

Partial Solar Eclipse on June 1-2, 2011

Contact: Apoorva/ Aakanksha

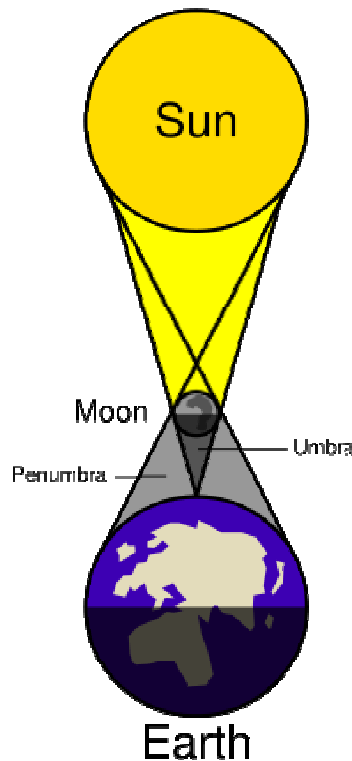
July 1-2, 2011

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For Immediate Release

The Month of June has two eclipses lined up for Earth, one partial solar and total lunar eclipse. Partial solar eclipse will not be visible from India as it is happening during early hours of 2nd June for us in India.



A solar eclipse occurs when the Moon passes between the Sun and the Earth, and the Moon fully or partially obscures the Sun as viewed from an Earth location. This can only happen during a new moon, when the Sun and Moon are in conjunction as seen from Earth. However, it needs a further requirement. The Moon's orbit around the Earth is inclined at an angle of around 5 degrees to the plane of the Earth's orbit around the Sun (the ecliptic), therefore during a new moon the Moon will usually pass above or below the Sun. A solar eclipse can occur only when the New Moon occurs close to one of the points (known as nodes) where the Moon's orbit crosses the ecliptic.

Diagram of a solar eclipse (not to scale)

Partial eclipse of the SUN, June 1, 2011

The eclipse will not be visible in INDIA

Area of visibility: The eclipse is visible from the region covering eastern Asia except southern Japan, northern Alaska, northern Canada, the northern tip of Scandinavia, Greenland and Iceland.

CIRCUMSTANCES OF THE ECLIPSE

	Universal Time	Indian Standard Time
Eclipse begins	1d 19h 25.3m	2d 00h 55.3m
Greatest Eclipse *	1d 21h 16.2m	2d 02h 46.2m
Eclipse ends	1d 23h 06.9m	2d 04h 36.9m

* Magnitude of the eclipse = 0.6014

For more details, see the special blog created by SPACE at <http://solareclipsesindia.blogspot.com>

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Partial Solar Eclipse of 2011 Jun 01

Ecliptic Conjunction = 21:03:42.8 TD (= 21:02:35.5 UT)

Greatest Eclipse = 21:17:18.4 TD (= 21:16:11.1 UT)

Eclipse Magnitude = 0.8011 Gamma = 1.2130

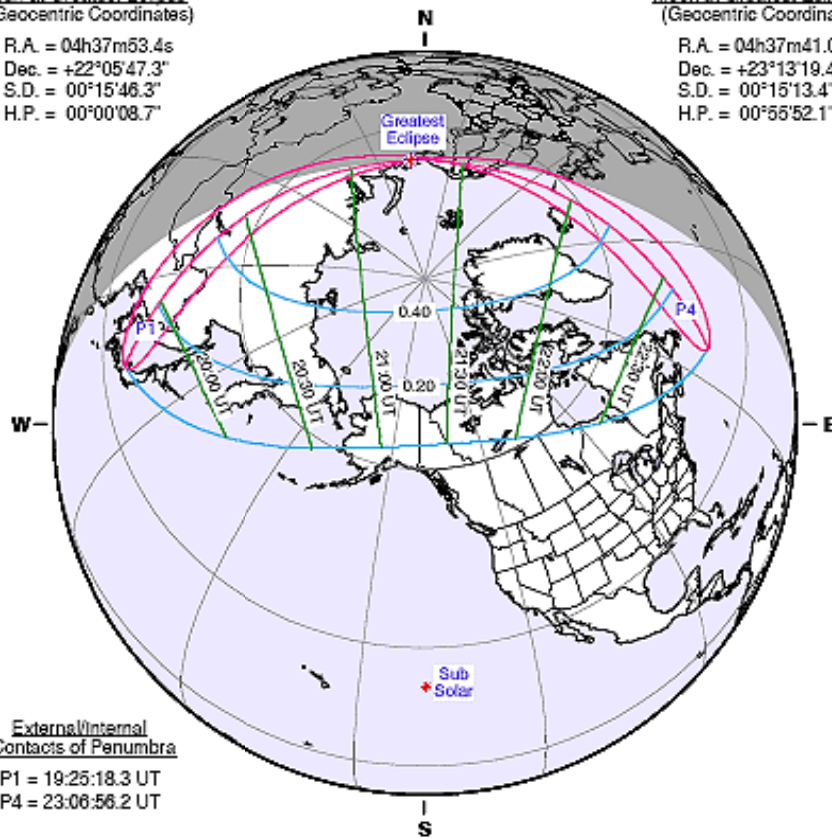
Saros Series = 118 Member = 68 of 72

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 04h37m53.4s
Dec. = +22°05'47.3"
S.D. = 00°15'46.3"
H.P. = 00°00'08.7"

Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 04h37m41.0s
Dec. = +23°13'19.4"
S.D. = 00°15'13.4"
H.P. = 00°55'52.1"

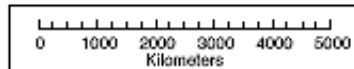


External/Internal
Contacts of Penumbra

P1 = 19:25:18.3 UT
P4 = 23:06:56.2 UT

Constants & Ephemeris

$\Delta T = 67.3$ s
 $k1 = 0.2724890$
 $k2 = 0.2722810$
 $\Delta b = 0.0''$ $\Delta l = 0.0''$
Eph. = VSOP87/ELP2000-85



F. Espenak, NASA's GSFC
eclipse.gsfc.nasa.gov/eclipse.html

Geocentric Libration
(Optical + Physical)

$l = -4.65^\circ$
 $b = -1.48^\circ$
 $c = -9.54^\circ$
Brown Lun. No. = 1094