



ASTROPHILE EDUCATION SERVICES

Media invitation
&
Press Release

Press Release

Date: 17/04/2020

Annular Solar Eclipse of June 21, 2020

An Annular Solar Eclipse will be observed in India on June 21, 2020 which is a very special and a rare kind of eclipse. The next eclipse will be visible in India on May 21, 2031 and hence we shall observe this one.

The next annular solar eclipse, which is happening on June 21, 2020 will be visible from India from 10:12:14 Am till 13:56:05 with a total duration of 3 hour 26 minute and 54 second. The eclipse will begin in India at the India- Pakistan border in the state of Rajasthan. The first Indian village in the part will be Gharsana. First major town in the path will be Suratgarh. The eclipse will pass through 5 states namely Rajasthan, Punjab, Haryana, Uttar Pradesh and Uttarakhand. The eclipse will end in India at the eastern border with Tibet where it will head towards Mansarovar Lake. Nanda Devi National park will be the last prominent area in India to be submerged in the shadow of the Moon.

Astrophile Education Services (AES) scientific team is expected to visit a small town called Suratgarh in Ganganagar district of Rajasthan state to view the eclipse. The team is expected to bring their telescopes and other equipment to carry our research work. The team is also expected to webcast the whole event so that other people who could not travel to see the eclipse can enjoy the views online. The webcast is expected to have over 2 million visitors from India and also the same from other parts of the world.

An eclipse of the Sun occurs when the Earth, Sun and Moon all align in a straight line where the observer on Earth see the Moon covering the light of the Sun. This casts a shadow of Moon on Earth. The shadow casted on Earth are of two kinds: Umbra and Penumbra. If you are standing under the umbral shadow, then you see central eclipse but if you are standing under the penumbral eclipse, then you will experience the partial eclipse of the Sun.

During the June eclipse, the Sun and the Moon which are of same apparent size in the sky will be close to their farthest point from Earth as a result, both will appear smaller. The Moon however will appear slightly smaller than the Sun and as a result the Moon will not be able to cover the entire Sun. The Sun will be visible on the outside of the Moon which will appear as a ring. It will be very similar to the Annular Soar Eclipse of December 26, 2019, visible from Southern India. However this time the ring will be very thin.

This eclipse is very interesting for many reasons. Some of them are:

- ★ This is the last eclipse of this decade, visible from India.
- ★ Next eclipse only after 11 years
- ★ The last eclipse of its kind to be seen by anyone alive today. Next two eclipses of this special kind will be visible in 2052 and 2086 from the Atlantic and Pacific oceans respectively.
- ★ India is best suited to observe the eclipse in terms of location.
- ★ The eclipse will happen on the day of Summer Solstice which means the ZERO shadow on tropic of cancer.
- ★ Expected to have Bailey's Bead and Corona visible at the same time.

“Due to the COVID-19 pandemic outbreak, we are keeping a close eye on the situation. If the conditions are conducive for us to travel, then only we will travel for the eclipse and would also like to have you with us in this splendid observation.”

Our lead astronomer and First Astrophile'r, **Mr. Sneh Kesari** will be happy to interact with you if you may have a query to make. He can be reached out at **+91-9560338860** or astrophile.edu@icloud.com.



ASTROPHILE EDUCATION SERVICES

Media invitation
&
Press Release

About ASTROPHILE Education Services:

Astrophile Education Services is a young, dynamic company churning out innovative and exciting hands-on astronomy education and astro-tourism services. Science and in particular, Astronomy intrigues the minds of all. We are an ambitious team driven by highly skilled astronomers, educationists and tourism professionals constantly striving towards bringing the best concepts of the study of the universe to the public.

Astrophile nurtures a young league of students and citizen scientists who aspire to learn, grow and follow in the footsteps of 21st century's noted Indian astronomers Aryabhata, S. Chandrashekhar, and the contemporary astronauts Kalpana Chawla and Sunita William etc. These young citizens of India will pave the path to a scientifically evolved world with their rational thinking and quest to attain knowledge. More information about Astrophile India can be found here: www.astro-phile.com

For future events and updates in the field of astronomy and stargazing, please write to us at astrophileeducation@gmail.com

For more details, kindly visit the links below:

Blog on Solstice Eclipse June 2020 - <https://astro-phile.com/2020/02/16/solstice-eclipse-2020/>

Youtube video about the eclipse: <https://youtu.be/HN7lhhbba6I>

Eclipse timings for across India:

During the path of annularity: <https://astrophilecom.files.wordpress.com/2020/02/central-contact-timings-for-ase2020.pdf>

Rest of India: <https://astrophilecom.files.wordpress.com/2020/02/contact-times-for-ase2020.pdf>

Follow us on social media for updates:

Twitter: <https://twitter.com/astrophileedu>

<https://twitter.com/snehkesari>

Facebook: <https://www.facebook.com/astrophileeducation/>