

Hybrid Solar Eclipse

April 7, 2023 • vajiramandravi.com



About Hybrid Solar Eclipse:

- **What it is?** A hybrid eclipse is a type of **solar eclipse that looks like an annular solar eclipse or a total solar eclipse**, depending on the observer's location along the central eclipse path.
- During a hybrid solar eclipse, the Earth's curvature brings some sections of the eclipse path into the **Moon's umbra**, the darkest part of its shadow that creates total solar eclipses, while other areas remain outside the umbra's reach, causing an annular eclipse.

What is a total solar eclipse?

- It happens when **the Moon passes between the Earth and Sun** while completely blocking the face of the Sun.
- It will be visible to the people located in the centre of the Moon's shadow when it hits Earth.
- If the weather conditions are right, people in the path of the solar eclipse will be able to see the Sun's corona (outer atmosphere).

What is an annular eclipse?

- It happens when **the moon is farthest from the Earth**, which is why it seems smaller.
- In this type of eclipse, the **moon does not block the sun completely** but looks like a “dark disk on top of a larger sun-coloured disk” forming a “ring of fire.”

What is an eclipse?

- It happens when the **moon, while orbiting the Earth, comes in between the sun and the Earth**, due to which the moon blocks the sun’s light from reaching the Earth, causing an eclipse of the sun or a solar eclipse.

Q1) What is Penumbra?

It is the portion of the Moon’s shadow in which only part of the Sun is covered. An observer standing in the penumbra sees only a partial solar eclipse.

Source: [Ningaloo ‘hybrid’ solar eclipse on April 20: What is it and Where to watch](#)

Source: <https://vajiramandravi.com/current-affairs/hybrid-solar-eclipse/>

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