

Nebulæ discovered and observed at the Observatory of Marseilles.

By M. Stéphan.

(Communicated by M. Stéphan through Mr. Hind.)

Mean R.A. and N.P.D. for 1873.0

No.	R.A.			N.P.D.			Comparison-Star.
	h	m	s	°	'	"	
1	2	8	55.19	61	59	25.2	a
2	18	23	38.27	67	10	21.1	b
3	18	41	18.79	57	51	8.7	c
4	19	51	32.23	57	58	58.9	d
5	21	9	53.99	91	21	14.8	e
6	22	9	50.36	53	21	13.9	f
7	22	10	7.11	53	20	12.1	f
8	22	45	11.42	53	35	8.6	g
9	22	47	22.35	58	32	39.3	h
10	22	55	55.98	63	37	55.2	i
11	23	16	6.70	78	48	5.5	k
12	23	16	26.36	78	42	43.4	k
13	23	32	33.54	102	55	37.0	l
14	23	38	59.16	63	23	9.5	m
15	23	51	34.73	74	12	39.4	n

Notes.

- i. Exceedingly small and faint; irregular.
2. Very small and faint; round, with a condensation in the centre.
3. Of moderate extent and of irregular form; exceedingly faint and diffused.
4. Very small and exceedingly faint; surrounds three small stars.
5. Very small and exceedingly faint; this nebula has two condensations on the same parallel. The observation refers to the first point of condensation.
6. Exceedingly small and faint; in contact in the N. with a very small star.
7. Very small and faint; vaporous, with a slight condensation in the centre; a small star projecting.
8. Very small and exceedingly faint; round, with a condensation in the centre.
9. Vaporous; very small and exceedingly faint.
10. Exceedingly small and faint, with a condensation in the centre.
11. Small and exceedingly faint; roundish, but of irregular form; diffused, with a slight condensation in the centre.
12. Irregularly round, of moderate extent; faint and diffused, with a slight condensation in the centre.
13. Exceedingly faint and of moderate extent; irregular.
14. Very faint and minute; roundish, with an eccentric condensation.
15. Exceedingly small and faint, with a condensation in the centre.

Mean R.A. and N.P.D. of the Comparison-Stars for 1873.0.

	Name of Star.	Mag.	R.A.			N.P.D.			Authority.
			h	m	s	°	'	"	
<i>a</i>	B.A.C. 710	6½	2	11	36.01	61	56	41.7	B.A.C.
<i>b</i>	Lalande 34322	7½	18	26	7.80	67	6	13.0	Lalande.
<i>c</i>	W. B. (2) XVIII. 1221	9	18	40	55.62	57	49	50.8	W. B. (2).
<i>d</i>	W. B. (2) XIX. 1790	8.9	19	55	1.50	57	54	28.0	W. B. (2).
<i>e</i>	W. B. (1) XXI. 131	8.9	21	8	8.57	91	21	25.1	W. B. (1).
<i>f</i>	W. B. (2) XXII. 253	9.	22	11	17.04	53	24	9.1	W. B. (2).
<i>g</i>	Lalande 44751	9	22	45	56.17	53	36	27.2	Lalande.
<i>h</i>	W. B. (2) XXII. 1135	9	22	49	56.87	58	32	22.8	W. B. (2).
<i>i</i>	Rümker XXII. 10797	...	22	55	3.47	63	41	6.8	Rümker.
<i>k</i>	W. B. (1) XXIII. 397	9	23	20	56.69	78	45	50.3	W. B. (1).
<i>l</i>	W. B. (1) XXIII. 618	9	23	31	6.68	102	54	15.9	W. B. (1).
<i>m</i>	W. B. (2) XXIII. 868	8	23	41	13.62	63	31	33.9	W. B. (2).
<i>n</i>	W. B. (1) XXIII. 1133	9	23	55	54.18	74	16	46.8	W. B. (1).

Elements of Tempel's Comet of July 3 (Comet II., 1873).

By Mr. W. E. Plummer.

(Communicated by Mr. Bishop.)

The following elements are computed from the observations made at Clinton, U.S. and Ann Arbor on July 5, at Marseilles on August 30, and at Twickenham on October 20. All small corrections are taken into account and the Marseilles observation is represented within the errors:—

C—O

$$dl \cos b \quad -4.2$$

$$db \quad 0.0$$

T June 25.377714 G.M.T.

π	306	9	43.15	} M. eq. 1873.0
Ω	120	54	9.06	
i	12	43	20.20	

log. a 0.4697541log. μ 2.8453752

Period 1850 days.

The Observatory, Twickenham,
1873, December 9.