

MORNING AND EVENING PLANETS.

VENUS, will be morning star until May 18, after which it will be the evening star until the close of the year.

MERCURY, will be evening star until May 8, thence the morning star until the end of the year.

MARS, will be the evening star until Aug. 9, after which it will be the morning star.

SATURN, will be the evening star until Feb'y 2, after which it will be the morning star.

JUPITER, will be the evening star until April 4, after which it will be the morning star.

EQUINOXES AND SOLSTICES.

Vernal Equinox, March 20.

Summer Solstice, June 21.

Autumnal Equinox, September 23.

Winter Solstice, December 21.

Characters and names of the Planets, with their Diameters, Distances, Revolutions, and Proportional Bulks.

Characters and Names.	Diameters. Miles.	Mean dist. from ☉. Miles.	Rev. round ☉. Days.	Proport. bulk, the Earth being 1.
☉ The Sun	892163			1,405,851,
☿ Mercury	2999	36,841,327	87,97	,0534
♀ Venus	7660	68,841,768	224,70	,8897
⊕ The Earth	7964	95,173,127	365,25	1,
♂ Mars	4118	145,014,532	686,98	,1382
♃ Jupiter	92572	495,164,461	4,332,59	1,570,51
♄ Saturn	75304	907,834,568	10,758,32	845,4
♁ Herschel	34585	1825,735,123	30,688,71	81,9
☾ The Moon	2174	same as ⊕.	27,32	,0203

In round numbers the Earth is equal in bulk to 50 Moons, Jupiter, to 77 thousands, and the sun to 69 millions.

ECLIPSES IN 1845.

There will be FOUR Eclipses this year, two of the SUN, and two of the MOON; and a Transit of the Planet MERCURY.

I. May 5, an Annular eclipse of the SUN, *invisible* in North America, but may be seen by the greater part of the Inhabitants of Europe and Asia.

II. May 8, a transit of the Planet Mercury across the southern limb of the Sun, *visible* in all parts of North America:—

First contact of limbs 11h 36m 19s. A. M.

Least distance of centres 3h 1m 15s. P. M.

Last contact of limbs. 6h 7m P. M.

} mean time.