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SEPARATE RESULTS

OF

OBSERVATIONS

MADE WITH THE

MADRAS MERIDIAN CIRCLE

IN THE YEAR

1863.

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*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observed	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
					<i>h</i>	<i>m</i>	<i>s</i>					
1	21 Andromedæ $\alpha$	Oct	29	R	0	1	18 56	5	61	39	59 3	
			30	R		1	18 68		39	59 1		
		Nov	7	M		1	18 74		39	58 9		
			13	M		1	18 61		40	0 5		
2		Oct	10	M	0	6	3 70	5	149	40	35 9	6 2
		Nov	11	M		6	3 57		40	37 1	6 3	
3	88 Pegasus $\gamma$	Aug	29	R	0	6	10 93	5	75	34	43 2	
			30	R		6	11 11		34	43 4		
		Nov	31	R		6	10 95		34	42 8		
			6	M		6	10 95		34	44 0		
		Nov	9	M		6	10 94		34	43 3		
			13	M		6	10 93		34	44 0		
4		Oct	17	R	0	9	19 71	5	149	32	9 0	8 7
		Nov	4	M		9	20 07		32	13 7	9 0	
5		Nov	2	M	0	12	44 45	5	150	26	58 0	9 4
6	41 Piscium $\delta$	Sep	26	R	0	13	32 96	5	82	34	16 0	
7	R Andromedæ Var 1	Aug	29	R	0	16	<del>48 24</del>	5	52	10	<del>54 0</del>	9 5
			31	R		16	48 19		10	55 2	9 4	
		Oct	17	R		16	48 30		10	54 9	7 8	
		Nov	3	M		16	47 82		10	56 6	7 7	
			6	M		16	<del>48 26</del>		10	56 3	7 8	
8		Oct	10	M	0	17	34 80	5	149	35	28 0	10 0
			29	R		17	34 80		35	30 6	9 8	
		Nov	4	M		17	34 89		35	30 4	9 7	
			13	M		17	34 43		35	29 0	9 4	
9	45 Piscium	Sep	26	R	0	18	38 23	6	83	4	0 1	
		Nov	20	R		18	38 19		3	59 8		
			21	R		18	38 16		3	59 5		
10	12 Ceti	Oct	31	R	0	23	2 90	5	94	42	54 1	
		Nov	7	M		23	2 78		42	53 8		
			9	M		23	2 81		42	54 3		

s 25

s 27

s 3

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
10	12 Ceti	Nov 11	M	0	23	2 78		94	42	54 6	
		14	M		23	2 83		42	55 2		
		18	R		23	2 77		42	52 9		
11		Nov 23	R	0	25	18 92	5	76	9	33 2	10 5
12		Oct 10	M	0	28	50 71		89	7	55 6	9 2
		29	R		28	50 72		5	7	56 2	9 8
		30	R		28	50 65		5	7	55 8	
		31	R		28	50 61			7	54 5	9 7
		Nov 2	M		28	50 62			7	54 8	9 7
		4	M		28	50 81			7	55 9	9 5
5	M		28	50 50		7	56 1	9 4			
13		Aug 29	R	0	30	44 80	4	89	7	52 9	9 8
		31	R		30	41 78	5	7	56 5	9 9	
		Oct 17	R		30	44 97	5	7	54 4	9 2	
		29	R		30	44 87		7	54 0	9 9	
		30	R		30	45 13	5	7	53 8		
		31	R		30	14 75		7	53 8	9 7	
		Nov 4	M		30	44 74		7	55 6	9 6	
		5	M		30	44 72		7	55 1	9 5	
		6	M		30	44 60		7	53 7	9 3	
7	M		30	44 77		7	53 0	9 3			
14	18 Cassiopeæ α Var 1	Dec 7	M	0	32	45 <sup>17</sup> 65		34	12	54 3	
		8	M		32	45 03		12	53 9		
15	1097 Lalande	Nov 3	M	0	34	32 78		89	0	17 3	8 2
		9	M		34	32 82		0	16 8	8 0	
		11	M		34	32 63		0	17 1	8 0	
		13	M		34	32 81		0	17 9	8 0	
		14	M		34	32 71		0	17 9	8 0	
		20	R		34	32 77		5	0	16 7	8 2
16	1123 Lalande	Oct 30	R	0	35	38 91		89	3	21 6	9 2
		31	R		35	38 84		3	20 8	9 1	
		Nov 11	M		35	38 91		4	3	21 5	9 0
		14	M		35	39 00		5	3	23 4	8 9

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>					
16	1123 Lalande	Nov 20	R	0	35	38 88	5	89	3	21 4	9 0
		21	R		35	38 80	5		3	21 1	8 9
		23	R		35	38 86			3	22 5	8 7
		24	R		35	38 95	6		3	20 9	8 8
17	16 Ceti $\beta$	Nov 18	R	0	36	42 64		108	44	19 8	
		Dec 30	M		36	42 73			44	22 0	
18	1198 Lalande	Oct 28	R	0	38	3 46		88	56	36 3	8 7
		29	R		38	3 41	5		56	36 9	8 3
		Nov 4	M		38	3 46	3		56	38 1	8 9
		6	M		38	3 61			56	37 6	8 9
		Dec 8	M		38	3 45	5		56	37 6	8 9
		15	M		38	3 53			56	36 1	8 9
		18	R		38	3 58	4		56	36 2	9 2
		22	R		38	3 52	4		56	37 3	
		23	R		38	3 51	4		56	36 5	8 7
19	0658 W B E	Oct 17	R	0	38	34 98		82	2	31 3	9 3
		30	R		38	34 99	6		2	33 8	9 5
		31	R		38	31 85			2	31 9	9 3
		Nov 5	M		38	34 89			2	31 4	10 0
		23	R		38	35 06	5		2	32 2	9 5
		24	R		38	34 92	5		2	33 3	9 5
		Dec 18	R		38	34 98	4		2	31 7	9 7
		22	R		38	34 93	4		2	32 6	
		23	R		38	34 94	4		2	33 1	9 5
20	63 Piscum $\delta$	Aug 31	R	0	41	34 52	5	83	9	41 0	
		Nov 20	R		41	34 58			9	40 9	
21		Oct 29	R	0	41	37 12	5	89	6	55 9	9 5
		Nov 2	M		41	37 05	6		6	56 1	9 5
		Dec 7	M		41	36 97			6	54 5	9 0
		14	M		41	37 01	4		6	55 9	9 1
		16	R		41	37 00	4		6	56 2	
		17	R		41	37 04	6		6	57 1	9 5
22		Aug 29	R	0	42	6 11	5	88	49	49 7	10 0
		Oct 10	M		42	5 86			49	48 6	10 0

## Separate Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magn.itude	
					h	m	s						
610		Oct	26	R	0	42	<del>011</del>	5	88	49	49.1	98	
			31	R		42	6.01	4		49	48.5	97	
		Nov	7	M		42	5.70			49	47.8	100	
			9	M		42	6.03			49	48.1	100	
			23	R		42	6.04		5		49	48.5	99
		Dec	15	M		42	6.09			49	46.8	100	
			18	R		42	5.96		6		49	49.2	100
	19	R		42	5.94				49	49.4			
3691	0806 W B E	Oct	26	R	0	46	<del>36.92</del>		88	50	6.3	91	
		Nov	3	M		46	36.76			50	5.6	100	
			4	M		46	36.92			50	5.5	100	
			6	M		46	36.69			50	7.7	100	
			13	M		46	36.82			50	6.7	95	
			14	M		46	36.78			50	6.8	95	
			24	R		46	36.97		5		50	5.7	96
21		Oct	1	M	0	47	52.11		133	47	34.4		
25	1638 Lalande	Oct	29	R	0	50	37.45		88	57	24.6	75	
			30	R		50	37.52	5		57	24.8	78	
		Nov	9	M		50	37.49			57	25.3	78	
		,	11	M		50	37.42			57	25.1	78	
			18	R		50	37.38		6		57	24.7	
		Dec	8	M		50	37.43			57	25.8	78	
	10	M		50	37.54			57	24.7	78			
26	1639 Lalande	Oct	28	R	0	50	39.25	5	88	38	55.3	92	
		Nov	2	M		50	39.48			38	57.1	89	
		,	20	R		50	39.27			38	54.7	87	
			23	R		50	39.38			38	53.7		
			28	R		50	39.51		5		38	54.2	
		Dec	7	M		50	39.30			38	54.4	89	
	14	M		50	39.16			38	55.1	89			
1979	27	271 Lacaille	Oct	9	M	0	52	<del>39.32</del>		151	26	17.1	78
28	1784 Lalande	Oct	29	R	0	54	55.91		88	12	48.6	81	
		Nov	3	M		54	55.96			12	48.9	80	
			5	M		54	55.91			12	47.4	80	

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*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863		Magnitude		
				h	m	s						
28	1784 Lalande	<del>Oct</del> 6	M	0	54	55 82	5	88	12	49 1	8 0	
		7	M		51	55 91		12	47 3	8 0		
		23	R		54	55 93		12	45 3	8 3		
		24	R		54	55 99		12	48 5	8 2		
29	71 Piscum e	Dec 16	R	0	55	50 12	5	82	50	53 8		
		17	R		55	50 12		50	56 1			
		18	R		55	50 10		50	51 7			
		19	R		55	50 09		50	51 3			
		21	R		55	50 11		50	51 8			
		23	R		55	50 03		50	51 3			
		24	R		55	50 07		50	51 8			
		25	R		55	50 09		50	51 3			
		26	R		55	50 06		50	51 0			
		29	M		55	50 05		50	54 6			
,	30	M		55	49 97	50	53 3					
30	1579 Lalande	Oct 28	R	0	57	40 70	4	88	25	16 3	7 9	
		30	R		57	40 91		25	15 1	8 0		
		Nov 13	M		57	40 88		25	16 8	7 8		
		,	14	M		57		40 81	25	16 1	7 8	
		18	R		57	40 71		25	15 0			
		20	R		57	40 88		25	15 4	7 8		
		25	R		7	40 82		25	14 6	7 9		
31	O 1031 W B D	Nov 4	M	0	59	4 84	6	88	6	10 2	9 0	
		9	M		59	4 87		6	8 1	9 0		
		11	M		59	4 95		6	9 3	9 0		
		21	R		59	4 82		( ) 1	9 2			
		28	R		59	4 94		6	7 1	9 0		
		Dec 8	M		59	4 68		6	9 9	9 0		
		9	M		59	4 91		6	5 6	9 0		
32		Oct 6	M	1	2	9 01	5	87	57	26 6	10 0	
		8	M		2	<del>8 81</del>		57	27 9	10 0		
		,	10	M		2		8 76	3	57	25 9	10 0
		28	R		2	8 98		5	57	28 1	9 8	
		29	R		2	8 96		57	28 7	9 1		
		31	R		2	8 91		57	27 5	9 7		
		Nov 5	M		2	8 87		57	27 2	9 6		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Mean latitude
				h	m	s					
32		Nov 6	M	1	2	8 65	5	87	57	29 1	97
		23	R	2	8	8 84		7	27 6	100	
		24	R	2	8	8 99		57	28 2	98	
33	I 15 W B D	Oct 30	R	1	2	57 22	5	87	39	1 3	97
		Nov 7	M	2	56	56 91		39	0 2	90	
		25	R	2	57	57 04		39	1 4	90	
		Dec 14	M	2	57	57 18		39	2 5	90	
		15	M	2	57	57 18		39	0 7	90	
		17	R	2	57	57 01		39	3 3	97	
		18	R	2	57	57 09		39	2 8	95	
		19	R	2	57	57 08		39	1 5	99	
		21	R	2	57	57 10		39	2 8	95	
34	2089 Iulindo	Nov 4	M	1	3	24 37	6	88	10	34 3	89
		21	R	3	24	24 36		10	35 1	80	
		28	R	3	24	24 40		10	35 2	87	
		Dec 9	M	3	24	24 51		10	35 4	89	
		23	R	3	24	24 31		10	35 1	90	
		24	R	3	24	24 30		10	35 1		
		26	R	3	24	24 42		10	31 1		
35	33 Ceti	Dec 26	R	1	3	30 55	4	88	17	4 6	
		29	M	3	30	30 85		17	6 0		
		30	M	3	30	30 60		17	6 1		
		31	M	3	30	30 53		17	6 1		
36	86 Piscium γ A	Aug 31	R	1	6	34 49	5	83	9	1 1	
		Sep 28	R	6	34	34 50		9	0 4		
		Dec 19	L	6	34	34 45		9	0 6		
37	1 101 W B I	Oct 28	R	1	7	42 70	6	87	54	19 1	92
		Nov 18	L	7	42	42 70		54	16 5		
		23	R	7	42	42 66		54	18 2	82	
		24	R	7	42	42 87		54	17 5	90	
		28	R	7	42	42 75		51	17 7	89	
		Dec 10	M	7	42	42 70		54	17 5	90	
		14	M	7	42	42 73		54	19 5	90	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s					
38	1 Ursæ Minoris <i>α</i> <i>sp</i>	Apl 8	M	1	8	59 31	3	1	25	15 1	
		<i>sp</i> 10	M		8	59 32	3		25	17 0	
		<i>sp</i> 13	M		8	59 53	3		25	16 1	
		<i>sp</i> 15	M		9	0 06	3		25	11 4	
		<i>sp</i> May 9	M		8	59 61	3		25	15 6	
		<i>sp</i> 19	R		8	59 69	3		25	15 3	
		<i>sp</i> 26	R		8	59 95	3		25	15 4	
		Dec 12	M		8	59 64	2		25	14 0	
		17	R		8	59 13	2		25	16 4	
39		Oct 29	R	1	9	13 09	5	87	42	21 2	97
		30	R		9	13 19			12	24 6	98
		31	R		9	12 97			42	25 0	96
		Nov 9	M		9	13 05			12	21 3	100
		11	M		9	12 95			42	21 7	100
		13	M		9	12 88		12	21 9	100	
		14	M		9	12 92		12	24 6	97	
		21	R		9	13 03		42	23 9	98	
40	45 Ceti <i>θ</i>	Aug 31	R	1	17	10 50	5	99	53	29 0	
		Oct 29	R		17	10 51			53	29 3	
		Nov 25	R		17	10 47			53	25 7	
		30	R		17	10 50			53	25 9	
		Dec 16	R		17	10 63			53	29 0	
		17	R		17	10 52			53	31 0	
		21	R		17	10 55			53	29 9	
		23	R		17	10 52			53	30 2	
		25	R		17	10 56			53	25 1	
		26	R		17	10 53			53	29 1	
		30	M		17	10 47			53	30 8	
		31	M		17	10 44			53	29 9	
41		Nov 28	R	1	23	24 08	5	87	44	17 1	80
		Dec 8	M		23	24 01		14	17 3	81	
42	R Piscium Var 1	Dec 23	R	1	23	34 40	4	87	49	<del>43 5</del>	10 2
43	99 Piscium <i>η</i>	Aug 31	R	1	24	9 37	5	75	21	43 5	
		Oct 26	R		24	<del>9 37</del>	5		21	13 8	
		Nov 14	M		24	9 30			21	44 2	



*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
43	99 Piscium $\eta$	Nov 21	R	1	24	9 32	5	70	21	43 1	
		23	R		24	9 35		21	42 4		
		Dec 17	R		24	9 32	21	45 0			
		21	R		24	9 29	21	43 3			
		, 25	R		24	9 30	21	42 6			
		26	R		24	9 31	21	43 0			
		31	M		24	9 35	5	21	43 4		
44	102 Piscium $\pi$	Oct 26	R	1	20	50 23		78	33	39 1	
45	525 Tylor	Nov 4	M	1	30	7 09		148	50	23 0	5 9
		5	M		30	6 86		50	24 3	5 9	
46	539 Tylor	Nov 3	M	1	31	43 84	5	148	59	15 6	5 5
		6	M		31	43 40	5	56	17 6	5 7	
47	— Iridani $\alpha$	Nov 18	R	1	32	36 63	5	147	56	2 4	
		Dec 22	R		32	36 78		56	2 9		
48	106 Piscium $\nu$	Oct 29	R	1	34	18 22		80	12	25 4	
		Nov 14	M		34	18 22		12	26 7		
		, 21	R		34	18 24		12	24 4		
		Dec 8	M		34	18 30		12	25 7		
		, 11	M		34	18 19		12	24 9		
49	503 Tacullo	Nov 11	M	1	35	40 99		151	41	37 3	7 5
		25	R		35	40 93		41	36 2	8 3	
50	507 Tacullo	Nov 7	M	1	37	6 61		151	28	49 2	6 0
		28	R		37	6 38		28	51 4	6 3	
51	110 Piscium $\sigma$	Nov 21	R	1	38	9 67		81	31	59 8	
52		Oct 28	R	1	39	51 31	5	149	27	30 0	9 0
		Nov 2	M		39	51 70		27	41 1	9 5	
53		Nov 11	M	1	46	7 59	5	148	58	15 5	9 7
		Dec 8	M		46	7 53	3	58	14 7	9 6	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Sta	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
54	6 Arctus $\beta$	Oct 29	R	1	47	4 62		69	51	45 4	
		Nov 1	M		47	4 62		51	18 9		
		9	M		47	4 59		51	48 4		
		18	R		47	4 59		51	48 4		
		21	R		47	4 57		51	48 5		
		30	R		47	4 57		51	49 1		
		Dec 7	M		47	4 40		51	49 8		
		10	M		17	1 68		51	19 3		
		11	M		47	4 59		51	49 9		
		12	M		47	4 57		51	47 7		
		19	R		17	4 72			48 6		
		24	R		17	4 70		51	47 8		
		31	M		47	1 61		51	19 1		
		55		Nov 7	M	1		48	31 03	5	
25	R				46	31 15	6		5	30 8	9 5
56	582 Lacaille	Nov 3	M	1	50	52 87		140	11	39 0	8 7
		6	M		50	52 65		44	40 1	8 5	
57		Nov 7	M	1	59	21 53		150	2	49 2	9 6
		25	R		59	21 63			2	50 6	9 5
58	13 Arctus $\alpha$	Nov 11	M	1	59	27 26		67	11	16 2	
		28	R		59	27 34		11	11 9		
		30	R		9	27 35		5	11	11 9	
		Dec 6	M		59	27 23		11	15 9		
		11	M		9	27 31		11	15 5		
		11	M		59	27 32		11	15 8		
		15	M		9	7 30		11	14 5		
		16	R		9	27 22		11	14 2		
		24	I		9	27 31		11	15 5		
29	M		59	27 35	11	15 9					
59	630 Lacaille	Nov 5	M	1	59	16 48		145	32	17 5	6 0
		13	M		59	46 43		32	18 3	6 0	
60		Oct 29	R	2	1	1 61		149	49	19 8	9 6
		Nov 2	M		1	1 56		6	19	23 9	9 6

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*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
61	697 Taylor	Nov 6	M	2	1	44.07	5	145	44	16.5	7.0
		Dec 17	R		1	43.78		44	16.2	7.8	
62	17 Arctus $\eta$	Dec 19	R	2	5	8.15		69	26	5.5	
63	677 Laculle	Nov 7	M	2	6	51.10	5	149	47	52.8	8.0
64		Nov 11	M	2	6	56.71		148	39	46.7	9.8
65	67 Ceti	Dec 7	M	2	10	9.04	5	97	3	19.4	9.05
		8	M		10	9.01		3	20.0		
		10	M		10	9.01		3	19.2		
		11	M		10	9.01		3	19.2		
		14	M		10	9.05		3	21.2		
		20	M		10	9.10		3	21.0		
66	68 Ceti or $\gamma$ m 1	Dec 17	R	2	12	25.64		93	36	8.6	7.8
67		Oct 27	R	2	13	56.42	5	148	27	13.6	9.7
		Nov 4	M		13	56.25	4		27	14.2	9.6
68		Nov 9	M	2	15	38.11	5	152	34	27.8	7.1
		Dec 18	R		15	37.61	5		34	28.0	9.0
69	81b Taylor	Oct 26	R	2	19	6.27	5	117	26	14.8	8.5
		27	R		19	6.31	5		26	15.0	8.0
70	73 Ceti $\xi$	Nov 18	R	2	20	52.68	5	82	9	20.7	
		, 23	R		20	52.59		9	21.8		
		28	R		20	52.70		9	20.8		
		Dec 7	M		20	52.66		9	20.8		
		10	M		20	52.61		9	21.1		
		, 12	M		20	52.66		9	20.6		
		14	M		20	52.64		9	22.8		
		15	M		20	52.60		9	21.2		
71	— Horologium $\lambda$	Nov 13	M	2	21	4.08	5	150	55	36.9	6.0
		Dec 19	R		21	4.21		55	31.7	7.0	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>					
72	26 R P L	Nov 14	M	2	22	11 74	3	3	33	14 8	
		, 26	R		22	11 90	2		33	10 1	
73		Nov 9	M	2	24	13 73	5	152	35	55 2	9 3
		Dec 18	R		24	13 58		35	56 7	9 5	
74		Oct 26	R	2	27	23 67	4	147	12	29 7	8 7
		27	R		27	23 69		12	26 1	8 8	
75	31 Arietis	Nov 23	R	2	29	9 86		78	8	50 0	
76	849 Lacaille (1st)	Nov 9	M	2	35	59 20		150	9	20 0	7 8
77	849 Lacaille (2nd)	Dec 10	M	2	36	3 93	2	150	9	32 8	7 9
		14	M		36	3 78		9	31 6	8 0	
78	86 Ceti $\gamma$	Oct 28	R	2	36	12 30	6	87	20	40 8	12 12
		Nov 20	R		36	12 23		20	37 5		
		Dec 7	M		36	12 12		20	37 6		
		8	M		36	12 17		20	38 5		
		12	M		36	12 21		20	36 4		
		18	R		36	12 26		20	11 5		
79	38 Arietis	Nov 23	R	2	37	29 97	5	78	7	55 9	
80	868 Lacaille	Oct 26	R	2	38	31 18		117	13	27 5	8 0
		27	R		38	31 17		13	26 4	8 5	
81		Dec 15	M	2	43	16 32		118	0	51 6	8 7
82		Oct 26	R	2	44	27 54	5	118	14	5 1	8 8
		27	R		44	27 45		14	5 9	8 7	
83		Nov 26	R	2	40	12 36	5	76	28	9 1	9 0
84	48 Arietis $\epsilon$	Oct 26	R	2	51	22 97		69	12	38 0	
		27	R		51	23 01		12	37 7		
85		Dec 8	M	2	52	<del>20 72</del>	A	150	17	22 3	8

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>		<i>°</i>			
86	92 Octi $\alpha$	Nov 23	R	2	55	7 21		86	27	0 5	
		24	R		55	7 23		27	0 0		
		26	R		55	7 15		27	0 4		
		28	R		55	7 12		27	0 2		
		Dec 10	M		55	7 14		27	0 4		
		12	M		55	7 16		26	59 6		
		, 22	R		55	7 17		27	1 0		
23	R		55	7 20	27	1 2					
87	25 Persei $\rho$ Var 2	Dec 11	M	2	56	21 33		51	41	38 0	
88	26 Persei $\beta$ Var 1	Dec 19	R	2	59	15 32		49	34	55 4	
89	1047 Taylor	Nov 7	M	2	59	50 11		151	20	1 8	6 0
90	33 R P L	Jan 9	M	3	0	29 64	5	5	35	4 3	
		10	M		0	30 02	3		35	3 3	
91	57 Arctis $\delta$	Oct 26	R	3	3	47 94		70	47	40 7	
		27	R		3	47 94		47	38 6		
		Nov 23	R		3	47 96		47	39 8		
		21	R		3	47 99		47	39 4		
		Dec 30	M		3	48 00		47	39 9		
92		Jan 16	M	3	12	38 90	5	130	50	30 1	8 5
		Dec 14	M		12	38 92	4		50	30 7	8 5
		22	R		12	39 02			50	30 7	9 0
93	61 Arctis $\tau$	Nov 23	R	3	13	19 29		69	20	59 3	
		21	R		13	19 37		20	59 4		
94		Oct 26	R	3	14	49 93	5	150	6	32 6	9 2
95	1 Tauri $\sigma$	Dec 12	M	3	17	26 50		81	27	20 8	
96		Oct 27	R	3	20	16 88	5	149	19	7 8	9 0
97	R Persei Var 3	Dec 22	R	3	21	20 25		51	48	15 6	9 7
		23	R		21	20 20		6		48	15 2

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
98		Nov 18	R	3	21	56 70		88	12	37 5	7 5
99		Nov 13	M	3	25	51 94		87	53	32 0	9 0
		27	R		20	51 95			53	28 5	9 4
100	1193 Lacaille	Dec 8	M	3	35	14 00		146	35	24 7	8 3
101	1200 Lacaille	Nov 14	M	3	36	23 16		146	40	41 3	6 7
102		Nov 26	R	3	38	3 95	5	146	13	2 3	9 0
103	25 Tauri $\eta$	Jan 5	M	3	39	20 69		66	19	16 4	
		6	M		39	20 75			19	17 6	
		8	M		39	20 73			19	18 1	
		10	M		39	20 72			19	18 4	
		Oct 27	R		39	20 64	5		19	19 6	
		28	R		39	20 65			19	19 4	
		Dec 9	M		39	20 59			19	19 1	
		15	M		39	20 66			19	17 6	
		22	R		39	20 50			19	18 5	
		23	R		39	20 59			19	18 6	
104		Feb 5	R	3	40	8 33	5	76	27	51 2	
		Nov 26	R		45	8 18	5		27	58 6	8 6
		Dec 22	R		45	8 35	5		27	56 0	9 0
105	34 Eridani $\gamma^1$	Jan 5	M	3	51	38 22		103	54	1 1	
		6	M		51	38 23			54	1 9	
		8	M		51	38 23			54	2 1	
		Nov 25	R		51	38 25			54	2 0	
		27	R		51	38 25			54	3 0	
		Dec 9	M		51	38 20			54	2 7	
		14	M		51	38 29			54	4 7	
		22	R		51	38 31			54	3 0	
106		Nov 24	R	3	53	2 96		128	25	35 7	10 0
107	35 Tauri $\lambda$ Var 1	Jan 9	M	3	53	5 55	5	77	53	58 3	
		10	M		53	5 63			<del>52</del> <del>54</del>	<del>60</del> <del>70</del>	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
108		Dec 12	M	3	53	38 68	5	143	8	33 2	8 1
109	37 Tauri A <sup>1</sup>	Oct 27	R	3	56	35 92	5	68	17	45 3	
		28	R		56	35 86	5		17	47 1	
		Dec 22	R		56	35 87			17	46 2	
110	7581 Lalande	Feb 5	R	3	58	10 37	6	74	52	31 5	9 0
		9	R		58	10 41	5		52	30 7	
111		Feb 2	R	4	3	20 55	4	68	30	27 2	10 0
		Nov 24	R		3	20 45	4		30	28 3	10 3
112	7764 Lalande	Feb 5	R	4	3	24 83		74	41	0 8	8 5
		, 9	R		3	24 96	5		44	2 1	8 3
113		Nov 27	R	4	3	41 01		146	56	38 5	9 2
114	38 Indam o <sup>1</sup>	Jan 15	M	4	5	10 70		97	11	51 4	
		Dec 18	R		5	10 74			11	51 7	
115	1418 Lacaille	Jan 16	M	4	12	25 56	5	143	39	54 7	8 0
		Oct 28	R		12	25 52			39	54 7	8 2
116		Nov 27	R	4	13	44 17	5	70	51	40 1	8 8
		Dec 12	M		13	44 12			51	40 6	9 0
117		Feb 2	R	4	15	37 57	6	128	39	56 9	9 5
		5	R		15	37 80	4		39	59 9	9 5
118		Dec 8	M	4	16	44 94	3	149	4	34 4	8 7
119	74 Tauri e	Jan 5	M	4	20	37 18		71	7	35 5	
		6	M		20	37 11			7	36 9	
		9	M		20	37 23			7	36 8	
		10	M		20	37 10			7	37 0	
		14	M		20	37 26			7	35 8	
		15	M		20	37 28			7	36 0	
		17	R		20	37 16			7	35 8	
		Oct 28	R		20	37 17			7	38 2	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
					h	m	s					
130	1098 Lacaille	Feb	12	R	4	41	35 31	5	128	21	43 7	7 0
		Dec	18	R		41	35 29		21	40 8	8 0	
131		Jan	23	R	4	43	18 87	5	130	41	18 3	9 5
		Dec	17	R		43	18 57		41	21 6	9 7	
132	97 Tauri	Dec	22	R	4	43	<del>21 00</del>		71	23	49 8	
			23	R		43	<del>21 06</del>		23	49 6		
133	1625 Lacaille	Jan	19	R	4	44	57 43		140	1	53 5	8 5
			21	R		44	57 40		1	51 0	8 0	
131		Jan	24	R	4	45	26 85	5	199	25	9 4	9 0
		Feb	14	R		45	26 97		25	8 5	8 7	
135	3 Aurigæ	Jan	16	M	4	45	4 44	4	57	3	16 8	
			17	R		48	4 45		3	16 8		
		Feb	9	R		48	4 46		3	17 0		
136	1761 Taylor	Jan	22	R	4	49	57 63		129	18	43 8	7 5
137	7 Aurigæ & Var 1	Jan	21	R	4	52	8 50	5	46	23	0 5	
		Feb	13	R		52	8 62		23	0 8		
138	1780 Taylor	Jan	20	R	4	52	<del>15 45</del>		144	38	52 0	9 0
139		Jan	24	R	4	52	17 06	5	129	39	57 2	9 0
140	R Leporis Var 1	Jan	6	M	4	53	21 99	6	105	0	54 1	6 0
			8	M		53	22 08		0	54 1		
			9	M		53	22 26		0	54 8		
			10	M		53	22 11		0	55 0		
			15	M		53	22 17		0	53 9	6 5	
141	102 Tauri	Dec	22	R	4	54	<sup>43</sup> 54 06		68	36	35 9	
142		Jan	23	R	4	55	54 58	6	130	17	47 1	9 0
		Feb	12	R		55	54 44		17	46 0	9 2	
			17	R		55	54 56		17	45 1	9 0	



## Separate Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s					
143	1811 Taylor	Jan 22	R	4	57	1 03	5	129	55	8 7	6 5
144	1705 Lacaille	Feb 14	I	4	57	23 66		129	16	37 2	8 1
		Dec 12	M		57	28 50			16	38 0	8 0
145	2 Leporis $\epsilon$	Jan 17	R	4	59	39 76		112	33	27 8	
		19	I		59	39 64			33	26 9	
		20	R		59	39 76			33	26 7	
		21	R		59	39 69	5		33	26 0	
		Feb 9	P		59	39 92	5		33	27 3	
		16	R		59	39 69			33	27 1	
146	15 Orionis	Nov 25	P	5	1	51 11		74	31	2 6	
		26	R		1	51 55			31	3 1	
147		Jan 23	R	5	6	0 29		131	45	17 7	9 0
		Feb 12	R		6	0 25			45	16 8	9 0
148	13 Aurigæ $\alpha$	Feb 14	R	5	6	31 36		11	9	28 4	
149		Jan 22	R	5	6	50 12	5	129	6	7 7	9 0
		Feb 13	R		6	19 90			6	9 0	5 5
150	19 Orionis $\beta$	Jan 15	M	5	7	57 11		95	21	15 9	
		16	M		7	57 09			21	15 9	
		29	P		7	57 33			21	16 8	
		Dec 23	R		7	57 36			21	50 3	
151		Jan 23	R	5	12	19 77	5	129	40	10 5	9 5
		Feb 12	R		12	19 56	5		40	9 5	9 3
152	1822 Lacaille	Jan 20	R	5	15	41 44		141	43	16 4	8 0
		Feb 14	R		15	<del>41 63</del>	3		43	17 6	7 5
153	112 Tauri $\beta$	Jan 9	M	5	17	38 04		61	30	44 9	
		16	M		17	37 95			30	43 2	
		21	R		17	37 94			30	41 1	
		29	R		17	37 91			30	44 8	
		30	P		17	37 96			30	44 4	

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*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
153	112 Gamma β	Feb 2	R	5	17	37.93		61	30	44.2	
		5	R		17	37.89		30	43.7		
154		Jan 22	R	5	18	11.05		129	58	4.4	85
		Feb 13	R		18	40.94		58	4.6	89	
		Dec 10	M		18	10.64		58	4.3	87	
155		Jan 23	R	5	19	43.4°		131	3	57.6	95
156	31 Orionis δ Var 1	Jan 14	M	5	25	0.39	5	90	24	13.5	
		19	R		25	0.43		24	14.3		
		20	R		25	0.58		24	14.0		
		Feb 14	R		25	0.58		24	14.5		
		16	R		25	0.49		24	13.4		
		18	R		25	0.54		24	14.2		
		Nov 27	R		25	0.48		24	14.2		
157	11 Leporis α	Jan 21	R	5	26	41.34	6	107	55	22.7	
		22	R		26	41.31		55	22.6		
		24	R		26	41.39		55	22.8		
		Feb 5	R		26	41.38		55	21.6		
		" 17	R		26	41.36		55	22.0		
158	46 Orionis ε	Jan 19	R	5	29	15.81	5	91	17	33.5	
		23	R		29	15.77		17	33.9		
		Feb 2	R		29	15.68		17	33.2		
159	123 Iota ζ	Jan 29	R	5	20	27.16		68	56	41.2	
160		Feb 4	R	5	31	35.77	5	128	42	15.0	
		Dec 10	M		31	35.73		42	17.8	91	
		23	R		31	35.72		42	19.0	93	
161		Feb 3	R	5	32	30.88	4	128	11	17.4	90
		Dec 23	R		32	39.82		41	18.4	93	
162	— Columba α	Jan 20	R	5	34	41.34	5	124	8	57.2	
		" 22	R		34	41.39		8	57.5		
		23	R		31	11.42		8	56.2		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>		<i>°</i>			
162	— Columbae $\alpha$	Feb 5	R	5	34	41 30		124	8	56 0	
		18	R		34	41 40		8	57 4		
163	2113 Taylor	Jan 24	R	5	35	6 11	5	130	45	36 7	8 5
164		Feb 17	R	5	36	41 64		129	57	52 4	9 2
165		Feb 2	R	5	38	21 08	4	130	5	29 1	9 0
		4	R		38	21 73	5	5	26 1		
166	1984 Lacaille	Jan 24	R	5	40	39 94	5	130	15	21 1	7 5
		Feb 3	R		40	39 80		15	20 6	8 0	
167	54 Orionis $\chi^1$	Feb 27	R	5	46	16 06		69	45	17 5	
		Dec 23	R		46	16 27		45	12 3		
168	2036 Lacaille	Feb 12	R	5	46	18 80		129	47	14 8	8 0
		Dec 14	M		46	18 73		47	16 1	8 2	
169	58 Orionis $\alpha$ Var 2	Jan 16	R	5	47	45 37		82	37	19 1	
		22	R		47	45 44		37	18 6		
		23	R		47	45 30		37	18 1		
		24	R		47	45 25		37	18 6		
		30	R		47	45 31		37	17 9		
		Feb 2	R		47	45 29		37	16 3		
		3	R		47	45 17		37	17 7		
		5	R		47	45 27		37	18 4		
		9	R		47	45 21		37	17 9		
		10	R		47	45 33		37	18 0		
		Nov 26	R		47	45 36		37	19 6		
		27	R		47	45 33		37	19 8		
		170		Feb 13	R	5		49	34 77		
171		Feb 12	R	5	52	39 45	4	129	32	35 1	9 0
172		Jan 24	R	5	53	14 82		131	7	15 1	8 0
		Feb 4	R		53	14 76		7	15 0		

## Separate Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude	
					h	m	s		°	'	"		
173	2101 Lucalle	Jan	22	R	5	54	20 15	3	143	26	<del>213</del>	7 5	
		Feb	11	R		54	20 12				26	<del>247</del>	8 7
174	62 Orionis $\chi$	Dec	23	R	5	55	47 02		69	51	<del>449</del>		
175		Jan	30	R	5	56	7 44	6	129	57	13 8	9 5	
		Feb	3	R		56	7 50				57	11 7	9 0
176	2301 Taylor	Dec	14	M	5	58	23 90		148	6	20 5	6 3	
177		Feb	13	R	5	59	33 82	5	129	49	48 7	8 2	
		Nov	26	R		59	39 02				49	47 0	
178	67 Orionis $\nu$	Jan	14	M	5	59	44 93	5	75	13	6 4		
			16	R		59	44 99				13	8 0	
			22	R		59	44 94				13	7 7	
			23	R		59	45 01				13	6 8	
			24	R		59	44 99				13	7 3	
			29	R		59	44 98				13	7 8	
		Feb	2	R		59	44 90				13	7 5	
			9	R		59	45 00				13	6 9	
			10	R		59	45 00				13	7 9	
			16	R		59	45 00				13	8 5	
			23	R		59	45 10				13	7 3	
			Mar 2	R		59	45 00				13	7 8	
179		Feb	17	R	6	3	37 31		129	58	10 8	8 8	
			28	R		3	37 31				58	11 2	8 8
180		Feb	11	R	6	4	20 19	5	128	2	33 8	7 0	
			14	R		4	20 21				2	33 4	7 8
181	7 Gemmaurum $\gamma$	Jan	30	R	6	6	<del>33 46</del>		67	27	26 4		
		Nov	26	R		6	<del>33 39</del>				27	<del>26 3</del>	
			27	R		6	<del>33 39</del>				27	<del>27 0</del>	
182		Jan	24	R	6	8	47 70	5	131	54	43 4	9 0	
		Feb	4	R		8	47 74				54	42 5	
183		Feb	18	R	6	8	51 34	4	130	31	34 1		

36 41 — — — —  
 36 43 — — — —  
 36 42 — — — —

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 27 — — — —

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
					h	m	s					
184	13 Gemmorum $\mu$	Jan	16	R	6	14	40 58	5	67	25	11 5	
			30	R		14	40 34		25	12 0		
		Feb	10	R	14	40 34	25		11 6			
			12	R	14	40 34	25		12 1			
			18	R	14	40 36	25		11 3			
		28	R	14	40 44	25	11 3					
		Nov	26	R	14	40 27	25		12 1			
185		Feb	14	R	6	21	54 66	6	129	36	27 4	9 3
			28	R		21	54 46		36	27 6	9 5	
186	2521 Taylor	Jan	30	R	6	23	<del>26 01</del>		131	3	1 3	7 5
187	24 Gemmorum $\gamma$	Jan	16	R	6	29	47 90	5	73	29	14 3	
			Feb	10	R		29		47 77	29	14 4	
			12	R		29	47 72		29	15 3		
		,	14	R		29	47 84		29	14 6		
			18	R		29	47 87		29	14 7		
			21	R		29	47 77		29	14 8		
			28	R		29	47 85		29	14 7		
		Mar	2	R		29	47 69		29	15 3		
			3	M		29	47 81		29	15 3		
			4	M		29	47 81		29	14 5		
		,	5	M		29	47 69		29	14 6		
			6	M		29	47 84		29	13 2		
188		Jan	17	R	6	31	24 41	5	140	0	10 4	9 0
			,	21	R		31	24 37	5	0	8 2	9 0
189		Jan	30	R	6	33	51 92	6	130	51	15 0	9 0
		Feb	4	R		33	51 92		54	13 5	9 0	
190		Feb	24	R	6	34	28 58	5	130	27	51 9	7 7
191	51 Cephei (Hev)	Jan	19	R	6	35	8 49	3	2	45	17 5	
			20	R		35	8 75	3	45	16 7		
			24	R		35	8 76	3	45	16 1		
		Feb	3	R		35	8 67	3	45	16 5		
		9	R		35	8 13	3	45	16 6			

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*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
191	J1 Caphor (Hev)	Feb 11	R	6	35	8 35	3	2	45	15 0	
		17	R		35	8 88		45	15 5		
		Mar 2	R		35	8 30		45	17 3		
192		Feb 13	R	6	36	11 01	3	130	20	57 8	8 8
		14	R		36	11 15		20	57 0	9 0	
193	31 Geminorum ξ	Feb 27	R	6	37	35 84		76	57	35 9	
		28	R		37	35 94		57	36 5		
194	9 Canis Majoris α	Jan <del>9</del>	M	6	39	6 56		106	34	51 7	1/
195		Feb 24	R	6	42	21 57		130	56	51 6	8 8
		26	R		42	21 37		56	52 4	9 0	
196		Jan 21	R	6	43	38 73		128	30	20 3	9 0
		Feb 4	R		43	38 63		30	18 9	8 5	
197	2721 Taylor	Jan 17	R	6	44	52 18	5	144	35	58 2	9 0
		Feb 13	R		44	52 05		35	58 9	8 8	
198	2500 Lacaille	Feb 27	R	6	46	57 71	5	130	23	14 8	7 8
199	2516 Lacaille	Feb 17	R	6	48	21 45	5	130	31	34 7	8 2
		23	R		48	21 60		31	34 4		
200		Feb 25	R	6	49	40 68	5	129	8	13 8	9 3
201	21 Canis Majoris ε	Jan 7	M	6	53	14 57	5	118	47	15 7	
		20	R		53	14 50		47	17 0		
		Feb 3	R		53	14 46		47	15 8		
		, 5	P		53	14 52		47	15 6		
		, 13	R		53	14 61		47	18 3		
		, 21	R		53	14 54		47	16 9		
202		Feb 24	R	6	53	45 82		129	47	27 6	9 0
203	2805 Taylor	Feb 14	R	6	55	58 22		62	12	25 2	7 6
204	43 Geminorum δ	Jan 15	M	6	55	58 85		69	13	56 3	<del>5 5</del>

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s					
204	43 Geminorum 5	Feb 26	R	6	55	58 83		60	13	57 3	
		27	R		55	58 85			13	56 5	
		Nov 27	R		55	58 89			13	56 8	
205	23 Canis Majoris $\gamma$	Feb 2	P	6	57	33 59		105	26	0 9	
		11	R		57	33 63	5		25	59 8	
		13	R		57	33 65			26	0 8	
		17	R		57	33 66			25	59 7	
		21	R		57	33 70	4		26	0 5	
		Mar 2	R		57	33 53			26	2 2	
		13	M		57	33 63			26	0 0	
206	R Geminorum Var 2	Jan 17	R	6	59	6 24		66	5	20 0	8 0
		20	R		59	6 47	5		5	20 8	8 0
		Feb 25	R		59	6 28			5	20 1	7 2
207		Jan 16	R	6	59	8 11	5	66	59	50 1	9 0
208		Feb 24	R	6	59	47 20	5	129	42	59 4	7 8
209	2851 Taylor	Mar 11	M	7	0	48 71		145	44	43 8	7 8
210	R Canis Minoris Var 1	Jan 21	R	7	1	10 41		79	45	46 7	8 7
		Feb 14	R		1	10 39	4		45	46 2	7 9
		23	R		1	10 39	6		45	46 7	8 5
211		Mar 16	M	7	4	55 62	5	130	42	26 1	9 0
212	2899 Taylor	Feb 5	P	7	5	45 64		130	8	42 2	8 3
213		Feb 27	R	7	5	49 92	5	129	23	7 9	9 0
214		Feb 25	R	7	6	36 63	5	129	2	39 0	7 3
215	2696 Lacaille	Jan 21	R	7	9	20 62		140	58	44 6	8 5
		Feb 18	R		9	20 61			58	46 6	6 3
216	2940 Taylor	Jan 23	R	7	9	26 25		129	57	35 9	8 5
217	54 Geminorum	Nov 27	R	7	10	13 09		73	12	7 4	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s					
218		Mar 13	M	7	10	14 44		131	52	53	9 5
219	55 Geminorum $\delta$	Feb 2	P	7	11	56 36		67	46	72	
		3	R		11	56 31		46	73		
		, 4	R		11	56 32		36	87		
		, 11	R		11	56 25		46	83		
		, 13	R		11	56 27		46	95		
		, 17	R		11	56 35		46	91		
		23	R		11	56 38		46	85		
		24	R		11	56 30		46	82		
		25	L		11	56 22		46	86		
		26	L		11	56 33		46	92		
		28	R		11	56 31		46	85		
		Mar 2	R		11	56 23		46	90		
		3	M		11	56 28		46	87		
		4	M		11	56 36		46	92		
	5	M		11	56 31		46	98			
	6	M		11	56 23		46	88			
	,, 19	M		11	56 39		46	90			
220		Feb 27	R	7	12	59 12	5	129	15	51 3	9 5
221		Mar 14	M	7	14	28 97		138	49	29 4	8 0
222		Jan 23	R	7	17	22 76	6	129	13	19 6	8 5
		Feb 12	R		17	22 78		13	19 4		8 8
223		Feb 23	R	7	18	1 93	4	129	42	29 6	9 6
		, 24	R		18	1 82	5	42	26 3		9 8
224	3013 Tylor	Feb 25	R	7	19	11 32	5	129	16	19 5	6 8
		, 27	R		19	11 35		16	18 2		7 3
225	2807 Lacaille	Jan 21	R	7	19	30 96		142	15	14 1	8 0
		Feb 18	R		19	31 17		15	15 0		
226		Mar 17	M	7	19	33 48		123	7	52 1	9 0
227		Mar 16	M	7	21	32 00		131	50	19 2	7 0



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*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>					
228	S Canis Minoris Var 2	Feb 11	R	7	25	17 00	3	81	23	34 9	10 0
		23	R		25	16 84	4		23	33 9	9 5
		25	R		25	16 99	5		23	34 4	9 8
229	68 Geminorum	Jan 23	R	7	25	47 25		73	52	51 5	* 6 5
		Feb 28	R		25	47 21			52	54 9	
230	66 Geminorum $\alpha$	Feb 2	P	7	25	51 35		57	48	53 6	
		5	P		25	51 44			48	52 6	
		13	R		25	51 20	6		48	54 6	
		17	R		25	51 23			48	53 3	
		21	L		25	51 28			48	52 9	
		26	R		25	51 15			48	53 9	
		27	R		25	51 16			48	53 1	
		Mar 2	P		25	51 37			48	53 8	
		6	M		25	51 24			48	55 0	
		9	M		25	51 23			48	53 8	
231	3126 Taylor	, 18	M		25	51 19		48	55 3		
		, 19	M		25	51 15		48	54 1		
232		Jan 19	R	7	26	<del>273</del>	5	142	5	45 3	9 0
232		Mar 17	M	7	26	46 17		123	7	15 0	9 2
233	3126 Taylor	Jan 21	R	7	29	32 74		143	15	35 0	7 5
234	10 Canis Minoris $\alpha$	Jan 7	M	7	32	7 64		84	25	35 9	
		Feb 4	R		32	7 80			25	38 4	
		12	R		32	7 75			25	38 0	
		24	R		32	7 73			25	37 0	
		26	R		32	7 80			25	37 4	
		27	R		32	7 73			25	36 3	
		Mar 3	M		32	7 72			25	37 3	
		4	M		32	7 65			25	36 8	
		5	M		32	7 67			25	37 7	
		6	M		32	7 68			25	36 6	
		9	M		32	7 65			25	37 0	
		11	M		32	7 71			25	37 1	
12	M		32	7 66			25	38 2			

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
					h	m	s		"			
231	10 Canis Minoris $\alpha$	Jan	18	M	7	32	7 72	3	84	25	37 4	
			19	M			32 7 85		25 37 8			
235	2993 Lalande	Jan	15	M	7	32	41 06		121	49	18 1	8 0
236	2910 Lacaille	Jan	19	R	7	33	16 04	3	143	52	47 6	8 5
237		Jan	20	R	7	35	27 60	5	144	19	34 5	8 5
238	78 Geminorum $\beta$	Feb	4	R	7	36	55 69	5	61	38	46 8	
			5	P			36 55 94		38 46 1			
			11	R			36 55 75		38 46 9			
			25	R			36 55 72		38 46 8			
			26	R			36 55 67		38 46 3			
			27	R			36 55 74		38 46 7			
		Mar	2	P			36 55 63		38 47 7			
			11	M			36 55 75		38 47 5			
			12	M			36 55 59		38 47 9			
			13	M			36 55 79		38 47 6			
239		Jan	23	R	7	37	44 52	5	128	52	45 1	8 0
			24	R			37 44 49		52 45 4	7 0		
240	81 Geminorum $\gamma$	Feb	2	S	7	38	11 35		71	9	32 3	
			28	R			38 11 35		9 33 6			
241	2971 Lacaille	Jan	19	R	7	40	16 99	4	143	54	47 6	7 5
242	T Geminorum Var 4	Jan	16	R	7	41	4 50		65	55	40 1	8 7
		Feb	23	R			41 4 50		55 41 3	7 8		
243		Jan	20	R	7	41	30 33	5	144	13	31 9	8 0
244	3013 Lacaille	Jan	21	R	7	43	27 42	3	142	0	32 0	7 0
245	49 R P L	Feb	4	R	7	43	39 66	3	5	33	32 7	
246		Jan	22	R	7	45	4 70	5	129	24	42 9	8 0
		Feb	10	R			45 4 43	5	24	41 9		

*Separate Results of Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
247	1791 Brisbane	Jan 20	R	7	46	17 14		144	21	30 2	8 0
[244] 248	3293 Taylor	Jan 19	R	7	46	29 <sup>9</sup> / <sub>16</sub>	5	144	43	55 7	8 0
249		Feb 26	R	7	48	56 74		130	25	52 8	9 1
250	1 Cancer	Feb 2	S	7	49	12 06		73	50	48 4	
251		Jan 23	R	7	49	49 23	5	129	17	12 4	8 5
		24	R		49	49 14	5		17	13 4	8 5
252		Feb 18	R	7	50	2 06	3	120	38	16 1	
253	3339 Taylor	Jan 20	R	7	51	45 8 1/2		144	16	45 2	8 0
254		Jan 19	R	7	52	52 87		114	41	30 7	9 0
255	6 Cancer	Feb 5	P	7	55	6 11		61	49	25 0	6 0
		, 14	R		55	5 90	5		49	29 4	
		, 23	R		55	5 98			49	29 8	
		, 24	R		55	6 00			49	29 3	
		, 28	R		55	5 91			49	30 2	
		Mar 2	P		55	6 17			49	30 8	
		, 11	M		55	5 93			49	30 5	
		, 14	M		55	5 96			49	30 1	
		, 17	M		55	5 95	5		49	31 0	
256	3373 Taylor	Jan 21	R	7	55	12 34		144	11	41 1	8 0
257		Jan 22	R	7	55	17 99		123	30	2 8	8 0
		Feb 10	R		55	17 96	6		30	0 6	
258		Jan 23	R	7	56	29 34		129	21	9 1	9 5
259	15 Argus $\rho$	Feb 11	R	8	1	42 63		113	54	41 2	
		12	R		1	42 64			54	41 7	
		, 14	R		1	42 67			54	41 4	
		Mar 9	M		1	42 68			54	41 2	
		12	M		1	42 71			54	42 2	
		14	M		1	42 64			54	42 0	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>					
278	33 Cancer $\eta$	Feb 2	S	8	24	46 87		69	5	46 0	
		3	R		21	46 93		5	44 8		
		25	R		24	46 94		5	47 6		
		Mar 13	M		24	46 97		5	46 3		
		14	M		24	47 00		5	46 4		
		16	M		24	46 88		5	46 1		
		18	M		24	47 04		5	47 4		
		23	R		24	46 88		5	46 5		
279	3651 Taylor	Feb 18	R	8	25	37 17		130	3	8 0	77
280		Jan 30	R	8	26	23 33	4	130	30	18 1	90
281		Feb 10	R	8	30	11 64	3	128	46	55 0	85
	17	R		30	11 78	46		56 0	83		
282	3710 Taylor	Mar 11	M	8	31	22 50		141	20	51 9	80
283		Mar 25	R	8	33	7 28		129	23	15 2	85
	26	R		33	7 25	23		14 8	88		
284	S Cancer Var 2	Jan 16	R	8	36	6 46	4	70	28	32 4	100
		Feb 11	R		36	6 26	5		28	32 6	80
		18	R		36	6 45			28	32 5	79
		Mar 24	R		36	6 40			28	32 9	80
285	3767 Taylor	Mar 4	M	8	36	16 59		140	50	2 8	85
286	47 Cancer $\delta$	Feb 3	R	8	36	53 51		71	20	42 0	
287		Mar 6	M	8	37	48 60	5	136	5	19 7	89
288	11 Hydra $\epsilon$	Feb 5	M	8	39	31 00		83	4	52 0	
		25	R		39	31 16		4	53 0		
		Mar 11	M		39	31 14		4	52 9		
		14	M		39	31 06		4	51 6		
		16	M		39	31 17		4	53 9		
		17	M		39	31 07		4	53 8		
		18	M		39	31 03		4	54 2		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
288	11 Hydra $\epsilon$	Mar 19	M	9	39	31 01		83	4	51 9	
		20	R		39	31 11		4	50 7		
		23	R		39	31 03		4	52 0		
		25	R		39	31 08		4	51 6		
		27	R		39	31 08		4	50 9		
289		Mar 26	R	8	40	27 06		129	15	20 5	8 3
290	60 R P L	Feb 27	R	8	46	8 40	3	5	16	43 0	
		Mar 5	M		16	7 80	3		16	41 2	
		, 9	M		46	9 33	3		16	42 1	
		18	M		46	9 20	3		16	41 6	
		<i>s p</i> Sep 14	M		46	8 89	2		16	40 2	
		<i>s p</i> Oct 6	M		46	8 70	2		16	44 0	
291	S Hydra Var 3	Mar 23	R	8	46	25 06	4	86	24	59 4	10 2
		24	R		46	25 27	5		24	59 7	10 2
		, 27	R		46	25 27	5		24	58 6	10 2
292		Mar 13	M	8	47	18 74		69	36	57 0	9 6
293	3886 $\gamma$ Lyra	Mar 6	M	8	48	12 00		136	52	39 3	8 0
294	T Cancer Var 3	Feb 25	R	8	48	50 46	5	69	37	45 8	9 6
		Mar 11	M		48	50 44		37	44 3	9 7	
		26	R		48	50 42		37	45 1	9 0	
295	T Hydra Var 4	Jan 16	R	9	48	59 93	4	98	37	15 5	9 7
296		Mar 16	M	8	49	11 22		132	54	6 3	7 5
297	66 Cancer $\alpha$	Jan 7	M	8	50	59 09		77	36	51 1	
		Feb 2	S		50	59 53		36	51 7		
		Mar 30	R		50	59 60		36	52 3		
298		Mar 14	M	8	51	52 86		137	24	27 1	9 7
299		Feb 23	R	8	54	18 07	5	130	34	38 2	8 9
		Mar 20	R		54	18 22		34	38 0	8 7	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>		<i>°</i>			
300		Apl 9	M	8	54	55 91		142	48	42 8	9 0
301	3941 Taylor	Apl 8	M	8	54	57 63		144	6	8 7	8 8
302		Apl 10	M	8	56	35 61	5	146	45	47 0	9 3
303		Mar 23	R	8	56	40 03	5	129	17	57 6	9 6
304		Jan 16	R	8	59	4 56		145	37	55 2	9 0
305	76 Cancri $\kappa$	Jan 7	M	9	0	19 59		78	46	56 8	
		Mar 2	P		0	19 71		46	58 5		
306		Apl 11	M	9	1	2 20		150	1	16 2	8 0
307		Feb 23	R	9	1	47 87	5	128	56	54 9	7 5
		Mar 31	R		1	47 79		56	55 2		7 9
308		Mar 24	R	9	2	12 49	3	71	26	18 8	10 5
309		Feb 24	R	9	4	21 33	5	130	29	24 9	
		28	R		4	21 60		29	21 8		9 3
310	3713 Lacaille	Apl 13	M	9	4	32 87		143	48	57 5	7 8
311		Jan 16	R	9	6	25 31	3	142	29	13 3	8 3
		Feb 11	R		6	25 01		29	12 9		8 4
312		Mar 4	M	9	6	28 79		138	41	16 6	8 9
313		Mar 3	M	9	8	12 53	5	148	14	1 3	9 0
314		Feb 25	R	9	9	21 59	2	73	52	23 0	10 2
		Mar 24	R		9	21 55	3	52	26 3		10 3
315	83 Cancri	Feb 2	S	9	11	19 96	6	71	42	58 5	
		3	R		11	19 94		42	57 2		
		5	M		11	19 76		42	56 6		
		Mar 2	P		11	20 08		42	59 4		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
315	83 Cancr	Mar 9	M	9	11	10 72	5	70	42	57 9	
		16	M		11	19 83		42	50 4		
		17	M		11	19 76		42	58 3		
		20	R		11	19 81		42	56 2		
		23	R		11	19 80		42	55 7		
		25	R		11	19 86	42	57 7			
		28	R		11	19 85	42	58 3			
		31	R		11	19 83	42	56 5			
		Apl 1	R		11	19 96	42	58 0			
316		Feb 23	R	9	11	46 21	5	130	44	53 2	
317		Jan 16	R	9	14	32 58	5	24	50	15 3	9 0
		Feb 27	R		14	32 64		50	14 1	8 7	
		28	R		14	32 63		50	13 0	9 9	
318		Apl 13	M	9	15	18 69		118	<del>13</del> 26 1	9 2	
319		Feb 11	R	9	15	49 83	5	25	4	10 3	9 0
		26	R		15	50 04		4	11 8	9 3	
320		Mar 5	M	9	16	3 99		140	7	19 9	9 0
321		Mar 4	M	9	16	15 59		139	0	47 4	9 5
322	9881 O A N	Mar 13	M	9	17	32 56		25	3	29 2	9 3
323	30 Hydræ $\alpha$	Feb 6	M	9	20	51 16	5	98	3	59 0	
		Mar 16	M		20	51 13		4	1 0		
		17	M		20	51 39		4	0 3		
		20	R		20	51 26		4	0 8		
		24	R		20	51 21		3	59 9		
		25	R		20	51 24		4	0 2		
		26	R		20	51 24		4	0 8		
		28	R		20	51 20		4	0 5		
		30	R		20	51 29		4	0 2		
		Apl 1	R		20	51 31		3	59 8		
		14	M		20	51 29		4	0 7		
		15	M		20	51 38		4	59 8		
		28	M		20	51 17		3	58 8		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observed	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
324	2 Leonis $\omega$	Mar 2	P	9	21	7 29		80	10	56 3	
325	3853 Lacaille	Mar 18	M	9	22	29 81		131	59	20	80
326		Feb 26	R	9	24	30 40	6	130	25	51 2	90
		28	R		21	30 50		25	51 6	93	
		Mar 27	R		21	30 35		25	53 3	90	
327	6 Leonis $\lambda$	Apl 7	M	9	24	36 90		79	40	51 5	60
328	3886 Lacaille	Mar 5	M	9	24	41 23	5	111	49	33 3	80
329	3897 Lacaille	Mar 4	M	9	24	53 13	3	110	0	16 9	80
330		Mar 6	M	9	26	53 60		144	57	51 3	90
331		Mar 23	R	9	28	52 41		128	46	39 2	88
332		Mar 24	R	9	28	58 85		128	49	16 2	80
333	10 Leonis	Feb 3	R	9	29	58 38		82	33	60	
		4	R		29	58 60		33	7 3		
334	4259 Taylor	Mar 7	M	9	31	55 33		138	41	31 9	50
335		Mar 25	R	9	32	25 09		129	53	36 6	87
336	69 R P L <span style="margin-left: 2em;">s p</span>	Oct 23	R	9	32	32 26	3	2	46	30 6	
337		Feb 26	R	9	33	51 36	3	129	47	11 2	82
338	14 Leonis $\sigma$	Jan 7	M	9	33	50 38	5	79	29	9 7	
		Feb 3	R		33	50 19		29	10 7		
		Mar 30	R		33	50 34		29	10 5		
		31	R		33	50 09		29	10 4		
339		Feb 24	R	9	34	41 56		130	34	22 9	
340	4280 Taylor	Mar 5	M	9	34	42 40		142	19	28 7	80



*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Light Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
311	17 Leonis ε	Feb 5	M	9	35	4 10	5	65	30	49 4	
		6	M		38	4 31		35	19 0		
		Mar 20	R	38	1 08	35		49 5			
		23	R	38	4 10	35		49 9			
		24	R	38	4 10	35		49 0			
		26	R	35	4 13	35		49 4			
		27	R	38	1 16	35		18 0			
		28	L	38	4 08	35		49 6			
		Apr 1	L	35	1 16	35		49 0			
		)	M	38	1 21	35		49 4			
		10	M	38	1 22	35		47 9			
11	M	38	1 23	35	48 7						
312	R Leonis δ 1	Feb 26	R	9	40	11 25	5	77	56	16 5	9 0
		Mar 11	M	40	11 14	6	56	15 8	9 2		
		17	M	40	10 85	56	16 5	8 9			
		25	L	40	11 20	56	16 2	7 9			
		30	R	40	11 25	56	16 3	8 2			
313		Feb 21	R	9	12	39 64	5	130	17	31 0	8 0
314		Mar 2	M	9	13	32 16		113	45	37 4	8 9
315		Mar 12	M	9	14	3 77		117	1	19 8	8 0
316		Mar 27	R	9	15	53 11		129	2	34 2	9 3
317	70 L P I	Feb 2	S	9	16	6 51	3	5	25	33 2	
		Mar 3	M	16	6 85	3	25	33 2			
		Apr 8	M	16	7 23	5	25	31 1			
		10	M	16	7 71	3	25	30 8			
		13	M	16	7 56	3	25	30 6			
		, 15	M	16	5 14	3	25	32 9			
318	4402 Taylor	Feb 26	L	9	19	50 91	5	120	17	12 3	7 0
		Mar 23	R	19	50 87	17	12 6	7 7			
319	29 Leonis π	Jun 7	M	9	52	58 26		81	18	1 0	
		Mar 3	M	52	58 33	4	18	0 8			

*Separate Results of Nadir's Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>					
349	20 Leonis $\pi$	Mar 4	M	9	52	58.33	6	81	18	03	
		24	R	52	58.33	18		00			
		27	R	52	58.29	17		59.9			
		30	R	52	58.34	18		01			
		Apl 1	L	52	58.35	18		05			
		9	M	52	58.93	17		59.8			
		11	M	52	58.23	18		01			
		13	M	52	58.27	15		05			
		14	M	52	58.30	19		11			
		27	M	52	58.31	17		59.4			
	28	M	52	58.20	17	59.7					
350		Mar 12	M	9	55	49.87		147	23	57.7	8.0
351		Mar 14	M	9	56	24.14		111	3	33.7	8.0
49 14	352	4476 Taylor	Mar 5	M	9	57 <del>48.75</del>		145	35	45.6	8.9
353	31 Leonis A	Mar 3	M	10	0	37.80		79	19	53.3	
		4	M	0	37.84	19	57.9				
354	32 Leonis $\alpha$	Feb 2	S	10	1	4.38	5	77	21	51.1	
		6	M	1	4.24	21		52.4			
		Mar 7	M	1	4.30	21		52.0			
		13	M	1	4.20	21		53.5			
		24	R	1	4.39	21		53.0			
		25	R	1	4.30	21		53			
		26	R	1	4.38	21		54.2			
		27	R	1	4.39	21		55.2			
		28	R	1	4.38	21		51.0			
		31	R	1	4.36	21		54.8			
		Apl 8	M	1	4.35	21		51.7			
		9	M	1	4.32	21		53.1			
		10	M	1	4.41	21		51.5			
		11	M	1	4.32	21		52.7			
		13	M	1	4.44	21		53.2			
14	M	1	4.38	21	53.6						
15	M	1	4.34	21	51.1						
27	M	1	4.22	21	51.7						

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Mer. altitude
				h	m	s					
354	32 Leonis $\alpha$	Apr 28	M	10	1	4 24		77	21	54 1	
		29	M		1	4 36		21	51 3		
355	4538 Laylor	Mar 26	R	10	6	1 78		129	19	7 2	
356		Mar 17	M	<del>13</del>	8	59 19		139	51	23 4	90
357	72 R P L	Mar 12	M	10	9	10 65	3	3	3	21 8	
		Apr 30	M		9	10 87	3	3	3	19 8	
		Aug 18	R		9	10 97	3	3	3	19 5	
		Nov 2	M		9	10 67	3	3	3	19 6	
358	4577 Laylor	Mar 27	R	10	9	15 10		128	36	35 7	90
		31	R		9	15 05		36	39 3		
359	11 Leonis $\gamma$	Feb 2	S	10	12	24 91		19	25	3 1	
		Mar 2	M		12	24 71		25	3 7		
		7	M		12	24 80		25	0		
		26	R		12	24 72		28	1 6		
		30	L		12	24 81		28	1 3		
		Apr 1	R		12	24 96		28	2 2		
		5	M		12	24 85		28	0 2		
		9	M		12	24 93		28	1 1		
		10	M		12	24 82		28	1 1		
		11	M		12	24 91		28	1 1		
		13	M		12	24 79		28	1 5		
		14	M		12	24 81		28	2		
		15	M		12	24 87		28	0 3		
		29	M		12	24 97		27	59 5		
		360		Mar 5	M	10		14	36 11		
361	13 Leonis	Feb 1	R	10	15	50 11		52	15	10 1	
		5	M		15	49 31		15	17 0		
362		Mar 27	R	10	16	9 40	6	129	15	55 9	90
363	44 Leonis	Apr 1	R	10	18	1 87	6	80	31	13 6	
364		Mar 12	M	10	18	43 26		116	8	10 2	97

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
					<i>h</i>	<i>m</i>	<i>s</i>					
365		Mar	3	M	10	21	50 24		146	11	31 8	8 9
366	47 Leonis $\rho$	Feb	4	R	10	25	35 64		79	55	22 7	
			5	M		25	35 49		59	50	0	
		Mar	2	M		25	35 77		59	23	3	
			30	R		25	35 71		55	23	3	
			31	R		25	35 60		59	22	7	
		Apl	1	l		25	35 81		59	24	1	
			8	M		25	35 68		59	23	1	
			10	M		25	35 67		59	05		
			13	M		25	35 75		59	25	1	
			15	M		25	35 67		59	22	5	
			16	R		25	35 60		9	22	3	
	May	1	M		25	35 61		59	07			
367		Mar	12	M	10	29	10 39		117	<del>58</del> 17 8	9 5	
368	4769 Taylor	Mar	3	M	10	30	20 20	3	146	50	56 0	6 0
369	R Ursa Majoris Var 1	Mar	13	M	10	34	53 94		20	30	25 3	6 7
			17	M		34	54 27	5	30	27 0	6 7	
			18	M		34	53 71	3	30	26 9	6 9	
			19	M		34	54 32		30	26 4	6 8	
		Apl	17	R		34	53 83	3	30	27 0	8 0	
370		Feb	2	S	10	35	19 32	5	137	19	16 0	9 5
371		Mar	9	M	10	38	44 67		144	50	1 4	8 0
372		Mar	12	M	10	41	22 73		146	22	52 8	9 0
373	53 Leonis $l$	Mar	2	M	10	42	3 14		78	13	52 2	
			31	R		42	3 24		13	51 0		
		Apl	8	M		42	3 29		43	51 3		
			16	R		42	3 23		43	50 8		
			17	R		42	3 22	5	43	51 4		
			18	R		42	3 17		43	50 1		
			28	M		42	3 17		43	53 0		
			29	M		42	3 27	3	43	50 7		

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*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			Mean Polar Distance 1863			Magnitude	
					h	m	s	°	'	"		
373	53 Leonis $\iota$	May	1	M	10	49	3 09	76	43	49.4		
			6	M		42	3 24		13	50.7		
			7	M		42	3 20		43	51.2		
374		May	6	M	10	42	34.28	141	4	7.1	9.0	
375		May	11	M	10	43	50.46	137	2	29.7	8.9	
376		Apr	15	M	10	46	0.31	111	39	32.0	7.6	
377		May	5	M	10	47	50.58	150	5	1.9	1.0	
378		May	18	M	10	47	56.36	129	28	53.1	1.0	
379	1915 Taylor	May	9	M	10	48	3.30	114	53	27.0	7.0	
380		May	11	M	10	50	13.69	141	30	10.9	8.0	
381	1955 Taylor	May	12	M	10	50	38.19	5	117	19	17.2	7.0
382	4069 Taylor	Feb	6	M	10	52	16.75	5	113	35	55.0	9.0
383		May	11	M	10	52	50.29	139	32	28.7	8.9	
384	59 Leonis $\epsilon$	May	4	M	10	53	38.48	83		47.6		
			5	M		53	<del>38.66</del>		9	49.9		
385	61 Leonis $\rho^1$	Apr	28	M	10	54	50.66	91	11	52.7	6.5	
			29	M		54	50.38		41	51.7		
386		May	9	M	10	56	59.40	145	35	22.1	9.0	
387	4576 Lacaille	May	23	R	10	57	46.14	5	129	34	13.0	8.2
388	63 Leonis $\chi$	May	7	M	10	57	56.96	91	55	26.6		
			Apr	1	P		57	57.06		55		26.2
			17	R		57	56.84		55	26.8		
			18	R		57	56.94		55	26.8		
			23	R		57	56.66		55	27.0		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
					h	m	s					
388	63 Leonis $\chi$	May	2	M	10	57	56.85	1	81	55	26.7	
			9	M		57	56.84		55	24.6		
			12	M		57	56.88		55	27.1		
389		Mar	6	M	10	58	9.40	5	140	58	54.6	9.5
390	65 Leonis $\rho^3$	Mar	4	M	10	59	55.01		87	18	6.0	
391		Mar	12	M	11	0	34.00		147	13	24.8	9.5
392	5092 Taylor	Apl	11	M	11	5	16.22		143	48	46.3	8.7
393	68 Leonis $\delta$	Mar	2	M	11	6	49.06		68	13	39.5	
		Apl	16	R		6	49.02		43	3	5	
			23	R		6	48.99		13	35.6		
			27	M		6	49.12		13	35.2		
			30	M		6	49.11		43	34.7		
		May	1	M		6	48.96		13	33.9		
			2	M		6	48.98		43	34.4		
			6	M		6	49.02		13	33.8		
			7	M		6	49.07		13	33.0		
			12	M		6	49.05		13	34.3		
			15	M		6	49.07		43	31.9		
394		Apl	9	M	11	7	4.51	3	145	39	5.0	8.8
395		Mar	11	M	11	8	31.38	5	150	50	30.5	7.9
			23	R		8	31.28		50	32.6	8.8	
396		Mar	9	M	11	9	26.23		145	54	54.6	10.0
397		Mar	12	M	11	9	36.60		147	10	51.2	9.0
398	74 Leonis $\phi$	Feb	5	M	11	9	41.54		92	54	13.0	
			6	M		9	41.89		54	11.6		
		Apl	1	P			41.93		54	13.1		
			28	M			41.66		54	<del>11.6</del>		
399		Mar	6	M	11	10	29.26		141	8	15.3	10.0

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
					h	m	s					
411	91 Leonis $\nu$	Mar	5	M	11	29	56 07		90	4	49	
			6	M		29	56 22			4	46	
		Apr	1	P		29	56 23		4	48		
			16	R		29	56 08		4	45		
			29	M		29	56 04		4	29		
		May	30	M		29	56 01		4	39		
			4	M		29	56 01		4	27		
			6	M		29	56 03		4	33		
			7	M		29	55 94		4	16		
			8	M		29	56 03		4	55		
			9	M		29	56 11		4	23		
			11	M		29	56 07		1	10		
	12	M		29	56 06	4	51					
412		Mar	14	M	11	3'	6 37	5	144	11	11 0	8 0
413		Mar	30	R	11	33	51 38	5	127	48	55 5	8 4
414		Apr	11	M	11	34	17 41		144	20	21 7	7 9
415		Mar	13	M	11	36	0 31		139	39	56 1	7 9
416	5384 Taylor	Feb	5	M	11	36	59 90	5	151	43	17 3	6 0
417		Apr	9	M	11	38	6 44	5	149	38	28 8	9 3
418		Mar	26	I	11	38	39 13	5	129	33	11 2	9 2
		Apr	17	R		38	39 00			33	12 9	
419		Mar	28	R	11	41	5 95	5	126	30	4 9	9 2
420		Mar	24	R	11	41	9 27		129	31	45 2	5 3
		25	R		41	9 29	31			44 1	8 3	
421	91 Leonis $\beta$	Apr	23	R	11	42	4 21	5	71	33	45 1	
		May	4	M		42	4 12			9	46 6	
			8	M		42	4 19			39	4 5	
			11	M		42	4 09			39	45 1	
			12	M		42	4 21			39	45 0	
	15	M		42	4 19	39	43 6					

## Separate Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Mer. altitude
				h	m	s					
422		Apl 10	M	11	43	5 22		143	44	54 7	93
123	5127 Tylor	Feb 6	M	11	41	2 10		94	34	18 4	60
		Apl 29	M		44	2 07			54	17 5	60
		30	M		41	1 91			81	18 5	60
121		Mar 30	R	11	44	41 15		129	2	19 6	82
125	5133 Tylor	Mar 23	R	11	44	48 42		129	32	11 1	77
		27	R		44	48 39			32	40 5	78
126		Apl 13	M	11	45	45 58		112	30	41 1	94
427		Mar 28	R	11	49	53 93	5	125	5	5 2	
125		Mar 30	R	11	51	20 73	5	128	52	13 9	87
129		Apl 11	M	11	51	33 60		141	12	35 0	90
430		Mar 23	R	11	53	17 10	5	120	35	29 0	97
		27	R		53	17 13	5		35	29 0	97
131		May 16	R	11	56	20 43	5	128	29	37 2	90
432	5531 Tylor	Apl 10	M	11	56	46 47		143	56	59 0	80
133	4951 Calle	Apl 15	M	11	56	51 02		112	44	6 0	73
144	89 R I I	Mar 20	R	11	57	48 27	2	3	39	15 0	
		21	R		57	48 23	3		39	15 3	
		24	R		57	48 05			9	11 7	
		25	R		57	48 16	3		39	15 0	
		31	R		57	47 95	3		39	15 0	
		Apl 23	R		57	48 30	3		39	<del>15 0</del>	
		May 2	M		57	48 21	3		39	<del>15 0</del>	
		Oct 1	I		57	48 36	3		39	11 3	
		Nov 1	M		57	48 16	5		39	12 0	
		11	M		7	47 56	3		39	10 0	
435		Mar 30	R	11	58	58 32		128	27	25 6	80



*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Height Ascension 1863			No of Wires	Mean Polar Distance 1863			Mer. altitude
				h	m	s		1	2	3	
436		Apl 14	M	11	59	11 35		111	15	51 2	80
437		Mar 27	R	12	1	33 96	5	130	1	111	90
438	5041 Lacaille	Apl 9	M	12	2	29 66		141	22	52 4	82
439		Feb 6	M	12	2	34 21	3	141	5	17 7	90
440	2 Corvise	Apl 16	R	12	3	5 01		111	51	26 7	
		May 8	M		3	4 35			51	25 5	
		9	M		3	4 95			51	26 1	
		11	M		3	4 92			51	29 1	
		16	R		3	1 96	5		51	27 6	
441		Apl 11	M	12	3	35 27		145	56	41 2	90
442		Apl 28	M	12	5	14 87	5	134	7	45 7	80
443		Mar 20	R	12	5	59 86	5	130	10	45 5	95
444		Apl 13	M	12	6	9 37		138	27	11 7	80
445		Apl 15	M	12	6	26 01	5	142	50	19 1	91
446	5613 Taylor	Mar 31	R	12	7	52 <del>61</del> <sup>33</sup>		130	22	25 7	72
447	69 Ursæ Majoris δ	Mar 27	R	12	8	37 87		32	12	23 3	
		30	R		8	37 84			12	21 5	
		Apl 10	M		8	38 04			12	21 6	
448		Apl 14	M	12	9	46 95		144	19	53 0	80
449	15 Virginis γ	Apl 30	M	12	12	53 87		89	54	19 1	
		May 15	M		12	53 78			54	19 3	
		16	R		12	53 85			54	19 0	
		18	R		12	53 79			54	19 6	
450		Apl 9	M	12	11	0 35		143	14	28 3	96
451	5119 Lacaille	Mar 6	M	12	15	18 51	5	138	33	54 9	90

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Polar Ascension 1863			No of Wires	Mean Polar Distance 1863			Azimuth
				h	m	s					
12		Apr 9	M	12	13	13 71		141	39	31 0	5
13		Apr 11	M	12	16	42 61		117	9	26 1	89
14		Apr 15	M	12	15	33 17		113	20	47 8	100
455		Mar 27	R	12	18	57 33	5	129	43	26 9	93
156		Mar 17	M	12	18	59 07	5	117	20	59 3	78
157		Apr 13	M	12	19	<del>13 30</del>		144	3	50 2	79
158		Apr 28	M	12	19	49 79		124	12	47 8	85
159		Apr 14	M	12	20	42 62		111	18	58 0	78
160	57° Taylor	Mar 7	M	12	21	6 95		145	35	21 1	70
461	21 Virgins $\eta$	Apr 10	M	12	26	12 17		98	41	45 0	55
		11	M		26	42 19		41	45 4		55
162	9 Corvi $\beta$	Apr 1	M	12	27	11 59		112	38	20 3	
		May 11	M		27	11 73		38	20 1		
		15	I		27	11 65		38	19 6		
		June 1	M		27	11 68		38	18 7		
		9	M		27	11 79		38	20 0		
163		Apr 11	M	12	27	46 22		140	55	11 2	90
164		Apr 13	M	12	0	17 53		112	19	22 1	90
465	R Virgins $\nu$ 2	Apr 23	I	12	31	32 89		82	15	27 7	88
		May 1	M		31	32 81		15	27 2		92
		7	M		31	32 78		15	27 2		92
466		May 21	R	12	31	48 89	5	81	30	11 7	93
467	26 Virgins $\chi$	Mar 6	M	12	32	10 66		97	14	28 5	
		7	M		32	10 63			14	27 3	

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## Separate Results of Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s					
467	26 Virginis $\chi$	Apl 30	M	12	32	10 73	5	97	14	27 7	5 0
		May 1	M		32	10 2		14	26 2	5 0	
		, 28	P		32	10 65		14	28 3		
468		Apl 15	M	12	32	46 05		143	7	21	9 0
469		Apl 9	M	12	33	43 61		145	33	10 0	6 9
470	5850 Taylor	Apl 8	M	12	34	23 55		114	0	34 8	7 8
471	29 Virginis $\gamma^1$	May 26	R	12	34	43 09		90	41	49 0	
472	S Ursa Majoris $\nu$ 2	May 20	R	12	37	<del>54 71</del>	3	28	9	19 6	6 5
473	5863 Taylor	Apl 11	M	12	38	18 48		143	51	43 8	7 5
474		Apl 13	M	12	41	36 48		141	49	14 8	8 8
475		Apl 9	M	12	42	20 72		147	18	24 6	9 0
476		Apl 15	M	12	42	44 02		142	51	35 8	8 9
477		Apl 14	M	12	42	47 52		139	24	55 7	9 0
478		Apl 16	R	12	43	13 93	5	129	7	30 6	8 9
479	40 Virginis $\psi$	Mar 6	M	12	47	14 00		98	47	39 0	
		Apl 30	M		47	13 84		47	38 5	5 0	
480	99 R P L	May 26	R	12	48	10 25	2	5	50	34 5	
		Oct 17	R		48	9 91	2	50	<del>33 6</del>		
481		Apl 8	M	12	49	20 13		145	33	53 6	8 0
482	12 Can Ven $\alpha$	May 16	R	12	49	36 74	5	50	56	29 0	
		19	R		49	36 77		56	28 9		
		20	R		49	36 77		56	28 2		
		21	R		49	36 75		56	29 8		
		27	R		49	36 79		56	28 8		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>					
453	5974 Taylor	Apl 9	M	12	01	00 95		113	38	16 2	8 9
484		Apl 10	M	12	50	4 14	5	140	23	43 8	8 9
		13	M		03	4 40		23	44 1	7 9	
450		Apl 27	M	12	53	22 37		135	41	7 9	8 0
456		Apl 14	M	12	54	31 52		130	18	3 3	9 2
487		Apl 20	M	12	56	50 17		123	24	51 4	8 3
488	5381 Lacaille	Apl 23	R	12	57	4 42		129	56	47 9	7 8
489	51 Virginis $\theta$	Apl 1	M	13	2	51 29		94	48	26 1	
		May 20	R		2	51 00		18	24 3		
		26	R		2	51 56		18	24 4		
		27	R		2	01 19		48	25 2		
		30	R		2	51 15		15	24 8		
4592	6057 Taylor	Mar 7	M	13	3	43 02		149	11	25 0	6 0
491		Apl 15	M	13	4	26 48	5	138	10	13 4	9 2
492		Apl 11	M	13	4	32 00		143	12	0 9	9 5
493		Apl 29	M	13	5	33 90		124	16	11 8	8 9
491	W Virginis Var 1	May 21	R	13	6	51 06		100	49	35 5	8 8
		22	R		6	51 03		49	34 7		
495		Apl 14	M	13	7	35 75		139	45	53 0	9 0
496		Apl 23	R	13	9	42 08	6	120	55	57 0	8 7
497	58 Virginis	May 28	R	13	10	16 63		99	49	23 5	
		29	R		10	16 62	49	23 6			
498	6129 Taylor	May 16	R	13	12	9 65		130	28	12 3	7 4
499		May 1	M	13	12	40 63		122	56	14 5	7 9

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1860			No of Wires	Mean Polar Distance 1863			Azimuth
				h	m	s					
500	5003 Laculle	May 20	R	13	14	5 50	5	120	23	321	80
501		Apl 11	M	13	1	43 91		115	12	319	90
502	67 Virginis $\alpha$	Mar 7	M	13	17	50 68		100	26	129	
		May 1	M		17	58 61			26	112	
		2	M		17	58 06			26	42 1	
		5	M		17	58 62			26	132	
		16	R		17	58 70			26	43 2	
		20	I		17	58 76			26	1 5	
		June 1	M		17	58 69			26	1 5	
		3	M		17	58 80			26	12 2	
5	M		17	58 64			26	4 6			
503	12672 O A S	May 6	M	13	19	17 43		116	56	50	102
504	5516 Lacaille	Apl 14	M	13	19	37 16		143	27	90	90
1735	505	103 R P L <i>sp</i>	Dec 7	M	13	20 <del>18 58</del> <sup>17 35</sup>	5	4	31	416	
506	P Hydræ Var 1	Apl 15	M	13	22	10 96		112	4	20 4	67
		16	R		22	13 87			4	11 5	
		29	M		22	1 99			31	15 8	65
		May 7	M		22	13 82			31	19 5	70
507	76 Virginis <i>h</i>	Mar 7	M	13	25	45 32		100	27	308	
		May 1	M			52			27	2 7	0
		2	M			1 9			27	29 6	
508	S Virginis Var 6	Apl 13	M	10	25	50 99		9	20	2 5	75
		14	M		25	0 3			20	21	76
		23	I		25	0 90			20	2 6	71
		May 5	N		25	50 61			20	21 7	73
509	79 Virginis 3	Apl 1	M	13	27	42 4		69	50	10 1	
		May 15	I		27	12 61			50	40 7	
		19	I		27	42 10			3	40 1	
		20	R		27	1 55			50	30 2	
		21	I		27	12 60			53	39 5	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s					
509	7) Virginis $\delta$	May 22	R	13	27	42 92	5	89	53	39 5	
			R	27	42	89		53	40 7		
			R	27	42	90		53	39 6		
		June 1	M	27	12	76		53	38 7		
			M	27	42	77		53	35 9		
			M	27	42	99		53	10 0		
		10	M	27	12	76	3	10 7			
510		Apr 17	R	13	32	51 55	5	129	1	18 1	7 6
511	63(3) Taylor	Apr 15	M	13	30	31 55	5	117	33	9 7	5 0
512		May 28	R	13	37	27 78		125	39	58 6	1 0
513		May 7	M	13	38	10 39	5	122	16	11 1	8 6
514		May 21	R	13	10	26 82	5	129	23	13 2	9 3
515	51(3) Lalonde	Apr 23	R	13	12	15 15	5	61	57	27 1	1 5
			M	12	10	27		7	25 8	9 0	
		May 1	M	12	10	06		57	25 7	1 3	
516	59 Virginis	May 20	R	13	12	25 83	5	107	27	1 1	
			R	12	25	81		27	0 2		
517		May 5	M	13	13	10 81		123	5	11 3	8 3
518		May 20	R	13	41	11 11		127	56	26 1	9 0
519		May 28	R	13	15	11 85		126	22	17 0	9 7
520		Apr 20	M	13	15	39 03	5	122	51	12 5	8 5
			M	45	38	53		54	15 7	8 0	
521	81 Bootis $\eta$	May 5	M	13	18	9 60	5	70	54	1 6	
			R	18	9	60		54	52 8		
		21	R	46	9	12		54	51 7		
			R	18	9	63		54	51 7		
		June 1	M	18	9	58		54	51 3		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
532	16 Bootis $\alpha$	June 10	M	14	9	24.79		70	6	12.0	
		11	M		9	24.74		6	10.6		
		18	R		9	24.84		6	11.5		
533	100 Virginis $\lambda$	Apl 28	M	14	11	41.69		102	44	18.6	
		May 2	M		11	41.83		14	19.1		
		June 27	R		11	42.01		44	19.4		
534		May 8	M	14	12	26.89	5	136	49	32.4	93
535		Apl 30	M	14	14	30.90	3	122	35	29.6	89
536		May 9	M	14	15	15.99		122	11	16.7	
537	6709 Taylor	May 7	M	14	15	55.15	6	119	3	2.1	70
538		May 1	M	14	17	21.04		123	13	6.2	99
539	6740 Taylor	Apl 29	M	14	19	1.39		133	42	35.0	76
540		Apl 30	M	14	21	53.94		122	33	43.7	87
541	5962 Lacaille	May 18	R	14	22	38.49	5	129	46	28.6	80
542		May 8	M	14	23	38.57	5	136	54	8.5	80
543		May 4	M	14	24	9.13		123	45	17.8	80
41	25 Bootis $\rho$	May 20	R	11	25	55.17		59	1	32.7	
		22	R		25	55.58		1	33.1		
		June 2	M		25	55.10		1	33.1		
		3	M		25	55.1		1	32.7		
		9	M		25	55.5		1	35.1		
		18	R		25	55.45		6	1	33.7	
545		May 1	M	11	26	10.04		123	19	15.2	95
546		May 15	M	14	29	23.02		124	55	13.1	78
547	6027 Lacaille	Apl 30	M	14	31	0.63	5	122	47	2.2	77

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
548	R Bootis $\gamma$ 1	May 16	R	14	31	9 08		62	40	3 0	7 4
		18	R		31	9 00		40	3 3		
		27	R		31	9 02		40	3 0	9 0	
549		May 7	M	14	32	38 73		121	44	2 6	7 6
550	6848 Gaylor	May 8	M	14	32	44 22		136	41	2 4	7 7
551	5 Libræ	May 11	M	14	38	24 82		101	52	48 4	
552	36 Bootis $\epsilon$	May 22	R	14	39	0 12	5	62	20	15 0	
		26	R		39	0 08		20	17 7		
		June 9	M		39	0 16		20	15 1		
		10	M		39	0 23		20	18 0		
		18	R		39	0 00		20	48 1		
553		May 15	M	14	39	16 66		124	9	20 8	7 7
554	27022 Lalande	May 4	M	14	43	10 41		75	50	9 3	7 5
		5	M		43	10 44		50	9 7		
		6	M		43	10 44		56	5 0		
		18	R		43	10 41		50	10 4		
555	9 Libræ $\alpha$	Apl 1	M	14	13	18 11	5	105	28	13 0	
		May 2	M		13	18 15		25	13 2		
		June 20	R		13	18 14		25	13 2		
		July 10	M		43	18 21		25	12 0		
556	27123 Lalande	May 7	M	11	17	19 89		109	27	7 4	7 8
		8	M		17	20 04		27	7 5	7 8	
		9	M		47	20 02		27	5 9		
		27	R		17	20 09		27	7 9	9 0	
557		May 15	M	11	51	31 68	5	123	12	29 6	8 1
558		May 8	M	11	57	38 39		131	30	27 2	8 3
559	43 Bootis $\psi$	May 29	R	14	58	34 52	5	62	31	0 1	
		June 10	M		58	34 56		30	59 2		



*Separate Results of Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s					
559	13 Bootis $\psi$	June 11	M	14	58	34 54		62	30	59 8	
		July 10	M		58	34 45		30	58 4		
		11	M		58	34 53		30	58 6		
560	7079 Taylor	May 11	M	15	3	16 26		123	7	11	
561		May 15	M	15	3	30 06		122	18	27 9	8 5
562	21 Librae $\epsilon^1$	May 4	M	15	4	20 09		109	16	11 3	5 6
		30	R		4	20 08		16	11 6		
563	111 R P L	May 9	M	15	5	51 04	5	5	31	9 1	
		Dec 12	M		5	51 46	3		31	8 0	
564		May 27	R	15	6	39 40	5	130	26	16 1	8 9
565	27 Librae $\beta$	May 23	R	15	9	38 57		98	52	30 6	
		29	R		9	38 26		52	30 0		
		June 11	M		9	38 32		52	29 9		
		20	R		9	38 26		4	52	31 2	
		26	R		9	38 19		52	30 0		
27	R		9	38 17	52	29 0					
566		May 21	R	15	11	47 26		130	23	46 9	9 2
567		May 15	M	15	11	8 23		123	7	17 9	9 2
568	S Serpentis Var 3	May 27	R	15	15	11 94	4	75	11	28 9	10 3
569		May 20	R	15	20	19 71		130	8	21 5	9 0
70	32 Librae $\epsilon^1$	May 11	M	15	20	32 04		106	14	11 0	
		30	R		20	32 11		14	9 4		
571		May 28	R	15	21	37 08		129	25	17 1	9 0
572	7220 Taylor	June 2	M	15	22	28 50		123	6	20 8	7 9
573	111 R P L	Dec 15	M	15	2	52 68	3	2	14	49 8	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude	
				h	m	s						
574	7210 Taylor	May 21	R	15	24	20 21		130	1	161	78	
575		May 15	M	15	24	56 73		122	43	214	79	
576	5 Coronæ Borcalis α	May 23	R	15	28	53 12	5	61	49	212		
		June 27	R		28	53 23		49	202			
		July 10	M		28	53 33		49	192			
577		May 20	R	15	28	55 03		119	<del>33</del> 51 9	88	— 37 34 4	
578		May 28	R	15	30	6 00		129	33	117	93	
579	43 Libræ κ	May 4	M	15	31	3 55		109	13	517	50	
580		May 18	L	15	31	46 79		199	1	161	53	
581	XV 704 W B D	May 15	M	15	37	12 38	5	92	34	339	70	
		16	R		37	12 47		34	378	85		
		20	R		37	12 44		34	387	97		
582	24 Serpentis α	May 23	R	15	37	31 29		83	8	276		
		June 20	R		37	31 28		8	279			
		26	R		37	31 26		8	275			
		27	R		37	31 27		8	269			
		July 10	M		37	31 23		8	263			
		13	M		37	31 19		8	267			
583	28787 Lalande	May 27	R	15	42	3 02		92	43	125	87	
		29	R		42	2 82		43	127			
		June 9	M		42	2 84		48	114	80		
584	R Corona Bor Var 1	May 20	R	15	42	55 73	4	61	25	168	78	
		June 10	M		42	55 89		25	170	70		
585	R Serpentis Var 2	May 16	R	15	44	22 70		74	26	<del>270</del>	94	— 54 9
586	40 Libræ θ	June 27	R	15	46	1 66	1	106	19	275		
587		June 1	M	15	50	59 16		113	45	38	70	

*Separate Results of Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magn. tude
				<i>h</i>	<i>m</i>	<i>s</i>					
588	7 Scorpii $\delta$	June 27	R	15	52	11 19	1	112	13	43 1	
589	7439 Taylor	May 20	R	15	54	22 01	5	126	11	53 8	8 0
590	8 Scorpii $\beta^1$	Apl 28	P	15	57	28 62	5	109	20	38 6	
		May 21	R		57	28 56		20	39 0		
		30	R		57	28 53		20	38 2		
		June 26	R		57	28 10		20	39 3		
		July 13	M		57	28 14		25	38 1		
		11	M		57	28 53	25	38 1			
591	29391 Lalande	May 2	I	16	1	45 42		102	41	12 9	
		29	R		1	45 10		41	13 6		
		July 13	M		1	45 12		11	14 0	7 0	
		14	M		1	45 52		11	13 1	7 0	
592	116 R P L <i>sp</i> <i>sp</i>	June 30	R	16	4	55 30	3	4	18	37 2	
		Nov 21	P		4	55 12	3	18	33 8		
		26	R		4	55 76	3	18	36 8		
593	$\lambda$ VI 83 W B E	May 30	R	16	5	59 73	1	102	40	55 2	
594	1 Ophiuchi $\delta$	July 16	R	16	7	10 31		93	20	20 9	
595	29610 Lalande	May 29	R	16	8	6 62	5	100	32	21 2	
596	R Scorpii $\nu$ 1	Apl 28	P	16	9	29 13	2	112	36	12 2	10 5
		May 1	P		9	29 32		36	11 3	10 3	
		2	P		9	29 26		4	36	11 1	10 3
		16	R		9	29 55		3	36	15 1	10 7
597		July 18	R	16	9	39 76	4	112	33	22 5	10 0
598	20 Scorpii $\sigma$	June 1	M	16	12	52 00		115	15	37 9	
599	1552 O A S	May 30	R	16	13	10 71	4	107	21	51 8	9 0
600		June 2	M	16	14	7 95		116	10	55 2	7 5
601	U Scorpii $\nu$ 1	May 21	R	16	14	37 03	5	107	33	7 1	
		23	R		14	37 15	1	33	5 7		

## Separat Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
602		May 20	R	16	15	42.36	6	128	7	31.7	9.5
603	15607 O A S	June 11	M	16	16	48.38	5	107	11	21.1	9.0
		30	R		16	45.17		11	19.7		
		July 13	M		16	48.13		14	20.0		9.0
604		May 28	R	16	17	50.30	5	129	30	26.0	9.2
605	21 Scorpii α	Apl 28	P	16	21	0.81	5	116	7	29.2	
		May 1	P		21	0.69		7	25.1		
		2	I		21	0.70		7	27.6		
		4	M		21	0.73		7	27.6		
		5	M		21	0.68		7	28.0		
		July 13	M		21	0.70		7	27.9		
		14	M		21	0.60		7	26.1		
606	23 Scorpii τ	May 4	M	16	27	21.69		117	55	42.2	
		5	M		27	21.37		55	11.8		
607	5784 Brisbane	July 20	R	16	30	49.55	1	100	39	19.7	9.5
608		June 2	M	16	34	32.13		131	6	51.5	7.8
609	40 Hercules β	May 2	P	16	36	7.11	6	58	8	51.2	
		July 11	M		36	7.32		8	<del>47.2</del>		
		16	R		36	7.20		8	50.9		
		13	R		36	7.25		8	50.6		
		Aug 3	M		36	7.30		8	52.5		
610	15952 O A S	May 20	I	16	39	18.72	6	111	50	24.7	9.2
611	S Hercules Var β	May 2	P	16	45	39.77		74	49	32.0	8.0
		June 3	M		45	39.67		49	31.1		7.9
		9	M		45	39.60		49	32.6		7.8
612		May 5	M	16	48	49.65	5	125	31	11.1	8.0
613	27 Ophiuchi κ	June 4	M	16	51	10.94		80	21	33.6	
		23	R		51	11.04		21	35.0		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
613	27 Ophiuchi κ	June 30	R	16	51	10 91	3	80	24	33 2	
		July 14	M		51	11 09		24	33 9		
		16	R		51	10 97		24	34 1		
		20	R		51	11 01		24	34 4		
		28	R		51	11 06		24	33 6		
		Aug 12	R		51	11 00	5	24	34 4		
614		June 2	M	16	52	11 0		122	48	45 1	8 2
615	16283 O A S	July 29	R	16	53	55 13	5	110	23	27 8	8 0
616	16288 O A S	June 1	M	16	56	24 05		119	50	1 1	7 5
617	792b Faylo	July 11	M	16	59	41 77		136	50	57 9	8 0
618	61 Hercules α	May 1	L	17	8	24 17	2	75	27	41	
		2	L		8	21 34		27	4 8		
		June 29	R		8	24 01		27	4 7		
		July 1	M		8	23 90		27	3 7		
		18	R		8	24 01		27	3 8		
		23	R		8	24 02		27	5 0		
		28	R		8	24 07		27	4 2		
		Aug 3	M		8	23 96		27	3 7		
		12	M		8	21 05		27	3 7		
		54 54 (61)		June 3	M	17		8	<del>56 56</del>	5	
620	12 Ophiuchi θ	June 1	M	17	13	35 93	5	114	51	32 1	
		2	M		13	35 91		51	33 2		
		July 1	M		13	35 83		51	31 8		
		13	M		13	35 83		51	31 8		
		18	R		13	35 86		51	32 6		
		20	R		13	35 92		51	32 0		
		23	R		13	35 78		51	34 5		
		Aug 3	M		13	35 78		51	32 9		
		7	M		13	35 84		51	31 9		
		621	11 Ophiuchi β	June 1	M	17		18	0 39	5	
2	M				18	0 27	2	44 0			

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wines	Mean Polar Distance 1863			Magnitude
				h	m	s					
622	45 Ophiuchi $\delta$	May 5	M	17	18	36 0		119	41	21 7	
623	—Arae $\delta$	July 29	R	17	18	11 27		100	33	53 2	
624		July 20	R	17	29	21 06		125	11	36 6	8 7
		Aug 3	M		29	21 17			14	34 7	8 9
625	55 Ophiuchi $\alpha$	May 1	P	17	28	34 65		71	20	15 3	
		June 29	R		28	34 43			20	16 9	
		July 1	M		28	34 45			20	16 1	
		23	R		28	34 52			20	16 9	
		28	R		28	34 47			20	16 8	
626		Aug 24	R	17	34	30 41	3	126	15	2 1	10 2
627	58 Ophiuchi	June 29	R	17	35	13 26		111	36	16 9	
		30	R		35	13 18			36	46 5	
628		Aug 12	M	17	39	29 41	6	127	21	33 1	8 5
629		June 3	M	17	39	51 70	5	126	28	18 6	8 0
630		June 29	R	17	43	16 46		128	36	10 7	7 7
631		July 20	R	17	44	58 68	4	128	47	40 0	9 0
632	7504 Lacaille	June 10	M	17	48	28 07	5	129	6	46 9	7 0
633		June 29	R	17	50	20 57	5	130	50	17 6	8 7
634	4 Sagittarii $\beta$	May 5	M	17	51	25 71		113	48	0 0	5 0
		Aug 24	R		51	25 53			47	59 4	
635	—Sagittarii $\gamma$	June 3	M	17	56	16 20	4	119	34	56 7	
636		Aug 24	R	18	2	45 05	6	131	44	29 9	9 0
		28	M		2	45 30	4		14	28 9	9 0
637		Aug 27	R	18	4	45 03	4	120	43	36 2	10 5

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
638	13 Sagittarii $\mu^1$	May 5	M	18	5	34 20	5	111	5	28 4	
		June 2	M		5	34 24			5	27 9	
		3	M		5	34 18			5	27 4	
		29	R		5	34 18			5	28 4	
		July 29	R		5	34 17			5	30 7	
		Aug 3	M		5	34 19	4	5	27 6		
		12	M		5	34 09		5	27 5		
		15	M		5	34 13		5	28 3		
		Sep 4	M		5	34 14	5	5	28 2		
		639		June 10	M	18	6	1 14		122	
640	23 Ursæ Minoris $\delta$ s p	Jan 9	M	18	16	32 55	3	3	23	46 4	
		s p	10	M		16	33 23	3	23	46 8	
		s )	19	R		16	32 51	3	23	46 5	
		s p	20	R		16	32 52	3	23	46 5	
		p	Feb 3	R		16	32 41	2	23	47 5	
		s p	9	R		16	31 89	3	23	49 1	
		s p	11	R		16	32 02	3	23	48 0	
		s p	17	R		16	32 86	3	23	47 3	
		s p	Mar 2	R		16	31 99	3	23	50 9	
		641	22 Sagittarii $\lambda$	June 3	M	18	19	30 91		115	
642	—Telescopii $\delta$	Aug 24	R	18	21	53 73		135	50	49 0	
643		Aug 24	R	18 <sup>h</sup>	28	12 72	5	135	34	34 5	8 9
644	3 Lyrae $\alpha$	July 2	M	18	32	17 92		51	20	30 6	
		3	M		32	17 91			20	31 1	
		20	R		32	17 92			20	31 9	
		Aug 12	M		32	18 06			20	31 6	
		15	M		32	17 94			20	32 3	
		Sep 4	M		32	17 90			20	32 4	
645		July 10	M	18	35	44 43		137	11	3 4	7 5
		Aug 22	R		35	44 54			11	5 1	9 2
		24	R		35	44 28			11	3 3	9 2
		26	R		35	44 58			4	11	4 8

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
646	7872 Lacaille	Aug 27	R	18	42	15 77		136	<del>48</del> 70		0 3
647	7878 Lacaille	Sep 8	M	18	42	48 83		136	41	13 0	0 5
648	10 Lyræ $\beta$ Var 1	July 2	M	18	45	1 26		56	17	39 7	
		3	M		45	1 26			47	40 2	
		Aug 26	R		45	1 19			17	11 1	
		Sep 12	M		45	1 30	5		47	11 2	
649		Sep 15	M	18	46	49 55	4	137	44	59 3	8 0
650	18 Lyræ Var 2	July 31	R	18	51	9 74	5	46	13	59 1	
651		Aug 22	R	18	51	58 59		149	55	55 2	9 3
652	39 Sagittari $\sigma$	June 30	R	18	56	28 18		111	56	19 1	
		July 1	M		56	28 30			56	18 1	
653	17 Aquilæ 3	July 2	M	18	59	6 81		76	20	14 6	
		3	M		59	6 57			20	16 6	
		Aug 22	R		59	6 71	4		20	15 9	
		26	R		59	6 69			20	16 8	
		, 28	M		59	6 68			20	16 4	
		Sep 12	M		59	6 62			20	16 8	
		Sep 15	M		59	6 75			20	15 2	
654	131 R P L <i>s p</i>	Jan 24	R	18	59	10 74	3	3	28	5 1	
		Mar 12	M		59	10 15	2		28	3 7	
655	R Aquilæ Var 2	July 31	R	18	59	46 23	4	81	58	30 2	9 3
656	41 Sagittari $\pi$	June 30	R	19	1	36 73		111	14	16 6	
		Aug 24	R		1	36 80			14	16 5	
657		July 13	M	19	3	1 64		139	22	47 1	8 0
658	T Sagittari Var 3	July 31	R	19	8	19 78	5	107	12	28 4	8 9
		Aug 3	M		8	19 78			12	27 8	
		12	M		8	19 87	4		12	28 0	8 7
		24	R		8	19 65	5		12	29 3	9 4

45 69



## Separate Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°			
659	R Sagittarii Var 1	Aug 26	R	19	8	39 23		109	32	44 1	8 7
		Sep 15	M			8 39 22			32	43 4	9 1
660		July 31	R	19	9	56 41	5	107	9	47 9	8 3
		Aug 3	M			9 56 44	6		9	47 5	
		24	R			9 56 43	5		9	42 7	8 5
661		July 10	M	19	9	59 69		146	13	2 1	8 0
662	20 Aquilæ $\omega$	July 3	M	19	11	23 16		78	38	57 7	
		Aug 22	R			11 23 08			38	57 8	
		28	M			11 23 11			38	56 8	
		Sep 4	M			11 23 12			38	57 3	
		12	M			11 23 08			38	57 5	
663	44 Sagittarii $\rho^1$	June 4	M	19	13	43 45	4	108	6	6 5	
		July 29	R			19 13 43 46			6	7 7	
664	40 Sagittarii $\rho^2$	Aug 24	R	19	13	51 24	5	108	33	32 8	
665	30 Aquilæ $\delta$	July 2	M	19	18	35 37		87	9	19 4	
		Aug 27	R			18 35 29			9	21 1	
		Sep 14	M			18 35 41			9	20 3	
		, 15	M			18 35 23	2		9	20 9	
666	8950 Taylor	July 10	M	19	22	3 94	5	143	28	11 1	6 0
667	52 Sagittarii $\eta^2$	July 31	R	19	28	21 89		115	10	57 8	
		Aug 24	R			28 21 96			10	57 8	
668	8173 <i>Lacaille</i>	July 10	M	19	31	32 04	5	143	15	37 3	
669	R Cygni Var 3	Aug 22	R	19	33	10 30	4	40	4	55 5	10 3
670	56 Sagittarii $f$	June 3	M	19	38	22 08		110	5	<del>31</del>	
671	50 Aquilæ $\gamma$	Aug 24	R	19	39	44 61		79	43	5 8	
		27	R			39 44 65			43	6 4	

## Separate Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				<i>h</i>	<i>m</i>	<i>s</i>					
672	50 Aquilæ $\gamma$	Aug 28	M	19	39	44.63		79	43	5.7	
		Sep 4	M	39	44	70		43	3.0		
		8	M	39	44	63		43	0.6		
672	53 Aquilæ $\alpha$	Aug 24	R	19	44	5.86	5	81	29	28.2	
		Sep 14	M	44	5	86		29	27.9		
673	—Cygni $\chi$ Var 2	July 31	R	19	45	17.88	5	57	25	51.3	5.7
674	55 Aquilæ $\eta$	Aug 22	R	19	45	29.00		89	20	37.1	5.0
		28	M	45	29	49		20	36.0	5.0	
675	60 Aquilæ $\beta$	Aug 24	R	19	48	34.90		83	55	58.9	
		Sep 8	M	48	34	92		55	58.5		
		12	M	48	34	88		56	0.1		
		14	M	48	34	85		55	59.7		
		15	M	48	34	87		55	58.8		
676		July 18	M	19	49	28.86	5	145	56	59.8	8.5
677		Aug 22	R	19	52	55.25	5	147	11	2.4	9.2
678	— Ursæ Minoris $\lambda$ s p	Feb 4	R	20	1	4.48	3	1	6	4.8	
		s p Mar 3	M	1	3	85		6	4.9		
		s p 5	M	1	3	38		6	8.7		
679	R Capricorni Var 1	Aug 27	R	20	3	37.20	5	104	40	14.7	10.0
		Oct 6	M	3	37	07		40	12.4	9.8	
680		July 18	M	20	4	<del>3.47</del>		147	14	43.1	8.2
681		Sep 15	M	20	7	38.36	5	81	22	38.0	9.2
682	R Sagittæ Var 1	July 31	R	20	7	<del>49.58</del> 8.21	5	78	41	11.0	9.7
		Oct 5	M	7	49	47		41	10.6	9.7	
683	5 Capricorni $\alpha^1$	July 1	M	20	10	3.01		102	55	43.7	
164	6 Capricorni $\alpha$	June 4	M	20	10	27.12		102	58	0.2	
		July 29	R	10	26	97		58	3.2		

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## Separate Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°			
684	6 Capricorn $\alpha^2$	Aug 28	M	20	10	26 93		<del>102</del>	<del>58</del>	<del>0</del>	
		Sep 8	M		10	27 02		58	09		
		14	M		10	26 97		58	12		
		18	R		10	26 94		58	08		
		23	R		10	26 90		58	08		
685	34 Cygni	Aug 22	R	20	12	44 12	3	52	23	30 7	6 0
		Oct 2	M		12	44 52		23	31 4	5 9	
		, 6	M		12	44 41		23	28 9	5 9	
686	— Pavonis $\alpha$	July 29	R	20	14	47 13	4	147	10	14 4	
687	8441 Lacaille	Oct 7	M	20	18	9 46		121	7	9 6	8 6
688	11 Capricorni $\rho$	June 4	M	20	21	2 53		108	15	49 6	
		July 1	M		21	2 45		15	49 8		
		31	R		21	2 49		5	15	50 8	
		Aug 18	R		21	2 51		15	51 4		
		, 27	R		21	2 53		15	50 0		
		Sep 15	M		21	2 46		5	15	50 0	
		, 18	R		21	2 50		6	15	49 5	
		, 23	R		21	2 48		15	51 2		
		Oct 1	M		21	2 37		15	50 3		
		, 8	M		21	2 56		15	50 3		
, 9	M		21	2 47	15	49 5					
, 10	M		21	2 50	15	49 9					
689		Oct 7	M	20	27	46 43		143	16	38 9	8 6
690	24 Cephei (Her)	Oct 8	M	20	28	56 11	2	1	17	<del>20 1</del>	7 9
691		Oct 2	M	20	29	40 82	5	143	52	14 5	9 0
692	143 R P I	Oct 6	M	20	29	50 61	5	5	18	42 2	
693		Oct 10	M	20	30	47 79		149	55	34 7	8 1
694	8 Capricorni Var 2	Aug 22	R	20	33	53 78		109	32	34 9	9 0
		Sep 14	M		33	53 92		32	33 6	9 3	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s					
695	<del>22. 9. 11. 5</del>	July 31	R	20	36	44.82		73	23	17.5	9.2
		Sep 18	R		36	44.84			23	16.9	8.8
696	50 Cygni $\alpha$	July 29	R	20	36	45.64		45	12	29.3	
697	S Delphini Var 2	Oct 9	M	20	36	46.06		73	24	9.9	8.9
698		Oct 7	M	20	38	4.22		143	3	29.6	9.3
699	2 Aquarii $\epsilon$	Aug 27	R	20	40	15.30		<del>100</del>	59	42.4	
700	8571 Lacaille	Oct 10	M	20	42	48.35		150	13	10.8	7.7
701	9633 Taylor	July 2	M	20	44	30.80	3	101	<del>50</del>	0.6	7.0
702	6 Aquarii $\mu$	Aug 27	R	20	45	15.65		99	29	42.9	
703		Oct 8	M	20	47	35.56		149	2	5.8	8.9
704	32 Vulpeculæ	Aug 22	R	20	48	43.20	5	62	27	39.6	
		Sep 18	R		48	43.21			27	41.2	
705		Oct 7	M	20	53	53.28	4	112	59	27.0	9.1
706	<del>R Vulpeculæ Var 2</del>	Aug 27	R	20	58	23.38	3	66	<del>42</del>	<del>55.2</del>	10.5
		Sep 26	R		58	23.28	5		<del>42</del>	<del>54.0</del>	9.5
707		Oct 10	M	20	58	30.79		148	52	5.0	9.8
708	9772 Taylor	Sep 14	M	21	0	23.07		145	7	32.1	7.5
709	61 Cygni (1st)	Aug 18	R	21	0	45.14		51	55	22.8	
710	13 Aquarii $\nu$	July 2	M	21	2	7.64		101	55	26.6	
		3	M		2	7.58	4		50	28.1	
711	64 Cygni 5	Aug 18	R	21	7	6.28		60	20	1.7	
		Sep 30	R		7	6.25			20	1.9	
		Oct 1	M		7	6.32			20	1.5	

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43 2

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*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
					<i>h</i>	<i>m</i>	<i>s</i>					
711	64 Cygn 3	Oct	3	M	21	7	6 36		60	20	1 5	
			5	M		7	6 30		20	0 8		
			23	R		7	6 35		20	2 0		
712	8748 Lacaille	Sep	14	M	21	9	43 32	4	145	7	56 0	8 9
713	22 Aquarii $\beta$	July	31	R	21	24	20 59		96	10	19 9	
		Sep	23	R		24	20 58		10	20 3		
			28	R		24	20 71		10	20 9		
			30	R		24	20 68		5	10	20 0	
		Oct	1	M		24	20 73		10	20 0		
		,	5	M		24	20 55		10	19 8		
		,	7	M		24	20 68		10	19 5		
		,	8	M		24	20 64		10	19 9		
			9	M		24	20 62		10	19 8		
			10	M		24	20 65		10	20 5		
	23	R		24	20 70	10	20 7					
714		Sep	14	M	21	25	45 04	5	140	23	42 6	9 0
715	23 Aquarii $\delta$	July	31	R	21	30	27 30		98	28	1 7	
		Sep	23	R		30	27 29		28	1 2		
716	10032 Taylor	Oct	6	M	21	30	37 36	5	142	53	30 5	6 3
717	10065 Taylor	Oct	8	M	21	34	23 38	4	145	7	23 2	6 2
718	8 Pegasi $\epsilon$	Sep	26	R	21	37	27 42		80	45	7 1	
			28	R		37	27 37		3	45	6 6	
		Oct	3	M		37	27 40		45	6 1		
			6	M		37	27 38		45	5 8		
			7	M		37	27 36		45	6 2		
			10	M		37	27 36		45	5 6		
719	— Cephei $\mu$ Var 1	Aug	24	R	21	39	18 68		31	50	51 1	5 5
		Oct	5	M		39	18 97		50	52 5	5 2	
			9	M		39	18 94		50	51 0	5 5	
720	16 Pegasi	Sep	26	R	21	46	49 75		64	43	7 0	
			28	R		46	49 70		48	6 9		

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude	
					h	m	s		'	"	'''		
720	16 Pegasus	Sep	30	R	21	46	49.73		64	43	75		
		Oct	3	M		46	49.76		43	84			
			6	M		40	49.80		43	61			
			7	M		46	49.73		43	82			
			8	M		46	49.67		43	70			
			, 23	R		46	49.67		43	79			
721	10190 Taylor	Oct	14	M	21	51	1.58		146	32	12.3	6.0	
722		Aug	24	R	21	53	45.64	5	100	49	33.5	9.7	
		Nov	2	M		53	45.94	3		49	34.0	9.6	
723		Sep	14	M	21	58	8.61	1	136	2	51.4	9.3	
724	34 Aquarii $\alpha$	Sep	30	R	21	58	44.73		90	59	3.9		
		Oct	1	M		58	44.58		59	3.1			
			3	M		58	44.71		59	4.3			
			5	M		58	44.71		59	4.0			
			14	M		58	44.78		59	3.7			
725		Oct	5	M	22	5	21.88	3	101	6	5.1	9.6	
			6	M		5	21.04		6	5.7	9.4		
726		Oct	14	M	22	9	2.20		98	22	24.4	7.9	
727		Oct	7	M	22	9	3.86	5	146	27	35.2	9.0	
728	43 Aquarii $\theta$	Aug	27	R	22	9	36.11		98	27	51.3		
729	43 Aquarii $\gamma$	July	31	R	22	14	34.62	6	92	4	36.0		
		Aug	27	R		14	34.72		4	36.0			
730		Oct	17	R	22	15	17.87	5	82	47	40.5		
731		Oct	6	M	22	18	46.99	5	140	46	3.8	9.6	
732	150 R P L	<i>sp</i>	Feb	2	S	22	23	41.72	3	4	34	56.7	
		<i>sp</i>	Mar	9	M		23	42.63	3		35	0.1	
		<i>sp</i>		18	M		28	42.54	3		35	0.3	

## Separate Results of Malins Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude		
				h	m	s							
732	150 R P L <i>s p</i>	Apl 30	M	22	23	42 30	3	4	34	59 6			
		Nov 2	M		23	42 04						35	23
		4	M		23	41 96						35	24
733	21 Cephei $\delta$	July 31	R	22	24	5 40	5	32	17	8 7	5 7		
		Sep 8	M		24	5 23						17	10 0
		Oct 5	M		24	5 34						17	9 3
		14	M		24	5 54						17	10 3
734		Oct 7	M	22	24	36 10	5	146	50	51 5	9 8		
735		Oct 6	M	22	25	48 37		141	30	31 5	8 0		
736	62 Aquarii $\eta$	July 31	R	22	28	18 80	5	90	49	23 4			
		Sep 25	R		28	18 97						49	23 0
		Oct 2	M		28	18 81						49	22 4
		9	M		28	18 82						49	21 7
		, 13	M		28	19 05						49	21 9
		14	M		28	18 90						49	23 4
		, 16	R		28	18 90						49	22 5
		17	R		28	18 91						49	21 4
		Nov 3	M		28	18 83						49	22 5
737	<i>a 77 Taylor</i>	Oct 8	M	22	32	3 46		118	8	5 9	6 0		
738	42 Pegasus $\zeta$	Oct 5	M	22	34	37 76		79	52	58 5			
		10	M		34	37 60						52	58 3
		, 17	R		34	37 74						52	59 1
		Nov 4	M		31	37 59						53	0 4
739		Oct 6	M	22	37	35 40	5	145	46	57 5	6 6		
740	XXII 844 W B $\Gamma$	Sep 26	R	22	40	31 06		87	48	59 4	8 9		
741		Oct 16	R	22	40	48 26	3	142	38	21 7	9 1		
	Nov 4	M		40	48 65	38						19 5	
742		Oct 7	M	22	44	39 96	5	115	33	18 7	10 0		
	27	R		44	40 19	33						20 5	

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°	'	"	
743		Oct 8	M	22	44	46.67		148	34	50.3	7.8
		Nov 11	M		44	46.63			31	51.6	8.0
744	S Aquarii Var 2	Oct 17	R	22	49	45.50		111	4	27.6	8.9
		27	R		49	45.65			4	25.7	8.7
745	24 Piscis Australis α	Oct 6	M	22	50	4.32		120	20	50.7	
		7	M		50	4.38			20	51.0	
		9	M		50	4.38			20	51.7	
		14	M		50	4.38			20	52.6	
		16	R		50	4.38			20	51.5	
		Nov 6	M		50	4.42			20	52.8	
		13	M		50	4.44			20	51.6	
		14	M		50	4.46			20	51.9	
746		Oct 10	M	22	51	22.53		151	33	39.0	9.2
747		Oct 13	M	22	51	47.53		85	26	50.2	9.3
748	9353 Lacaille	Sep 8	M	22	56	32.24		144	41	54.1	6.0
749		Nov 7	M	22	57	7.80		140	38	17.0	9.0
750	53 Pegasi β Var 1	Oct 5	M	22	57	8.24	5	62	39	36.2	
751	54 Pegasi α	Oct 8	M	22	57	56.18		75	31	54.3	
		16	R		57	56.23			31	53.7	
		24	R		57	56.31			31	54.3	
		Nov 11	M		57	56.24		5	31	54.4	
752		Oct 9	M	22	59	16.44		150	22	26.9	9.8
753	9377 Lacaille	Oct 10	M	23	2	8.81		151	18	22.3	6.8
		Nov 13	M		2	8.60			18	22.3	6.2
754	90 Aquarii φ	Aug 29	R	23	7	13.63	5	96	47	14.0	
755	9400 Lacaille	Oct 9	M	23	7	22.68		150	26	26.5	8.3
		26	R		7	22.76			26	25.4	8.0



*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation		Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
					h	m	s		'	"	'''	
755	9405 Lacaille	Oct	27	R	23	7	22 78	5	150	26	24 5	7 5
		,	30	R		7	22 85		26	23 4	8 8	
756	6 Piscium $\gamma$	Oct	13	M	23	10	3 69	5	87	27	57 4	
			14	M		10	3 69		27	59 2		
			16	R		10	3 77		27	57 5		
			17	R		10	3 70		27	57 1		
		Nov	3	M		10	3 84		27	56 6		
			5	M		10	3 76		27	58 3		
			11	M		10	3 82		27	57 4		
	13	M		10	3 75	27	57 7					
757		Oct	10	M		11	2 03		151	16	3 7	9 8
758		Nov	14	M	23	11	15 10	5	136	54	41 3	8 6
759		Sep	8	M	23	12	4 13		137	4	14 6	8 5
760	96 Aquarii	Aug	28	M	23	12	17 65		95	52	21 0	5 5
761	4040 Groombridge	Oct	27	R	23	12	55 84	2	17	3	35 0	7 0
762	10748 Taylor	Oct	7	M	23	17	29 48	5	147	36	2 7	5 9
		Nov	6	M		17	29 44		36	3 3	6 0	
			13	M		17	29 38		36	3 3	5 9	
763		Oct	8	M	23	19	38 74		151	38	24 2	9 9
764	8 Piscium $\alpha$	Sep	25	R	23	19	54 50	5	89	29	39 6	
			26	R		19	54 55		29	39 0		
		Oct	2	M		19	54 68		29	40 0		
			13	M		19	54 48		29	39 9		
		,	17	R		19	54 56		29	38 3		
			24	R		19	54 50		29	40 4		
		,	26	R		19	54 50		29	39 3		
		,	31	R		19	54 52		29	38 3		
		Nov	3	M		19	54 52		29	39 4		
			4	M		19	54 64		29	39 8		
			5	M		19	54 59		29	38 9		
	20	R		19	54 53	29	39 6					

*Separate Results of Madras Meridian Circle Observations in 1863*

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		'	"	'''	
765		Sep 8	M	23	20	59 71		137	28	3 9	95
		Oct 30	R		20	59 97			28	5 0	90
766		Nov 7	M	23	23	33 84		148	57	55 0	88
767	10804 Taylor	Oct 7	M	23	27	26 26	3	147	34	54 1	64
		27	R		27	26 36			34	54 7	67
		Nov 4	M		27	26 66			34	52 4	60
768		Oct 6	M	23	27	42 50	5	118	15	5 2	68
769	158 R P L	Mar 20	R	23	27	49 96	4	3	26	54 7	
		sp 24	R		27	49 83	3		26	52 1	
		sp , 26	R		27	49 78	3		26	55 9	
		sp ,, 28	R		27	49 72	3		26	53 3	
		sp , 31	R		27	49 62	3		26	55 6	
		sp Apl 23	R		27	49 91	3		26	53 3	
		sp May 2	M		27	49 68	3		26	56 8	
		Sep 28	R		27	49 82	3		26	53 7	
		Oct 17	R		27	50 29	3		26	55 1	
		, 31	R		27	49 79	3		26	54 8	
Nov 9	M		27	50 01	3		26	54 4			
770		Sep 8	M	23	29	51 04	6	137	20	27 5	10 0
		Oct 30	R		29	51 35			20	23 7	9 0
771		Nov 7	M	23	30	21 40	5	148	57	0 4	8 4
772	17 Piscium	Aug 29	R	23	32	54 22	5	85	6	57 6	
		Sep 20	R		32	54 26			6	58 1	
		26	R		32	51 28			6	57 4	
		Oct 2	M		32	54 32			6	57 2	
		26	R		32	54 25			6	59 4	
		27	R		32	54 26			6	58 7	
		Nov 2	M		32	54 22			6	59 2	
		3	M		32	54 30			6	58 7	
		5	M		32	54 25			6	57 8	
		11	M		32	54 31			6	57 9	
20	R		32	54 27		6	58 2				

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## Separate Results of Madras Meridian Circle Observations in 1863

Number	Star	Date of Observation	Observer	Mean Right Ascension 1863			No of Wires	Mean Polar Distance 1863			Magnitude
				h	m	s		°			
773		Nov 4	M	23	34	17 16	5	147	27	44 8	9 2
774		Sep 28	R	23	36	43 67	5	106	2	41 7	9 2
775	— Sculptoris $\delta$	Aug 29	R	23	41	47 10		118	53	15 5	
		Oct 2	M		41	47 00			53	16 7	
		13	M		41	47 09			53	17 2	
		26	R		41	47 17			53	16 7	
		27	R		41	47 23			53	16 4	
		30	R		41	46 97			53	15 6	
		31	R		41	47 08			53	16 3	
		Nov 2	M		41	47 19			53	17 5	
		4	M		41	47 04			53	16 7	
		5	M		41	47 07			53	16 2	
		6	M		41	47 09			53	17 8	
		7	M		41	47 04			55	16 1	
		, 9	M		41	47 14			53	16 0	
776		Oct 10	M	23	42	0 32		150	50	19 7	9 2
		Nov 20	R		42	0 21	5		50	17 9	8 0
777	9638 Lacaille	Oct 8	M	23	46	58 39		150	18	19 0	7 7
		Nov 11	M		46	58 35			18	20 0	7 8
778	R Cassiopeæ V u $\delta$	Sep 28	R	23	51	27 44	5	39	22	30 2	9 5
779		Nov 13	M	23	51	55 83	5	143	16	18 8	9 4
780	28 Piscium $\omega$	Aug 29	R	23	52	16 69		83	53	42 3	
		Oct 27	R		52	16 61			53	43 2	
		30	R		52	16 60			53	42 2	
		Nov 2	M		52	16 56			53	43 7	
		6	M		52	16 56			53	43 9	
781	10990 Taylor	Oct 10	M	23	56	50 96		148	35	29 9	9 3
		Nov 11	M		56	50 80	5		35	30 1	9 1
782	10994 Taylor	Oct 9	M	23	57	44 29		147	36	20 6	8 0