

2279. *T Monocerotis*.

This star was observed forty-four times, from 1894 November 19 to 1895 April 16. The following maxima and minima are indicated:

MAXIMA.	wt.	MINIMA	wt.
1894-5 Local M.T.		1894-5 Local M.T.	
Nov. 13.05	2	Nov. 28.61	4
Jan. 5.34	2	Dec. 26.43	4
31.95	2	Jan. 24.11	4
Feb. 28.29	3	Feb. 15.31	4
Mar. 27.60	2	Mar. 18.91	4
		Apr. 11.74	2

2375. *S Monocerotis*.

A series of observations of *S Monocerotis* was undertaken during the winter of 1894-95, with the object of satisfying myself as to the star's variability, which has always appeared to me questionable. Thirty-one observations were obtained, from 1894 November 19 to 1895 March 3.

The comparison-stars employed, with the magnitudes assigned, are as follows:

F.13 <i>Monocerotis</i>	4.8
<i>e Geminorum</i>	5.0
F.17 <i>Monocerotis</i>	5.1

The result of the observations seems to demonstrate the star's constancy during their continuance. The mean deviation of the star's observed brightness from a mean of 4^m.89 was only 0^m.04, a quantity well within the probable error of a single observation; the extreme magnitudes observed were 4^m.71 and 5^m.04, each upon a single occasion only.

2676. *U Monocerotis*.

Seventeen observations, from 1894 December 26 to 1895 March 23, indicate a well-determined maximum of 6^m.05 on 1895 January 22, a less certainly defined one of 6^m.6 on 1895 March 3, and a sharply defined minimum of 6^m.9 on 1895 February 13. At the last observation the star had decreased to 7^m.1.

Dorchester, Mass., 1895 October 14.

4511. *T Ursae Majoris*.

Fourteen observations, from 1895 March 3 to June 25, indicate a maximum of 8^m.0 on 1895 May 1. At the last observation, the star had dropped to 9^m.4.

6005. *S Draconis*.

Six observations of this star, from August 18 to October 10, indicate a well-defined maximum on 1895 September 24, the star's brightness at maximum having been 7^m.5, and at the first and last observations 8^m.7.

7085. *RT Cygni*.

From 1895 May 1 to September 24, I observed this star twenty-two times; at the first date it was just within the limit of visibility, and estimated to be about 12^m.0. A maximum of 7^m.3 is indicated on 1895 July 9, and at the last observation, it was estimated as 11^m.0.

7118. *X Aquilae*.

This star was first observed 1895 June 10, at 9^m.4; it rose rapidly to a maximum of 8^m.8, which was passed July 11. At the last observation, August 8, it had again fallen to 9^m.5. The observations number thirteen in all.

7450. *V Aquarii*.

Ten observations, from 1895 May 1 to October 10, indicate a maximum of 8^m.3 on August 20. The star was estimated on the first date to be 9^m.9, and in spite of the small number of the observations, the time of maximum is indicated quite definitely. The star's brightness when last observed was 8^m.9.

7560. *R Vulpeculae*.

I have twelve observations of this star, from 1895 August 18 to October 10.

These indicate with great definiteness that the maximum took place on September 17, the greatest observed light being 7^m.9. When first observed the star was 9^m.6, and at the last observation had fallen to 9^m.1.

OBSERVATIONS OF COMET *a* 1895 (*SWIFT*),

MADE AT THE U.S. NAVAL OBSERVATORY, WASHINGTON, D.C.,

By PROF. E. FRISBY AND ASSISTANT ASTRONOMER GEORGE A. HILL.

[Communicated by Prof. WM. HARKNESS, U.S.N., Astronomical Director.]

1895 Washington M.T.	*	No. Comp.	— *		's apparent		log $p\Delta$		Obs.
			$\Delta\alpha$	$\Delta\delta$	α	δ	for α	for δ	
Aug. 27 13 ^h 18 ^m 12 ^s	1	24, 6	—1 3.00	—7 28.9	0 43 45.91	+6 2 9.8	$n9.082$	0.681	H
Sept. 11 11 37 32	2	16, 4	+1 43.45	—3 16.8	1 8 58.66	+5 59 24.4	$n9.388$	0.689	H
14 12 7 46	3	16, 5	—1 30.84	+1 13.1	1 12 32.12	+5 50 41.7	$n9.243$	0.685	H
21 12 8 17	4	22, 5	—0 42.62	—1 45.2	1 18 48.76	+5 22 43.1	$n9.119$	0.688	H
23 11 49 39	5	20, 5	+0 32.08	+2 33.8	1 20 9.46	+5 13 34.3	$n9.195$	0.692	H
Sept. 27 12 34 10	6	20, 4	+0 11.82	—2 55.6	1 22 20.89	+4 53 48.9	$n8.629$	0.692	F

Mean Places for 1895.0 of Comparison-Stars.

*	α	Red. to app. place	δ	Red. to app. place	Authority
1	^h 0 ^m 44 ^s 45.59	+3.32	+6° 9' 15.8"	+22.9	DM. 5°111, 4 obs., transit circle
2	1 7 11.66	+3.55	+6 2 16.2	+25.1	DM. 5°156, 4 obs., " "
3	1 13 59.36	+3.60	+5 49 3.1	+25.6	DM. 5°167, 4 obs., " "
4	1 19 27.70	+3.68	+5 24 3.8	+26.2	Anonymous (9 ^m .2), 3 obs., transit circle
5	1 19 33.66	+3.72	+5 10 34.2	+26.3	DM. 4°247, 3 obs., transit circle
6	1 22 5.28	+3.79	+4 56 17.8	+26.7	Boss, <i>Astr. Gesells. Catal.</i> , Albany 402

The above observations have been made with the 26-inch refractor, using a power of 200 in the micrometer.

The comet appeared round, about 3' in diameter, and upon one or two nights I could see a faint stellar point in the center of the object, of about 13^m.

During the time in which I was observing the comet, I could not see that it had diminished in brightness; in fact, on the night of

1895 October 14.

September 14, it was very much brighter than when I first observed it. This may, however, have been due to the very clear sky upon that night.

All the stars, except the one used by Prof. FRISBY, have been observed by Messrs. LITTELL and KING with the transit circle, and each star-place depends upon three or four observations.

OBSERVATIONS OF MINOR PLANETS,

MADE AT THE CINCINNATI OBSERVATORY,

By PHILLIPS ISHAM.

1895 Cincinnati M.T.	*	No. Comp.	Planet—*		Planet's apparent		log pΔ		
			Δα	Δδ	α	δ	for α	for δ	
(372).									
Jan. 31	9 ^h 49 ^m 42 ^s	1	8	+0 ^m 31.54	+1 ^s 13.2	8 ^h 1 ^m 10.44	+39° 16' 48.7"	n9.342	9.414
Mar. 21	10 28 46	2	9	−0 34.01	+0 38.7	7 43 14.00	+29 0 29.9	9.534	0.368
22	7 51 56	3	8	+1 7.05	−0 32.8	7 43 37.99	+28 49 39.1	8.334	0.192
Nephthys (287).									
Mar. 2	10 38 25	4	8	−0 50.56	−5 28.0	10 25 47.09	+14 34 57.7	n9.119	0.570
Unitas (306).									
Apr. 19	11 19 37	5	9	+0 23.43	+1 12.6	13 27 46.95	+ 2 37 17.6	n8.506	0.719
20	10 42 29	6	8	−0 33.56	+5 35.9	13 26 54.01	+ 2 43 29.5	n8.984	0.719
22	8 41 43	7	9	−0 47.39	−2 38.0	13 25 11.85	+ 2 55 25.0	n9.470	0.723
23	11 14 13	7	9	−1 46.37	+3 57.0	13 24 12.86	+ 3 2 0.0	n7.627	0.715
24	9 13 18	8	10	−0 1.02	−2 59.7	13 23 25.14	+ 3 7 13.3	n9.356	0.718
Dembowska (349).									
May 17	12 16 58	9	8	+0 28.09	−1 52.9	15 28 34.88	−23 54 59.1	8.831	0.894
18	11 22 43	9	11	−0 25.02	−0 50.1	15 27 41.77	−23 53 56.4	n8.607	0.895
21	11 5 17	10	11	−0 25.24	+1 29.0	15 24 57.19	−23 50 20.1	n8.670	0.895
22	10 51 46	11	11	−0 4.22	+3 50.5	15 24 3.20	−23 49 2.3	n8.817	0.894
Henrietta (225).									
May 22	11 21 56	12	9	+0 1.17	+3 23.6	15 33 16.23	− 0 12 11.4	n8.260	0.747
June 13	9 47 10	13	10	+0 22.78	−1 30.8	15 20 7.38	+ 1 51 7.8	n7.930	0.727
17	9 24 20	14	7	−1 21.67	−5 2.6	15 18 30.26	+ 2 2 15.3	n8.290	0.725
18	11 24 31	14	8	−1 44.81	−2 36.3	15 18 7.12	+ 2 4 41.7	9.344	0.727
(354).									
Aug. 13	10 35 32	15	8	−1 21.84	+1 12.3	21 46 21.60	−14 39 33.9	n9.308	0.842
14	10 34 22	15	8	−2 7.29	−7 45.0	21 45 36.15	−14 48 31.2	n9.293	0.843
20	11 26 9	16	8	+0 47.19	−5 19.6	21 40 54.89	−15 41 58.9	n8.564	0.857
22	12 7 17	17	8	−0 1.81	+4 57.1	21 39 21.38	−15 59 41.9	8.836	0.858
23	11 17 41	17	8	−0 45.82	−3 22.1	21 38 37.37	−16 8 1.1	n8.924	0.859
Alkmene (82).									
Aug. 22	11 43 46	18	8	+2 27.73	−0 51.6	21 58 21.29	−16 7 36.0	n8.299	0.860
23	10 56 45	18	9	+1 39.10	−4 42.4	21 57 32.66	−16 11 26.6	n9.030	0.858