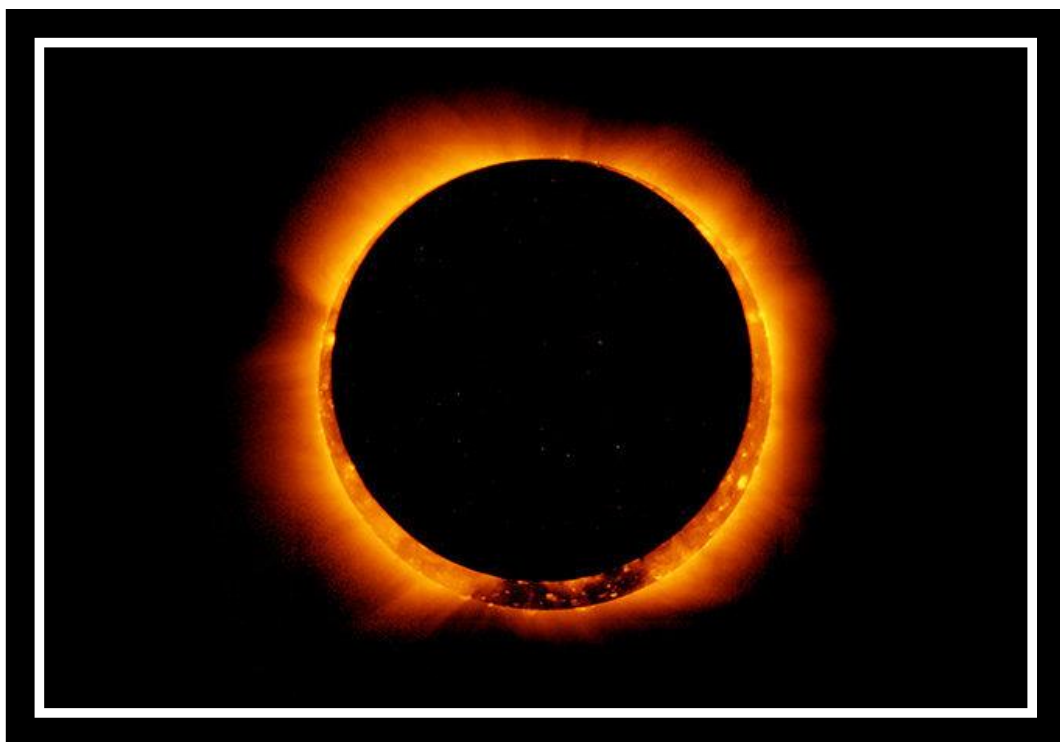




## **Annular Solar Eclipse 21 June 2020**

### **Partial Solar Eclipse visible from KITION PLANETARIUM & OBSERVATORY (CYPRUS)**

On Sunday 21 June 2020 the phenomenon of an Annular Solar Eclipse will be observed from some places on Earth. An annular solar eclipse happens when the Moon covers the Sun's center, leaving the Sun's visible outer edges to form a "Ring of Fire" or annulus around the Moon.



*Annular Solar Eclipse "The Ring of Fire"*

Solar eclipses happen when the New Moon casts a shadow on Earth. The Moon's shadow is not big enough to cover the whole Earth, therefore the shadow is always limited to a certain area. This area changes during the eclipse because the Moon and Earth are in constant motion. The Earth rotates around its own axis and at the same time it orbits the Sun, and the Moon orbits the Earth. Solar eclipses are only visible from within the area where the shadow falls, and the closer you are to the center of the shadow's path, the bigger the eclipse looks.

An Annular solar eclipse can only take place when we have a New Moon. In addition, the Moon's position should be such so that the Earth, the Moon, and the Sun are aligned in a straight or nearly straight line. Furthermore, the Moon should be near its farthest point from Earth, called apogee, so the outer edge of the Sun remains visible as a ring of sunlight.

In Cyprus, the annular phase of this solar eclipse will not be visible, but it can be observed as a partial solar eclipse.

## CAUTION! Protect your health, protect your Eyes!

Never look at the Sun, eclipsed or otherwise, without proper eye protection. The Sun's rays can burn the retinas in the eyes leading to permanent damage or even blindness.

A safe way to watch a solar eclipse is to wear protective eclipse glasses or to project an image of the eclipsed Sun using a pinhole camera.

### Local Type: Partial Solar Eclipse

1<sup>st</sup> contact Partial Eclipse begins: Sunday 21 June 2020, 7:33

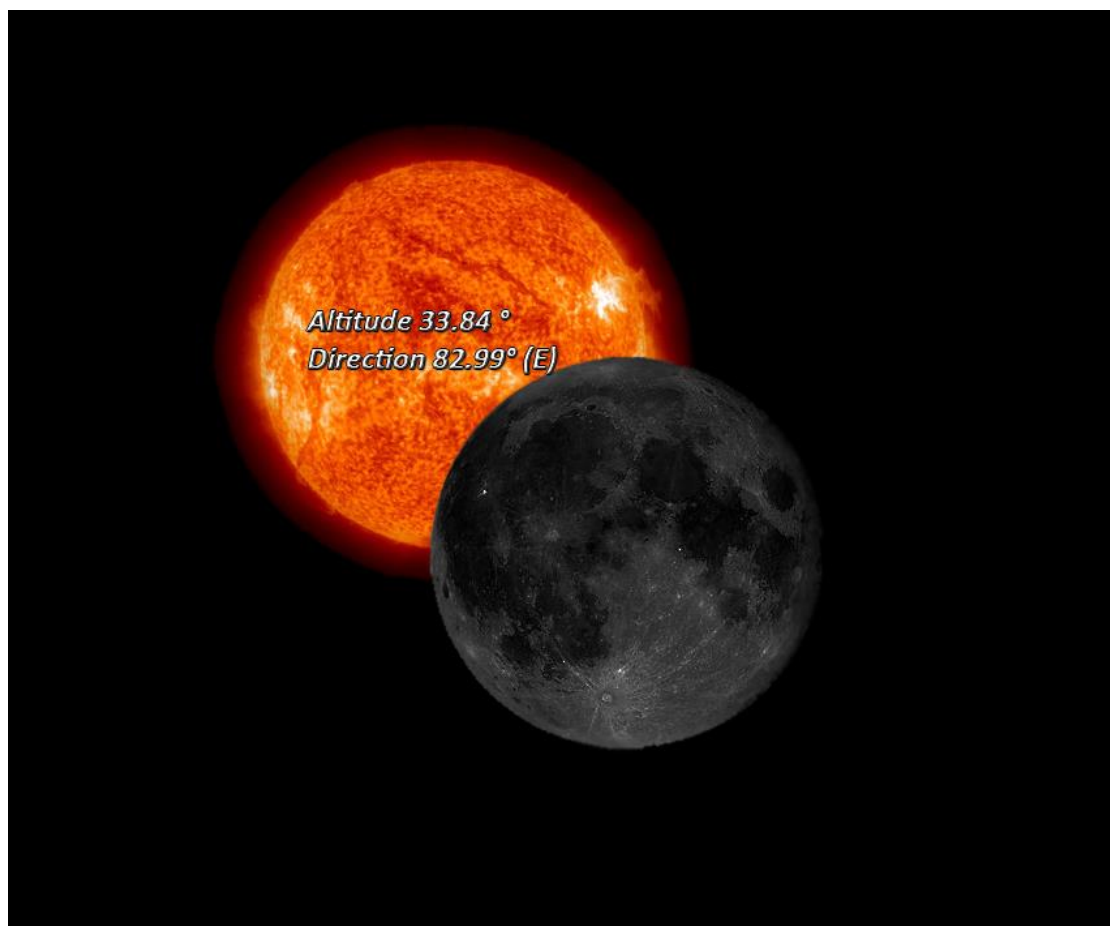
Maximum Eclipse: Sunday 21 June 2020, 8:28

(No 2<sup>nd</sup> and 3<sup>rd</sup> Contacts for Cyprus since annularity is not visible)

4<sup>th</sup> Contact Partial Eclipse ends: Sunday 21 June 2020, 9:28

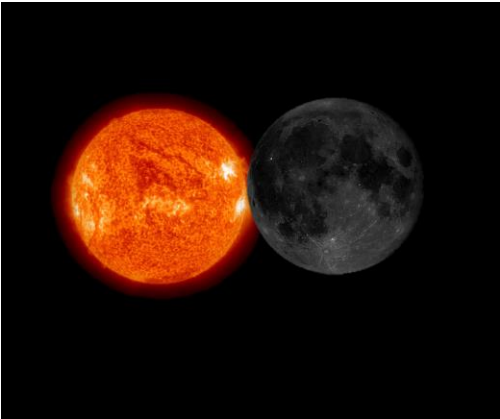
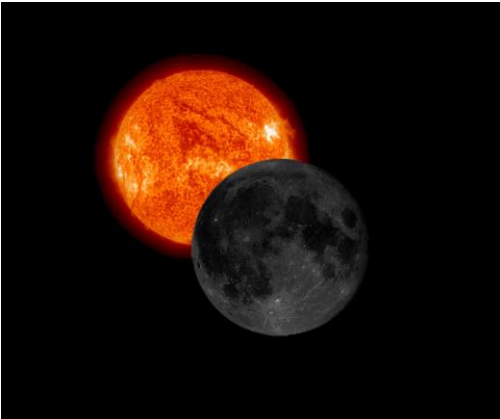
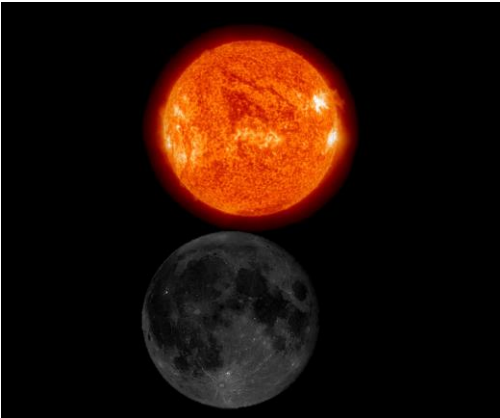
Magnitude at Maximum: 0.38

Duration: 1 hour 55 minutes



*Partial Solar Eclipse Maximum from KITION PLANETARIUM & OBSERVATORY (CYPRUS)*

Partial Solar Eclipse Details

Cyprus Local Time	Contact	Phase	Event
Sun 21 Jun 7:33:53	1 <sup>st</sup> contact		Partial Eclipse begins. The Moon touches the Sun's edge.
Sun 21 Jun 8:28:18	Maximum		Maximum Eclipse. The Moon is closest to the center of the Sun.
Sun 21 Jun 9:28:25	4 <sup>th</sup> contact		Partial Eclipse ends. The Moon leaves the Sun's edge.