

Jupiter and Saturn cheek-to-cheek in rare celestial dance

December 21 2020, by Juliette Collen

THE GREAT CONJUNCTION

Jupiter and Saturn reach the closest distance between each other on Dec 21

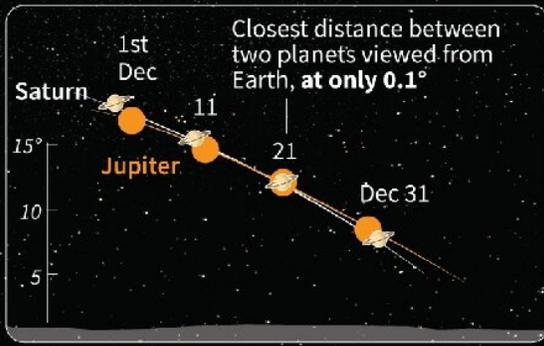
- ✕ A rare astronomical event which happens every 20 years
- ✕ Last time the planets were this close was in 1623
- ✕ The next time this happens will be 2080



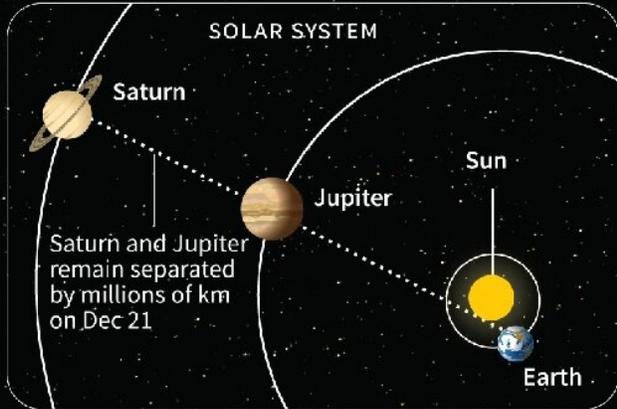
JUPITER
Largest planet in the solar system with an orbital period (time to orbit the Sun) of 12 years



SATURN
An orbital period of 29.65 years



Closest distance between two planets viewed from Earth, at only **0.1°**



SOLAR SYSTEM

Saturn and Jupiter remain separated by millions of km on Dec 21

Source: NASA AFP

Graphic explaining the great conjunction of Jupiter and Saturn

The solar system's two biggest planets, Jupiter and Saturn, came within planetary kissing range in Monday's evening sky, an intimacy that will not occur again until 2080.

This "great conjunction", as it is known to astronomers, occurred fortuitously on the winter solstice for those in the Northern Hemisphere and the beginning of summer in the global south.

The two planets were, in fact, more than 730 million kilometres (400 million miles) apart. But because of their alignment in relation to Earth, they appeared to be closer to each other than at any time in almost 400 years.

Optimal "conjunction" took place at 1822 GMT.

The best viewing conditions on Monday were in clear skies and close to the Equator, while people in Western Europe and along a vast swathe of Africa had to train their sight to the southwest.

But hundreds of space fans also gathered in Kolkata to watch—through a telescope at a technology museum in the city, or from surrounding rooftops and open areas.

And in Kuwait, astrophotographers travelled into the desert west of Kuwait City to capture the once-in-a-lifetime event.

Looking with a telescope or even a good pair of binoculars, the two gas giants were separated by no more than a fifth of the diameter of a full

moon.



People stand in a queue to see a "great conjunction" of Jupiter and Saturn, in Kolkata, India on December 21, 2020



Kuwaiti astrophotographers follow the great conjunction between Jupiter and Saturn in al-Salmi district, west of Kuwait City, on December 21, 2020

But with the naked eye, they would merge into a "highly luminous" double planet, said Florent Deleflie from the Paris Observatory.

"The Grand Conjunction refers to the period when two planets have relatively similar positions in relation to Earth," said Deleflie.

"With a small instrument—even a small pair of binoculars—people can see Jupiter's equatorial bands and its main satellites and Saturn's rings."

The last time Jupiter and Saturn nuzzled up this close was in 1623, but weather conditions in regions where the reunion could be seen blocked

the view.

Visibility was apparently better the time before that during the Middle Ages, on March 4, 1226 to be precise.



A picture taken on December 21, 2020, in al-Salmi district, west of Kuwait City, shows the great conjunction of Jupiter and Saturn

Jupiter, which is the larger planet, takes 12 years to revolve around the sun, while Saturn takes 29 years.

Every 20 years or so, they appear to observers on Earth to come closer to each other.

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