

# ASTRONOMISCHE NACHRICHTEN.

N<sup>o</sup>. 819.

Extra meridional observations, made at the Observatory of *Edward Cooper Esq.* Markree,  
with the large Equatorial, square Bar-Micrometer, dark field.

## Encke's Comet.

1852 Greenw. M. T.		$\alpha$ .	$\delta$ .	Comp. Stars.	No. of Obs.	1852 Greenw. M. T.		$\alpha$ .	$\delta$ .	Comp. Stars.	No. of Obs.
Janr.	17,304752	23 <sup>h</sup> 11 <sup>m</sup> 17 <sup>s</sup> .87	+4° 31' 34".4	<i>a</i>	10	Janr.	24,300704	23 <sup>h</sup> 20 <sup>m</sup> 45 <sup>s</sup> .79	+5° 17' 41".1	<i>g</i> ,	10
	17,304752	11 16,95	4 31 25,8	<i>b</i>		Febr.	13,314821	23 54 7,22	8 0 37,5	<i>k</i>	10
	17,304752	11 17,79	4 31 27,9	<i>c</i>			21,319601	0 9 26,45	9 0 35,1	<i>l</i>	8
	20,296745	15 11,82	4 50 14,4	<i>d</i>	10		24,307928	15 7,10	9 15 25,5	<i>m</i>	10
	23,294799	19 19,54	5 10 25,6	<i>e</i>	10		24,328856	15 9,31	9 15 29,9	<i>m</i>	10
	23,294799	19 19,39	5 10 30,1	<i>f</i>			25,307405	16 57,75	9 18 32,1	<i>n</i>	10
	23,294799	19 19,20	5 10 27,8	<i>g</i>			25,323949	16 59,24	9 18 34,9	<i>n</i>	10
	23,294799	19 19,28	5 10 24,1	<i>h</i>	10	March	2,322882	0 26 22,89	+9 6 27,5	<i>o</i>	9
	24,294310	23 20 45,30	+5 17 39,8	<i>g</i> ,							

Corrected for parallax, from *Stratford's* ephemeris.

Adopted mean places for 1852,0, of compared stars, with reductions to apparent places at the times of observation, and authorities.

B. A. C. 8127	23 <sup>h</sup> 12 <sup>m</sup> 48 <sup>s</sup> .19	—1.60	+4° 34' 26".46	—6".99	<i>a</i>
Weisse 229	11 17,70	1,61	4 36 8,74	7,00	<i>b</i>
— 252	12 38,19	1,60	4 30 21,37	7,05	<i>c</i>
Rümker, A.S.N. XII. 138	14 31,19	1,62	4 41 38,90	7,29	<i>d</i>
Weisse 340	16 50,30	1,63	5 22 25,80	7,40	<i>e</i>
— 359	17 50,11	1,62	5 13 41,04	7,44	<i>f</i>
— 413	20 44,02	1,61	5 15 38,80	7,46	<i>g</i>
— 414	20 44,68	1,61	5 17 5,40	7,46	<i>h</i>
— 413	20 44,02	1,60	5 15 38,80	7,37	<i>g</i> ,
B. A. C. 8353	23 54 49,50	1,61	8 7 58,80	8,70	<i>k</i>
Weisse 126	0 7 47,66	1,61	8 55 42,93	9,09	<i>l</i>
— 280	16 19,99	1,60	9 6 5,59	9,24	<i>m</i>
— 317	19 15,68	1,60	9 19 46,94	9,25	<i>n</i>
— 436	0 25 49,61	—1,61	+8 57 11,96	—9,62	<i>o</i>

Mean places, for 1852,0, of compared stars, from other sources.

Piazzi 49	23 <sup>h</sup> 12 <sup>m</sup> 47 <sup>s</sup> .82	+4° 34' 30".26	<i>a</i>
Rümker, A. S. N. XII. 138	12 48,22	4 34 28,38	<i>a</i>
Piazzi 43	11 16,20	4 36 12,96	<i>b</i>
Lalande 45638	11 16,57	4 36 14,26	<i>b</i>
— 45683	12 37,98	4 30 22,72	<i>c</i>
— 45753	14 31,05	4 41 43,14	<i>d</i>
— 45818	16 49,85	5 22 30,36	<i>e</i>
— 45848	17 49,86	5 13 46,30	<i>f</i>
— 45952	20 43,67	5 15 43,88	<i>g</i>
Rümker, A. S. N. XII. 138	20 44,14	5 15 40,49	<i>g</i>
— — — 139	23 54 49,72	8 7 57,82	<i>k</i>
Lalande 563	0 19 15,21	+9 19 48,65	<i>n</i>

## N o t e s.

Janr. 17 Fancied a slight condensation, not central, but toward the N.E. The Comet was excessively faint, and very difficult to observe. The want of a distinct nucleus necessarily makes the place uncertain.

Janr. 20. The Comet like a very faint wispy cloud, rather more condensed toward the Northern portion. I apprehend there may have been small stars seen through the body, during the observation, which was most difficult and uncertain.

Janr. 23. The observation as satisfactory as could be expected from the extreme faintness of the object. I have never had a stronger impression of the very vapory nature of such bodies.

Janr. 24. The Comet was N. following, Weisse 414, and so close that it increased the difficulty of the observation. The moon also rather troublesome. I cannot depend much on the observation, though carefully taken.

Febr. 13. The alteration in the brightness of the Comet is unexpectedly great. It is now a fine object. The light at least equal to that of a star 10th magnitude, and beautifully white. The appearance is that of a rich round nebula, with

a concentration of light; but no nucleus. The faint nebulosity did not seem to extend so far in the N.E. direction as elsewhere.

Febr. 21. Beautifully shown. Like a fine round nebula, uniformly surrounded by an atmosphere gradually fading off.

Febr. 24. Beautifully shown. Observation made with great care.

Febr. 25. Observation very carefully made.

March 8. Observed an object near to where the Comet ought to be, but its light was so bright and concentrated that I had much doubt whether it was not a star. If it was the Comet the compared star is Weisse 476, which was extremely faint, and the places would be: —

Weisse 476  $0^h 27^m 51^s 44 - 1^s 61 \quad 7^{\circ} 19' 53'' 22 - 10'' 10$   
 March 8, 336181  $\odot$ ?  $0 \ 29 \ 4,35 \quad 7 \ 10 \ 41,1$

I could not see Weisse 510. The object was very low. Clouds before the observation could be satisfactorily completed.

March 10. Sought for the Comet in a tolerably clear sky. Could not see it.

## P s y c h e.

Greenw. M. T.	$\alpha$ .		$\delta$ .		Comp. stars.	No. obs.
1852 April 12, 474149	$9^h 50^m 8^s 62$	$+ [9,3211]: \Delta$	$+ 13^{\circ} 47' 19'' 9$	$+ [0,7609]: \Delta$	$a$	10
12,506741	50 8,88	9,4167	47 24,2	0,7734	$a$	10
13,404241	50 7,58	8,8475	47 42,9	0,7439	$a_1$	10
17,398385	50 15,90	8,9081	49 3,2	0,7443	$a_2$	14
24,377393	51 16,99	9,0940	46 36,6	0,7483	$a_3$	5
24,386856	9 51 16,77	9,1557	13 46 39,1	0,7505	$a_3$	2
May 22, 464501	10 4 40,84	9,5043	12 47 10,4	0,8018	$b$	5
22,475595	10 4 40,79	$+ [9,5152]: \Delta$	$+ 12 47 8,9$	$+ [0,8068]: \Delta$	$b$	5

Coefficients for parallax logarithmic.  $\Delta$  = distance from the Earth.

Adopted mean places for 1852,0, of compared stars, with reductions to apparent places at the times of observation, and authorities.

Markree Mer. Circle. 5 Obs.	$9^h 49^m 11^s 09$	$+ 0^s 43$	$+ 13^{\circ} 51' 32'' 80$	$- 2'' 95$	$a$
		$+ 0,42$		$- 2,88$	$a_1$
		$+ 0,37$		$- 2,61$	$a_2$
		$+ 0,28$		$- 2,18$	$a_3$
Weisse 45	10 3 40,09	$+ 0,00$	$+ 12 45 51,88$	$- 0,71$	$b$

M. Rümker's determination of  $a$  is

A.S.N. XII. 161.  $9 \ 49 \ 10,87 \quad + 13 \ 51 \ 33,0$

## N o t e s.

April 13 Blowing hard. I fear the observation is worth nothing.

— 24 Occasional gusts of wind may have affected the observation.

May 14 Carefully observed what unfortunately was not the planet.

## T h e t i s.

Greenw. M. T.		$\alpha$ .	$\delta$ .	Comp. stars.	No. obs.
1852	May 24,482979	$11^h 58^m 18^s.27 + [9,4045]: \Delta$	$+8^{\circ} 8' 10''.1 + [0,8047]: \Delta$	$a$	5
	24,482979	18,36 9,4045	8 10,4 0,8047	$a$	5
	24,501960	18,91 9,4452	8 5,9 0,8092	$b$	5
	24,501960	18,93 9,4452	8 5,5 0,8092	$b$	5
	25,468457	41,96 9,3729	3 19,8 0,8024	$c$	5
	25,468457	42,13 9,3729	3 20,6 0,8024	$c$	5
	25,490160	42,61 9,4263	3 13,8 0,8073	$c$	5
	25,490160	$11 58 42,51 + [9,4263]: \Delta$	$+8 3 14,4 + [0,8073]: \Delta$	$c$	5

Coefficients for parallax logarithmic.  $\Delta$  = distance from the Earth.

Adopted mean places, for 1852,0, of compared stars, with reductions to apparent places at the times of observation, and authorities.

Weisse 973	$11^h 56^m 43^s.86 + 0^{\circ}.63$	$8^{\circ} 13' 30''.83 - 1^{\circ}.65$	$a$
971	56 43,00 $+0^{\circ}.63$	13 58,13 $-1^{\circ}.65$	$b$
968	11 56 33,65 $+0^{\circ}.62$	8 0 38,49 $-1^{\circ}.65$	$c$

For the observations of Thetis a new eye-piece, of higher power, was used; which gives a larger and much flatter field, the bars of the micrometer being broader than were those in the old eye-piece. By taking the time from a half seconds sidereal Chronometer, the observations were left to depend alone upon my own eye and ear.

*A. Graham.*

Planeten-Beobachtungen im Jahre 1852 auf der Sternwarte zu Kremsmünster,  
nebst ihrer Vergleichung mit der Berliner Ephemeride.

## S a t u r n.

			M. Zt. Kremsm.	AR.	(Eph. — $\alpha$ )	Geoc. Decl.	(Eph. — $\delta$ )
1852	Jaar.	1	7 <sup>h</sup> 3 <sup>m</sup> 22 <sup>s</sup> .33	1 <sup>h</sup> 45' 34 <sup>''</sup> .98	— 0 <sup>''</sup> .82	8 <sup>''</sup> 11' 55 <sup>''</sup> .86	+ 8 <sup>''</sup> .35
		2	6 59 27,24	45 35,81	0,99	12 16,03	10,86
		4	6 51 37,65	45 38,05	0,65	13 13,20	6,19
		6	6 43 50,21	45 42,45	0,79	14 12,00	9,39
		7	6 39 57,18	45 45,33	0,90	14 45,60	10,40
		8	6 36 4,30	45 48,37	0,77	15 26,76	6,17
		10	6 28 20,23	45 56,14	0,93	16 46,00	7,87
		13	6 16 46,77	46 10,46	0,76	19 6,19	6,32
		20	5 50 3,67	46 58,87	1,01	25 43,67	11,66
		24	5 34 55,97	1 47 34,91	— 0,66	8 30 19,33	+ 14,38

## U r a n u s.

1852	Janr. 1	7 11 46,65	1 54 0,68	$+10,99$	11 9 25,18	$+57,83$
	2	7 7 49,57	53 59,51	10,75	9 22,30	54,99
	4	6 59 55,02	53 56,92	11,10	9 13,94	55,25
	6	6 52 1,97	53 55,56	11,00	9 7,28	58,15
	7	6 48 5,61	53 55,10	11,01	9 6,29	58,77
	8	6 43 59,50	53 54,88	11,01	9 6,90	59,08
	10	6 36 18,11	53 55,33	10,68	9 10,50	60,42
	12	6 28 27,03	53 56,07	10,86	9 24,22	56,01
	13	6 24 32,01	53 56,97	10,72	9 32,66	53,88
	20	5 57 11,52	54 7,89	10,70	10 45,80	55,40
	24	5 41 38,40	1 54 18,45	$+10,73$	11 11 53,14	$+54,68$