

- 36. Good observation; disappearance instantaneous.
- 37, 41. Disappearances instantaneous.
- 42. Disappearance pretty sudden through thin cloud.
- 43. Disappearance instantaneous; a faint flash of light just within point of disappearance a large fraction of a second after recorded time.

- 44. Excellent observation; disappearance instantaneous.
- 45. Disappearance instantaneous.
- 46. Uncertain owing to excessive faintness.
- 47, 48, 50, 51, 52. Disappearances instantaneous.
- 53. Good observation, but disappearance not quite instantaneous.

Private Observatory, Windsor N. S. Wales 1887 April 13.

John Tebbutt.

Observations de Comètes et de Planètes,

faites à l'Observatoire royal de Bruxelles par *E. Stuyvaert*, astronome adjoint.

(Communiquées par le Directeur *F. Folie*.)

Date	T.M. Brux.	$\Delta\alpha$	$\Delta\delta$	Cp.	α app.	$\log p.A$	δ app.	$\log p.A$	Red. ad l. app.	*
1886 Comète 1886 IX.										
Oct. 22	16 ^h 46 ^m 11 ^s	-0 ^m 20 ^s 50	-11' 20".1	8	—	9.538 _n	—	0.826	+0 ^s 98 — 7".9	1
22	16 47 49	-1 17.68	- 2 28.0	5	11 ^h 17 ^m 41 ^s 08	9.537 _n	+ 4° 3' 37".2	0.826	+0.97 — 7.9	2
25	16 56 0	-1 5.37	+ 0 13.3	6	11 26 28.85	9.527 _n	+ 4 46 4.5	0.822	+0.99 — 8.1	3
25	16 56 0	-2 3.07	+ 0 52.1	6	11 26 28.83	9.527 _n	+ 4 45 46.5	0.822	+0.99 — 8.1	4
26	17 39 11	-3 16.00	- 3 32.6	3	11 29 38.61	9.474 _n	+ 4 59 45.6	0.816	+0.99 — 8.2	5
27	16 53 57	+0 24.70	+ 2 49.0	2	11 32 43.52	9.528 _n	+ 5 16 25.0	0.821	+1.01 — 8.4	6
27	17 10 4	-3 2.15	+ 3 16.5	4	11 32 45.85	9.511 _n	+ 5 16 30.0	0.819	+1.00 — 8.3	7
27	17 10 4	-3 33.25	- 5 57.8	4	11 32 46.21	9.511 _n	+ 5 16 36.6	0.819	+0.99 — 8.3	8
28	16 30 42	+0 48.20	- 9 59.0	1	11 35 55.06	9.547 _n	+ 5 24 55.3	0.823	+1.02 — 8.5	9
28	16 30 42	-0 23.20	+ 2 14.4	1	11 35 56.28	9.547 _n	+ 5 24 48.7	0.823	+1.01 — 8.4	8
28	17 18 57	+2 7.40	+ 2 10.7	1	11 36 2.39	9.500 _n	+ 5 32 56.3	0.816	+1.02 — 8.6	10
28	17 18 57	+0 56.00	- 1 50.9	1	11 36 2.86	9.500 _n	+ 5 33 3.4	0.816	+1.02 — 8.5	9
30	16 39 6	+2 55.08	- 1 28.2	5	11 42 46.13	9.540 _n	+ 6 6 9.9	0.820	+1.04 — 8.8	11
30	16 43 52	+1 45.33	- 3 24.5	3	—	9.536 _n	—	0.819	+1.03 — 8.8	12
30	16 43 52	+1 23.20	+ 5 21.4	3	11 42 46.57	9.536 _n	+ 6 6 26.0	0.819	+1.03 — 8.7	13
Nov. 2	16 50 2	-0 46.46	- 7 34.0	7	11 53 49.81	9.530 _n	+ 7 0 42.7	0.814	+1.02 — 9.0	14
2	16 50 2	-1 48.63	- 7 31.9	7	11 53 50.41	9.530 _n	+ 7 0 50.2	0.814	+1.02 — 8.6	15
11	16 5 58	+2 16.84	+ 2 51.8	11	12 34 40.58	9.569 _n	+10 15 30.0	0.815	+1.01 — 9.6	16
18	16 58 59	-1 59.09	+ 1 42.3	7	—	9.550 _n	—	0.791	+0.88 — 8.8	17
18	16 58 59	-3 39.26	+ 0 40.9	7	13 18 29.52	9.550 _n	+13 18 9.1	0.791	+0.88 — 8.7	18
29	16 45 7	+5 5.80	- 4 8.6	6	14 56 19.16	9.593 _n	+17 29 38.9	0.805	+0.64 — 4.7	19
29	16 45 7	+1 55.40	- 2 48.6	2	—	9.591 _n	—	0.801	+0.64 — 4.4	20
Déc. 7	17 10 52	-1 17.00	- 7 21.9	2	16 25 2.18	9.596 _n	+17 37 25.1	0.813	+0.56 + 2.7	21
7	17 13 14	+0 39.40	- 6 11.1	2	—	9.596 _n	—	0.815	+0.56 + 2.5	22
7	17 16 52	+2 2.45	- 7 45.2	4	16 25 2.06	9.596 _n	+17 36 54.2	0.816	+0.56 + 2.3	23
20	18 34 20	+3 51.44	- 2 55.2	5	18 28 48.04	9.583 _n	+11 4 18.7	0.828	+0.89 +11.0	24
20	18 36 33	-2 2.73	- 5 2.8	3	18 28 49.98	9.583 _n	+11 4 5.3	0.827	+0.89 +11.5	25

Équatorial de l'Est (0^m15); micromètre circulaire.

1886-87 Comète 1886 VII (Finlay).										
Nov. 22	5 5 11	-2 7.60	- 6 53.4	4	20 29 42.75	8.865	-21 30 2.5	0.926	+1.74 +12.6	26
30	5 37 58	-2 27.67	- 4 15.0	3	21 9 80.4	9.057	-18 31 42.4	0.916	+1.79 +13.6	27
Déc. 2	6 27 32	-1 2.05	+ 6 54.6	4	—	9.289	—	0.906	+1.78 +13.8	28
21	6 12 0	+1 13.30	+ 9 15.8	4	22 57 6.26	9.090	- 7 24 46.2	0.876	+2.12 +15.3	29
21	6 27 34	-1 21.85	- 6 42.4	4	22 57 8.97	9.168	- 7 24 34.6	0.875	+2.14 +15.3	30
Janv. 11	6 11 35	-0 17.20	+ 1 8.3	5	—	8.953	—	0.803	-0.57 — 5.2	31
17	6 20 53	-0 33.63	- 2 38.5	8	1 7 13.34	9.000	+ 8 19 48.1	0.780	-0.47 — 5.3	32

Équatorial de l'Est (0^m15); micromètre circulaire.

Date	T. M. Brux.	$\Delta\alpha$	$\Delta\delta$	Cp.	α app.	$\log p.\Delta$	δ app.	$\log p.\Delta$	Red. ad l. app.	#
1887 Planète (80) Sappho.										
Févr. 16	9 ^h 24 ^m 26 ^s	+1 ^m 7 ^s .44	- 4' 42".1	5	—	8.746	—	0.756	+0 ^s 77 -11".6	33
16	9 24 46	+0 13.36	+ 2 28.6	5	—	8.746	—	0.756	+0.78 -11.6	34
17	10 17 39	+0 59.03	- 0 5.4	6	—	9.169	—	0.761	+0.76 -11.6	33
17	10 17 39	+0 4.77	+ 7 11.6	6	—	9.169	—	0.761	+0.76 -11.6	34

Grand équatorial (0^m38); micromètre circulaire.

Positions moyennes des Étoiles de Comparaison.

*	α 1886.0	δ 1886.0	Autorité	*	α 1886-87.0	δ 1886-87.0	Autorité
1	11 ^h 17 ^m 59 ^s .8	+ 4° 15'	DM. +4°2455	18	13 ^h 22 ^m 7 ^s .90	+13° 17' 36".9	W ₁ 13 ^h 325
2	11 18 57.79	+ 4 6 13".1	BB.VI +4°2458	19	14 51 12.72	+17 33 52.2	W ₂ 14 ^h 1072.3
3	11 27 33.03	+ 4 45 59.3	Lal. 21943	20	14 54 25.3	+17 32	DM. +17°2809
4	11 28 30.91	+ 4 45 2.5	W ₁ 11 ^h 458	21	16 26 18.62	+17 44 44.3	W ₂ 16 ^h 742
5	11 32 53.62	+ 5 3 26.4	W ₁ 11 ^h 542	22	16 24 24.1	+17 43	DM. +17°3038
6	11 32 17.81	+ 5 13 44.4	BB.VI +5°2518	23	16 22 59.05	+17 44 37.1	W ₂ 16 ^h 647
7	11 35 47.00	+ 5 13 21.8	W ₁ 11 ^h 595	24	18 24 55.71	+11 7 2.9	W ₁ 18 ^h 559
8	11 36 18.47	+ 5 22 42.7	W ₁ 11 ^h 606	25	18 30 51.82	+11 8 56.6	W ₁ 18 ^h 707
9	11 35 5.84	+ 5 35 2.8	W ₁ 11 ^h 582	26	20 31 48.92	-21 23 35.0	Lal. 39744
10	11 33 53.97	+ 5 30 54.2	Lal. 22096	27	21 11 34.08	-18 27 52.8	Lal. 41315
11	11 39 50.01	+ 6 7 46.9	W ₁ 11 ^h 664	28	21 15 29	-17 46	Anonyme.
12	11 40 59.02	+ 6 10	DM. +6°2498	29	22 55 50.84	- 7 34 22.5	Lal. 45026
13	11 41 22.34	+ 6 1 13.3	Lal. 22276	30	22 58 28.68	- 7 18 12.5	Lal. 45120
14	11 54 35.25	+ 7 8 25.7	W ₁ 11 ^h 909	31	0 40 27.7	+ 5 8	DM. +4°114
15	11 55 38.02	+ 7 8 30.7	W ₁ 11 ^h 930	32	1 7 47.44	+ 8 22 31.9	W ₁ 1 ^h 74
16	12 32 22.73	+10 12 47.8	W ₁ 12 ^h 511	33	6 36 14.7	+10 57	DM. +10°1234
17	13 20 27.3	+13 16	DM. +13°2667	34	6 37 9.8	+10 50	DM. +10°1241

Cometen-Beobachtungen

angestellt auf der Sternwarte zu Kremsmünster von Prof. F. Schwab.

Datum	M. Z. Kr.	$\Delta\alpha$	$\Delta\delta$	Vgl.	α app.	$\log p.\Delta$	δ app.	$\log p.\Delta$	Red. ad l. app.	#
1886 Comet 1886 IX.										
Dec. 5	18 ^h 35 ^m 57 ^s	-0 ^m 38 ^s .00	+25' 20".0	6	16 ^h 3 ^m 0 ^s .76	9.582 ₁₁	+17° 55' 52".8	0.742	+0 ^s 56 + 0".9	1
21	18 40 1	+0 31.68	-29 44.9	5	18 35 52.96	9.604 ₁₁	+10 21 6.8	0.807	+0.91 +11.6	2
1886-87 Comet 1886 VII (Finlay).										
Nov. 21	6 24 15	+1 24.44	-11 25.7	6	20 24 50.84	9.334	-21 49 21.6	0.902	+1.72 +12.4	3
Dec. 15	7 57 15	-1 18.01	+ 9 51.6	6	22 26 23.28	9.469	-10 56 20.9	0.857	+1.96 +15.0	4
18	8 29 50	+1 35.39	-11 31.0	6	22 41 59.92	9.512	- 9 10 37.2	0.846	+2.00 +15.3	5
26	6 46 58	-1 0.25	- 8 20.8	12	23 22 32.12	9.244	- 4 21 29.2	0.841	+2.16 +15.5	6
Jan. 15	7 24 39	+0 27.60	+ 0 29.9	3	0 58 28.46	9.315	+ 7 20 15.1	0.767	-0.49 - 5.2	7
17	7 50 55	-0 20.23	- 0 20.4	12	1 7 26.66	9.388	+ 8 22 5.7	0.763	-0.46 - 5.3	8
18	7 22 25	+1 10.68	-10 19.5	12	1 11 43.50	9.308	+ 8 51 28.7	0.755	-0.45 - 5.2	9
19	7 12 23	+0 16.33	+13 53.3	12	1 16 3.93	9.273	+ 9 20 37.5	0.749	-0.44 - 5.4	10
22	7 17 30	+2 29.99	+ 1 10.9	10	1 28 55.55	9.289	+10 45 33.6	0.738	-0.41 - 5.4	11
25	7 0 33	-1 51.58	+ 3 17.7	11	1 41 23.80	9.224	+12 5 5.9	0.722	-0.34 - 5.6	12
26	8 36 26	+0 49.31	+11 40.2	4	1 45 45.60	9.481	+12 32 30.5	0.744	-0.35 - 5.6	13
27	7 35 20	-0 45.94	- 8 48.6	6	1 49 39.72	9.346	+12 56 8.1	0.722	-0.32 - 5.6	14