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Hybrid solar eclipse on April 20

The eclipse will be visible in East and South-East Asia, Singapore, Indonesia, Philippines, Australia, among other countries, but will not be visible in India

April 19, 2023 08:59 pm | Updated April 20, 2023 02:32 pm IST - Bengaluru:



A rare hybrid solar eclipse is observed at Jakarta Planetarium in Jakarta, Indonesia, April 20, 2023. | Photo Credit: Reuters





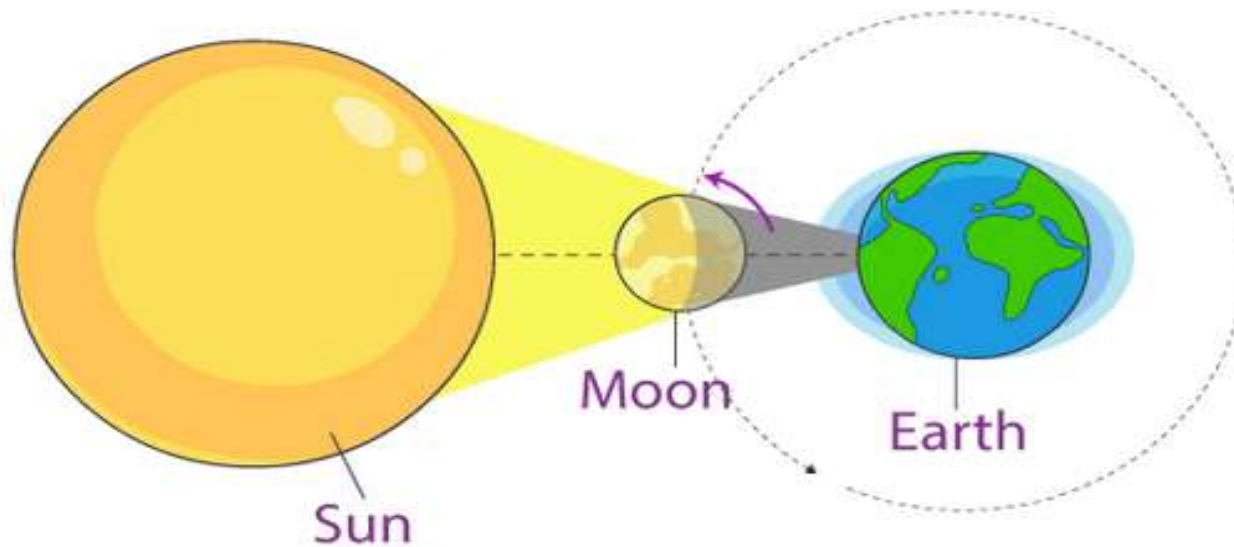
- A hybrid solar eclipse took place on April 20 lasting about 5 hours and 25 minutes.
- It was visible in East and South-East Asia, Singapore, Indonesia, Philippines, Australia, among other countries, but not visible in India.





Solar Eclipse

- occurs when the **moon comes in between the sun and the earth.**
- As a result, the **moon blocks the light of the sun** from reaching the earth's surface and **casts a shadow on it.**
- We can observe **up to 5 solar eclipses per year.**



Solar Eclipse





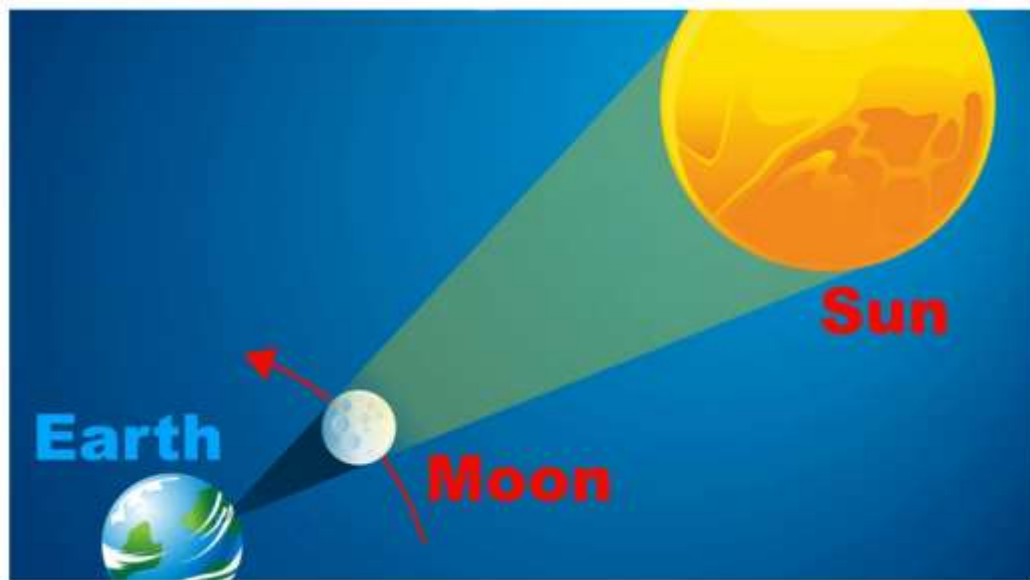
- What are the different types of solar eclipse?
- There are four types of solar eclipse:
- Total eclipse, Annular eclipse, Partial eclipse and Hybrid eclipse.





○ Total Eclipse

- When the sun is completely covered by the moon.
- The sky becomes so dark that it appears to be night.
- Only a small area of the earth can witness it.
- occur when the New Moon comes between the Sun and Earth and casts the darkest part of its shadow, the umbra,



PARTIAL SOLAR ECLIPSE



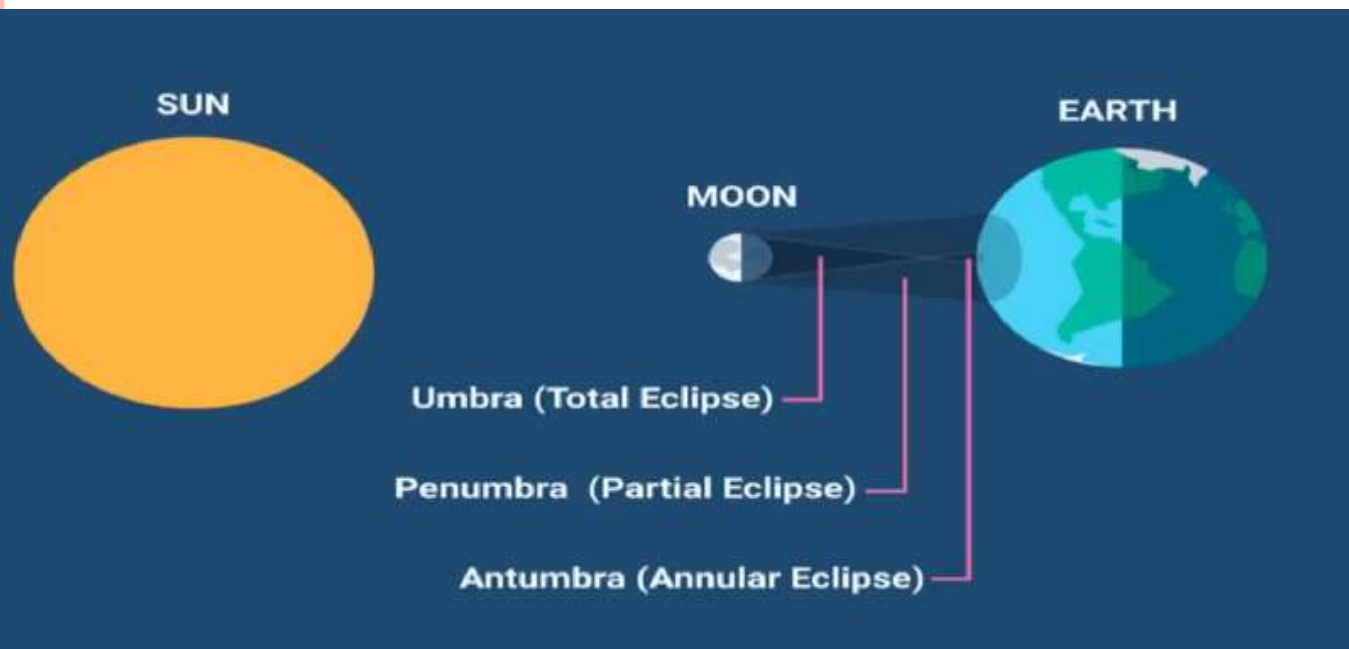
- occurs when the Moon passes between the Earth and the Sun but is not perfectly aligned.
- Hence, only a part of the Sun appears covered.





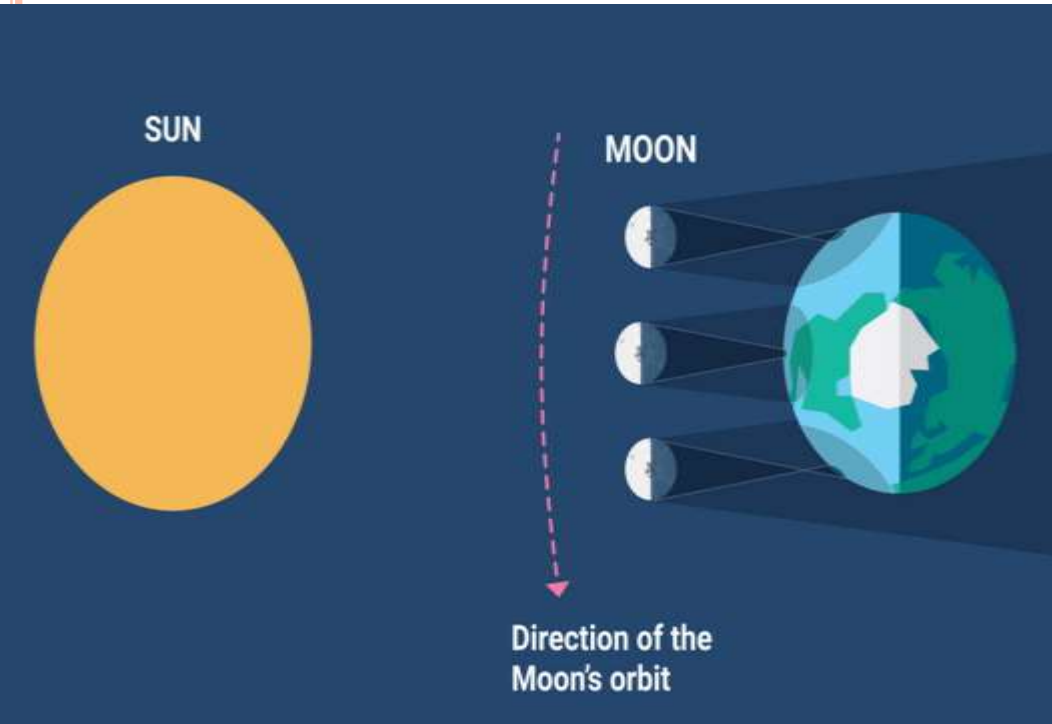
○ Annular Eclipse

- happens when the **Moon passes between the Sun and Earth**, but is **at its farthest point from Earth**.
- So it **appears smaller than the Sun** and **does not completely cover the Sun**.





Hybrid Solar Eclipse:



- Because **Earth's surface is curved**,
- sometimes an **eclipse can shift between annular and Total eclipse** as the **Moon's shadow** moves across the globe.



Partial
eclipse



Annular
eclipse

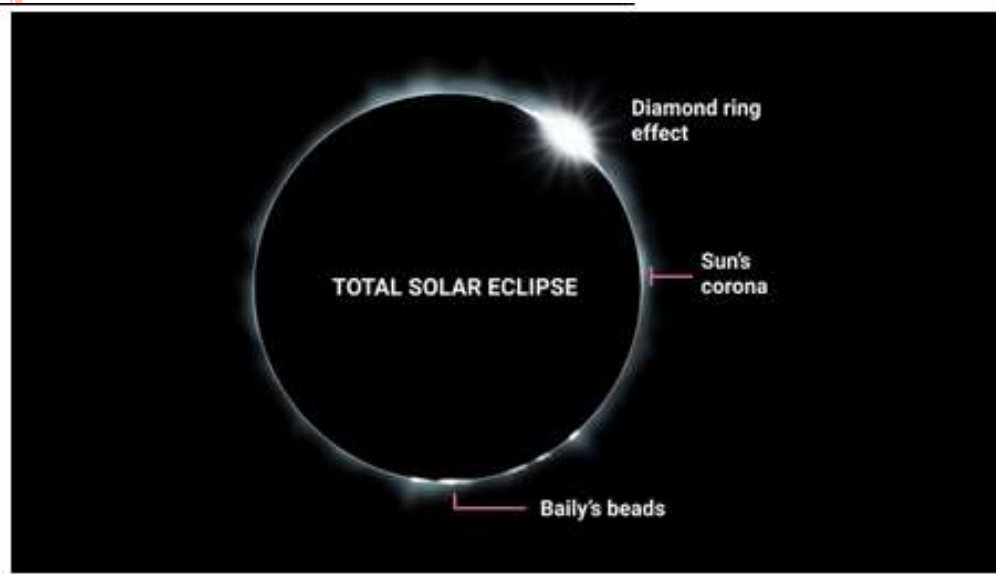


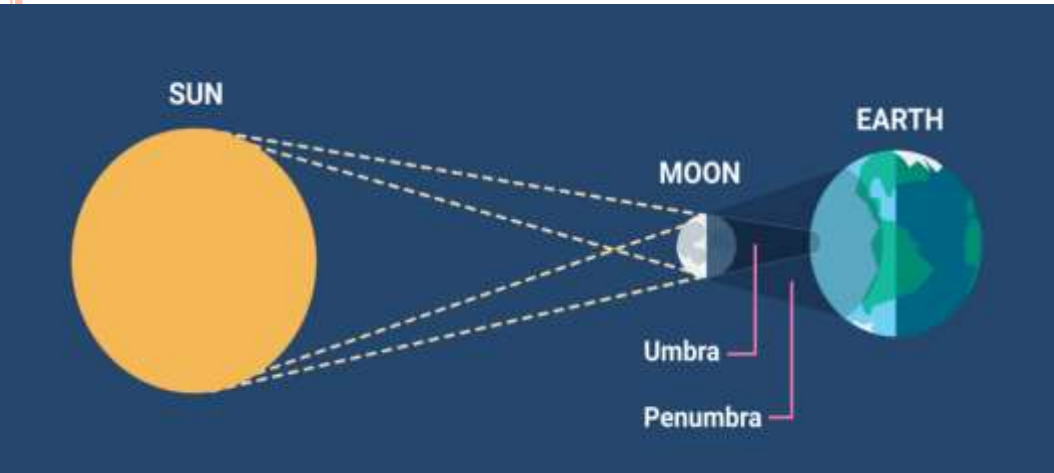
Total
eclipse





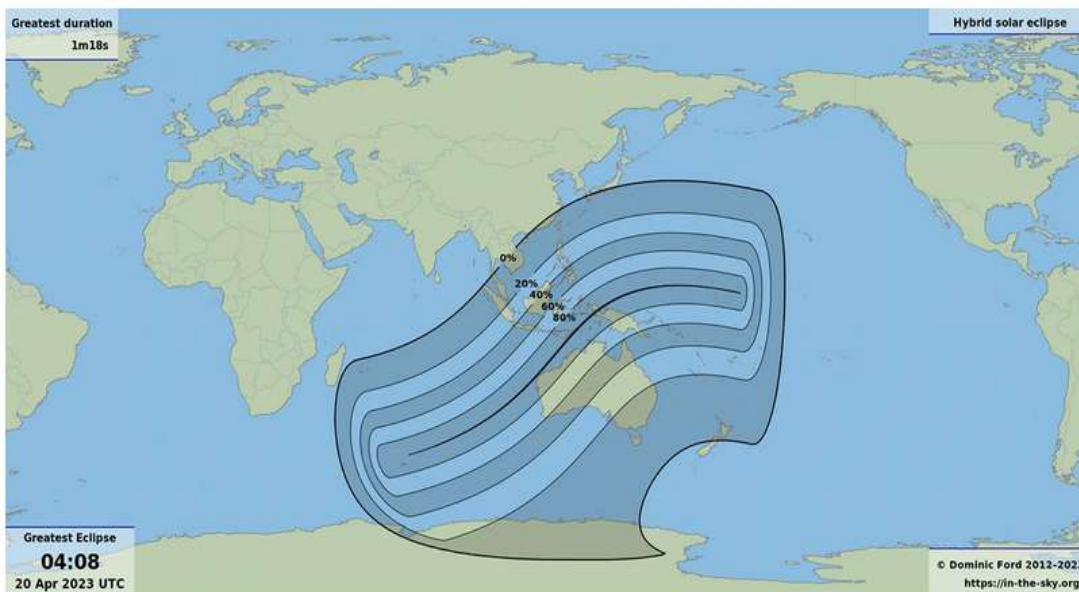
- The hybrid eclipse is called a Ningaloo eclipse because it appeared either as a total eclipse or an annular eclipse depending on where and when you viewed it.
- It is named “Ningaloo” after the western coast of Australia because that is was best visible.





- Why will the eclipse only be visible in small parts of the world?

- the Moon's “umbral” shadow, which is only about 40 kilometres wide.



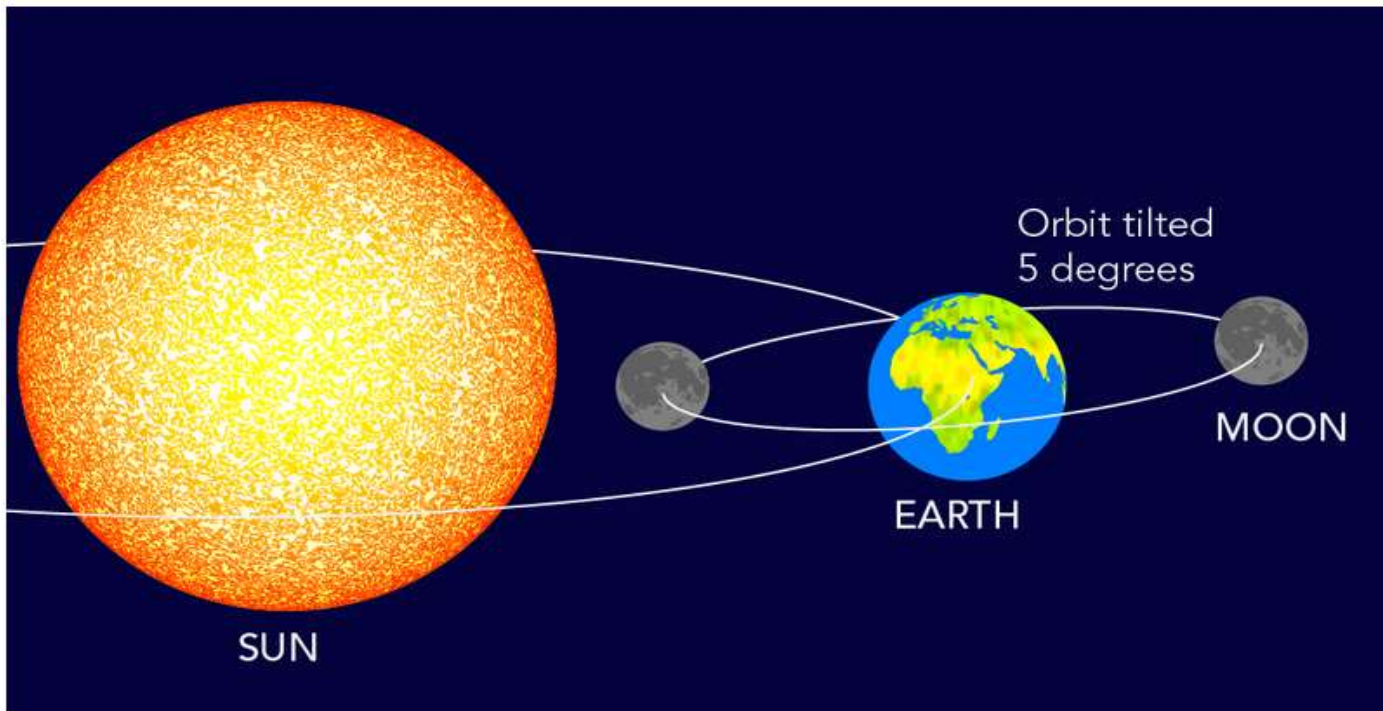
- This means that the path of the total eclipse will only travel a very narrow path on the map.





Why are solar eclipses relatively rare?

- The Moon's orbit is tilted about 5 degrees relative to the Earth's orbit around the Sun.
- This means that the Sun, the Earth and the Moon only align with the right conditions about once every 18 months to produce a solar eclipse.



The solar eclipse as seen from Indonesia

The solar eclipse is pictured here, as seen from West Sumatra in Indonesia.



The eclipse in Indonesia

Here is a partial eclipse through the clouded skies, as seen from Jakarta, Indonesia.





The Australian 
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Darkness has descended on the remote Western Australia town of Exmouth as a total solar eclipse formed. Read more: bit.ly/3Aeq16c #SolarEclipse2023





- the Annular eclipse from Australia



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