

The last lunar eclipse of the year – Total Lunar Eclipse tomorrow

New Delhi, 7 October: The last time we saw a total lunar eclipse in India was in December 2011 when it was seen in full glory all across India. Now the time has come once again to view another Total Lunar eclipse but with a difference!

The last **total lunar eclipse** of the year will take place on 8 October, 2014. It is the second of two total lunar eclipses in 2014, and the second in a *tetrad* (four total lunar eclipses in series). Other eclipses in the tetrad are those of April 15, 2014, April 4, 2015, and September 28, 2015.

The finale of the eclipse will not be seen in India as moon would be in penumbral eclipse at the time of rise. We, in Delhi, will be able to see only the penumbral eclipse and that too while the moon is low on the horizon.

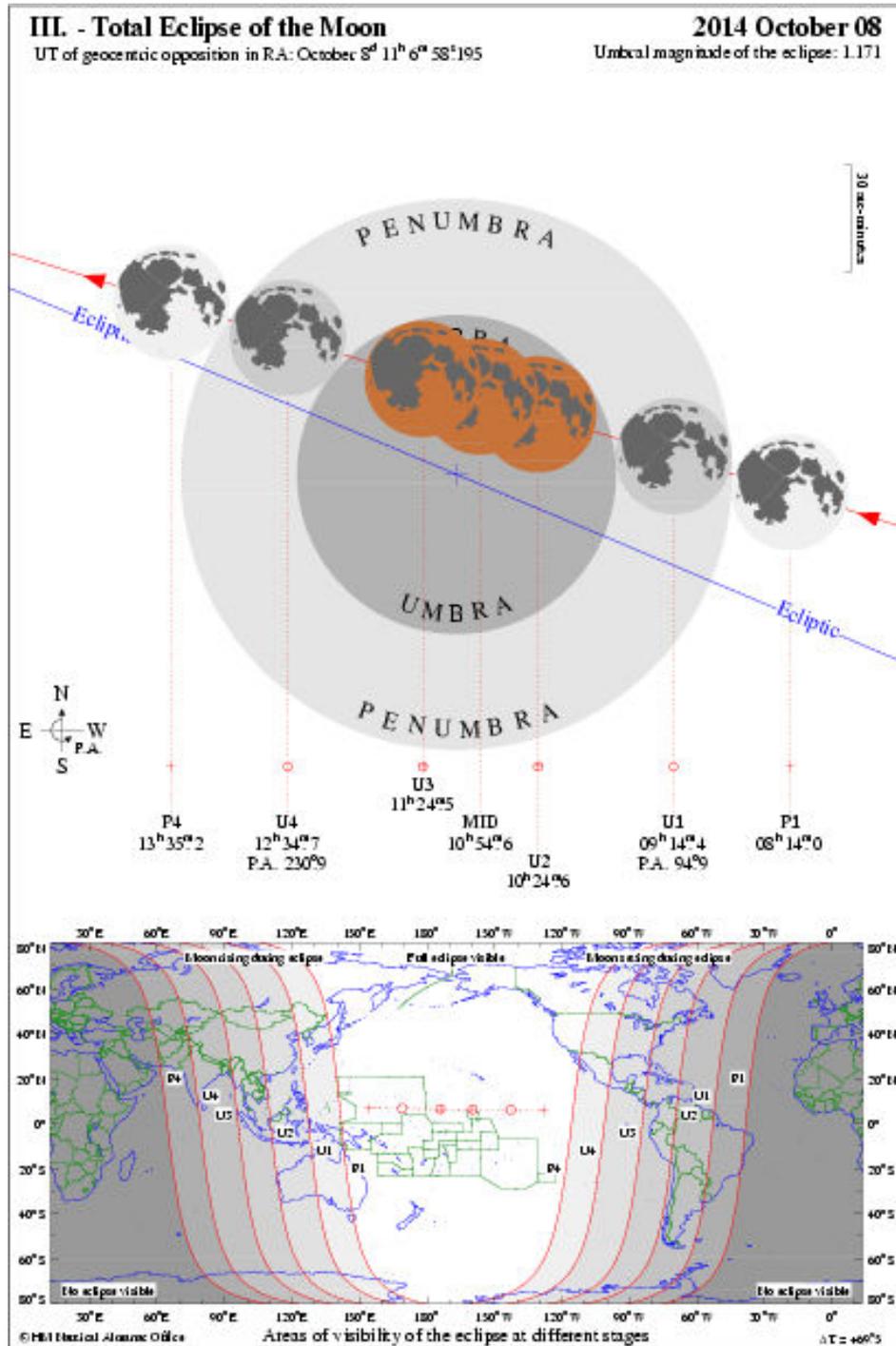
The entire eclipse on 8 October will be visible from the Pacific Ocean and regions immediately bordering it. The northwestern 1/3 of North America also witnesses all stages. Farther east, various phases occur after moonset. For instance, the Moon sets during totality from eastern Canada and the USA. Observers in South America also experience moonset during the early stages of the eclipse. All phases are visible from New Zealand and eastern 1/4 of Australia - the Moon rises during the early partial phases from Australia's west coast. Most of Japan and easternmost Asia catch the entire eclipse as well. Farther west in Asia, various stages of the eclipse occur before moonrise. None of the eclipse is visible from Europe, Africa, and the Middle East.

Timings of the Eclipse:

Event	UTC Time	Time in New Delhi*	Visible in New Delhi
Penumbral Eclipse begins horizon	8 Oct, 08:17	8 Oct, 13:47	No, below
Partial Eclipse begins horizon	8 Oct, 09:18	8 Oct, 14:48	No, below
Full Eclipse begins horizon	8 Oct, 10:27	8 Oct, 15:57	No, below
Maximum Eclipse horizon	8 Oct, 10:55	8 Oct, 16:25	No, below
Full Eclipse ends horizon	8 Oct, 11:22	8 Oct, 16:52	No, below
Partial Eclipse ends	8 Oct, 12:32	8 Oct, 18:02	Yes
Penumbral Eclipse ends	8 Oct, 13:32	8 Oct, 19:02	Yes

* The moon is below the horizon in New Delhi some of the time, so that part of the eclipse is not visible.

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Total Lunar Eclipse – 2011

On 10 December, 2011, the Total Lunar Eclipse brought to light a spectacular view of the moon. This celestial event was clearly visible from India and Delhiites were lucky enough to get an opportunity to observe the moon in its different phases on this full moon night. SPACE with some of the esteemed scientists had conducted an observation at heritage sites in Delhi like Shanti Stupa, Millenium Park and India Gate.

About Lunar Eclipse

An eclipse of the moon occurs when the Earth is in a direct line between the sun and the moon. The moon does not have any light of its own; instead, it reflects the sun's light. During a lunar eclipse, the moon is in the Earth's shadow. It will often look dim and sometimes copper or orange in color. The lighter part of Earth's shadow is call the "penumbra" and the totally dark part is called the "umbra". If you see a chart that says the lunar eclipse is going to be penumbral, this means that the moon will only pass through the lighter part of Earth's shadow. A partial lunar eclipse occurs when only part of the moon passes through the umbra, or darkest part, of the Earth's shadow. A penumbral lunar eclipse occurs when moon passes through penumbra, the lighter part of the shadow.



Total Lunar Eclipse



Partial Lunar eclipse



Penumbral Lunar eclipse

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