

ECLIPSES for the Year 1791.

THERE will be four Eclipses, two of the Sun and two of the Moon, in the following order, viz.

The First will be a visible and almost central Eclipse of the Sun, the third day of April, in the morning; the phases as follow

	h. m.	
The Eclipse will begin at - - -	6	$36\frac{1}{2}$
Middle, or greatest obscuration - - -	7	$49\frac{1}{2}$
End of the Eclipse - - - - -	9	$12\frac{1}{4}$
	h. m.	
Time of Incidence - - - - -	1	$13\frac{1}{2}$
— of Repletion - - - - -	1	$23\frac{1}{4}$
Duration - - - - -	2	$36\frac{1}{2}$

}

Apparent time in the morning.

This will be a very singular Eclipse; for as the apparent diameter of the Moon will be much less than that of the Sun, the Sun will appear in the form of a ring encompassing the Moon.

The elements of this Eclipse as I have collected them from Mason's Tables, are as follow.

Apparent time of the true conjunction	}	h. m. sec.	
under the meridian of Halifax		8	27 29 Morn.
At which time the place of the Sun	}		
and Moon will be			
Moon's horizontal parallax		54'	$45''$, 9
Latitude, N. D.		44'	$58''$, 6
Hourly motion of the ☽, in Ecliptic		30'	$15''$
of the ☉		2'	$27''$, 5
Semi-diameter of the ☽		14'	$55''$, 4
of the ☉		16'	$1''$, 8
Hourly motion ☽ in Lat.		2'	$46''$, 4
Angle of the way of the ☽ from the ☉		5°	$41' 25''$
☉'s Declination		5°	$24' 46''$ North

The Second will be of the Moon, on the 18th day of April; the greatest obscuration will be $28\frac{1}{2}$ minutes after 12 o'clock; invisible.

The Third will be of the Sun the 27th day of September, at 7h. 29m. afternoon; invisible.

The Fourth will be a visible Eclipse of the Moon, the 11th of October, in the evening, the phases as follow, viz.

	h. m. sec.	
Begins at - - - - -	7	46 52
Middle - - - - -	9	21 14
End - - - - -	10	55 36

}

Apparent time.

At the moment of the opposition, the ☽'s place will be $\Upsilon 18^{\circ} 40' 10''$, 6, and the ☉'s place in the opposite point.

Digits eclipsed $9\frac{1}{2}$ on the north limb. The Moon's Lat. $32' 10''$, 9 south; but the nearest approximation of their centers $32' 1''$, 2; and the relative angle $5^{\circ} 42' 45''$, and the hourly motion of the ☽ a. ☉ in her relative orbit $28' 37''$, 8.

I.

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And keen
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M	W	
D	D	
1	7	C
2	B	2d
3	2	7 ^a
4	3	
5	4	E
6	5	6
7	6	7
8	7	B
9	8	1
10	9	2
11	10	3
12	11	4
13	12	5
14	13	6
15	14	7
16	15	B
17	16	2
18	17	3
19	18	4
20	19	5
21	20	6
22	21	7
23	22	B
24	23	2
25	24	3
26	25	4
27	26	5
28	27	6
29	28	7
30	29	B
31	30	2