



The Astrophile Newsletter

One Fond of Starlore: An Amateur Astronomer

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Partial Lunar Eclipse on Nov 19th



The eclipse will be Penumbral only as seen from India

The Partial Lunar Eclipse of November 19th 2021 is going to be a disappointing one for Indians. The eclipse will be towards its last stage as it will be first seen from within the Indian borders in the East. The last phase will be Penumbral stage.

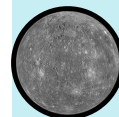
Penumbral stage is when the Moon is passing through the penumbral or fainter shadow of Earth. The partial stages will be visible from North America, Eastern Russia, East Asia and about 70% of China. Partial eclipse is the phase when part of the Moon passes through the umbral or dark shadow of Earth and is depicted as in the picture above.

Next Total Lunar eclipse from India will be on **September 07, 2025**

Moon phases and dates

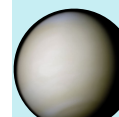
Important phases and dates for Moon to plan your observation

05/11/21	New Moon	02:44	
11/11/21	First Quarter	18:15	
19/11/21	Full Moon	14:27	Beaver Moon
27/11/21	Third Quarter	17:57	



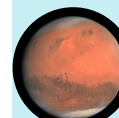
Mercury

Mercury is in the morning skies, rising an hour before the Sun. It will be best seen on October 25 as it will at its farthest distance from the Sun.



Venus

Venus is shining bright in the evening skies, and setting a good measure after Sunset. Currently showing half phase and will reduce as time goes by.



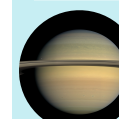
Mars

The Red Planet is on the other side of Sun and hence won't be visible until the end of November when it will rise a little after Sunset..



Jupiter

Jupiter is rising early in the evening and shining bright in the night sky offering a great views of the planet system to the observers.



Saturn

The ringed planet is setting late in the evening shining bright in the sky offering a great views of the planet system to the observers.

Celestial events for the month of November



November month will witness spectacular celestial events and it will be a remarkable month for stargazing.

Nov.05 - Taurid Meteor Shower

Nov.05 - Uranus at Opposition

Nov.09 - Comet 67P at brightest in the sky at 9.9 Mag.

Nov.17 - Leonids Meteor Shower

Nov.19 - Partial Lunar Eclipse visible from NE India

Nov.19 - Venus a third of degree away from Nunki

Nov.27 - Astrophile Expedition team (AstroNomadLife) organising a StarParty for individuals.

Team Astrophile is ready for in-school camps.



Astrophile Education is happy to announce that we are now all vaccinated and geared up for in-school activities post COVID-19 pandemic.

The pandemic has pushed us away from “person-to-person” communication and also affected the learnings for students. As the schools have started, the team is all set for supporting and helping schools with all kind of educational programs within the school premises and/or camps involving travel.

Our first priority is students safety and hence we have got our team fully vaccinated first. This will help us keeping your students safe while the immerse in fun and learning of the cosmos without worrying about the virus or its effects.

CITIZEN SCIENCE PROJECT FOR PRESERVING NIGHT SKIES

Astrophile Education is committed to create environment for everyone to be involved in science and the best way forward to via citizen science projects. The students and the grown ups are all facing a severe challenge to view the stars from their cities due to increasing light pollution.

The development of the city, with more flyovers and commercial complexes, wider roads, and growing cities has caused major light pollution. With air pollution also increasing, the light pollution will become severe and hence we need to quantify.

The project will encourage students and grown ups to participate by evaluating our skies through a systematic manner. The data collected will be evaluated for quantification of light pollution in the city. This will help us understand the amount of light pollution and then in future how the changes have been taking place. If you have an idea to reduce the light pollution, we would like to incorporate in our studies of the sky and hence we would like to reach out to the government for implementation of the ideas.

This is not a short term project and requires commitment and dedication from the observers and contributors. The data needs to be collected on a regular basis and also should be accurate in terms of the sky conditions. This will enable us to fight the problem together and win our skies back. Visit the link: <https://astro-phile.com/citizen-science/> for more details.

