

---

SEPARATE RESULTS  
OF  
OBSERVATIONS  
OF THE FIXED STARS  
MADE WITH THE  
MADRAS MERIDIAN CIRCLE  
IN THE YEAR  
1887

---

*Separate Results of Madras Meridian Circle Observations in 1887.*

Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.
		h.	m.	s.		°	'	"				°	'	"		°	'	"	
<b>1</b> <i>21 Andromedæ α, Alpherat.</i>										<b>9</b> <i>57 Eridani μ</i>									
Nov. 8	...	0	2	32.81	...	61	31	59.3	R	Jan. 11	...	4	39	51.12	...	93	27	46.3	M
17	...	2	32	89	...	32	1	5	R	25	...	39	51	28	...	27	44	9	R
21	...	2	32	82	...	32	1	2	R	28	...	39	51	07	...	27	43	7	M
26	...	2	32	74	...	32	1	8	R										
<b>2</b> <i>8 Ceti ε</i>										<b>10</b> <i>R. P. L. 37.</i>									
Nov. 7	...	0	18	40.12	...	99	27	0.5	R	Jan. 7	...	4	51	49.55	3	4	11	31.8	M
17	...	18	40	05	...	27	0	5	R	28	...	51	50	81	3	11	27	5	M
26	...	18	40	16	...	26	59	9	R										
<b>3</b> <i>63 Piscium δ</i>										<b>11</b> <i>19 Orionis β, Rigel.</i>									
Nov. 21	...	0	42	49.09	...	83	1	47.1	R	Feb. 18	...	5	9	6.44	...	98	19	57.3	R
26	...	42	49	14	...	1	47	1	R										
<b>4</b> <i>43 Arietis σ</i>										<b>12</b> <i>R. P. L. 40.</i>									
Jan. 7	...	2	45	15.29	...	75	23	1.8	M	Feb. 18	...	5	25	50.77	3	4	51	46.7	R
11	...	45	15	24	...	23	1	3	M										
<b>5</b> <i>1 Tauri α, Var. 5.</i>										<b>13</b> <i>34 Orionis δ, Var. 1.</i>									
Jan. 7	...	3	18	43.87	...	81	22	11.3	M	Feb. 22	...	5	26	14.08	...	90	22	59.1	M
14	...	18	43	98	...	22	8	7	R										
18	...	18	43	97	...	22	9	6	M										
21	...	18	43	99	...	22	9	6	M										
<b>6</b> <i>18 Eridani ε</i>										<b>14</b> <i>11 Leporis α</i>									
Jan. 7	...	3	27	36.38	...	99	50	27.8	M	Jan. 25	...	5	27	44.73	...	107	54	12.7	R
18	...	27	36	41	...	50	29	3	M	28	...	27	44	85	...	54	12	7	M
21	...	27	36	32	...	50	29	6	M										
<b>7</b> <i>73 Tauri A<sup>1</sup>.</i>										<b>15</b> <i>46 Orionis ε</i>									
Jan. 14	...	3	58	0.86	...	63	13	39.8	R	Feb. 22	...	5	30	23.74	...	91	16	27.8	M
<b>8</b> <i>54 Tauri γ</i>										<b>16</b> <i>53 Orionis κ</i>									
Jan. 11	...	4	13	21.72	...	74	38	46.5	M	Feb. 18	...	5	42	23.80	...	99	42	36.7	R
14	...	13	21	75	...	38	45	0	R	22	...	42	23	71	...	42	35	8	M
18	...	13	21	75	...	38	47	0	M	25	...	42	23	78	...	42	35	2	R
21	...	13	21	82	...	38	45	9	M										
25	...	13	21	63	...	38	44	9	R										
28	...	13	21	72	...	38	46	2	M										
<b>9</b> <i>9 Canis Majoris α, Sirius.</i>										<b>17</b> <i>31 Geminorum ξ</i>									
Mar. 1	...	6	40	10.02	...	106	33	41.5	R	Feb. 18	...	6	38	56.85	...	76	59	0.7	R
										25	...	38	56	96	...	58	58	4	R
										Mar. 4	...	38	56	30	...	59	1	7	M

## Separate Results of Madras Meridian Circle Observations in 1887.

Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.
		h.	m.	s.		°	'	"				h.	m.	s.		°	'	"	
<b>19</b> 51 <i>Cephei</i> ( <i>Hev.</i> ).										<b>28</b> 24 <i>Leonis</i> $\mu$									
Feb. 25	...	6	47	16.71	3	2	46	42.6	R	Apl. 26	...	9	46	20.10	...	63	27	37.7	R
Mar. 4	...		47	16.02	3		46	42.7	M	29	...		46	20.16	...		27	39.9	M
Apl. 1	...		47	16.81	3		46	47.4	M										
<b>20</b> 14 <i>Canis Majoris</i> $\theta$										<b>29</b> <i>R. P. L.</i> 72.									
Mar. 1	...	6	48	56.42	...	101	53	51.1	R	Apl. 26	...	10	18	6.17	3	5	10	27.5	R
<b>21</b> <i>W. B. E.</i> VII. 467.										<i>R. P. L.</i> 72— <i>s.p.</i>									
Feb. 18	9.5	7	17	30.07	...	81	12	16.5	R	Oct. 10	...	10	18	5.59	7	5	10	32.1	R
22	9.5		17	30.20	...		12	18.4	M										
25	9.5		17	30.15	...		12	16.5	R										
Mar. 1	9.5		17	30.15	...		12	17.4	R	<b>30</b> 42 <i>Hydræ</i> $\mu$									
4	9.5		17	30.13	...		12	17.1	M	Apl. 29	...	10	20	37.44	...	106	15	36.3	M
<b>22</b> 3 <i>Canis Minoris</i> $\beta$										May 3	...		20	37.49	...		15	35.0	R
Feb. 25	...	7	21	1.27	...	81	28	59.1	R	6	...		20	37.51	...		15	32.6	R
Mar. 1	...		21	1.28	...		28	59.8	R	<b>31</b> 58 <i>Leonis</i> <i>d.</i>									
4	...		21	1.46	...		29	1.4	M	Apl. 28	...	10	54	43.47	...	85	46	32.5	R
Apl. 1	...		21	1.47	...		29	1.7	M	29	...		54	43.49	...		46	33.6	M
<b>23</b> $\xi$ <i>Argûs.</i>										May 3	...		54	43.48	...		46	32.8	R
Mar. 4	...	7	44	32.47	...	114	34	35.8	M	6	...		54	43.44	...		46	31.6	R
<b>24</b> 17 <i>Cancri</i> $\beta$										10	...		54	43.51	...		46	32.8	R
Apl. 8	...	8	10	23.15	...	81	27	58.3	M	16	...		54	43.49	...		46	32.5	R
<b>25</b> 43 <i>Cancri</i> $\gamma$										<b>32</b> 84 <i>Leonis</i> $\tau$									
Apl. 1	...	8	36	44.81	...	68	7	32.9	M	May 3	...	11	22	7.55	...	86	31	17.4	R
8	...		36	44.75	...		7	33.1	M	6	...		22	7.56	...		31	15.5	R
<b>26</b> 65 <i>Cancri</i> $\alpha$										<b>33</b> 8 <i>Virginis</i> $\pi$									
Apl. 8	...	8	52	18.38	...	77	42	18.2	M	May 16	...	11	55	4.98	...	82	45	19.0	R
<b>27</b> 14 <i>Leonis</i> $\sigma$										27	...		55	4.93	...		45	18.1	R
Apl. 26	...	9	35	7.10	...	79	36	40.4	R	31	...		55	4.93	...		45	19.0	R
										June 3	...		55	5.01	...		45	19.2	M
										<b>34</b> <i>R. P. L.</i> 92.									
										May 16	...	12	13	30.97	3	2	56	9.8	R
										31	...		13	31.35	3		56	12.2	R

Separate Results of Madras Meridian Circle Observations in 1887.

Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>R. P. L. 92—s.p.</b>									<b>40 93 Virginis τ</b>										
Nov. 3	...	12	18	31.93	8	2	56	13.0	R	June 28	...	18	55	53.69	...	87	54	28.1	M
21	...		18	31.39	8		56	12.9	R	July 1	...		55	53.82	...		54	29.9	M
<b>35 7 Corvi δ<sup>2</sup></b>									<b>41 22 Bootis f.</b>										
May 10	...	12	24	1.11	...	105	53	7.5	R	June 28	...	14	21	12.06	...	70	15	54.2	M
16	...		24	1.12	...		53	11.9	R	July 1	...		21	12.01	...		15	54.8	M
20	...		24	1.20	...		53	7.4	R	<b>42 R. P. L. 110.</b>									
24	...		24	1.12	...		53	8.9	R	June 14	...	14	52	5.29	3	3	34	59.9	M
June 3	...		24	1.16	...		53	8.6	M	28	...		52	3.65	3		34	59.3	M
7	...		24	1.20	...		53	9.0	M	<b>R. P. L. 110.—s.p.</b>									
<b>36 29 Virginis γ<sup>1</sup></b>									<b>43 37 Serpentis ε</b>										
May 24	...	12	35	55.99	...	90	49	42.2	R	Jan. 7	...	14	52	6.82	3	3	34	59.3	M
27	...		35	55.99	...		49	41.8	R	<b>44 20 Herculis γ</b>									
June 3	...		35	55.99	...		49	42.2	M	July 22	...	16	16	55.06	...	70	34	52.8	M
7	...		35	56.04	...		49	43.4	M	<b>45 13 Ophiuchi ζ</b>									
10	...		35	56.08	...		49	41.7	M	July 22	...	16	30	56.13	...	100	20	14.4	M
14	...		35	56.06	...		49	43.8	M	<b>46 35 Ophiuchi η</b>									
<b>37 43 Virginis δ</b>									<b>47 42 Ophiuchi θ</b>										
May 10	...	12	49	54.71	...	85	59	17.1	R	July 12	...	17	3	53.91	...	105	35	1.7	M
20	...		49	54.73	...		59	15.3	R	Aug. 27	...		3	53.90	...		35	1.8	M
24	...		49	54.68	...		59	16.6	R	<b>48 49 Ophiuchi σ</b>									
31	...		49	54.74	...		59	15.4	R	July 12	...	17	15	4.12	...	114	53	7.7	M
June 7	...		49	54.62	...		59	15.9	M	Aug. 27	...		15	4.10	..		53	9.9	M
10	...		49	54.71	...		59	14.6	M	<b>39 4 Bootis τ</b>									
14	...		49	54.68	...		59	17.3	M	June 28	...	18	41	53.65	..	71	58	45.2	M
<b>38 47 Virginis ε</b>									<b>49 49 Ophiuchi σ</b>										
May 20	...	12	56	33.08	...	73	25	57.3	R	July 12	...	17	20	54.40	...	85	45	36.9	M
27	...		56	33.12	...		25	58.0	R	Aug. 27	...		20	54.41	...		45	37.6	M
31	...		56	33.10	...		25	58.5	R	<b>40 93 Virginis τ</b>									
June 10	...		56	33.01	...		25	57.2	M	June 28	...	18	55	53.69	...	87	54	28.1	M
14	...		56	33.04	...		25	59.7	M	July 1	...		55	53.82	...		54	29.9	M

## Separate Results of Madras Meridian Circle Observations in 1887.

Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.	Number and Date.	Magnitude.	Mean Right Ascension 1887.			No. of Wires.	Mean Polar Distance 1887.			Observer.
		h.	m.	s.		o.	'	"				h.	m.	s.		o.	'	"	
<b>49</b> <i>23 Ursæ Minoris δ</i>										<b>54</b> <i>2 Aquarii ε</i>									
July 29	...	18	8	46.60	3	3	23	18.9	M	Oct. 10	...	20	41	33.46	...	99	54	29.9	R
<b>23 Ursæ Minoris δ—s.p.</b>										<b>55</b> <i>61 Cygni.—1st.</i>									
Jan. 28	...	18	8	46.38	3	3	23	17.9	M	Oct. 1	...	21	1	49.83	...	51	48	16.3	R
Feb. 18	...		8	44.80	2		23	19.3	R	<b>56</b> <i>48 Aquarii γ</i>									
25	...		8	46.07	3		23	20.8	R	Nov. 3	...	22	15	49.13	...	91	57	21.6	R
Mar. 4	...		8	45.39	3		23	19.0	M	7	...		15	49.16	...		57	21.6	R
<b>50</b> <i>λ Ursæ Minoris—s.p.</i>										<b>57</b> <i>73 Aquarii λ</i>									
Apl. 1	...	19	36	47.33	7	1	2	23.7	M	Nov. 3	...	22	46	43.03	...	98	10	43.3	R
<b>51</b> <i>53 Aquilæ α, Altair.</i>										7	...		46	42.99	...		10	43.5	R
Oct. 1	...	19	45	16.19	...	31	25	41.9	R	17	...		46	43.00	...		10	43.2	R
5	...		45	16.19	...		25	42.5	R	21	...		46	43.08	...		10	43.7	R
<b>52</b> <i>65 Aquilæ θ</i>										<b>58</b> <i>R. P. L. 155.</i>									
Oct. 1	...	20	5	28.37	...	91	9	18.7	R	Nov. 3	...	23	24	20.34	4	4	12	11.0	R
5	...		5	28.45	...		9	18.5	R	21	...		24	19.80	3		12	15.4	R
10	...		5	28.42	...		9	19.1	R	<b>R. P. L. 155—s.p.</b>									
<b>53</b> <i>2 Delphini ε</i>										Apl. 26	...	23	24	19.71	3	4	12	19.4	R
Oct. 5	...	20	27	48.80	...	79	4	45.6	R	May 16	...		24	19.22	8		12	18.9	R
10	...		27	48.87	...		4	46.8	R										