ASTRONOMISCHE NACHRICHTEN.

N^o. 805.

Observations of Eunomia made with the Northumberland Equatoreal at the Cambridge Observatory.

		Greenw. M. T.	R.A. of Plan.	Log. $\frac{P}{P}$	N. P. D. of Plan.	Log. $\frac{q}{P}$	No. of Comps.	Star.
1851	Sept. 10	9 ^h 13 ^m 49 ^s .7	18 ^h 12 ^m 57 ^s .82	+8,403	113° 7' 1 ^u 8	—9,9646	9	<i>a</i>
	12	9 34 55,2	18 14 4,59	8,470	112 59 58,4	9,9559	10	<i>b</i>
	15	9 5 17,0	18 15 58,14	8,423	112 49 1,3	9,9619	9	<i>b</i>
	17	8 55 12,3	18 17 19,93	8,414	112 42 8,8	9,9628	7	<i>b</i>
	20	8 39 20,7	18 19 32,47	8,396	112 32 11,3	9,9643	1	<i>c</i>
	—	8 52 35,5	18 19 33,12	8,431	112 32 2,4	9,9606	6	<i>d</i>
	Octb. 16	6 54 12,7	18 46 12,57	8,296	111 0 20,4	9,9689	7	<i>e</i>
	Nov. 1	7 44 35,0	19 8 0,29	8,521	109 53 50,5	9,9419	4	<i>f</i>
	3	6 36 58,9	19 10 52,59	8,386	109 44 53,6	9,9601	1	<i>g</i>
	—	6 48 34,0	19 10 53,06	8,417	109 45 7,5	9,9573	6	<i>h</i>
	4	6 52 14,4	19 12 22,70	8,432	109 40 6,5	9,9555	1	<i>i</i>
	—	7 9 18,6	19 12 23,67	8,470	109 40 17,0	9,9505	6	<i>h</i>
	18	6 21 57,4	19 34 8,21	8,436	108 28 4,6	9,9527	2	<i>k</i>
	—	6 27 53,2	19 34 8,50	8,450	108 28 7,0	9,9512	3	<i>l</i>
	20	6 38 10,7	19 37 24,41	8,480	108 16 32,3	9,9466	9	<i>l</i>
	Dec. 11	6 1 41,6	20 13 6,65	+8,494	105 58 10,4	—9,9402	10	<i>m</i>

Assumed apparent places of the Stars of Comparison.

	Apparent R.A.	Apparent N. P. D.	Name of Star.
<i>a</i>	18 ^h 16 ^m 8 ^s .01	113° 3' 10 ^u 2	H. C. 33885.
<i>b</i>	18 13 2,86	112 58 59,9	B. A. C. 6222.
<i>b</i>	18 13 2,81	112 58 59,9	—
<i>b</i>	18 13 2,77	112 59 0,0	—
<i>c</i>	18 19 14,00	112 30 2,0	Anonym.
<i>d</i>	18 20 43,08	112 46 33,7	—
<i>e</i>	18 48 30,44	110 50 39,5	ξ' Sagittarii = B. A. C. 6454.
<i>f</i>	19 6 40,52	110 2 13,7	H. C. 36087.
<i>g</i>	19 1 1,69	110 2 5,1	B. A. C. 6550.
<i>h</i>	19 12 54,14	109 30 25,5	— 6616.
<i>i</i>	19 8 56,07	109 12 39,1	d Sagittarii = B. A. C. 6584.
<i>h</i>	19 12 54,12	109 30 25,5	B. A. C. 6616.
<i>k</i>	19 28 25,27	108 33 16,6	— 6710.
<i>l</i>	19 36 24,06	108 29 58,0	Anonym.
<i>l</i>	19 36 24,04	108 29 58,0	—
<i>m</i>	20 12 24,98	105 14 52,5	B. A. C. 6992.

The places of the above mentioned catalogues have been adopted. The assumed R. A. and N. P. D. of the anonymous stars *c* and *d* were obtained by single equatoreal comparisons with B. A. C. 6222. The agree, however, very closely with the places of these stars given in the Astronomical Journal No. 36 p. 89. The anonymous star *l* was compared equatoreally with B. A. C. 6992, thrice in R. A. and once in N. P. D.

Observations of the Planet discovered by Professor *de Gasparis* 1852 March 17.

		Greenw. M. T.	R. A. of Plan.	Log. $\frac{P}{P}$	N. P. D. of Plan.	Log. $\frac{q}{P}$	No. of Comp.	Star.
1852	April 8	9 ^h 34 ^m 51 ^s .4	9 ^h 50 ^m 25 ^s .81	+7,933	76°15'56".0	-9,7940	4	α
	—	11 17 36,3	9 50 25,06	+8,426	76 15 56,7	-9,8138	1	α
	10	10 10 0,1	9 50 14,51	+8,240	76 14 5,5	-9,8000	7	α
	12	8 25 2,0	9 50 9,45		76 12 41,6	-9,7907	Meridian	
	13	8 21 4,4	9 50 7,69		76 11 58,7	-9,7906		

The Planet was very faint on the meridian on April 12. The Star of Comparison is H. C. 19589. The following are the assumed apparent R. A. and N. P. D., which were derived from one transit and one circle observation of this star taken at the Cambridge Observatory.

	App. R. A.	App. N. P. D.
April 8	9 ^h 54 ^m 9 ^s .06	76°23'23".0
10	9 54 9,04	76 23 22,9

J. Challis.

National Observatory.

Observations of *Encke's* Comet, made with the Filar-Micrometer of the Wash. Equatoreal by *J. Ferguson*. Communicated by Lieut. *Maury*. (Corrected for refraction).

1852	M. T. Wash.	No. of Comp.	Star of Comp.	$\Delta \alpha$.	$\Delta \delta$.	α .	δ .	A
Jan. 12	6 ^h 47 ^m 03 ^s .0	4	Weisse XXIII. 48.	+1 ^m 45 ^s .82	-7' 05".69	23 ^h 5 ^m 26 ^s .94	+4 ^o 4' 53".38	7
—	—	4	— 111.	-1 00,30	-6 35,59	5 27,33	4 4 52,90	7
14	6 41 07,9	6	— 111.	+1 19,87	+3 24,29	7 47,46	4 14 52,51	5
19	6 48 14,5	4	8127 B. A. C.	+1 21,50	+10 50,80	14 8,08	4 45 09,15	7
22	6 55 19,5	6	Weisse XXIII. 359.	+0 24,44	-8 42,78	18 12,95	5 4 50,48	7
23	6 43 33,7	5	1633 Santini.	-1 06,78	-3 36,39	19 35,75	5 11 56,34	7
24	6 41 39,5	8	—	+0 19,86	+3 24,62	21 02,47	5 18 58,17	8
25	6 54 44,6	8	1635 Santini.	+0 32,05	+9 06,69	22 30,95	5 26 15,03	8
26	7 2 14,9	3	Weisse XXIII. 458.	+1 11,74	-2 42,63	24 00,48	5 33 47,63	8
27	6 42 02,2	6	—	+2 39,62	+4 47,28	25 28,36	5 41 17,47	9
Febr. 2	6 53 13,4	14	1649 Santini.	+0 36,14	+3 07,55	34 58,95	6 28 50,96	8
3	6 55 22,2	10	—	+2 15,48	+11 24,12	36 38,27	6 37 07,42	8
7	7 21 44,9	10	α	+0 39,56	-6 07,71	43 33,03	7 11 22,67	7
8	6 46 26,8	7	8272 B. A. C.	+4 39,56	-5 43,83	45 16,75	7 19 39,59	8
9	6 58 45,1	13	1664 Santini.	-0 56,09	+4 40,69	47 05,99	7 28 27,72	8
12	6 44 14,0	3	8353 B. A. C.	+2 12,68	-13 55,79	52 35,33	7 53 50,58	6
14	6 54 59,6	12	—	+1 33,05	+2 45,64	23 56 21,06	8 10 31,86	8
17	7 3 42,1	8	8 Santini.	-2 4,34	+15 31,10	0 2 06,22	8 34 21,61	9
29	6 54 58,4	7	{ 31 Santini. } { 137 B. A. C. }	-2 32,07	-11 42,09	23 56,97	9 17 30,07	9
March 1	6 59 34,1	8	—	-1 7,88	-16 51,80	25 21,14	9 12 20,24	10
3	6 54 41,2	9	Weisse O. 436	+1 50,52	-2 55,68	27 38,50	8 54 6,65	8
6	6 52 55,4	10	— 491	+0 30,83	-3 38,84	29 14,68	7 59 43,29	9
—	7 23 43,7	4	— 491	+0 30,66	-4 09,80	29 14,52	7 59 12,21	—
7	6 42 13,3	3	— 476	+1 15,55	+12 29,56	29 5,75	7 32 12,70	10
—	7 3 35,9	8	— 476	+1 14,88	+12 6,24	29 5,09	7 31 49,38	—
10	6 59 7,6	5	— 450	-0 43,35	+23 02,67	0 25 45,95	+5 31 13,30	10

From the 12th to the 25th of January the Comet was seen with difficulty bearing scarce any illumination. It was faintest on the 12th, 23rd and 24th. On the 25th it covered a small star of the 11th magnitude which was at first taken as its

nucleus. The observations of the 25th are better than any preceding. From the 25th of January to the 8th of February, the Comet increased in distinctness, presenting a condensation of light, resembling a cluster of stars of the 12th magnitude,