

2016 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 2016.

1. **Total Eclipse of Sun on 09th March 2016** (Not visible in Pakistan)

It will be visible from Asia, Australia, Sumatra, Borneo & Sulawesi.

Eclipse Begin	04 – 19 PST
Partial Eclipse Begins	05 – 16 PST
Total Eclipse Begins	05 – 17 PST
Greatest Eclipse	06 – 58 PST
Total Eclipse Ends	08 – 37 PST
Partial Eclipse Ends	08 – 38 PST
Eclipse Ends	09 – 35 PST

Eclipse Magnitude = 1.0450

2. **Penumbral Moon Eclipse 23rd March, 2016** (Partially visible in Pakistan around Moonrise Time)

It will be visible from Asia, Australia & West Americas.

Penumbral Eclipse Begins	14 – 39 PST
Greatest Eclipse	16 – 48 PST
Penumbral Eclipse Ends	18 – 55 PST

Penumbral Magnitude = - 0.7747

Umbral Magnitude = - 0.3118

3. **Annular Eclipse of Sun, 01st September 2016** (Not visible in Pakistan)

It will be visible from Africa, Indian Ocean, Central Africa & Madagascar.

Eclipse Begins	11 – 13 PST
Partial Eclipse Begins	12 – 18 PST
Total Annular Phase Begins	12 – 21 PST
Greatest Eclipse	14 – 08 PST
Total Annular Phase Ends	15 – 53 PST
Partial Eclipse Ends	15 – 56 PST
Eclipse Ends	17 – 01 PST

Eclipse Magnitude = 0.9736

4. **Penumbral Eclipse of Moon on 16th / 17th September 2016** (Visible in Pakistan)

It will be visible from Europe, Africa, Asia, Australia & West Pacific.

Eclipse Begins	21 – 55 PST
Greatest Eclipse	23 – 55 PST
Eclipse Ends	01 – 54 PST (on 17 th September)

Penumbral Magnitude = 0.9080

Umbral Magnitude = - 0.0635