
SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS,

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1870.

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
1 21 <i>Andromedae</i> α , <i>Alpherat</i> .									Oct. 18	...	0	23	24.07	...	94	40	34.8	M	
Oct. 5	...	0	1	40.24	...	61	37	40.6	R	21	...	23	24.15	...	40	35.0	M		
7	...	1	40.21	...		87	39.6	R	22	...	23	24.18	...	40	34.5	M			
Nov. 12	...	1	40.24	...		87	38.9	M	23	...	23	24.33	...	40	34.8	M			
14	...	1	40.14	8		87	39.2	R											
17	...	1	40.25	...		87	39.2	M											
18	...	1	40.25	...		87	40.0	M											
2 <i>Lacaille</i> 9746.																			
Oct. 29	8.0	0	3	6.54	...	146	54	55.2	M										
3 <i>Anon.</i>																			
Nov. 2	9.9	0	5	16.62	...	126	16	3.0	R										
5	9.0	5	16.86	...		16	7.6	R											
4 88 <i>Pegasi</i> γ , <i>Algenib</i>																			
Nov. 3	...	0	6	32.57	...	75	32	22.7	R										
12	...	6	32.61	...		32	21.9	M											
18	...	6	32.53	...		32	22.7	M											
19	...	6	32.53	...		32	22.6	M											
5 <i>Lalande</i> 421.																			
Oct. 28	7.2	0	16	5.91	...	51	58	2.4	M										
6 <i>Anon.</i>																			
Oct. 12	9.7	0	19	18.19	5	26	84	37.7	R										
7 <i>Lacaille</i> 88.																			
Oct. 31	7.4	0	19	43.32	...	130	22	3.0	M										
Nov. 19	7.9	19	49.04	...		22	4.2	M											
8 12 <i>Ceti</i> .																			
Sep. 10	...	0	23	24.24	...	94	40	35.4	R										
Oct. 8	...	23	24.29	...		40	35.1	R											
Nov. 1	...	23	24.27	...		40	34.5	R											
3	...	23	24.20	...		40	35.5	R											
7	...	23	24.27	...		40	34.6	R											
14	...	23	24.30	...		40	34.5	R											
17	...	23	24.35	...		40	34.8	M											
									Oct. 18	...	0	23	24.07	...	94	40	34.8	M	
									21	...	23	24.15	...	40	35.0	M			
									22	...	23	24.18	...	40	34.5	M			
									23	...	23	24.33	...	40	34.8	M			
9 <i>Taylor</i> 143.																			
Oct. 6	5.0	0	23	16.25	5	143	5	31.8	R										
Nov. 19	6.8	23	16.21	...		5	31.5	M											
10 13 <i>Ceti</i> .																			
Sep. 10	...	0	23	33.40	...	94	18	32.6	R										
Oct. 7	...	23	33.41	...		18	32.7	R											
11 <i>Taylor</i> 184.																			
Nov. 5	...	0	34	5.37	...	95	3	50.5	R										
24	6.0	34	5.30	...		3	57.2	M											
12 16 <i>Ceti</i> β .																			
Oct. 12	...	0	37	3.77	...	108	42	2.8	R										
31	...	37	3.55	...		42	2.6	M											
Nov. 1	...	37	3.62	...		42	3.6	R											
14	...	37	3.83	...		42	6.3	R											
18	...	37	3.76	...		42	3.0	M											
23	...	37	3.74	...		42	8.5	M											
13 <i>Anon.</i>																			
Nov. 26	9.1	0	40	10.03	...	150	43	57.7	M										
14 58 <i>Piscium</i> .																			
Oct. 14	...	0	40	14.32	...	78	44	8.9	R										
15 <i>Lacaille</i> 234.																			
Nov. 19	7.0	0	45	11.30	5	129	14	10.0	M										
16 <i>Anon.</i>																			
Nov. 25	9.0	0	45	26.64	...	129	11	50.8	M										

634

14.46

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
34 Taylor 539.										40 Anon.									
Dec. 16	5.6	1	31	59.25	...	148	56	5.7	M	Jan. 6	9.9	1	49	43.22	5	86	44	33.0	R
										Nov. 26	9.9		49	42.91	5		44	34.6	M
35 α Eridani, Achernar.										41 W. B. E. I. 892.									
Oct. 11	...	1	32	52.41	5	147	53	54.8	R	Nov. 3	...	1	51	15.37	...	86	57	54.8	R
Nov. 1	...		32	52.10	...		58	54.5	R	Dec. 14	9.3		51	15.11	5		57	54.3	R
Dec. 6	...		32	52.23	...		53	55.5	R										
36 106 Piscium ν										42 Anon.									
Nov. 5	...	1	34	40.13	...	85	10	18.2	R	Nov. 8	...	1	52	30.50	3	145	46	37.2	R
19	...		34	40.04	...		10	17.1	M										
21	...		34	39.89	...		10	16.9	M										
22	...		34	40.06	...		10	16.7	M										
23	...		34	39.88	...		10	17.2	M										
24	...		34	40.17	...		10	17.3	M										
25	...		34	40.07	...		10	16.7	M										
26	...		34	39.94	...		10	17.8	M										
Dec. 2	...		34	39.95	...		10	16.8	R										
37 110 Piscium ο										43 Anon.									
Oct. 10	...	1	33	^{31.88} 32.15	6	81	29	53.6	R	Nov. 11	9.0	1	53	9.39	5	151	21	9.6	R
38 Anon.										44 W. B. E. I. 940.									
Nov. 11	8.9	1	33	45.70	5	152	1	5.2	R	Jan. 6	7.6	1	53	36.29	6	86	14	34.5	R
39 6 Arietis β										45 Anon.									
Oct. 11	...	1	47	27.69	...	69	49	45.7	R	Nov. 25	9.1	1	56	23.85	...	87	27	48.1	M
Nov. 8	...		47	27.69	...		49	44.7	R										
9	...		47	27.66	...		49	44.6	R										
11	...		47	27.65	...		49	44.2	R										
21	...		47	27.76	...		49	44.7	M										
23	...		47	27.82	...		49	45.1	M										
24	...		47	27.53	...		49	44.7	M										
25	...		47	27.69	...		49	42.7	M										
28	...		47	27.53	...		49	45.3	M										
29	...		47	27.68	...		49	45.1	M										
Dec. 2	...		47	27.70	...		49	44.2	R										
6	...		47	27.68	...		49	43.8	R										
46 Anon.										47 13 Arietis α									
										Dec. 5	...		59	50.86	...		9	14.0	R
										13	...		59	50.86	...		9	14.0	R
										14	...		59	50.97	5		9	15.1	R
48 Anon.										48 Anon.									
										Nov. 24	9.6	2	1	10.03	...	87	16	50.1	M

31-88

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
49 <i>Anon.</i>									55 <i>Anon.</i>										
Jan. 6	9.3	2	1	14.61	...	148	45	56.4	R	Jan. 8	9.5	2	29	22.15	5	147	35	56.3	R
50 <i>Anon.</i>									56 <i>Anon.</i>										
Dec. 17	9.5	2	7	9.03	...	87	5	11.4	M	Jan. 6	10.2	2	29	30.97	4	84	58	59.1	R
51 <i>67 Ceti.</i>									57 <i>31 Arietis.</i>										
Nov. 8	...	2	10	29.94	...	97	1	22.1	R	Oct. 10	...	2	29	32.68	...	78	7	4.5	R
9	...		10	29.01	...		1	22.0	R	58 <i>Anon.</i>									
20	...		10	29.83	...		1	22.7	M	Dec. 17	9.3	2	31	22.62	...	148	29	45.0	M
28	...		10	29.09	...		1	23.3	M	59 <i>Anon.</i>									
Dec. 3	...		10	29.98	...		1	22.0	R	Dec. 20	8.5	2	34	18.80	...	74	55	1.5	M
5	...		10	20.99	...		1	25.1	R	60 <i>86 Ceti γ</i>									
15	...		10	29.93	5		1	23.4	R	Jan. 5	...	2	36	33.89	...	87	18	49.0	R
16	...		10	29.99	...		1	23.3	M	Nov. 24	...		36	34.00	...		18	49.3	M
20	...		10	29.90	...		1	21.6	M	25	...		36	33.81	...		18	48.3	M
30	...		10	20.85	...		1	22.8	M	Dec. 3	...		36	33.99	...		18	48.4	R
52 <i>22 Arietis θ</i>									61 <i>87 Ceti μ</i>										
Jan. 5	...	2	10	53.86	...	70	42	7.0	R	Oct. 10	...	2	37	54.96	...	80	26	11.1	R
6	...		10	53.83	6		42	8.4	R	Dec. 5	...		37	55.06	...		26	12.4	R
53 <i>24 Arietis ξ</i>									62 <i>Taylor 940.</i>										
Dec. 3	...	2	17	51.05	...	79	53	45.9	R	Jan. 4	7.0	2	40	29.57	4	128	43	0.0	R
54 <i>73 Ceti ξ²</i>									63 <i>Anon.</i>										
Jan. 1	...	2	21	14.98	...	82	7	24.5	M	Jan. 5	...	2	45	35.47	4	76	26	21.3	R
4	...		21	14.06	6		7	26.9	R										
5	...		21	14.93	...		7	26.4	R										
Oct. 11	...		21	14.98	...		7	28.4	R										
Nov. 7	...		21	14.95	...		7	27.8	R										
11	...		21	15.02	4		7	26.9	R										
Dec. 5	...		21	14.92	...		7	27.4	R										
13	...		21	14.94	...		7	25.5	R										
14	...		21	14.82	4		7	27.8	R										
15	...		21	14.92	...		7	27.9	R										
16	...		21	14.83	...		7	27.7	M										
17	...		21	14.92	...		7	26.6	M										
19	...		21	15.00	...		7	27.3	M										
20	...		21	14.86	...		7	26.6	M										
30	...		21	14.98	...		7	27.1	M										

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
64		48 <i>Arietis</i> ϵ								74		Anon.							
Jan. 7	...	2	51	46.91	...	69	10	53.9	R	Dec. 13	...	3	12	47.42	4	129	26	22.3	R
65		91 <i>Ceti</i> λ								75		Anon.							
Dec. 5	...	2	52	44.98	...	81	36	46.2	R	Dec. 20	8.0	3	13	34.28	...	125	38	32.3	M
66		Anon.								76		33 <i>Persei</i> a .							
Dec. 17	8.6	2	53	25.57	6	146	43	1.4	M	Dec. 3	...	3	15	3.04	...	40	86	14.6	R
67		<i>Lacaille</i> 969.								16	...	15	3.15	...		86	16.6	M	
Dec. 20	7.8	2	55	4.15	...	144	12	31.2	M	17	...	15	3.18	...		36	16.2	M	
68		92 <i>Ceti</i> a								19	...	15	3.18	...		36	15.8	M	
Jan. 11	...	2	55	29.21	...	86	25	20.1	R	21	...	15	3.09	...		36	15.8	M	
Oct. 13	...		55	29.15	...		25	19.8	R	30	...	15	3.24	...		36	15.9	M	
Dec. 12	...		55	29.02	...		25	20.2	R	77		Anon.							
14	...		55	29.09	...		25	20.7	R	Oct. 13	9.7	3	15	37.01	...	125	40	5.9	R
21	...		55	29.09	...		25	20.3	M	78		Anon.							
69		<i>Taylor</i> 1047.								Nov. 9	8.5	3	17	4.56	...	127	5	45.5	R
Jan. 8	7.0	2	59	59.73	5	151	18	27.3	R	79		Anon.							
70		<i>R. P. L.</i> 33.								Nov. 12	8.0	3	17	33.18	4	130	44	21.0	M
Dec. 16	...	3	1	59.40	2	5	33	26.1	M	80		1 <i>Tauri</i> \circ <i>Var.</i> 5							
71		Anon.								Nov. 7	...	3	17	49.13	...	81	25	51.0	R
Nov. 9	8.5	3	2	23.23	...	130	37	33.8	R	81		2 <i>Tauri</i> ξ							
72		57 <i>Arietis</i> δ .								Jan. 7	...	3	20	7.51	...	80	43	20.1	R
Jan. 12	...	3	4	11.89	...	70	46	0.1	R	82		5 <i>Tauri</i> f							
Oct. 13	...		4	11.81	...		46	2.0	R	Oct. 12	...	3	23	41.83	...	77	30	40.4	R
Dec. 12	...		4	11.87	...		46	2.4	R	Dec. 5	...		23	41.86	...		30	41.2	R
17	...		4	11.88	...		46	2.6	M	83		Anon.							
21	...		4	11.97	...		46	2.3	M	Jan. 4	9.0	3	23	52.93	...	126	21	22.9	R
73		<i>Lacaille</i> 1007.								84		<i>R. P. L.</i> 34.— <i>s.p.</i>							
Nov. 18	7.0	3	4	55.55	5	152	13	6.2	M	July 7	...	3	24	9.17	3	3	46	13.2	M

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
85 <i>Anon.</i>										94 <i>35 Tauri λ Var. 1.</i>									
Oct. 13	9.0	3	25	3.30	5	129	0	27.8	R	Jan. 12	...	3	53	28.77	...	77	52	45.3	R
86 <i>Anon.</i>										13	...	53	28.97	...	52	46.2	R		
Jan. 5	8.0	3	32	26.53	...	131	19	33.8	R	Nov. 9	...	53	28.71	...	52	46.3	R		
87 <i>Lacaille 1166.</i>										Dec. 5	...	53	28.73	...	52	47.7	R		
Jan. 7	...	3	33	15.12	5	129	11	59.8	R	95 <i>Anon.</i>									
88 <i>Anon.</i>										Jan. 8	7.5	3	55	46.71	...	129	18	35.9	R
Jan. 8	10.2	3	33	50.79	5	128	28	57.7	R	96 <i>R. P. L. 35.</i>									
89 <i>Anon.</i>										Jan. 6	...	3	56	34.45	5	4	47	33.1	R
Dec. 5	10.0	3	36	0.04	5	129	9	25.1	R	Dec. 21	...	56	34.86	3	47	32.2	M		
90 <i>25 Tauri η, Aleyone.</i>										97 <i>38 Eridani ο¹</i>									
Jan. 1	...	3	39	45.58	...	06	17	55.8	M	Jan. 1	...	4	5	31.11	6	97	10	44.0	M
4	...	39	45.58	4	17	57.8	R	4	...	5	31.19	...	10	44.7	R				
10	...	39	45.54	...	17	58.0	R	5	...	5	31.22	...	10	44.6	R				
11	...	39	45.48	...	17	56.8	R	7	...	5	31.15	...	10	43.0	R				
12	...	39	45.60	...	17	57.7	R	11	...	5	31.25	...	10	42.1	R				
17	...	39	45.51	...	17	56.6	M	12	...	5	31.23	...	10	43.8	R				
Nov. 30	...	39	45.58	...	17	55.9	M	17	...	5	31.16	...	10	44.2	M				
Dec. 17	...	39	45.55	5	17	50.7	M	Dec. 15	...	5	31.20	...	10	44.8	R				
19	...	39	45.39	...	17	58.8	M	16	...	5	31.25	...	10	45.3	M				
20	...	39	45.57	...	17	58.2	M	30	...	5	31.17	...	10	44.4	M				
91 <i>Anon.</i>										98 <i>54 Tauri γ</i>									
Jan. 6	8.2	3	41	3.55	4	147	2	0.8	R	Jan. 8	...	4	12	23.84	...	74	41	20.8	R
92 <i>30 Tauri ε</i>										12	...	12	23.92	...	41	20.3	R		
Oct. 19	...	3	41	8.65	4	79	15	32.1	R	13	...	12	23.94	5	41	20.5	R		
93 <i>34 Eridani γ¹</i>										Nov. 8	...	12	23.70	...	41	20.3	R		
Jan. 7	...	3	51	57.88	...	103	52	48.7	R	9	...	12	23.65	6	41	20.9	R		
10	...	51	57.88	6	52	49.1	R	99 <i>61 Tauri δ¹</i>											
11	...	51	57.86	...	52	48.7	R	Dec. 6	...	4	15	26.22	...	72	45	54.9	R		
21	...	51	57.83	...	52	49.1	M	7	...	15	26.27	...	45	54.4	R				
100 <i>Anon.</i>										100 <i>Anon.</i>									
Jan. 6	10.0	4	15	27.46	...	129	6	58.4	R	Jan. 6	10.0	4	15	27.46	...	129	6	58.4	R

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
101 <i>62 Tauri.</i>										107 <i>Lacaille 1551.</i>									
Jan. 4	...	4	16	9.59	...	66	0	19.0	R	Jan. 24	6.0	4	32	19.01	...	153	5	31.7	M
5	...	16	9.64	5	...	0	17.4	R	Dec. 18	5.7	32	13.17	4	...	5	31.3	R		
102 <i>74 Tauri ε</i>										108 <i>Lacaille 1551—2nd.</i>									
Jan. 4	...	4	21	1.65	...	71	6	39.5	R	Dec. 13	...	4	32	17.80	4	153	5	39.1	R
6	...	21	1.64	...	...	6	39.5	R	15	9.8	32	17.62	...	...	5	34.9	R		
7	...	21	1.60	...	...	6	38.2	R											
11	...	21	1.64	...	...	6	38.0	R											
12	...	21	1.66	...	...	6	39.0	R											
Oct. 12	...	21	1.54	...	...	6	38.2	R											
13	...	21	1.75	2	...	6	39.5	R											
Dec. 6	...	21	1.69	...	...	6	39.2	R											
7	...	21	1.58	...	...	6	38.8	R											
20	...	21	1.66	...	...	6	39.8	M											
103 <i>Anon.</i>										109 <i>Anon.</i>									
Jan. 8	10.2	4	22	22.19	5	80	27	12.8	R	Jan. 4	8.3	4	33	56.19	4	67	31	19.7	R
Dec. 15	10.2	22	21.86	3	...	27	15.9	R											
104 <i>Taylor 1582.</i>										110 <i>94 Tauri τ</i>									
Jan. 22	6.2	4	23	17.48	5	151	32	0.6	M	Nov. 9	...	4	34	26.66	...	67	17	43.6	R
105 <i>87 Tauri α, Aldebaran.</i>										111 <i>Anon.</i>									
Jan. 1	...	4	28	27.81	...	73	45	16.5	M	Jan. 25	8.9	4	34	38.90	...	144	55	6.0	M
6	...	28	27.78	...	...	45	20.2	R											
8	...	28	27.77	...	...	45	17.7	R											
10	...	28	27.68	...	...	45	17.4	R											
12	...	28	27.77	...	...	45	17.2	R											
17	...	28	27.85	...	...	45	17.0	M											
21	...	28	27.90	...	...	45	16.9	M											
Oct. 12	...	28	27.72	...	...	45	17.5	R											
13	...	28	27.61	4	...	45	17.1	R											
Nov. 29	...	28	27.78	...	...	45	18.3	R											
106 <i>R Reticuli Var. 1.</i>										112 <i>Anon.</i>									
Dec. 12	8.0	4	32	12.30	5	153	17	59.5	R	Jan. 22	9.6	4	34	41.53	...	153	26	10.0	M
107 <i>Lacaille 1551—2nd.</i>										113 <i>Anon.</i>									
Dec. 13	...	4	32	17.80	4	153	5	39.1	R	Jan. 26	9.0	4	39	28.89	...	153	2	59.1	M
15	9.8	32	17.62	...	...	5	34.9	R											
108 <i>Lacaille 1551—2nd.</i>										114 <i>.97 Tauri ι</i>									
Dec. 13	...	4	32	17.80	4	153	5	39.1	R	Jan. 4	...	4	43	46.25	...	71	23	2.6	R
15	9.8	32	17.62	...	...	5	34.9	R	24	5.6	43	46.54	...	...	23	4.8	M		
									27	5.6	43	46.32	...	...	23	1.8	M		
109 <i>Anon.</i>										115 <i>Anon.</i>									
Jan. 4	8.3	4	33	56.19	4	67	31	19.7	R	Jan. 21	8.1	4	44	3.93	6	127	39	45.7	M
110 <i>94 Tauri τ</i>										116 <i>3 Aurigae ι</i>									
Nov. 9	...	4	34	26.66	...	67	17	43.6	R	Jan. 8	...	4	48	31.79	...	52	2	33.8	R
111 <i>Anon.</i>										116 <i>3 Aurigae ι</i>									
Jan. 25	8.9	4	34	38.90	...	144	55	6.0	M	29	...	48	31.88	2	33.4	M	

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31.90

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
117 <i>R Orionis</i> Var. 3.									126 <i>Anon.</i>										
Jan. 17	9.4	4	51	57.40	...	82	4	14.3	M	Feb. 1	9.3	5	13	10.60	6	75	4	84.9	R
22	9.3		51	57.51	6		4	14.5	M	127 <i>Anon.</i>									
25	8.9		51	57.50	...		4	14.0	M	Feb. 3	...	5	13	56.69	...	75	11	21.8	R
28	9.5		51	57.48	6		4	14.6	M	128 <i>Anon.</i>									
118 <i>Taylor</i> 1780									129 <i>112 Tauri</i> β										
Dec. 19	7.0	4	52	23.08	...	144	38	15.7	M	Jan. 6	...	5	18	4.46	...	61	30	21.8	R
119 <i>11 Orionis.</i>									Jan. 21	...		18	4.46	6		30	19.2	M	
Jan. 27	...	4	57	8.62	...	74	46	47.1	M	22	...	18	4.55	...	80	20.8	M		
120 <i>104 Tauri</i> m									25	...	18	4.63	...	80	21.0	M			
Jan. 26	...	4	59	46.30	...	71	31	55.9	M	31	...	18	4.52	...	80	19.0	M		
Dec. 17	...		59	46.16	...		81	56.1	M	Dec. 10	...	18	4.48	...	80	19.6	R		
121 <i>2 Leporis</i> ε									24	...	18	4.44	...	80	20.4	R			
Dec. 7	...	4	59	57.47	...	112	32	52.4	R	130 <i>Anon.</i>									
10	...		59	57.54	..		32	52.0	R	Jan. 29	8.7	5	18	31.60	6	121	28	36.2	M
24	...		59	57.38	5		32	54.3	R	131 <i>Anon.</i>									
122 <i>Lacaille</i> 1757.									132 <i>Taylor</i> 1973.										
Jan. 21	7.9	5	4	57.66	5	150	2	55.2	M	Dec. 21	6.8	5	19	6.58	...	129	48	1.6	M
22	7.3		4	57.32	...		2	55.4	M	133 <i>R. P. L.</i> 40.									
123 <i>Anon.</i>									Jan. 8	...	5	20	36.27	4	4	52	42.4	R	
Jan. 17	8.3	5	6	13.77	5	131	45	15.8	M	134 <i>Lacaille</i> 1854.									
27	8.7		6	13.74	5		45	16.5	M	Jan. 26	7.9	5	21	48.68	...	137	12	34.5	M
28	8.9		6	13.68	...		45	16.4	M	135 <i>119 Tauri.</i>									
124 <i>19 Orionis</i> β, <i>Rigel.</i>									Feb. 11	...	5	24	35.61	...	71	30	19.8	R	
Jan. 29	...	5	8	17.42	...	98	21	14.6	M										
31	...		8	17.59	...		21	15.2	M										
Dec. 7	...		8	17.39	...		21	15.5	R										
125 <i>109 Tauri</i> η																			
Jan. 26	...	5	11	28.08	5	68	2	27.4	M										

17-49

4.53

31.87

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
136 34 Orionis δ Var. 1.										145 Lacaille 1971.									
Jan. 18	...	5	25	22.06	5	90	23	54.1	R	Feb. 4	7.5	5	36	26.40	...	149	11	18.2	R
Feb. 1	...		25	22.04	...		23	51.8	R	146 Anon.									
3	...		25	21.90	...		23	52.1	R	Feb. 1	8.9	5	36	48.91	...	185	48	28.0	R
4	...		25	21.99	...		23	53.4	R	147 Taylor 2145.									
137 46 Orionis ϵ										Jan. 24	6.7	5	39	59.99	6	135	53	38.3	M
Jan. 21	...	5	29	36.92	...	91	17	13.8	M	148 Anon.									
22	...		29	37.09	...		17	14.4	M	Feb. 5	9.3	5	40	43.96	...	120	57	48.0	R
24	...		29	37.10	...		17	14.4	M	149 Lacaille 1984.									
25	...		29	36.95	5		17	14.1	M	Jan. 28	7.0	5	40	53.54	...	130	15	11.6	M
28	...		29	37.08	...		17	14.2	M	150 Anon.									
31	...		29	37.04	...		17	14.6	M	Feb. 2	10.0	5	42	11.06	5	136	4	6.7	R
138 123 Tauri 3										8	10.0		42	11.80	5		4	3.9	R
Feb. 11	...	5	29	52.59	...	68	56	23.1	R	9	10.0		42	12.08	5		4	5.9	R
Nov. 11	...		29	52.53	4		56	22.6	R	151 Anon.									
Dec. 7	...		29	52.52	...		56	23.6	R	Feb. 12	7.8	5	42	16.52	...	137	3	24.2	R
139 Lalande 10607.										152 Anon.									
Jan. 29	7.5	5	31	38.64	...	63	18	48.8	M	Jan. 29	8.9	5	43	36.43	...	130	6	48.9	M
140 Anon.										153 Anon.									
Feb. 2	9.0	5	32	11.07	...	123	55	12.0	R	Feb. 4	9.0	5	44	53.84	...	137	10	10.1	R
141 Lacaille 1949.										154 54 Orionis χ^1									
Feb. 9	5.0	5	32	17.55	5	154	18	50.1	R	Nov. 11	...	5	46	40.93	...	69	45	5.2	R
142 Anon.										155 58 Orionis α Var. 1, Betelgeux.									
Feb. 3	...	5	32	53.97	...	128	41	0.6	R	Jan. 8	...	5	48	8.06	...	82	37	11.8	R
143 Taylor 2107.										22	...		48	7.91	6		37	12.1	M
Jan. 17	6.9	5	34	33.20	...	130.	46	51.7	M	25	...		48	8.02	5		37	10.9	M
28	7.0		34	33.26	...		46	55.6	M	26	...		48	8.19	...		37	10.1	M
144 α Columbae.										27	...		48	8.05	...		37	11.1	M
Jan. 25	...	5	34	56.65	...	124	8	41.3	M	31	...		48	7.88	...		37	9.5	M

37.43

38.65

17.45

47.90

11.47

16.53

36.42

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
156 <i>Anon.</i>										165 <i>Anon.</i>									
Feb. 1	9°0	5	50	3.94	4	135	43	3.3	R	Feb. 1	7.5	6	4	34.41	...	123	2	33.0	R
157 <i>Anon.</i>										166 <i>Anon.</i>									
Feb. 3	...	5	51	58.92	...	140	36	34.3	R	Jan. 25	9.4	6	7	31.49	6	151	18	30.9	M
158 <i>Anon.</i>										167 <i>Anon.</i>									
Feb. 12	8°0	5	53	35.44	5	141	40	6.3	R	Feb. 15	8°0	6	11	56.96	...	121	31	34.5	R
22	8°0		53	35.13	...		40	6.2	M	168. 13 Geminorum μ									
159 <i>Anon.</i>										Jan. 27	...	6	15	5.61	5	67	25	22.1	M
Feb. 9	9°7	5	53	52.07	...	121	32	34.1	R	Feb. 3	...		15	5.70	...		25	22.9	R
160 <i>R P. L. 43.</i>										5	...		15	5.74	...		25	22.9	R
Jan. 28	...	5	54	41.59	3	3	14	15.2	M	7	...		15	5.69	...		25	22.8	R
161 <i>Anon.</i>										8	...		15	5.74	5		25	21.2	R
Feb. 7	...	5	55	0.63	5	121	30	58.1	R	11	...		15	5.72	...		25	21.8	R
162 64 Orionis χ^3										12	...		15	5.71	...		25	21.2	R
Jan. 24	5.5	5	55	45.53	...	70	18	35.1	M	169 <i>Taylor 2474.</i>									
163 67 Orionis ν										Feb. 21	6°0	6	13	22.59	...	121	43	30.7	M
Jan. 22	...	6	0	8.96	6	75	13	6.3	M	170 <i>Taylor 2485.</i>									
26	...		0	9.05	...		13	7.6	M	Feb. 15	8.5	6	13	33.98	...	151	16	17.4	R
27	...		0	9.10	...		13	7.2	M	171 18 Geminorum ν									
29	...		0	8.34	...		13	6.0	M	Jan. 29	...	6	21	14.69 ⁷⁰	...	69	42	31.2	M
Feb. 2	...		0	8.96	...		13	7.6	R	Feb. 12	...		21	14.69 ⁷⁰	...		42	31.6	R
3	...		0	8.96	...		13	8.2	R	172 <i>Lacaille 2312.</i>									
4	...		0	9.05	...		13	7.4	R	Feb. 7	7.3	6	22	11.62	5	153	36	46.3	R
5	...		0	8.99	...		13	8.3	R	173 <i>Anon.</i>									
7	...		0	9.00	...		13	7.9	R	Feb. 5	9°0	6	22	18.33	...	123	43	53.4	R
8	...		0	9.08	...		13	7.8	R	174 <i>Lacaille 2329.</i>									
164 <i>Taylor 2321.</i>										Feb. 4	6.7	6	24	7.43	5	153	45	6.0	R
Feb. 9	7°6	6	0	58.06 ^{5.49}	...	141	5	27.0	R										
15	7°0		0	55.79	...		5	26.2	R										

35.43

52.03

5.74

8.90

9.01

55.99

14.74

14.70

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.		
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"			
175 Taylor 2529.									51 Cephei, Hev.—s.p.												
Jan. 18	6.9	6	24	32.73	...	130	59	29.2	M	May 17	...	6	38	40.51	1	2	45	39.8	M		
										Aug. 2	...		38	41.38	2			45	40.6	R	
										22	...		38	41.01	3			45	39.2	R	
176 Anon.									182 Anon.												
Feb. 28	8.9	6	28	50.13	...	130	32	24.6	M	Feb. 8	9.5	6	39	19.25	...	131	3	44.7	R		
177 24 Geminorum γ									183 Anon.												
Jan. 11	...	6	30	12.07	...	73	29	33.7	R	Jan. 18	9.0	6	40	35.98	...	151	59	14.0	M		
12	...		30	12.02	...		29	34.9	R	184 Anon.											
Feb. 1	...		30	12.11	...		29	34.0	R	Feb. 25	8.0	6	42	48.77	...	130	36	44.8	M		
3	...		30	12.25	...		29	34.0	R	185 Anon.											
4	...		30	12.19	...		29	34.5	R	Feb. 5	9.5	6	45	1.71	...	128	30	51.9	R		
5	...		30	12.11	...		29	33.3	R	26	9.3		45	1.81	...			30	51.3	M	
7	...		30	12.13	...		29	34.2	R	186 Anon.											
9	...		30	12.13	...		29	35.4	R	Feb. 10	9.7	6	45	13.51	...	106	33	7.9	R		
10	...		30	12.06	...		29	34.2	R	187 Anon.											
11	...		30	12.06	...		29	34.1	R	Feb. 3	...	6	49	0.08	...	128	46	28.0	R		
14	...		30	12.02	...		29	32.7	R	188 Anon.											
19	...		30	11.92	...		29	33.4	M	Feb. 21	9.3	6	49	54.93	...	129	8	49.0	M		
22	...		30	12.15	5		29	34.2	M	189 Anon.											
24	...		30	12.12	...		29	33.4	M	Feb. 5	9.0	6	51	39.57	...	131	9	7.7	R		
178 Anon.									190 21 Canis Majoris ε												
Feb. 25	8.9	6	31	34.83	...	140	0	27.5	M	Jan. 12	...	6	58	31.00	...	118	47	50.3	R		
179 Anon.									Jan. 18	...		53	31.19	...			47	49.1	M		
Feb. 21	9.0	6	36	24.71	...	130	21	21.8	M	26	...		53	30.01	...			47	49.0	M	
180 Taylor 2667.									Feb. 4	...		53	30.85	...			47	50.0	R		
Feb. 5	8.7	6	38	28.07	...	149	0	0.2	R	7	...		53	31.02	...			47	49.3	R	
181 51 Cephei, Hev.									9	...		53	31.01	5			47	50.0	R		
Feb. 2	...	6	38	40.30	3		2	45	38.8	R	19	...		53	31.12	...			47	48.7	M
4	...		38	40.87	2			45	38.1	R	22	...		53	30.96	...			47	49.1	M
14	...		38	40.64	2			45	36.7	R	24	...		53	31.14	4			47	49.2	M
23	...		38	41.13	1			45	37.0	M	25	...		53	31.11	...			47	49.2	M

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[46.4]

49.9

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
191 43 Geminorum 3, Var. 1.										200 Anon										
Dec. 10	...	6	56	23.85	...	69	14	30.9	R	Jan. 18	8.2	7	9	5.58	...	180	17	54.4	M	
192 23 Canis Majoris γ										201 Lalande 14177.										
Jan. 11	...	6	57	52.69	...	105	26	37.1	R	Feb. 22	...	7	11	37.47	...	67	44	29.0	R	
24	...	57	52.69	5	...	26	30.4	M	24	6.2	11	37.58	...	44	28.5	M				
26	...	57	52.64	5	...	26	36.7	M	26	6.8	11	37.61	...	44	29.6	M				
Feb. 8	...	57	52.62	...	...	26	36.1	R											
9	...	57	52.66	...	...	26	34.5	R											
10	...	57	52.68	...	...	26	35.9	R											
14	...	57	52.61	...	...	26	35.8	R											
26	...	57	52.77	...	...	26	35.4	M											
193 Anon.										202 55 Geminorum δ										
Mar. 4	9.3	6	59	33.45	...	67	0	23.3	R	Jan. 11	...	7	12	21.86	...	67	46	54.0	R	
										12	...	12	21.86	...	46	52.5	R			
										Feb. 1	...	12	21.41	3	46	51.2	R			
										2	...	12	21.44	...	46	52.2	R			
										10	...	12	21.46	...	46	51.9	R			
										12	...	12	21.45	...	46	52.9	R			
										14	...	12	21.41	...	46	52.2	R			
										19	...	12	21.54	...	46	51.4	M			
										25	...	12	21.29	6	46	51.6	M			
										Mar. 2	...	12	21.36	...	46	51.5	R			
										3	...	12	21.45	...	46	52.1	R			
										Dec. 10	...	12	21.42	...	46	52.6	R			
194 Anon.										203 Taylor 3005.										
Feb. 7	9.0	7	1	34.01	...	61	4	39.5	R	Mar. 7	7.3	7	15	34.38 ⁴²	...	149	1	33.7	R	
Mar. 3	9.5	1	33.03	...	4	40.1	R													
195 Lacaille 2639.										204 6 Canis Minoris.										
Feb. 28	6.9	7	1	58.89	...	140	9	48.1	M	Feb. 23	6.0	7	22	33.61	...	77	48	44.3 ^{37.3}	M	
196 Anon.																				
Feb. 25	9.1	7	5	9.69	...	130	43	5.9	M											
197 Anon.										205 R. P. L. 45.										
Feb. 8	8.3	7	6	4.14 ^{1.2}	5	129	23	50.1	R	Jan. 31	...	7	22	53.79 ^{50.98}	3	0	59	44.4	M	
										Feb. 9	...	22	51.62 ^{50.44}	2	59	45.5	R			
198 Lacaille 2678.										206 Anon.										
Feb. 21	8.9	7	6	16.83	6	148	9	50.3	M	Mar. 4	10.2	7	23	59.41	...	42	1	29.1	R	
199 Anon.										207 Anon.										
Jan. 29	...	7	6	50.85 ⁴	...	129	3	21.9	M	Feb. 19	9.2	7	25	0.89	...	121	1	5.5	M	

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
208 Anon.										216 78 Geminorum β , Pollux.										
24, 18 Mar. 7	8.0	7	25	39 ¹⁸ 65	...	129	18	48.4	R	Jan. 12	...	7	37	21.49	...	61	39	45.8	R	
										24	...			37	21.87	3		39	44.1	M
										28	...			37	21.58	...		39	44.5	M
										Feb. 10	...			37	21.54	...		39	46.9	R
										19	...			37	21.49	...		39	44.5	M
										21	...			37	21.33	5		39	48.8	M
										22	...			37	21.49	5		39	44.9	M
										24	...			37	21.40	...		39	44.6	M
										25	...			37	21.42	...		39	44.5	M
										26	...			37	21.44	4		39	44.8	M
										Mar. 2	...			37	21.50	6		39	44.7	R
209 66 Geminorum α^2 , Castor.										217 Anon.										
Jan. 18	...	7	26	18.08	...	57	49	46.0	M	Mar. 8	8.8	7	41	0 ³⁴ 68	...	153	10	32.4	R	
24	...		26	18.09	...		49	45.1	M	218 Anon.										
27	...		26	18.14	...		49	46.3	M	Feb. 2	9.0	7	41	49.10	6	148	9	10.5	R	
28	...		26	18.08	...		49	45.1	M	219 Anon.										
Feb. 1	...		26	18.16	...		49	45.5	R	Mar. 4	9.5	7	42	14 ⁶⁶ 61	...	152	58	50.8	R	
21	...		26	18.27	...		49	47.3	M	11	9.5		42	14 ⁴⁸ 55	...		58	47.2	R	
24	...		26	18.08	...		49	45.4	M	220 Anon.										
26	...		26	17.94	...		49	45.7	M	Mar. 1	8.0	7	45	32.95	...	129	27	47.7	R	
210 Anon.										3	...		45	32.74	...		27	45.2	R	
Mar. 2	9.0	7	27	17.19	...	153	11	28 ⁵³ 4	R	221 Anon.										
211 Anon.										Feb. 23	8.9	7	46	37.94	...	144	23	22.9	M	
Feb. 15	8.7	7	30	48.49	...	121	55	13.6	R	222 U Geminorum Var. 5.										
212 74 Geminorum f										Jan. 17	9.6	7	47	22.96	6	67	39	34.8	M	
Feb. 25	...	7	31	58.06	...	72	1	55.3	M	18	9.4		47	23.32	...		39	35.5	M	
213 10 Canis Minoris α , Procyon.										19	9.8		47	23.33	...		39	35.1	M	
Jan. 12	...	7	32	29.69	...	84	26	41.2	R	223 Taylor 3323.										
Feb. 1	...		32	29.68	...		26	39.7	R	Mar. 4	9.0	7	49	54 ³⁴ 29	...	149	16	37.1	R	
2	...		32	29.65	...		26	40.9	R	214 77 Geminorum κ										
12	...		32	29.73	...		26	39.8	R	Jan. 17	...	7	36	35.49	...	65	17	34.6	M	
21	...		32	29.69	...		26	40.8	M	Feb. 12	...		36	35.81	6		17	34.8	R	
214 77 Geminorum κ										215 Anon.										
Jan. 17	...	7	36	35.49	...	65	17	34.6	M	Jan. 26	8.0	7	36	43.11	...	128	56	3.2	M	
Feb. 12	...		36	35.81	6		17	34.8	R	216 78 Geminorum β , Pollux.										

24, 18

[25.5]

24, 7

21.55

0.39

14.66

14.48

54.54

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.		
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"			
224 Anon.									234 W. B. N. VII. 1684.												
Feb. 2	9.5	7	49	56.26	5	130	22	58.7	R	Jan. 22	8.6	8	1	45.04	...	69	30	14.9	M		
										26	8.7			1	45.14	...		30	15.3	M	
										Feb. 26	8.9			1	44.94	...		30	15.0	M	
225 Lacaille 3082.									235 Anon.												
Feb. 25	7.8	7	51	55.49	...	130	23	28.0	M	Feb. 8	9.5	8	1	45.70	6	60	14	7.9	R		
226 Anon.									236 15 Argus.												
Mar. 8	9.7	7	52	14.50	5	151	41	26.7	R	Jan. 19	...	8	2	0.42	4	113	55	53.5	M		
										24	...			2	0.49	...		55	53.2	M	
										28	...			2	0.43	...		55	53.5	M	
										Feb. 8	...			2	0.52	...		55	53.3	R	
										15	...			2	0.45	...		55	53.6	R	
										22	...			2	0.47	...		55	52.7	M	
										23	...			2	0.87	...		55	52.8	M	
227 Anon.									237 Anon.												
Mar. 7	8.2	7	52	33.22 32.06	...	151	31	30.5	R	Mar. 14	9.0	8	5	50.60	...	128	39	47.5	R		
228 Anon.									238 Anon.												
Mar. 11	8.0	7	53	2.76 2.52	5	144	42	30.3	R	Mar. 2	10.0	8	8	39.77	3	77	27	35.2	R		
229 6 Caneri.									239 Anon.												
Feb. 9	...	7	55	31.85	...	61	50	37.0	R	Feb. 2	9.4	8	10	13.30	5	150	47	47.0	R		
31	...			55	31.88	...		50	40.2	M											
230 Anon.									240 Anon.												
Feb. 2	9.3	7	56	44.20	...	129	22	19.1	R	Mar. 7	9.7	8	10	25.13	5	150	33	42.5	R		
231 Anon.									241 Anon.												
Mar. 2	9.5	7	57	43.65	5	156	26	6.3	R	Feb. 25	9.5	8	12	6.25	...	61	9	11.7	M		
232 Anon.									242 19 Caneri λ												
Feb. 4	...	8	1	5.32	5	00	20	24.0	R	Mar. 4	9.3			12	6.38	...		9	12.3	R	
9	10.0			1	5.16	5		20	25.6	R	15	...			12	6.34	...		9	12.2	R
Mar. 11	9.4			1	5.33	...		20	24.7	R											
233 Anon.									243 Anon.												
Mar. 8	9.8	8	1	19.38	...	69	20	44.9	R	Dec. 10	...	8	12	48.17	...	65	34	14.8	R		
12	10.4			1	19.26	5		20	48.4	R											

45.62

0.51

50.10

25.44

6.37

14.80

33.22

2.76

31.87

5.17

5.20

19.38

0.08

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
243 <i>Anon.</i>									251 <i>Lacaille 3430.</i>										
Feb. 3	8.0	8	12	54.78	5	130	36	21.8	R	Mar. 26	7.9	8	29	19.69	4	151	53	51.2	M
Mar. 11	8.0	12	54.21	...	...	36	20.9	R										
244 <i>Anon.</i>									252 <i>W. B. N. VIII. 699.</i>										
Feb. 5	8.7	8	12	54.79	...	130	29	26.1	R	Mar. 7	8.5	8	29	51.72	...	70	40	50.4	R
245 <i>Anon.</i>									253 <i>Anon.</i>										
Mar. 12	10.0	8	18	56.16	5	70	3	8.5	R	Mar. 3	9.0	8	30	27.15	...	128	48	24.0	R
246 <i>Anon.</i>									254 <i>Anon.</i>										
Jan. 29	8.8	8	21	9.79	6	153	19	18.1	M	Mar. 9	9.3	8	31	25.51	5	129	46	38.2	R
247 <i>Anon.</i>									255 <i>Lacaille 3475.</i>										
Mar. 7	8.6	8	21	44.13	...	153	18	40.4	R	Feb. 19	6.7	8	35	0.52	...	152	23	50.0	M
248 <i>33 Cancri η</i>									256 <i>43 Cancri γ</i>										
Jan. 18	...	8	25	11.23	6	69	7	10.2	M	Feb. 14	...	8	35	45.59	...	68	3	57.5	R
19	...	25	11.22	...	...	7	8.9	M										
Feb. 2	...	25	11.31	...	...	7	11.3	R										
11	...	25	11.30	...	...	7	11.4	R										
14	...	25	11.27	...	...	7	9.7	R										
15	...	25	11.24	...	...	7	10.2	R										
16	...	25	11.22	...	...	7	11.5	M										
Mar. 1	...	25	11.21	...	...	7	9.5	R										
2	...	25	11.33	...	...	7	9.8	R										
4	...	25	11.36	...	...	7	10.0	R										
5	...	25	11.24	...	...	7	8.8	R										
9	...	25	11.25	...	...	7	11.3	R										
10	...	25	11.36	...	...	7	9.8	R										
21	...	25	11.25	...	...	7	7.8	M										
24	...	25	11.37	...	...	7	9.8	M										
249 <i>Anon.</i>									257 <i>Anon.</i>										
Feb. 9	10.3	8	25	56.87	3	61	48	57.3	R	Mar. 22	9.0	8	37	1.90	5	81	35	25.0	M
10	10.0	25	56.84	6	48	53.3	R												
250 <i>Anon.</i>									258 <i>47 Cancri δ</i>										
Mar. 14	9.5	8	28	58.99	...	75	20	19.7	R	Jan. 17	...	8	37	17.52	6	71	22	13.8	M
									18 ... 37 17.67 4 22 11.8 M										
									Mar. 14 ... 37 17.67 ... 22 9.8 R										
259 <i>Anon.</i>									260 <i>Anon.</i>										
Mar. 8	9.3	8	37	28.64	6	136	9	48.6	R	Jan. 19	8.0	8	37	31.12	...	81	27	10.6	M
261 <i>W. B. E. VIII. 991.</i>																			
Mar. 9	9.9	8	39	10.68	...	81	43	26.0	R										

54.57

56.14

9.66

44.43

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24

56.84

97

51.71

25.64

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
262 <i>11 Hydræ ε</i>										269 <i>Anon.</i>									
Feb. 15	...	8	39	53.40	...	83	6	22.4	R	Mar. 26	7.5	8	49	58.07	6	133	0	22.4	M
16	...	30	53.45	...		6	22.3	M	270 <i>9 Ursæ Majoris ε</i>										
23	...	39	53.40	...		6	22.2	M	Feb. 16	...	8	50	17.74	...	41	26	59.3	M	
Mar. 1	...	30	53.35	...		6	22.0	R	271 <i>Anon.</i>										
3	...	39	53.36	...		6	21.6	R	Mar. 10	9.7	8	51	15.06	...	98	36	34.6	R	
4	...	39	53.40	...		6	22.1	R	272 <i>Anon.</i>										
5	...	39	53.44	...		6	21.8	R	Mar. 23	8.6	8	52	32.22	...	77	33	53.4	M	
7	...	39	53.36	...		6	22.0	R	273 <i>Anon.</i>										
10	...	39	53.37	...		6	22.6	R	Apl. 1	8.6	8	55	0.30	...	130	36	51.5	M	
11	...	39	53.34	...		6	22.7	R	274 <i>Taylor 3941.</i>										
12	...	39	53.31	...		6	22.6	R	Mar. 14	8.8	8	55	10.04	...	144	7	46.2	R	
15	...	39	53.33	...		6	22.2	R	275 <i>Anon.</i>										
16	...	30	53.38	...		6	22.7	R	Feb. 15	...	8	55	19.08	5	146	58	3.8	R	
21	...	39	53.31	...		6	20.4	M	Mar. 30	8.0	55	18.35	4	58	3.7	M			
24	...	39	53.25	...		6	20.9	M	276 <i>Anon.</i>										
26	...	39	53.52	...		6	21.9	M	Mar. 12	9.7	8	56	29.94	5	146	52	22.7	R	
28	...	39	53.45	...		6	22.9	M	277 <i>Anon.</i>										
263 <i>Anon.</i>										Mar. 9	8.6	8	56	43.68	...	140	57	7.7	R
Feb. 21	8.4	8	41	10.59	...	147	18	2.2	M	278 <i>Anon.</i>									
264 <i>f Velorum.</i>										Mar. 11	9.3	8	56	56.36	5	129	19	34.5	R
Mar. 30	7.0	8	46	8.35	5	136	2	38.4	M	279 <i>Anon.</i>									
31	7.6	46	8.35	4	2	39.5	M	Apl. 2	8.0	8	57	4.47	6	146	35	59.4	M		
265 <i>Anon.</i>										280 <i>Anon.</i>									
Mar. 7	9.0	8	47	43.03	...	69	38	31.8	R	Mar. 29	9.1	8	58	15.26	6	146	51	7.8	M
9	9.0	47	42.93	...	38	80.9	R												
266 <i>R. P. L. 60.</i>																			
Mar. 22	...	8	47	46.01	3	5	18	13.0	M										
29	...	47	46.51	3	18	13.2	M												
267 <i>Anon.</i>																			
Mar. 8	10.0	8	48	21.08	...	138	26	31.4	R										
12	10.0	48	21.42	4	26	31.8	R												
268 <i>Anon.</i>																			
Mar. 11	8.7	8	49	21.29	5	138	28	48.8	R										

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16.24 31.7

10.10

43.01

29.14

48.93

21.78
.55

57.01

21.87

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.				
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"					
281 77 Cancri ξ										291 83 Cancri.													
52-87 Mar. 14	...	9	1	52 ⁸ 8 ²	...	67	25	50.0	R	Jan. 19	...	9	11	43.30	6	71	44	43.4	M				
282 Anon.										Feb. 14	...	11	43.41	...	44	44.7	R						
Mar. 28	7.7	9	6	38.28	...	142	30	55.4	M	15	...	11	43.37	...	44	44.5	R						
31	7.8	6	38.24	...	30	55.8	M	283 Anon.															
283 Anon.										23	...	11	43.44	...	44	43.4	M						
Apl. 4	8.6	9	6	58.77	...	142	25	46.7	M	25	...	11	43.38	6	44	43.8	M						
284 Anon.										26	...	11	43.38	5	44	43.5	M						
18-20 Mar. 10	10.2	9	7	18 ²⁰ 65	...	124	52	37.2	R	Mar. 1	...	11	43.35	...	44	43.4	R						
285 Lacaille 3747.										7	...	11	43.36	...	44	42.1	R				25-5		
Mar. 21	8.0	9	7	54.13	...	150	25	15.5	M	15	...	11	43.33	...	44	43.7	R						
286 82 Cancri π^2										16	...	11	43.36	...	44	44.1	R						
Feb. 14	...	9	8	3.12	...	74	31	15.4	R	24	...	11	43.28	...	44	42.9	M						
15	...	8	3.04	...	31	16.6	R	287 Lalande 18251.															
287 Lalande 18251.										29	...	11	43.32	...	44	42.6	M						
Mar. 22	7.7	9	8	42.16	...	74	27	7.7	M	30	...	11	43.40	...	44	43.1	M						
Apl. 1	7.7	8	42.07	6	27	8.6	M	288 Anon.															
5	7.7	8	42.29	...	27	8.0	M	Mar. 26	8.6	9	9	27.27	...	150	33	15.9	M						
288 Anon.										292 Argus.													
288 Anon.										Feb. 16	...	9	13	36.57	...	148	43	52.3	M				
289 Lacaille 3761.										19	...	13	36.78	...	43	50.7	M						
35-44 Mar. 11	8.5	9	9	38 ²⁴ 62	...	150	22	51.1	R	293 Anon.													
289 Lacaille 3761.										Mar. 31	8.0	9	15	13.48	5	150	30	14.5	M				
290 Anon.										294 Anon.													
23-40 Mar. 12	9.5	9	10	23 ⁴⁰ 13	5	150	26	52.7	R	Mar. 12	8.5	9	15	25 ⁴³ 19	...	150	25	50.0	R				25-43
290 Anon.										Apl. 2	8.2	15	25.21	6	25	48.6	M						
291 83 Cancri.										295 Anon.													
291 83 Cancri.										Apl. 6	7.8	9	15	26.73	...	143	50	14.6	M				
292 Argus.										296 Anon.													
292 Argus.										Mar. 14	8.0	9	15	50 ⁹ 45	...	124	48	21.5	R				50.49
293 Anon.										297 Anon.													
293 Anon.										Mar. 28	9.2	9	16	40.56	6	70	23	13.4	M				
294 Anon.										298 Taylor 4128.													
294 Anon.										Apl. 5	7.0	9	18	20.37	4	72	51	19.2	M				

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		h	m.	s.		o	'	"				h	m.	s.		o	'	"	
299 30 <i>Hydrae</i> α Var. 2.										308 <i>Anon.</i>									
Feb. 17	...	9	21	11 ³⁴	...	98	5	49 ¹	M	Mar. 29	8 ⁰	9	32	26 ⁰⁰	...	120	41	27 ¹	M
23	...		21	11 ³²	...		5	47 ⁸	M	30	8 ⁰		32	26 ³³	...		41	26 ⁸	M
Mar. 1	...		21	11 ³⁹	...		5	47 ⁹	R	309 <i>Anon.</i>									
4	...		21	11 ³⁷	...		5	48 ¹	R	Mar. 31	7 ⁹	9	33	8 ⁵⁴	...	129	49	9 ⁵	M
5	...		21	11 ³⁶	...		5	47 ⁷	R	310 <i>R. P. L.</i> 69.									
7	...		21	11 ³⁵	...		5	47 ⁹	R	Mar. 3	...	9	34	46 ⁵⁵	3	2	48	24 ⁷	R
8	...		21	11 ³³	...		5	47 ⁷	R	8	...		34	46 ⁵⁵	3		48	24 ²	R
22	...		21	11 ⁰³	...		5	48 ³	M	11	...		34	46 ⁵⁵	2		48	24 ⁸	R
26	...		21	11 ³²	...		5	48 ²	M	15	...		34	47 ⁴⁰	2		48	24 ²	R
29	...		21	11 ⁷⁸	...		5	47 ⁵	M	311 <i>Taylor</i> 4280.									
30	..		21	11 ³⁶	...		5	48 ⁰	M	Mar. 21	8 ⁰	9	34	56 ⁷²	...	142	21	19 ⁵	M
300 <i>Lalande</i> 18636.										Apl. 2	7 ¹		34	56 ⁷⁷	...		21	21 ¹	M
Mar. 21	8 ³	9	22	1 ⁵⁷	...	68	31	9 ⁴	M	4	8 ⁰		34	56 ⁸⁸	5		21	21 ⁹	M
301 <i>Lalande</i> 18659.										312 <i>Anon.</i>									
Apl. 4	8 ⁰	9	22	58 ⁰⁹	...	67	51	0 ⁹	M	Mar. 10	9 ²	9	35	41 ⁵⁹	4	148	31	9 ⁷	R
302 <i>Anon.</i>										Apl. 5	9 ²		35	41 ⁷⁷	6		31	10 ⁹	M
Mar. 15	7 ⁰	9	23	0 ⁸²	...	67	37	8 ⁸	R	313 16 <i>Leonis</i> ψ									
303 25 <i>Ursae Majoris</i> θ										Feb. 16	...	9	36	39 ¹²	...	75	28	6 ²	M
Feb. 16	...	9	24	8 ⁸⁹	...	37	43	55 ³	M	314 17 <i>Leonis</i> ϵ									
304 <i>Lacaille</i> 3886.										Mar. 2	...	9	38	28 ⁰⁹	...	65	37	43 ⁴	R
Apl. 18	7 ⁹	9	24	55 ⁵⁶	6	141	51	22 ⁶	M	7	...		38	28 ⁰⁹	...		37	43 ⁰	R
305 <i>Taylor</i> 4226.										9	...		38	28 ⁰²	...		37	43 ³	R
Apl. 1	7 ¹	9	28	48 ⁴⁴	5	146	31	8 ²	M	12	...		38	28 ¹⁰	...		37	42 ⁹	R
306 <i>Anon.</i>										26	...		38	28 ⁰⁸	...		37	42 ⁷	M
Mar. 28	8 ³	9	29	15 ⁷⁵	6	198	51	9 ⁶	M	28	...		38	28 ⁰⁷	5		37	43 ⁴	M
307 <i>Anon.</i>										Apl. 7	...		38	28 ⁰⁸	...		37	42 ⁵	R
Mar. 7	...	9	29	43 ⁵³	...	146	35	9 ⁷	R	315 <i>Anon.</i>									
308 <i>Anon.</i>										Mar. 29	8 ⁰	9	41	44 ¹⁴	...	130	47	30 ⁵	M

11.88
.89
.92
.88

47.12
46.72

41.90

27.97
28.08
.08

43.73

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Number and Date.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
	h.	m.	s.		o.	'	"			h.	m.	s.		o.	'	"	
316 <i>Lalande</i> 19286.									324 <i>W. B. N. IX.</i> 1189.								
Feb. 25	7 ⁵	9 43	33 ⁴⁹	...	89	17	29 ⁸	M	Mar. 10	9 ⁸	9 56	47 ³⁴	4	73	9 24 ⁰	R	
26	7 ⁴	43	33 ⁴⁵	...	17	29 ⁶	M	325 <i>Anon.</i>									
Mar. 14	7 ²	43	33 ⁵³	...	17	28 ⁰	R	Mar. 17	9 ³	9 59	41 ⁵²	...	86	32 5 ³	R		
317 <i>Anon.</i>									326 <i>14 Sextantis.</i>								
Mar. 30	8 ¹	9 44	16 ⁹⁶	5	147	3 16 ³	M	Apl. 18	6 ⁰	9 59	59 ³⁶	...	83	45 21 ⁷	M		
318 <i>Anon.</i>									327 <i>W. B. N. IX.</i> 1282.								
Mar. 10	10 ¹	9 47	26 ⁹⁸	...	5 ⁴	75 35	9 ⁸	R	Apl. 2	8 ⁰	10 0	38 ⁰⁷	5	73 5 21 ⁰	M		
319 <i>W. B. N. IX.</i> 1020.									328 <i>32 Leonis a, Regulus.</i>								
Mar. 21	8 ⁹	9 48	46 ⁹⁰	6	71	50 32 ⁸	M	Jan. 18	...	10 1	26 ⁷¹	...	77	23 55 ³	M		
320 <i>W. B. N. IX.</i> 1047.									Feb. 15	...	1	26 ⁷²	...	23	56 ⁷	R	
Apl. 4	8 ⁷	9 49	52 ³⁵	...	72	19 35 ⁷	M	16	...	1	26 ⁷¹	...	23	55 ⁵	M		
321 <i>27 Leonis ν</i>									17	...	1	26 ⁸¹	...	23	55 ⁵	M	
Jan. 18	...	9 51	13 ⁷³	...	76	56 10 ⁷	M	Mar. 3	...	1	26 ⁸¹	...	23	55 ⁴	R		
322 <i>29 Leonis π</i>									8	...	1	26 ⁷⁸	...	23	55 ³	R	
Feb. 17	...	9 53	20 ⁴⁶	...	81	20 0 ⁸	M	11	...	1	26 ⁷⁶	...	23	55 ¹	R		
Mar. 3	...	53	20 ⁶⁰	...	20	0 ⁷	R	14	...	1	26 ⁸²	...	23	54 ⁰	R		
8	...	53	20 ⁵⁵	...	19	57 ⁷	R	15	...	1	26 ⁷⁶	...	23	54 ⁷	R		
9	...	53	20 ⁵³	...	20	1 ²	R	22	...	1	26 ⁷⁹	...	23	55 ²	M		
11	...	53	20 ⁵⁹	...	19	59 ⁴	R	29	...	1	26 ⁷⁵	...	23	54 ⁵	M		
12	...	53	20 ⁶²	...	20	0 ⁵	R	30	...	1	26 ⁷³	...	23	58 ⁰	M		
22	...	53	20 ⁵¹	3	20	0 ⁸	M	31	...	1	26 ⁹⁰	...	23	54 ⁵	M		
26	...	53	20 ⁵⁰	...	19	58 ⁷	M	Apl. 1	...	1	26 ⁸²	...	23	55 ⁰	M		
28	...	53	20 ⁴⁹	...	19	59 ²	M	4	...	1	26 ⁶⁹	...	23	55 ³	M		
29	...	53	20 ⁵⁸	6	20	0 ⁸	M	5	...	1	26 ⁸²	...	23	54 ⁸	M		
30	...	53	20 ⁴⁸	4	20	0 ⁹	M	6	...	1	26 ⁷⁵	...	23	54 ⁸	M		
Apl. 1	...	53	20 ⁵⁵	...	19	59 ⁶	M	25	...	1	26 ⁷⁰	...	23	54 ⁵	M		
5	...	53	20 ⁵³	...	19	58 ⁸	M	26	...	1	26 ⁸⁰	4	23	55 ⁰	M		
8	...	53	20 ⁴⁷	...	10	58 ⁵	R	329 <i>Anon.</i>									
323 <i>Anon.</i>									Apl. 7	8 ⁷	10 1	36 ³⁹	5	130	3 41 ⁷	R	
Mar. 2	...	9 55	2 ¹⁵	...	125	19 7 ¹	R	330 <i>Anon.</i>									
16	...	55	2 ⁰⁶	...	19	7 ⁷	R	Apl. 8	...	10 2	16 ⁶⁴	5	120	58 8 ⁹	R		

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20-54
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Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
331 <i>Anon.</i>										340 <i>Anon.</i>									
Mar. 4	9.7	10	2	35.34	...	123	29	7.3	R	Mar. 29	8.8	10	14	50.65	5	150	27	28.1	M
16	9.2		2	35.88	..		29	9.4	R										
332 <i>33 Leonis.</i>										341 <i>Anon.</i>									
Feb. 21	8.5	10	3	40.94	6	73	39	23.3	M	Mar. 30	8.0	10	16	14.70	...	125	34	9.0	M
333 <i>Anon.</i>										342 <i>Taylor 4682.</i>									
Mar. 16	9.7	10	4	49.34	5	123	30	34.4	R	Mar. 16	7.8	10	21	51.42	...	74	59	35.4	R
										Apl. 18	7.7		21	51.31	...		59	86.7	M
334 <i>Taylor 4552.</i>										343 <i>30 Sextantis.</i>									
Feb. 18	6.9	10	7	14.88	...	147	25	10.0	M	Mar. 2	...	10	23	38.78	...	89	58	15.5	R
Mar. 28	6.9		7	14.09	...		25	9.7	M	Apl. 21	...		23	38.73	...		58	17.1	M
335 <i>Anon.</i>										344 <i>Anon.</i>									
Mar. 17	7.2	10	8	13.73	...	139	58	2.9	R	Apl. 23	8.0	10	25	1.10	...	125	35	44.3	M
336 <i>Anon.</i>										345 <i>Anon.</i>									
Mar. 9	9.0	10	9	15.47	5	139	53	26.8	R	Mar. 31	7.9	10	25	38.23	5	146	52	31.0	M
337 <i>R. P. L. 72.</i>										346 <i>47 Leonis ρ</i>									
Feb. 17	...	10	10	20.75	3	5	5	24.8	M	Feb. 15	...	10	25	57.87	...	80	1	32.9	R
Apl. 4	...		10	20.53	2		5	23.9	M	16	...		25	57.95	...		1	30.8	M
										Mar. 10	...		25	57.77	...		1	31.4	R
										18	...		25	57.87	...		1	31.5	R
										Apl. 1	...		25	57.85	...		1	31.0	M
										2	...		25	57.97	...		1	30.2	M
										5	...		25	57.88	6		1	30.5	M
										7	...		25	57.82	...		1	30.8	R
										8	...		25	57.90	...		1	30.2	R
										9	...		25	57.87	...		1	31.1	R
										11	...		25	57.78	...		1	31.3	R
										20	...		25	57.74	...		1	31.0	M
										30	...		25	57.82	...		1	33.0	M
338 <i>41 Leonis γ¹</i>										347 <i>ρ Carinae.</i>									
Mar. 10	...	10	12	48.24	...	69	30	9.0	R	Feb. 18	...	10	27	24.30	5	151	1	0.9	M
31	...		12	47.96	...		30	8.0	M										
Apl. 1	...		12	48.09	...		30	7.5	M										
2	...		12	45.15	...		30	7.0	M										
5	...		12	48.07	...		30	7.8	M										
6	...		12	47.98	...		30	8.1	M										
20	...		12	48.27	...		30	7.8	M										
21	...		12	48.10	...		30	7.8	M										
339 <i>Anon.</i>																			
Apl. 7	9.2	10	18	6.98	...	128	38	43.4	R										

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Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
367 <i>Anon.</i>									375 <i>Lalande 21367.</i>											
Apl. 9	...	10	53	47.85	...	149	16	41.9	R	Apl. 23	...	11	3	37.55	...	78	7	48.2	M	
29	9.0		53	47.38	...			16	40.6	M										
368 <i>58 Leonis d</i>									376 <i>Lalande 21366.</i>											
Feb. 18	...	10	53	50.84	6	82	41	4.0	M	Apl. 26	8.0	11	3	40.08	...	64	9	42.3	M	
Apl. 26	5.1		53	50.79	...			41	7.4	M	29	7.9		3	39.99	...		9	41.6	M
27	5.0		53	50.59	...			41	6.0	M										
369 <i>Anon.</i>									377 <i>Taylor 5088.</i>											
Mar. 9	9.8	10	54	19.8 ¹	5	107	40	14.2	R	Mar. 31	7.1	11	5	10.34	...	149	40	45.4	M	
Apl. 30	9.1		54	19.93	4			40	11.7	M										
370 <i>Anon.</i>									378 <i>Lalande 21416.</i>											
Feb. 17	9.3	10	55	43.05	...	88	27	10.5	M	Apl. 21	8.0	11	5	17.80	...	67	14	20.2	M	
										22	8.0		5	17.89	...			14	19.6	M
										27	8.0		5	17.77	...			14	19.3	M
371 <i>63 Leonis χ</i>									379 <i>63 Leonis δ</i>											
Mar. 14	...	10	58	18.58	...	81	57	40.9	R	Feb. 18	...	11	7	11.45	...	68	45	53.7	M	
15	...		58	18.61	...			57	42.2	R	Mar. 17	...		7	11.40	...		45	52.1	R
16	...		58	18.58	...			57	42.2	R	18	...		7	11.46	...		45	52.9	R
17	...		58	18.58	...			57	40.3	R	22	...		7	11.45	...		45	52.7	M
18	...		58	18.65	...			57	41.9	R	28	...		7	11.54	...		45	53.1	M
21	...		58	18.62	...			57	40.9	M	Apl. 9	...		7	11.50	...		45	52.8	R
Apl. 7	...		58	18.60	...			57	41.8	R	11	...		7	11.50	...		45	52.5	R
8	...		58	18.60	...			57	40.7	R	18	...		7	11.43	...		45	53.1	M
9	...		58	18.63	...			57	40.7	R	20	...		7	11.54	...		45	52.0	M
11	...		58	18.60	...			57	40.4	R	25	...		7	11.43	...		45	52.6	M
										30	...		7	11.44	...			45	52.3	M
372 <i>Anon.</i>									380 <i>12 Crateris δ</i>											
Mar. 19	9.3	11	0	51.48	5	147	15	40.4	R	Feb. 18	...	11	12	50.32	...	104	4	31.8	M	
373 <i>67 Leonis.</i>									Apl. 22											
Apl. 28	6.0	11	1	50.42	...	64	38	18.4	M	23	...		12	50.55	...		4	30.6	M	
374 <i>Anon.</i>									26											
May 3	9.3	11	2	4.02	6	140	15	39.4	R	29	...		12	50.48	...		4	31.9	M	
										May 3	...		12	50.53	...		4	31.6	M	
																		4	32.1	R

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Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
381 <i>77 Leonis σ</i>									391 <i>91 Leonis ν</i>										
Feb. 16	...	11	14	25.98	...	88	15	30.3	M	Feb. 18	...	11	30	17.57	4	90	6	22.5	M
17	...	14	25.91	...		15	32.4	M	Mar. 31	...	30	17.64	...		6	22.2	M		
Apl. 13	...	14	25.80	...		15	30.8	R	Apl. 20	...	30	17.54	...		6	22.7	M		
382 <i>79 Leonis.</i>									25 30 17.61 6 6 24.1 M										
Apl. 25	...	11	17	22.01	...	87	52	46.8	M	26	...	30	17.62	...		6	23.6	M	
383 <i>Anon.</i>									28 30 17.43 ... 6 24.0 M										
Apl. 4	8.9	11	21	9.00	6	145	53	44.1	M	May 3	...	30	17.54	...		6	22.5	R	
28	9.0	21	8.71	...		53	43.9	M	5	...	30	17.88	...		6	21.9	R		
384 <i>84 Leonis τ</i>									392 <i>Lacaille 4850.</i>										
Apl. 20	...	11	21	15.16	...	86	25	41.2	M	Apl. 22	6.0	11	34	43.57	...	144	51	13.9	M
26	5.9	21	14.97	...		25	39.2	M	393 <i>3 Virginis ν</i>										
May 3	...	21	15.10	...		25	41.3	R	Feb. 16	...	11	39	10.55	...	82	44	32.7	M	
385 <i>Lalande 21819.</i>									Mar. 16										
May 5	8.0	11	21	15.96	...	86	27	12.9	R	17	...	39	10.51	5	44	32.3	R		
386 <i>Lalande 21833.</i>									May 11										
Apl. 21	7.0	11	21	45.85	5	86	27	15.4	M	...	...	39	10.60	...	44	32.0	R
387 <i>87 Leonis e</i>									394 <i>94 Leonis β, Deneb.</i>										
May 7	5.0	11	23	40.39	...	92	17	11.8	M	Mar. 19	...	11	42	25.52	...	74	42	4.9	R
388 <i>Anon.</i>									81 42 25.55 5 42 5.3 M										
Apl. 22	9.3	11	24	59.24	...	84	44	19.8	M	Apl. 4	...	42	25.67	...	42	6.1	M		
May 6	9.4	24	59.23	...		44	20.0	M	6	...	42	25.63	5	42	2.6	M			
389 <i>Anon.</i>									18 42 25.42 ... 42 6.5 M										
Apl. 23	9.4	11	25	24.09	...	151	33	29.1	M	21	...	42	25.70	...	42	5.3	M		
390 <i>Anon.</i>									23 42 25.65 ... 42 5.3 M										
Apl. 29	8.0	11	26	31.79	...	143	53	15.8	M	26	...	42	25.58	...	42	6.0	M		
									27 42 25.49 5 42 4.0 M										
									28 42 25.53 ... 42 5.6 M										
									29 42 25.44 ... 42 5.6 M										
									30 42 25.86 4 42 4.5 M										
									May 2 42 25.57 ... 42 4.6 R										
									3 42 25.56 ... 42 5.5 R										
									4 42 25.54 ... 42 6.1 R										
									5 42 25.61 ... 42 4.2 R										
									6 42 25.56 ... 42 6.3 M										
									7 42 25.58 ... 42 5.0 M										
									13 42 25.51 ... 42 5.2 M										
									14 42 25.74 ... 42 4.6 M										
									20 42 25.57 ... 42 5.6 M										

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Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
395		5 Virginis β								402		Anon.							
Mar. 16	...	11	43	55.47	...	87	30	10.5	R	May 4	9.0	12	3	57.06	...	145	59	4.5	R
17	...	43	55.38	...		30	10.8	R											
396		Anon.								403		Anon.							
Mar. 29	8.9	11	46	9.32	...	142	32	3.1	M	May 4	9.0	12	4	8.95	5	145	57	19.5	R
397		Lacaille 4956.								404		Anon.							
Apl. 22	8.0	11	51	27.47	...	154	35	57.3	M	May 5	...	12	6	14.88	...	150	21	4.4	R
398		Anon.								405		Anon.							
Mar. 19	8.5	11	53	31.84	...	151	50	14.9	R	Apl. 7	9.8	12	6	47.52	...	150	28	21.3	R
399		8 Virginis π								406		Anon.							
Apl. 28	...	11	54	12.06	...	82	39	38.3	M	May 2	...	12	9	13.19	5	97	15	24.7	R
May 11	...	54	12.61	...		39	37.6	R	4	9.7	9	13.16	5	15	24.5	R			
400		R. P. L. 89.								407		Lalande 22983.							
Apl. 27	...	11	58	10.89	2	3	41	30.9	M	Apl. 28	8.7	12	9	25.06	5	96	44	36.5	M
30	...	58	10.38	1		41	31.4	M	May 19	8.9	9	25.85	...	44	37.2	M			
May 23	...	58	10.72	2		41	31.1	M											
										408		Lalande 22993.							
										Apl. 29	8.0	12	9	41.00	...	96	48	33.1	M
										May 3	...	9	40.92	...	48	31.8	R		
										6	8.1	9	40.78	...	48	34.2	M		
										409		15 Virginis γ							
										Feb. 17	...	12	13	15.31	...	89	56	40.3	M
										18	...	13	15.40	...	56	39.7	M		
										Apl. 13	...	13	15.20	5	56	39.6	R		
										May 7	...	13	15.29	...	56	39.1	M		
										13	...	13	15.22	...	56	39.1	M		
										14	...	13	15.17	...	56	38.5	M		
										20	...	13	15.21	...	56	39.6	M		
										410		R. P. L. 93—s.p.							
										Nov. 28	...	12	14	19.04	1	1	34	44.9	M

145 58 19.5

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Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>				<i>h.</i>	<i>m.</i>	<i>s.</i>		<i>°</i>	<i>'</i>	<i>"</i>	
428 <i>R. P. L. 99.</i>										434 <i>51 Virginis θ</i>									
Apl. 18	...	12	48	12·61	3	5	52	50·1	M	Feb. 18	...	13	9	13·35	...	94	50	40·1	M
22	...		48	12·53	3		52	48·6	M	Mar. 19	...		3	13·19	...		50	41·1	R
May 5	...		48	12·15	3		52	46·8	R	Apl. 15	...		3	13·25	...		50	41·3	R
<i>R. P. L. 99—s.p.</i>										18	...		3	13·30	...		50	41·5	M
Oct. 12	...	12	48	11·94	3	5	52	50·8	R	22	...		3	13·16	...		50	40·4	M
Nov. 21	...		48	12·00	3		52	50·9	M	27	...		3	13·10	...		50	39·8	M
24	...		48	11·87	2		52	48·8	M	29	...		3	13·17	...		50	39·7	M
429 <i>12 Canum Venaticorum.</i>										May 2	...		3	13·18	...		50	41·5	R
Apl. 7	...	12	49	56·59	...	50	58	45·2	R	10	...		3	13·13	...		50	41·8	R
11	...		49	56·00	...		58	45·9	R	21	...		3	13·18	...		50	40·0	M
15	...		49	56·54	...		58	46·0	R	23	...		3	13·18	...		50	40·4	M
23	...		49	56·56	...		58	44·8	M	26	...		3	13·22	...		50	39·2	M
25	...		49	56·58	5		58	43·0	M	30	...		3	13·18	4		50	41·8	M
27	...		49	56·51	...		58	44·4	M	June 2	...		3	13·19	...		50	40·0	M
28	...		49	56·52	5		58	45·9	M	9	...		3	13·40	...		50	40·7	M
May 21	...		49	56·59	...		58	45·3	M	10	...		3	13·27	5		50	40·1	M
30	...		49	56·53	...		58	44·1	M	435 <i>Taylor 6057.</i>									
430 <i>O. A. S. 12539.</i>										May 27	6·0	13	4	12·11	...	149	13	42·4	M
May 18	6·8	12	50	18·95	...	118	9	49·0	M	436 <i>Anon.</i>									
431 <i>O. A. S. 12542.</i>										June 1	9·0	13	4	52·74	6	188	12	23·3	M
May 24	9·7	12	50	39·65	...	118	12	57·2	M	3	8·9		4	52·93	...		12	30·6	M
432 <i>Anon.</i>										437 <i>Lacaille 5434.</i>									
May 31	8·8	12	56	7·67	...	149	29	27·5	M	June 4	8·0	13	6	20·54	5	152	53	30·9	M
433 <i>48 Virginis.</i>										438 <i>65 Virginis.</i>									
Mar. 17	...	12	57	12·57	...	92	57	48·0	R	Feb. 18	...	13	16	34·80	...	94	14	38·1	M
18	...		57	12·63	5		57	49·6	R	Apl. 15	...		16	34·73	...		14	39·2	R
439 <i>Anon.</i>										439 <i>Anon.</i>									
439 <i>Anon.</i>										June 1	9·3	13	17	27·31	...	128	11	19·6	M

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
440 <i>67 Virginis a, Spica.</i>										446 <i>Anon.</i>									
Apl. 21	...	18	18	20.64	...	100	28	56.0	M	May 3	8.5	13	29	53.21	5	151	4	35.9	R
22	...	18	20	75	4	28	55.1	M	June 1	7.8	29	58.51	5	4	36.8	M			
28	...	18	20	73	...	28	55.6	M	447 <i>Anon.</i>										
May 2	...	18	20	75	...	28	54.7	R	May 26	7.8	13	33	19.11	...	129	3	26.8	M	
4	...	18	20	74	...	28	54.2	R	June 4	8.0	33	19.28	...	3	29.9	M			
18	...	18	20	75	...	28	54.6	M	448 <i>82 Virginis m</i>										
21	...	18	20	55	...	28	54.7	M	Mar. 19	...	13	34	47.34	5	98	2	45.9	R	
24	...	18	20	78	...	28	53.5	M	449 <i>Anon.</i>										
26	...	18	20	75	...	28	54.3	M	June 3	8.0	13	36	4.18	...	128	5	17.9	M	
27	...	18	20	74	...	28	54.6	M	450 <i>Taylor 6374.</i>										
30	...	18	20	74	...	28	54.4	M	May 5	7.0	13	38	8.39	...	151	56	15.9	R	
June 3	...	18	20	64	5	28	55.1	M	451 <i>Anon.</i>										
441 <i>79 Ursae Majoris 3, Mizar—1st.</i>										452 <i>85 Ursae Majoris η, Benetnaseh.</i>									
Apl. 29	...	13	18	41.28	...	34	23	42.4	M	May 10	...	13	42	24.75	...	40	2	12.1	R
442 <i>79 Ursae Majoris 3, Mizar—2nd.</i>										*June 10	...	42	24.98	...	2	13.5	M		
June 2	...	13	18	42.23	...	34	23	54.3	M	453 <i>8 Bootis η</i>									
443 <i>O. A. S. 12872.</i>										Apl. 15	...	13	48	29.57	...	70	56	59.6	R
May 5	9.2	13	19	40.78	...	116	58	19.1	R	22	...	48	29.64	...	56	59.3	M		
444 <i>Anon.</i>										May 9	...	48	29.64	...	56	58.7	R		
June 4	8.2	13	25	8.12	...	128	10	34.1	M	11	...	48	29.68	...	56	58.3	R		
445 <i>79 Virginis 3</i>										12	...	48	29.68	...	56	59.1	R		
Feb. 18	...	13	28	4.22	...	89	55	49.9	M	June 1	...	48	29.65	...	56	58.3	M		
Mar. 19	...	28	4.39	...	55	49.8	R	6	...	48	29.73	...	56	59.5	M				
May 4	...	28	4.15	...	55	49.0	R	8	...	48	29.67	...	57	0.1	M				
9	...	28	4.23	...	55	50.3	R	13	...	48	29.66	5	56	59.6	M				
19	...	28	4.13	...	55	51.3	M												
23	...	28	4.11	...	55	50.4	M												
24	...	28	4.13	...	55	48.6	M												
30	...	28	4.20	...	55	49.0	M												
31	...	28	4.17	...	55	49.0	M												
June 6	...	28	4.19	...	55	50.0	M												
8	...	28	4.09	...	55	48.5	M												
9	...	28	4.21	...	55	49.0	M												
10	...	28	4.18	3	55	49.6	M												

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Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
454 <i>Anon.</i>									461 16 <i>Bootis α, Arcturus.</i>										
May 24	10.0	13	51	48.17	2	108	32	28.5	M	May 11	...	14	9	44.02	...	70	8	22.9	R
26	10.0		51	48.04	...		32	27.1	M	19	...		9	48.91	...		8	22.8	M
27	10.0		51	48.21	4		32	26.3	M	27	...		9	48.88	...		8	22.2	M
June 3	10.0		51	48.09	...		32	27.8	M	31	...		9	48.89	...		8	22.7	M
455 93 <i>Virginis τ</i>									June 1 ... 9 48.98 ... 8 22.6 M										
May 2	...	13	55	1.85	...	87	49	31.1	R	3	...		9	48.95	...		8	22.1	M
9	...		55	1.87	...		49	30.2	R	4	...		9	44.03	5		8	22.8	M
11	...		55	1.88	...		49	30.7	R	6	...		9	48.94	8		8	23.4	M
12	...		55	1.88	...		49	31.1	R	8	...		9	48.90	...		8	21.8	M
31	...		55	1.98	...		49	30.2	M	13	...		9	48.97	...		8	22.7	M
June 1	...		55	1.81	...		49	28.2	M	21	...		9	48.92	...		8	23.0	M
2	...		55	1.88	...		49	30.5	M	462 <i>Anon.</i>									
8	...		55	2.00	2		49	30.6	M	June 2	9.3	14	11	50.96	4	124	29	15.4	M
10	...		55	1.96	...		49	30.0	M	463 100 <i>Virginis λ</i>									
456 95 <i>Virginis.</i>									June 10 ... 14 12 4.66 | 4 | 102 46 17.6 | M										
Mar. 18	...	13	59	50.43	...	98	41	31.2	R	464 <i>Lacaille 5926.</i>									
19	...		59	50.32	...		41	31.9	R	May 10	...	14	17	1.10	...	119	1	38.8	R
457 <i>Taylor 6570.</i>									465 <i>Taylor 6721.</i>										
June 4	8.8	14	0	26.75	5	140	57	45.1	M	Apl. 29	7.2	14	17	41.71	...	101	4	41.8	M
458 <i>Anon.</i>									466 <i>Anon.</i>										
May 4	0.0	14	5	25.77	...	129	22	0.7	R	Apl. 27	8.5	14	20	19.37	...	127	10	32.0	M
459 98 <i>Virginis κ</i>									467 <i>Anon.</i>										
Apl. 15	...	14	5	57.76	...	99	40	3.1	R	June 3	8.7	14	23	18.16	...	129	47	38.9	M
June 9	...		5	57.82	...		40	1.9	M	468 25 <i>Bootis ρ</i>									
10	...		5	57.72	...		49	2.8	M	May 12	...	14	26	13.63	...	59	3	24.5	R
460 <i>Taylor 6633.</i>									16 ... 26 13.67 ... 3 22.8 M										
May 14	...	14	8	35.27	...	95	20	30.7	M	19	...		26	13.65	...		8	22.3	M
										23	...		26	18.52	...		8	23.6	M
										31	...		26	13.62	4		8	23.7	M

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		h	m.	s.		o.	'	"				h	m.	s.		o.	'	"	
June 2	...	14	26	18.57	...	59	3	24.4	M	474 19 <i>Librae</i> δ , <i>Var.</i> 4.	...	14	54	1.59	...	98	0	6.3	M
4	...	26	18.60	...	3	23.9	M												
6	...	26	18.57	...	3	24.3	M												
17	...	26	18.64	...	3	24.2	M												
21	...	26	13.66	...	3	23.9	M												
23	...	26	18.69	...	3	24.1	M												
25	...	26	18.59	...	3	24.2	M												
30	...	26	18.63	...	3	24.0	M	May 18	...	14	54	1.59	...	98	0	6.3	M		
469 36 <i>Bootis</i> ϵ , <i>Mirac.</i>										475 <i>O. A. N.</i> 15023									
May 11	...	14	39	18.42	...	62	22	34.5	R	June 21	7.4	14	55	47.77	...	27	48	55.9	M
16	...	39	18.50	...	22	34.5	M	476 43 <i>Bootis</i> Ψ	May 16	...	14	58	52.57	...	62	32	33.2	M	
19	...	39	18.57	...	22	34.4	M		26	...	58	52.44	...	32	33.2	M			
24	...	39	18.47	...	22	35.0	M		27	...	58	52.48	...	32	33.8	M			
June 3	...	39	18.50	5	22	36.1	M		June 9	...	58	52.46	4	32	33.8	M			
9	...	39	18.43	3	22	35.6	M		10	...	58	52.43	...	32	33.3	M			
17	...	39	18.51	5	22	34.2	M		17	...	58	52.57	...	32	33.5	M			
21	...	39	18.54	...	22	34.3	M		23	...	58	52.46	...	32	33.1	M			
23	...	39	18.57	5	22	35.2	M		30	...	58	52.52	...	32	33.9	M			
25	...	39	18.62	...	22	35.1	M		July 2	...	58	52.59	...	32	33.6	M			
30	...	39	18.64	5	22	35.7	M		477 <i>W. B. E.</i> <i>XV.</i> 32.										
470 <i>Brisbane</i> 5069.										May 31	8.0	15	3	46.06	...	97	2	53.6	M
May 23	7.9	14	41	46.87	...	131	18	15.6	M	478 27 <i>Librae</i> β									
471 9 <i>Librae</i> α^2										June 4	...	15	10	0.70	...	98	54	4.1	M
Mar. 19	...	14	48	41.25	...	105	30	0.3	R	23	...	10	0.76	5	54	4.4	M		
May 18	...	43	41.33	...	29	59.5	M	25	...	10	0.71	...	54	4.8	M				
26	...	43	41.46	...	29	59.1	M	July 2	...	10	0.74	...	54	4.6	M				
June 13	...	43	41.28	...	29	59.4	M	479 <i>R. P. L.</i> 114.											
21	...	43	41.25	5	30	1.5	M	May 31	...	15	20	11.09	1	2	16	17.4	M		
30	...	43	41.24	5	29	53.3	M	June 2	...	20	10.92	1	16	18.6	M				
472 13 <i>Librae</i> ξ^1										480 <i>W. B. E.</i> <i>XV.</i> 395.									
May 18	...	14	47	19.43	...	101	21	53.1	M	June 3	8.0	15	22	18.31	...	101	16	45.2	M
14	...	47	19.63	...	21	59.0	M	481 <i>Taylor</i> 7240.											
473 7 <i>Ursae Minoris</i> β , <i>Var.</i> 1, <i>Kochab.</i>										June 21	7.0	15	24	47.73	...	130	2	45.9	M
May 19	...	14	51	7.01	...	15	18	46.4	M	482 38 <i>Librae</i> γ									
27	...	51	6.96	3	18	46.9	M	June 10	...	15	28	15.34	...	104	21	14.9	M		
July 7	...	51	7.34	5	18	47.8	M												

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
483 <i>Anon.</i>										491 <i>4 Herculis.</i>									
June 8	7.9	15	29	4.57	...	126	36	36.1	M	June 25	...	15	51	8.07	...	47	3	15.0	M
484 <i>5 Coronae Borealis α, Alpheta.</i>										492 <i>Lalande 29193.</i>									
May 17	...	15	29	10.93	...	62	50	46.1	M	June 18	7.1	15	56	3.67	...	86	58	38.4	M
June 4	...	29	10.96	6	...	50	48.0	M	493 <i>8 Scorpii β¹</i>										
25	...	29	10.96	...	...	50	47.4	M	May 14	...	15	57	52.77	...	109	26	50.2	M	
27	...	29	11.06	...	...	50	46.9	M	17	...	57	52.88	...	26	50.0	M			
July 2	...	29	10.95	...	...	50	47.2	M	June 3	...	57	52.84	...	26	50.6	M			
9	...	29	11.09	...	...	50	46.9	M	July 7	...	57	52.89	...	26	50.2	M			
485 <i>Taylor 7300.</i>										494 <i>R. P. L. 116—sp.</i>									
May 30	7.9	15	32	35.06	...	103	37	46.5	M	Jan. 6	...	16	3	27.81	3	4	19	42.4	R
June 3	7.7	32	34.92	5	...	37	47.7	M	495 <i>Anon.</i>										
486 <i>24 Serpentis α</i>										496 <i>1 Ophiuchi δ</i>									
May 17	...	15	37	51.87	...	83	9	47.4	M	June 27	...	16	7	32.01	...	98	21	28.3	M
20	...	37	51.82	...	...	9	48.5	M	July 7	...	7	31.96	...	21	27.4	M			
27	...	37	51.95	...	...	9	48.9	M	21	...	7	32.00	...	21	28.3	R			
June 2	...	37	51.92	...	...	9	49.1	M	497 <i>O. A. S. 15544.</i>										
27	...	37	51.79	...	...	9	48.1	M	June 1	8.0	16	13	7.27	...	106	46	0.5	M	
July 2	...	37	51.90	...	...	9	50.5	M	498 <i>O. A. S. 15552.</i>										
7	...	37	51.83	...	...	9	48.0	M	June 6	8.7	16	13	34.72	...	107	22	55.6	M	
9	...	37	51.85	...	...	9	48.1	M	499 <i>21 Scorpii α, Antares.</i>										
487 <i>46 Librae θ</i>										499 <i>21 Scorpii α, Antares.</i>									
July 9	...	15	46	25.54	5	106	20	44.8	M	May 17	...	16	21	26.34	...	116	8	26.3	M
488 <i>Lalande 28980.</i>										499 <i>21 Scorpii α, Antares.</i>									
May 30	6.2	15	49	14.56	...	104	26	49.1	M	July 7	...	21	26.31	...	8	27.0	M		
489 <i>O. A. S. 15053.</i>										499 <i>21 Scorpii α, Antares.</i>									
July 7	7.9	15	49	22.54	...	105	27	2.0	M	21	...	21	26.35	...	8	27.2	R		
490 <i>48 Librae.</i>										499 <i>21 Scorpii α, Antares.</i>									
May 14	...	15	50	54.82	4	108	54	9.4	M	29	...	21	26.38	5	8	28.7	R		

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		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
500 <i>40 Herculis</i> ζ										507 <i>55 Ophiuchi</i> α									
June 1	...	16	36	23.03	...	58	9	37.1	M	July 25	...	17	28	53.97	...	77	20	37.8	R
July 21	...		36	23.12	...		9	37.6	R	Aug. 1	...		28	53.90	...		20	35.8	R
28	...		36	23.02	...		9	37.8	R	4	...		28	53.96	5		20	36.5	R
29	...		36	23.15	4		9	39.8	R	5	...		28	53.94	...		20	36.6	R
501 <i>27 Ophiuchi</i> κ										508 <i>58 Ophiuchi.</i>									
July 29	...	16	51	30.90	...	80	25	14.7	R	May 16	...	17	35	38.55	...	111	37	2.9	M
										17	...		35	38.31	...		37	1.0	M
502 <i>29 Ophiuchi.</i>										509 <i>Anon.</i>									
May 16	...	16	54	15.05	...	108	41	31.0	M	Aug 11	10.2	17	39	41.27	4	127	17	35.7	R
503 <i>22 Ursae Minoris</i> ϵ										510 <i>86 Herculis</i> μ									
May 17	...	16	59	22.94	5	17	45	13.7	M	Feb. 3	...	17	41	22.20	...	62	12	6.7	R
<i>22 Ursae Minoris</i> ϵ -s.p.										4	...		41	22.16	...		12	7.2	R
Jan. 8	...	16	59	23.41	5	7	45	13.8	R	July 25	...		41	22.10	...		12	7.4	R
24	...		59	23.35	5		45	15.7	M	Aug. 2	...		41	22.15	...		12	6.9	R
Dec. 16	...		59	23.73	5		45	14.3	M	3	...		41	22.25	...		12	5.5	R
21	...		59	22.91	3		45	9.7	M	4	...		41	22.11	...		12	5.9	R
504 <i>64 Herculis</i> α , <i>Var. 1.</i>										511 <i>Radcliffe</i> 3765.									
July 23	...	17	8	43.13	...	75	27	34.4	M	Aug. 9	8.0	17	43	38.00	4	17	32	6.2	R
29	...		8	43.06	...		27	34.2	R	512 <i>Lacaille</i> 7517.									
Aug. 1	...		8	43.16	...		27	33.9	R	Aug. 2	7.0	17	52	55.92	5	149	10	28.3	R
505 <i>42 Ophiuchi</i> θ										513 <i>Anon.</i>									
July 28	...	17	14	1.60	...	114	52	2.1	M	Aug. 10	10.0	18	4	10.99	4	59	9	50.3	R
25	...		14	1.65	6		52	2.9	R	514 <i>13 Sagittarii</i> μ^1									
29	...		14	1.62	...		52	2.4	R	Feb. 3	...	18	5	59.35	...	111	5	24.2	R
Aug. 1	...		14	1.60	...		52	0.1	R	July 23	...		5	59.34	...		5	24.5	M
2	...		14	1.59	...		52	2.2	R	515 <i>15 Sagittarii</i>									
506 <i>Anon.</i>										Aug. 4	...	18	7	27.53	...	110	45	50.6	R
Aug. 3	...	17	21	15.80	...	130	29	23.9	R										

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		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"							
516 <i>Anon.</i>										524 <i>Anon.</i>															
Aug. 4	...	18	13	19.37	5	127	48	54.5	R	Aug. 10	8.7	18	35	5.39	...	136	44	38.6	R						
517 <i>23 Ursae Minoris δ</i>										525 <i>10 Lyrae β, Var. 1.</i>															
Aug. 2	...	18	14	17.25	3	3	23	87.7	R	Feb. 4	...	18	45	16.73	...	56	47	13.0	R						
22	...	14	16.68	2	23	38.1	R	6	...	45	16.74	...	47	12.6	R	10	...	45	16.72	...	47	10.5	R		
<i>23 Ursae Minoris δ—s.p.</i>										16.80															
Jan. 31	...	18	14	^{16.74} 17.57	2	3	23	40.3	M	11	...	45	16.79	...	47	18.1	R	Aug. 3	...	45	16.78	...	47	12.0	R
Feb. 2	...	14	16.07	2	23	37.6	R	5	...	45	16.75	...	47	13.2	R	8	...	45	16.74	...	47	12.6	R		
4	...	14	16.68	3	23	38.1	R	10	...	45	16.69	...	47	12.6	R	11	...	45	16.69	5	47	12.7	R		
9	...	14	^{17.46} 18.29	2	23	39.4	R	17	...	45	16.66	...	47	12.7	R	14	...	14	16.93	2	23	40.1	R		
518 <i>24 Ursae Minoris—s.p.</i>										526 <i>32 Sagittarii ν¹</i>															
Jan. 23	...	18	18	55.38	1	3	0	53.7	M	Aug. 4	...	18	46	19.14	...	112	54	7.0	R						
519 <i>O. A. S. 18326.</i>										527 <i>37 Sagittarii ζ²</i>															
Aug. 24	8.2	18	23	44.09	5	109	14	45.9	R	May 17	...	18	48	58.30	...	111	15	29.7	M						
520 <i>Taylor 8527.</i>										528 <i>O. A. S. 19032.</i>															
Aug. 3	6.0	18	23	49.21	...	103	29	20.5	R	Aug. 22	9.3	18	57	27.07	...	111	16	27.8	R						
521 <i>O. A. S. 18346.</i>										529 <i>17 Aquilae ζ</i>															
Aug. 4	...	18	24	33.68	5	109	12	49.0	R	Feb. 4	...	18	59	26.04	...	76	19	41.3	R						
522 <i>Anon.</i>										7															
Aug. 11	...	18	28	43.73	...	135	34	15.6	R	59	26.03	...	19	41.1	R	Aug. 9	...	59	25.94	5	19	41.1	R
24	7.5	28	43.88	...	34	18.2	R	17	...	59	25.99	...	19	41.5	R	25	...	59	25.98	...	19	40.8	R		
523 <i>3 Lyrae α, Vega.</i>										530 <i>41 Sagittarii π</i>															
Feb. 3	...	18	32	31.99	...	51	20	11.3	R	May 17	...	19	2	1.84	...	111	13	39.3	M						
4	...	32	32.08	...	20	10.9	R	7	...	2	1.76	...	18	39.5	R	July 12	...	2	1.76	...	18	39.5	R		
6	...	32	32.09	...	20	9.8	R	11	...	32	32.13	...	20	10.1	R	531 <i>Anon.</i>									
7	...	32	32.04	...	20	10.4	R	Aug. 3	...	32	32.07	...	20	8.4	R	Aug. 22	9.6	19	5	1.45	...	126	29	10.8	R
10	...	32	32.13	...	20	7.7	R	5	...	32	32.12	...	20	10.3	R										
11	...	32	32.07	...	20	10.1	R																		

16.74

17.46

32.14
32.08

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Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
532 <i>Anon.</i>										539 <i>56 Sagittarii f</i>										
Aug. 9	9.7	19	9	27.44	...	109	32	11.8	R	Aug. 8	...	19	38	46.46	...	110	4	17.1	R	
										9	...			38	46.45	...		4	15.7	R
533 <i>25 Aquilae ω</i>										540 <i>50 Aquilae γ</i>										
July 12	...	19	11	42.73	...	78	88	15.9	R	Aug. 19	...	19	40	4.65	...	79	42	7.4	R	
Aug. 2	...		11	42.75	...		88	18.5	R	23	...		40	4.61	...		42	6.9	R	
4	...		11	42.88	6		88	12.6	R	24	...		40	4.70	...		42	7.1	R	
25	...		11	42.76	...		88	13.2	R	Sep. 1	...		40	4.69	5		42	5.5	R	
										2	...		40	4.64	...		42	5.9	R	
										6	...		40	4.62	...		42	5.5	R	
534 <i>30 Aquilae δ</i>										541 <i>O. A. S. 19996.</i>										
Feb. 6	...	19	18	56.60	...	87	8	32.2	R	Aug. 22	9.8	19	42	38.11	...	108	11	10.4	R	
Aug. 10	...		18	56.46	5		8	32.4	R											
11	...		18	56.50	...		8	29.9	R											
17	...		18	56.49	...		8	29.8	R											
19	...		18	56.55	...		8	30.5	R											
22	...		18	56.48	...		8	32.4	R											
23	...		18	56.54	...		8	32.8	R											
25	...		18	56.49	...		8	31.4	R											
Sep. 6	...		18	56.46	...		8	31.2	R											
535 <i>Anon.</i>										542 <i>53 Aquilae α, Altair.</i>										
Aug. 24	9.5	19	19	33.90	...	123	37	47.6	R	Feb. 6	...	19	44	26.29	...	81	28	22.6	R	
										7	...		44	26.35	...		28	22.9	R	
										10	...		44	26.38	...		28	20.7	R	
										Aug. 24	...		44	26.27	...		28	23.6	R	
										Sep. 2	...		44	26.25	...		28	23.0	R	
536 <i>Anon.</i>										543 <i>Anon.</i>										
Aug. 24	9.2	19	25	34.19	...	127	48	37.9	R	Sep. 6	7.0	¹⁹ 11	44	27.46	...	122	18	24.6	R	
537 <i>52 Sagittarii h^a</i>										544 <i>O. A. S. 20055.</i>										
Aug. 8	...	19	28	47.60	5	115	10	5.4	R	Aug. 11	9.3	¹⁹ 11	46	39.97	...	107	44	54.3	R	
22	...		28	47.52	...		10	5.1	R											
538 <i>Anon.</i>										545 <i>60 Aquilae β</i>										
Sep. 6	8.0	19	31	23.24	5	127	41	42.0	R	Aug. 2	...	19	48	55.62	...	88	54	57.4	R	
										9	...		48	55.51	...		55	0.8	R	
										19	...		48	55.53	...		54	58.9	R	
										22	...		48	55.49	...		54	58.0	R	
										23	...		48	55.56	...		54	59.1	R	
										Sep. 1	...		48	55.58	...		54	57.8	R	
										2	...		48	55.67	...		54	57.9	R	
										14	...		48	55.54	...		54	57.9	R	

26.35

19

19

Separate Results of Madras Meridian Circle Observations in 1870.

Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
546 <i>Anon.</i>										555 <i>11 Capricorni ρ</i>										
Aug. 24	10.0	19	54	9.85	...	107	11	27.0	R	Aug. 9	...	20	21	26.46	...	108	14	28.8	R	
										10.	...	21	26.47	...		14	29.4	R		
										22	...	21	26.49	...		14	28.1	R		
547 <i>λ Ursae Minoris—s.p.</i>										Sep. 8	...	21	26.53	...		14	28.9	R		
Feb. 14	...	19	54	17.57	2	1	4	55.5	R	5	...	21	26.43	...		14	28.2	R		
Mar. 3	...	54	16.37	7		4	54.2	R	6	...	21	26.47	...		14	28.4	R			
15	...	54	16.30	3		4	57.5	R	14	...	21	26.41	...		14	29.5	R			
548 <i>Anon.</i>										16	...	21	26.51	...		14	28.5	M		
Sep. 6	8.8	19	56	7.30	...	151	50	40.0	R	20	...	21	26.73	...		14	28.2	M		
549 <i>Anon.</i>										22	...	21	26.60	...		14	28.8	M		
Sep. 5	...	19	59	39.91	4	129	10	24.7	R	30	...	21	26.44	...		14	28.4	M		
550 <i>Lacaille 8370.</i>										556 <i>24 Cephei, Heu—s.p.</i>										
Aug. 24	...	20	7	29.91	5	152	18	13.2	R	Mar. 8	9.2	20	23	^{42.19} 35.14	1	1	15	50.5	R	
551 <i>6 Capricorni α^a</i>										11	...	23	^{44.19} 34.76	1		15	57.1	R	42.19 41.86	
Aug. 9	...	20	10	50.23	...	102	56	45.6	R	557 <i>Anon.</i>										
11	...	10	50.35	5		56	45.0	R	Sep. 7	8.2	20	25	49.32	5	150	25	22.5	R		
Sep. 14	...	10	50.27	...		56	45.7	R	558 <i>Anon.</i>											
16	...	10	50.24	...		56	45.6	M	Sep. 8	...	20	29	5.40	4	121	5	18.2	R		
552 <i>7 Capricorni σ</i>										559 <i>14 Capricorni τ^a</i>										
Sep. 5	...	20	11	53.37	...	109	31	20.6	R	Sep. 21	6.6	20	32	0.05	...	105	24	32.1	M	
6	...	11	53.26	...		31	19.9	R	560 <i>Taylor 9518.</i>											
553 <i>Lalande 39125.</i>										Sep. 24	7.7	20	32	16.62	...	106	25	50.3	M	
Sep. 21	8.0	20	15	51.54	5	106	12	12.5	M	561 <i>Anon.</i>										
554 <i>Anon.</i>										Sep. 26	8.9	20	35	3.62	...	123	12	29.9	M	
Oct. 7	...	20	17	13.42	...	121	10	41.8	R	562 <i>50 Cygni α, Deneb.</i>										
										Sep. 3	...	20	36	59.90	...	45	10	58.7	R	
										5	...	36	59.79	...		11	1.0	R		
										16	...	36	59.89	...		11	0.8	M		
										20	...	36	59.94	...		10	59.6	M		
										22	...	36	59.92	...		10	58.4	M		

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Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1870.			No. of Wires.	Mean Polar Distance 1870.			Observer.	
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"		
563 <i>Anon.</i>										573 <i>64 Cygni 3</i>										
Sep. 7	8.0	20	37	0.64	5	148	22	19.0	R	Sep. 1	...	21	7	24.10	...	60	18	17.0	R	
										Sep. 8	7	24.16	18	17.7	R
564 <i>W. B. N. XX. 935</i>										Sep. 20	7	28.92	18	17.9	M
Sep. 27	8.6	20	37	4.00	5	73	21	49.1	M	Sep. 21	7	24.17	18	17.9	M
565 <i>Anon.</i>										Sep. 22	7	28.99	18	17.6	M
Sep. 26	8.9	20	48	4.72	4	148	59	56.8	M	Sep. 24	7	24.15	18	19.2	M
566 <i>32 Vulpeculae.</i>										Sep. 26	7	24.21	18	20.1	M
Sep. 3	...	20	49	1.07	...	62	26	8.7	R	Sep. 27	7	24.19	18	19.8	M
7	...	49	1.20	...	...	26	9.8	R	574 <i>Lacaille 8748.</i>										
20	...	49	1.06	...	...	26	8.2	M	Aug. 12	...	21	10	14.09	...	145	6	10.6	R	
22	...	49	1.12	...	...	26	7.7	M	575 <i>32 Capricorni</i>										
24	...	49	1.13	...	...	26	9.0	M	Sep. 6	...	21	15	0.08	...	107	23	10.4	R	
27	...	49	1.24	...	...	26	9.9	M	Sep. 7	...	...	15	0.18	...	...	23	11.2	R	
567 <i>Lacaille 8630.</i>										576 <i>Anon.</i>										
Sep. 21	7.1	20	51	48.91	...	126	37	50.2	M	Sep. 27	8.0	21	21	33.02	...	128	54	48.6	M	
568 <i>23 Capricorni θ</i>										577 <i>22 Aquarii β</i>										
Sep. 6	...	20	58	38.09	...	107	44	51.4	R	Aug. 12	...	21	24	42.75	...	96	8	29.9	R	
7	...	58	38.25	...	...	44	52.2	R	Sep. 24	...	...	24	42.77	...	...	8	31.8	R	
569 <i>Anon.</i>										Sep. 29	...	...	24	42.64	6	...	8	31.0	R
Aug. 12	8.8	21	0	55.03	...	120	3	20.4	R	Sep. 21	...	...	24	42.74	...	...	8	30.5	M
570 <i>61 Cygni—1st.</i>										Sep. 24	...	...	24	42.81	...	...	8	30.4	M
Aug. 24	...	21	1	4.24	4	51	53	20.6	R	Sep. 26	...	...	24	42.78	...	...	8	31.2	M
571 <i>61 Cygni—2nd.</i>										Sep. 30	...	...	24	42.81	...	...	8	30.4	M
Aug. 24	...	21	1	5.68	4	51	58	27.8	R	Oct. 1	...	...	24	42.78	...	...	8	31.1	R
572 <i>Anon.</i>										Sep. 5	...	...	24	42.77	...	...	8	30.9	R
Aug. 9	9.6	21	1	34.16	...	120	1	12.5	R	Sep. 17	...	...	24	42.80	...	...	8	29.8	M
573 <i>Anon.</i>										579 <i>40 Capricorni γ</i>										
Aug. 25	...	21	30	5.81	...	127	44	48.4	R	Aug. 11	...	21	32	58.10	...	107	14	54.4	R	
Sep. 20	7.7	...	80	5.97	...	44	48.0	M												

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		h.	m.	s.		.	'	"				h.	m.	s.		.	'	"	
580 <i>Anon.</i>									586 <i>38 Aquarii e²</i>										
Sep. 27	8.9	21	35	4.73	...	133	58	51.6	M	Sep. 7	...	22	3	40.42	...	102	12	13.8	R
581 <i>8 Pegasi a</i>									587 <i>43 Aquarii θ</i>										
Aug. 12	...	21	37	48.08	...	80	43	11.0	R	Sep. 26	...	22	9	58.84	...	98	25	48.5	M
29	...		37	48.05	...		43	11.2	R	27	...		9	58.25	...		25	48.5	M
Sep. 21	...		37	48.01	...		43	10.1	M	Oct. 6	...		9	58.27	5		25	48.8	R
24	...		37	47.98	...		43	10.9	M	15	...		9	58.31	5		25	48.5	R
26	...		37	47.88	...		43	12.9	M	26	...		9	58.45	...		25	48.0	M
30	...		37	47.92	...		43	14.7	M										
Oct. 1	...		37	47.97	...		43	12.2	R	588 <i>Anon.</i>									
582 <i>49 Capricorni δ</i>									589 <i>Anon.</i>										
Aug. 11	...	21	39	51.78	...	106	43	57.4	R	Oct. 29	7.9	22	12	24.94	...	129	24	56.5	M
Oct. 4	...		39	51.76	...		42	57.8	R	590 <i>Anon.</i>									
5	...		39	51.81	...		42	58.1	R	Oct. 1	9.5	22	13	33.08	4	146	26	49.0	R
583 <i>16 Pegasi.</i>									591 <i>Anon.</i>										
Aug. 12	...	21	47	8.88	...	64	41	8.5	R	3	9.5		13	32.99	..		26	49.0	R
Sep. 7	...		47	8.82	...		41	9.2	R	592 <i>55 Aquarii 3¹</i>									
10	...		47	8.78	...		41	10.2	R	Sep. 6	...	22	22	8.16	...	90	41	1.6	R
21	...		47	8.90	...		41	8.5	M	593 <i>R. P. L. 150—s.p.</i>									
Oct. 4	...		47	8.76	...		41	9.7	R	Feb. 17	...	22	23	16.44	3	4	32	51.5	M
5	...		47	8.83	...		41	10.0	R	23	...		23	16.37	3		32	55.2	M
6	...		47	8.82	...		41	9.4	R	Mar. 29	...		23	16.82	1		32	53.3	M
22	...		47	8.86	...		41	10.2	R	Apl. 4	...		23	16.21	3		32	50.2	M
584 <i>Lalande 42883.</i>									594 <i>57 Aquarii σ</i>										
Sep. 22	8.0	21	52	55.37	...	60	47	37.2	M	Aug. 11	...	22	23	45.85	...	101	20	38.2	R
24	7.7		52	55.07	...		47	37.6	M	595 <i>Anon.</i>									
26	7.8		52	55.47	...		47	39.0	M	Oct. 6	8.0	22	24	3.43	...	180	38	41.9	R
27	7.0		52	55.60	...		47	38.8	M										
Oct. 1	7.2		52	55.52	...		47	37.7	R										
585 <i>34 Aquarii a</i>																			
Sep. 5	...	21	59	6.41	...	90	57	1.9	R										
10	...		59	6.35	...		57	3.4	R										
Oct. 1	...		59	6.37	...		57	2.4	R										
6	...		59	6.34	...		57	2.7	R										
14	...		59	6.29	...		57	2.1	R										
15	...		59	6.22	...		57	3.3	R										
17	...		59	6.15	...		57	2.0	M										
24	...		59	6.25	...		57	3.4	M										

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		h.	m.	s.		.	'	"				h.	m.	s.		.	'	"	
615 <i>6 Piscium γ</i>										Oct. 29	...	23	38	15.82	...	85	4	42.0	M
Oct. 10	...	23	10	25.61	...	87	25	42.3	R	Nov. 2	...	33	15.77	...	4	41.8	R		
20	...	10	25.55	...	...	25	40.4	M	7	...	33	15.68	...	4	41.7	R	
29	...	10	25.64	...	...	25	40.7	M	17	...	33	15.77	5	4	41.9	M	
31	...	10	25.65	25	40.8	M	623 <i>Taylor 10848.</i>										
Nov. 16	...	10	25.48	25	39.4	R	Aug. 12	...	23	34	25.05	...	102	24	4.5	R	
616 <i>93 Aquarii ψ^a</i>										Oct. 6	...	34	25.00	...	24	5.5	R		
Nov. 3	...	23	11	8.86	...	99	53	34.8	R	7	...	34	25.06	5	24	5.9	R		
617 <i>T Cephei Var. 5.</i>										27	6.0	34	25.01	...	24	6.0	M		
Sep. 10	8.8	23	14	43.70	...	34	35	53.0	R	31	6.4	34	24.97	...	24	5.6	M		
618 <i>Anon.</i>										624 <i>18 Piscium λ</i>									
Nov. 16	9.8	23	18	34.31	...	131	6	32.8	R	Sep. 22	...	23	35	24.61	4	88	56	7.1	M
619 <i>8 Piscium κ</i>										625 <i>δ Sculptoris.</i>									
Oct. 20	...	23	20	15.96	...	89	27	21.8	M	Oct. 22	...	23	42	9.07	5	118	50	59.2	M
22	...	20	16.10	5	27	22.2	M	28	...	42	9.10	...	50	58.7	M				
24	...	20	16.12	...	27	22.3	M	Nov. 2	...	42	9.05	...	50	58.1	R				
26	...	20	16.02	...	27	22.3	M	3	...	42	9.07	...	50	58.7	R				
27	...	20	16.02	...	27	22.0	M	5	...	42	8.98	...	50	59.9	R				
28	...	20	16.16	...	27	22.6	M	12	...	42	8.99	...	50	57.6	M				
29	...	20	15.97	...	27	22.5	M	626 <i>Anon.</i>											
31	...	20	16.01	...	27	22.2	M	Oct. 1	9.8	23	43	15.92	...	150	41	40.2	R		
Nov. 5	...	20	16.08	...	27	23.4	R	627 <i>28 Piscium ω</i>											
620 <i>R. P. L. 158.—s.p.</i>										Oct. 3	...	23	52	38.11	...	83	51	23.6	R
Mar. 23	...	23	27	51.41	2	3	24	36.0	M	7	...	52	38.23	...	51	23.7	R		
Apl. 18	...	27	50.74	3	24	35.7	M	26	...	52	38.17	...	51	23.5	M				
27	...	27	48.71	3	24	37.1	M	27	...	52	38.11	...	51	23.5	M				
30	...	27	49.40	3	24	37.3	M	28	...	52	38.14	...	51	24.3	M				
621 <i>Anon.</i>										Nov. 2	...	52	38.16	...	51	23.0	R		
Oct. 26	8.5	23	30	1.53	...	127	31	10.8	M	5	...	52	38.12	...	51	25.2	R		
622 <i>17 Piscium ι</i>										7	...	52	38.22	...	51	23.0	R		
Oct. 8	...	23	33	15.78	...	85	4	40.2	R	12	...	52	38.17	...	51	23.6	M		
22	...	33	15.79	...	4	42.0	M	14	...	52	38.09	...	51	23.7	R				
28	...	33	15.76	...	4	42.3	M	628 <i>30 Piscium.</i>											
623 <i>30 Piscium.</i>										Nov. 3	...	23	55	17.57	...	96	44	12.7	R