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OBSERVATIONS OF HYGEA,

MADE WITH THE FILAR-MICROMETER OF THE WASHINGTON EQUATORIAL.

By MR. JAMES FERGUSON.

[Communicated by Lieutenant MAURY.]

[Corrected for refraction.]

Date.	M. T. Washington.	No. of Comp.	Comparison-Star.	⑩ — *		⑩'s apparent		A.
				$\Delta \alpha$	$\Delta \delta$	α	δ	
1851.	h. m. s.			m. s.	' "	h. m. s.	° ' "	
Aug. 29	10 41 26.5	3	B. A. C. 177	-3 54.10	+ 0 32.03	0 29 38.66	+8 33 13.52	9
Sept. 19	9 15 46.0	3	" 66	+3 27.36	+ 5 36.79	16 25.82	7 27 35.72	8
21	10 21 42.6	9	" 66	+1 58.38	- 2 58.64	14 56.85	7 19 0.45	10
Oct. 1	11 15 12.1	2	Weisse O. 192	-3 53.59	+ 5 58.84	7 36.85	6 33 30.21	9
	11 40 24.5	3	" "	-3 55.31	+ 5 54.44	7 35.13	6 33 25.83	9
6	10 19 2.9	6	Weisse O. 89	-1 19.65	+ 5 46.23	4 5.82	6 10 3.64	8
		6	" 104	-2 23.41	+ 6 46.91	4 6.04	6 10 4.22	8
7	10 27 39.0	2	" 89	-2 1.40	+ 0 57.85	3 24.07	6 5 13.31	10
		2	" 104	-3 4.96	+ 1 58.59	3 24.49	6 5 15.95	10
8	10 38 46.5	4	Rümker 11970	+3 14.20	- 2 36.70	2 43.14	6 0 29.21	9
9	9 43 55.3	6	" "	+2 35.29	- 7 8.96	2 4.24	5 55 57.00	10
10	9 55 44.1	5	" "	+1 55.26	-11 53.51	1 24.21	5 51 12.47	9
		5	Weisse XXIII. 1251	+0 35.04	+ 3 41.85	0 1 24.13	5 51 12.29	9
14	9 28 42.7	10	Rümker 11941	+1 46.08	- 9 11.63	23 58 52.78	5 32 49.63	9
		10	Weisse XXIII. 1180	+1 37.26	- 2 43.32	58 52.48	5 32 50.35	9
		6	Rümker 11913	+0 48.25	- 2 4.33	55 58.31	5 10 34.19	10
		6	" "	+0 15.21	- 6 30.01	55 25.26	5 6 8.52	10
20	10 20 9.1	6	" "	+1 53.48	+ 3 26.91	52 6.55	4 38 17.29	8
27	10 8 5.3	5	Weisse XXIII. 1032	+0 2.74	-13 54.30	50 15.76	4 20 56.04	8
Nov. 1	10 3 37.9	10	" "	+0 32.01	+ 9 35.62	48 39.65	4 3 37.43	10
	7 9 26 23.7	6	Rümker 11777	-0 13.01	+ 0 4.44	47 58.62	3 54 6.10	8
	11 9 47 39.9	3	" "	-0 50.06	-18 47.02	48 21.33	3 35 13.87	10
28	8 21 55.8	5	" "	+0 28.15	-12 36.27	49 10.18	3 35 31.90	8
Dec. 1	7 22 30.3	6	Rümker 11766	+1 48.95	-16 51.03	55 49.16	3 56 53.33	8
18	8 11 55.6	4	Weisse XXIII. 1110	+2 19.36	-14 42.33	55 19.56	3 59 1.58	8
19	7 18 18.7	4	" "	-2 36.01	- 7 32.60	23 58 36.12	4 8 44.63	7
23	7 25 27.8	3	Weisse XXIII. 1258	-0 45.76	+ 1 11.38	0 0 26.42	4 17 28.40	7
26	7 5 33.4	3	" "	-0 46.18	- 1 26.34	0 26.60	4 17 25.50	7
		3	Weisse XXIII. 1260					
1852.								
Jan. 7	7 39 0.5	5	Santini 10	+0 55.78	- 1 21.72	8 57.06	4 58 45.87	7
	8 47 12.9	3	" "	+0 57.96	- 1 4.74	0 8 59.14	+4 59 2.85	7

Adopted Mean Places, 1850.0, of Comparison-Stars.

*	Mag.	α	δ	Authority.
(1) B. A. C. 177; Weisse O. 579; } Santini 37 }	7	^{h. m. s.} 0 33 27.42	+8° 32' 9".23	Mean of Weisse and B. A. Catalogue.
B. A. C. 66; Weisse O. 223; } Santini 17; Gr. 12 Y. C. 16 }	6.7	0 12 52.86	7 21 23.32	Mean of Weisse, Santini, and Gr. 12 Y. C.
Weisse O. 192	9	0 11 24.79	6 26 54.84	Weisse's Catalogue.
" 89	9	0 5 19.82	6 3 40.49	" "
" 104	9	0 6 23.80	6 2 40.39	" "
Weisse XXIII. 1222; Rümker 11970; } Santini 1676 }	8	23 59 23.31	6 2 28.78	Mean of Weisse, Rümker, and Santini.
Weisse XXIII. 1251	8	0 0 43.46	5 46 53.30	Weisse's Catalogue.
Weisse XXIII. 1178; Rümker 11941	8	23 57 1.09	5 41 23.91	Mean of Weisse and Rümker.
Weisse XXIII. 1180	9	23 57 9.61	5 34 56.33	Weisse's Catalogue.
(2) Weisse XXIII. 1142; Rümker 11913	8.3	23 55 4.46	5 12 1.16	Mean of Weisse and Rümker.
Weisse XXIII. 1032	9	23 50 7.53	4 34 13.03	Weisse's Catalogue.
Weisse XXIII. 1006; Rümker 11777	7.8	23 49 6.21	3 53 24.83	Rümker's Catalogue.
Weisse XXIII. 994; Rümker 11766	9	23 48 36.83	3 47 32.35	" "
Weisse XXIII. 1110	9	23 53 55.13	4 13 12.18	Weisse's Catalogue.
" 1258	8.9	0 1 7.09	4 15 42.89	" "
" 1260	8.9	0 1 7.69	4 18 17.69	" "
Santini 10	7.8	0 7 56.24	+4 59 34.24	Santini's Catalogue.

(1) The α of WEISSE O. 579 is five seconds too small. The error is in the reduction to 1825. *Vide* BESSEL's Zone 111.

(2) BESSEL estimates this star at 9. RÜMKER at 7. At the time of observation it was estimated at (8.3).

FROM LETTERS OF PROFESSOR D'ARREST TO THE EDITOR.

Leipsic, 1852, May 1.

Observations of DE GASPARIS's new Planet, made at the Leipsic Observatory.

1852.	M. T. Leipsic. ^{h. m. s.}	(16) α	(16) δ
April 19	9 22 54.6	147° 36' 49".1	+13° 48' 44".5
20	11 22 22.8	147 38 52.6	13 48 36.1
21	9 27 44.9	147 40 48.1	+13 48 16.6

1852.	M. T. Leipsic. ^{h. m. s.}	(16) α	(16) δ
April 22	10 30 38.1	147° 43' 27".6	+13° 47' 44".3
23	10 8 45.2	147 46 11.9	+13 47 9.4

The planet resembles a star of the 12 magnitude. An observation of April 25, and the places of LUTHER's (seventeenth) asteroid, are not yet reduced. The latter is equal in brightness to a star of the 11 magnitude.

Collected Observations of *Thetis*.*

1852.	M. T. ^{h. m. s.}	Place.	(17) α	(17) δ
April 22	10 5 43.0	Bonn	179° 57' 24".2	+9° 1' 30".6
22	12 54 46.0	Bonn	179 56 35.3	9 1 44.5
22	12 11 58.7	Berlin	179 56 45.5	9 1 22.1
23	9 37 26.0	Bonn	179 50 50.0	9 3 31.0
23	10 35 13.2	Hamburg	179 50 10.7	+9 3 18.0

I have found, while searching for comets, a new nebula in *Antinous*, not given in the published catalogues. The object is equal in brightness to a first-class nebula, about three minutes in diameter. Its approximate position is for 1852,

$$\text{R.A.} = 285^{\circ} 55' 8''.2$$

$$\text{Dec.} = +0^{\circ} 46' 7''.7$$

* This name has been given to the seventeenth asteroid by Professor ARGELANDER, to whom Mr. LUTHER had delegated his rights as discoverer. The sixteenth asteroid has received the name of *Psyche*. — G.