SEPARATE RESULTS

OF

OBSERVATIONS

OF THE FIXED STARS

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1886

Separate Results of Madras Meridian Circle Observations in 1886.

Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ′ ″	Observer.
1		43 *Andromedæ* β			
Dec. 11	...	1 3 20·99	...	54 59 3·7	R
2		1 *Ursæ Minoris a, Polaris.*			
Dec. 11	...	1 16 55·64	3	1 17 58·3	R
24	...	16 58·16	2	17 56·4	R
		1 *Ursæ Minoris a, Polaris—s.p.*			
June 11	...	1 16 58·29	3	1 17 59·1	M
3		110 *Piscium* o			
Jan. 1	...	1 39 22·52	...	81 24 59·2	M
Dec. 11	...	39 22·42	...	24 59·2	R
24	...	39 22·44	...	24 58·6	R
28	...	39 22·31	...	24 55·9	M
4		43 *Arietis* σ			
Jan. 15	...	2 45 11·92	...	75 23 14·5	R
Dec. 11	...	45 11·92	...	23 18·0	R
24	...	45 11·88	...	23 16·7	R
28	...	45 12·01	...	23 16·2	M
5		1 *Tauri* o, *Var.* 5.			
Jan. 1	...	3 18 40·62	...	81 22 24·5	M
7	...	18 40·78	...	22 22·1	R
15	...	18 40·77	...	22 21·6	R
19	...	18 40·74	...	22 22·8	R
Dec. 24	...	18 40·74	...	22 25·3	R
28	...	18 40·73	...	22 22·4	M
6		18 *Eridani* ϵ			
Jan. 1	...	3 27 33·58	...	99 50 40·1	M
7	...	27 33·54	...	50 41·1	R
15	...	27 33·48	...	50 40·9	R
19	...	27 33·50	...	50 38·3	R
29	...	27 33·60	...	50 43·1	R
7		37 *Tauri* A^1.			
Jan. 7	...	3 57 57·28	...	68 13 49·1	R
26	...	57 57·31	...	13 51·2	M
27	...	57 57·37	...	13 53·5	M
8		54 *Tauri* γ			
Jan. 19	...	4 13 18·41	...	74 38 54·4	M
26	...	13 18·34	...	38 56·8	M
27	...	13 18·23	...	38 56·2	M
29	...	13 18·35	...	38 56·2	R
9		57 *Eridani* μ			
Jan. 26	...	4 39 48·11	...	93 27 52·2	M
27	...	39 48·17	...	27 52·5	M
29	...	39 48·08	...	27 53·3	R
Feb. 6	...	39 48·23	...	27 54·4	M
13	...	39 48·18	...	27 51·3	M
15	...	39 48·10	...	27 51·1	M
10		*R. P. L.* 37.			
Jan. 1	...	4 51 28·18	3	4 11 31·4	M
29	...	51 28·07	7	11 32·9	R
30	...	51 28·55	7	11 31·7	R
Feb. 1	...	51 28·25	7	11 30·4	R
Dec. 28	...	51 29·00	3	11 33·2	M
11		19 *Orionis* β, *Rigel.*			
Jan. 24	...	5 9 3·48	...	98 20 2·2	R
30	...	9 3·54	...	20 5·0	R
Feb. 1	...	9 3·57	...	20 1·7	R
12		*R. P. L.* 40.			
Jan. 29	...	5 25 32·63	7	4 51 51·5	R
30	...	25 33·01	7	51 50·2	R
Feb. 1	...	25 31·75	7	51 50·0	R

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13		34 *Orionis* δ, *Var.* 1.			
Jan. 24	...	5 26 11·00	...	90 23 2·0	R
Feb. 6	...	26 10·86	...	23 4·5	M
13	...	26 10·93	...	23 1·0	M
15	...	26 10·95	...	23 2·2	M
17	...	26 10·98	...	23 1·6	M
20	...	26 10·99	...	23 0·6	M
22	...	26 11·05	...	23 1·4	M
25	...	26 11·04	...	23 0·6	M
14		46 *Orionis* ε			
Jan. 24	...	5 30 25·66	...	91 16 31·7	R
Feb. 3	...	30 25·66	...	16 33·9	R
6	...	30 25·67	...	16 34·4	M
13	...	30 25·65	...	16 32·8	M
15	...	30 25·81	...	16 31·9	M
17	...	30 25·68	...	16 33·1	M
20	...	30 25·73	...	16 31·2	M
22	...	30 25·69	...	16 31·0	M
25	...	30 25·63	...	16 31·2	M
15		53 *Orionis* κ			
Jan. 30	...	5 42 20·98	...	99 42 40·4	R
Feb. 1	...	42 21·00	...	42 38·7	R
3	...	42 20·93	...	42 41·0	R
17	...	42 20·90	...	42 39·7	M
20	...	42 20·87	...	42 38·4	M
22	...	42 20·85	...	42 36·7	M
25	...	42 20·92	...	42 38·2	M
16		7 *Geminorum* η			
Feb. 1	...	6 7 59·66	...	67 27 38·3	R
17		51 *Cephei* (*Hev.*).			
Jan. 15	...	6 46 45·06	3	2 46 38·8	R
24	...	46 45·94	7	46 38·4	R
26	...	46 47·15	7	46 39·9	M
27	...	46 46·86	7	46 38·6	M
29	...	46 45·07	7	46 38·9	R
30	...	46 46·83	7	46 37·1	R
Feb. 6	...	6 46 48·96	7	2 46 42·6	M
13	...	46 45·88	7	46 38·9	M
15	...	46 46·87	7	46 37·7	M
17	...	46 46·14	7	46 38·4	M
22	...	46 44·42	7	46 38·8	M
		51 *Cephei* (*Hev.*)—*s.p.*			
Aug. 4	...	6 46 46·33	3	2 46 35·8	R
Sep. 4	...	46 45·84	1	46 27·7	M
25	...	46 46·54	3	46 38·2	M
18		3 *Canis Minoris* β			
Jan. 30	...	7 20 58·06	...	81 28 55·5	R
19		17 *Cancri* β			
Apl. 2	...	8 10 19·89	...	80 27 47·0	R
5	...	10 19·99	...	27 47·4	R
7	...	10 19·94	...	27 46·9	R
20		43 *Cancri* γ			
Apl. 2	...	8 36 41·23	...	68 7 19·2	R
5	...	36 41·21	...	7 20·4	R
7	...	36 41·26	...	7 20·2	R
9	...	36 41·22	...	7 21·6	R
12	...	36 41·27	...	7 19·8	R
21		65 *Cancri* α			
Apl. 2	...	8 52 15·11	...	77 42 3·6	R
7	...	52 15·05	...	42 4·9	R
9	...	52 15·08	...	42 4·9	R
12	...	52 15·05	...	42 4·7	R
22		76 *Cancri* κ			
Apl. 5	...	9 1 34·29	...	78 52 24·4	R
9	...	1 34·34	...	52 23·8	R
12	...	1 34·31	...	52 24·8	R
14	...	1 34·32	...	52 26·0	R
16	...	1 34·35	...	52 22·1	R

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Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ′ ″	Observer.
23		*Lalande* 18162.			
Apl. 5	8·5	9 6 46·14	...	78 51 48·0	R
7	8·5	6 46·19	...	51 46·6	R
9	8·5	6 46·25	...	51 47·6	R
12	8·5	6 46·32	...	51 48·2	R
14	8·5	6 46·40	...	51 47·1	R
24		14 *Leonis* o			
Apl. 14	...	9 35 3·89	...	79 35 20·5	R
16	...	35 3·94	...	35 19·8	R
19	...	35 3·91	...	35 20·1	R
21	...	35 3·94	...	35 22·2	R
24	...	35 3·96	...	35 22·0	R
25		24 *Leonis* μ			
Apl. 14	...	9 46 16·69	...	63 27 22·6	R
16	...	46 16·61	...	27 22·2	R
19	...	46 16·67	...	27 22·4	R
21	...	46 16·66	...	27 23·7	R
24	...	46 16·72	...	27 23·2	R
26		*R. P. L.* 72.			
Apl. 2	...	10 12 55·34	3	5 10 9·2	R
9	...	12 54·68	3	10 9·4	R
27		42 *Hydræ* μ			
Apl. 21	...	10 20 34·64	...	106 15 16·5	R
24	...	20 34·55	...	15 16·9	R
27	...	20 34·53	...	15 16·6	R
29	...	20 34·53	...	15 17·0	R
May 1	...	20 34·57	...	15 15·5	R
4	...	20 34·50	..	15 15·1	R
6	...	20 34·58	...	15 16·2	R
8	...	20 34·60	...	15 15·5	R
10	...	20 34·69	...	15 16·5	R
28		58 *Leonis d.*			
Apl. 19	...	10 54 40·37	...	85 46 12·7	R
27	...	54 40·41	...	46 13·8	R
29	...	54 40·40	...	46 14·0	R
May 1	...	10 54 40·38	...	85 46 13·5	R
4	...	54 40·49	...	46 13·1	R
6	...	54 40·34	...	46 13·3	R
8	...	54 40·32	...	46 12·2	R
10	...	54 40·32	...	46 13·5	R
29		84 *Leonis* τ			
Apl. 27	...	11 22 4·48	...	86 30 56·4	R
May 1	...	22 4·47	...	30 56·8	R
30		*Anon.*			
Apl. 7	9·5	11 38 38·70	...	80 56 10·5	R
12	9·7	38 38·60	...	56 11·5	R
16	9·5	38 38·55	...	56 11·0	R
21	9·5	38 38·66	...	56 10·0	R
27	9·5	38 38·83	...	56 8·8	R
31		*Anon.*			
Apl. 9	9·3	11 41 17·35	...	81 21 9·3	R
14	9·3	41 17·47	...	21 9·9	R
19	9·3	41 17·44	...	21 7·9	R
24	9·3	41 17·54	...	21 9·7	R
29	9·3	41 17·29	...	21 9·3	R
32		*Anon.*			
Apl. 5	9·0	11 41 42·62	...	81 0 52·6	R
May 1	9·0	41 42·60	4	0 51·2	R
4	9·0	41 42·73	...	0 50·1	R
6	9·0	41 42·78	...	0 51·4	R
10	9·0	41 42·72	...	0 50·2	R
33		8 *Virginis* π			
Apl. 29	...	11 55 1·89	...	82 44 59·9	R
May 4	...	55 1·85	...	45 0·2	R
6	...	55 1·93	...	44 59·9	R
8	...	55 1·93	...	44 59·3	R
10	...	55 1·84	...	44 58·5	R

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34		*Lalande* 22762.			
Apl. 5	8·7	12 2 12·97	...	83 19 43·6	R
7	8·7	2 13·04	...	19 44·1	R
9	8·7	2 12·83	...	19 44·2	R
12	8·7	2 12·90	...	19 43·8	R
14	8·7	2 12·96	...	19 43·6	R
35		*R. P. L.* 92.			
Apl. 19	...	12 13 29·79	3	2 55 49·5	R
29	...	13 29·71	3	55 52·4	R
May 10	...	13 28·35	3	55 50·5	R
June 11	...	13 30·70	3	55 49·3	M
36		7 *Corvi* δ^2			
June 7	...	12 23 58·00	...	105 52 50·4	M
11	...	23 57·95	...	52 48·8	M
37		29 *Virginis* γ^1			
June 7	...	12 35 53·00	...	90 49 23·7	M
11	...	35 53·05	...	49 23·5	M
38		43 *Virginis* δ			
June 7	...	12 49 51·68	...	85 58 58·9	M
11	...	49 51·68	...	58 57·3	M
18	...	49 51·58	...	58 57·0	M
39		47 *Virginis* ϵ, *Vindemiatrix.*			
June 18	...	12 56 30·17	...	78 25 40·5	M
40		4 *Bootis* τ			
June 18	...	13 41 50·73	...	71 58 30·9	M
22	...	41 50·87	...	58 29·9	M
25	...	41 50·80	...	58 27·7	M
41		93 *Virginis* τ			
June 25	...	13 55 50·69	...	87 54 10·7	M
42		22 *Bootis f.*			
June 22	...	14 21 9·23	...	70 15 38·4	M
25	...	21 9·21	...	15 38·1	M
43		25 *Bootis* ρ			
June 22	...	14 26 54·88	...	59 7 40·0	M
44		*R. P. L.* 110.—*s.p.*			
Jan. 1	...	14 52 17·39	3	3 34 46·7	M
Dec. 11	...	52 16·87	3	34 45·6	R
24	...	52 18·94	3	34 45·5	R
28	...	52 17·84	3	34 48·8	M
45		72 *Ophiuchi.*			
Aug. 4	...	18 1 56·68	...	80 27 7·4	R
46		23 *Ursæ Minoris* δ			
Aug. 4	...	18 9 5·05	3	3 23 24·1	R
		23 *Ursæ Minoris* δ—*s.p.*			
Jan. 15	...	18 9 4·15	3	3 23 22·1	R
24	...	9 4·65	7	23 21·8	R
26	...	9 6·14	7	23 20·5	M
27	...	9 5·56	7	23 21·7	M
29	...	9 4·67	7	23 20·9	R
30	...	9 5·10	7	23 20·0	R
47		58 *Serpentis* η			
Sep. 4	...	18 15 24·68	...	92 55 39·3	M
48		22 *Sagittarii* λ			
Aug. 4	...	18 20 56·07	...	115 28 59·5	R
Sep. 4	...	20 56·06	...	28 58·3	M
49		13 *Aquilæ* ϵ			
Aug. 4	...	18 54 26·84	...	75 5 11·0	R
Sep. 25	...	54 26·92	...	5 12·4	M

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50		52 *Sagittarii* h^2.			
Sep. 1	...	19 29 46·23	...	105 8 2·3	M
11	...	29 46·12	...	8 1·9	M
51		λ *Ursæ Minoris.*			
Sep. 4	...	19 37 50·88	3	1 2 32·0	M
25	...	37 51·15	3	2 33·3	M
		λ *Ursæ Minoris—s.p.*			
Feb. 1	...	19 37 49·92	7	1 2 31·4	B
6	...	37 53·56	7	2 25·7	M
13	...	37 50·53	7	2 30·2	M
15	...	37 50·96	7	2 31·8	M
17	...	37 50·75	7	2 31·7	M
22	...	37 49·77	7	2 31·5	M
52		53 *Aquilæ a, Altair.*			
Sep. 1	...	19 45 13·14	...	81 25 53·2	M
11	...	45 13·23	...	25 54·5	M
15	...	45 13·18	...	25 55·8	M
18	...	45 13·36	...	25 55·2	M
22	...	45 13·12	...	25 54·0	M

Number and Date.	Magnitude.	Mean Right Ascension 1886. h. m. s.	No. of Wires.	Mean Polar Distance 1886. ° ′ ″	Observer.
53		65 *Aquilæ* θ			
Sep. 1	...	20 5 25·34	...	91 9 31·1	M
4	...	5 25·29	...	9 30·8	M
11	...	5 25·38	...	9 30·1	M
15	...	5 25·40	...	9 31·4	M
18	...	5 25·35	...	9 31·8	M
22	...	5 25·38	...	9 31·6	M
25	...	5 25·42	...	9 33·1	M
54		2 *Delphini* ϵ			
Sep. 15	...	20 27 45·97	...	79 5 0·6	M
18	...	27 45·82	...	5 0·2	M
22	...	27 46·04	...	5 0·9	M
25	...	27 45·79	...	4 59·8	M
55		*R. P. L.* 155.—*s.p.*			
Apl. 2	...	23 24 19·72	3	4 12 40·6	R
9	...	24 19·10	3	12 39·3	R
19	...	24 18·47	3	12 39·4	R
29	...	24 19·48	3	12 37·8	R
May 10	...	24 17·86	3	12 34·9	R