

New Nebula near General Catalogue No. 4510.

I have found (on Aug. 17th 1884) an excessively faint nebula in the field with and south of the small bright planetary nebula No. 4510 of Herschel's Gen. Cat. — From a mean of two equatorial pointings I make its place

$$\left. \begin{aligned} \alpha &= 19^{\text{h}} 38^{\text{m}} 25^{\text{s}} \\ \delta &= -15^{\circ} 2' 50'' \end{aligned} \right\} 1884.0$$

It is some 2' diameter, and is very diffuse and even in its light. With 6 inch Equatoreal it is very difficult to see, with 5 inch and a power of $30 \pm$ (field about $1\frac{1}{4}^{\circ}$) it is quite distinct. This should be borne in mind in looking for it.

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Further Observations of Comet 1884 II (Barnard).

(Schreiben an den Herausgeber.)

By a former mail I forwarded to you observations of this Comet taken here in July, and I have now much pleasure in sending to you those obtained during August. The Comet was throughout the whole period very faint and difficult of observation. On the 22nd August it was hardly distinguishable in a dark field and the moon below the horizon. All the positions have been determined with the square bar-micrometer referred to in my former communications. In all those cases where the stars of comparison are contained in Stone's Cape Catalogue the mean places have been brought up by means of the precessions and secular variations of that Catalogue. In all other cases the precessions have been computed for the mean epochs. Proper motion has not been applied.

1884	Winds. M. T.	Δ RA.	Δ NPD.	Comp.	RA. app.	$\log p \cdot \Delta$	NPD. app.	$\log p \cdot \Delta$	Red. ad l. app.	*
Aug. 2	9 ^h 8 ^m 57 ^s	+ 2 ^m 2 ^s 83	+ 12' 42".3	6	—	9.359	—	9.424 _n	+3.82 +3".8	7
2	9 8 57	+ 1 49.13	+ 4 27.5	6	—	9.359	—	9.424 _n	+3.83 +3.8	8
2	9 8 57	— 1 24.31	+ 18 23.8	6	—	9.359	—	9.424 _n	+3.84 +3.4	9
2	9 8 57	— 3 34.75	+ 13 34.1	6	16 ^h 27 ^m 48 ^s 54	9.359	127° 12' 34".0	9.424 _n	+3.86 +3.2	10
2	9 8 57	— 5 16.25	+ 17 3.8	6	16 27 48.29	9.359	127 12 34.5	9.424 _n	+3.86 +3.0	11
4	8 40 9	+ 4 33.37	+ 15 37.8	3	—	9.203	—	9.627 _n	+3.81 +3.5	9
4	8 40 9	+ 2 22.86	+ 10 48.9	3	16 33 46.12	9.203	127 9 48.9	9.627 _n	+3.83 +3.3	10
6	10 26 23	+ 8 53.37	+ 6 37.4	7	16 40 16.59	9.615	127 5 37.4	9.761	+3.79 +3.3	10
6	10 26 23	+ 5 13.46	— 1 23.0	7	16 40 16.87	9.615	127 5 35.4	9.761	+3.82 +3.0	12
6	10 26 23	— 0 37.33	+ 3 10.1	7	—	9.615	—	9.761	+3.85 +2.4	13
6	10 26 23	— 2 58.03	— 13 11.2	7	16 40 16.78	9.615	127 5 34.3	9.761	+3.88 +2.3	14
8	9 29 56	+ 5 50.56	— 2 6.6	10	—	9.464	—	8.395 _n	+3.82 +2.5	13
8	9 29 56	+ 3 29.69	— 18 28.5	10	16 46 44.46	9.464	127 0 17.0	8.395 _n	+3.84 +2.3	14
8	9 29 56	— 1 40.28	+ 0 24.7	10	16 46 44.35	9.464	127 0 21.0	8.395 _n	+3.86 +1.8	15
9	9 13 4	— 8 28.16	— 6 50.4	7	16 50 5.63	9.400	126 57 8.6	9.195 _n	+3.90 +0.8	16
9	9 13 4	— 8 31.46	+ 0 50.9	7	16 50 5.23	9.400	126 57 8.5	9.195 _n	+3.89 +0.8	17
10	8 26 9	— 5 8.17	— 10 7.2	2	16 53 25.60	9.124	126 53 51.8	9.633 _n	+3.88 +0.8	16
10	8 26 9	— 5 11.40	— 2 25.0	2	16 53 25.28	9.124	126 53 52.6	9.633 _n	+3.88 +0.8	17
11	8 34 13	— 1 39.03	— 6 17.1	2	16 56 57.63	9.190	126 50 0.6	9.582 _n	+3.86 +0.9	17
11	9 15 13	— 1 29.94	— 14 20.1	12	16 57 3.82	9.412	126 49 39.0	9.056 _n	+3.87 +0.9	16
12	8 41 31	+ 2 0.02	— 18 18.9	6	17 0 33.76	9.242	126 45 40.2	9.520 _n	+3.85 +0.9	16
13	9 36 37	+ 5 42.03	— 15 42.3	6	17 4 18.66	9.492	126 40 35.4	9.021	+3.83 +0.9	17
14	8 56 17	— 13 14.51	— 5 2.3	4	17 7 54.60	9.329	126 35 43.2	9.329 _n	+3.92 —1.3	18
14	9 5 13	— 12 5.96	+ 10 15.3	3	17 7 55.56	9.372	126 35 38.5	9.176 _n	+3.91 —1.3	19
16	10 4 27	— 4 26.36	— 1 41.3	10	17 15 35.12	9.571	126 23 42.0	9.651	+3.87 —1.2	19
16	10 4 27	— 5 33.70	— 17 3.4	10	17 15 35.37	9.571	126 23 42.2	9.651	+3.88 —1.2	18
18	9 6 0	+ 3 6.74	— 14 44.9	10	17 23 8.18	9.376	126 10 38.5	8.899 _n	+3.88 —1.1	19
22	10 6 32	— 1 18.41	— 13 18.6	12	17 39 12.28	9.572	125 37 39.3	9.759	+3.84 —3.1	20
22	10 6 32	— 6 1.87	+ 2 14.4	12	17 39 12.01	9.572	125 37 41.4	9.759	+3.85 —3.6	21