

2010 ECLIPSES

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There will be four eclipses, two solar (of the sun) and two lunar (of the moon) during the year 2010. One solar eclipse will be visible in Pakistan. The details of the eclipses are as follows:

1. Annular solar eclipse on Friday, the 15th January, 2010 (Visible in Pakistan)

An annular eclipse will be visible from Central Africa, the Indian Ocean and Eastern Asia. A partial eclipse will be seen from Eastern Europe, most of Africa, Asia and Indonesia. It will be visible from Pakistan from 12:30 PST to 13:00 PST.

Eclipse begins	09:05 PST
Annular phase begins	10:17 PST
Maximum	12:06 PST
Annular end	13:56 PST
Eclipse end	15:08 PST
Maximum annularity 0.919	

2. Partial lunar eclipse on Saturday, the 26th June, 2010 (Not visible in Pakistan)

It is visible from much of the Americas, the Pacific and Eastern Asia. The moon's contact times with Earth's Shadows are listed below:

Penumbral eclipse begins	13:57 PST
Partial eclipse begins	15:16 PST
Greatest eclipse	16:38 PST
Partial eclipse ends	17:59 PST
Penumbral eclipse ends	19:19 PST
Magnitude of greatest eclipse 0.5368.	

3. Total solar eclipse on Sunday, 11th July, 2010 (Not visible in Pakistan)

Total eclipse will be visible from South Pacific Ocean, Chile and Argentina. Partial eclipse visible from South Pacific and South America.

Eclipse begins	22:10 (11 th July) PST
Total begins	23:16(11 th July) PST
Total ends	01:51 (12 th July) PST
Eclipse ends	02:57 (12 th July) PST
Magnitude of greatest eclipse 1.056	

4. Total lunar eclipse on Tuesday 21st December, 2010 (Not visible in Pakistan)

It is visible from Europe, West Africa, the Americas, the Pacific Ocean, Eastern Australia, the Philippines and Eastern and Northern Asia. The timings of the major eclipse phases are listed below:

Penumbral eclipse begins	10:29 PST
Partial eclipse begins	11:32 PST
Total eclipse begins	12:40 PST
Total eclipse ends	13:54 PST
Partial eclipse ends	15:02 PST
Penumbral eclipse ends	16:04PST
Magnitude of greatest eclipse 1.256	

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January 1, 2010

Source : www.pakmet.com.pk/cdpc/eclipses-2010.pdf