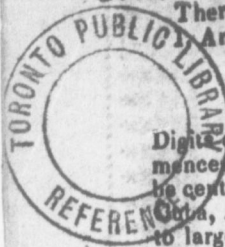


JAN 13 1933

ECLIPSES IN 1846.

90950R



There will be only two Eclipses this year, both of the Sun.

An annular Eclipse of the Sun, April 25th, visible at Toronto, as follows:—
 Beginning at 10h. 35m. } forenoon.
 Greatest Obscuration at .. 11h. 47m. }
 End 1h. 2m. afternoon.

Digital eclipsed, 5 $\frac{1}{2}$, being nearly half the Sun's diameter. The Eclipse commences 118° from the Sun's vertex, on the Western Limb. This Eclipse will be central and annular to portions of the Pacific Ocean, Guatemala, Yucatan, Cuba, Atlantic Ocean, Canary Isles, and the Great African Desert; and visible to large portions of North and South America, Europe and Africa.

2. An annular Eclipse of the Sun, October 20th—conjunction in right ascension at 2h. 46m. 42s. forenoon, apparent time—invisible in America—central and annular through parts of Guinea, Ethiopia, and Madagascar—at the Isle of France—in the Indian Ocean, and Western parts of New Holland; and visible throughout most of Africa, Arabia, the Indian Ocean, and Australia.

CHRONOLOGICAL CYCLES, &c.

Golden Number	4	Dominical Letter	D
Epact	3	Roman Indiction	3
Solar Cycle	7	Julian Period	6559

The year 5607 of the Jewish Era commences September 21st, 1846.

THE TWELVE SIGNS OF THE ZODIAC.

Or the twelve equal divisions of the Ecliptic, through which the Sun passes in his apparent annual revolution, and the day upon which he enters each.

SPRING SIGNS.

- ♈ Aries, the head & face, March 20
- ♉ Taurus, the neck, April 20
- ♊ Gemini, the arms, May 21

SUMMER SIGNS.

- ♋ Cancer, the breast, .. June 21
- ♌ Leo, the heart, July 23
- ♍ Virgo, the bowels, ... Aug't 23

AUTUMN SIGNS.

- ♎ Libra, the reins, Sept. 23
- ♏ Scorpio, the secrets, .. Oct'r 23
- ♐ Sagittarius, the thighs, Nov'r 22

WINTER SIGNS.

- ♑ Capricornus, the knees, Dec'r 21
- ♒ Aquarius, the legs, .. Jan'y 20
- ♓ Pisces, the feet, Feb'y 18

The Moon passes through the twelve signs in about 27 $\frac{1}{2}$ days.

The planet Venus will be Evening Star until 2nd March—the Morning Star till 15th December—then Evening Star again. The planet Mars will be Evening Star until 10th September—then Morning Star the remainder of the year. The planet Jupiter will be Evening Star until 14th May—then Morning Star—rising before midnight, after the 8th August, and visible all night near the end of the year.

EXPLANATIONS.—The Eclipses, Phases of the Moon, Rising and Setting of the Sun, Moon, and Planets, are computed for apparent time.

The first and second columns contain the days of the month and week. The third contains, besides the usual Festivals, &c., the conjunctions of the planets with the Sun and Moon, and with one another, which serves as a directory to show where to find them; also, the distance of the Sun from the Earth on the 1st day of every month at mean Moon, and the distance of the Moon at her greatest and least distances. The fourth and fifth columns contain the rising and setting of the Sun, computed to seconds, and set down to the nearest minute—allowance being made for refraction. The rising and setting of all the celestial bodies are also slightly affected by the temperature and density of the atmosphere—and also, except the fixed stars, by parallax. The sixth contains the difference between apparent and mean time, showing the number of minutes and seconds the Sun passes the meridian, before or after noon, by a clock measuring time uniformly. The seventh contains the rising and setting of the Moon, computed to seconds, and entered to the nearest minute—the refraction and parallax being allowed to balance one another. The eighth contains the Moon's longitude to the nearest degree, showing her true place in the ecliptic at mean Moon. The ninth and last contains the Moon's declination to the nearest minute of a degree, for midnight, at the beginning of every day.

STATE.	
Austria	
Baden	
Bavaria	
Belgium	
Britain, Great	
Denmark	
France	
Greece	
Hanover	
Naples	
Netherlands	
Poland (new King)	
Popedom	
Portugal	
Prussia	
Russia	
Sardinia	
Saxony	
Spain	
Sweden & Norway	
Switzerland	
Turkey	
Tuscany	
Wurtemberg	

THE R

- QUEEN VICTORIA
- Prince Francis
- Princess Royal
- Prince of Wales
- Princess Alice
- Prince Alfred
- Queen Dowager
- Victoria Mary
- Ernest August
- His Son, Ge
- Adolphus Fred
- His Son, Ge
- His Daughte

- Augusta Wilh
- Princess Mary
- Princess Soph
- Leopold, Geo
- Princess Soph

Her Majest
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