

ASTRONOMICAL CALCULATIONS FOR 1878,

FOR THE DOMINION OF CANADA.

SIGNS OF THE ZODIAC.

ARIES, ♈ HEAD AND FACE.

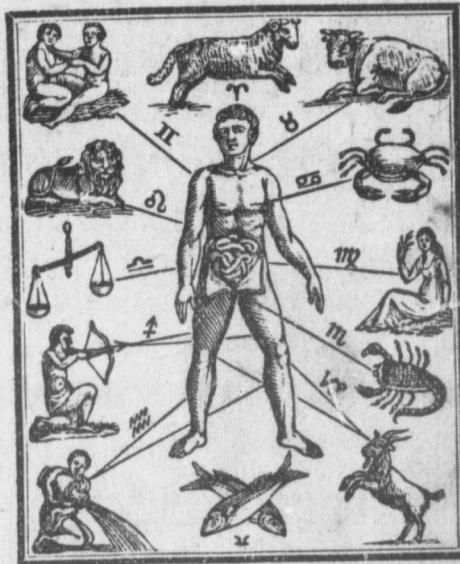
♊
GEMINI,
THE ARMS.

♌
LEO,
THE HEART.

♎
LIBRA,
THE REINS.

♐
SAGITTARIUS,
THE THIGHS.

♑
AQUARIUS,
THE LEGS.



♉
TAURUS,
THE NECK.

♋
CANCER,
THE BREAST.

♍
VIRGO,
THE BOWELS.

♏
SCORPIO,
THE SECRETS.

♐
CAPRICORNUS,
THE KNEES.

PISCES, ♓ THE FEET.

ECLIPSES DURING THE YEAR 1878.

During this year there will be four Eclipses, viz—Two of the Sun and Two of the Moon.

I.—On the 2nd of February there will be an Annular Eclipse of the Sun, but not visible in these parts.

II.—On the 17th February there will be a partial Eclipse of the moon, and partly visible. Begins at Halifax, N. S., 4h. 27m. in the morning, and at Montreal 3h. 47m. It will end at Halifax 9h. 26m., and at Montreal 8h. 46m.

III.—On the 29th of July there will be a total Eclipse of the Sun, visible in North America as a partial Eclipse. It begins on the Earth 3h. 4m. evening, mean time at Halifax in Longitude $144^{\circ} 50'$ east of Greenwich, and Latitude $41^{\circ} 21'$ north. Central Eclipse begins at 4h. 10m. evening in Longitude $117^{\circ} 42'$ east, and Latitude $54^{\circ} 14'$ north. Ends on the Earth 8h. 1m. evening in Longitude $69^{\circ} 45'$ west, and Latitude $3^{\circ} 37'$ north. This Eclipse begins at Halifax about 5h. 30m. evening, and at Montreal about 5h. 10m. The greatest observations will occur a few minutes before the setting of the Sun.

IV.—On the 12th of August there will be a partial Eclipse of the Moon, and it will be visible in part. In Halifax, it begins in the evening at 5h. 8m., and in Montreal at 4h. 37m. The moon rises about 7 o'clock, and the last contact with the shadow will be about 9.

A transit of Mercury will occur on the 6th of May. It will be visible between 11 in the morning and 7 in the evening.

EQUINOXES AND SOLSTICES FOR 1878.

| | h. m. | | h. m. |
|-------------------------------|----------|---------------------------------|----------|
| Vernal Equinox, March 20th... | 3 37 mo. | Autumnal Equinox, Sep. 23rd... | 2 20 mo. |
| Summer Solstice, June 21st... | 0 12 ev. | Winter Solstice, Dec. 21st..... | 8 12 ev. |

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