

He sent a friend and collaborator, Jean Richer, down to a town called Cayenne in French Guiana on the north coast of South America. The town was 7,089 km away, which would provide a long baseline to do parallax-based observations.

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Sent by the French Academy of Sciences at the behest of astronomer Giovanni Cassini, part of their mission was to take a measurement that would reveal the distance between Earth and the sun--a ...

Cassini sent a friend and fellow astronomer, Jean Richer, to French Guiana and they both took the position of Mars at the same time from different sides of the world, nearly 12,000 km distance. Mars' distance at closest pass is about 54 million km in distance, so the variation in angle from one side of the Earth to the other is a ratio of 1 to ...

Calculate sunrise, sunset, solar noon, day length, solar eclipse, shadow length and twilight for Cayenne, French Guiana Online interactive map with sun movement, sun location and get ...

electrical power. The main focus of this study is to determine the solar energy potential in French Guiana using the Kernel density estimation. The knowledge of surface solar irradiance from satellite sensor may be obtained using atmospheric or empirical models that link satellite reflectance to surface solar irradiance (SSI).

To measure the distance to the Sun, Cassini had first to determine the distance to Mars, which passes to its nearest point of the Earth during the opposition of September 1672. He dispatched Jean Richer (1630-1696) to Cayenne in French Guiana to accurately record the position of Mars at the same time as Jean Picard (1620-1682) and himself in Paris.

In 1672, when Mars was in opposition, Giovanni Domenico Cassini (1625-1712) and Jean Richer (1630?-1696) calculated a value for the distance to the Sun based on their observations of Mars from Paris and Cayenne in French Guiana.

Calculate sunrise, sunset, solar noon, day length, solar eclipse, shadow length and twilight for Cayenne, French Guiana Online interactive map with sun movement, sun location and get monthly sun data for Cayenne, French Guiana

We are now free to calculate the mass of any object which has a satellite (if we know it's period and distance)
This includes the Sun (by looking at any of the planets) Earth (by looking at the moon) or Jupiter (by looking at it's moons).

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