

# **2017 ECLIPSES**

## **Climate Data Processing Centre/PMD**

There will be four eclipses, two Lunar (of the Moon) and two Solar (of the Sun) during the year 2017.

1. **Penumbral Eclipse of Moon on Saturday 11<sup>th</sup> February, 2017** (visible at moonset time in Pakistan)

It will be visible from Americas, Europe, Africa and Asia. In Pakistan, It will be visible at moonset time. The beginning and end of a penumbral eclipse are not visible to the eye.

Penumbral eclipse begins	03-34 PST
Greatest eclipse	05-44 PST
Penumbral eclipse ends	07-53 PST
Penumbral magnitude	=0.9884
Umbral magnitude	= -0.0354

2. **Annular Eclipse of Sun on Sunday 26<sup>th</sup> February, 2017** (not visible in Pakistan)

An annular eclipse will be visible from South America, Atlantic, Africa and Antarctica. An Annular Phases will be visible from Pacific, Chile, Argentina, Atlantic and Africa.

Eclipse begins	17-11 PST
Annular phase begins	18-15 PST
Greatest Eclipse	19-53 PST
Annular phase ends	21-32 PST
Eclipse ends	22-36 PST
Eclipse magnitude	=0.9922

3. **Partial Eclipse of Moon on Monday/Tuesday 7<sup>th</sup>/8<sup>th</sup> August, 2017** (visible in Pakistan)

It is visible from the western Pacific Ocean, Australasia, Asia, Antarctica, Africa and most of Europe.

Penumbral eclipse begins	20-50 PST
Partial eclipse begins	22-23 PST
Greatest eclipse	23-20 PST
Partial eclipse ends	00-18 PST (on 8 <sup>th</sup> August, 2017)
Penumbral eclipse ends	01-51 PST (on 8 <sup>th</sup> August, 2017)
Penumbral Magnitude	= 1.2886
Umbral Magnitude	= 0.2464

4. **Total Eclipse of Sun on Sunday/Monday, 20<sup>th</sup> /21<sup>st</sup> August, 2017** (not visible In Pakistan)

It will be visible from North America, NS America. Total Eclipse will be visible from North Pacific, U.S., and South Atlantic.

Penumbral Eclipse begins	20-47 PST
Total phase begins	21-50 PST
Greatest eclipse	23-26 PST
Total phase ends	01-02 PST (on 21 <sup>st</sup> August, 2017)
Penumbral Eclipse ends	02-04 PST (on 21 <sup>st</sup> August, 2017)
Eclipse magnitude	=1.0306