

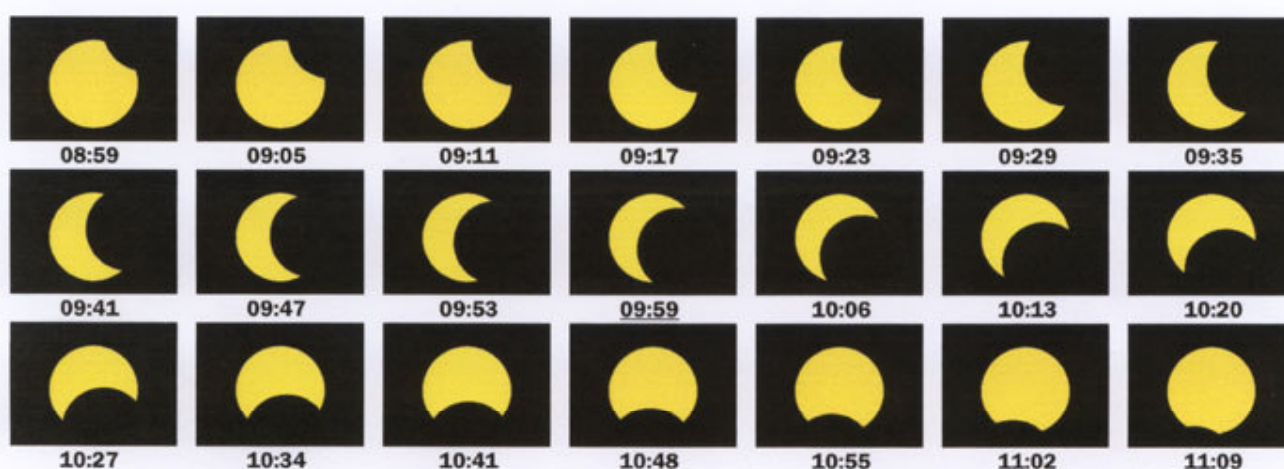
WOLVERHAMPTON ASTRONOMICAL SOCIETY

PARTIAL SOLAR ECLIPSE

MONDAY 3rd OCTOBER 2005

HIGHFIELDS SCHOOL, WOLVERHAMPTON

On Monday 3rd October 2005, there will be an annular solar eclipse. The annular phase is visible from Spain, Algeria, Libya, Sudan, and Kenya. The partial phase of this eclipse will be visible from Wolverhampton, and Wolverhampton Astronomical Society will be joining with Highfields School to observe this event. Details of the morning's events in chronological order are given below, with Times expressed in British Summer Time, (BST):



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PHENOMENON	DATE	TIME (BST)	ALTITUDE	AZIMUTH
Sunrise	Oct 3	07h 13m	- 0.8°	95.5°
First Contact	Oct 3	08h 49m	13.1°	115.1°
Maximum Eclipse	Oct 3	09h 59m	22.0°	130.8°
Last Contact	Oct 3	11h 16m	29.4°	150.6°
Maximum Magnitude	0.657	—	—	—
Astronomical Midday	Oct 3	12h 58m	33.3°	180.0°

The above prediction of the eclipse is correct for Highfields School, Wolverhampton. The images show a simulation of the various stages of the eclipse as it would appear in the sky through a filter. The maximum magnitude is the amount of the Sun's diameter hidden by the Moon, and not the obscuration, which refers to the total area of the Sun hidden by the Moon. So, from Highfields School, 65.7% of the Sun's diameter is hidden by the Moon at maximum eclipse, but the obscuration is somewhat less. The altitude gives the elevation of the Sun, (the horizon being 0°, and the zenith being 90°. The azimuth indicates where the Sun lies in the sky relative to the horizon. (North being 0°, east 90°, south 180°, and west 270°). It is a bearing if you like. So at any time, the Sun's position and elevation in the sky can be calculated.

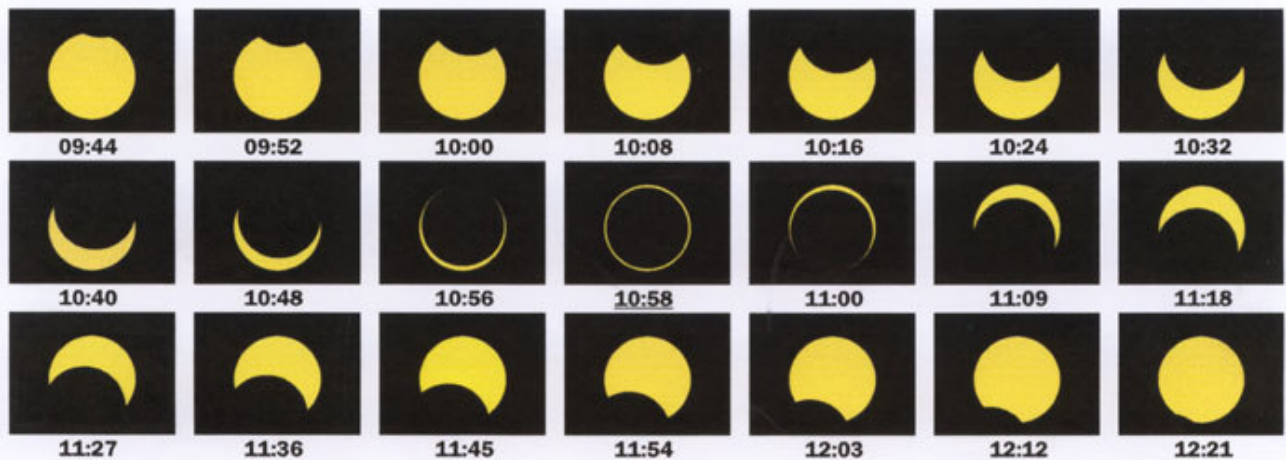
WOLVERHAMPTON ASTRONOMICAL SOCIETY

ANNULAR SOLAR ECLIPSE

MONDAY 3rd OCTOBER 2005

MADRID, SPAIN

On Monday 3rd October 2005, there will be an annular solar eclipse. The annular phase will be visible from Madrid, and details of the morning's events in chronological order are given below, with Times expressed in Central European Summer Time, CEST, which is one hour fast on BST:



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PHENOMENON	DATE	TIME (CEST)	ALTITUDE	AZIMUTH
Sunrise	Oct 3	08h 13m	- 0.8°	94.6°
First Contact	Oct 3	09h 40m	15.3°	109.2°
Second Contact	Oct 3	10h 56m	28.1°	124.1°
Maximum Eclipse	Oct 3	10h 58m	28.5°	124.6°
Third Contact	Oct 3	11h 00m	28.9°	125.1°
Fourth Contact	Oct 3	12h 23m	39.9°	146.4°
Maximum Magnitude	0.951	—	—	—
Astronomical Midday	Oct 3	14h 04m	45.5°	180.0°

Annular Solar Eclipse of 2005 Oct 03

