

Positions moyennes des étoiles de comparaison.

* AR. 1898.0	DP. 1898.0	Autorité	* AR. 1898.0	DP. 1898.0	Autorité
1 22 <sup>h</sup> 32 <sup>m</sup> 10 <sup>s</sup> .85	54° 52' 35".9	W <sub>2</sub> 22 <sup>h</sup> 687	14 3 <sup>h</sup> 51 <sup>m</sup> 2 <sup>s</sup> .96	33° 43' 9".6	BB. VI + 56° 865
2 22 36 24.89	54 16 5.6	BB. VI + 35° 4864	15 16 11 58.00	117 47 23.7	Stone 8858
3 23 2 29.04	50 0 0.0	W <sub>2</sub> 22 <sup>h</sup> 1383	16 16 5 57.74	118 9 5.6	Stone 8806
4 23 26 21.02	46 13 22.9	An. rapp. à Rad <sub>1</sub> 6132	17 16 7 18.37	118 47 41.6	Stone 8818
5 23 50 24.66	43 12 42.4	Rad <sub>1</sub> 6217	18 16 4 41.87	119 8 46.7	Stone 8793
6 23 57 35.81	42 29 19.9	An. rapp. à BB. VI + 47° 4368	19 15 56 28.92	120 39 24.4	Stone 8713
7 0 6 38.51	42 24 56.7	Rad <sub>1</sub> 16	20 3 46 47.36	32 5 32.4	An. rapp. à * 21
8 0 28 33.55	39 33 55.8	Rad <sub>1</sub> 136	21 3 45 25.94	32 19 41.0	Paris 4508
9 1 44 45.62	35 34 52.9	Rad <sub>1</sub> 532	22 4 6 37.77	32 48 2.1	An. rapp. à Paris 4886
10 2 20 13.49	34 38 39.7	An. rapp. à Rad <sub>1</sub> 717	23 20 15 36.34	111 44 15.3	AOe <sub>2</sub> 20433
11 2 33 45.46	34 10 7.4	Paris 3267	24 18 15 30.51	112 4 7.9	BB. VI 18 <sup>h</sup> 51
12 2 53 50.06	34 1 1.3	Lal. 5450	25 18 1 4.21	111 27 14.0	Yarnall 7631
13 3 38 8.48	33 57 33.3	Paris 4381	26 15 43 52.58	104 13 38.3	Yarnall 6517

Remarques. Pour la Comète 1898 I, le 23 (2<sup>e</sup> série) et le 25 avril le ciel se couvre. La Comète Giacobini, le 9 Juillet, est excessivement faible et les pointés sont très difficiles.

Besançon, le 15 Juillet 1898.

Le Directeur de l'Observatoire:

L. J. Gruyey.

Meridian Circle Observations of Comet 1898... (Coddington-Pauly).

The following determinations are in continuation of the series published in A.N. No. 3505.

Moonlight has now closed observations.

By computing, from the entire series, the rate of motion, with respect to the third order of differences, the probable errors of a determination would appear to be: ±0.2 RA. and ±2" Decl. But this method of checking is only approximate, and the determinations are probably much sharper, since the Comet has been, in general, not a difficult object to observe.

1898	Gr. M. T.	RA. app.	Decl. app.	Wt.
June 20	18 <sup>h</sup> 2 <sup>m</sup> 17 <sup>s</sup> .8	15 <sup>h</sup> 53 <sup>m</sup> 33 <sup>s</sup> .18	-30° 50' 37".8	4
22	17 47 19.9	15 46 25.93	-32 0 40.7	3
23	17 39 51.3	15 42 52.60	-32 34 50.9	4
24	17 32 22.3	15 39 18.96	-33 8 36.4	5
25	17 24 54.5	15 35 46.54	-33 41 39.2	3
27	17 10 1.5	15 28 44.14	-34 45 58.4	2
28	17 2 36.7	15 25 14.67	-35 17 7.4	4

Lick Observatory, University of California, 1898 June 30.

R. H. Tucker.

Nebulae which are not recorded in the Catalogues

found upon Photographs by Isaac Roberts D. Sc. F. R. S.

Nebula in Monoceros in which the star 7.3 mag. BD. -10° 18' 48" is involved together with several other faint stars. The nebula is irregularly round, bright, with a wide nebulous band across it in s. f. to n. p. direction. The nebula is about 13 minutes of arc in diameter; coordinates of the star for the epoch 1855 RA. 6<sup>h</sup> 57<sup>m</sup> 33<sup>s</sup>.6, Dec. south 10° 14' 4"; mag. 7.3.

The nebula N.G.C. No. 2403 H.V. 44 Camelopardi RA. 7<sup>h</sup> 27<sup>m</sup>, Dec. north 65° 50' is a bright right-hand spiral

Starfield, Crowborough, 1898 May 3<sup>rd</sup>.

with several bright stars involved and numerous stellar condensations in the spirals; resembles M 33 Trianguli; major diameter from s. f. to n. p. about 18 minutes of arc in length.

The nebula N.G.C. 2404 (Bigourdan) appears to be one of the numerous nebulous stars which form parts of this spiral nebula. There are also other small faint stars involved in nebulosity within the distance of one degree of this nebula.

Isaac Roberts.

Inhalt:

Zu Nr. 3508-09. A. Auwers. Vorläufige Verbesserung des Fundamentalcatalogs für die Zonenbeobachtungen der Astronomischen Gesellschaft und seiner südlichen Fortsetzung. (Publ. XIV und XVII der Astr. Ges.) 49. — W. Stratonoff. Note sur les photographies des nébuleuses obtenues à l'Observatoire de Meudon. 83. — L. J. Gruyey. Observations de Comètes. 85. — R. H. Tucker. Meridian Circle Observations of Comet 1898... (Coddington-Pauly). 87. — I. Roberts. Nebulae which are not recorded in the Catalogues. 87.

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