

ELEMENTS OF VIRGINIA.

BY JAMES FERGUSON.

THE following elements are computed from Washington observations of Oct. 5, Nov. 11 and Dec. 18.

$$\begin{aligned}
 M &= 1^{\circ} 35' 8.9 && \text{Oct. 5.0 1857} \\
 \Omega &= 173 29 44.6 \\
 \pi &= 10 29 20.8 \\
 i &= 2 47 45.7 \\
 \varphi &= 16 41 14.6 \\
 \log a &= 0.423409 \\
 \log \mu &= 2.914894
 \end{aligned}$$

NEW ASTEROIDS.

THE *fifty-first* of the asteroid-group was discovered by Mr. LAURENT at the observatory of Professor VALZ in Nismes. At the time of discovery it was of the 11 magnitude, but promised to attain the 10 magnitude at least, not having arrived at its stationary point. Mr. VALZ has given to it the name *Nemausa*, derived from that of the tutelary deity of the place.

The approximate positions given are :

Nismes M. T.		α .	δ
1858 Jan. 22	14 ^h	11 ^h 55 ^m 44 ^s	— 4° 13'.5
	24 16	11 56 21	— 4 16.5

The *fifty-second* was detected, February 4, by Mr. GOLD-SCHMIDT, at Paris, and the following approximate positions found by him :

M. T. of Place.	α	δ
1858 Feb. 4	10 ^h 55 ^m	+ 12° 2'
	6 8 55	+ 12 16

Professor PETERS publishes an Altona observation :

1858 Feb. 9	13 ^h 24 ^m 30 ^s .2	10 ^h 43 ^m 45 ^s .9	+ 12° 35' 28".0;
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and Professor LITTROW one at Vienna :

1858 Feb. 13	9 ^h 45 ^m 49 ^s .2	10 ^h 41 ^m 10 ^s .4	+ 13° 2' 5".2
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EPHEMERIS OF VESTA FOR 1858.

BY PROFESSOR AUGUSTUS W. SMITH.

[Communicated by Prof. WINLOCK, Superintendent American Ephemeris.]

Washington Mean Noon.

1858	(4) α	(4) δ	$\log \Delta$	$\log r$	Mer. Pass.	1858	(4) α	(4) δ	$\log \Delta$	$\log r$	Mer. Pass.
Jan. 0	^h 13 ^m 35.5	^o — 2 ["] 35.9	0.35959	0.35797	^h 18 ^m 59.5	July 9	^h 14 ^m 0.2	^o — 5 ["] 16.3	0.22762	0.33300	^h 6 ^m 52.2
10	13 49.5	3 26.7	33410	35614	18 33.9	19	14 9.2	6 52.8	25436	33257	6 21.7
20	14 2.5	4 5.8	30692	35433	18 7.2	29	14 20.2	8 33.6	28002	33226	5 53.2
30	14 14.1	4 32.0	27813	35256	17 39.1	Aug. 8	14 32.8	10 16.4	30442	33206	5 26.3
Feb. 9	14 23.8	4 44.4	24806	35082	17 9.1	18	14 46.9	11 59.2	32741	33198	5 1.0
19	14 31.5	4 42.2	21712	34913	16 36.1	28	15 2.4	13 40.3	34892	33200	4 37.0
Mar. 1	14 36.7	4 25.7	18612	34748	16 2.6	Sept. 7	15 19.1	15 17.8	36901	33217	4 14.1
11	14 39.1	3 55.3	15601	34590	15 25.3	17	15 36.8	16 50.3	38761	33244	3 52.4
21	14 38.5	3 12.7	12830	34437	14 45.0	27	15 56.6	18 16.1	40478	33283	3 32.7
31	14 34.5	2 22.2	10488	34291	14 1.3	Oct. 7	16 15.3	19 33.9	42057	33332	3 11.9
Apr. 10	14 27.8	1 29.4	08765	34151	13 15.0	17	16 35.8	20 42.5	43492	33393	2 52.8
20	14 19.1	0 49.9	07808	34020	12 24.8	27	16 57.0	21 40.6	44791	33465	2 34.6
30	14 9.7	— 0 7.6	07736	33896	11 37.8	Nov. 6	17 18.8	22 27.3	45957	33547	2 16.7
May 10	14 0.9	+ 7.5	08519	33781	10 49.5	16	17 41.2	23 1.7	46987	33639	1 59.8
20	13 53.8	+ 0.04	10037	33676	10 3.0	26	18 3.9	23 23.3	47884	33741	1 42.9
30	13 49.3	— 29.9	12136	33580	9 19.1	Dec. 6	18 26.8	23 31.9	48649	33852	1 26.4
June 9	13 47.7	1 19.9	14596	33493	8 38.1	16	18 49.8	23 27.3	49281	33972	1 9.9
19	13 49.2	2 26.7	17269	33418	8 0.1	26	19 12.8	23 9.8	49782	34101	53.4
29	13 53.4	— 3 46.7	0.20019	0.33354	7 24.9	36	19 35.7	— 22 39.9	0.50152	0.34237	36.8