

Kodaikanal Observatory.

BULLETIN No. XXVI.

LIST OF PROMINENCES OBSERVED BETWEEN 1911, JULY 1 AND 1911, DECEMBER 31.

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

Remarks on the general distribution of the prominences with a diagram representing the mean profile areas for each zone of five degrees of latitude, and a review for the whole year, will be found on pages 499-500.

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	..	..	..	..	..	..	..	..	..	95
Partial do do.	..	..	..	..	..	..	..	..	..	35
No do do.	..	..	..	..	..	..	..	..	..	54
Complete spectroheliograph records	..	.	..	..	..	..	..	..	..	124
Partial do.	..	..	..	..	..	..	..	..	..	30
No do.	..	..	..	..	..	..	..	..	..	30

Date and observer	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	n. m.	°	°	°	↓	"	
July 1. A.Y.S.	8 19	..	80.5		D	20	C was slightly displaced to violet. } Ca. See Note. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca.
	9 18	3	44.5		E	40	
	16		38		E	40	
	16		28		E	10	
	16		16		E	10	
	16		12		E	10	
	8 16		2		E	10	
	16			8	E	10	
	40			18	E	15±	
	13			38	E	10	
	13			42	E	15	
	11			56	E	10	
	29			80.5	W	20	
	9 18			28	W	15	
	8 26			16	W	20	
9 16			5	W	10		
8 24			8	W	15		
9 16			17	W	15		
16		7	31.5	W	50		
8 20			74	W	15±		
July 2. G.N.	8 36	...	49		E	50	Ca.
	36		48		E	10	Ca.
	34	2	41.5		E	65	
	34		25		E	10	
	38			1	E	15	

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks
			North.	South.			
1911.	n. m.	°	°	°		"	
July 10.	G.N.	2		28	W	40	Ca.
—contd.		7	28.5		W	60	
		1.5	68.5		W	20	Ca. Ca photographs 10 ^h 20 ^m and 11 ^h 25 ^m .
July 15.	S.S.	...	..	79.5	W	15	
		1	16	78.5	W	15	
		2	97		W	15	
					W	25±	Seeing bad. + 55°E to—65°E not examined. No prominence photographs.
July 20.	G.N.	...	54		E	35	
			46		E	30	
			44		E	30	Ca. Faint
			40		E	30	
			19		E	20	
			15		E	15	Ca. 30'' high at 8 ^h 42 ^m .
			4		E	15	Ca.
				1	E	30	Ca.
				20	E	15	
		10		48	E	30	
				68.5	E	15	
				85.5	E	25	Ca. Faint.
		1		82	W	30	Ca.
		2		54	W	25	
		3		48.5	W	20	Ca.
				31	W	10	Ca.
			5		W	15	
			7		W	20	Ca.
			18		W	10	
			20		W	15	
			20		W	100	Ca
			34		W	55	
		3	39.5		W	110	Ca photographs 8 ^h 21 ^m and 8 ^h 42 ^m .
July 21.	S.S.	3	...	49.5	E	50 ±	
		2		50.5	W	30	
		2		88	W	40	Three prominences close together.
		1		41	W	75	Ca.
		0.5	85		W	10	Seeing bad. Ca photograph, flocculus only, 7 ^h 55 ^m .
July 22.	S.S.	...	84.5		E	10	
			76		E	25	
		1	68.5		E	10	
		0.5	14.5		E	20	Faint.
		1		9	E	15	
		1		12	E	40	20'' high and surmounted by a streak 6° long in Ca.
		1		16.5	E	10	Ca. Slants south.
				24	E	25 ±	Slants south.
		8		45.5	E	45, 40	A group of three prominences.
				84	W	15	
		1		50	W	30	
		2		37	W	50	
		3		31	W	65	80'' high in Ca. } Connected.
				1	W	10	
			11.5		W	20	
			20		W	25	Ca. Faint.
		1	32		W	25	4° broad in Ca.
		0.5	48		W	15	
			52.5		W	10	Ca.
			54.5		W	30	Ca.
			68		W	10	Very faint. Passing clouds. Ca photographs, through cirrus, 8 ^h 25 ^m and 8 ^h 39 ^m .

Date and observer	Hour I.S.T.	Base.	Latitude.		Limb	Height.	Remarks	
			North	South.				
1911	H. M.	°	°	°				
July 24.	8 40	4		4	W	20, 30	Ca.	
	40	2	2		W	10	Ca	
	40	4	31		W	35	Ca No visual observations. Ca photograph 8h 40m; poor.	
July 25	A.Y.S.	9 34		42	E	15	O was slightly displaced to violet.	
		30		28	E	10		
		30	4	22		E		50 ±
		28	1	11.5		E		15
		25			32	E		20
	25			36	E		No prominence. C was slightly displaced to red. In Ca there was a prominence 20" high.	
	10 16	8		38.5	W	20		
	9 35			32	W	30		Ca. Faint.
	35	22		18	W	15, 30, 45		Ca. Portions were seen in C.
	35		33		W	20		Ca Seeing bad Ca photograph, through clouds, 9h 35m
July 26.	S.S.	9 14	...	88.5	E	15	Ca.	
		7		77.5	E	10		
		5	2	60.5	E	10		
		14		28	E	60	Ca. Upper part detached from lower.	
		0			15	E	10	
		14			20	E	10	Ca.
		14			36	E	10	Ca.
		8 55			48	E	15	} Connected and extend from -41° to -49° E in Ca.
		54	2		45.5	E	35	
		53			58.5	E	10		Very faint.
		9 14	7		67	E	10	Ca.
		8 50			68.5	W	15	
		50			68.5	W	15	
		9 26			48.5	W	30	
		25	1		48.5	W	15	
		14			42	W	15	Ca
		24	2		36	W	30	
22			27	W	20			
21	10		17	W	40			
17	8		34	W	50			
14			44.5	W	40			
14	1		50	W	30	Ca photographs 9h 14m and 8h 46m.		
July 27	G.N.	8 52	...	88.5	E	20	Ca.	
		48		79.5	E	25		
		52	3	33.5	E	90	Ca.	
		41		25	E	10		
		40		6	E	20		
		40	1	3.5	E	15		
		36	4		47.5	E	30	
		33			68.5	E	10	
		33			69.5	E	10	
		31			74.5	E	10	
		30			81	E	10	
		52			65.5	W	10	Ca
		53			43.5	W	10	
		52			17	W	10	Ca.
		9 21	3		20	W	15	Ca.
8 50	3		27.5	W	15			
48	2		34	W	45			
52	2		43.5	W	20	Ca		
46	2		64	W	10			
July 28.	A.Y.S.	10 54	1	54	E	45	Ca	
		9 28	1		19.5	E	20	
		28	1		48.5	E	15	
		26			61.5	E	10	
		8 25			65.5	E	20	
		22			75	E	15	
		10 46	1.5		57.5	W	25	Ca photographs 8h 52m and 9h 21m.
		44			28	W	20	

Date and observer.	Hour I.S.T	Base	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	°	°		"	
August 1. —contd.	S.S.	1		25.5	W	30	Gone at 9 ^h 24 ^m
		2		23	W	50	Ca. Two faint streaks extending westwards.
				4	W	45	Ca.
				1	W	10	Ca.
				Equator	W	15	
		4		44.5	W	40	Ca. A portion 15" high was seen in C.
				53	W	20	
		1		63	W	10	
				72	W	20	
				76	W	20	Ca. Ca photographs 8 ^h 54 ^m and 8 ^h 22 ^m through cirrus.
August 2.	A.Y.S.	1	53.5		E	30	
		1	50.5		E	10	Ca.
		1	48.5		E	10	
			43.5		E	50	Ca.
			40.5		E	15	Ca.
			30.5		E	25 ±	
			29		E	10	
			26		E	15	
			9		E	50	Ca. Detached.
				6	E	30	Ca.
			3	11.5	E	45	See Note.
				27	E	10	
			1	30.5	E	10	C slightly displaced to violet.
				38.5	E	10	
				54.5	E	10	
				78.5	E	30	} Ca.
				80	E	10	
				84	—	10	
				83.5	W	15	
				8	53.5	W	35
			48.5	W	30		
			39.5	W	25		
			34	W	10	Ca.	
			2	W	10	Ca photographs 9 ^h 28 ^m and 8 ^h 44 ^m .	
August 3	G.N.	1	52.5		E	30	
			39.5		E	10	Ca.
			35		E	50	Ca.
			24		E	25	Ca.
			15		E	60	Ca.
			6		E	15	
			2	50.5	W	60	
			1	47.5	W	30	
				44.5	W	30	
				5	W	20	Ca Ca photographs 8 ^h 49 ^m and 8 ^h 19 ^m .
		10	W	30			
August 4.	S.S.	...	68.5		E	20	
			41.5		E	60 ±	Ca. Very faint.
		2	11		E	30	Extends northwards and is connected to limb at + 17" E. in Ca.
				6	E	30	Only 15" high in Ca.
				81	E	25 ±	
				48.5	W	50 ±	
				81	W	30	
				24	W	50	Ca. Top extends both ways.
				3	W	15	Ca.
				Equator.	W	15	Ca. Small jets.
	5	57	W	15	Seeing bad. Ca photograph, flocculus only, 9 ^h 15 ^m ; fair.		
August 5	A.Y.S.	..	45.5		E	10	
			37		E	10	C slightly displaced to red.
		4		47.5	W	35 ±	60" high in Ca.
				43	W	10	
		2		28	W	55	Ca.
			22	W	55	Ca.	

Date and observer.	Hour I.S.T	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.							
August 5.	A Y.S.		24	..	W	80	Ca.
-contd.			34		W	15	Seeing bad Ca photograph, flocculus only, 9 ^h 4 ^m ; fair.
August 6.	A Y.S.		64.5		E	15	Ca.
			51.5		E	10	Ca.
			50.5		E	10	Ca.
		0.5	48.5		E	15	A Ca streak from the top 30" high meets the limb at + 38° E.
			40.5		E	15	
			30.5		E	10	
		3	19.5		E	30	
		1.5	15		E	15	
			12		E	20	Faint in C.
			Equator.		E	30	
		8	5.5		E	15	C slightly displaced to red.
			10		E	10	
			25		E	20	C slightly displaced to violet.
		1	26.5		E	20	
		8	38.5		E	20	Ca. Streaks.
			44.5		E	low.	} Connected in Ca.
			52.5		E	20 ±	
			64.5		E	15	
			78.5		E	20	C displaced slightly to violet over the whole prominence.
		6	47.5		W	45	
			40.5		W	10	
		9	28		W	45	Ca.
			21		W	30	Ca.
			19		W	20	Ca.
			15		W	40	Ca.
		5	22.5		W	50	90" high in Ca.
			27		W	20	
		1	38.5		W	80	Ca; seen only at 8 ^h 38 ^m .
			50.5		W	40	Ca.
							Ca photographs 9 ^h 36 ^m and 8 ^h 38 ^m .
August 7.	S.S.		78.5	...	E	20	
			47.5		E	80	
		5	18.5		E	20	D ₁ , D ₂ bright. C slightly displaced to violet in 2 places.
		1	5	5	E	15	
				27	E	70	
				30	E	20	
		1		41.5	E	45	} Only 20" high in Ca.
				48.5	E	45	
				48.5	E	15	
				78.5	E	10	
				74	W	10	
		6		44.5	W	45, 60	
			19		W	15	Ca.
		2	24		W	50	See Note. Ca photographs 8 ^h 9 ^m and 8 ^h 30 ^m .
August 8.	G.N.		48.5	...	E	10	
			22		E	20	Ca.
			18		E	15	Ca.
				6	E	70	} Connected at top by Ca streamers.
				9	E	80	
		2		42.5	E	50	
				45.5	E	10	Ca.
				81.5	W	10	Ca.
				78	W	10	Ca.
				70	W	10	Ca.
		10		48.5	W	85, 70	Ca; only part was seen in C.
				17	W	10	Ca.
		8	24		W	90	Ca. Detached.
			71		W	10	Ca photograph 9 ^h 3 ^m through cirrus.

Date and observer.	Hour L S T	Base.	Latitude.		Limb.	Height	Remarks.
			North.	South			
1911.	H. M	°	°	°		'	
August 9. S.S.	8 40		46.5		E	15	Ca
	40		34.5		E	15	Ca.
	40	1		14.5	E	20	Ca.
	32	1.5		25	E	25	
	31			36.5	E	15	
	30			42.5	E	20	
	40	1		44	E	50	Ca.
	40			46.5	E	20	Ca.
	51			49.5	E	20	Extends from - 43° to - 50° and is 30" and 40" high in Ca
	48		20.5		E	20	±
	40	6	27		E	60	±
							Ca. 3 arches superposed on one another in C. Ca photograph 8h 10m, poor.
August 10. A.Y.S.	9 47	..	64.5		E	10	
	46		49		E	15	
	18		36.5		E	15	
	10		31		E	10	
	10	5	24.5		E	45	
	4	2		17	E	15	
	3	0.5		29	E	30	
	3			33	E	10	
	2			37	E	80	±
	8 51	4.5		43.5	E	30	
	34			46.5	E	10	
	9 39	1		53	W	15	
	38			45.5	W	20	
	35	2.5		27.5	W	15	
	34	1		20	W	35	±
	31	2	27		W	35	±
	20	1	30.5		W	20	±
	18		38		W	10	
	17		79		W	15	
	48		81		W	15	
							Passing clouds. Ca photographs 9h 8m and 8h 8m; very poor.
August 11. G.N.	8 41	..	79.5	...	E	10	Ca.
	41		78		E	10	Ca.
	43		57.5		E	15	
	38	3	54		E	30	
	38	3	46		E	30	
	41		39.5		E	30	Ca.
	35		35.5		E	30	
	41	6	24		E	70	Ca.
	41			1	E	100	Ca.
	41	4		45.5	E	25	Ca.
	9 43			34.5	W	15	
	8 41			22	W	40	Ca. Streamers extend both ways.
	9 45	2		18	W	30	
	48	2		2	W	30	
	50	8		11	W	50	
	8 41			17	W	45	Ca.
	9 0			25	W	30	
	0			29	W	30	Connected at top in Ca
							Ca photographs 8h 41m and 8h 15m.
August 12. S.S.	9 24		56	..	E	20	
	45		53.5		E	40	
	45		49.5		E	45	
	45		45.5		E	20	
	45		42.5		E	20	Ca.
	45		39.5		E	10	
	45		25		E	30	
	14		6.5		E	20	3° broad in Ca
	45			8	E	20	Ca.
	52			43.5	E	35	
	48			56.5	E	10	
	48			61.5	E	25	

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	°	°		"	
August 12. —contd.	S.S.	...	...	81.5	E	10	
	44	...	...	80.5	W	10	
	40	2	Equator.		W	45, 60	Ca. Broken streaks.
	45				W	30	Ca.
	45		13		W	80	Ca. Detached.
	45		16.5		W	40	
	45		22		W		Seeing mostly bad. Ca photograph 8h 45m.
August 13.	A.Y.S.	...	74	...	E	10	
	50	4	49.5		E	60	Ca. An arch.
	28		23		E	10	
	50		10		E	30	Ca.
	25		8		E	15	See Note.
	50			3	E	10	Ca.
	23			32	E	10	50" high in Ca.
	22	5		43	E	40	
	21			54	E	10	
	21			57.5	E	10	
	50			60.5	E	30	Ca. Seen only at 8h 50m.
	20			74	E	15	
	38			56.5	W	15	
	37	1		43.5	W	15	
	36			37	W	10	
	50			30	W	10	Ca.
	35	4		21	W	15	Faint in C. 30" high in Ca.
	80		7		W	20	Ca.
	31		57		W	10	
	31		67		W	20	Ca photographs 8h 50m and 8h 8m.
August 14.	G.N.	...	57.5	...	E	15	Ca.
	37	2	49.5		E	35	
	45		41.5		E	20	Ca.
	32			80.5	E	10	Ca.
	45			11	E	45	Ca.
	45			15	E	45	Ca.
	32			17	E	20	
	30	1		33.5	E	105	
	80			36.5	E	30	
	30			38.5	E	80	
	30			40.5	E	30	
	25			80	E	15	
	45			77	W	15	Ca
	43	2		19	W	40	
	41		37.5		W	15	
	40		53.5		W	20	
	18	2	61		W	30	Ca. Only at 8h 18m.
	18		70.5		W	15	Ca. Do.
							Ca photographs 8h 45m and 8h 15m.
August 15.	A.Y.S.	...	83	...	E	15	
	29		42.5		E	75	Ca.
	15		36.5		E	75	Ca. Seen only at 8h 15m.
	16		2.5		E	10	
	16	1	0.5		E	20	
	29	1		37	E	80	Ca.
	29			78	W	15	Ca.
	38			75.5	W	15	O slightly displaced to violet.
	35	2		22	W	30	
	35	2		19	W	40	
	33			13	W	15	
	31		22		W	10	
	30		27		W	10	
	28	4	35.5		W	30	Faint in C. 8" broad and 75" high in Ca.
	24		47.5		W	10	
	29		60		W	15	Ca.
							(Observed through thin cirrus.
							Ca photographs 8h 29m and 8h 15m.
August 16.	G.N.	...	46.5	...	E	60	Ca. Detached.
	9 38		9		E	25	
	30			20	E	15	

Date and observer.	Hour I.S.T	Base.	Latitude		Limb	Height.	Remarks
			North	South			
1911.	H. M.	°	°	°		"	
August 16. —contd	G.N.						
	8 15		.	27	E	20	Ca.
	30			30 5	E	10	
	15			36 5	E	15	Ca.
	9 10			28	W	20 ±	
	45		19		W	90, 110	Ca
							Ca photographs 8 ^h 45 ^m and 8 ^h 15 ^m .
August 17.	A.Y.S.						
	8 30		89.5		E	low	Bright
	30		80		E	15	
	43		20		E	30	Ca.
	55		18		E	30	
	55		15		E	25	
	23		14		E	10	
	58		3		E	70	
	52	2		4	E	45	
	19			16.5	E	10	
	19			21.5	E	10	C slightly displaced to violet.
	50	1		45.5	E	20	
	43			47.5	E	10	Ca.
	50			50.5	E	10	
	49			57	E	15	Faint in C.
	48			82.5	E	low.	Bright.
	46			55.5	W	15	
	48	3		29.5	W	15	Ca.
	48			24	W	45	Ca.
	43	6		11	W	30, 20	A thin streak at the W. end is 20" high at 8 ^h 43 ^m and 70" high at 8 ^h 52 ^m .
	41			3.5	W	10	
	43			1	W	10	Ca.
	40		13		W	10	
	40		14		W	10	
	59		32.5		W	20	Faint in C.
	58	3	40		W	30	
	36		53.5		W	10	
	35	..	76	..	W	15	Seen in Ca only at 8 ^h 52 ^m . Ca photographs 8 ^h 43 ^m and 8 ^h 52 ^m .
August 19.	G.N.						
	8 58	..	39.5	..	E	15	
	46		21		E	30	
	46		18		E	30	Ca. Faint.
	46		16		E	20	
	46		15		E	20	
	55			7	E	10	
	48			22.5	E	30	Ca A detached streak.
	9 10	5		48	E	35, 50	
	8 46			75.5	E	10	
	46			73.5	E	15	
	46			49.5	W	15	
	46			47.5	W	40	Ca.
	46			40.5	W	45	
	46			29	W	15	
	46			24	W	10	
	9 5	8		8	W	20, 60	
	2	6	10		W	30	
	2		18		W	30	
	8 46		32.5		W	30	Ca.
	46		45.5		W	45	
	46		53.5		W	25	
							Seeing poor. Ca photographs 8 ^h 46 ^m and 8 ^h 34 ^m .
August 20.	G.N.						
	8 44	..	59.5		E	15	Ca.
	9 7		56.5		E	15	
	8 44	6	50.5		E	10	Ca.
	44		30.5		E	15	Ca.
	44			5	E	15	Ca.
	9 3	4		30	E	55	
	0	7		49	E	70	
	8 44			68	E	10	Ca
	9 30	4		43.5	W	55	
	27			36.5	W	50	

Date and observer.	Hour I.S.T.		Base.	Latitude.		Limb.	Height.	Remarks.
				North	South.			
1911.	h	m	°	°	°			
August 20. —contd.	G.N.	9 20	10		8	W	120, 80, 80, 45	
		15	9	16.5		W	60, 45	
		13		33.5		W	10	
		8 44	2	58.5		W	20	Ca
		44		75.5		W	15	Ca Ca photographs 8 ^h 44 ^m and 9 ^h 14 ^m .
August 28.	G.N.	8 31	3	38		E	15	Ca.
		47			6	E	15	
		45			12	E	65	
		45			16	E	15	
		45			22	E	45	
		45			30	E	20	
		40	8	49.5		W	30, 70, 90	
		19		72.5		E	30	Ca.
		19		78		E	40	Ca.
		19		81.5		E	10	Ca
		57	2	41		W	50	
		55	3	24.5		W	140	A steamer extends to + 16° W.
		31		30		W	50	Ca. } Connected at top.
		31		38.5		W	50	Ca. }
		52		45.5		W	15	
		52		46.5		W	15	Ca photographs 8 ^h 31 ^m and 8 ^h 19 ^m .
August 24.	A.Y.S.	10 11	..	78	...	E	30	Ca.
		11		73.5		E	15	Ca.
		9 5		68		E	10	
		10 11		61		E	25	Ca.
		9 4		49.5		E	25	Very faint in C.
		4		48		E	25	Do.
		3	2	28		E	30	
		10 11		24		E	40	
		11		19		E	30	
		11		15		E	60	Ca.
		11		9		E	30	
		7 59			6	E	30	Ca. Seen only at 7 ^h 59 ^m .
		9 0			9	E	20	C slightly displaced to red. Seen in Ca only at 9 ^h 10 ^m .
		8 50	4	14		E	30	45" high in Ca.
		52		20		E	30	
		51	2	25		E	90	Top extends to -16° E.
		49		33		E	15	
		48		44.5		E	15	Seen in Ca only at 7 ^h 59 ^m .
		10 11		65		E	80	A narrow faint streak slanting eastwards.
		9 24		75.5		E	10	
		31	2	47.5		W	30	
		31	2	43.5		W	30	
		10 11		32.5		W	15	Ca.
		9 28	1	25.5		W	20	
		26	3	19.5		W	30	
		10	1	5		W	20	Ca. Seen only at 9 ^h 10 ^m .
		23		24		W	40	
		21	2	31.5		W	25	80" high in Ca.
		21	1	35		W	25	45" high in Ca.
		12		42.5		W	30	Changing. Seen in Ca only at 9 ^h 10 ^m .
		8		57.5		W	10	Bright. C slightly displaced to red.
		10		64		W	40	Ca. Faint and seen only at 9 ^h 10 ^m .
		10 11		83		W	30	Ca. Ca photographs 10 ^h 11 ^m , 7 ^h 59 ^m and 9 ^h 10 ^m .
August 25.	G.N.	10 52	.	57.5	.	E	15	
		50	2	44		E	45	
		11 3		32.5		E	40	Ca. Faint.
		10 46	2	13		E	25	
		46		0		E	15	
		45	8		23	E	75	
		44	2		48.5	E	35	
		43			61	E	20	
		53	3		46	W	45	
		56			20	W	15	

Date and observer.	Hour I.S.T.	Base	Latitude.		Limb.	Height	Remarks.
			North.	South.			
1911.	h. m.	°	°	°		"	
August 25. G.N.	10 55	...	.	18	W	25	Detached.
—contd.	54	14	80		W	100,50,25	Ca. Only part seen in C. Ca photograph 11h 3m.
August 26. A.Y.S.	8 38	...	81	.	E	25	
	50		61		E	30	Ca.
	28		12		E	10	
	28		10		E	10	Faint.
	28		5.5		E	10	
	33			5	E	40	Ca.
	33			21	E	35	Ca. Detached.
	33	4		27	E	20	A small portion of this 15" high was seen in C.
	33			53.5	E	15	Ca.
	25			63.5	E	20	
	9 1			67	E	15	
	8 55	1		79	E	60 ±	See Note.
	50			82.5	E	35	Ca. Faint.
	52	3		45	W	40	
	50	1		30.5	W	15	Extends from -22° to -81° W in Ca.
	46	6	3		W	45	
	44		18		W	15	
	50	2	28		W	25	Ca.
	41		31.5		W	40 ±	Very faint in C. 90" high in Ca.
	50		36.5		W	100	
	39		39.5		W	50	
	37		55.5		W	30 ±	Faint in C.
	34		81		W	15	Ca photographs 8h 50m and 8h 11m.
August 27. A.Y.S.	9 2	...	58.5	...	E	15	
	10 10		30		E	20	
	12			13	E	15	
	11	2		19	E	20	Ca. A small arch.
	14			47.5	E	15	C slightly displaced to red.
	47			50	E	15 ±	
	11			60	E	35	Ca. A slender streak slanting eastwards.
	9 24			81.5	E	15	
	10 6		6		E	30	Top extends westwards in Ca. Seeing bad. Ca photograph 10h 11m, through thick cirrus.
August 28. G.N.	10 9	...	8	...	E	15	Ca photograph 9h 50m, through thick cirrus; cloudy.
August 30. A.Y.S.	10 5	1	45	.	E	40	
	48		42.5		E	30	Ca
	48	2	38.5		E	15	Ca. A small arch.
	48	3	32		E	70	Ca. Faint streaks.
	48		13		E	15	Ca.
	48			1	E	30	Ca.
	8 22	5		32	E	40	
	10 48			50.5	E	20	Ca.
	11			54.5	W	15	
	48	4		49.5	W	20	Ca.
	48	5		38	W	80	Ca.
	48			33.5	W	15	Ca.
	48			13	W	15	Ca.
	48	1	...	6.5	W	40	Ca.
	48		4		W	50	Ca. A slender streak from top flows to + 10° W.
	48	7	15.5		W	45	Ca. A small portion of this 25" high was seen in C.
	9 35		21.5		W	10	
	34		43.5		W	15	
	38	2	46.5		W	30	4° broad in Ca.
	10 48		81.5		W	30	Ca. Seeing poor. Ca photographs 10h 48m and 8h 12m.
August 31. G.N.	9 15	4	44.5	...	E	50	
	12		7		E	30	
	8 55			17	E	15	See Note.

Date and observer.	Hour I.S.T.		Base.	Latitude.		Limb.	Height.	Remarks.
	H.	M.		North.	South.			
1911.			°	°	°		"	
August 31. G.N. —contd.	8	52	7		32	E	45	
		36			81	E	30	Ca. Faint.
		36			78.5	W	30	Ca.
		36			64	W	30	Ca. Only at 8h 6m.
		36			58	W	30	Ca.
		36			53.5	W	10	Ca.
		36			45.5	W	20	Ca.
		36			43.5	W	10	Ca.
	9	16	3	18		W	10	Ca.
				21.5		W	75	Ca photographs 8h 36m and 8h 6m.
September 1. A.Y.S.	8	47	..	67.5		E	30 ±	Very faint.
		44		60		E	10	
		27		48.5		E	20	Ca.
		27	3	42		E	65	Ca.
		40		34.5		E	10	
		38		Equator.		E	25	O slightly displaced to violet over top.
		38	4	12		E	45	
		33		17.5		E	25	} Connected in Ca.
		31		22		E	30 ±	
		28		29		E	15	
		28	2	36.5		E	30	
		27		68		E	10	
		27		49.5		W	20	Ca.
		27		45.5		W	30	} Ca. Detached dots.
		27		43.5		W	20	
		57		41.5		W	15 ±	
		27		38.5		W	30	Ca. A detached dot
		27	2	28		W	30	Ca.
		27		4		W	15	Ca. Slants southwards.
		55		5		W	10	
		27		7		W	10	Ca.
		27	4	19		W	45	Ca.
		52		47		W	10	
		27	2	67		W	40	Ca.
		51		75.5		W	20	Seeing poor. Ca photograph 8h 27m, through cirrus.
September 3. A.Y.S.	9	9	...	31	..	E	20 ±	
		9		26.5		E	10	
		20			25	E	10	Bright. O was slightly displaced to violet.
		6			37.5	E	10	
		19	5		42	E	45	
		5			61.5	E	10	
		17	2		51.5	W	30	
		15			43.5	W	20	
		13		23		W	25	
		41		28		W	45	Ca.
		12		48		W	20 ±	
		24		66		W		No prominence. O was displaced to red 1 A. Seeing poor. Ca photographs 9h 41m and 9h 29m through cirrus.
September 4. A.Y.S.	9	16	1	59	.	E	15	
	8	53		29		E	70	Ca.
	9	10			10	E	10	
		9			21	E	15	
		8			33.5	E	10	O slightly displaced to red at base.
		7			35.5	E	40	
		7			38.5	E	40	
	8	53			41	E	40	} Connected in Ca.
		53			43	E	40	
		53			45.5	E	40	Ca.
	9	6			48.5	E	15	
		6			50.5	E	10	
		31			50.5	W	40	A Ca streak meets limb at — 46° W.
		30			43	W	10	
		28		28		W	20	
		27		68		W	10	Seeing poor. Ca photograph 8h 58m, poor

Date and observer	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1911.	H. M.	°	°	°			
September 5. G.N.	9 5		22	...	E	10	
	9 3		19		E	20	
	8 20			26	E	30	Ca.
	20			28	E	30	
	20	1		44.5	E	30	Ca. Faint.
	20	4		45.5	W	40	
	20			7	W	15	
	20			27	W	90	
	45			68	W	20	
	September 6. A.Y.S.	8 34		81.5	...	E	10	Seeing poor. Ca photographs 8h 20m and 9h 53m both poor, and the latter incomplete.
33			66		E	15	Almost detached.
30			47.5		E	60	Ca. A streak bending and meeting the next prominence.
30			89.5		E	15	
30		2	37.5		E	60	Faint in C.
29			26		E	10	Do.
28			19		E	15	
28		1		4.5	E	15	
26		3		29.5	E	35	
23		4.5		40	E	70	See Note.
31				63	E	25	Ca.
40		9		44	W	35	
38				20	W	30	Faint in C.
31				19	W	15	Ca.
31				17	W	10	
31				11	W	10	Ca.
36				29	W	35	
31		1		31	W	25	Faint in C. 60" high in Ca.
31			50.5	W	20	Ca.	
31			61	W	40		
35	1.5		69	W	10	Ca photographs 8h 31m and 8h 44m.	
September 7. A.Y.S.	10 0	..	61.5	..	E	15	
	0		60		E	10	
	11 10		36.5		E	35	Top broader and extends both ways.
	8		18.5		E	25	
	9 58			27.5	E	15	
	57			41.5	E	40	60" high in Ca.
	11 17			48	E	40	Seen only at 11h 17m.
	10 9		13.5		W	20	
	11 13		25		W	10	
	10 3	2	68		W	25	On photograph, Hecolus, 11h 16m.
September 8. A.Y.S.	8 50	.	83	...	E	20	Faint.
	47		60.5		E	15	Ca.
	47		47.5		E	15	Ca.
	49	1	38.5		E	15	
	46		31.5		E	120	See Note.
	45	1	25.5		E	20	
	47		10		E	10	Ca.
	47		5		E	15	Ca.
	45	2		3	E	15	
	44			8	E	20	
	43			30.5	E	15	
	41	2		44.5	E	60	Only 45" high in Ca.
	39			48.5	E	30	
	38			58	E	10	
	38			61	E	10	
	9 2			77	E	15	
	2			81.5	W	10	C slightly displaced to red at base.
	1			63	W	10	
0			60	W	10		
8 58			52.5	W	50	Very faint in C. Only 15" high in Ca.	
58	2		50.5	W	20		
58			20	W	10		

Date and observer.	Hour I.S.T.		Base.	Latitude.		Limb	Height.	Remarks.
				North.	South.			
1911.	H.	M.	°	°	°		"	
September 8. A.Y.S. —cont'd	8	56	1		10	W	15	Faint in C.
		54	1	14.5		W	20	Ca streaks 45" high meet limb at + 11° W.
		55		56.5		W	10	
		52	1	67.5		W	15	
		47		82.5		W	15	Ca. Ca photographs 8 ^h 47 ^m and 8 ^h 8 ^m .
September 9 ..	8	9	..		9	E	60	} Ca. No visual observations. Ca photograph, focculus only, 8 ^h 9 ^m .
		9	5		47	E	45	
		9			54.5	E	15	
		9			58.5	E	15	
		9	2		23	W	50	
		9		9		W	40	
		9		11		W	40	
		9		12		W	15	
		9		53.5		W	80	
September 10. A.Y.S.	10	0		83		E	15	} Ca. Ca. 3 faint streaks. Seeing bad. Ca photograph, focculus plate, 9 ^h 59 ^m .
		2	1	15.5		E	25	
		2	1	11.5		E	25	
		0			13.5	E	20	
	9	59			39.5	E	40	
		59	5		51	E	30	
		59			50.5	W	20	
September 11 ...	8	36	7	...	41	E	60	} Ca. No visual observations. Ca photograph 8 ^h 36 ^m .
		36			76	E	45	
		36	3		49	W	50	
		36	2		30.5	W	45	
		36	4		22	W	60	
		36		41.5		W	40	
		36		44.5		W	40	
		36		68		W	30	
September 12. G.N.	8	5	...	79.5		E	15	} Ca. Ca. Only 35" high in Ca. } Ca. Ca } Joined at top. Ca. Ca. Ca. Ca. Ca. Ca. Ca photographs 8 ^h 5 ^m and 8 ^h 30 ^m .
		5		04		E	15	
		42	4	48.5		E	50, 65	
		5		41.5		E	30	
		5		21		E	10	
		5		19		E	10	
		39	4	11		E	15	
		5		0		E	15	
		35	12		40.5	E	45	
		5			60	E	45	
		5			68	E	45	
		53	4	48.5		W	45	
		45		34.5		W	15	
	8	5	1		32	W	20	
		5			22	W	75	
		5			24	W	15	
		47	3	43		W	45	
		5	1	70.5		W	15	
		30	2	79.5		W	30	
September 13. A.Y.S.	8	24	..	83		—	15	} Ca. Ca. Faint and 45" high in Ca. } Connected by Ca jets. Only one degree broad and 30" high in Ca.
		24		79.5		E	10	
		57	1	76.5		E	20	
		53		67.5		E	15	
		53		64.5		E	20	
		53	2	61		E	10	
		53		57		E	10	
		52	1	48		E	20	
		52		43.5		E	20	
		48	9	22.5		E	35, 65	
		46	3		14.5	E	50	

Date and observer.	Hour I.S.T		Base.	Latitude.		Limb	Height	Remarks.
				North.	South.			
1911.	H	M.	°	°	°		"	
September 13 A.Y.S. —contd.	8	24		..	18	E	15	Ca.
		24			19	E	15	Ca.
		42	1.5		30.5	E	40	Faint in C.
		42			31.5	E	100	Only 40" high in Ca.
		42			36.5	E	100	See Note
		40	3		45	E	30	
		38			60.5	E	15	
		9 14	1		74	E	15	
		12	1		74.5	W	20	
		24			52.5	W	30	} Ca.
		24			48.5	W	15	
		24			39.5	W	15	
		9 9	6		39.5	W	35	
		8 24			24	W	40	} Ca.
		24		4		W	20	
		24		20		W	15	
		9 6	1	24		W	15	
		5		33.5		W	15	Surmounted by a Ca detached cloudlet 50" high.
		5	1	36		W	20	60" high in Ca.
		3	7	46		W	60	
		8 24		55.5		W	15	Ca.
		58		80		W	15	
		58		81.5		W	15	
	58		82.5		W	15	Ca photographs 8 ^h 24 ^m and 8 ^h 5 ^m .	
September 14. G.N.	10 34	...	33.5	...	E	15		
	6 0		21		E	45	Ca. Detached.	
	0				E	90	Ca.	
	10 43				E	40		
	8 0				E	80	Ca.	
	10 38	4			E	40		
	8 0				W	40	Ca.	
	0				W	20	Ca.	
	10 58	3			W	45		
	51	7			W	30		
	8 0			37.5		W	45	} Ca.
	0			39.5		W	45	
	0			48.5		W	20	
0			51.5		W	15		
0			54.5		W	10		
10 47			64		W	10	See Note.	
							Ca photographs 8 ^h 0 ^m and 8 ^h 14 ^m .	
September 15, A.Y.S.	9 32	0.5	59	..	E	15		
	32		45		E	10		
	31	1	39.5		E	20		
	30		25		E	10		
	45	2	23		E	45	Ca.	
	45		21		E	40	Ca.	
	29	1.5		3		E	20	
	29			23.5		E	25	3° broad and 60" high in Ca.
	27			37		E	10	
	8 40			44.5		E	15	
	9 48			68		E	20 ±	Faint in C.
	28	1		80		E	20	
	24			64		W	10	
	45			41.5		W	10	Ca
	41	4		32.5		W	55	
	36	1	11.5			W	30	} Connected by a Ca streak.
8 59	1	15.5			W	15		
9 45	1	21.5			W	30	Ca.	
45		36.5			W	30	Ca.	
35	3	42			W	60		
56	1	59			W	20	Ca photograph 9 ^h 45 ^m ; poor.	
September 16. G.N.	8 8	..	18	..	E	50	Ca. A streamer extends to + 24°.	
	8				E	10	Ca.	
	8	3			E	70	Ca.	
	9 0	4			E	30		

Date and observer	Hour I S T.	Base.	Latitude		Limb	Height.	Remarks.
			North.	South			
1911.	H M		"	"		"	
September 16. G.N. - cont'd.	9 8	1		47	W	15	
	8 40	0	18		W	45	
	40	5	27.5		W	50	Seeing poor Ca. photographs 8 ^h 8 ^m and 8 ^h 38 ^m .
September 17. A.Y.S.	8 42		74		E	10	
	41		60		E	10	
	41	2	58.5		E	15	80" high in Ca.
	39		33.5		E	25	
	37	1	27.5		E	10	
	37		24		E	15	
	37	3	19.5		E	35	75" high in Ca.
	45		8		E	10	Ca.
	15		8		E	10	Ca.
	36		8.5		E	20 ±	Ca. slightly displaced to red at base
	35			7.5	E	15	
	45			27	E	20	Ca.
	34	2		41.5	E	70	
	30			45.5	E	10	
	30	2		47.5	E	30	
	58			82	W	10	
	15			78.5	W	10	Ca.
	57			59.5	W	10	
	45			58.5	W	10	Ca.
	51	9		43	W	40	
52			23	W	30		
51			8	W	15		
48	9		24.5	W	80		
46	1		34	W	20 ±	Ca.	
45			35.5	W	10	Ca.	
45	2		39.5	W	40		
45			63	W	30	Ca.	
44			81.5	W	10		
							Ca photographs 8 ^h 45 ^m and 9 ^h 31 ^m .
September 18.	11 50	3	.	49	E	45	} Ca.
	50	1		35	E	40	
	50		23		E	35	
							No visual observations. Ca. photograph 11 ^h 50 ^m .
September 19. A.Y.S.	8 26		72.5		E	15	Ca.
	13	1	68.5		E	20	
	40		50.5		E	15	
	40	3	44.5		E	25	15" high in Ca.
	40		33.5		E	10	
	30		11		E	15	
	30			9	E	10	
	30			8	E	35	A Ca streak from top almost meets the prominence at - 16" E.
	30			11	E	25	
	30			16	E	20 ±	Ca.
	26			27	E	15	
	27	8		48.5	E	80	
	9 19			81	E	10	
	18	2		35.5	W	30	
	8 26			30.5	W	15	Ca.
	26			29	W	15	Ca.
	9 16			9	W	20	Broader at top.
15			2	W	10		
15	1.5		13	W	15		
14	4		22	W	45		
14			25.5	W	10		
11	2		30	W	25		
11	2		33.5	W	25		
5	4		40.5	W	15	Small jets.	
5			54.5	W	10		
8 57	2		63	W	15		
53			78.5	W	15		
							Ca photographs 8 ^h 20 ^m , 8 ^h 37 ^m and 9 ^h 20 ^m
September 20.	8 26		71.5		E	15	} Ca.
	26		67		E	10	

Date and observer.	Hour L.S.T.		Base.	Latitude.		Limb.	Height	Remarks.
	H	M.		North	South.			
1911.								
September 20 -condt.	8	26	.	55.5		E	15	Ca. Ca. Joined at top. Ca. No visual observations. Ca photograph 8 ^h 26 ^h
		26		49.5		E	15	
		26		44.5		E	15	
		26		10		E	15	
		26			7	E	45	
		26			11	E	45	
		26	1		15.5	E	30	
		26	8		47.5	E	30	
		26	1		45	W	35	
		26			30.5	W	20	
		26			29	W	30	
		26	4	22		W	45	
		26		30.5		W	30	
		26	2	33.5		W	35	
		26	4	47.5		W	35	
		26		55.5		W	20	
		26		33		W	15	
September 22. A.Y.S.	8	16		40.5		E	15	60" high in Ca Faint at 8 ^h 12 ^m . About 40" high at 8 ^h 44 ^m , 60' high in Ca. Chromosphere slightly elevated. In Ca there is a prominence 15" high. Ca. Ca. Ca. Only 15" high in Ca. Ca. Faint. Faint in C. Top extends both ways. A streak 60" high connects these and meets limb at + 19° in Ca. Seeing poor. Ca photographs 8 ^h 5 ^m and 8 ^h 18 ^m
		16		37.5		E	20	
		16	1	34		E	15	
		16	1	31		E	25	
		16	1	27		E	30	
		14		10		E	10	
		13		4		E	10	
		12			8	E	20	
		11			18	E		
		10		33.5		E	10	
		42		37.5		E	15	
		5		39.5		E	10	
		39		52.5		W	15	
		5		49.5		W	10	
		38	3	44.5		W	30	
		5	2	37.5		W	15	
		36		34.5		W	30	
		5		30		W	30	
		32		22		W	20	
		32		20		W	45	
		30	1	5.5		W	25	
		28		16		W	10	
		25		26		W	30	
		25	1	28		W	25	
		23	2	30.5		W	20	
		23	1	33		W	15	
September 23. A.Y.S.	8	48	1	33	...	E	10	Ca. Ca. Ca. Ca. A detached jet. Ca Seen only at 10 ^h 0 ^m . Ca. } Connected.
	9	22		56.5		E	20	
	8	32	2	48.5		E	50	
		32		46.5		E	20	
		30	2	43.5	..	E	30	
	9	2	2	39.5		E	35	
		22		35.5		E	60	
		22		26		E	30	
	8	46		24		E	10	
		29		15.5		E	15	
		27		6		E	10	
		45	1		14	E	15	
	9	0			34.5	E	20	
		22	7		56	E	55	
	8	43			60	E	10	
		53			76	E	20	
		57	5		48	W	40	
	9	22	5		37	W	50	
		22			30	W	135	
	10	0			28	W	60	
	8	52			10	W	10	
	8	52			4	W	10	
		51	2	26		W	35	
		9		27		W	10	

Date and Observer.	Hour I.S.T		Base.	Latitude.		Lamb.	Height.	Remarks.
	H.	M.		North.	South.			
1911.								
September 23. A.Y.S. —contd.	9	22	1	28.5		W	60	
		22		31.5		W	45	Ca.
		22	2	39.5		W	20	Ca.
	8	40		59.5		W	20 ±	Observed through thin cirrus. Ca photographs 9 ^h 22 ^m and 10 ^h 0 ^m .
September 24. A.Y.S.	9	4	..	67.5		E	20 ±	
	10	12	2	38.5		E	180	Ca.
		12		35.5		E	10	Ca.
		12		33.5		E	15	Ca.
	9	12	1		1.5	E	15	C slightly displaced to violet
	10	12	4		24	E	45	Ca. A small portion was seen in C.
		12	4		46.5	E	20	Ca, do. do.
		12			53.5	E	45	Ca. A streak meets lamb at -68°E.
	9	22			66	E	10	
	10	12			47.5	W	30	
		12	5		43	W	50	} Ca.
		12	1		26.5	W	50	
	9	20			18.5	W	10	
		17		24		W	15	
	10	12		38.5		W	20	Ca.
	9	7		41.5		W	10	
		6	2	58.5		W	30	Only 15" high in Ca.
	10	12		60		W	10	Ca.
	9	15		83		W	10	Seeing poor. Ca photographs 10 ^h 12 ^m , 8 ^h 44 ^m and 9 ^h 41 ^m .
September 25 G.N.	8	50	1.5	57.5	...	E	15	
		48		17		E	60	Ca.
		26		15		E	00	
		45			22.5	E	20	
		15			24	E	20	Ca.
		26			54.5	E	10	
		50	4		42.5	W	60	
		57			24	W	15	
		57	2		20	W	15	Ca.
		26		0.5		W	45	
		55		33.5		W	15	
		55		85.5		W	40	Ca photographs 8 ^h 20 ^m and 8 ^h 52 ^m .
September 26. S.S.	8	51	...	72		E	20	
	9	18	2	48.5	...	E	15	
		16		31.5		E	20	
		16		30.5		E	20	
	8	9		24		E	15	Ca. Detached.
	9	14	4	21		E	10	
	9	18	2	6		E	85	
		11		2.5		E	15	
	8	48				E	20	
		48			8	E	20	
		46	2		9.5	E	45	
		45	2		26	E	30	} Connected in Ca.
		43			31.5	E	15	
		41			50.5	E	10	
		9			72	W	30	Ca.
	9	38			78	W	10	
		8			78	W	20	
		6	2		64.5	W	60	
		6	1		48.5	W	65	105" high in Ca.
		2			40	W	10	
		2			38.5	W	10	
		1			32.5	W	10	
		0			14.5	W	20	
	8	9	1		9.5	W	60	Ca.
		58		19.5	8	W	35	
		9	4	28		W	60	Ca.
		9		27		W	10	Ca.
		9		29		W	10	Ca.

Date and observer.	Hour I.S.T	Base	Latitude.		Limb	Height	Remarks.
			North.	South.			
1911	H M.	°	°	°		"	
September 26 S.S.	9 56		42.5		W	10	
—contd.	55	2	47.5		W	30	Ca photographs 8h 9m and 8h 24m.
September 27 A.Y.S.	8 47	5	13.5		E	15	
	7		6		E	15	Ca
	46			12	E	15	
	45	1		17	E	15	
	45			20	E	10	
	38	3		33.5	E	30	
	37	1		50.5	E	20	
	36			68	E	30	
	9 28	1		46	W	20	
	28	5		41	W	50±	105" high in Ca.
	8 7			8	W	20	Ca
	9 2			5	W	15	30" high in Ca.
	8 56	3	22.5		W	40	80" high in Ca.
	53	1	35.5		W	60	In Ca at 8h 31m, top inclined northward and connected to limb at + 41° W.
	49		82		W	30±	Ca photographs 8h 7m and 8h 31m.
September 28. G.N.	7 53	.	48.5		E	30	
	53		45.5		E	15	
	53			20	E	30	} Ca.
	53	4		36.5	E	40	
	53			45.5	E	20	
	10 12	2		51	E	20	
	7 53			40.5	W	25	
	53	2		37.5	W	30	
	53	3	15.5		W	40	Faint } Ca
	10 20		22		W	45	
	20		24		W	35	
	7 53		69		W	20	
	53		70		W	20	} Ca.
	53		83		W	15	
							Seeing bad. Ca photograph 7h 53m.
September 29. S.S.	9 16		67		E	30	
	14	2	42.5		E	25	40" high in Ca.
	14		39.5		E	15	
	12	2	28		E	40	
	12	6	21		E	60	} Tops connected
	8		3		E	25	10" high in Ca.
	6			1	E	15	
	8 42			24	E	20	
	41	3		37	E	40	
	50	0.5		40.5	E	20	Ca.
	39			55.5	E	10	
	39			57.5	E	10	
	37			65.5	E	15	
	37			66.5	E	10	
	36			70.5	E	15	
	32	1		69	W	20	
	9 0	3		48.5	W	20	
	8 55	0.5		31.5	W	20	35" high in Ca.
	50			30	W	20	Ca.
	50			28.5	W	60	Ca. A detached streak 3' long.
	53			26	W	80	Ca. Detached.
	49	2	59.5		W	15	
					W	25	
							Ca photographs 8h 50m and 8h 19m.
September 30 A.Y.S.	8 43	4	42.5		E	30	
	44		26		E	25	
	42	4	20		E	45	Ca Faint and seen only at 8h 44m.
	32		11		E	15	30" high and 2°.5 broad in Ca.
	32	1	8		E	30	
	31		2		E	10	See Note.
	31			8	E	20	
	31	1	22.5		E	40	Ca. Faint
	29	7	38		E	25, 40	25" only in Ca.

Date and observer.	Hour I.S.T		Base.	Latitude.		Limb.	Height.	Remarks.
	H	M.		North.	South			
1911.			°	°	°		"	
October 5.	A.Y.S.	9 40	1	.	45	E	15	Top extends to south.
—contd.		11 19			45	W	15	Passing clouds. No prominence plates.
October 6.	S.S.	10 0	.	29°5	...	E	15	
		9 58	2	22		E	15	
		10 20	6		9°5	E	10	
		15	2		45°5	E	60 ±	See Note.
		23	2		78°5	W	10	
		11	2		48°5	W	25	Ca.
		10			40°5	W	10	1° broad and 20" high in Ca.
		23			28	W	40	Only 15" high in Ca.
		26		21	20	W	40	Ca.
						W	20	Ca.
								Seeing poor Ca photograph 10h 26m, poor.
October 7.	G.N.	7 58	...	76°5	..	E	10	
		58		74°5		E	10	} Ca.
		58		21		E	15	
		8 37			14	E	15	
		35	2		48°5	E	30	
		9 5			59°5	E	15	
		2			59°5	W	15	
		7 58			20	W	30	} Ca.
		58			24	W	30	
		58			21	W	30	
		58		9		W	10	Ca.
		8 45		14		W	25	
		40		29		W	10	
		7 58		34		W	25	Ca.
		8 42		38		W	10	
								Seeing poor. Ca photograph 7h 58m.
October 8.	S.S.	8 49	..	82	...	E	10	
		23	0.5	73		E	30	Ca.
		47		61°5		E	20	
		23	3	57		E	15	Ca.
		45	2	49°5		E	50	25" high and base less than 0°5 in Ca.
		23	3	4°5		E	20	Ca.
		39			26	E	15	
		39			29	E	15	
		37	0.5		37°5	E	45	Ca streaks extend both ways from top.
		37	1.5		42°5	E	50	
		37			46°5	E	50	} Connected and 60" high in Ca.
		37	3		49°5	E	40	
		29			73°5	W	Low	20" high and C slightly displaced to red at 9h 5m.
		29			66	W	10	
		29			62°5	W	20	
		9 3	1.5		43°5	W	15	
		2	0.5		33	W	15	
		0	1		22	W	60	A streak extends southwards and meets limb at - 27° W. in Ca.
		8 23		6	...	W	15	} Ca.
		23		17		W	15	
		23		23		W	10	
		23		47°5		W	10	
		23		48°5		W	10	
		23	0.5	65		W	10	
		23	0.5	77°5		W	10	
		23		83		W	10	
								Ca photograph 8h 23m
October 9.	A.Y.S.	8 35	...	47°5	...	E	25	Only 10" high in Ca.
		34		38°5		E	10	
		4		9		E	10	Ca.
		32		4		E	15	30" high in Ca.
		31			0°5	E	15	
		30			21	E	25	
		29			33	E	10	
		27	8		46°5	E	60, 30	
		47			63	E	10	
		25			67	E	10	

Date and observer.	Hour I.S.T.	Base.	Latitude		Limb	Height	Remarks.
			North	South			
1911.	H M.	°	°	°		"	
October 12. A.Y.S. —contd	7 58		54.5		W	10	Ca. Observed through breaks in clouds. Ca. photo- graphs 7 ^h 58 ^m (incomplete); 8 ^h 37 ^m (streaked with cloud).
October 13 S.S.	7 57	...	63.5		E	45	} Ca
	57		38.5		E	10	
	57	3	32.5		E	15	} Connected and 45" high in Ca
	9 5		28		E	30	
	5		26		E	30	
	5		24		E	30	
	5		22		E	30	
	5		20		E	30	
	7 57	3	17.5		E	50	Ca
	8 58			2.5	E	10	
	7 57	0.5		13	E	15	Ca.
	8 51			18	E	30±	Disappeared at 8 ^h 55 ^m .
	22	1		20	E	20	Ca. Seen only at 8 ^h 22 ^m .
	22	3		24.5	E	10	Ca. do. do.
	49	8		49.5	E	00	
	45			63.5	E	10	
	42			82	W	10	
	42			80	W	15	
	41			78.5	W	10	
	9 20			42.5	W	20	70" high and extends to -- 38°W in Ca
	7 57	1		28.5	W	20	Ca.
	57			12	W	50	Ca. A detached streak 2° long
	57	8		11.5	W	20	Ca, slants north
	57	1		1	W	15	Ca
	9 17	2	2		W	15	
	7 57		5		W	30	Ca. Extends to +11° W.
	9 18		11		W	15	
	7 57	0.5	13		W	30	
	57		20		W	35	} Ca
	57	0.5	25		W	10	
	57	1	30		W	10	
	57		48.5		W	15	Ca photographs 7 ^h 57 ^m and 8 ^h 22 ^m .
October 14. G.N.	8 45		65.5		E	10	
	44		58.5		E	20	
	40		48.5		E	15	Ca.
	40	4	24		E	60	
	30		13		E	25	Ca
	30			12	E	10	Ca.
	35			35	E	10	4 jets.
	30			39.5	E	30	Ca.
	35	7		46	E	50±	
	30			55.5	E	20	Ca. Faint.
	90			62.5	W	60	Ca. Faint.
	30	3		41	W	20	} Ca.
	30			12	W	70	
	30			7	W	70	
	52	7	3.5		W	30	
	50		9		W	15	} Connected by a Ca streak.
	50		13		W	10	
	48	2	35		W	65±	
	48	1.5	38.5		W	35	
	30	1	44		W	20	Ca. Ca photographs 8 ^h 30 ^m and 8 ^h 42 ^m .
October 16. S.S.	8 22	0.5	56.5		E	15	} Ca
	22	1	49.5		E	15	
	22		31		E	30	
	9 45		0.5		E	10	} Ca
	8 22			17.5	E	120±	
	22			35	E	45	
	9 40	2		48.5	E	40	25" high in Ca.
	40			50.5	E	10	
	10 31	1		54.5	W	40±	Not in Ca.
	8 22			42.5	W	20	Ca.
	22			7	W	15	Ca

