

Solar and Lunar ECLIPSES in the Year

1822.

There will be Four ECLIPSES this Year: Two of the SUN, and Two of the MOON, at the following Times, viz.

I. *Feb. 5th*, the Moon will be Eclipsed, visible.

Beginning 11h. 57m. *Evening.*
Ecliptic Opposition 0h. 56m. *Morning of the 6th.*
Middle 1h. 5m.
End 2h. 13m.
Duration 2h. 16m.
Digits Eclipsed $40^{\circ} 34'$ on the Moon's Southern Limb.

II. *Feb. 21st*, the Sun will be Eclipsed, visible.

Beginning 3h. 45m. *Afternoon.*
Middle 4h. 38m.
Visible Conjunction 4h. 46m.
Sun Sets Eclipsed 5h. 20m.
Digits Eclipsed $40^{\circ} 54'$ on the Sun's Northern Limb.

III. *Aug. 2d*, the Moon will be Eclipsed, visible.

Beginning 6h. 28m. *Afternoon.*
Ecliptic Opposition 7h. 53m.
Middle 8h. 00m.
End 9h. 32m.
Duration 3h. 4m.
Digits Eclipsed $90^{\circ} 3'$ on the Moon's Northern Limb.

IV. *Aug. 16th*, the Sun will be Eclipsed, invisible.

♂ at 6h. 53m. evening, in Longitude $4s. 23^{\circ} 26\frac{1}{4}'$ the Sun will be centrally Eclipsed on the Meridian, at 7h. 20m. in Longitude $176^{\circ} 11\frac{1}{4}'$ W., and in Latitude $35^{\circ} 59\frac{1}{4}'$ South.

November 4th, The Planet Mercury passes over the Sun's Disk, invisible.

Beginning of Transit 8h. 52m. *Evening.*
Conjunction 9h. 54m.
♀ Long. at time of ♂ $7s. 12^{\circ} 7\frac{1}{2}'$, and Lat. $14' 7''$ S.
End of Transit 11h. 38 $\frac{1}{2}$ m.