

*	Gr.	Ep.	α	δ	Autorität	*	Gr.	Ep.	α	δ	Autorität
15	8.7	92.3	11 ^h 36 ^m 54 ^s 27	+ 6° 6' 18".2	3 P. M.	34	8.9	92.7	22 ^h 12 ^m 8 ^s 54	— 8° 7' 29".6	3 P. M.
16	9.2	92.3	11 40 47.77	+ 5 25 8.0	4 P. M.	35	8.7	92.7	22 13 25.64	— 7 51 1.3	3 P. M.
17	9.5	92.3	11 45 33.10	+ 5 5 46.6	3 P. M.	36	9.9	92.7	22 18 42.37	— 13 17 56.6	Anschl. an 38
18	7.7	93.0	12 16 18.34	— 3 47 10.2	3 P. M.	37	8.0	92.7	22 18 57.95	— 13 30 16.6	3 P. M.
19	9.0	92.3	12 17 37.89	— 4 18 43.8	2 P. M.	38	8.7	92.7	22 20 22.90	— 13 20 53.7	3 P. M.
20	9.1	92.3	12 19 43.57	— 4 34 24.3	2 P. M.	39	8.5	92.7	22 22 23.71	— 12 26 29.9	3 P. M.
21	8.4	92.8	12 26 23.42	— 5 11 33.9	4 P. M.	40	9.1	92.7	22 28 53.95	— 11 56 11.5	3 P. M.
22	8.2	92.4	14 4 52.53	— 4 56 47.0	2 P. M.	41	9.0	92.7	22 55 49.07	— 12 39 43.6	3 P. M.
23	9.5	92.8	14 7 50.52	— 5 36 18.0	2 P. M.	42	7.8	92.7	23 1 44.99	— 12 23 24.9	3 P. M.
24	9.0	—	15 3 41	+ 5 9	BD. +5°2976	43	8.9	92.8	23 13 5.87	— 2 30 57.3	2 P. M.
25	9.0	92.4	15 11 58.60	+ 5 22 3.4	2 P. M.	44	9.2	92.7	23 14 30.41	— 2 11 44.7	3 P. M.
26	9.4	92.4	15 17 4.53	+ 5 16 10.4	1 P. M.	45	8.7	92.7	23 16 31.25	— 2 24 58.3	3 P. M.
27	9.3	92.4	15 25 12.47	+ 4 56 5.1	1 P. M.	46	9.2	92.8	23 18 54.60	— 7 17 44.6	3 P. M.
28	9.5	—	22 0 39	— 10 31	BD. — 10°5834	47	8.6	92.8	23 27 3.58	— 6 44 5.3	3 P. M.
29	9.2	92.7	22 2 9.02	— 10 11 55.0	2 P. M.	48	8.5	92.8	23 38 35.79	— 13 47 18.9	3 P. M.
30	9.1	92.7	22 7 44.77	— 8 45 47.5	3 P. M.	49	9.4	—	23 43 47	— 13 14	BD. — 13°6465
31	8.1	92.7	22 9 52.11	— 8 56 2.5	3 P. M.	50	9.6	—	23 44 19	— 13 22	BD. — 13°6467
32	8.5	92.7	22 11 7.57	— 7 41 12.4	3 P. M.	51	9.1	92.8	23 47 52.66	+ 15 25 43.3	1 P. M.
33	9.1	92.8	22 11 22.97	— 8 16 34.5	3 P. M.	52	8.8	92.8	23 50 31.65	+ 15 42 22.5	2 P. M.

Die Planeten Hebe, Antiope, Sibylla, Idunna und Germania sind am 30 Zöller beobachtet, die übrigen am 15 Zöller.

Die Vergleichsterne sind am hiesigen Meridiankreise von Herrn *Romberg* beobachtet worden.

Die fehlenden Sternpositionen, sowie die Sterne, welche nur einmal beobachtet sind, werden bei nächster Gelegenheit gegeben werden.

Bemerkungen.

Hebe. Mai 12. Wolken. — Mai 19, 20. Nebel. — Mai 27, Juni 7. Sehr schlechte Bilder.

Nysa. Aug. 26. Starker Wind. — Aug. 30. Nebel. — Sept. 7. Die Nähe des Mondes stört.

Antiope. März 31, Apr. 4. Sehr schlechte Bilder.

Aegle. Sept. 30. Sehr schlechte Bilder.

Klotho. Aug. 24. Wolken. — Aug. 26. Starker Wind. — Aug. 29. Starker Wind und sehr schlechte Bilder. — Sept. 7. Der Mond sehr nahe.

Meliboea. Oct. 11. Leichte Wolken.

Juewa. Sept. 1. Starker Wind. — Sept. 9. Der Mond sehr nahe.

Idunna. Apr. 27. Nebel.

Philomela. Sept. 15, 16. Nebel.

Germania. März 1. Sehr schlechte Bilder.

Eukrate. Oct. 7. Der Mond sehr nahe. Wolken. — Oct. 19. Leichte Wolken.

Pulkowo 1893 Mai 3.

W. Seraphimoff.

Observations of Comet 1892 VI at Windsor, N. S. Wales.

By John Tebbutt.

I herewith transmit to you my complete observations of this comet. They were all made with a square bar-micrometer in a dark field, the 4½ inch equatorial being employed on the first two dates and the 8 inch instrument on all the remaining dates. In November and December the comet had a fairly bright condensation. Subsequently this condensation grew fainter but at the same time smaller, and its gradual diminution facilitated observation at the edges of the micrometer bars. A faint tail was occasionally perceptible in the telescope during November, December and January. Owing to cloud or haze observations were unsatisfactory on December 20, 21, January 7, 25, February 28, March 13, 20, 24, 26, April 19, 21, 23. The comparison star of January 13 was double, and its observation therefore difficult; the brighter component was employed. The

observations of February 14, March 20, April 17, in consequence of the proximity of small stars, were made with difficulty. In the first seven comparisons of the last mentioned date the comet gradually approached a star of the 8th magnitude and in the last three comparisons both objects were observed as one. On this date too the comet and a small nebula somewhat brighter than itself could just be distinguished in the finder of 2.4 inches aperture by looking obliquely into the eyepiece. On April 20 the comet was seen as a faint condensed point, with scarcely any surrounding coma. After the withdrawal of the moon the comet was picked up on April 13 by extending Dr. Ristenpart's ephemeris in A. N. 3131. His extended ephemeris did not reach me till April 20.

1892-93	Winds. M.T.	Δ RA.	Δ NPD.	Cp.	RA. app.	$\log p. \Delta$	NPD. app.	$\log p. \Delta$	Red. ad l. app.	*
Nov. 28	15 ^h 49 ^m 38 ^s	+ 0 ^m 59 ^s 09	+ 0' 27".5	6	11 ^h 16 ^m 44 ^s 00	9.543 _n	103° 30' 27.2	0.543	+1 ^s 74 +4".6	1
29	15 24 8	+ 7 45.24	+18 23.9	8	11 21 43.44	9.592 _n	104 30 7.1	0.549	+1.77 +4.5	2
Dec. 8	14 38 20	- 0 52.62	+ 3 21.5	10	12 9 1.10	9.685 _n	113 14 28.7	0.510	+1.70 +5.5	3
8	15 17 40	- 1 7.75	+ 1 24.5	10	12 9 9.59	9.642 _n	113 16 2.8	0.447	+1.70 +5.5	4
8	15 44 36	- 3 5.55	- 7 47.5	4	12 9 15.86	9.601 _n	113 17 5.5	0.404	+1.69 +5.5	5
9	15 7 25	- 2 50.23	- 6 40.7	15	12 14 34.40	9.660 _n	114 9 48.9	0.453	+1.69 +5.6	6
9	15 7 25	- 3 11.33	- 4 44.2	15	12 14 34.36	9.660 _n	114 9 49.1	0.453	+1.69 +5.7	7
12	14 33 26	- 1 2.02	+11 27.5	12	12 30 58.17	9.707 _n	116 44 2.1	0.489	+1.72 +5.9	8
12	15 34 25	+ 0 36.22	- 3 53.2	10	12 31 11.93	9.640 _n	116 46 9.6	0.366	+1.72 +5.8	9
13	15 12 43	- 1 7.29	- 0 52.1	20	12 36 40.83	9.673 _n	117 34 44.2	0.401	+1.72 +6.0	10
13	15 12 43	- 1 35.82	- 9 9.9	20	12 36 41.05	9.673 _n	117 34 47.0	0.401	+1.71 +5.9	11
14	15 27 49	+ 1 13.03	- 0 27.2	12	12 42 19.50	9.660 _n	118 23 18.9	0.354	+1.73 +6.0	12
15	15 30 54	+ 6 18.80	+ 9 54.7	6	12 47 56.15	9.661 _n	119 10 4.6	0.335	+1.76 +6.0	13
15	15 30 54	+ 6 0.13	- 2 21.3	6	12 47 55.80	9.661 _n	119 10 4.2	0.335	+1.76 +5.9	14
20	14 59 26	- 1 4.04	+ 3 13.1	10	13 16 2.63	9.722 _n	122 40 49.4	0.376	+1.78 +6.6	15
21	14 50 33	+ 1 17.98	- 8 6.8	14	13 21 40.30	9.734 _n	123 18 30.6	0.397	+1.80 +6.6	16
23	14 46 14	+ 1 34.80	- 0 1.6	20	13 32 59.42	9.746 _n	124 29 55.4	0.401	+1.83 +6.7	17
23	14 46 14	+ 1 21.07	- 0 58.7	20	13 32 59.47	9.746 _n	124 29 54.5	0.401	+1.83 +6.7	18
24	14 46 29	- 4 4.58	- 6 18.9	10	13 38 40.09	9.750 _n	125 3 21.4	0.397	+1.83 +6.9	19
24	14 46 29	- 8 36.58	- 4 31.7	10	13 38 39.47	9.750 _n	125 3 25.0	0.397	+1.82 +7.0	20
28	14 23 6	+ 1 35.20	-10 23.5	5	14 1 5.73	9.778 _n	127 2 25.8	0.460	+1.92 +7.1	21
29	15 17 48	+ 2 13.84	+ 5 58.2	5	—	9.745 _n	—	0.273	+1.94 +7.2	22
29	15 17 48	+ 7 6.84	+ 6 20.8	5	14 6 54.50	9.745 _n	127 29 46.4	0.273	+1.92 +7.3	23
Jan. 2	14 13 49	- 0 54.54	- 8 59.8	4	14 28 46.80	9.796 _n	128 58 35.8	0.489	-1.71 -8.6	24
7	15 19 43	- 1 53.05	+ 0 28.4	12	14 55 52.09	9.773 _n	130 26 48.9	0.256	-1.72 -6.9	25
9	14 53 35	+ 3 45.73	+ 7 32.1	16	—	9.796 _n	—	0.367	-1.67 -6.6	26
9	14 53 35	+ 3 12.07	+ 6 45.6	16	—	9.796 _n	—	0.367	-1.68 -6.6	27
13	15 22 2	+ 3 19.75	+ 0 22.3	20	15 26 30.61	9.784 _n	131 33 12.4	0.250	-1.66 -5.3	28
15	14 51 58	- 3 46.07	- 4 22.4	7	15 36 9.59	9.806 _n	131 47 30.5	0.383	-1.68 -4.3	29
16	15 7 5	+ 1 4.19	+ 1 39.5	20	15 40 59.89	9.799 _n	131 53 32.4	0.325	-1.64 -4.3	29
17	15 17 35	+ 5 49.37	+ 6 51.7	12	15 45 45.11	9.793 _n	131 58 44.7	0.281	-1.60 -4.2	29
17	15 17 35	+ 1 36.56	+ 0 17.8	12	—	9.793 _n	—	0.281	-1.62 -4.0	30
18	14 48 22	+ 6 10.40	+ 4 32.5	2	—	9.810 _n	—	0.402	-1.58 -4.0	30
18	14 48 22	+ 4 10.46	+ 6 23.7	2	—	9.810 _n	—	0.402	-1.59 -3.8	31
19	15 39 29	+ 7 8.45	-10 24.7	8	15 55 4.03	9.777 _n	132 6 45.5	0.172	-1.57 -3.8	32
20	15 20 26	+ 4 9.30	- 2 37.1	10	—	9.793 _n	—	0.273	-1.57 -3.3	33
20	15 20 26	+ 3 4.23	- 1 54.7	10	—	9.793 _n	—	0.273	-1.57 -3.2	34
25	15 8 48	+ 9 15.97	-10 19.0	2	16 21 5.36	9.803 _n	132 14 18.7	0.332	-1.46 -2.3	35
25	15 8 48	+ 1 23.68	+ 0 53.2	2	—	9.803 _n	—	0.332	-1.49 -1.8	36
26	15 35 29	+ 5 34.70	+ 0 8.2	10	—	9.784 _n	—	0.206	-1.45 -1.8	36
27	15 45 42	+ 9 38.74	- 1 13.9	6	—	9.775 _n	—	0.150	-1.41 -1.8	36
28	14 43 33	-13 17.01	- 0 36.7	2	16 33 8.34	9.814 _n	132 10 23.5	0.429	-1.50 -0.4	37
28	14 43 33	-13 43.72	- 7 40.9	2	16 33 8.25	9.814 _n	132 10 22.9	0.429	-1.51 -0.4	38
Febr. 3	16 7 17	+ 2 11.02	- 4 8.1	10	16 55 42.99	9.748 _n	131 50 29.2	0.006	-1.29 +0.1	39
8	15 41 20	+ 6 6.32	- 8 46.5	4	—	9.769 _n	—	0.175	-1.14 +0.8	40
8	15 41 20	- 1 12.35	- 2 14.6	4	—	9.769 _n	—	0.175	-1.17 +1.1	41
8	15 41 20	- 4 51.06	+ 0 33.6	4	—	9.769 _n	—	0.175	-1.19 +1.3	42
9	15 56 14	- 1 39.47	- 5 32.6	10	—	9.753 _n	—	0.082	-1.15 +1.3	42
13	15 7 31	+ 3 18.61	- 4 49.3	10	17 27 28.29	9.789 _n	130 52 35.2	0.325	-1.01 +1.6	43
13	15 7 31	+ 0 45.49	- 4 23.6	10	17 27 28.46	9.789 _n	130 52 34.2	0.325	-1.02 +1.7	44
14	15 21 50	+ 6 10.60	-11 52.6	11	17 30 20.32	9.777 _n	130 45 31.9	0.261	-0.97 +1.6	43
14	15 21 50	+ 3 37.43	-11 26.5	11	17 30 20.43	9.777 _n	130 45 31.3	0.261	-0.99 +1.7	44
21	15 23 43	+ 7 12.91	+ 0 53.9	10	17 48 26.85	9.762 _n	129 52 30.2	0.228	-0.76 +2.5	45
21	15 23 43	+ 5 45.48	-10 51.9	10	17 48 26.80	9.762 _n	129 52 28.8	0.228	-0.77 +2.5	46
21	15 23 43	- 0 54.83	- 2 25.9	10	—	9.762 _n	—	0.228	-0.80 +2.7	47
25	15 26 42	+ 4 35.96	+ 5 38.7	11	17 57 28.43	9.749 _n	129 19 55.5	0.193	-0.65 +2.9	48

1893	Winds.M.T.	Δ RA.	Δ NPD.	Cp.	RA. app.	$\log p.\Delta$	NPD. app.	$\log p.\Delta$	Red. ad l. app.	*
Febr. 25	15 ^h 26 ^m 42 ^s	— 7 ^m 34 ^s 13	— 1' 59".6	11	17 ^h 57 ^m 28 ^s 30	9.749 _n	129° 19' 56".7	0.193	— 0.571 + 3".2	49
27	15 43 7	+ 11 24.80	— 2 0.4	8	18 1 40.22	9.725 _n	129 3 9.5	0.095	— 0.56 + 2.9	50
27	15 43 7	+ 9 7.48	— 0 2.2	8	—	9.725 _n	—	0.095	— 0.57 + 3.0	51
27	15 43 7	— 3 52.87	— 7 46.1	8	18 1 40.12	9.725 _n	129 3 8.8	0.095	— 0.63 + 3.2	52
28	15 52 43	— 10 7.86	— 9 20.8	7	18 3 41.50	9.709 _n	128 54 42.2	0.026	— 0.63 + 3.3	53
28	15 59 56	— 12 30.23	+ 0 18.2	6	—	9.698 _n	—	9.978	— 0.64 + 3.4	54
Mar. 13	14 41 36	+ 0 51.40	+ 10 54.6	4	18 24 46.97	9.745 _n	127 3 49.8	0.292	— 0.18 + 3.8	55
14	15 35 6	+ 2 9.67	+ 2 4.6	23	18 26 5.28	9.675 _n	126 54 59.8	0.026	— 0.14 + 3.8	55
18	15 38 8	+ 3 55.48	— 6 45.0	10	18 30 37.94	9.647 _n	126 20 31.6	9.961	0.00 + 3.8	56
18	15 38 8	— 1 28.74	+ 1 32.9	10	18 30 38.08	9.647 _n	126 20 49.3	9.961	— 0.03 + 3.9	57
20	15 15 37	— 5 31.52	+ 6 18.8	6	18 32 36.50	9.674 _n	126 4 9.9	0.077	+ 0.02 + 3.9	58
21	14 27 7	— 4 39.42	— 1 52.1	10	18 33 28.63	9.730 _n	125 55 59.0	0.285	+ 0.05 + 3.9	58
21	14 27 7	— 3 40.52	—	10	18 33 28.94	9.730 _n	—	—	+ 0.06 —	59
23	14 46 1	— 1 59.09	— 5 45.2	20	18 35 10.44	9.700 _n	125 39 5.0	0.189	+ 0.13 + 3.9	59
24	15 10 36	+ 10 32.78	+ 5 7.2	10	18 35 56.62	9.659 _n	125 30 39.5	0.059	+ 0.23 + 4.0	60
24	15 10 36	+ 6 40.11	— 1 18.5	10	18 35 56.54	9.659 _n	125 30 37.3	0.059	+ 0.21 + 4.0	61
24	15 10 36	+ 3 25.31	+ 7 27.1	10	18 35 56.46	9.659 _n	125 30 40.0	0.059	+ 0.19 + 4.0	62
26	15 46 35	+ 4 49.00	— 9 22.6	5	18 37 20.23	9.572 _n	125 13 50.2	9.805	+ 0.27 + 3.9	62
26	15 46 35	+ 4 10.28	— 1 28.0	5	—	9.572 _n	—	9.805	+ 0.27 + 4.0	63
26	15 47 21	+ 1 57.71	— 1 33.8	4	—	9.570 _n	—	9.796	+ 0.25 + 4.0	64
April 13	14 53 17	+ 0 26.35	+ 8 56.3	15	18 41 7.00	9.525 _n	122 49 32.1	9.910	+ 0.87 + 4.3	65
13	14 53 17	— 0 57.78	— 0 11.2	15	18 41 7.19	9.525 _n	122 49 35.0	9.910	+ 0.87 + 4.2	66
17	14 24 50	— 6 51.27	+ 11 0.2	10	18 39 54.27	9.552 _n	122 18 18.7	9.999	+ 0.98 + 4.1	67
19	14 30 39	— 0 38.75	+ 1 18.1	4	—	9.512 _n	—	9.947	+ 1.08 + 4.4	68
19	14 30 39	— 2 26.16	—	4	18 39 0.97	9.512 _n	—	—	+ 1.08 —	69
19	14 30 39	— 7 44.71	— 4 51.2	4	18 39 0.90	9.512 _n	122 2 27.3	9.947	+ 1.05 + 4.1	67
20	13 58 26	— 1 7.87	— 6 16.1	11	—	9.581 _n	—	0.075	+ 1.12 + 4.3	68
20	13 58 26	— 2 55.51	— 3 59.9	11	18 38 31.65	9.581 _n	121 54 54.4	0.075	+ 1.11 + 4.3	69
21	14 53 14	+ 1 35.61	+ 2 16.1	2	—	9.407 _n	—	9.812	+ 1.17 + 4.5	70
21	14 53 14	— 2 19.50	— 4 32.6	2	18 37 57.62	9.407 _n	121 46 41.9	9.812	+ 1.15 + 4.3	71
22	15 37 31	+ 2 17.06	+ 4 1.8	9	18 37 19.73	9.144 _n	121 38 45.7	9.592	+ 1.21 + 4.6	72
22	15 37 31	+ 0 58.20	— 5 42.3	9	18 37 19.89	9.144 _n	121 38 44.0	9.592	+ 1.20 + 4.5	73
23	14 5 21	+ 1 42.31	— 3 29.6	18	18 36 45.01	9.530 _n	121 31 14.3	0.011	+ 1.24 + 4.6	72
23	14 5 21	— 0 58.74	+ 0 47.3	18	18 36 45.27	9.530 _n	121 31 17.6	0.011	+ 1.23 + 4.5	74

Mean Places of the Comparison Stars for the Beginning of the Year of Observation.

*	RA.	NPD.	Authority	*	RA.	NPD.	Authority
1	11 ^h 15 ^m 43 ^s 17	103° 29' 30".1	Lal. 21639	11	12 ^h 38 ^m 15 ^s 16	117° 43' 51".0	Cape Cat. (1850) 2276, AOe ₂
2	11 13 56.43	104 11 38.7	Naut. Alm. 1892				12377, Wash. Mur. Z.
3	12 9 52.02	113 11 1.7	AOe ₂ 12024				105.124, Wash. Tr. Z.
4	12 10 15.64	113 14 32.8	AOe ₂ 12034				234.3, Y ₃ 5413, 10 yr.
5	12 12 19.72	113 24 47.5	Lal. 23027, AOe ₂ 12058-9				1988, Stone 7043
6	12 17 22.94	114 16 24.0	Y ₃ 5255, Stone 6880	12	12 41 4.74	118 23 40.1	Wash. Mur. Z. 164.9, Wash.
7	12 17 44.00	114 14 27.6	Cape Cat. (1850) 2221, Y ₃				Mer. Z. 92.66
			5260, Stone 6885	13	12 41 35.59	119 0 3.9	Wash. Mer. Z. 91.91
8	12 31 58.47	116 32 28.7	AOe ₂ 12289-90, Y ₃ 5365,	14	12 41 53.91	119 12 19.6	AOe ₂ 12420, Wash. Tr. Z.
			Quet. 5169, Stone 7000,				116.22, Wash. Mer. Z.
			10 yr. 197				91.92
9	12 30 33.99	116 49 57.0	AOe ₂ 12270, Wash. Mur. Z.	15	13 17 4.89	122 37 29.7	Stone 7332
			112.21	16	13 20 20.52	123 26 30.8	Stone 7359
10	12 37 46.40	117 35 30.3	AOe ₂ 12368, Wash. Mur. Z.	17	13 31 22.79	124 29 50.3	Y ₃ 5713, Stone 7462
			105.123, Wash. Tr. Z.	18	13 31 36.57	124 30 46.5	Y ₃ 5714, Stone 7466
			234.2	19	13 42 42.84	125 9 33.4	Y ₃ 5782, Stone 7556

*	RA.	NPD.	Authority	*	RA.	NPD.	Authority
20	13 ^h 47 ^m 14 ^s 23	125° 7' 49".7	Cape Cat. (1850) 2471, Y ₃ 5829, Stone 7604	49	18 ^h 5 ^m 3 ^s 14	129° 21' 53".1	Stone 9904
21	13 59 28.61	127 12 42.2	Y ₃ 5916, Stone 7711	50	17 50 15.98	129 5 7.0	Stone 9772
22	14 4 38.7	127 23 41	Star 9 mag. Equatorial	51	17 52 33.2	129 3 9	Star 8 mag. Equatorial
23	14 13 59.42	127 23 18.3	Y ₃ 6016, Stone 7821	52	18 5 33.62	129 10 51.7	Stone 9908
24	14 29 43.05	129 7 44.2	Y ₃ 6119, Stone 7945	53	18 13 49.99	129 3 59.7	Stone 9990
25	14 57 46.86	130 26 27.4	Stone 8189	54	18 16 13.0	128 54 22	Star 8½ mag. Equatorial
26	15 2 27.9	130 45 47	Star 7½ mag. Equatorial	55	18 23 55.75	126 52 51.4	Y ₃ 7982, Stone 10078
27	15 3 1.6	130 46 37	Star 7½ mag. Equatorial	56	18 26 42.46	126 27 12.8	Wash. Mur. Z. 49.3
28	15 23 12.52	131 32 55.4	Stone 8421	57	18 32 6.85	126 19 12.5	Wash. Mur. Z. 49.5
29	15 39 57.34	131 51 57.2	Stone 8564	58	18 38 8.00	125 57 47.2	Y ₃ 8087, Stone 10194
30	15 44 10.3	131 58 57	Star 9 mag. Equatorial	59	18 37 9.40	125 44 46.3	Sydney Cat. 1859, Melb ₂ 934, Stone 10183
31	15 46 10.1	131 57 6	Star 9 mag. Equatorial	60	18 25 23.61	125 25 28.3	Wash. Tr. Z. 44.47, Y ₃ 7993, Stone 10086
32	15 47 57.15	132 17 14.0	Stone 8635	61	18 29 16.22	125 31 51.8	Wash. Tr. Z. 44.48
33	15 55 23.7	132 11 50	Star 9 mag. Equatorial	62	18 32 30.96	125 23 8.9	Wash. Tr. Z. 44.49
34	15 56 28.7	132 11 20	Star 9 mag. Equatorial	63	18 33 9.4	125 15 14	Star 8½ mag. Equatorial
35	16 11 50.85	132 24 40.0	Stone 8860	64	18 35 22.0	125 15 19	Star 9 mag. Equatorial
36	16 19 42.7	132 13 28	Star 9½ mag. Equatorial	65	18 40 39.78	122 40 31.5	Wash. Mur. Z. 25.77
37	16 46 26.85	132 11 0.6	Cape Cat. (1850) 3129, Stone 9160	66	18 42 4.10	122 49 42.0	Wash. Mur. Z. 25.78, Cape Cat. (1850) 3668, Stone 10228
38	16 46 53.48	132 18 4.2	Cape Cat. (1850) 3135, Stone 9169	67	18 46 44.56	122 7 14.4	Wash. Mur. Z. 25.79, Cape Cat. (1850) 3692, Stone 10275
39	16 53 33.26	131 54 37.2	Stone 9242	68	18 39 38.4	122 1 5	Star 8 mag. Equatorial
40	17 6 15.1	131 33 48	Star 9 mag. Equatorial	69	18 41 26.05	121 58 50.0	Wash. Tr. Z. 30.79
41	17 13 33.5	131 27 16	Star 9½ mag. Equatorial	70	18 36 20.6	121 44 22	Star 9 mag. Equatorial
42	17 17 12.1	131 24 28	Star 9 mag. Equatorial	71	18 40 15.97	121 51 10.2	Wash. Tr. Z. 30.78
43	17 24 10.69	130 57 22.9	Stone 9537	72	18 35 1.46	121 34 39.3	Wash. Mur. Z. 39.24, Y ₃ 8063
44	17 26 43.99	130 56 56.1	Stone 9565	73	18 36 20.49	121 44 21.8	Y ₃ 8072
45	17 41 14.70	129 51 33.8	Stone 9683	74	18 37 42.78	121 30 25.8	Wash. Mur. Z. 39.26
46	17 42 42.09	130 3 18.2	Cape Cat. (1850) 3388, Stone 9707				
47	17 49 22.1	129 54 51	Star 8½ mag. Equatorial				
48	17 52 53.12	129 14 13.9	Stone 9798				

Private Observatory, The Peninsula, Windsor, N. S. Wales, 1893 May 5.

John Tebbutt.

Ueber die leuchtenden Nachtwolken.

In der Nacht vom 8. zum 9. Juli d. J. sind die leuchtenden Nachtwolken an mehreren Orten in Norddeutschland zum ersten Male in diesem Jahre gesehen worden.*) Kurz vor 10½^h Abends Ortszeit sah ich sie von Steglitz aus am NW-Himmel. Das Licht derselben war aber sehr schwach, so dass dasselbe sich kaum von dem Dämmerungshimmel abhob. Um 11^h war das Phänomen verschwunden. Nach Mitternacht gegen 14^h sah ich dagegen die leuchtenden Nachtwolken an der Nordseite des Himmels bis zu einer Höhe von etwa 5° recht hell. Herr *F. S. Archenhold*,

Sternwarte Grunewald bei Berlin, hat das Phänomen ebenfalls beobachtet; auch in Hamm bei Hamburg ist nach einer brieflichen Mittheilung dasselbe gegen 12¼^h gesehen worden.

Bemerkenswerth erscheint auch hierbei die Thatsache, auf welche bereits in A. N. 3120 aufmerksam gemacht worden ist, dass das Phänomen Nachmittags wesentlich stärker entwickelt ist als Vormittags, wie es auch Nachmittags viel häufiger beobachtet worden ist als Vormittags.

Berlin, Sternwarte, 1893 Juli 10.

O. Fesse.

*) In Kiel waren ebenfalls am 8. Juli die leuchtenden Nachtwolken sehr auffällig. Prof. *E. Lamp* hat dieselben bereits am 15. und 16. Juni 11^h Abends bemerkt. *Kr.*