

Celestial Calendar 2024



Hello Astronomers!

Space India presents this yearly calendar covering all the major astronomical events that one can witness from the Indian subcontinent. Astronomers all around the world can also record and capture these events along with beautiful astrophotographs. You can also capture and share your photos with us.

For details of each event such as which direction to see, location & coordinates in the sky, timings as per your latitude can be taken from various astronomical apps and softwares. We suggest you use the app/software STELLARIUM. It is available across all platforms android/iOS/Windows/MAC.

Major Astronomical Events Key



Conjunction

When the Moon or a planet appears especially close either to another planet or to a bright star. Also used when, Moon or Planet sometimes is close to bright Deep sky objects.



Eclipse

An event that occurs when the shadow of a planet or moon falls upon a second body.



Flongation

The angular distance the Moon or a planet is from the Sun. The inner planets of Mercury and Venus are best seen when at maximum Elongation, and thus are highest above the horizon before sunrise or after sunset.



Equinox

The two times each year, near March 20th and September 22nd, when the Sun is directly overhead at noon as seen from Earth's equator. On an equinox date, day and night are of equal length.



Meteor Shower

An increase in meteor activity at certain times of the year due to Earth passing through a stream of particles along a comet's orbit around the Sun.



Occultation

When the Moon or a planet passes directly in front of a more distant planet or star.



Opposition

When a planet or asteroid is opposite the Sun in the sky. At such times, the object is visible all night — rising at sunset and setting at sunrise.



Solstic

The two times each year, around June 20th and December 21st, when the Sun is farthest north or south in the sky. At the summer solstice, the day is longest and the night is shortest, and vice versa at the winter solstice.

*Definitions are taken from Sky & Telescope for easier understanding



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