

# Kodaikanal Observatory.

BULLETIN No. XXV.

## LIST OF PROMINENCES OBSERVED BETWEEN 1911 JANUARY 1 AND 1911 JUNE 30.

THIS list is a continuation of that published in Bulletin No. XXIV, and contains all the prominences recorded both visually and photographically during the first half of 1911.

Remarks on the general distribution of the prominences and a diagram representing the mean profile areas for each zone of five degrees of latitude will be found on the last page.

The methods of observation and the observers are the same as for the last list.

The following table shows the number of days on which observations were made:—

									Days.
Complete visual observations	..	..	..	..	..	..	..	..	125
Partial do do.	..	..	..	..	..	..	..	..	42
No do do.	..	..	..	..	..	..	..	..	14
Complete spectroheliograph records	..	..	..	..	..	..	..	..	157
Partial do.	.	..	..	..	..	..	..	..	15
No do	..	..	..	..	..	..	..	..	9

Date and observer	Hour L.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	°	°		"	
January 2. S.S.	8 18 9 43 40 8 18 9 39 20 8 18 16 16	.. 11	9	.. 36.5 34.5 36.5 33 43 39	E E E — W W W W W	30 60, 25 15 15 20 10 30 40 30	Ca. Ca. Ca. Ca. Faint. Ca. Slants northwards. Ca. Visual observations partial. Ca photographs 3 <sup>h</sup> 16 <sup>m</sup> incomplete.
January 3. S.S.	9 5 8 42 9 21 18 16 14 13 8 42 9 12 12 10 8 4 8 59 42 42	.. 1 6 4 1 8	70.5 62 68.5 29 13 4	. . . . . 4 9 12 15.5 37 47 79.5 36.5 35.5	E E E E E E E E E E E E E E E E W	60 15 20 30 35 15 15 60 15 10 15 30 25 15 15 25	Ca. Seen only at 9 5 <sup>m</sup> . Ca. Faint in C. Slants northwards. Ca. A slanting arch, 30'' high in Ca. Ca. Ca.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	°	°		'	
January 3. —contd.	S.S.	1		60.5	W	15	Double.
		8 56			W	25	
		9 40		36.5	W	15	
		39		28	W	30	
		35	8	21	W	30	
		31		27	W	30	
		31		29.5	W	10	30" high, top bends and meets the limb at + 32° W in Ca.
		8 42		35	W	45	Ca.
		9 29	2	42	W	35	Top flows northwards. 50" high in Ca.
		27		57	W	10	
	8 42		85.5	W	10	Ca. Ca photographs 8h 42m and 9h 5m.	
January 4.	G.N.	..	74.5	...	E	10	
		9 3			E	10	Ca
		8 24		64	E	10	Ca.
		24		36	E	30	
		9 1	2.5	29.5	E	40	5° broad in Ca. } Connected in Ca.
		0		25	E	30	Detached.
		8 59	4	18	E	20	
		56		7.5	E	—	No prominence. O was displaced to red for about 2.0 A.
		53			E	50	See Note.
		45	1.5	35.5	E	55	40" high in Ca. } Connected in Ca.
		45	8	39.5	E	30	
		42		68	E	10	Seen in Ca only at 8h 5m.
		5		72.5	E	10	Ca. Seen only at 8h 5m.
		40		78.5	E	10	
		5		84.5	W	10	Ca. Seen only at 8h 5m.
		9 22	.	81.5	W	20	
		18	2	29	W	40	
		15		23	W	70	Wider at top. } Connected.
		15	1	17.5	W	45	
		10	2	8	W	15	
	8		26	W	15		
	5	3	37.5	W	70, 20	7° broad in Ca. Top bends and meets the limb again at + 44° W. Ca photographs 8h 24m and 8h 5m.	
January 5.	S.S.	1	82.5	.	E	15	Slightly displaced to red at base.
		9 21			E	20	
		20		67	E	10	
		14		55	E	15	
		12		32	E	15	
		11		22	E	15	
		8	4	14	E	10	
		5		4	E	40	An arch.
		2		12	E	20	
		8 59	11	19.5	E	35	
		57		34	E	25	Faint.
		57	3	41.5	E	60	Faint at top in C. 35" high in Ca.
		54	3	48	E	60	Faint at top in C. 30" high in Ca.
		53		52.5	E	15	
		50		62	E	10	
		26		78.5	E	15	
		26		66	W	15	Ca.
		48		61	W	10	Ca.
		40	6	46	W	10	
		36	3	26	W	60, 70	
	9 34		10.5	W	15	Slightly changed at 9h 37m. 5° broad in Ca.	
	30	3	22	W	10		
	30	2	37.5	W	60	} Connected.	
	26		48	W	80		
			59.5	W	15	Ca photographs 8h 26m and 8h 12m.	
January 6.	A.Y.S.	.	71.5	..	E	10	
		8 42			E	15	
		42		64	E	20	
		42	1	60.5	E	10	
		41		47	E	10	2° broad and 30" high in Ca.
		40		35	E	15	
		38	3	7	E	45	30" high in Ca.
		36		1	E	15	
	36			E	10		

Date and observer.	Hour I.S.T.	Base.	Latitude.		Lamb.	Height.	Remarks.	
			North.	South.				
1911.	n. m.	°	°	°		"		
January 6. A.Y.S. —contd.	8 31	11	..	23 5	E	60		
	25	6		42	E	80, 40		
	21			65.5	E*	20		
	9 0			41.5	W	10		
	8 59	8		28	W	40 ±	Very faint in C 75" high in Ca.	
	9 9			11	W	60	Ca. A short streak about 20" high surmounted by a detached dot 60" high.	
	8 51		8.5		W	10		
	50	2	36		W	40	Faint. 60" high in Ca. A Ca streak from the top 100" high stretches northwards.	
	47	2	41		W	25	A Ca streak from the top joins the last Ca streak.	
	9 9	1	51		W	20	Ca.	
	8 46		56		W	10		
	January 7. G.N.	10 35	...	86	.	...	15	Limb unsteady. Ca photographs 9h 9m and 8h 38m.
35			56		E	20	Ca.	
35		1.5	91		E	25	Ca.	
35			13		E	15	Ca.	
8 50		6		25	E	50 ±, 80	75" high in Ca.	
10 35		6		48	E	70	Ca.	
8 46				62.5	E	45	Not in Ca.	
38				78.5	E	15		
9 5		2		55	W	20		
10 35		3		48.5	W	30	Ca. An arch.	
35				11	W	30	Ca.	
35		3	18.5		W	30	Ca.	
35		3	38.5		W	30	Ca. An arch.	
35			40		W	50	Ca.	
8 59	1.5	43.5		W	30	Ca.		
January 9. S.S.	9 42	1	37.5	..	E	20		
	41		18		E	10		
	40		4.5		E	20		
	38			2.5	E	25		
	36			11	E	20		
	33	5		46.5	E	35		
	28	1.5		82	E	20		
	34			27	W	15	Ca.	
	34	1		10	W	75	Ca.	
	50		11		W	70	Broader at top. Nothing here in Ca	
	34	5	43.5		W	45	Ca. An arch.	
	January 10. G.N.	8 48	...	49.5	...	E	15	
		43		46.5		E	15	
41			39		E	30	2° broad in Ca.	
40		1	30.5		E	25		
40			23		E	25		
37		1		23	E	15		
35		4.5		46	E	60	45" high in Ca.	
30				84.5	W	15		
19				69.5	W	20	Ca. A short streak surmounted by another detached streak.	
19				62.5	W	20	Ca.	
19				25	W	15	Ca.	
19				2	W	80	Ca.	
46			22		W	25	Not in Ca.	
19		1.5	41		W	60	Ca. Ca photographs 8h 19m and 10h 34m.	
January 11. A.Y.S.	9 35	...	31	...	E	15		
	32	1		10	E	30	Broader at top.	
	31	2		14	E	20		
	30			27	E	10		
	26	6		45	E	60, 25		
	28			74.5	E	10		

Date and observer.	Hour I.S.T.	Base	Latitude.		Limb.	Height.	Remarks.
			North	South.			
1911.							
January 11. A.Y.S. —contd.	9 16	3		28	W	35	Ca.
	57		9		W	10	
	55	3	48		W	20	
	58		56 5		W	10	Seeing poor. Ca photographs 9h 16m and 9h 29m.
January 12. S.S.	9 10	...	85.5		E	15	
	9		84		E	10	
	8 18		61.5		E	40	Ca.
	9 4	0.5	46		E	25	
	4	1	42.5		E	20	
	8 54	1		7	E	20	} Connected and extends to — 3° E. in Ca,
	54			9	E	15	
	47	0.5		12	E	35	Top broader.
	47			16	E	25	Do
	47	2		20	E	20	} Tops connected by a } Tops connected.
	48	2		29	E	25	
	40	3		45	E	25	
	37			50	E	15	
	37	0.5		54.5	E	15	Slants towards the last.
	34			64.5	E	10	
	32			78	E	15	
	30			85.5	E	10	
	27			50	E	10	
	25			38	E	10	
	25			34	E	10	
	24	4		29	W	50	35" high in Ca.
	20	0.5		24	W	10	
	17	2		19	W	25	Faint and 30" high at 8h 21m. 15" high at 8h 22m. No trace at 9h 22m.
9 18			13		W	10	
16	0.5		33		W	25	
14	1		58		W	10	
12	0.5		70.5		W	10	Ca photographs 8h 13m and 8h 28m.
January 13. G.N.	9 12	..	85	..	E	15	
	11	1	80.5		E	20	
	8 22		50		E	10	Ca.
	23		47		E	60	Ca. Slants northwards,
	23		45		E	10	Ca.
	22		43		E	20	Ca.
	9 10		42		E	25	10" only in Ca..
	8 22		6		E	15	Ca.
	22		2		E	15	Ca.
	22	2		4	E	75	Ca. Streaks from the top extend both ways, Portions were seen in U.
	38	3.5		21	E	45	
	36	5		29.5	E	60,40	} 35" high in Ca. } Connected by Ca streaks which } 20" high in Ca. } extend to — 15° E.
	36	1		35.5	E	30	
	38	2		52	E	35	15" only in Ca.
	50			85.5	W	25	See Note.
	9 6			79.5	W	15	
	8 22			37	W	20	Ca.
	22			35	W	20	Ca. Almost detached,
	22			32	W	80	Ca.
22			30	W	30	Ca.	
9 5			21	W	15		
8 22			16	W	15	Ca.	
9 0			67.5	W	15	Observed through cirrus. Ca photographs 8h 22m and 8h 33m.	
January 14. G.N.	8 54	1	33.5	...	W	20	
	51		49		E	15	2° broad and 45" high in Ca.
	9 20		44		E	40	Ca. Top extends northwards.
	8 50	1	38.5		E	20	
	48		29		E	20	
	46	4		7	E	50	The Ca prominence extends from — 1° to — 9° E and is 75," 40," and 20" high.
	44			18	E	15	
	9 20			28	E	40	Ca. Faint.
8 43	2		28	E	15		



Date and observer.	Hour L.S.T.	Base.	Latitude.		Limb	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	'	"		"	
January 19. A.Y.S.	9 2	.	70		E	10	
	0	3	45.5		E	90 ±	Faint. The Ca prominence extends from +43° to +45° and is 20" and 45" high.
	8 48		37		E	10	Ca.
	56		32		E	10	
	48		28		E	20	Ca.
	48		15		E	15	Ca.
	54			11	E	15	
	52	1.5		20	E	25	
	50			28.5	E	15	
	50	4		32	E	50	1° broad and 85" high in Ca.
	38	2		71	E	40	See Note.
	29			85	—	10	
	29			88	W	15	
	9 22			88	W	10	
	22	1		61	W	15	
	21	1		47.5	W	25	
	8 48	1		40	W	25	Ca. Slightly changed at 8h 7m.
	9 19			34.5	W	10	
	19			82	W	10	
	19			29.5	W	10	
	15	5		17.5	W	45, 80	Streamers from top extend westwards.
	15	1		10.5	W	15	
	10			1	W	10	
	10	3	4.5		W	40	
	8 48		44		W	20	Ca.
	48		51.5		W	40	Ca.
	9 7		53.5		W	40	Detached.
	6		58.5		W	25 ±	Faint in C 40" high in Ca. Ca photographs 8h 43m and 8h 7m.
January 20. G.N.	8 39	...	78.5	.	E	30	Ca.
	40		64.5		E	15	
	39		48.5		E	20	Ca.
	39	4	48		E	20	Ca.
	39		45		E	60	Faint in C. 80" high in Ca.
	39	1	38.5		E	15	
	39		32		E	15	Ca.
	34		26		E	10	
	34		21		E	10	
	33		17		E	30	
	39			7	E	40	
	32			12	E	15	
	30	4		30	E	25	Ca.
	30	1		35	E	25	10" only in Ca.
	28			59	E	15	
	9 0			73.5	W	40 ±	Showed a displacement of 2.0 Å to red in the adjacent chromosphere. 20" high in Ca.
	8 39			48	W	15	Ca.
	58	2		42	W	45	
	55			21	W	20	
	53	3		17.5	W	40	20" high in Ca. } Connected in Ca.
	39			9	W	15	Ca.
	39			6	W	15	Ca.
	39			2	W	30	Ca.
	39		4		W	15	Ca.
50		18		W	10		
39		30		W	15	Ca. Almost detached.	
44		46.5		W	15		
48		52.5		W	10	Ca photographs 8h 39m and 9h 0m.	
January 21. A.Y.S.	8 31	..	84.5	..	E	30	Ca.
	49	6	46.5		E	70	
	31		40		E	10	Ca.
	42		18		E	15	
	40	1		1	E	25	Faint. 15" high in Ca.
	39			11	E	15	
	38	1.5		35	E	10	
	37			43.5	E	10	
31			71	E	10	Ca.	

Date and observer.	Hour I.S.T.		Base.	Latitude.		Limb.	Height	Remarks.
				North.	South			
1911.	H.	M.	°	°			"	
January 21. A.Y.S. —contd.	8	35	...		84.5	E	10	
		34			77	W	15	O slightly displaced to red.
	9	6	4		42	W	60	
		4			27	W	25	
		0	1	16		W	25	
	8	58	1	20.5		W	10	
		58	8	28.5		W	40	
		55		44		W	15	
		54	1	48.5		W	10	
		31		60.5		W	40	Ca Top extends northwards. Seeing poor. Ca photographs 8h 31m and 8h 48m.
January 22. A.Y.S.	8	47	2	60.5		E	10	
		46	3	51		E	45	Very faint in C.
	9	10		48.5		E	10	Ca.
	8	48		14		E	20	Detached.
		41		4.5		E	20	
		41		1.5		E	15	
		37	2		5	E	20	A faint arch.
		33	6		9	E	35, 10	
		31	2		34	E	25	
		27			48.5	E	10	
		27			57.5	E	10	
		25	2		77.5	E	25	
		57	2		41	W	45	
		57	1		37	W	15	
		55	0.5	27		W	10	
		54	3	42.5		W	20	40" high in Ca. Unsteady limb. Ca photographs 9h 10m and 8h 55m (poor).
January 23. G.N.	10	15	2	53.5	...	E	40	Ca Faint.
	9	59	2	47.5		E	20	Faint in Ca.
	10	15	2	11		E	30	Ca.
		53	1	Equator.		E	15	
		3	2		48.5	W	20	Faint in Ca.
		3			41	W	30	Slants southwards. Faint in Ca.
		15			19	W	15	
		15		62		W	60	Ca. A detached cloud 7° broad. Seeing poor. Ca photograph 10h 15m (poor).
January 24. A.Y.S.	8	46	..	72.5	...	E	10	
		44	1	41.5		E	30	
		42	1	36.5		E	15	
	9	12		24		E	20	Ca.
	8	37	1	21		E	15	
	9	12		19		E	15	Ca.
	8	36	8	9		E	40	
		28			12	E	20	
		26			18.5	E	10	
		25	4		31	E	40	
		23			42.5	E	10	
		21			70	E	10	
		19			83	W	10	
	9	12	1		70	W	20	Ca.
	8	58	2		45.5	W	30	Rather faint in C.
		56	1		21	W	20	
	9	12			12	W	20	Ca.
	8	53	2		0.5	W	45	5° broad in Ca.
	9	12	3	4.5		W	70	Ca. Faint. A small portion 20" high was seen in C.
	8	49	2	56.5		W	20	Ca photograph 9h 12m (poor).
January 25. S.S.	9	4	...	36	...	E	15	1.5 long. Detached.
		2		24		E	25	Detached.
		0		14		E	15	
	8	59		Equator.		E	25	Slants 4° north. 40" high in Ca.
		18	1.5		6	E	15	Ca. Faint.
		55	8		26	E	60	Tallest at southern end. 45" high in Ca.

Date and observer.	Hour I S.T.	Base.	Latitude.		Lamb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	°	°		"	
January 25 —contd.	S.S.	2		35	E	30	Top connected to that of the last in Ca
	8 53			40	E	10	
	44			65.5	W	10	
	43	1		49.5	W	40	Slants 2° south.
	41	5		46	W	45	
	35			12	W	60	Detached. 90" high in Ca
	32	2		8	W	40	
	10 19	1.5	12		W	20	
	8 13	1	30		W	15	Ca. Seen only at 8 <sup>h</sup> 13 <sup>m</sup> .
	10 16		32		W	60	Detached. Seen only at 9 <sup>h</sup> 0 <sup>m</sup> in Ca.
	9 0		34		W	15	Ca. Seen only at 9 <sup>h</sup> 0 <sup>m</sup>
	10 14	0.5	45.5		W	15	
	14	0.5	47.5		W	15	Seen only at 9 <sup>h</sup> 0 <sup>m</sup> in Ca
	8 18	2	48.5		W	15	Ca.
	18		52.5		W	10	Ca.
	18		54.5		W	15	Ca.
							Ca photographs 8 <sup>h</sup> 18 <sup>m</sup> and 9 <sup>h</sup> 0 <sup>m</sup> .
January 26.	G.N.	2	41	...	E	45	Only 20" in Ca at 8 <sup>h</sup> 13 <sup>m</sup> .
	8 45		30		E	10	
	43	3	19.5		E	15	
	39	2		20	E	35	
	36	2		32	E	40	
	36			39	E	40	
	13			43	E	50	Ca.
	9 4	7		47	W	50, 60	See Note 1.
	8 13	1		25.5	W	10	Ca.
	58			14	W	25	} See Note 2.
	58			13	W	30	
	13	2		5	W	20	Ca.
	13	2	Equator		W	40	Ca.
	56		3		W	60	
	53	1	44.5		W	30	Ca photographs 8 <sup>h</sup> 13 <sup>m</sup> and 9 <sup>h</sup> 8 <sup>m</sup> .
January 27.	A.Y.S.	1	70.5	...	E	20	
	8 48	4	50.5		E	40	
	40	1	27.5		E	10	
	37	1	21		E	20	
	34	1	13.5		E	15	
	30	1		2.5	E	10	
	30			4.5	E	10	
	28			32.5	E	20	
	26			35.5	E	20	
	22	3		39	E	90	65" high in Ca.
	22			43	E	10	
	18			69	E	20	
	9 28	1		81	W	20	C slightly displaced to red. Not seen at 8 <sup>h</sup> 17 <sup>m</sup> .
	27			76	W	10	
	8 16	1		71.5	W	15	
	9 26	8		49.5	W	40	
	22	8		27	W	45, 70, 55	Two prominences with tops connected.
	8			12.5	W	20	} ±
	8			10	W	20	
	9	3		5	W	40	
	4		1		W	45	Almost detached. 70" high in Ca.
	8 18		19		W	10	Ca
	58	5	44		W	35	
	53		33.5		W	10	Ca photographs 8 <sup>h</sup> 18 <sup>m</sup> , 8 <sup>h</sup> 32 <sup>m</sup> .
January 28.	S.S.	..	84.5	...	...	15	
	9 22		56.5		E	20	
	10 3	1	54.5		E	15	Ca. Faint.
	9 18		43.5		E	20	Ca prominence faint, 40" high, and extends from + 43° E to + 50° E.
	15	1	35		E	15	
	12	1	6		E	15	
	10			4	E	10	
	1	10		34	E	100	
	8 57	0.5		43.5	E	25	



Date and observer.	Hour I.S.T.		Base	Latitude.		Limb.	Height.	Remarks.
	H	M		North.	South			
1911.								
January 28. S.S.	8	55	..		49	E	10	
—contd.		44	1		62.5	W	25	
		41			59.5	W	10	
		41			56.5	W	10	
		39	2		49.5	W	10	
	10	3			39	W	10	Ca.
	8	36	1		38	W	15	
	10	3			36	W	15	Ca.
	8	33			35	W	10	
		38	7		30.5	W	45	Two prominences connected to each other.
		29			25	W	20	
	10	3	2		6	W	35	Ca. Faint.
	9	41			2	W	40	Detached.
	10	3		5		W	40	Ca. Detached
	9	30	1	20.5		W	15	
		28		33		W	30	
		27		46.5		W	35	Detached. Chromosphere slightly elevated over 2° in Ca.
	10	3	1	68.5		W	15	Ca.
	9	22		84		W	15	
								Seeing rather poor Ca photographs 10h 8m and 8h 31m
January 29. A.Y.S.	9	1	...	76		E	10	Ca
	8	49		55.5		E	25	Top faint.
		46	2	50.5		E	15	
		45		44.5		E	30	Faint in C.
		43	1	27.5		E	45	
		40	2	6		E	30	Bright in C.
		39			13	E	20	Almost detached.
		30	13		33.5	E	135	235" high in Ca.
		28	1		42	E	30	Changing. It was an arch at 8h 33m. Nothing here in Ca.
		23	1		71	E	10	
		20			81	E	10	
		20			83.5	E	10	C slightly displaced to red.
	9	1			76.5	W	10	Ca.
		5			49.5	W	35	20" high in Ca.
		5			43.5	W	30	
		1	5		36.5	W	55	40" high in Ca.
	8	57			4	W	20	Detached and 45" high in Ca.
		57		1		W	25	Detached. 45" high in Ca.
		56	2	27		W	50	70" high in Ca.
		52		44		W	10	
		51		63.5		W	10	
	9	1		68.5		W	10	Ca.
								Unsteady limb. Ca photographs 9h 1m and 9h 33m.
January 30. G.N.	8	43	5	80	..	E	50	
		41	1	8.5		E	20	
		40	3		17.5	E	45	
		38	5		31.5	E	120	Ca. Only a part was seen in C.
		37			48.5	E	15	A Ca streak extends over the top.
		36			83.5	W	35	Ca.
		36			80	W	20	Ca.
		36			78.5	W	20	Ca.
		55	2		51.5	W	20	
		52	3		39	W	60	
		36			14	W	15	Ca.
		36			8	W	15	Ca.
		36	2		3	W	25	Ca.
		36	1	25.5		W	35	Ca.
		36		30		W	60	Ca. Detached.
		36		84		W	20	Ca.
								Ca photographs 8h 33m and 8h 26m.
January 31. S.S.	10	27	..	76.5	..	E	75	Ca. Faint A slanting streak.
	9	15		54.5		E	15	
		8	4	31		E	30	A streak from this meets limb at + 37°E.
		6	1	16		E	15	Extends to + 20°E in Ca.
		1	4		15	E	50	80" high in Ca.
	8	56	4		38.5	E	40	



Date and observer	Hour L.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.							
February 3.	S.S.						
—cont'd							
	8 35	3		33.5	W	35	
	31			28	W	15	
	31			20	W	10	Ca.
	25			10.5	W	15	
	25			9.5	W	15	
	9 24	0.5	12.5		W	10	
	22	0.5	22		W	15	
	20		27.5		W	20	
	19		42.5		W	10	
	11		79		W	10	
							Seeing poor. Ca photograph 8h 31m (Fair).
February 4.	A.Y.S.						
	9 28	..	82.5		E	10	
	24		54.5		E	30	± Very faint in C.
	8 27		34		E	15	Ca. Faint.
	9 6	1	30		E	25	
	8 37	1.5	19.5		E	15	
	9 28	0.5		3	E	10	
	8 35			15.5	E	10	
	33			33	E	10	
	30	0		43.5	E	35	
	29	1		50.5	E	15	
	27			57.5	E	15	
	24			78	E	10	
	23			82.5	W	15	
	23			78.5	W	10	
	9 20	1		8.5	W	20	
	8 27			8	W	10	Ca.
	27		19		W	55	Ca.
	27		22		W	35	Ca. Detached.
	9 9	1	35.5		W	20	±
	8 27		37.5		W	40	Ca. Detached.
	9 21		41.5		W	10	30' high in Ca.
	8		53.5		W	10	
	22		83.5		W	10	
							Ca photograph 8h 27m.
February 5.	G.N.						
	8 50	1	60		E	25	
	48	2	35.5		E	45	
	48	3	25.5		E	30	
	9 15		17		E	55	Ca.
	15		12		E	10	Ca.
	15			22	E	50	Ca.
	8 42	3		40	E	50	
	40	1		55	E	35	
	36			83	E	15	
	36			83.5	—	15	
	55			60.5	W	30	
	9 15			54.5	W	30	Ca.
	15	1	16.5		W	40	Ca.
	8 51	1	61.5		W	15	
							Ca photograph 8h 15m (poor).
February 6.	S.S.						
	9 15	...	54.5	...	E	30	} Connected in hydrogen, not in calcium. Detached, slanting.
	15		52.5		E	30	
	8		36.5		E	60	
	5		19		E	10	
	8 21	2		19	E	20	Ca.
	58	3		22.5	E	40	Top 5° broad.
	54			41	E	20	
	52	1.5		43.5	E	20	} A streak passes through these and extends to lat. - 45° E.
	50	1.5		52.5	E	40	
	49	1		56.5	E	20	
	41			77.5	E	10	
	21	1		81	E	15	
	39	0.5		81	W	15	
	36			62	W	20	
	36			61	W	20	
	35			53.5	W	10	
	9 29			28	W	20	
	8 21	1		20	W	15	Ca.



Date and observer	Hour I.S.T.	Base	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	'	"		'	
February 9. S.S. —contd.	8 16 9 1 8 58 54 48 46 40 38 36 15	.. 2 8 2 1 6    0.5	7 6       58.5	  4 18 35.5 48.5 54.5 78.5 82.5	E E E E E E E E E W	20 35 30 30 15 70 15 15 10 20	Ca. 45" high in Ca. 20" and 15" high in Ca. <i>See Note</i> 55" high in Ca.  Ca. Passing clouds. Ca photographs 8h 15m and 8h 28m.
February 10. A.Y.S.	8 22 5 38 38 38 36 33 31 25  28 51 10  49 47  45	       2 6  1    1	81 8 5 4 3    28	     3 24 34.5 49.5  64 88 78.5  32.5 14	E E E E E E E E E E W W W W	25 15 20 30 20 10 15 50 50  15 20 20  45 —  10	Ca. Seen only at 8h 22m. Ca. 45" high in Ca. Top flows eastwards. Top flows eastwards. C slightly displaced to red at the base at the E end. Faint in C. Bright. C slightly displaced to red. Prominence gone by 8h 19m Chromosphere slightly elevated. Ca prominence here is 10" high. Limb unsteady. Ca photographs 8h 5m and 8h 22m.
February 11. G.N.	8 45 44 23 43 25 40 40 34 34 50 28 26 26	...     1.5 1.5 2.5 0.5  6 1 3	74.5 40.5 23 15 7    81.5	...     33 35.5 39.5 47.5 52.5 39 34.5 22	E E E E E E E E E W W W W	20 15 15 40 40 30 35 20 30 30 15 50 25 20	Ca. Ca. Ca. Connected by a streak. Ca. Ca. Ca photographs 8h 20m and 8h 38m.
February 12. G.N.	9 43 8 48 47 9 48 43 43 8 46 9 43 8 45 42 53 52 50	... 1.5 1   2  1.5  4  8	30 28 24 17 16 20    6 32	...     34.5 40.5 47.5 60.5 37.5	E E E E E E E E E E W W W	15 15 50 15 30 20 40 20 30 15 60 20 45	Ca. Ca. Ca. Ca. Ca. Ca photographs 9h 43m and 8h 28m
February 13. S.S.	8 58 55 15 49 48 48	... 2 2  0.5 1.5	38.5 29 29  43.5	...   15 27 43.5	E E E E E E	15 60 20 60 10 15	Top bends and meets limb in Ca at + 41° E. Ca. <i>See Note.</i>

Date and observer	Hour I.S.T.		Base.	Latitude.		Limb	Height.	Remarks.
				North	South.			
1911.	H	M	°	°	°		"	
February 13. S.S. —contd.	8	40	2		52.5	E	20	} Connected in Ca.  20" high in Ca. Ca photographs 8 <sup>h</sup> 15 <sup>m</sup> and 8 <sup>h</sup> 32 <sup>m</sup> .
		37	2		78	E	25	
		33			65	W	10	
		28	3		39	W	40	
		26	0.5		36	W	10	
		26	2		33.5	W	35	
	9	20	1.5		17.5	W	15	
		19			2	W	15	
		15	5	80		W	40	
		9	2	56.5		W	30	
		5		67.5		W	10	
February 14. A.Y.S.	8	40	4	44.5		E	25	40" high in Ca. 70" high in Ca.  20" high in Ca. ± Faint.  Ca. A faint slanting streak. Ca. A faint slanting streak.  Ca. Ca. Ca. Ca. Ca. Unsteady limb. Ca photographs 8 <sup>h</sup> 50 <sup>m</sup> and 8 <sup>h</sup> 15 <sup>m</sup> .
		38	3	83		E	50	
		35	1	22.5		E	15	
		34		14		E	10	
		31			15.5	E	10	
		31			21	E	10	
		30	1		38.5	E	15	
		28	3		50	E	40	
		26	1		55	E	20	
		25	1		61.5	E	20	
		55			58.5	W	20	
		50	1		40.5	W	15	
		50	1		38	W	25	
		50	2		34.5	W	20	
		49	1		30	W	10	
		50			16	W	40	
		50			12	W	60	
		47	4	2		W	20	
	50		28		W	20		
	50		80.5		W	15		
	50		85.5		W	15		
	50		71.5		W	60		
	50		73.5		W	30		
February 15. G.N.	8	39		48.5	...	E	45	Ca.  Ca photographs 8 <sup>h</sup> 13 <sup>m</sup> and 8 <sup>h</sup> 35 <sup>m</sup> .
		32		19		E	15	
		32		17		E	15	
		13			28	E	20	
		30	1		30.5	E	20	
		47	0.5		78.5	E	20	
		45			47.5	E	15	
		45	3		38	W	40	
		44	3	4.5		W	30	
February 16. S.S.	9	3		46	..	E	15	A streak 3° long and parallel to limb. Double. In Ca it consists of 2 prominences at - 2° and - 4° and 30° and 40° high. Very faint.  Ca. Slants up to - 18° W. 45° high in Ca. A Ca streak from it meets limb at - 5° W.
		0	4	41.5		E	30	
	8	57		29		E	10	
		51	2		3	E	30	
		48			57	E	10	
		42			69.5	E	25	
		39	1		82.5	E	10	
		38			78.5	W	10	
		33	4		36.5	W	50	
		28			29	W	10	
		45			12	W	30	
	9	20	2		8	W	80	
		16	4	7		W	15	
		11	0.5	55.5		W	10	
	11		57.5		W	15		
	10		61.5		W	15		

Date and observer.	Hour I.S.T.		Base.	Latitude.		Limb.	Height.	Remarks.
				North.	South.			
1911.	H	M.	°	°	°			
February 16. S.S. —contd.	9	10		68.5	.	W	15	
	8	19	1	81.5	.	W	40	Ca, seen only at 8 <sup>h</sup> 19 <sup>m</sup> . Ca photographs 8 <sup>h</sup> 45 <sup>m</sup> and 8 <sup>h</sup> 19 <sup>m</sup> .
February 17. A.Y.S.	8	50	1	75	.	E	15	
	9	15		49.5	.	E	10	
	8	47		41.5	.	E	30	45" high in Ca.
		44	3	39	.	E	45	
		39	2	34.5	.	E	25	
		38		15	.	E	10	
		29		Equator.		E	45	Ca. A very faint streak.
		36		6		E	20 ±	Faint.
	9	10	1		10	E	15	
		8			38	E	20	Almost detached. C slightly displaced to violet
		5	2		69	E	20	
		3			82.5	W	10	
		2	1.5		46.5	W	16	
		0	3		41	W	20	
		0	3		38	W	40	Only 1° broad in Ca.
	8	29		5		W	20	Ca. Seen only at 8 <sup>h</sup> 29 <sup>m</sup> .
		52		81.5		W	20 ±	Ca photographs 8 <sup>h</sup> 29 <sup>m</sup> and 9 <sup>h</sup> 4 <sup>m</sup> .
February 18. G.N.	8	47	1	68.5	.	E	25	
		43	8	38.5	.	E	50, 40	Ca. Detached.
		18		19	.	E	60	Ca.
		18			9	E	15	
		35			21	E	15	
		34			52.5	E	15	
		31			75.5	W	30	
		56	1		47	W	30	
		56	2		48.5	W	25	
		18	1		39	W	15	Ca.
		58			21	W	30	
		52			16	W	25 ±	Faint.
		51			9	W	20	
		50		10		W	20	
		18		36.5		W	15	Ca. Ca photographs 8 <sup>h</sup> 18 <sup>m</sup> and 8 <sup>h</sup> 30 <sup>m</sup> .
February 19. A.Y.S.	8	45	..	73.5	...	E	10	
		44		32	...	E	10	
		39	8	40.5	...	E	45, 25	
		37		32.5	...	E	25	
		53		28	...	E	10	Ca.
		36		22	...	E	15	
		34		10	...	E	30	
		33	2	10	...	E	15	
		32			4	E	10	
		30			13.5	E	20	
		28			16	E	10	
		27			26	E	15	
		26			40	E	15	
		25			48.5	E	10	
		23			63	E	10	Faint, 35" high, and seen only at 8 <sup>h</sup> 32 <sup>m</sup> in Ca.
	10	18	1		77.5	W	15	C was slightly displaced to violet. The prominence was not seen at 8 <sup>h</sup> 22 <sup>m</sup> .
		8			75.5	W	10	
		9			51.5	W	10	
		0	6		44.5	W	45	
		0	1		31	W	15	
		58		9		W	20	Ca.
		50		24		W	20 ±	Not in Ca.
		50		30		W	60	A Ca streak from this extends westwards.
		48	1.5	38.5		W	15	
		58		39.5		W	10	Ca.
		58		45.5		W	15	Ca.
		47		57.5		W	10	Ca photographs 8 <sup>h</sup> 58 <sup>m</sup> and 9 <sup>h</sup> 32 <sup>m</sup> .

Date and observer.	Hour I S.T.	Base	Latitude.		Lamb.	Height.	Remarks.
			North	South.			
1911.	H. M	°	°	°		'	
February 20. S.S.	9 14	.	4	.	E	10	
	8 55	.		62.5	W	10	
	48	6		42.5	W	30	4 prominences connected to one another.
	9 44		56 5		W	10	Seeing bad. No prominence photograph.
February 21 G.N.	8 58	1	42	.	E	90	Only 60" high in Ca at 8h 30m.
	55		30.5		E	25	
	30			9	E	15	Ca
	50			26	E	35	See Note
	40	4		29	E	45	A Ca streamer from the top extends to lat. - 24°.
	38			41.5	E	15	
	37			52.5	E	15	
	34	1		71.5	W	20	
	34			68	W	15	
	33			65	W	20	
	9 8	6		41.5	W	25	
	5	7		0.5	W	50	
	8 30			28	W	30	Ca
	30			32.5	W	15	Ca.
	30			44.5	W	50	Ca. Faint.
30			72.5	W	30	Ca Ca photographs 8h 30m and 8h 49m.	
February 22. A Y.S.	8 42	1	40.5		E	25	50" high in Ca.
	42	2	46.5		E	30	
	41		41.5		E	50	
	35		24		E	10	
	22		15		E	10	Ca.
	30	2		28	E	50	A streak from this extends southwards.
	29			34.5	E	20	Faint.
	20			60	E	10	
	20			65	E	10	
	19			75	W	10	
	9 16	2		42.5	W	40	C slightly displaced to red at the top. 20" only in Ca.
	10	3		27.5	W	25	C slightly displaced to red.
	8 22			18	W	30	Ca
	9 8			13.5	W	10	
	8 22			9	W	25	Ca. Detached.
	9 0	9		2.5	W	20	
	8 55			6	W	25	
52			41.5	W	15	30" high in Ca	
49	3		60.5	W	40		
46			79.5	W	10		
						Limb very unsteady during most of the time. Ca photographs 8h 22m and 8h 41m.	
February 23. S.S.	9 38	...	88	.	E	20	
	37		58		E	10	
	36	4	50.5		E	60	Two prominences connected to each other.
	8 23	2	49.5		E	50	Ca. Top meets the last prominence.
	28	1	41		E	30	Ca.
	9 18	1.5	15		E	25	Faint in Ca.
	8 23	2		8	E	40	Ca. Faint.
	9 6	3		35.5	E	45	
	6	1.5		38.5	E	45	Connected in Ca.
	6			42	E	20	
	8 53	0.5		76	W	20	Very faint.
	45	0.5		44.5	W	15	
	39	10		28	W	95	See Note.
	9 46			5	W	15	
44			6	W	35		
43	1		8.5	W	25	45" high and a streamer from top flows to + 4° W in Ca. } Connected in Ca.	
42			12	W	15		
8 23			29	W	15	Ca. Faint. Surmounted by a streak 3° long. Limb unsteady. Ca photographs 8h 23m, 8h 34m and 14h 42m	



Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911							
February 24. G.N.	H. M.	°	°	°		"	
	8 18		73.5		E	15	Ca.
	52		66		E	15	
	50		61		E	25	
	18	0	49.5		E	70	Ca.
	18		29		E	15	Ca.
	50		4		E	45	Ca. Seen only at 8h 50m
	42			21	E	15	
	42			31.5	E	30	
	42	5		38	E	40	
	37			70.5	W	30	
	18	5		55	W	20	Ca.
	0 0	4		32.5	W	100	See Note.
	8 55		1		W	10	
	18	7	18.5		W	15, 40	Ca.
	18		31.5		W	20	Ca.
	50	2	87		W	15	Ca. Seen only at 8h 50m.
February 25. A.Y.S.	8 30	1	53	...	E	50	Ca photographs 8h 18m, 8h 50m, 9h 57m, 10 1m, 10h 51m, 11h 18m, 11h 50m and 15h 6m.
	35	1	51	...	E	25	Rather faint in C.
	15		44.5		E	10	40" high in Ca.
	31	3	8.5		E	25	Ca.
	28			33	E	25	Bright in C.
	28	1		36	E	25	
	25	3		39	E	35	
	21			57.5	E	10	
	19			37	E	15	
	18			82.5	W	10	
	59	1		75.5	W	20	
	58	1		58	W	15	
	57	3		55	W	45	30" only in Ca.
	54	3		34	W	70	50" high in Ca.
	52			24	W	10	
	51	1		9	W	15	
	49	0.5	12		W	40	See Note.
	44	5	22.5		W	20	
	43		28		W	25	
	15		30.5		W	20	Ca.
	41		30.5		W	10	
	40		48.5		W	10	
	15		50.5		W	15	Ca.
	39	1.5	60		W	15	Ca photographs 8h 15m and 8h 40m.
February 26. A.Y.S.	9 10	1	81.5	...	E	10	
	15		68.5		E	15	
	14	1	55.5		E	20	
	8 28	11	7.5		E	45	An arch. The stem at the N. end is 3° broad.
	28	3	0.5		E	15, 35	See Note.
	28	5		7.5	E	40	Bright. Changing.
	21	5		35	E	50	30" high in Ca.
	18			47.5	E	10	
	18	1		50	E	10	
	18			52.5	E	15	
	16			54.5	E	15	
	14	1		81	E	10	
	13			70.5	W	10	
	9 25	7		52	W	35	
	23	3		35	W	60	
	20	2	6		W	15	
	8 41		13		W	70	Ca. A faint slanting streak.
	9 19	1	21.5		W	40	A small elevation in Ca extending to + 30° W
	19	2	26		W	40	connects these at base.
	18	2	34.5		W	20	40" high in Ca.
	8 41		45.5		W	40	Ca. Very faint
							Ca photographs 8h 41m and 8h 59m.
February 27. A.Y.S.	9 27	...	65	...	E	10	Ca.
	31		59		E	10	
	30		53		E	10	
	29	3	34		E	40	
	28	1.5	25		E	25	



Date and observer.	Hour L.S.T.	Base.	Latitude.		Limb.	Height.	Remarks
			North	South.			
1911.	H. M.	°	°	°		"	
March 2. A.Y.S.	8 51			84.5	W	20	
-contd.	51	3		32	W	15	
	10 31			15	W	30	Ca. Seen only at 10h 31m.
	8 22			7	W	45	
	22			Equator.	W	40	Detached. } Ca. Faint.
	22		3		W	20	
	22		8		W	20	
	22	1	20		W	30	Ca. Seen only at 8h 22m.
	47	3	42		W	40	
	47	2	45.5		W	40	
March 3. G.N.	8 47	1.5	28.5	..	E	20	
	45			11	E	15	
	40	6		38.5	E	40	
	21		19		W	20	Ca.
	55	9	39		W	40, 80	Ca photograph 8h 21m.
March 4. A.Y.S.	8 38	...	38.5	...	E	30	
	36	4	30		E	20	
	18		23		E	15	Ca.
	33		7		E	15	
	32		2		E	10	
	31			7	E	10	
	29	2		40.5	E	30	Only 15" high in Ca.
	28	1		44.5	E	20	Rather faint in C.
	28			78.5	W	15	
	52			50	W	20	
	51			23	W	20	
	18			1	W	30	Ca.
	18		1		W	40	Ca. Detached.
	18		4		W	45	Ca.
	50		10		W	10	
	49		16		W	20	
	18		24		W	120	Ca. Detached. 4° long.
	47		20		W	10	
	45	4	39.5		W	00	
	43		48.5		W	15	
	41		57.5		W	15	C was slightly displaced to red at base.
	40		69.5		W	10	Ca photograph 8h 18m.
March 5. A.Y.S.	9 2	1	51	...	E	20	
	1		18.5		E	10	
	8 52	3		45	E	35	20" high in Ca.
	52			50.5	E	10	
	51			58.5	E	10	
	51			61	E	10	
	46			77.5	E	10	
	46			82	E	10	
	9 25			70.5	W	15	
	25			50.5	W	15	
	25	2		44.5	W	15	45" high in Ca.
	20	2		24	W	40	Only 15" high in Ca.
	10			6	W	15	
	10		4		W	10	
	32		28.5		W	60	Ca. Detached. 3° long.
	8	2	38.5		W	50	
	5	1.5	51		W	20	
	4	2	76		W	10	
	3		82.5		W	15	
							Seeing poor. Ca photograph 9h 32m
March 6. S.S.	8 49	..	58.5	...	E	10	
	48	1	48		E	10	
	15		43.5		E	10	Ca.
	38	4		44.5	E	50	
	32	1		77	E	20	Faint.
	27			76.5	W	10	
	25			57.5	W	25	

Date and observer.	Hour L.S.T.	Base.	Latitude		Limb.	Height.	Remarks.
			North	South.			
1911.	H. M.	°	°	°		"	
March 6. —contd.	S.S.	..	...	41	W	10	
				30	W	85	
				28	W	20	1° broad and 45" high in Ca.
		0.5		3	W	30	Ca.
			27		W	10	
		1	28		W	10	
		1	30.5		W	10	Ca.
		1	40.5		W	15	Ca photograph 8 <sup>h</sup> 15 <sup>m</sup> .
March 7.	G.N.	..	64		E	10	
			82		E	15	
			37.5		E	15	
			35.5		E	15	
			32.5		E	15	
		3	0.5		E	20, 35, 15	Ca.
				4	E	15	Ca.
				10	E	10	Ca.
				13	E	20	Ca.
				29	E	25	
		7		41	E	45, 30	
				47.5	E	30	Ca.
				83	—	20	
				78	W	15	
				25	W	30	
			9		W	15	
			30		W	40	Ca.
			31.5		W	50	Ca.
			68		W	45	See Note. Ca photograph 8 <sup>h</sup> 10 <sup>m</sup> .
March 8.	A.Y.S	2	40.5	..	E	40	
			32.5		E	30	
			8		E	40	Top faint in C.
		3	3		E	40	
		1		2.5	E	20 ±	
		4		6	E	20	
				13.5	E	20	See Note.
		4		17	E	30 ±, 20	Faint.
		5		22.5	E	25	
		1		38	E	45	
		1		41	E	40	
		2		44.5	E	35	40" high at 9 <sup>h</sup> 20 <sup>m</sup> . 25' only in Ca.
		1.5		52	E	20	
		3		85	W	40	
				13	W	10	
			3		W	15	
			40.5		W	15	Ca.
			45.5		W	15	
							Seeing poor. Ca photographs 9 <sup>h</sup> 5 <sup>m</sup> and 9 <sup>h</sup> 21 <sup>m</sup> , the latter incomplete and both poor.
March 9.	A.Y.S		54.5	..	E	10	
			50.5		E	35	
			48.5		E	45	Detached.
			40.5		E	60	Detached in C.
			34		E	55	Detached. Faint } See Note.
		4	32.5		E	75	Ca. Faint streaks. Seen only at 8 <sup>h</sup> 12 <sup>m</sup> .
			16		E	10	
			10		E	60	Ca. A cloud 5° long connected to the limb by a slender stem.
		3	2.5		E	20	
		2		2	E	20	Ca. Seen only at 10 <sup>h</sup> 5 <sup>m</sup> .
				14	E	45	Ca.
		15		29.5	E	20, 40	
				43.5	E	10	Ca.
		1.5		47.5	E	20	
		2		53.5	E	20	
				56.5	E	15	
		3		62	E	20	
				82.5	E	10	
				74.5	W	15	Ca.
				64.5	W	10	

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb	Height.	Remarks.
			North.	South.			
1911.	n. m.	°	°	°		"	
March 9. A.Y.S.	8 26	1		61.5	W	10	
—contd.	26	1		56	W	20	
	9 2	1		37	W	30	Top broader. 50" high in Ca.
	8 12			84.5	W	10	Ca.
	9 0			21	W	10	
	0	1		16	W	20	
	8 12			0	W	60	Ca. Detached.
	59	2	22		W	20	
	56		26		W	15	
	55		41.5		W	20 ±	
	54		45.5		W	40	} Changing in Ca; 45" and 70" high in it at 8 <sup>h</sup> 12 <sup>m</sup> . Ca photographs 8 <sup>h</sup> 12 <sup>m</sup> and 10 <sup>h</sup> 5 <sup>m</sup> .
	53	2	51.5		W	35	
March 10. A.Y.S.	8 32	...	81	...	E	30	Ca.
	43	2	60		E	30	
	45		55.5		E	25	
	48		38.5		E	20	
	32		30.5		E	75	Ca A small detached streak.
	35	4	26		E	30	
	36	1	20.5		E	20	See Note.
	33		11		E	20	Faint and detached in C.
	32	1	0		E	20	
	32			4	E	30	Ca. Slants eastwards
	31			11	E	25	
	32			13	E	45	
	32			14	E	40	} Ca. Faint streaks.
	32			16	E	40	
	27	6	32.5		E	75	50" high in Ca.
	28	4	52.5		E	30	} Connected by a short Ca. streak.
	22	3	59		E	55	
	20				W	10	
	57	7		38	W	45	
	32			23	W	10	Ca.
	54		20		W	10	
	53	1	30.5		W	10	35" high in Ca.
	53		44.5		W	15	
	51	3	56		W	20	
	32		61		W	30	Ca.
	32		64		W	20	Ca.
	49		69		W	15	Ca photographs 8 <sup>h</sup> 32 <sup>m</sup> and 8 <sup>h</sup> 45 <sup>m</sup> .
March 11. A.Y.S.	8 40	2	64	...	E	20	
	40	3	60.5		E	40	
	38		38.5		E	10	Faint in C.
	29		36.5		E	45	Ca.
	29		30		E	20	Ca.
	29		28		E	55	Ca.
	29		16		E	25	Ca.
	29		14		E	35	Ca.
	29		8		E	10	Ca.
	29		5		E	10	Ca.
	37		2		E	15	Ca.
	29		Equator.		E	45	Ca. Detached.
	29		1		E	30	Ca.
	29		3		E	15	Ca.
	29		8		E	30	Ca.
	29		10		E	20	Ca.
	36		12		E	20	
	47	1	14.5		E	50	Ca. Seen only at 8 <sup>h</sup> 47 <sup>m</sup> .
	29		20		E	15	Ca.
	34		24		E	10	
	33	4	34.5		E	45	
	30		42.5		E	15	
	30		47.5		E	20	
	25	5	57		E	100	Only 75" high in Ca.
	22		60.5		E	20 ±	
	22		81		W	10	
	29		47.5		W	30	Ca.
	55	6	38.5		W	45	
	55	1.5	33.5		W	70	Slants over the last prominence.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	.	.	.	.	.	
March 11. —contd	A.Y.S.						
	8 47	1	..	14	W	10	Ca. Seen only at 8 <sup>h</sup> 47 <sup>m</sup> .
	53			5	W	25	
	52			1	W	20 ±	
	47		2		W	20	Ca. Seen only at 8 <sup>h</sup> 47 <sup>m</sup> .
	29		5		W	75	Ca. A detached streak 2° long.
	29		7		W	15	Ca.
	29		8		W	50	Ca. A short detached streak.
	51		12		W	15	Bright.
	29		18		W	30	Ca. A streak slanting westwards.
	29	4	22		W	45	Ca. A small portion of this was seen in C
	46		31.5		W	110	About 5° broad at the top
	44	1.5	52.5		W	10	
	43		64		W	20	
							Ca photographs 8 <sup>h</sup> 29 <sup>m</sup> and 8 <sup>h</sup> 47 <sup>m</sup> .
March 12.	G.N.						
	8 59	4	68		E	40	
	54		57.5		E	30	
	22		39.5		E	20	Ca
	22		35.5		E	20	Ca.
	22		30.5		E	40	Ca.
	22		29		E	90	Ca Bent at top.
	22		28		E	20	Ca.
	45		21		E	15	Ca.
	45		18		E	15	Ca.
	48	3		35	E	30	
	48			38.5	E	40	
	48			39.5	E	00	
	22			47.5	E	130	Ca. A detached cloud.
	45	6		52.5	E	70	
	40			71.5	E	15	
	35	7		38	W	70	
	34			39.5	W	15	
	34			32.5	W	15	
	34			31.5	W	15	
	22	2		30	W	10	Ca.
	22			25	W	15	Ca.
	22			24	W	10	Ca.
	22			23	W	30	Ca.
	30	2		15	W	45	See Note.
	9 5	4		6	W	45	
	8 45				W	45	Ca.
	22		1		W	15	Ca.
	22		3		W	15	Ca.
	22		12		W	15	Ca.
	22		27		W	20	Ca.
	22		29		W	45	Ca.
	22		31.5		W	100	Ca.
	22		38.5		W	15	Ca.
							Ca photographs 8 <sup>h</sup> 22 <sup>m</sup> and 8 <sup>h</sup> 45 <sup>m</sup> .
March 13.	S.S.						
	8 16		82.5	...	E	30	Ca.
	9 9		81		E	20	
	9 9		79.5		E	20	
	9 9		77.5		E	10	
	9 9		76		E	10	
	8 8		75		E	10	
	7 7		72		E	10	
	7 7		70.5		E	10	
	8 16	0.5	69		E	20	Ca.
	9 4	8	57.5		E	25	40' high in Ca.
	9 0	4	33.5		E	100 ±	See Note.
	8 16	0.5	11		E	10	Ca.
	52	0.5		20	E	15	
	48	1.5		51	E	10	
	46			55.5	E	20	
	44			64	E	10	
	42			78.5	E	15	
	40	0.5		78	W	10	
	34	3		27	W	30	
	33	0.5		34.5	W	10	} Connected in Ca.
	30			22	W	35	Slants south. A Ca streak 45' high slants north.
	16			20	W	45	Ca. A short detached streak.
	30			19	W	20	45' high in Ca.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	°	°		°	
March 13. S.S.	8 16	...	...	17	W	45	Ca
—contd.	30	1		13	W	15	
	16	3		45	W	15	Ca.
	9 16	1	65		W	15	
	12	0.5	56.5		W	30	Upper part detached from lower.
	8 16		64		W	10	Ca.
	16		68		W	10	Ca.
	16		67		W	20	Ca.
	16	0.5	69		W	30	Ca.
							Ca photographs 8h 16m, 8h 34m, 9h 0m, 9h 12m, 10h 33m and 10h 38m.
March 14. A Y.S.	8 52	2	75.5		E	30	Only 10" high in Ca.
	52		73.5		E	10	
	51		63		E	10	
	46	1	49.5		E	10	
	45		41.5		E	10	Bright Not seen in Ca.
	37	2	38.5		E	90	A Ca streak from top rises to 150" in height.
	34		35.5		E	75	
	34	1	33.5		E	75	Top about 4° broad. } 60" high in Ca.
	31		27		E	15	
	30		24		E	15	
	33		19		E	10	Ca.
	28		13		E	10	40" high and seen only at 8h 18m in Ca.
	33		3		E	30	Ca. Faint.
	27	1		21.5	E	20	Faint.
	23			28	E	10	
	21			37.5	E	15	
	20			55	E	15	
	19			62	E	10	
	18	2		72.5	E	15	
	33			81.5	E	30	Ca.
	16	1		86.5	W	10	
	16			65	W	15	
	15	1		63.5	W	15	
	9 0	3		30	W	45	A streak from this meets limb at -25° W.
	8 33			23	W	30	
	33			21	W	50	Ca. Short detached streaks.
	33			17	W	15	Ca.
	33			7	W	20	Ca.
	57	0.5	6		W	20	2" broad in Ca.
	56	2	9		W	10	
	33	1.5	70		W	20	
	33		72.5		W	15	Ca.
	33		77		W	20	
	33	1	83		W	20	Ca photographs 8h 33m and 8h 16m.
March 15. G.N.	9 5	...	60	...	E	15	
	4	7	45		E	30	
	5		32.5		E	25	Ca.
	5		30.5		N	10	Ca.
	5	3	28.5		N	10	
	4			7	N	15	
	2			74.5	W	10	
	2			65	W	15	
	5			63	W	15	
	5			35.5	W	30	
	5			33.5	W	10	Ca.
	5			29	W	10	
	5			12	W	10	
	8	4	10		W	35	Passing clouds. Ca photograph 9h 5m.
March 16. S.S.	9 4	1	81	...	E	15	Not in Ca.
	0		49.5		E	30	
	0	10	42.5		E	45	Tops connected by a streak.
	39			5	E	30	Ca.
	8 48			62	E	10	
	42	0.5		77	E	10	
	42			79.5	E	10	
	37			69.5	W	25	













































































