

SOLAR AND LUNAR ECLIPSES IN THE YEAR 1830.

Feb. 22—The Sun Eclipsed, invisible.

♂ at 11h. 19m. in Lon. 11 S. $4^{\circ} 7\frac{1}{2}'$ ☽'s Lat. $1^{\circ} 23\frac{1}{2}'$ N.

March 9—The Moon Eclipsed, partly visible.

Beginning of the Eclipse..... 6h. 17m. morn.

Beginning of total darkness..... 7h. 22m.

Ecliptic ♀ 8h. 13m.

Middle 8h. 14m.

End of total darkness..... 9h. 16m.

End of the Eclipse..... 10h. 11m.

Digits Eclipsed $20^{\circ} 0'$ from the Southern side of the ☉'s shadow.

March 24—The Sun Eclipsed, invisible.

♂ at 9h. 24m. Morn. in Lon. 0 S $3^{\circ} 28'$ ☽'s Lat. $1^{\circ} 17\frac{1}{2}'$ S.

Aug. 18—The Sun Eclipsed, invisible.

♂ at 6h. 36m. Morn. in Lon. 4 S. $24^{\circ} 58'$ ☽'s Lat. $1^{\circ} 23'$ S.

Sept. 2—The Moon Eclipsed, partly visible.

Beginning of the Eclipse..... 3h. 33m. Even.

Beginning of total darkness..... 4h. 30m.

Ecliptic ♀ 5h. 20m.

Middle 5h. 21m.

End of total darkness..... 6h. 11m.

End of Eclipse..... 7h. 9m.

Digits Eclipsed $21^{\circ} 40'$ from the Northern side of the ☉'s shadow.

Sept. 16—The Sun Eclipsed.

♂ at 9h. 11m. Even. in Lon. 5 S. $23^{\circ} 39'$ ☽'s Lat. $1^{\circ} 13'$ N.

SIGNS OF THE ZODIAC.

First, ♈ Aries.	Seventh, ♎ Libra.
2, ♉ Taurus.	8, ♌ Scorpio.
3, ♊ Gemini.	9, ♋ Sagittarius.
4, ♋ Cancer.	10, ♌ Capricornus.
5, ♌ Leo.	11, ♍ Aquarius.
6, ♎ Virgo.	12, ♑ Pisces.

NAMES AND CHARACTERS OF THE PLANETS.

☉ The Sun.	♂ Mars
☽ The Moon.	♃ Jupiter.
☿ Mercury.	♄ Saturn.
♀ Venus.	♸ Georgian.
⊕ The Earth.	

NAMES AND

☊ A Planet's .

☋ The Desce-

♂ Conjunction

□ Quadrature
three sign

♀ Opposition,
or discri-

N. North.

S. South.

The Planet (♀
of February—M
Evening Star to

The Eclipses a
so near the horiz
is clear.