



# The Astrophile Newsletter

**One Fond of Starlore: An Amateur Astronomer**

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ASTROPHILE EDUCATION SERVICES/SNEH KESARI

## Astrophile enjoyed stunning eclipse views

### Astrophilers enjoyed stunning views of eclipse from Suratgarh

On June 21st 2020, A team of Astrophilers captured the beauty and glory of the last eclipse of the decade in India, from Suratgarh in Rajasthan. The team which arrived at the venue 3 days prior to the event had a pleasant experience during the travel and stay in the times of COVID-19 Pandemic.

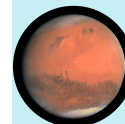
The eclipse lasted about 3hr 31 minutes and we made significant observations during the eclipse. Also the event was webcasted for all the student and people who could not travel for the eclipse. A detailed report of the same can be read here: <http://astro-phile.com/2020/06/29/an-eclipse-of-lifetime-solstice-eclipse-2020/>

Astrophile will aim for the Annular Eclipse of June 10, 2021 from Canada and schools are welcome to join us in the scientific expedition.

## Moon phases and dates

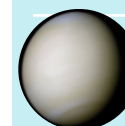
### Important phases and dates for Moon to plan your observation

05/07/20	Full Moon	10:14 Buck Moon
13/07/20	Third Quarter	04:59
20/07/20	New Moon	23:02
27/07/20	First Quarter	18:02



### Mars

The red planet is shining bright in the late night skies, rising late around midnight, the planet is showing great features these days with the clear skies and lack of sand storm on Mars.



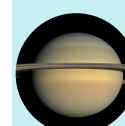
### Venus

The sister planet is now visible in the morning skies and can be seen early in the morning just before the sunrise. Right now it is showing crescent phase and is very bright.



### Jupiter

Jupiter is now rising just after sunset and will be visible all night long, The planet will be at opposition on July 13th and will be in rare conjunction with Saturn in December 21st.



### Saturn

The ringed planet will be shining bright all night long as it will be at opposition on July 20th and will be in rare conjunction with Jupiter on December 21st.

## ISS EarthKAM to start from July 14th

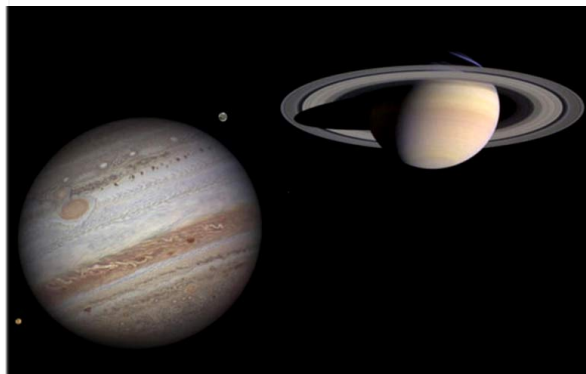


The ISS EarthKAM, a project started by NASA for middle school students and participation from over 130 countries with over 70 million students will be conducted by Astrophile in “Online” mode for the schools in India.

The project allows students to capture amazing pictures of Earth in great details by commanding the camera on-board the ISS. The students then download the images for future analysis of the place. The analysis can reveal important information like large scale migration, erosion, changes in river flow, glacier size and much more.

The participation to this project help students understand the concepts of geographical features better by analysing real and latest images of Earth rather than old images in the text book. Contact us for more details.

## Jupiter and Saturn at opposition this month.



Two largest “Gas Giants” Jupiter and Saturn will be at opposition this month, Jupiter will be at opposition on July 13th while Saturn on July 20th. The two planets are on their way to a rare celestial alignment which happens every 20 years where they both come extremely close to each other in sky.

Opposition is a celestial event when an exterior planet comes in straight line with Sun and Earth. The planet is the brightest and closest to Earth at this time. Also the planet is available to be seen from sunset to sunrise.

Inferior planets when come in straight line, are not visible during the night but day time. Sometimes the inferior planets are visible as a tiny dot in front of the Sun and the event is called as Transit.

## ASTRONOMY LECTURE SERIES WITH ASTROPHILE EDUCATION

Astrophile Education is committed to promote the knowledge and learning of astronomy even during these tough times of COVID-19 pandemic. The effort is being made to bring together some of the brightest minds in the country on our youtube platform so that we can educate our kids while staying home and be safe.

We will be resuming our online educational lecture series soon with more interesting topics and global renowned presenters. We are also in the process of making our classes online and choose a wider range of topics to educate the students.

Astrophile will also launch investigative project training online using our youtube channel where the students can watch the video and get trained to participate in the projects. The registration details for the same will be shared from time to time and a small registration fee depending upon the project will be charged from the students. The school can participate or forward the information to students so that they can participate directly in these programs. Some programs will have certificates to be distributed after successful completion.

We also make an effort and put up more educational content so that the students can benefit from the same as and when available. Your suggestions on topic of interest are welcome and appreciated. Our channel link is: [www.youtube.com/AstrophileEducation](https://www.youtube.com/AstrophileEducation).