

Kodaikanal Observatory.

BULLETIN No. XXIII.

LIST OF PROMINENCES OBSERVED BETWEEN 1910 JANUARY 1 AND 1910 JUNE 30.

This list is a continuation of that published in Bulletin No. XXI. and contains all the prominences recorded both visually and photographically during the first half of 1910.

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	..	..	..	..	..	..	..	..	136
Partial do do.	..	..	..	..	..	..	..	..	29
No do do.	..	..	..	..	..	..	..	..	16
Complete spectroheliograph records	..								160
Partial do do	..	..	..	..	..	..	..	..	14
No do do.	..	..	..	..	..	..	..	..	7

Date and observer.	Hour L.S.T.	Base.	Latitude		Limb.	Height.	Remarks.
			North.	South.			
1910	H. M.	°	"	"		"	
January 1. A.Y.S	9 2	..	84		E	15	Ca.
	2		75.5		E	10	Ca.
	8 41		55		E	15	
	39		39		E	40 ±	See Note 1.
	37	2	38		E	45	
	37		28		E	15	Consists of faint streaks 75" high in Ca.
	33	2	24		E	10	
	29		16		E	40, 60 ±	See Note 2.
	9 2		7.5		E	75	Ca. A small detached cloud seen only at 9h 2m.
	8 24	1		12.5	E	15	
	20			36	E	15	
	20	1		39.5	E	40	Faint.
	9 2			41.5	E	45	Ca
	8 18	1		73	E	20	
	16			85.5	E	10	
	59			60	W	10	
	9 2	2		58	W	20	Ca. Faint.
	8 58	2		25	W	30	At 16h 10m in Ca, it was separated from the limb, and was 150" high.
	9 2			5	W	15	Ca
	8 54	1	2		W	20	In Ca at 9h 2m this was a cloud 120" high, and connected to limb by a fine streak.
	50	3	15.5		W	20	See Note 3
	47	2	29		W	25	A thin Ca streak flows northwards from top
	45		37		W	20	
	44	2	46		W	35	Very bright in Ca.
	9 14		79.5		W	30	Ca. Seen only at 9h 14m.
	2		84		W	30	Ca.
							Ca photographs 9h 2m, 9h 14m, and 16h 10m.
January 2 A.Y.S	9 40		57	..	E	20 ±	
	8		50		E	20 ±	

Date and observer	Hour L.S.T	Base.	Latitude		Limb.	Height	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
January 2. A.Y.S.	9 4	...		67	W	10 ±	Only a small prominence 10" high at 9h 50m. 15" high in Ca. Only a degree broad in Ca
—contd.	18	2		34.5	W	20 ±	
	0	2.5		27.5	W	20	
	0			22	W	10	
	47		9		W	25 ±	
	45		33		W	10	
	40	1.5	48.5		W	25	
	43		54		W	15	Ca photographs 9h 39m (focculus), 9h 24m (prominence) poor.
January 3. A.Y.S.	9 56	2	.	42	E	20	Ca. Northern portion faint Very poor weather Ca photograph (focculus) 10h 10m
	10 10			62	E	15	
	10		32		W	15	
	7		38		W	10	
	8	5	50.5		W	15, 25	
January 4.	15 42	...		40	E	15	Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. No visual observations Ca photographs, (focculus only), 15h 42m and 15h 40m.
	42			42	E	15	
	42	7		14.5	W	20	
	42		Equator.		W	10	
	42	3	4.5		W	10	
	42	0.5	14		W	10	
	42	0.5	16		W	10	
	42		20		W	15	
January 6. S.S.	8 32	.	64.5		E	10	Ca. Faint Ca. A small arch Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Seeing poor. Ca photographs 8h 8m and 8h 16m. Fair
	8	0.5	35		E	30	
	27	1	19		E	40	
	8	1.5		16	E	10	
	23	1		41	E	10	
	22	5		47.5	E	30	
	21	1		53.5	E	15	
	8			55	W	20	
	52	1		19	W	25	
	45	1	9		W	50	
	43		19		W	10	
	42	1	33		W	10	
	37	1	55		W	25	
	8	1	68.5		W	20	
January 7. A.Y.S.	8 26	8	20		E	25, 30	25" and 50" high in Ca Ca. Ca. Faint; small portions of this 15" high were seen in C. Ca. 60" high in Ca. Ca. Ca. Ca. Faint. Ca. Top slants westwards. Ca. Meets the last. See Note 1. See Note 2. Ca. Double. C was slightly displaced to red at base. See Note 3.
	5	9	11		E	20	
	5		2.5		E	35	
	14	7		50.5	E	40	
	5			77.5	E	10	
	8			79	E	15	
	8			82	E	15	
	5			80	W	15	
	5			79	W	10	
	5			89	W	20	
	9 15			38.5	W	15	
	8 5	8		30.5	W	30	
	5			28	W	15	
	9 14			22	W	10	
	8 55	5		17.5	W	40, 80	
	49	12		6	W	40	
	33		74		W	25	
	40	11	59.5		W	60, 90	
	.5		48		W	15	
	45	1	9.5		W	20	
January 8. S.S.	8 55	.	72.5		E	10	Ca
	52	0.5	68.5		E	10	

Date and observer.	Hour I S T.	Base	Latitude		Limb	Height	Remarks.
			North	South			
1910.							
January 8.	S.S.						
— cont'd.							
	H. M.	°	°	°		"	
	8 52		83 5		E	15	Ca
	50		28		E	20	In Ca it bends and meets limb again at +80° E
	52	3	24 5		E	45	Ca.
	52		10		E	30	Ca Slants north
	45			34	E	10	
	48			42	E	10	
	40	2		47	E	30	} Connected in Ca
	40	2		54	E	35	
	35			74.5	E	15	
	52			72.5	W	10	Ca.
	52			70.5	W	15	Ca.
	52			52	W	30	Ca.
	9 11			38	W	10	
	8 52			19	W	40	Ca. Two streaks
	52	1		12	W	10	Ca
	9 9	1.5		9	W	10	C and D ₃ were slightly displaced to violet at top.
	8 52			1	W	40	Ca faint. Slants up to -6° W.
	52		29		W	20	Slants north.
	52		35		W	30	Slants south.
	59	2	56		W	30	Double
	52		60		W	30	Ca Ca photographs 8h 52m and 8h 17m
January 9.	A.Y.S.						
	8 42	1	50		E	15	Ca
	42	6	43		E	60	Ca A small portion of this, 10" high, was seen in C
	38		38		E	40	Top flows northwards
	37		8 5		E	10	
	35	5	0.5		E	30	Faint.
	33	1		11	E	15	
	32			20	E	15	
	30	6		49	E	50	
	9 0			77.5	E	35	
	8 59			88.5	W	15	
	42			39	W	10	Ca
	57			80.5	W	10	
	42			8	W	45	Ca A detached streak parallel to limb.
	56	2		1	W	25	
	55	2	1		W	20	
	55		4		W	10	
	42		15		W	15	Ca.
	43	8	55.5		W	45	
	41		61.5		W	10	
	41		64.5		W	10	
							Seeing poor. Ca photographs 8h 42m and 9h 14m; rather poor.
January 10	S.S.						
	9 5		85.5		E	10	
	1	1	88 5		E	30	
	8 19		60		E	15	
	54	1	41		E	80	Very faint, broader at top, and slants up to +47° E.
	53	1	37		E	70	} Connected in Ca.
	51	1	33		E	50	
	55			8	E	15	Ca.
	45	1		12	E	15	
	40	4		48	E	60	
	9 22	0.5		82	E	20	Not seen at 8h 36m
	8 35			81.5	W	20	Not seen at 9h 22m.
	55	2		39	W	20	Ca. Double
	9 17			15	W	50	See Note.
	8 55		Equator.		W	10	Ca.
	9 10	3	55.5		W	20	Ca photographs 8h 55m and 8h 16m.
January 11.	A.Y.S.						
	8 44	2	64.5	...	E	30	Ca. Seen only at 8h 44m.
	28	7	44 5		E	140	Ca. A small portion of this was very faintly seen in C.
	25	2	38		E	50	Top faint.
	44		20		E	10	Ca.
	44		14		E	10	Ca.
	44		5		E	10	Ca. Faint.

Date and observer.	Hour I.S.T	Base.	Latitude		Limb.	Height.	Remarks.
			North	South.			
1910.	H. M.	°	°	°		"	
January 11. A.Y.S. —contd.	8 21	6		2	E	25	Connected by a thin Ca streak. Faint, and 30" high in Ca. A Ca streak from the base of this meets limb at -28° E. Ca. Ca. 50" high in Ca Ca. Ca. Ca. Ca. An arch. Only one of the stems was seen in C. Ca streamers from top flow to -30° W. 70" and 80" high in Ca. Ca. Ca. Ca. Ca photographs 8h 44m and 8h 18m.
	20			9	E	15	
	19	2		15	E	20	
	17			22	E	10	
	15			37	E	10	
	44			43	E	15	
	44			44	E	15	
	14	2		50	E	35	
	12			32	E	10	
	44			38	E	15	
	44			35.5	W	15	
	44	2		52	W	10	
	44			40.5	W	45, 60	
	39	7		19.5	W	30, 40	
	44			8	W	10	
	44		48		W	10	
	30	5	58.5		W	40	
	44		68.5		W	15	
January 12. S.S.	8 23	7	40.5		E	75	Ca. A very faint prominence 15" high was seen here at 8h 54m.
	52	1.5	21		E	20	Ca.
	25		17		E	10	Ca.
	48	3		2.5	E	30	A Ca streak from top meets limb again at +22° E.
	45	4		33	E	40	
	41	1		51.5	E	35	
	23	1		58.5	E	10	Ca.
	39			63.5	E	10	
	23	0.5		69.5	E	10	Ca.
	23			35	E	25	Ca.
	23	1		69.5	W	10	Ca.
	9 22			57	W	10	
	8 23	1		38	W	10	Ca.
	23	3		30.5	W	30	Ca. Faint.
	9 16	2		26	W	15	
	8 23	0.5	4		W	10	
	23		11		W	10	
	9 8		14		W	30	Ca
	8 23		27		W	30	Ca.
	23		41		W	20	Very faint.
	9 5		43		W	20	Ca photograph (through cirrus) 8h 23m.
January 13. S.S.	9 2	2	44		E	20	Double.
	10 13	1	41.5		E	20	
	9 1	0.5	36.5		E	15	
	10 13		24.5		E	15	
	12		14		E	15	Faint, slender, and detached.
	10	8		7	E	30	
	8 55			15.5	E	35	
	53			25.5	E	25	
	53			33.5	E	10	
	10 6			35	E	10	
	19	1		18.5	W	35	
	9 14			15.5	W	10	
	10 17			3.5	W	20	Seemg bad. Ca photograph (rather poor, flocculus) 8h 45m.
January 14 S.S.	8 30	...	79		E	10	Ca.
	30	2	44		N	30	Ca.
	30		8		E	15	Ca.
	54		7		E	15	

Date and observer.	Hour I.S.T		Base	Latitude		Limb	Height	Remarks.
				North	South.			
1910.	II.	M.	°	°	°		"	
January 14. —contd.	S.S.	8 52	..		1	E	15	Extends to +4° E in Ca In Ca, the base extends from -2° to -10°, and the top from +1° to -10° E. Ca. At -28° E. there was a detached slanting streak 80" high Ca.
		49	2.5		7	E	45	
		30	14		80	E	45	
		30			49	E	10	
		40			85	E	10	
January 15	S.S.	8 20	...	85.5	.		30	Ca.
		20		85		E	15	Ca.
		20		78		E	15	Ca.
		9 13	3	48.5		E	25	
		8 20		45		E	10	Ca.
		20		42		E	15	Ca
		9 10	3	38.5		E	15	
		8	6	10		E	20	Extends to +17° E. at top.
		5	1	4.5		E	15	
		8 20			15	E	75	Ca. A short detached streak parallel to limb.
		9 0	0.5		22.5	E	20	See Note 1.
		8 20			38	E	30	Ca. Slants south.
		55	1		51	E	40	Slants south. } Tops meet.
		55	0.5		54.5	E	20	
		53			69.5	E	10	
		20			71.5	E	10	Ca.
		53			74.5	E	10	
		51			79	E	15	
		49			79	W	15	
		47			58.5	W	10	
		46	0.5		50.5	W	10	
		9 34	1		38	W	15	} See Note 2.
		32	1		32.5	W	40	
		31	2		21	W	80	
		28	0.5	13.5		W	10	
		26	4	22		W	20	Two small prominences connected by a streak.
		8 20	1	31.5		W	25	Ca.
20		33		W	25	Ca.		
9 25		35		W	20	Not in Ca.		
8 20		36		W	210	Ca. See Note 3.		
9 22	0.5	43		W	15			
20	2	55.5		W	30	Ca photographs 8h 20m, 8h 7m, 8h 59m, 9h 45m, and 11h 19m,		
January 16	G.N.	8 57	...	82.5	.	E	10	Ca.
		57		81.5		E	10	Ca.
		57		77		E	30	Ca.
		57		67.5		E	10	Ca.
		57		63.5		E	10	Ca.
		57		68.5		E	10	
		9 25	4	49		E	45	
		20	3	33.5		E	40	
		8 57	5	18.5		E	30	Ca.
		57	12		11	E	60, 70	Ca.
		9 4	3		27.5	E	70	
		8 57	2		31	E	20	Ca.
		57			34	E	15	Ca.
		57	1		45.5	E	45	Ca.
		9 0	4		51	E	15	
		8 59			64.5	E	15	
		57			79	E	10	Ca.
		57			81.5	E	10	
		57			74.5	W	10	Ca.
		57			71.5	W	10	Ca.
		57	14		25	W	20, 25, 40	Ca. Connected to the limb by four stems.
		57	8	1.5		W	15	Ca.
		57	4	23		W	25	Ca.
57	2	27		W	15	Ca.		
57	4	49		W	20	Ca.		
57	2	55.5		W	30	Ca.		
57		59.5		W	25	Ca.		
57		60.5		W	25	Ca.		

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height	Remarks
			North.	South.			
1910.	H. M.	°	'	"		"	
January 17. S.S.	8 37	..	82'	...	E	10	Ca
	37		78		E	10	Ca
	44	5	49		E	50	
	41	3	34.5		E	45	
	38	1	18.		E	35	A Ca streak from top meets limb at lat. -13° E.
	35	0.5		7	E	10	<i>See Note.</i>
	37			37	E	20	Ca A short detached slanting streak.
	31	0.5		44	E	30	} Connected in Ca
	28			50.5	E	10	
	25			60	E	10	
	7			58.5	W	10	Ca Seen only at 8h 7m.
	9 8	1.5		42.5	W	30	Slants south slightly.
	4	2		26	W	70	
	1	1		2	W	40	} Connected at base in Ca.
	1		1.5		W	40	
	8 37	4		22	W	70	Ca. Faint. Bends north.
	37			38.5	W	120	Ca. Rather faint 3° broad, but detached from limb.
37	0.5		54.5	W	15	Ca.	
37	0.5		57.5	W	15	Ca.	
56			58.5	W	15	Ca photographs 8h 37m and 8h 7m.	
January 18. G.N.	8 2	..	71.5	..	E	15	Ca.
	2		68.5		E	15	Ca.
	55	6	50.5		E	30	
	2	1	41.5		E	15	Ca.
	2	1	37		E	15	Ca.
	51	9	64.5		E	60	<i>See Note.</i>
	2		15		E	90	Ca. An overhanging cloud connected to limb by a narrow stem at $+21^{\circ}$ E
	47	4		5	E	15	
	45	5		20.5	E	50	Only 30" in Ca at 8h 2m but was 45" at 11h 42m.
	40			57.5	E	20	A Ca streamer extends to -14° E.
	9 0	3		48.5	W	50	
0	2		27	W	45	Ca photographs 8h 2m and 11h 42m.	
January 19. S.S.	8 31	..	75		E	10	Ca.
	31	3	71		E	30	Ca
	9 10		60.5		E	10	
	7	5	52		E	45	
	1	3	36.5		E	35	
	8 31		34		E	15	Ca.
	55	3		12	E	20	
	53	2		19	E	30	Streaks at top extend from -14° E to -21° E.
	50	0.5		24	E	15	
	50	0.5		25	E	15	
	50	0.5		26	E	15	
	31	0.5		59.5	E	10	Ca.
	40			47.5	W	10	
	39	1		43.5	W	40	} Connected in Ca.
	38	1		41.5	W	20	
	31	6		10	W	45	Ca.
	31	2		Equator	W	45	Ca. Faint. Surmounted by a streak 4° long.
31	4		6	W	40	Ca	
9 21	4		23	W	20	Ca photographs 8h 31m and 8h 17m	
January 20. G.N.	8 19	...	79		E	15	Ca.
	19		70.5		E	10	Ca
	19		55.5		E	25	Ca.
	45	5	52		E	70	Only 40" high in Ca at 8h 19m.
	43	1	22		E	30	
	42	1	10		E	20	
	41	3		3	E	40	
	19	5		29.5	E	10	Ca
	19			51.5	E	10	Ca
	19	2		85	E	10	Ca
	19			88.5	W	10	Ca
	19			56.5	W	10	Ca.

Date and observer.	Hour I S T	Base.	Latitude		Limb.	Height	Remarks
			North.	South			
1910.	R M.	°	°	°		"	
January 20. —contd.	G.N.						
	8 53	12	.	46	W	45, 25	
	19			23	W	10	Ca.
	19			15	W	15	Ca.
	19	8		5	W	40, 40	Ca. A cloud connected to limb by 3 stems.
	19	6	10		W	40	Ca.
	19		15		W	30	Ca.
	19		19		W	30	Ca.
	50	2.5	25		W	45	Ca photographs 8 ^h 19 ^m and 8 ^h 6 ^m .
January 21.	S.S.						
	8 26	1	61.5	.	E	10	Ca.
	9 13		50.5		E	80	Slants north. Top broader.
	8 26		48		E	10	Ca.
	9 1	0.5		2	E	15	
	0	8		11	E	25	See Note.
	8 55			21.5	E	20	A Ca streak from top extends to -16° E.
	55	1		30.5	E	20	} A streak from top extends to -22° E.
	55	1		31.5	E	20	
	49			73.5	E	15	
	26			78	E	15	Ca.
	47	1		82	E	15	
	26			85	W	10	Ca.
	26			82	W	15	Ca.
	44			78.5	W	15	
	26	1		69.5	W	15	Ca.
	26			51.5	W	10	Ca.
	40	1		47.5	W	50	} A slanting Ca streak connects the tops of these 3 prominences.
	38	5.5		42	W	80	
	33			30.5	W	15	
	26			9	W	20	Ca.
	26			5	W	20	Ca.
	26		Equator.		W	20	Ca.
	9 25		5.5		W	10	
	22		31		W	20	Extends to -25° W in Ca.
	8 26	7	54		W	45	Ca. An irregular arch. Ca photographs 8 ^h 26 ^m , 8 ^h 14 ^m , 9 ^h 5 ^m , and 10 ^h 19 ^m
January 22.	S.S.						
	8 21	..	84.5	..	E	15	Ca.
	21		84		E	15	Ca.
	21		65.5		E	15	Ca.
	9 22	6	55.5		E	60	Chromosphere slightly elevated for 4° further north.
	2	1.5	16		E	25	Ca prominence extends from +11° to +22°.
	8 21	2	9		E	15	Ca.
	21		4		E	10	Ca.
	21		2		E	10	Ca.
	21			2	E	10	Ca.
	21			4	E	30	Ca.
	59			5.5	E	20	Bright, metallic. Faint in Ca.
	21			8	E	30	Ca.
	21			10	E	15	Ca.
	51			50.5	E	10	Ca.
	21			64.5	E	25	Ca. Seen only at 8 ^h 21 ^m . Slants east.
	21			68.5	W	15	Ca.
	44			57.5	W	15	
	43			54.5	W	30	
	40	9		47	W	75	
	9 41	2		6	W	20	Not in Ca.
	8 21	7	6.5		W	20	Ca.
	9 38	5	28.5		W	20	A group of 3 prominences.
	8 21		36.5		W	40	Ca. A faint, detached cloudlet. Ca photographs 8 ^h 21 ^m and 8 ^h 39 ^m .
January 23.	S.S.						
	9 28	0.5	75		E	10	Ca.
	46	12	60.5		E	45	
	28	1	37.5		E	40	Ca.
	28		27		E	20	Ca. A very small detached cloudlet.
	41	6	20		E	45	
	37			8	E	20	Connected to the next.
	35			8	E	25	Connected to the next.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb	Height.	Remarks.
			North	South			
1910.	H. M.	'	°	°		"	
January 23. — <i>cont'd</i>	S.S.						
	9 35	1		11 5	E	00	Slants south. A Ca streamer, 10° long and 105" high, flows north from it. } Connected in Ca.
	35	1 5		17	E	20	
	35	1 5		20 5	E	20	} Connected at base.
	29			31 5	E	20	
	28			39	E	20	
	9			34	W	15	
	3	7		47	W	80	
	8 58	2		24	W	30	Slants north
	10 3	5	2 5		W	30	A Ca streak from top flows to +9° W.
	9 28		11		W	20	Ca A short detached streak.
	10 1	1 5	17 5		W	25	} Connected in Ca.
	0	0 5	22 5		W	45	
	9 59	6	28		W	45	} Detached.
	55		34		W	20	
	54	1	37 5		W	20	Ca Faint.
	28	4	53 5		W	20	Ca
	28		73		W	20	Ca photographs 9 ^h 28 ^m and 9 ^h 0 ^m .
January 24	G.N.						
	9 15	3	50		E	70	
	10 6		48 5		E	20	
	9 34	1	36		E	15	Ca. Very faint.
	10 5	2	31		E	20	
	9 34	3	24 5		E	20	Ca. Faint.
	34				E	20	Ca.
	12	1 5		8	E	80 ±	
	34			17	E	20	Ca
	34			18	E	40	Ca. Faint.
	34	3		50	W	30	Ca.
	20	4		27	W	50	
	22			9	W	20	
	34		38		W	15	Ca.
	34	3	51		W	45	Ca.
							Poor weather. Ca photograph 9 ^h 34 ^m . Poor.
January 25	S.S.						
	8 22	3	60		E	20	Ca.
	9 15	4	54 5		E	90	Narrow at top. Slants south.
	13	2	51		E	20	Not in Ca.
	9	0 5	45		E	10	
	8 22		41		E	10	Ca.
	9 9		34		E	35	Detached. Slants north. Connected to limb, and 3° broad at base in Ca.
	8 22		25		E	15	Ca. Faint.
	22		21		E	15	Ca. Faint.
	22		18		E	20	Ca.
	22		17		E	15	Ca.
	22		13		E	10	Ca.
	22	4	3		E	40	Ca.
	9 1	2		2 5	E	50	Slants south. } Tops connected by Ca streaks. Vertical in Ca. }
	8 22			14	E	45	Ca. Two detached dots.
	22	0 5		15	E	10	Ca.
	22	4		24	E	55	Ca.
	22			31	E	70	Ca.
	22			36 5	E	80	Ca. Two faint, slanting, detached streaks.
	22			43 5	E	80	Ca. Four faint detached dots.
	56			49	E	15	
	22			64 5	E	15	Ca.
	22	1		69 5	E	15	Ca.
	22	0 5		72	E	15	Ca.
	45	4		50 5	W	40	
	41			33	W	10	
	39	4		29	W	30	
	9 35	1	2 5		W	20	
	32		11 5		W	20	
	30	4	19		W	40	A streak from top flows south and meets the last in Ca.
	8 22		36		W	15	Ca.
	9 25	7	48		W	45	Ca.
							Ca photographs 8 ^h 22 ^m and 8 ^h 9 ^m .

Date and observer	Hour I.S.T	Base	Latitude.		Limb.	Height	Remarks.
			North.	South.			
1910.	H. M.	"	"	"	"	"	
January 26. A.Y.S	9 0	8	58.5	.	E	85	See Note.
	8 55	6	48.5		E	10	
	55	6	40		E	30	
	50	1.5	18		E	30	A Ca streak from top, 50" high, slants and almost meets the limb again at +13° E
	3	3	6.5		E	15	Ca.
	46	5		2.5	E	25, 45	Three prominences
	32	1		23.5	E	20	
	9 17			34	E	15	
	8 28			47	E	10	
	28			54.5	E	20 ±	Rather faint. 10" high at 8 ^h 11 ^m in Ca.
	3			54.5	W	15	Ca. Faint
	9 14	2		50.5	W	40	Top slants southwards
	8 11			45.5	W	15	Ca. Seen only at 8 ^h 11 ^m .
	11			38	W	25	Ca. Do.
	9 12		7		W	10	Ca.
	8 3	2	21		W	20	Ca.
	9 9	6	46.5		W	20, 45	Two prominences with tops connected.
	5		65.5		W	15	Ca. photographs 8 ^h 3 ^m and 8 ^h 11 ^m .
January 27. G.N	8 3	5	58	..	E	25	Ca.
	45	2	40.5		E	40	Only 20" high in Ca.
	43	1	30		E	40	} Connected at top in Ca.
	41	4	23		E	70	
	41		18		E	50	} Ca.
	3		Equator.		E	20	
	37			20	E	20	
	37			28	E	25	
	30	5		42	E	40	
	3	3		54	W	20	Ca.
	3			27	W	20	Ca.
	55	1.5		10	W	30	} Tops connected in Ca.
	55	2		0	W	40	
	55			2	W	40	
	55	1.5	3		W	60	} Only 45" high in Ca.
50	4	44.5		W	60	Ca. photographs 8 ^h 3 ^m and 8 ^h 15 ^m .	
January 28 S.S.	8 5	...	68	...	E	30	Ca.
	5		58.5		E	10	Ca.
	9 18		55.5		E	10	
	8 5		58.5		E	10	Ca.
	9 15	3	44.5		E	80	
	10		30		E	60	} Detached from limb but connected to the next prominence. In Ca they form a group extending from +21° to +33° E, and 45" and 60" high.
	10	1	25		E	50	
	7	1	20		E	20	
	3	4		3	E	20	
	8 18	0.5		12	E	15	Ca. Seen only at 8 ^h 18 ^m .
	9 1			27	E	10	
	8 59	1		36	E	25	} In Ca they form a connected group extending from -34° to -51°.
	57	1		39.5	E	45	
	54	1		48	E	40	
	5			62.5	E	15	Ca.
	9 35			78	W	15	See Note.
	8 42			67.5	W	10	
	37	2		46.5	W	15	
	32	1.5		23	W	15	
	32	1		19	W	15	Slants south in Ca.
38			11	W	10		
9 31	10	14		W	15	Extends to +2° W. in Ca.	
27	6	46.5		W	50		
24	4	56.5		W	25		
8 5		65.5		W	10	Ca.	
5		76.5		W	15	Ca. photographs 8 ^h 5 ^m and 8 ^h 18 ^m .	

Date and observer.	Hour I S T	Base.	Latitude		Limb	Height.	Remarks.
			North	South			
1910.	H. M.	°	°	°		"	
January 30. A.Y.S.	9 49	2		7	E	15	
	45			12	E	20	
	45	3		15.5	E	35	
	42			22.5	E	10	
	41			34	E	15	
	40			36	E	10	
	39	1.5		49.5	E	30	
	35	1		64	E	40 ±	Very faint.
	33			88	E	10	
	31			84	W	20	
	30	1		78.5	W	15	
	29	2		49.5	W	30	
	24			47.5	W	10	
	23			40	W	20	
	18	1	14		W	20	
	11	4	28		W	50	
	0	6	43		W	45, 70	
	54		53.5		W	10	
	8 51		61.5		W	10	
9 32		84		W	10		
January 31 G.N.	10 32			21.5	E	30	
	11 8	1.5		15	W	40	
	5	2.5		6	W	40	
	2	2	6		W	30	
	2	1.5	17		W	20	
	10 54		21		W	15	Ca.
	11 0	1.5	38.5		W	40	Ca photograph (foculus plate) 10 ^h 54 ^m . Poor.
February 1. S.S.	8 30	0.5	88	...	E	15	Ca.
	9 15	2	40.5		E	40	Faint.
	8 30	2	38.5		E	25	Ca.
	30	1	0.5		E	40	Ca.
	30			3	E	15	Ca. Faint.
	30			7	E	15	Ca.
	30	3		11.5	E	45	Ca.
	30			15	E	60	Ca.
	9 3			25	E	45	Detached. } Connected, and 30" high in Ca.
	3	0.5		27	E	30	
	3			29	E	15	30" high in Ca
	8 30	1		34	E	15	Ca.
	30			36	E	15	Ca.
	9 0			43.5	E	15	
	8 57	2		46.5	E	45	
	59			50.5	E	20	
	30	1		66.5	E	15	Ca
	43			46	W	10	
	9 58	3		17	W	65	
	56	1		8.5	W	20	
	55			1	W	10	
	54	1	4		W	15	
	52		15.5		W	10	
52	3	18.5		W	10		
50	5	38.5		W	35	Double.	
43		49.5		W	40	Very faint.	
42	3	56		W	30	Faint. 6" broad at top.	
32		81		W	15		
32		82		W	15		
							Ca photographs 8 ^h 30 ^m and 8 ^h 51 ^m .
February 2. A.Y.S.	15 24	...	31.5	..	E	15	Ca.
	14 26	2	8		E	10	
	15 24		Equator.		E	15	Ca.
	14 25			15	E	15 ±	
	25			17	E	15 ±	
	22	4		42.5	E	30	3 prominences close together.
	20			33.5	W	15	
	50	2		19	W	45, 30	Base extends in Ca to — 17° W

Date and observer.	Hour I.S.T.		Base.	Latitude.		Lamb.	Height	Remarks.
				North.	South.			
1910	H.	M.	°	°	°			
February 2. A.Y.S. —cont'd	14	49			11.5	W	10	
	15	24			4.5	W	45	Ca. Two faint streaks meeting at top.
		24		10		W	25	(a.
	14	48	2.5	13.5		W	25	Bright.
		46	4	36		W	40	A thin Ca streak from top of this meets hmb at + 28° W.
		40	6	52.5		W	185, 80	
		38		76.5		W	10	
February 3. ..	14	40	2	29		E	70	Poor seeing. Ca photographs 15 ^h 24 ^m and 15 ^h 47 ^m .
		40	1	26		E	80	Ca.
		40		1		E	15	Ca.
		40			41.5	E	10	Ca.
		40			49.5	E	10	Ca.
		40			52.5	E	10	Ca.
		40			54.5	E	10	Ca.
		40			15	E	20	Ca.
		40			8	E	45	Ca. A streamer extends to 0°.
		40	1	38		E	15	Ca
February 4. S.S.	8	6	...	88.5		E	15	Ca.
		6		88		E	15	Ca.
		6		78		E	45	Ca.
		6	2	50.5		E	15	Ca.
	9	8	1	48.5		E	20	} Connected in Ca.
		8	1	44.5		E	20	
		2	2	29		E	60	} 70° high in Ca.
		1	8	18.5		E	25	
	8	57	8	.7		E	40	} Connected by a Ca streak. Changing.
		55	1		0.5	E	10	
		6			6	E	20	Ca.
		6	1	84.5		E	10	Ca.
		49	10	47.5		E	50	Very faint except at the two ends.
		44		75		E	10	
		6		82		E	10	Ca.
		38	0.5	79.5		W	10	Very faint.
		35		39.5		W	15	Faint.
		34		25		W	20	Detached, and 2° long. Extends to — 32° W. in Ca.
		32			15	W	60	See Note 2.
		29			12	W	25	Detached.
		27			8	W	25	See Note 3.
		25			1	W	20	Faint.
		6	0.5	48.5		W	10	Ca.
		6	2	52.5		W	25	Ca.
		6	0.5	66		W	10	Ca.
	9	14		71		W	10	O slightly displaced to red. Height rapidly increasing. 20° high at 9 ^h 16 ^m .
	8	6		88.5		W	10	Ca.
February 5. A.Y.S.	9	6	..	81		E	10	Seeing poor. Ca photographs 8 ^h 6 ^m , 8 ^h 18 ^m , and 8 ^h 59 ^m .
		2		75.5		E	25	Bright. O slightly displaced to V at top. D ₁ , D ₂ , b ₁ , b ₂ , b ₃ , and b ₄ were bright
	8	43	1	49		E	80	Ca
		43		40.5		E	10	Ca.
		43		38.5		E	10	Ca.
		59	1	30.5		E	25	} Connected.
		47	21	18.5		E	45, 30, 20	
		41	2	4		E	20	Faint.
		39			1.5	E	30	Ca streaks proceed both ways from base to — 6° and — 22° E
		34	8		13	E	30	
		43			84.5	E	10	Ca.
		43			80.5	E	15	Ca.
		43			42.5	E	10	Ca.
		19	2	44.5		E	15	
		43		38.5		W	10	Ca.
		43		27		W	10	Ca.
		43		25		W	10	Ca.

Date and observer	Hour I.S.T.	Base	Latitude.		Limb	Height	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
February 5. A.Y.S.	8 43	.	...	28	W	20	Ca Detached.
—contd.	9 29	1		9.5	W	50	Top broader. Streaks from top flow to + 5°, and - 14° W.
	20	1		0.5	W	30 ±	Faint
	15		9		W	10	
	15	1	12		W	20	
	13		25		W	40	A Ca streak from top meets limb at + 19° W.
	10		33		W	10	
	8 48		39		W	15	
	9 9	2	61.5		W	15	Ca.
	7	1	71.5		W	15	
							Ca photographs 8h 43m and 8h 53m.
February 6 G.N.	8 46	.	80.5		E	15	Ca. Faint
	46		87.5		E	20	Ca.
	55	1.5	27		E	60	} Connected by Ca streaks
	55	3	22		E	70	
	51		15		E	20	
	51	2	11		E	20	
	50		2.5		E	25	
	48	14		18	E	40, 50, 35	Ca
	46			57.5	E	30	
	48			83.5	E	15	
	46			19	W	30	Ca. Bends, and extends to meet the next prominence.
	9 7	3		9	W	60	
	8 40	1	22		W	20	Ca. Meets the next prominence.
	9 4	1.5	27		W	30	A Ca streamer starts from the top, and proceeds to + 14° W.
	8 46		30		W	10	Ca.
	46		52.5		W	15	Ca.
	9 2	1.5	60.5		W	75	
							Ca photographs 8h 46m and 8h 25m.
February 7 S.S.	9 15	0.5	61	...	E	15	
	8 19	0.5	55.5		E	45	Ca. A streak extends to + 51°.
	9 14	1	40.5		E	30	Very faint.
	5	6	24		E	60	Ca prominence extends from + 12° to + 33°. Extension on the north side was faint.
	0	0.5	10		E	20 ±	Very faint. C slightly displaced to violet.
	8 54			9	E	10	
	53	2		12	E	25	
	50			21.5	E	10	
	46			47.5	E	15	
	46			51.5	E	15	
	44			55.5	E	15	
	19	1.5		78	E	15	Ca. Seen only at 8h 19m.
	19			67	W	20	Ca. Faint
	33	0.5		39	W	10	
	19			30	W	20	Ca
	9 30			20	W	10	
	29	1		3.5	W	20	
	8 19	1	7		W	25	Ca.
	9 28	1	34		W	10	
	23	5	56		W	30	
	21	2	60.5		W	10	
							Ca photographs 8h 9m and 9h 11m.
February 8. A.Y.S.	9 16	...	70		E	10	Ca.
	16		69		E	10	Ca.
	16		67		E	10	Ca.
	16	10	42.5		E	30	Ca. A group of small prominences.
	8 45	10	21		E	45	
	34			28	E	15	
	30	4		52.5	E	20	40" high in Ca.
	25	1		88.5	W	15	
	9 16			44.5	W	10	
	16	3		3.5	W	20	Ca. Top extends both ways to 0° and - 10°.
	8 59		3		W	10	
	55	2	38.5		W	30	
	9 16		56.5		W	10	Ca.
	18		60.5		W	10	
							Ca photographs 9h 16m and 8h 44m.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°			
February 9 G.N.	9 18	2	80.5	.	E	20	Ca.
	8 39		53.5		E	20	
	9 16	7	45		E	40	Ca.
	8 35	2	25		E	45	
	9 18	3	21.5		E	45	Ca. Only a part of this was seen in C at 8 ^h 35 ^m
	16		11		E	15	Ca.
	10 0	1	2		E	80	
	8 33	8	10		E	40	See Note.
	28	5		52	E	60	
	25			66	E	10	
	10 7			75.5	W	15	
	6			83.5	W	15	
	8			52.5	W	10	
	9 18			38.5	W	15	Ca.
	16	1		4	W	30	Ca. Bends and meets the next prominence
	10 5	1	3		W	50	
	9 16	12	26		W	20, 30	Ca. Only a part of this was seen in C at 8 ^h 40 ^m .
	16	1	45.5		W	40	Ca.
	10 3		59.5		W	40	Only 20' high in Ca. Ca photographs 9 ^h 16 ^m and 8 ^h 26 ^m .
February 10. S.S.	9 34		68.5	.	E	10	
	32	1	45.5		E	70 ±	40' high in Ca. Slants north.
	8 45	1.5	34		E	25	Ca. Rather faint. Slants south.
	9 26	6	24		E	40	
	8 45		9		E	15	Ca.
	9 24	2	2		E	20	Extends to +5° E., and is 40' high in Ca.
	20			3.5	E	40	See Note 1.
	20	5		6	E	15	
	7	3		13.5	E	25	See Note 2.
	3	0.5		23.5	E	15	} Connected.
	1			28.5	E	15	
	0			38.5	E	10	
	8 59			45.5	E	15	Very faint.
	57	4		49.5	E	45	
	51			68	E	10	Very faint.
	49	1		79.5	E	10	
	31	1		23	W	20	} Very faint. } Tops connected in Ca
	31	0.5		17	W	20	
	29	1		14.5	W	10	
	11		8		W	15	Ca. Seen only at 8 ^h 11 ^m .
	45	0.5	18		W	10	Ca.
	45	3	24.5		W	30	Ca. A group of 3 prominences
	9 43		27		W	30	
	8 45	1	38.5		W	20	Ca.
	45	4	58.5		W	15	Ca. N W. quadrant observed through cirrus. Ca. photographs 8 ^h 45 ^m and 8 ^h 11 ^m .
February 11. G.N.	8 46	..	69	...	E	10	
	45		49.5		E	20	
	10	1	34.5		E	25	Ca.
	10	6	28		E	30	Ca. Only a part of this was seen in C.
	10	4	19		E	30, 40	Ca. Only a part of this was seen in C.
	10		4		E	10	Ca.
	41	5		15	E	25	
	38	15		44.5	E	45, 35, 25	A number of prominences joined together.
	33			75.5	E	15	
	52			40.5	W	10	
	52			33	W	25	
	52			31	W	25	
	51			29	W	30	
	51			24	W	25	
	10		20		W	25	Ca.
	10		30		W	30	Ca.
	10		43.5		W	40	Ca.
	10		46.5		W	30	Ca.
	10		49.5		W	30	Ca.
	49	2	57.5		W	45	Only 20' high in Ca. Ca photographs 8 ^h 10 ^m and 8 ^h 44 ^m .

Date and observer.	Hour I.S.T.		Base.	Latitude.		Limb.	Height.	Remarks.			
				North.	South.						
1910.											
February 12.	S.S.	9 40	0.5	58.5	...	E	10	} Connected and 40" high in Ca. 20" high, and extends to - 10° E. in Ca. A group of 3 prominences. 70" high in Ca. Very faint. Ca. A streak from top extends to + 37° W. Faint in Ca. Faint in Ca. Ca photographs 8h 18m and 8h 52m.			
		38		37		E	70				
		35	0.5	25.5		E	55				
		18	2	14		E	15				
		12	2		18	E	10				
		6	12		38.5	E	50				
		4	1		50	E	20				
		0	0.5		52	E	15				
		8 58			55	E	15				
		47			50	W	10				
		42	3		38	W	50				
		42	1		34	W	55				
		42			30	W	10				
		9 51		21		W	25				
		8 18	1	30		W	20				
		9 47	2	44.5		W	35				
		45	3	58.5		W	20				
February 13.	S.S.	9 30		55.5	...	E	20	Ca Faint. 60" high in Ca. Top bends, and meets the last prominence in Ca. Ca. Two small connected arches. U slightly displaced to red at - 53° at 8h 53m. In Ca, the prominence consisted of small scattered dots 40" high. Ca. Ca photographs 9h 30m and 8h 38m.			
		21	1	52.5		E	30				
		19	4	37.5		E	90 ±				
		16	1.5	20		E	20				
		16	1	15.5		E	30				
		12	4	6		E	25				
		9	2		10	E	30				
		7			17.5	E	10				
		80			44	E	80				
		5			45.5	E	10				
		8 59			66	E	10				
		58	1.5		70.5	E	10				
		50	7		40	W	80				
		9 33	4		20	W	10				
		31		3		W	20				
		30		24		W	15				
		28	3	58.5		W	15				
25		66		W	10						
24		71		W	15						
February 14.	G.N.	9 0	5	37		E	60	75" high in Ca. 45" high in Ca. A Ca streamer extends to the equator. Only 20" high in Ca. A Ca streamer extends to lat. - 20°. Only 25" high in Ca. Ca. Faint. Ca. Ca. A cloud connected to limb by a stem. Ca photographs 8h 24m and 8h 14m.			
		8 55	9.5	20		E	50, 60				
		50	4	5		E	80				
		44	2		16	E	45				
		42	0.5		20	E	10				
		39	1		54.5	E	15				
		38	0.5		64	E	20				
		9 16	4		42	W	65				
		13	2		29	W	30				
		11	2		11	W	35				
		8 24	1		28	W	30				
		9 8	2		26	W	30				
		8 24			5	W	60				
		24	1	30		W	20				
		24		39.5		W	45				
		February 15.	S.S.	9 17		78	...		E	10	20" only in Ca. Slants westwards. Ca. Detached dots.
				11		34.5			E	10	
9	7			22.5		E	25				
7				8		E	20				
4	1.5				9	E	20				
2					17	E	10				
0	2				24	E	40				
0	2				30	E	20				
8 47					58.5	W	10				
38	2				45.5	W	30				
36					41.5	W	15				
8			30	W	160						

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°			
February 16. S.S. —contd.	8 33 31 28	5		24 18 6 5	W W W	80 10 25	Top flows westwards. 7° broad in Ca, and top flows southwards. Ca photographs 8 ^h 8 ^m , 8 ^h 25 ^m , 8 ^h 35 ^m , 9 ^h 13 ^m , 10 ^h 18 ^m , and 10 ^h 23 ^m . } <i>See Note.</i>
February 16. A.Y.S.	8 47 47 30 44 30 39 39 34 30 24 30 26 9 15 7 3 8 58 56 54 51	1 2 2 2 2 2 2 2 2 2 7 2 4 0 5 5 1 1	56 5 51 5 21 18 9 1 12 16 88 3 5 48 5 48 5 21 28 31 59 5 67	.. .. .. .. .. 6 12 16 88 3 5 48 5 48 5 6 8 5 17 22 30 47 5 78 5 75 5 61 48 5 24 5 26	E E E E E E E E E E E E W W W W W W W W W W W	15 20 15 15 10 45 10 20 60 10 85 20 30 90 15 30 30 10	Ca. Ca. 30" high in Ca. A faint streak. 60" high in Ca. Ca. Two detached streaks. Only 25" high in Ca. A Ca streak meets limb at -40°W. <i>See Note.</i> Top bends, and meets limb, and 30" high in Ca. Ca photographs 8 ^h 30 ^m , 8 ^h 44 ^m , 9 ^h 15 ^m , 9 ^h 44 ^m , and 9 ^h 49 ^m .
February 17. G.N.	8 44 58 55 50 44 42 26 40 37 35 26 26 26 9 3 8 26 9 0	... 0 5 9 17 7 2 2	75 5 51 5 38 5 38 14 17 17 22 30 47 5 78 5 75 5 61 48 5 24 5 26	... ... 8 5 17 22 30 47 5 78 5 75 5 61 48 5 24 5 26	E E E E E E E E E E E E W W W W W W W	20 20 20 40 35 40, 45 50 15 45, 15 15 10 10 10 10 40 30 30	Ca. Seen only at 8 ^h 44 ^m . 3 prominences close together. Ca. Seen only at 8 ^h 44 ^m . Ca. Faint. Ca streamers extend from top to lat. -22°E. Ca. Ca. Ca. Ca. 2 prominences close together. Ca photographs 8 ^h 26 ^m and 8 ^h 44 ^m .
February 18. ...	10 25 25	6	... 26	44 5	W W	40 20	Ca. Ca. No visual observations. Ca photograph (foculus) 10 ^h 25 ^m , poor and in- complete.
February 19. A.Y.S.	9 20 8 41 9 18 15 7 46 25 25 25 28 23 22	5 1 28 6 1 1 5 1 0 5	46 20 41 5 2 5 11 5 40 5 12 5 5 18 26 5 36 62	... ... 11 5 40 5 12 5 5 18 26 5 36 62	E E E E E W W W W W W W W W	45 40 10 30 30 45 15 15 20 30 10 10	Ca. A slanting streak. Faint in Ca. Seeing poor. Ca photograph (foculus) 8 ^h 41 ^m .
February 20. G.N.	10 47 55 55 55 47 46	4 2 5 2 5	52 5 35 5 31 5 30 9 18 5	..	E E E E E E	30, 15 10 10 15 40 45	Ca. Ca. Ca.

Date and observer.	Hour I.S.T.		Base.	Latitude.		Limb.	Height.	Remarks.
				North.	South.			
1910.	H.	M.	°	°	°		"	
February 24. S.S.	8	48	..	70	..	E	15	Ca
	9	13	6	58.5		E	60	
		7		40.5		E	15	2° broad in Ca.
		0		29		E	70	A faint streak 40" high in Ca.
		0		27		E	70	A faint streak 10" high in Ca.
		0		23		E	70	Do.
	8	48			6.5	E	40	See Note 1.
		49	4	8	20	E	30	
		49	1		28.5	E	30	} Connected by a Ca streak.
		49	1		31	E	20	
		48			48.5	E	35	Ca.
		48			51.5	E	25	Ca.
		42			67	E	10	
		39			88	W	20	Faint O was slightly displaced both ways at base.
		35	5		51	W	30	
		31	1		20.5	W	45	
	9	31			18	W	35	See Note 2.
	8	48			16	W	60	Ca. A detached cloudlet.
		28	3		11.5	W	10	
	9	30		8		W	10	
	8	48		18		W	15	Ca. }
	9	29	1	16.5		W	20	} Tops connected by a Ca streak.
		29	2	20		W	20	
		24	1	26.5		W	25	
		24		32.5		W	10	
		22	11	46		W	70	Ca photographs 8 ^h 35 ^m and 8 ^h 43 ^m .
February 25. A.Y.S.	8	59	...	78.5	...	E	10	
		59		78		E	10	
		58		71.5		E	25	Ca. Rather faint. Seen only at 8 ^h 56 ^m .
		55	8	57.5		E	45, 50	
	9	58		45.5		E	10	Ca.
	8	50		41		E	45	Very faint. An arch covering 3° of limb.
	9	56		27		E	15	Ca.
	8	37		20		E	15	Faint.
		31		5		E	10	
		31		3.5		E	10	
	9	56			5	E	10	Ca.
		56			8	E	10	Ca.
		56			14	E	10	Ca.
		56			16	E	20	Ca.
	8	27	1		20.5	E	20	Top flows eastwards to — 24° E.
		25	5		39	E	20	Three prominences.
	9	56			40.5	E	15	Ca.
		36			68.5	E	10	
	8	22			82.5	W	10	
	9	56			81.5	W	10	Ca.
		56			78	W	10	Ca.
		56			69	W	15	Ca.
		34	6		58	W	30	
		32	8		43.5	W	45	} Faint } Connected in Ca and 30", 120", and 100" high in it.
		26	5		38	W	65	
		56			27	W	20	Ca. Faint.
		22	11		14.5	W	35	See Note.
	8	56		2		W	15	Ca. An arch seen only at 9 ^h 56 ^m .
	9	56	1	5.5		W	20	Ca. Faint.
		15	17	21.5		W	45	
		10	1.5	35		W	30	
		9		39.5		W	10	
		3	6	48.5		W	50	
		56		82		W	25	Ca. Observed through cirrus. Ca photographs 9 ^h 56 ^m and 8 ^h 43 ^m .
February 26. G.N.	8	59	6	55.5	...	E	60, 75	Ca. Changing slightly.
		59	2	24		E	15	Ca.
		59		5		E	15	Ca.
		59		2		E	10	Ca.
		59			2	E	40	Ca.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.							
February 26. G.N. —contd.	H. M.	°	°	°		'	
	8 59	..	...	5	E	30	Ca.
	59			7	E	20	Ca. Detached
	59			12	E	10	Ca.
	35	1		40	E	20	
	59			45.5	E	10	Ca.
	34			72.5	E	15	
	34			74.5	E	20	
	9 2	3		55	W	50	} Connected by a number of Ca streaks. Changing and 150", 165", and 45" high in Ca.
	2			47	W	15	
	8 59			37.5	W	90 ±	Faint jets
	59			8	W	30	Ca. Slants southwards.
	59				W	20	Ca.
	58	18	4		W	30, 60, 80	
	45	3	16		W	20	
	59		32		W	20	
	43	5	39.5		W	30	Ca.
	39		48		W	100	
		75.5		W	20	Ca photographs 8h 59m, 8h 37m, 9h 22m, and 10h 38m.	
February 27. A.Y.S.	8 52	.	75.5		E	10	Ca.
	35	2	58.5		E	20	
	52		52.5		E	10	Ca.
	33	1	22		E	20	A Ca streak from the top flows to + 27° E.
	52		14		E	80	Ca.
	30		5		E	20	A Ca streak from the base of this flows to + 10° E
	30		3		E	20	Connected with the last in Ca.
	30			3	E	25	75" in Ca.
	29	1.5	17.5		E	20	
	52		20		E	15	Ca.
	52	1	23.5		E	25	} Tops connected by a streak which extends to Ca. } - 85° E.
	52	1	30		E	25	
	27		38		E	10	30" in Ca.
	27		42.5		E	10	
	27		46.5		E	10	Surmounted by a Ca detached cloudlet 40" high.
	25		49.5		E	10	
	57		72.5		W	10	Not seen at 8h 20m.
	20	2	55.5		W	35	} Connected and 60", 45", and 50" high in Ca.
	21		50.5		W	15	
	54		42.5		W	35 ±	Very faint
	52		36.5		W	15	Ca.
50	6	10		W	45		
47	1.5	24		W	30		
52		36.5		W	25	Ca.	
45	4	39.5		W	40	60" high in Ca.	
39		51.5		W	10		
39	1	58		W	30	A Ca streak from top flows to + 64° W. Ca photographs 8h 52m and 9h 18m.	
February 28. S.S.	9 23	...	69	...	E	15	Ca.
	23		64		E	15	Ca.
	23		62		E	40	Ca. A detached cloudlet.
	23		61		E	10	Ca.
	2		58		E	25	See Note 1
	23		39.5		E	15	Ca.
	23	3	36		E	20	Ca.
	23		31.5		E	10	Ca.
	23		30.5		E	10	Ca.
	8 55		22.5		E	70	Very faint in C. The Ca prominence consists of streaks scattered over 6° of limb.
	9 23		18		E	15	Ca.
	23		6		E	10	Ca.
	23			8	E	80	Ca. A streak.
	23			8	E	120	Ca. A streak slanting and meeting the top of the last.
	8 54			5	E	15	Very faint
	51			18.5	E	30	Do.
48	5		28.5	E	40	Ca streaks from base flow to - 34° E.	

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb	Height.	Remarks.	
			North.	South.				
1910.	H. M.	°	°	°		'		
February 28. S.S. —contd.	9 23	4	..	81.5	E	20	Ca.	
	8 40	5	..	45	E	30	Ca.	
	36			58.5	E	10	Faint	
	56			80	W	30	Ca.	
	56			77	W	45	Ca. } Seen only at 8 ^h 56 ^m .	
	56			67	W	15	Ca. }	
	9 23			60	W	20	Ca.	
	8 28			57.5	W	10		
	28			52.5	W	20	Faint.	
	26	1		21.5	W	15	See Note 2.	
	24	5		12.5	W	40	Top flows southwards	
	9 23			7	W	20	Ca. An arch.	
	23			4	W	40		
	28				2	W	40	} Ca. A streak slanting southwards. } Connected and slightly changing in Ca.
	23			Equator.	W	40		
	11			4	W	25		
	7	2		53.5	W	35	±	See Note 3.
	23			58.5	W	30		Ca.
	23			79.5	W	10		Ca. photographs 9 ^h 23 ^m , 8 ^h 17 ^m , and 8 ^h 56 ^m .
	March 1. G.N.	8 10	...	88	..	E	10	Ca.
10			82.5		E	10	Ca.	
10			80		E	10	Ca.	
10			78.5		E	15	Ca.	
46		1	60.5		E	30	} Connected.	
46		3	56		E	30		
10		3	41		E	30	Ca.	
10			37		E	50	Ca.	
10			24		E	15	Ca.	
42			18		E	20		
10		3		0.5	E	90	Ca.	
40		1		25.5	E	20	See Note 1.	
38		5		44	E	30		
48				77	W	15	Ca. Seen only at 8 ^h 48 ^m .	
9 5		3		51	W	50	25" high in Ca.	
8 10				46.5	W	60	Ca.	
9 3		1		25	W	10		
8 50		5		4.5	W	100	±	See Note 2.
45	13		21.5	W	70			
10			34.5	W	15	Ca.		
10	3		58	W	80	Ca. photograph 8 ^h 10 ^m .		
March 2. A.Y.S.	8 47	...	88	...	E	10		
	47		82.5		E	10		
	57		79.5		E	15	Ca.	
	57		70.5		E	10	Ca.	
	42		60		E	45	±	See Note 1.
	42		55.5		E	20		
	38	0	52.5		E	25	45" high in Ca.	
	32		45.5		E	10		
	32	2	34.5		E	20	C slightly displaced to violet at base.	
	27		29		E	10	35" high in Ca.	
	25		26		E	10		
	25		18.5		E	10		
	57		9		E	10	Ca.	
	22	1		0.5	E	50	Top faint Slants to + 8° E.	
	20			25	E	10		
	20			3.5	E	10		
	18	2		43.5	E	40		
	57			47.5	E	10	Ca.	
	18			50.5	E	15	Faint	
	18	1		73	E	10		
	9 27			69	W	10		
	8 57			86.5	W	10	Ca.	
9 26	3		26.5	W	20			
25	4		14	W	50	Faint and changing in Ca.		
5	3		8.5	W	20	See Note 2.		

Date and observer.	Hour I.S.T.	Base.	Latitude		Limb	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
March 2. A.Y.S.	8 57	..		11	W	25	Ca
—contd.	9 30			5	W	20	50" high at 9h 42m. 75" in Ca.
	3	4	8		W	15	
	8 58	18	23.5		W	40, 80, 80	Three prominences with tops connected.
	50		54.5		W	25	
	50	1	57.5		W	20	
	49		65		W	10	
	48		74.5		W	10	
	57		76		W	10	Ca. (a photographs 8h 57m and 8h 20m.
March 3. S.S.	8 56	2	54.5	...	E	70	Slants northwards. 80" high in Ca.
	33		30		E	40	Ca. } Connected in Ca.
	48		28		E	10	
	46		20		E	10	
	33		15		E	10	Ca.
	33	0.5	12		E	10	Ca.
	33	0.5	8		E	10	Ca.
	33	0.5	5		E	10	Ca.
	42			21	E	20	
	39	2		48.5	E	70 ±	Extends in Ca from - 43° to - 52° E and is 40" high.
	28			75.5	W	10	
	24			64	W	10	
	9 16	0.5		26	W	15	Faint 45" high in Ca.
	8 18	1.5		21	W	15	Almost gone at 9h 15m
	33			15	W	75	Ca. Consists of faint streaks covering 10° of limb.
	9 11	3		4.5	W	30	} Tops meet.
	11	2	4		W	80	
	5	2	54.5		W	50	Ca photographs 8h 33m and 8h 36m.
March 4. G.N.	9 18	...	82		E	15	Ca.
	18		75.5		E	10	Ca.
	50	2	55.5		E	30	Ca streaks from the top meet limb at + 49° E.
	18		33.5		E	10	Ca.
	18		30.5		E	35	Ca. An arch extending from + 80° to + 32° E.
	18	2	18		E	15	Ca.
	8 46	2	14		E	15	
	45	1	3.5		E	15	A Ca streak from this flows to + 12° E.
	9 18		1		E	25	Ca.
	8 43	3		11.5	E	15	
	40	4		44.5	E	70	A number of Ca. streaks flow from the middle of this to - 52° E.
	9 18			33.5	W	60	Ca. Broader at top.
	18			30	W	45	Ca. Detached.
	18			22	W	50	Ca. Two streaks slanting southwards.
	18			16	W	60	Ca. A jet seen only at 9h 18m.
	0	6		12	W	70	Top bends to east. Slightly changed at 10h 28m
	8 50		3		W	60	} Connected by Ca streaks. One of these meets limb at + 9° E. 80" and 60" high in Ca.
	9 18	6	30.5		W	80		Ca. Top extends to + 22° W.
	52	3	53		W	30	Ca photographs 9h 18m, 8h 20m, 9h 42m, and 9h 49m.
March 5. A.Y.S.	8 7	...	70	..	E	15	Ca.
	7		30		E	10	Ca.
	54	3	16.5		E	50	
	50	4	8		E	50, 25	There is a streak from top running to the equator. Connected with the last in Ca.
	40			18	E	10	
	7			29	E	10	Ca.
	33	9		52	E	60, 40	
	29			80	E	10	Faint.
	29			83	W	10	
	27			75	W	15	

Date and observer.	Hour I.S.T	Base.	Latitude.		Limb	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
March 5 — <i>contd.</i>	A.Y.S.	18	...	15	W	90	<i>See Note.</i>
	8 7	6	12		W	10	Ca.
	9 0	4	32.5		W	40	Ca streaks from this meet limb at + 24° W.
	8 57	3	52		W	30	Observed through thin Currus. Ca photographs: 8h 7m, 8h 55m, and 9h 33m.
March 6.	A.Y.S.	.	70	..	E	10	
	1		57.5		E	10	
	0	1	27.5		E	30 ±	
	8 58	1	30		E	10	} 60" high in Ca. } Tops connected by a Ca streak
	55	3	18.5		E	45	
	51	0.5	7		E	20	Not in Ca.
	50	2	1		E	20	<i>See Note.</i>
	48	3		8.5	E	10	Faint.
	45			17.5	E	35	An arch.
	43	1		43.5	E	25	15" in Ca.
	43	2		47.5	E	25	} Connected and 50" in Ca.
	36	2		52.5	E	35	
	34			78	E	10	O slightly displaced to red at base.
	53			25	W	15	Ca. Slants northwards.
	9 9	11		13.5	W	40, 50	60" in Ca.
	8 53		36.5		W	10	Ca.
	9 7		33.5		W	25	Top extends in Ca on both sides to + 30° and + 35° W.
	5	2.5	51.5		W	30	Ca photographs 8h 53m, 9h 53m, and 10h 19m.
March 7.	G.N.	...	80	...	E	25	Ca.
	42		75.5		E	15	Ca. Seen only at 8h 42m.
	11		69		E	15	Ca.
	22	1	41		E	10	
	20	2	38.5		E	50	Faint
	11	2	30.5		E	15	Ca. Faint.
	11		22		E	10	Ca.
	18		17		E	15	
	11		8		E	60, 120	<i>See Note.</i>
	11			8	E	40	Ca. Gone by 8h 47m.
	15			17	E	30	15" in Ca
	10	4	50		E	40	9° broad in Ca.
	37		34		W	10	
	37		31.5		W	30	15" in Ca.
	35		28		W	10	
	35		24		W	30	} Slants southwards to - 27° W. } Connected in Ca.
	35		20		W	30	
	32		17		W	00	Detached } Connected 60" high and extends
	32	1	14.5		W	35	from - 9° W. to - 17° W. in Ca.
	11		2		W	10	Ca.
	30		10.5		W	20	Top extends both ways in Ca to + 18° W. and + 8° W. It meets limb again at + 8° W.
	20		28		W	10	
	11		32.5		W	15	Ca. Faint.
							Ca photographs 8h 11m and 8h 42m.
March 8.	A.Y.S.	...	59.5	...	E	10	Ca.
	8 38		48.5		E	10	} Connected and extends from + 42° E. to + 50° E. 20" high in Ca.
	38		43.5		E	10	
	9 11	2	39.5		E	30	Ca.
	8 37		33.5		E	10	
	35		25		E	20	Streaks from top meet limb at + 28° E. and + 21° E.
	32	1	4.5		E	25	} Tops connected by a streak. In Ca, the group extends to + 11° E.
	32		2.5		E	20	
	32			1	E	30	
	10 52			5	E	35	A slanting streak seen only at 10h 52m
	8 22	4	10		E	35	Slightly changing. 30" high at 10h 51m.
	16	4	49.5		E	15, 25, 30	Three prominences close together.
	57	1	67.5		W	10	C displaced to red for 0.5 A; b ₁ , b ₂ , b ₃ , and b ₄ bright.
	55			58	W	10	

Date and observer.	Hour L.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South			
1910	H. M.	°	°	°		"	
March 8. A.Y.S.	8 52	2	...	19	W	20	Faint.
—contd.	49		7	4	W	30 ±	Ca prominence is 2° broad and 50' high.
	46		15		W	20	10" high in Ca
	45		20.5		W	15	
	43	1			W	20	
							Ca photographs 9 ^h 11 ^m and 8 ^h 25 ^m .
March 9. G.N.	9 4	.	51.5		E	10	
	11	7	44		E	60	
	11		27		E	45	See Note.
	8 58	4	22		E	60	Ca. } Connected in Ca.
	55	8	11		E	40	
	53	3		9.5	E	15	
	9 11			27	E	20	Ca. A streak flowing as far as - 35° E.
	3 58			34	E	10	
	9 11	1		50	E	45	Ca.
	11			71.5	E	20	Ca.
	8 51			78	E	20	
	50			82	E	20	
	9 16			34.5	W	15	
	15	5		20.5	W	45	
	12	1	4.5		W	15	
	12		18		W	15	
	11		25		W	20	
	11		34.5		W	10	Ca.
	11		38.5		W	10	Ca.
	10		44.5		W	35	Faint
	8	2	64		W	30	A Ca streak from this meets limb at + 58° W.
	11		80.5		W	15	Faint in O.
							Ca.
							Ca photograph 9 ^h 11 ^m .
March 10. A.Y.S.	8 85	.	63	...	E	20	Ca.
	35	4	47.5		E	50	Ca. Connected to limb at two points.
	32	1	23		E	100	Top about 5° broad A Ca streak from the middle goes to + 30° E.
	28	1	18.5		E	15	} Connected in Ca.
	28		15		E	35	
	27	9	2.5		E	20	} Connected by a short streak at base in Ca.
	22	4		10	E	20	
	20	0.5		24	E	15	
	20			28	E	20	35" high in Ca.
	19	2		46.5	E	25	15" do.
	35	.		55.5	E	10	Ca
	17			61	E	15	
	9 0			68	W	15	
	8 35	1		59.5	W	10	Ca.
	35	1		54.5	W	10	Ca.
	35			36.5	W	10	Ca.
	56	9		24.5	W	50	
	9 50		3		W	30	
	8 48		17		W	30	A Ca streak from top flows westwards to + 14°.
	48		19		W	15	
	48	1	21.5		W	20	A Ca streak from top flows northwards and meets limb at + 27° W.
	35		40		W	20	Ca. Top meets limb at + 43°.
	35		48.5		W	20	Ca. Top flows westwards.
	47		44.5		W	20	} Connected.
	35	2	46.5		W	20	
	35		48.5		W	20	Ca. Top flows northwards.
	40	0.5	55.5		W	60	} Connected.
	40	4	60		W	60	
	35	0.5	65		W	60	Ca.
							Ca photographs 8 ^h 35 ^m and 8 ^h 0 ^m .
March 11. S.S.	9 39	3	51	..	E	20	Ca.
	10 22	1	47		E	35	20" in Ca and connected to the last.
	19	1	30		E	30	
	19	1.5	26		E	60	Top flows northwards to + 28° E.
	15	1	10.5		E	20	
	15		7		E	10	
	9 41	4		12	E	45	30" high in Ca.

Date and observer.	Hour I.S.T.		Base.	Latitude		Limb.	Height.	Remarks.
				North.	South			
1910.								
March 11. —contd.	S.S.	H M.	°	°	°		"	
		9 35	1	..	27	E	30	
		34			32.5	E	10	
		32			58	E	10	
		10	1		58.5	W	10	30" high in Ca.
		39			39.5	W	20	Ca.
		2	1		24.5	W	15	} Connected. } Connected in Ca.
		2	1		28.5	W	40	
		39	1		30	W	30	Ca photograph 8 ^h 39 ^m (poor).
March 12	G.N.	8 18	.	31.5	.	E	10	Ca.
		18		54.5		E	15	Ca.
		58	2	48.5		E	50	Faint.
		55	10	34.5		E	75, 20	Three prominences. Connected in Ca.
		51	1	23		E	25	
		47	8	9		E	45, 30	
		41	6		10	E	45	
		36			34.5	E	25	
		33			36.5	E	25	
		23			42.5	E	15	
		27	2		48.5	E	40 ±	Faint.
		26			58.5	E	20	
		18			64	W	10	Ca.
		18			43.5	W	30	Ca. Seen only at 8 ^h 18 ^m .
		9 6	1		40	W	20	} Connected and form a single prominence in Ca.
		5	1		20.5	W	30	
		8 18		7		W	20	Ca. Seen only at 8 ^h 18 ^m .
		9 3		23		W	20	In Ca the prominence extends from + 28° W to + 22° W.
		1		42.5		W	20	
		1		46.5		W	60	Ca photographs 8 ^h 18 ^m and 8 ^h 32 ^m .
March 13.	A.Y.S.	9 13	5	49	...	E	50, 30	
		10	1	40.5		E	40	} Connected by an arch.
		10	2	36.5		E	40	
		0		33		E	10	
		5	2	24		E	30, 40	There is a small faint streak from top.
		2	8	5		E	25	40" high in Ca.
		8 55			7	E	20	} Connected in Ca.
		55	4		9	E	45	
		37			19	E	10	
		37	2		33.5	E	30	See Note 1.
		35	2		36.5	E	10	
		9 5			39.5	E	10	Ca.
		8 25			44.5	E	40 ±	See Note 2.
		32	1		52.5	E	20	
		9 5			88	—	15	Ca. Rather faint.
		8 27			61	W	15	Slants southwards.
		27	1		59	W	20	
		9 27	1.5		43.5	W	10	
		27	3		39	W	30	An arch covering 3° of limb 20" high in Ca.
		27	5		27.5	W	45	} Connected in Ca.
		25	1.5		21	W	30	
		5			1	W	10	A Ca streak from top extends to - 14° W.
		23	1.5	8.5		W	10	Ca.
		22		16		W	15	
		22		18		W	15	
		5	1	38		W	10	Ca.
		20		42.5		W	15	
		20		47		W	15	
		19		59.5		W	10	Ca photographs 9 ^h 5 ^m and 8 ^h 12 ^m .
March 14.	S.S.	9 19	3	54	..	E	40	See Note 1.
		17		45.5		E	10	
		16	2	41.5		E	30	15" only in Ca.
		14		38.5		E	10	
		12		30.5		E	15	Faint.
		8	9	21.5		E	30	20" high in Ca.
		0		14		E	20	Slants eastwards.
								Connected with the last in Ca.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Lumb.	Height.	Remarks.	
			North	South.				
1910.								
March 14. —contd.	S.S.	9 6	...	8		E	15	
		8 0			5	E	70	See Note 2.
		8 1			11	E	10	Ca.
		57	2		18	E	45	Ca. Two streaks slanting southwards. Seen only at 8 ^h 57 ^m .
		55			28	E	10	
		1			20	E	55	Ca Detached.
		1			44.5	E	45	Ca.
		50			54.5	E	20	A Ca streak flows from top to - 50° E.
		1			82.5	W	15	Ca.
		42			76	W	20	
		38			65	W	15	Slants westwards and is 10" high at 8 ^h 40 ^m .
		1			57.5	W	15	Ca.
		36			44.5	W	25	Slants to - 42° W. 15" only in Ca.
		34			39.5	W	25	Top flows westwards and is 45" high in Ca.
		32	1.5		32.5	W	25	
		32			29	W	20	
		32			26	W	10	
		28	1.5		19	W	45	C slightly displaced to red. 30" in Ca } See Note 3 } Connected in Ca.
		28			16	W	30	
		28			13	W	25	Detached
9 34			17	W	40	See Note 4.		
8 1			37.5	W	20	Ca. Slants northwards.		
1	2		48.5	W	70	Ca.		
9 27			55.5	W	10			
27			58.5	W	40	Faint Slants northwards, 30" high in Ca.		
8 1			62	W	20	Ca. Almost meets the top of the last prominence.		
1			79.5	W	15	Ca.		
March 15. A.Y.S.								
8 6	..		78	...	E	10	Ca.	
51			67.5		E	10		
6			89.5		N	10	Ca.	
6			35.5		E	10	Ca.	
50			32.5		E	10		
41	1.5		21.5		E	75, 45	Three connected prominences 60" and 45" high in Ca.	
33			3		E	10		
33	3			2.5	E	20		
31				7	E	20		
29	2			25	E	15		
27				89.5	E	10		
27				47.5	E	10		
6				58.5	M	15	Ca.	
25				73.5	E	10		
24				68.5	W	10	C displaced to red for about 0.5 Å.	
9 5	2			44.5	W	30	20" high in Ca.	
0				18.5	W	30, 40	Detached, faint.	
8 6			Equator.		W	15	Ca.	
56	1		16.5		W	20	40" high in Ca.	
56	1		24.5		W	20		
54			51.5		W	25		
53			88		W	10		
Ca photographs 8 ^h 6 ^m and 8 ^h 15 ^m .								
March 16. G.N.								
8 1	...		49.5		E	20	Ca.	
1			45.5		E	10	Ca.	
1			37.5		E	10	Ca.	
1			30.5		E	10	Ca	
9 8	9		25.5		E	70		
0	1		19.5		E	35	} Connected in Ca.	
8 40	11			4.5	E	25, 45	25" high in Ca. A Ca streak from top at N. end meets lumb at + 7° E.	
1				21.5	E	40	Ca. Detached and faint.	
35	5			28.5	E	20, 45	20" high in Ca. A Ca streak from top flows to -22° E.	
31				41	E	15		

Date and observer.	Hour I.S.T	Base.	Latitude.		Limb	Height.	Remarks.
			North.	South.			
1910.	H M.	°	°	°		"	
March 16. —contd.	G.N.	.	..	44 55.5 69 76 83 80	E E E E W	15 45 20 25 10 30	See Note. Ca. Ca.
		3		45	W	40	
		3		38	W	20, 15	Ca. Faint.
				28	W	10	Ca.
				4	W	15	Ca. Faint.
				2	W	10	Ca.
			12		W	15	
			33		W	65	Ca. A detached faint streak.
			47.5		W	15	Ca.
		3	58		W	20	Faint. Ca photographs 8 ^h 1 ^m and 8 ^h 16 ^m .
March 17.	S.S.		79.5	...	E	10	Ca.
			56.5		E	30	Ca.
			51.5		E	25	10" high in Ca. Faint.
			50.5		E	35	Very faint.
			48.5		E	30	Very faint.
		1	37.5		E	10	
			35.5		E	10	Ca.
		6	29		E	45	
		34		3	E	70, 60	See Note 1.
		6		27	E	20	
				44.5	E	10	Ca.
				50.5	E	10	Ca.
				54.5	E	10	
				71	E	10	
				74	E	10	
				88	W	20	Ca. Seen only at 8 ^h 17 ^m .
				50.5	W	20	} Connected in Ca.
		3		48	W	45	
				48.5	W	20	
		1		36	W	40 ±	Faint.
		1		27.5	W	10	
		3		8	W	30	} Meet at top, and 20" high in Ca.
				1	W	35	
			8		W	15	An arch covering 4° of limb.
			29		W	40	See Note 2
			51.5		W	10	Ca.
		1.5	57.5		W	20	10" high in Ca.
			80		W	25	O slightly displaced to V at top. Almost completely gone at 9 ^h 25 ^m . See Note 3.
March 18.	A.Y.S.	...	79.5	...	E	15	Ca.
			58.5		E	10	30" high in Ca.
			51.5		E	45	Ca.
			33.5		E	20	
		1	30.5		E	20	
		2	19		E	25	A Ca streak from top meets limb at + 28° E.
		34		2	E	70, 65, 40	90" and 105" high in Ca.
				27	E	45	Ca. Faint. Top slants to — 31° E.
				38.5	E	15	Ca.
				51.5	E	10	
				82.5	E	10	
				69	W	10	See Note 1.
		5		44	W	60	See Note 2.
				31.5	W	20 ±	
				17.5	W	10	
		10		8	W	20, 30	
		2	3		W	15	
			6		W	10	The Ca prominence extends over 8° of limb and is 40" high.
		3	26.5		W	25	Top bends as far as + 21° W.
		1	30		W	45	The Ca prominence extends over 5° of limb. } Connected in Ca
		0.5	38		W	10	See Note 3.
			45.5		W	10	

Date and observer.	Hour L.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	n. m.	°	°	°		"	
March 18. A.Y.S. —contd.	8 52	...	55°5	.	W	20	} Tops connected by a Ca streak. Ca. Ca photographs 8 ^h 17 ^m and 8 ^h 3 ^m .
	52		57°5		W	20	
	17	1	80		W	30	
March 19. G.N.	9 8	1	55°5	..	E	30	} See Note. Faint. Ca. Top slants to + 1° W. } Connected in Ca and extends from + 16° W. to + 26° W. Ca photographs 8 ^h 14 ^m and 8 ^h 0 ^m .
	5		37°5		E	20	
	4	.2	32°5		E	40	
	8 55	30		3	E	30, 70, 45	
	50	.1		23	E	20	
	48			38°5	E	15	
	47			54	E	20	
	46			69	E	15	
	45			81°5	W	30	
	9 3			54°5	W	15	
	12	4		44°5	W	70	
	8 14		3		W	45	
	9 10	1	17°5		W	10	
	10	2	20		W	35	
March 20. A.Y.S.	8 52	...	78°5	.	E	10	} Only 4" broad in Ca. Ca. Slants northwards. Ca. Slants northwards. } Slants eastwards. 60" high in Ca. Ca. A detached streak. Two Ca streaks 60" high flow southwards from the top. Ca. Ca. Ca. Ca. } Very faint. } Connected in Ca. Slants westwards. Ca. Ca photographs 9 ^h 19 ^m and 9 ^h 57 ^m .
	52	7	58°5		E	40	
	52		48°5		E	10	
	48	2	35°5		E	20	
	9 19		24		E	40	
	19		22		E	30	
	8 45	3		0°5	E	30	
	42			11	E	20 ±	
	9 19			11	E	40	
	14			15	E	10	
	14	1		17	E	10	
	8 40	4		24	E	15	
	9 12			35°5	E	10	
	19	1		39	E	20	
	11			32	W	10	
	10	4		45°5	W	55	
	19		4		W	10	
	19		6		W	10	
	19		13		W	35	
	5		14		W	20	
5	2	17		W	40		
2	1	22°5		W	20 ±		
0	1	29°5		W	35		
8 57		44		W	10		
9 10		55°5		W	10		
March 21. S.S.	8 34	...	81	...	E	15	} Ca. } See Note 1. 2" long, detached. Ca. Very faint. Ca. Ca. Slants to + 11° E. Ca. Very faint. } Ca prominence extends from -48° to -50° W. and is 40" high
	9 6		78		E	10	
	6		78°5		E	30	
	4	1	57		E	25	
	1		52°5		E	15	
	8 34	0°5	45°5		E	15	
	58	1	35		E	35	
	54		16		E	20	
	53	2	14		E	10	
	34			5	E	20	
	34			14	E	40	
	34			20	E	15	
	46	1		36	E	20	
	49			50°5	E	10	
	39			62	E	10	
	38	0°5		65	E	15	
	38	1		71	E	10	
	34			81	E	15	
	33			88	E	10	
	27	3		47	W	25	
	25	0°5		42	W	15	
34			35°5	W	10		

Date and observer.	Hour L.S.T.		Base.	Latitude.		Limb.	Height.	Remarks.
				North.	South.			
1910. March 21. —contd.	S.S.	H M.	°	°	°		"	
		8 34	0.5		30	W	10	Ca.
		22	1		28	W	10	
		20	1		22	W	10	
		20			20	W	10	
		9 40			12	W		
		8 37	9	35		W	45	See Note 2.
		34		9		W	10	Streaks from top meet limb at - 6° W.
		8 32		13.5		W	20	Ca.
		30	1	28		W	30	Extends to + 25° W. in Ca.
		8 34		35.5		W	30	Ca.
		9 25		44.5		W	10	Very faint.
		20	2	51.5		W	60	Extremely faint. Slants to + 45° W. in Ca.
		8 34	0.5	61		W	15	Ca.
		34	0.5	88		W	15	Ca. Ca photographs 8h 84m and 8h 16m.
March 22.	G.N.	8 39	5	52		E	25	
		36	4	37.5		E	35	
		33	3	26.5		E	50	
		32	1	21.5		E	30	} Connected in Ca and extends from + 11° E. to + 32° E.
		30	1	15		E	30	
		27	8		7.5	E	30	
		25			13	E	30	Ca.
		25	1		23.5	E	20	
		25			86	W	10	Ca Low in hydrogen.
		57	5		49	W	50	35" high in Ca.
		25			29	W	10	Ca.
		54	1		9	W	15	
		52	10	Equator.		W	20	40" at N. end, and 30" at S. end in Ca.
		25		15		W	10	Ca. Faint
		25		27		W	10	Ca.
		45	2	50.5		W	60 ±	See Note 1. Ca photographs 8h 25m and 8h 4m; (foculus) 8h 18m. See Note 2.
March 23.	A.Y.S.	9 8	...	82.5	...	E	10	25" high and seen only at 9h 11m in Ca.
		0	3	53		E	30	A small streak from this meets limb at + 57° E.
		5		40.5		E	25	Faint in Ca.
		8 28		35.5		E	10	Ca.
		9 3	1	28.5		E	40 ±	Top faint and flows northwards. 20" high in Ca.
		1	1	16.5		E	10	Top flows to + 25° E.
		8 38		14		E	40	See Note 1.
		34		6		E	15	Very faint.
		28	1	2.5		E	25	Ca.
		30	1		4	E	20	
		30			7	E	20	
		28			14	E	15	Ca.
		26	4		22	E	30	
		21			77	W	15	
		11			73.5	W	20	Ca. Seen only at 8h 11m.
		15	5		50	W	60	
		23			27	W	10	Ca.
		9 18		14		W	10	
		8 11		15		W	10	Ca. Seen only at 8h 11m.
		28		37.5		W	20	Ca.
		9 12	1	49		W	35	In Ca, top bends westwards and meets limb again at + 40° W.
								60" high in Ca.
		23		74.5		W	15	Ca.
		23		73		W	15	Ca.
		11		81		W	30	Ca. Seen only at 8h 11m. Ca photographs 8h 23m, 8h 11m, and 9h 11m. See Note 2.
March 24.	S.S.	8 18	...	70.5	..	E	10	Ca. Seen only at 8h 18m.
		18		55.5		E	15	Ca. Do.
		54	1	52		E	20	
		44	3	38		E	50	Changing. Not in Ca.
		40		29		E	40	Detached. Not seen at 8h 47m.
		47		24		E	20	Not seen at 8h 40m.
		6		19		E	75	Ca. Slants to + 22° E. Seen only at 8h 6m.

Date and observer.	Hour I.S.T.	Base	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
March 24. U.S.	8 38	1.5	15	...	E	15	
<i>—contd.</i>	6			7	E	10	Ca
	8			19	E	10	Ca
	30	1		21.5	E	40	Top slants northwards.
	30	1		23.5	E	40	} Connected in Ca.
	30	0.5		30	E	30	
	24			41.5	E	10	
	19	2		88	...	15	
	17			80	W	20	
	16			68	W	10	
	11	8		51.5	W	45	
	5	2		27	W	50	30" high in Ca
	9 19	2		10.5	W	30	} Connected at base in Ca.
	13			1	W	15	
	10	7	46		W	50	70" high in Ca.
	8 6	1	58		W	15	Ca.
	9 5		74		W	10	
March 25. G.N.	8 1	0.5	56.5		E	10	Ca photographs 8 ^h 6 ^m and 8 ^h 18 ^m .
	1	1	45.5		E	30	Ca.
	9 0	5.	40.5		E	30	Ca.
	8 58		30		E	30	} Connected in Ca and
	58		27.5		E	40		} extend from + 34° to
	55		21		E	70	} 20° E. in it.
	52		17.5		E	15		Detached.
	52		14		E	20	
	1			4	E	10	Ca.
	1			8	E	10	Ca.
	50			11	E	20	
	1			20	E	10	Ca
	1			22	E	15	Ca. Top bends over 2° of limb
	1			38	E	10	Ca.
	47			38.5	E	40	Detached.
	1			48.5	E	10	Ca.
	45	1		48.5	E	40	
	9 15	3		50	W	45	
	8 1	3		23.5	W	25	Ca.
	1			18	W	10	Ca.
	1			18	W	15	Ca
	9 12	6		12	W	95	75" high in Ca.
	8	2	8		W	30	
	6	1.5	23		W	35	} Tops connected
	6	3	27.5		W	45	
	5	3	45		W	50	} Tops connected in Ca.
	8 1		48.5		W	50	
	1		52.5		W	10	Ca
	9 8		70.5		W	15	
							Ca photographs 8 ^h 1 ^m and 8 ^h 25 ^m . (Flocculus) 8 ^h 27 ^m . See Note.
March 26. A.Y.S.	8 0		82	...	E	10	Ca.
	0		78		E	10	Ca.
	9 0	3	57		E	30	
	8 55	1.5	41		E	45	Upper part detached from lower.
							Extends from + 38° to + 45° E. in Ca.
							See Note 1
	50		31		E	110	
	46	1	23.5		E	20	
	46	1	20.5		E	20	
	46		18		E	10	A Ca arch 50" high connects this with the prominence at - 23° 5 E.
	48	1		5	E	15	
	9 20	0.5		16	E	15	Ca. Seen only at 9 ^h 20 ^m .
	8 42			22	E	10	
	41			35.5	E	15	
	40	1		46.5	E	20	
	38	2		67.5	E	15	
	30	11		51	W	30, 80	See Note 2.
	9 11	1		35	W	20	Top flows to - 32° W.
	11			30	W	25	
	20			4	W	20	Ca. Seen only at 9 ^h 20 ^m .
	8	3	5.5		W	50	70" high in Ca.
	5	7	22.5		W	45	

Date and observer.	Hour I S.T.		Base	Latitude		Limb.	Height.	Remarks.
				North.	South.			
1910. March 26. A.Y.S. —contd	H.	M.	°	°	°		"	
	9	4	2	84	.	W	20	
		2	1	48.5		W	25	See Note 3.
	8	0		57.5		W	70	Ca. Slants to + 53° W. Ca photographs 8h 0m and 9h 20m.
March 27. A.Y.S.	8	48	5	58		E	30, 50	60' high in Ca.
		42		48		E	10	
		40		34		E	60 ±	Faint. Slants to north. 100" high in Ca.
		36	5	25.5		E	20	Two prominences close together.
		34		20		E	15	
		31		0.5		E	10	
		19	7		22.5	E	20	Ca. Faint.
		30	1		34	E	20	
		27	1.5		39	E	25	Connected in Ca.
		26	4		41.5	E	25	
		24			55.5	E	15	
		21			77.5	E	.	No prominence. C slightly displaced to red.
		20			82	W	10	
		19			72	W	10	Ca.
		20	0.5		65.5	W	10	
		18	10		52.5	W	40	
		15			39.5	W	30	Faint. Detached. } See Note 1.
		14	1		37	W	25	
		19			20	W	30	Ca.
		19			16	W	20	Ca.
		19			14	W	15	Ca.
		19	1		0.5	W	15	Ca.
		59	4		6	W	20	See Note 2.
		58	4	5		W	40	
		54	10	20		W	50	
		50		39.5		W	20	Very faint
		19		56.5		W	10	Ca. Faint.
		19		79		W	30	Ca. Ca photographs 8h 19m and 8h 34m.
March 28. S S	8	28	...	65	...	E	10	Ca.
	9	31		60.5		E	80	See Note 1.
		29	3	57.5		E	60	
		28	2	53.5		E	80	
		24	1	44.5		E	10	
	8	28		35.5		E	60	Ca. Top bends and almost meets limb at + 39° E.
	9	20	3	26.5		E	80	Top faint in Ca.
		20		24		E	10	
		17		20		E	35	Very faint at top. 75" high in Ca.
		13		16		E	15	
		11	1		7	E	20	85" high in Ca. Ca streamers run both ways to + 4° and + 8° E
		10	1		15	E	10	
	8	28			19	E	75	Ca. A cloud 9° long and connected to limb by a slender stem
	9	9			23	E	15	
		5	2		35.5	E	30	
		5			40.5	E	35	Tops connected in Ca.
		2	1		44	E	25	
		0			51.5	E	10	Ca prominence extends from - 46° to - 52° E.
	8	58			72	E	15	Very faint.
	9	54	1		67	W	10	Not seen at 8h 50m
		54			64	W	15	
	8	50	8		53.5	W	30, 20	
		28			38.5	W	10	Ca.
		42	1		24.5	W	10	
		23			14	W	90	See Note 2.
		38			10.5	W	10	
		28			8	W	50	Detached. } Two jets faintly connected at base
		28			4	W	30	Do }
	9	51			2	W	20	Top slants northwards to + 3° W.
		50	0.5	13		W	45	
		50	1.5	15.5		W	55	45" high in Ca. } Tops connected in Ca by
		46	1	24.5		W	25	streamers which meet limb
		43	4	32		W	25	60" high in Ca. } at + 38°.
		41	0.5	42.5		W	10	40' high in Ca.
		36	0.5	82		W	15	Ca photographs 8h 28m, 8h 18m and 9h 3m.

Date and observer.	Hour I. S. T.	Base.	Latitude.		Lamb.	Height.	Remarks.
			North	South			
1910.	h. m.	°	°	°		"	
March 29. A.Y.S.	8 30	1	69		E	15	
	21	1	68.5		E	10	Ca
	27	4	59.5		E	20	
	26	1.5	54.5		E	10	
	21		40.5		E	15	Ca Faint
	22	0.5	33		E	20	
	22	1.5	27		E	60	90" high in Ca } See Note 1.
	21		6		E	60	Ca Slants to + 1° E
	17	2		3	E	30	
	18			6	E	15	
	15			16	E	25 ±	In Ca 60" high; slants northwards and a streak from top flows to - 9° E.
	12	2		38	E	30	Faint } Connected in Ca
	12			35.5	E	30	
	21			43	E	45	Ca. Detached } Connected in Ca.
	11	4		47.5	E	30	
	7	1.5		57	E	10	
	7			59.5	E	Low.	45" in Ca.
	5			62.5	W	10	
	0	4		53.5	W	40	
	21	2		42.5	W	90	See Note 2.
	50	3		27.5	W	20	
	50	1		25	W	15	
	45			13	W	10	25" high, detached and faint in Ca.
	21			6	W	20	Ca Faint.
	42	1.5	14		W	20	} Tops connected by a Ca streak.
	40	1.5	22.5		W	30	
	34	1	29.5		W	45	} 20", 40" and 75" high in Ca. Ca photographs 8h 21m and 8h 3m.
March 30. G.N.	7 59	...	82.5		E	30	Ca
	59		59.5		E	20	Ca.
	59	1	57.5		E	20	Ca. Faint.
	59	3	38		E	45	Ca.
	59	2	34		E	40	Ca.
	59		29		E	40	Ca. Slants to + 31° E.
	8 40		25		E	10	Seen only at 9h 3m in Ca.
	9 3		24		E	10	Ca. do.
	3		22		E	30	Ca. do.
	3		15		E	10	Ca. do.
	8 37	2		4	E	25	A Ca streak flows to + 3° E. } Connected and 15", 35" and 45" high in Ca.
	37	1		7.5	E	35	
	34	6		15	E	65	
	28	8		48.5	E	70	50" high in Ca.
	35	1		75.5	W	10	
	55	2		55.5	W	45	20" only in Ca.
	7 59			48.5	W	10	Ca.
	59	1		44	W	60	Ca. A slanting streak.
	8 53	3		29.5	W	45, 30	Two prominences; 25" in Ca
	50	2		23	W	30	20" in Ca.
	7 59			6	W	30	Ca. Faint. Continued into disc on the flocculus plate as far as - 21° W.
	8 43	1	22.5		W	30	} Tops connected by a Ca streak.
	47	3	23.5		W	50	
	45		43.5		W	30	See Note
	43		52		W	15	
	43		72.5		W	20	Shows slight displacement to violet in C.
	7 59		80.5		W	15	Ca Ca photographs 7h 59m and 8h 3m.
March 31. S.S.	9 24	.	78	...	E	10	
	22	3	59		E	25	40" high in Ca.
	20		47.5		E	25	Slants eastwards. 15" high in Ca.
	19		39.5		E	10	
	16	1.5	15		E	35	Top flows northwards.
	8 43		10		E	10	Ca
	9 6	3		10.5	E	50	Top flows and meets the next prominence.
	3			13	E	80	A cloud connected to limb by two stems at - 10° and - 16° E.
	8 53	6		45.5	E	30, 75	20" and 45" in Ca.
	50			79.5	E	15	

Date and observer.	Hour [S T		Base	Latitude.		Limb.	Height	Remarks.
				North.	South.			
1910.	H	M.	°	°	°		"	
March 31.	S.S.	8 49			82	E	10	
—contd.		43			78	W	10	Ca.
		42	3		57	W	25	
		48			38.5	W	15	Ca.
		36	1		32.5	W	10	
		48			28.5	W	70	Ca. A detached streak.
		35			26	W	15	
		30	15		7.5	W	30	Northern part very faint
		19	1	3		W	10	
		9 40	1	19.5		W	25	} Tops connected by a Ca streak. 40" and 60" high in Ca.
		39	1	29.5		W	25	
		35		37.5		W	20	Ca prominence extends to + 48° W
		8 48		46		W	45	Ca. A faint broken cloud connected to limb by a stem at + 45° 5' W.
		9 34		49.5		W	10	
		31	2	61.5		W	45	Very faint. A Ca streak from top flows to + 54° W.
		28		70.5		W	10	
		27		77.5		W	10	
								Ca photographs 8 ^h 43 ^m and 8 ^h 14 ^m
April 1.	A.Y.S.	8 47	...	75.5	..	E	10	
		47		72		E	10	
		28		60.5		E	15	Ca.
		44	3	57		E	35 ±	Top faint. Changing slightly 15" high in Ca
		28		44.5		E	10	Ca. Faint
		41		41.5		E	15	
		28		39.5		E	50	Ca. Detached.
		26		29		E	15	Ca.
		26		27		E	10	Ca.
		26	4	22		E	15	Ca.
		40		16		E	20	
		40		13		E	20	A streak from top of this meets the base of the last prominence
		85	6		12	E	40	A Ca streak from northern end, 20" in height, flows to - 5° E.
		26	6		43.5	E	60	
		28			51	E	15	
		22			59	E	10	
		20			83	E	10	
		9 15			44.5	W	10	
		8 26	1		38.5	W	20	Ca.
		26			33	W	20	Ca. Slants southwards.
		9 14	12		15	W	35	
		12			1	W	40	Faint. A Ca streak connects the top of this with the last prominence.
		8 26		9		W	15	Ca.
		9 10	2	14		W	20	
		10	1	18.5		W	25	A Ca streak from top of this, 40" in height, flows to + 28° W.
		8 26		26		W	15	Ca.
		20		27		W	20	Ca.
		26		31		W	20	Ca.
		58	2	36.5		W	10	Faint. 30" high in Ca.
		57	5	52		W	30	
		52		57.5		W	30	Top broader and extends to + 62° W. Ca photographs 8 ^h 26 ^m and 8 ^h 13 ^m .
April 2.	G.N.	8 46	..	78	...	E	15	
		46		73		E	15	
		45		63.5		E	15	
		42		56		E	45	See Note 1.
		39		50.5		E	15	
		36	1.5	35.5		E	20	
		35	1	7		E	25	See Note 2.
		14			8	E	10	Ca.
		38	1		12	E	10	
		30			22	E	10	
		14	2		33	E	10	Ca.
		27	1		42.5	E	10	Double jets. This is continued into the disc on the focculus plates for 50°.

Date and observer.	Hour L.S.T.	Base.	Latitude.		Limb.	Height	Remarks.		
			North.	South.					
1910.	H. M.	"	"	"		"			
April 2. — <i>contd.</i>	G.N.	8 27	2	47.5		E	45		
		25	1	54.5		E	15		
	14			28		W	15	Ca	
	9 6	3		20.5		W	35	20" high in Ca.	
	4	6		11		W	45		
	4	1		4		W	30		
	4	1		1.5		W	70	Faint } Connected and 70" and 80" high in Ca.	
	0		34.5			W	25	A number of jets extending from + 30° to + 40° W.	
	8 14	1		51.5		W	20	Ca	
	55	2.5		56.5		W	45	An arch	
	14			63.5		W	30	Ca. Ca photographs 8 ^h 14 ^m and 8 ^h 6 ^m .	
	April 3	A.Y.S.	8 45	2	49.5		E	30	Ca.
			45		40.5		E	15	Ca.
			23		29.5		E	10	
22			1		24.5		E	30	Two jets
45				20		E	10	Ca	
19			13		4.5		E	30	A thin Ca streak from the base flow to + 6° E.
14					32		E	30	
7					42.5		E	10	
7			1.5		45.5		E	10	
4			1		60		W	10	See Note.
54			6		16		W	40	Changing
45					5		W	10	Ca.
50				Equator.			W	10	
49			1		12.5		W	15	
49			2		15		W	35	Faint } A Ca streak from + 8° W, connects the tops of these prominences, and meets limb again at + 28° W.
49			0.5		19		W	15	
44			2		33		W	30	
40					38.5		W	15	30" high in Ca.
40			41.5		W	10			
34	5		56		W	50	High wind and unsteady limb. Ca photographs 8 ^m 45 ^m and 8 ^h 35 ^m .		
April 4	S.S.	8 23	..	75		E	10	Ca.	
		43	4	57.5		E	60	45" high in Ca. A Ca streak from top, meets limb at + 53°.	
		23		48.5		E	15	Ca	
		41		45.5		E	10		
		23		43.5		E	10	Ca.	
		23		42.5		E	10	Ca. Faint	
		40	3		25.5		E	25	
		37			9.5		E	20	
		36	2		1.5		E	50	Two Ca streaks from top } Tops connected by a flow as far as + 11° W. } streak; 25", 30" and 40" high in Ca.
		36	2		5		E	50	
		34	2		10		E	50	
		34			29		E	25	Detached.
		34	1		33.5		E	10	
		23			44.5		E	15	Ca. Faint.
		32			47.5		E	10	A Ca streak from top 35" high extends to - 51° E.
		30	10		55.5		E	30	
		29			66		E	10	
		23			83		E	10	Ca.
		23			79		W	15	Ca.
		25			62		W	15	
		53		4			W	10	
		23		8			W	15	Ca Detached.
52	3		15.5		W	45			
51	4		26		W	45	Connected in Ca and extend from + 11° to + 36° W.		
50			30		W	30			
49			35		W	10			
48	1		47		W	20	See Note.		
47	5		56		W	70			
10			60.5		W	30	Ca. Seen only at 8 ^h 10 ^m . High wind from East. Ca photographs 8 ^h 23 ^m and 8 ^h 10 ^m .		

Date and observer.	Hour L.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North	South.			
1910.	H. M.	°	°	°		"	
April 5. G.N.	8 45	...	83.5	.	E	15	Ca.
	26		71		E	15	Ca.
	26		63.5		E	10	Ca.
	44	1	57		E	10	Two prominences
	26		51.5		E	10	Ca.
	26		45.5		E	20	Ca.
	26	2	41.5		E	40	Ca.
	26		32		E	10	Ca.
	42		20		E	85	20" high in Ca.
	40		2		E	15	
	39	2		13	E	20	
	37			20	E	15	
	37	1.5		26	E	30	
	35			37	E	15	
	34	14		53.5	E	45, 30	
	28			64	E	20	
	28			70.5	E	10	
	26	1		75.5	E	15	Ca.
	25			64.5	W	15	
	25			62	W	10	
	26			33	W	15	Ca.
	26			21	W	10	Ca.
	57			17	W	20	
	57	1.5		11.5	W	20	Top extends both ways to - 8° and - 13° W.
	56	1	4.5		W	10	20" high in Ca.
	26		8		W	10	Ca.
	55	1	14.5		W	20	
	54	3.5	24.5		W	30	
	51	3	29		W	25	} Connected, and 20", 45", and 80" high in Ca.
	51	1	33		W	25	
	50	5	37		W	30	
	26		43.5		W	20	Ca. Detached.
	43	7	54		W	60	110" high in Ca.
	26		81		W	10	Ca. Strong wind. Ca photographs 8h 26m and 9h 9m.
April 6. A.Y.S.	8 42	1	60	...	E	10	Ca.
	22		52.5		E	10	Ca.
	40	2	40		E	35	Ca prominence extends from + 46° to + 40° E.
	22		33		E	20	Ca
	35	2	16		E	60	Very faint. Top broader.
	28	2		1	E	35	} Connected in Ca.
	27	1		5.5	E	20	
	27	1		8.5	E	10	
	25	2		12	E	20	
	20	8		29	E	40	60" high in Ca.
	11			49.5	E	20	
	11	7		53	E	60	Top bends and meets the last prominence.
	8	0.5		75.5	E	10	Bright.
	8			82	E	10	
	7			56.5	W	10	
	9 11			49.5	W	15	See Note 1.
	11	1		44	W	10	
	8 22			32	W	15	Ca.
	22			25	W	15	Ca.
	9 9	2		19	W	30	Ca prominence extends to - 23°.
	7	1	30		W	30	Top flows southwards and almost meets limb at + 26° W.
	1	5	37.5		W	25 ±	} Connected in Ca.
	8 56		42.5		W	20	
	52	10	51.5		W	40 ±	
	22		73		W	20	
	45		82		W	10	Ca. See Note 2.
April 7. S.S.	8 42	...	83.5	...	E	10	Ca.
	46		80.5		E	10	
	42		74		E	10	Ca.
	44		68.5		E	10	

Date and observer,	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	'	'		"	
April 7. —contd.	S.S.	...	41.5	..	E	20	} Connected and form a single prominence in Ca. extending from + 41° to + 45° E. and 30" in height Ca. Double. Ca. Very faint. Very faint. 2° broad in Ca. 30" high in Ca. Top flows eastwards to - 22°. Ca. Seen only at 8 ^h 42 ^m . Ca. } Short jets close to each other. Ca. } Tops meet Ca. } Connected in Ca. 45" in Ca. A Ca streak from top flows to + 56° W. Ca. Ca photographs 8 ^h 42 ^m and 8 ^h 29 ^m .
	8 42	...	41.5	..	E	20	
	42		39.5		E	15	
	42		26		E	10	
	39		23		E	10	
	42		22		E	10	
	38		20		E	20	
	34			13	E	30	
	34			17	E	10	
	34			20	E	10	
	34			23	E	10	
	32	4		28	E	70	
	29			46.5	E	10	
	28	4		50.5	E	65	
	42			82	E	40	
	21			76.5	W	10	
	42			49.5	W	15	
	18			35.5	W	10	
	17			28	W	10	
	42			26	W	10	
	42			24	W	10	
	16			23	W	10	
	42		31		W	20	
	54		34		W	30	
	54	1	37.5		W	30	
	54		39.5		W	30	
	54	2	42.5		W	30	
	53	2	44.5		W	10	
	42		46.5		W	10	
	51	3	64		W	25	
	42		88.5		W	10	
April 8.	G.N.	9 2	79.5	...	E	30	} Three prominences close together. 20" high in Ca. Ca. Slants northwards. Very faint in Ca. Ca. Ca. Ca streaks from top meet limb at + 64° W. Very faint in Ca. Ca photograph 9 ^h 21 ^m through cirrus (poor). Ca. Ca. A faint Ca streamer 90" high flows from top to + 49° E. 30" high in Ca. See Note. Ca. Ca. A detached streak. The prominence is continued into the disc on focculus plate to an extent of 35°. Ca. Almost detached. Ca.
		2	77		E	15	
		0	65.5		E	15	
		30	14.5		E	20	
		29	8		E	40	
		21		2	E	15	
		8 56		10.5	E	20	
		56		13	E	20	
		9 26		25	E	20	
		26		28.5	E	45	
		8 53		51	E	60	
		9 21		76	E	15	
		8 50		88.5	E	30	
		9 12		30.5	W	15	
		21		10.5	W	30	
		10	40.5		W	30	
		8	58.5		W	60	
		2	78		W	15	
April 9.	A.Y.S.	10 33	69	...	E	15	
		38	54.5		E	15	
		8 54	44.5		E	35, 50	
		52	38.5		E	20	
		50	33		E	10	
		10 50	22.5		E	10	
		49	3.5		E	10	
		39		7.5	E	40	
		38		30	E	20	
		38		48.5	E	100	
		30		49.5	E	75	
		27		80	W	10	
		27		78.5	W	10	
		38		38	W	15	
		11 15		22	W	20	
		15		18	W	30	
		10 38		10.5	W	30	

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
April 9. A.Y.	11 12	3	27.5	...	W	25	Almost detached. Connected to limb and 45" high in Ca.
—contd.	8	4	54.5		W	35 ±	Faint. Top flows to + 51° W. and 65" high in Ca.
	3		60		W	10	Seeing poor. Ca photographs 10 ^h 38 ^m and 11 ^h 1 ^m through currus.
April 10. G.N.	8 9	1	01	..	E	10	Ca.
	9 9		46.5		E	10	Ca.
	9 9		44.5		E	15	Ca.
	9 9		37		E	15	Ca.
	49 9	3	23		E	10	Ca.
	45 9	14	9.5		E	35	20" high in Ca.
				7	E	80, 50	Changing. Shows displacement to red for 1.5 Å at -3° E.
	9 9			25	E	15	Ca.
	9 9			27	E	15	Ca.
	9 9			48.5	E	75	Ca. Top slants eastwards.
	39 9	8	51.5		E	15, 45, 30	See Note.
	35 9	1	79		E	40	Shows displacement to violet for about 1.0 Å at the top only.
	9 56	1		49.5	W	20	
	55 56	1		42	W	30	
	55 56			40.5	W	20	
	8 9	1		28.5	W	15	Ca.
	9 52	0.5		16	W	15	
	8 9			11	W	15	Ca.
	9 51		8		W	25	
	50 51	0.5	27		W	45	
	48 51		54.5		W	35	} Connected and form a single prominence in Ca, 50" high.
	48 51		57.5		W	25	
	8 9	1	68.5		W	20	Ca. Ca photographs 8 ^h 9 ^m and 8 ^h 54 ^m .
April 11. A.Y.S.	8 47	1.5	75	...	E	20 ±	
	45 47		35.5		E	10	
	44 47		43.5		E	10	
	42 47	3	24.5		E	20	30" high in Ca.
	35 47		19		E	20	
	35 47	1	15.5		E	50	Slants northwards. } Tops connected by a Ca streak.
	35 47	5	11.5		E	50	
	30 47		6		E	25	
	20 47			6	E	45	} See Note.
	26 47			8	E	45	
	9 8			12	E	15	
	8 21	2		28	E	25	
	19 21	6		51.5	E	50	This prominence is continued on disc on flocculus plate to an extent of 55°.
					E	20	O slightly displaced to violet at top.
	15 21			56	E	10	
	11 21			78.5	E	10	
	11 21			74.5	W	10	
	11 21			64.5	W	15	
	9 0	1		58.5	W	15	
	8 59			49	W	10	
	58 59	3		42.5	W	20	
	6 59	1		34	W	15	Ca.
	6 59			29	W	10	Ca.
	6 59			24	W	55	Ca. Slants westwards.
	6 59			28	W	20	Ca.
	6 59		11		W	10	Ca.
	55 59	1	28		W	20	Faint.
	54 59		38		W	20	
	6 59		41		W	15	Ca.
	53 59		42		W	10	
	50 59		56		W	20	8° broad, and 30" high in Ca. Ca photographs 8 ^h 6 ^m and 8 ^h 14 ^m .
April 12. S.S.	9 8	...	66.5	...	E	10	O slightly displaced to violet.
	8 28		47.5		E	25	Ca.
	9 6		42		E	10	
	0 6	2	30		E	20	} Connected. } Connected in Ca.
	0 6	4	28		E	70	
	8 58		17		E	40	

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.	
			North.	South.				
1910.	H. M.	°	°	°		"		
April 12. —contd.	S.S.	8 23	..	...	9	E	30	Ca.
		46			25	E	15	
		46	1		30	E	15	
		28			41	E	10	Ca.
		28	2		46.5	E	30	Ca.
		42			48.5	E	30	Faint.
		40	5		52	E	55	This prominence is continued on disc in flocculus-plate for 77°.
		31			80	W	10	
		31			79	W	10	
		27			60	W	10	
		26			53	W	20	Faint.
		24	2		45.5	W	20	This prominence is continued on disc in flocculus-plate for 35°.
		24			48	W	30	15" high in Ca.
		23	4		29	W	20	Ca. Faint.
		9 22			28	W	60 ±	Very faint. } Tops connected and extend in Ca as far as + 26° W.
		8 19			19	W	10	
		19			17	W	10	
		23		16		W	20	Ca.
		23		29		W	25	See Note.
		9 15	2	43		W	30	Ca streaks from top flow to + 38°.
		8 28	1	56		W	45	Ca. Top slants to + 52° W.
		23		78.5		W	10	Ca.
		23		88		W	10	Ca.
	23		84		W	10	Ca.	
							Ca photographs 8h 28m and 8h 13m.	
April 13.	S.S.	9 34	...	81	..	E	15	
		32		57.5		E	20	
		30		48.5		E	10	
		30	2	45.5		E	20	
		23	7	28.5		E	70	
		8 13		20		E	20	Ca.
		9 18	8	9.5		E	30	
		16	2	4		E	15	
		13	11		7	E	40	} Tops connected by a Ca streak.
		8 13			19	E	15	
		9 8	1		26	E	20	Ca. }
		5	3		52	E	45	This prominence is continued on disc in flocculus-plate.
		8 59			78.5	E	15	C slightly displaced to violet.
		59			80.5	E	15	
		55			88	W	Low.	Rising. 15" at 8h 56m. C slightly displaced to red.
		13			77	W	30	Ca.
		52			67.5	W	25 ±	Extremely faint.
		52			62	W	25 ±	Do.
		51			60	W	20	Very faint.
		48			46	W	25, 60	75" high in Ca.
		45			34	W	20	
		13			28	W	15	Ca.
		42			22	W	15	
	40			21	W	10		
	38	1		13.5	W	45	60" high in Ca.	
	33	1		5.5	W	40	Top bends both ways to - 3° and - 9° W. } Tops connected by a Ca streak.	
	35			2	W	20		
	18	1	8.5		W	10	Ca.	
	9 42	1	23		W	20		
	8 13		31		W	10	Ca.	
	9 41	5	35.5		W	20		
	40	1.5	41		W	20		
	8 13		49.5		W	10	Ca.	
	9 38	0.5	63.5		W	25		
	35		75		W	10		
							Ca photographs 8h 13m and 8h 32m.	
April 14.	G.N.	10 3	3	38	..	E	75	
		9 30		20		E	10	Ca.
		30		13		E	20	Ca. Top extends to + 11° E,
		30		10		E	15	Ca.

Date and observer.	Hour I S.T.	Base.	Latitude.		Limb.	Height.	Remarks.	
			North	South.				
1910.	H. M.	°	°	°		"		
April 14. —cont'd	G.N.	9 48	1	3.5	..	E	20	Ca prominence extends from + 6° to + 3° E. In Ca it is 50" and 30" high. In Ca it is 15" high and is continued on disc in focculus plate. Double at top In Ca it is 80" high. Slants south. 135" in Ca. Top is connected with the last prominence in Ca. Ca. Top flows to + 58° and + 52° W. Ca. Ca. Faint. Ca photographs 9 ^h 30 ^m and 9 ^h 39 ^m .
		45	2.5	12.5	..	E	80, 40, 40	
	40	2	51.5	..	E	30		
	38	2	75	..	E	10		
	30	3	44	..	W	120, 60		
	10 50	2	12.5	..	W	100 ±		
	50		8	..	W	40		
	15	3	8.5	..	W	30		
	9 30		48.5	..	W	20		
	30	1	53	..	W	35		
	10 8	2	62.5	..	W	20		
	9 30		77	..	W	80		
	April 15.	A.Y.S.	8 20		59.5	..	E		10
20				53.5	..	E	30	
28				25	..	E	15	
23			5		17.5	E	45	
19			1		23.5	E	90	
20					43	E	15	
20					44.5	E	10	
5			0.5		77.5	W	10	
35			3		46	W	60	
33			2	5		W	15	
20				29		W	80	
20			3	60		W	20	
45			1	76.5		W	20	
April 16.	S.S.	8 19	...	53.5	..	E	30	
		9 5		52.5	..	E	15	
		8 19		50.5	..	E	20	
		19		45.5	..	E	10	
		59	1	7	..	E	15	
		58	1		3	E	10	
		58			7	E	15	
		19	2		25	E	20	
		53			27	E	10	
		50			42	E	10	
		35			77.5	E	20	
		23			65.5	W	15	
		20	1		48.5	W	30	
		20	3		45.5	W	25	
		18			24	W	10	
		19			22.5	W	30	
		9 30	2.5	2		W	15	
		24	1	19		W	25	
17	1	40		W	30			
13	2	58.5		W	35			
April 17.	A.Y.S.	8 37	...	88	..	E	10	
		37	1	70.5	..	E	10	
		34		58.5	..	E	25	
		34		52.5	..	E	35	
		32	0.5	44	..	E	20	
		32	2	38	..	E	45	
		20	14	17	..	E	50, 35	
		10		7	..	E	75	
		7	4	5	..	E	40	
		2	1		11	E	10	
		1			27	E	15	
		0			43	E	10	
		7 58			54.5	E	10	
		8 52			60.5	E	15	
		52	1		66.5	W	30	
51	1		62.5	W	15			
50	4		47	W	25			
52			31	W	15			

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.		
			North.	South.					
1910									
April 17. <i>-contd.</i>	A.Y.S.	8 52	.	...	20	W	10	Ca.
		52			19	W	10	Ca.	
		52			16	W	10	Ca.	
		44	22	Equator.			W	40	In Ca, it is 30', 50", and 30' high.
		52		25			W	10	Ca.
		52	0.5	46			W	40	Ca. Faint Top extends both ways to + 44° and + 47° W.
		41		56.5		W	30	Ca photographs 8h 52m and 9h 2m	
April 18.	G.N.	8 19	.	80.5	..	E	15	Ca.	
		19		79.5		E	10	Ca.	
		9 9	5	54.5		E	50	In Ca it extends from + 59° to + 51° and is 45' and 60' high.	
		8 19		41		E	15	Ca.	
		9 6	1	38.5		E	15		
		5		27		E	25		
		8	1	23		E	40		
		0	3	16.5		E	100	Ca streamers from top are 70" and 100" high.	
		8 5		9		E	50		
		45	8.5	8		E	30	70" high in Ca.	
		45	1	5		E	10	See Note.	
		48	1		10	E	10		
		48			12	E	45	20" only in Ca	
		19			15	E	10	Ca.	
		42			28	E	10		
		19			34	E	10	Ca	
		40			48.5	E		No prominence but bright O displaced to red.	
		40			49	E	15		
		32			75.5	E	10		
		30			84.5	W	20		
30			82	W	10				
9 23	2		46	W	20				
8 19			36	W	25	Ca			
19			34	W	25	Ca.			
19			30	W	30	Ca.			
9 16	16		3	W	20, 60	In Ca, it extends from + 8° to - 14° W. and is 15" and 45" high.			
8 19			26	W	10	Ca.			
19			40	W	20	Ca Top bends to + 41° W.			
19			48	W	15	Ca			
19	1		47.5	W	45	Ca. Top slants as far as + 52° W.			
9 13			55.5	W	15	Top bends and meets limb again at + 59° W.			
8 19	2		72.5	W	15	Ca. Ca photographs 8h 19m and 8h 41m.			
April 19.	S.S.	9 2	..	75	..	E	30	Ca.	
		0	5	57		E	50	Top bends southwards as far as + 54° E.	
		8 54		39		E	10		
		52	1	25.5		E	20	Slants to + 29° E. } Connected at base in Ca.	
		51	2	17		E	30		
		9 2	1	8		E	30	Ca.	
		8 49		5		E	15		
		9 2			2	E	10	Ca.	
		8 47			12.5	E	10	30" high, and 3° broad in Ca.	
		44	1		21.5	E	60		
		44	1		27.5	E	40	} Tops connected.	
		42			41	E	10		
		42	1		47.5	E	20		
		40			58	E	10		
		35			74.5	W	30 ±	O slightly displaced to violet.	
		33			66	W	10		
		9 2			52.5	W	30	Ca. Faint.	
		8 30	8		46.5	W	45	Top bends southwards.	
		28			25.5	W	20		
		28			22	W	10		
25	1		15	W	20				
25			12	W	10				
9 2			5	W	10	Ca.			
2	8		16	W	45, 15	Ca. Faint streaks slanting northwards.			

Connected in Ca.

Date and observer.	Hour I.S.T.	Base.	Latitude		Limb.	Height	Remarks
			North	South.			
1910.	H. M	°	°	°		"	
April 19. S.S.	9 12		20	...	W	10] Tops connected, and surmounted by a cloudlet 60" high in Ca. Ca. Ca photographs 9 ^h 2 ^m and 8 ^h 24 ^m .
—contd.	8		44		W	30 ±	
	8		48.5		W	30 ±	
	2		77		W	15	
April 20. A.Y.S.	8 52	0.5	78	.	E	25	Ca. Ca. A faint arch. Ca streaks from top extend to -28° E. No prominence O slightly displaced to red. In Ca it extends from -28° to -30° W. Ca. Ca. Ca. A Ca streak from top extends to +20° W. and +14° W. Ca streaks from top flow to +25° W., 45" high in Ca. In Ca 60" high and top flows and meets limb at +44° W. Ca photographs 9 ^h 32 ^m and 8 ^h 47 ^m .
	32		66.5		E	10	
	40	6	57.5		E	75	
	36		48		E	15	
	35	2	31.5		E	10	
	33	1	24.5		E	10	
	32		8		E	25	
	30	8		21.5	E	50	
	27	0.5		29	E	25	
	24			78	E		
	21	7		51	W	50	
	9 1	4		25	W	45	
	8 32			20	W	20	
	32			16	W	10	
	32			14	W	15	
	59	1.5		10	W	10	
	58	0.5	17		W	30	
	56	1	27.5		W	15	
	56	4	31		W	30	
	54		48.5		W	40 ±	
April 21. G.N	8 45	6	59.5	...	E	90, 20	80" high in Ca.
	40		21		E	10	
	18			14	E	15	Ca.
	37	2		28.5	E	50	Ca streamers from top and base flow to -22° and -31° E.
	35			84	E	25	
	18			66.5	W	10	Ca
	32	1		57	W	35	10" in Ca. Faint in C.
	32	4		51.5	W	80	100" in Ca.
	25	0.5		44.5	W	30	Shows slight displacement to violet. Disappeared by 9 ^h 20 ^m .
	9 16	1		28.5	W	35	20" in Ca. Top bends and meets limb again at -30° W. in Ca.
	15	2		18	W	60	30" high in Ca.
	8 18		16		W	45	Ca. Detached.
	13		21.5		W	45	Slants both ways at top, 6° broad in Ca. } Connected in Ca.
	8		26		W	50	
	5	6	34		W	80	
	9 0	1	47.5		W	65	Top bends and almost meets limb at +46° W.
	8 55	0.5	85		W	15	Ca photographs 8 ^h 18 ^m and 8 ^h 26 ^m .
April 22. S.S.	9 12	...	82.5	..	E	25	Continuous and 80" in Ca. In Ca, there are a number of jets from +53° to +57° E, 15" in height. 4° broad in Ca 10" in Ca. A cloud connected to limb at +19° E. Ca Broken at base. Ca. Top flows to -22° E. Ca. Very faint. Upper part disappeared by 9 ^h 28 ^m .
	10	4	65.5		E	50 ±	
	8		55		E	25	
	4	2	37		E	55	
	0	0.5	29		E	25	
	8 58		19		E	45	
	34		1		E	10	
	52	3		10.5	E	40	
	34			18	E	40	
	49	6		34	E	20	
	40			70.5	W	10	
	34			64.5	W	15	
	38	6		52	W	105	
	30			85	W	25	
	28	2		30.5	W	20	
	28			20.5	W	10	
	26	3		18.5	W	30	

Date and observer.	Hour I.S.T.	Base	Latitude.		Limb.	Height.	Remarks.		
			North.	South.					
1910.									
April 22. —contd.	S.S.	R. M.	°	°		"			
		9 25	..	15		W	15		
			25		20	W	15		
			23	7	31.5	W	50		
			19	2	47	W	50	70" high in Ca. In Ca, there is a faint streak at top flowing southwards	
			8 34		51	W	25	Ca.	
		9 15	2	68	W	10	Ca photographs 8 ^h 34 ^m and 8 ^h 21 ^m .		
April 23.	G.N.	8 16		41	5	E	20	Ca. Faint	
		16		29		E	30	Ca. Faint.	
		16		27		E	35	Ca. Faint. Detached.	
		56		26		E	30	Faint Detached.	
		50		15		E	10		
		45			15	E	10		
		43	1		21	E	40	15" only in Ca.	
		41	1		24	E	35	Do.	
		41	1		29	E	25		
		40			34.5	E	10		
		40	1.5		36	E	30	15" in Ca.	
		40			39.5	E	10		
		40			42	E	10		
		37			63	E	10		
		35	1		72	E	20		
		9 12			62	W	10		
		12			56.5	W	20		
		11	2		54	W	55	30" in Ca at 8 ^h 40 ^m . Upper part not seen in it at 8 ^h 40 ^m , but at 8 ^h 16 ^m , it was 40" high	
		8 16				82	W	25	Ca. Faint.
		9 9	2.5		20	W	45	30" in Ca. An arch.	
5	1		10	W	25	Bright.			
4	1		12	W	10				
3			15.5	W	20				
2	4.5		34	W	75				
0			44	W	15				
0			45	W	15				
0			50	W	25	10" only in Ca.			
8 16			75.5	W	10	Ca. Ca photographs 8 ^h 16 ^m and 8 ^h 40 ^m .			
April 24.	A.Y.S.	8 37		76.5	...	E	10		
		25		40		E	35	Ca. Faint and detached.	
		25		18		E	25	Ca. Faint.	
		27	1		24.5	E	35	Slants to - 22° E. 60" high in Ca.	
		24			38	E	20		
		22	1		46.5	E	10		
		9 9	5		53.5	W	35	60" in Ca.	
		8 25			37.5	W	10	Ca.	
		9 0			30	W	20	Ca streaks flow both ways from top.	
		8 25			25	W	15	Ca.	
		59			21	W	15		
		55	7		12.5	W	40, 25		
		25			32	W	35	Top flows as far as + 35° W.	
		42			43	W	35		
42	1		43	W	35	Connected in Ca.			
42			49	W	35				
39			80.5	W	Low.	C slightly displaced to red. Ca photographs 8 ^h 25 ^m and 9 ^h 0 ^m .			
April 25	S.S.	9 10		75.5	...	E	10		
		6		36.5		E	15		
		4	1		32.5	E	35		
		1	1.5		23	E	55		
		8 57	2		21	E	20	In Ca, it is narrow at base, is 55" high and slant+ north.	
		27			31	E	10	Ca. Faint.	
		55	1		37.5	E	25	10" in Ca	
		53	1		43	E	20		
		49			31	W	10		
		45	2.5		53	W	55	Top slants as far as - 50° W.	
36	2		38	W	Low.				

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.			
			North.	South.						
1910.	H. M.	°	°	°						
April 26 — <i>conid.</i>	S.S.	8 36	...		34.5	W	10	40' in Ca. Metallic. D ₁ , D ₂ , b ₁ , b ₂ , bright. Slants southwards. See Note 1. See Note 2. Ca photographs 8 ^h 27 ^m and 8 ^h 48 ^m .		
		8 32	3		29.5	W	60			
					22.5	W	70			
	9 30	1		13	W	10				
				10	W	25				
		1	7		W	20				
		8	15		W	35				
			28.5		W	20				
		6	46		W	30				
			52		W	10				
		2.5	68.5		W	110				
	April 26.	A.Y.S.	10 46	1	84.5		E		30 ±	Faint in Ca. Two prominences close together. Faint in Ca. Faint in Ca. See Note 1. See Note 3. } See Note 2. An arch. An arch. Ca photographs 10 ^h 36 ^m and 10 ^h 15 ^m .
			10 41	2	83		E		10	
					28		E		15	
8 51			2	25.5		E	30			
				24.5		E	30			
10 38			1	19.5		E	30			
				10.5		E	25			
					15	E	10			
					20.5	E	10			
					65.5	E	10			
			1	82.5		E	25			
10 24			2	52		W	80			
			4	40		W	45			
			2	31		W	40			
				26		W	10			
			9.5	3	2.5	W	45			
			1			W	25			
9 59			7	9.5		W	30			
			0.5	20		W	10			
				29.5		W	10			
10 48	1	83.5		W	25					
April 27.	G.N.	9 0	1	81.5		E	15	} The Ca prominence extends from + 58° to + 56° E. Two connected prominences. In Ca, there were three prominences close together. 70' in Ca. Ca. Ca. Ca. Ca. 10" at 8 ^h 24 ^m , 25" at 8 ^h 39 ^m . Ca. Faint. Ca. Faint. Seen only at 8 ^h 39 ^m . Top slants north. } See Note. Faint. Ca photographs 8 ^h 24 ^m and 8 ^h 39 ^m .		
		8 52	1	54.5		E	40			
				53		E	30			
			5.5	44.5		E	50			
			3	19.5		E	90 ±			
				15.5		E	20			
				18		E	15			
				11		E	15			
			1	9		E	10			
			2		5	E	80			
					20	E	35			
					49	E	10			
					57.5	E	30			
			2		70.5	E	10, 15			
					81.5	E	15			
		9 17	5		50.5	W	80			
					38.5	W	15			
			20.5		8	W	70, 65			
			1	5.5		W	80			
			10	12		W	50			
8 24		47		W	15					
9 1		79		W	10					
		85		W	15					
April 28.	S.S.	10 12	3	56.5		E	30	Slants to south. 4° broad in Ca. Faint. 65' in Ca. } See Note 1. Faint. See Note 2.		
			1	46.5		E	60			
			1	38.5		E	50			
				25		E	20			
		9 42		17.5		E	40			
				8.5		E	20			
			6.5	2		E	90			
			4		47.5	E	80			

Date and observer.	Hour I.S.T.	Base	Latitude.		Lamb.	Height.	Remarks.	
			North.	South.				
1910.	H. M.	°	°	°		"		
April 28. —contd.	S.S.	9 10	0.5	...	81	W	10	
		8 59	0.5		76.5	W	50	Ca.
		9 0			59.5	W	10	
		8 59	2		53	W	15	
		58			43	W	10	Faint and 35" high at 9 ^h 5m.
		59			37	W	10	Ca.
		56			30.5	W	15	
		53	16		15	W	80	
		59		15		W	10	Ca. Faint.
		59		47		W	25	Ca. Faint. See Note 3.
	April 29.	A.Y.S.	8 45	2	54	...	E	50	Broader at top. A Ca streak from top flows to + 47.5 E.
		36		40		E	80	Ca.
		38		38		E	80	Detached.
		36	2	36		E	30	Ca; connected with the last.
		36	2	25		E	25	Ca.
		36		22.5		E	30±	Faint.
		32		17		E	20±	Faint. 2° broad in Ca.
		32	2	13		E	20	} Connected and 65" high in Ca.
		32		8		E	35	
		25	8	4.5		E	20	See Note.
		25	5		0.5	E	15	} Connected in Ca.
		23	1		5.5	E	15	
		19	4		4.7	E	35	
		36	1		59.5	W	50	Ca; slants southwards.
		36			56	W	50	Ca. do.
		15	2		53	W	20	
		52	12		19	W	60	
		49			2	W	15	Faint in Ca.
		36		5.5		W	15	Ca.
		36	3	29.5		W	80	Ca.
		36		37		W	20	Ca.
	48	1	42.5		W	30		
	46		59.5		W	15		
	36		32		W	50	Ca. Ca photographs 8 ^h 36m and 8 ^h 18m.	
April 30.	S.S.	9 34	...	60.5	...	E	20	
		32		49		E	80 ±	A detached cloud, 110" high in Ca; connected to limb in C
		28		42.5		E	35	} Connected and 85" in Ca.
		24	6	37		E	60	
		20		26		E	90	A slanting cloud' connected to limb at 3 points. 130" in Ca.
		20		19.5		E	20	} Connected in Ca.
		15		12.5		E	30	
		15		2	8	E	15	
		15				E	15	
		8			13	E	10	
		6	1		22	E	10	
		0	4		46	E	45	
		8 18			57	E	10	Ca.
		52			63	E	15	Faint.
		49			47	W	10	
		10 0	4		23	W	50	6° broad in Ca.
		8 18			4	W	Low.	Ca.
		9 52	1	0.5		W	20	
		50	2	8.5		W	20	
		50	10	11		W	20	
		50		14.5		W	25	Three prominences. A streamer from top flows to + 8° W.
	45		26.5		W	25	Fading rapidly. Nothing here at 9 ^h 47 ^m . Nothing here in Ca.	
	40		37		W	20	} Connected in Ca.	
	40	5	41.5		W	25		
	8 18	1	45.5		W	25	Ca. Top meets the last.	
	9 38	1	63		W	15	Ca photographs 8 ^h 18 ^m and 8 ^h 31 ^m .	

Date and observer.	Hour I.S.T.	Base.	Latitude.		Lamb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		'	
May 1. A.Y.S.	9 10	..	66.5	..	E	10	
	9		56.5		E	25	Almost detached.
	6	1	50.5		E	30	Bright. D ₁ , D ₂ , b ₁ , b ₂ , b ₃ , and b ₄ were bright.
	2		43		E	10	
	7		40.5		E	70	Ca. Top flows eastwards.
	2		39		E	20	
	2	4	36		E	20, 50	
	8 49	2	29.5		E	70	Top bends and almost meets the next prominence. 110' high in Ca.
	45		23		E	10	
	45		19		E	40	A detached streak. A Ca streak from top flows to + 22° E.
	43		14		E	20	
	37		7.5		E	10	
	37		2		E	20	
	34	2		11	E	25	Bright. D ₁ , D ₂ , b ₁ , b ₂ , b ₃ , b ₄ , 5310.8, and 4924.1 were bright. 10' high in Ca.
	30			31.5	E	15	
	26	4		46	E	45	30' high in Ca.
	9) 33	2		56.5	W	30	Top slants to - 60° W.
	30	1		31	W	20	
	29	1		20.5	W	20	
	7	1		1	W	20	Ca.
	27	2	29		W	20	
	18	4	40		W	65	Bright.
	14	2.5	54		W	25	
	12		59		W	25	Ca photographs 8h 7m and 8h 17m.
May 2. S.S.	8 20	...	74.5	...	E	25	Ca. Seen only at 8h 20m.
	9 43	2	57		E	10	25' high in Ca.
	42	9	48		E	70	See Note 1.
	36	3	37.5		E	70	120' in Ca.
	8 47	10	29		E	60	Portions were seen in C.
	9 23		11		E	15	Detached.
	8 47		4.5		E	10	Ca
	9 24	4		5	E	20	
	21	2		21	E	45	See Note 2.
	8 47			31	E	15	Ca. Faint.
	9 11	6		42.5	E	25	3° broad in Ca.
	6			54	E	20	Changing slightly. 10' in Ca.
	2			83.5	E	20	
	8 55			60.5	W	10	
	54			55	W	10	
	10 10			47	W	25	
	8 47			38	W	10	Ca. Faint.
	47			30	W	10	Ca. Faint.
	10 6	1		15.5	W	15	Very faint.
	8 47			7	W	20	Ca.
	10 6		4.5		W	45	
	5		11		W	25	Very faint. 2° broad in Ca. } Connected and 35° in Ca.
	8 47	2	20.5		W	40	Ca.
	9 58	6	29		W	25	See Note 3.
	58	2	43		W	40	
	58		37		W	40	Top connected with the last by a streak.
	54	4	61.5		W	35	A Ca streak from top flows to + 36° W.
	54		75.5		W	10	Ca photographs 8h 47m and 8h 20m.
May 3. A.Y.S.	9 30	1.5	86	...	E	20	
	27		74.5		E	30	
	0		69.5		E	15	Ca.
	25		66.5		E	25	
	17		58		E	10	
	14		52		E	15	Seen only at 8h 20m in Ca.
	14	7	46.5		E	70 ±	A streak from top bends to + 52° E. The top of the streak was faint. 45' high in Ca.
	10		41		E	10	
	10		38		E	10	
	8		34		E	15	

Date and observer.	Hour L.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	n. m.	"	"	"	"	"	
May 3. A.Y.S.	0 8	...	31	..	E	10	
—contd.	7	1	20°5		E	10	
	8	1	28		E	10	
	8		22		E	20	
	0		18°5		E	15	
	8 55	6	16		E	15	Ca. Only a small prominence at + 14°5 E. was seen in Ca.
	55	7	8°5		E	20 $\frac{1}{2}$ and 40	See Note.
	51	0°5	2		E	20	
	40	12		6	E	45	
	33	7		20°5	E	45	
	28			37	E	10	
	23	12		40	E	30	Connected with the last. 8° broad, and 15" high in Ca.
	0 0			53	E	10	Ca.
	8 20			77°5	E	25	10" in Ca, and seen only at 8h 20m in it.
	18			81	E	25	Seen only at 8h 20m in Ca.
	18			85	E	20	
	16			81°5	W	10	Seen only at 8h 20m in Ca.
	0 0			59	W	15	Ca.
	10 22			51	W	15	
	0 0			40	W	10	Ca.
	10 21	1		32°5	W	20	
	20			27	W	10	
	20			25	W	10	
	16	8		19°5	W	25	
	10	1	6°5		W	35	
	10	2	9		W	45	
	7	1	18°5		W	45	Top connected by a streak.
	0 57	2	25		W	10	
	57	4	30°5		W	50	A streak from top flows to + 24° W. Changing. Faint.
	44	2	42		W	10	
	42	7	57°5		W	30	
	32		70°5		W	10	
	30	2	86 8		W	10	Faint. Detached and 20" high in Ca. Ca photographs 8h 0m and 8h 20m.
May 4. H.S.	0 31	0°5	53	...	E	40	In Ca, it consists of 3 prominences, 60", 30", and 30" high.
	28		45		E	45	Connected with the last in Ca.
	8 55		42		E	30	Ca. Detached.
	55		21		E	10	Ca.
	0 20	2	10		E	10	
	22			4	E	Low. 25	20" high and faint in Ca.
	22			0	E	25	
	10	3		24°5	E	30	
	18			30°5	E	15	Faint.
	18			41°5	E	15	
	18			40	E	15	
	8 55			53°5	E	45	Ca. Slants to - 40° E.
	0 13			56	E	20	
	12			65	E	10	
	12			68	E	15	
	10			77	E	15	
	10			81°5	E	Low. 10	10" in Ca.
	8			86	W	10	
	8 55			84	W	10	Ca.
	55			53°5	W	20	Ca.
	0 0			47°5	W	10	
	8 53			43°5	W	10	Ca.
	58			40°5	W	10	
	40	11		25°5	W	30, 40	
	35	6	10		W	30	Ca. An arch. The stem at the northern end was visible in C.
	0 32	8	26		W	60	Top flows to + 42° W.
	42	5	57°5		W	60	Continuous and 30" high in Ca.
	37		72		W	10	
	37		79°5		W	10	Ca photographs 8h 55m and 8h 41m.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
May 5. A.Y.S.	9 2	..	84.5	...	E	10	Ca.
	17	2	73.5		E	25	Base extends to + 80° E in Ca. 15" at 9h 2m, and 35" at 8h 31m.
	16	2	50.5		E	15	7° broad and 40" high in Ca.
	2	2	41		E	15	Ca.
	13	1	34		E	65	Top bends and meets limb at + 31° 5 E.
	11		29		E	10	
	2		20.5		E	10	Ca.
	2		4		E	10	Ca.
	8 33			3	E	15	See Note.
	9 2			9.5	E	10	Ca.
	8 26	2		14	E	25	A streak from the base meets limb at - 20° E.
	21			41	E	15	Faint.
	21			48	E	25	10" in Ca.
	19	6		54	E	25, 10	Three prominences. Continuous and 10" high in Ca.
	16	1		70	E	20 ±	Faint
	9 48			81.5	E	10	
	8 13	1		84.5	W	10	
	13	1		79	W	10	
	9 47			67	W	10	
	47			57	W	10	
	46			47	W	10	
	2			43	W	15	Ca.
	44	3		30.5	W	30	
	41			18	W	10	
	2	3		7.5	W	35	Ca. A slanting arch. Only two detached dots at 8h 16m.
	40		8		W	15	
	36		31		W	Low	A Ca. streak from this meets the top of the next prominence.
36	10	39		W	30		
21	4	58		W	40		
21		62		W	10	Ca photographs 9h 2m and 8h 16m.	
May 6. G.N.	10 25	1.5	31	...	E	25	
	8 20			19	E	10	Ca.
	20			21	E	20	Ca. Weather bad. Ca photograph (flocculus) 8h 29m.
May 7. S.S.	8 11	...	72	...	E	30	Ca.
	11		67		E	25	Ca.
	11		62		E	30	Ca.
	11		34		E	10	Ca.
	11	11	23.5		E	50	Ca.
	9 34	2	12		E	30	
	31	1		2.5	E	30	Connected and continuous in Ca.
	31	7		8.5	E	35, 20, 15	Four prominences close together.
	20	3		18	E	20	
	8 11			40	E	15	Ca.
	6 25			65	E	15	
	21			36	W	10	
	8 11	2		51	W	30	Ca.
	9 7	2		36	W	35	
	4			23	W	20	
46		1		W	20	Seeing poor. Ca photographs 8h 11m and 9h 40m.	
May 8. S.S.	9 0	...	68.5	...	E	15	Ca.
	0	2	50		E	60	Ca. Slants eastwards. A portion of this was seen in C.
	30	12	15		E	60	
	27	3		8.5	E	35	
	0	2		49	E	30	Ca. Slants southwards.
	23	2		50	E	15	
	10	2		38	W	25	
	0	2		25	W	50	Ca. Faint.
	0		21.5		W	30	Ca.
	10 5		40		W	20	Faint.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	n. m.	°	°	°		'	
May 8.	S.S.	...	45	..	W	15	
—contd.			86.5		W	10	Seeing poor. Ca photographs 9 ^h 0 ^m and 10 ^h 44 ^m .
May 9.	A.Y.S.	1	71	...	E	30	Ca.
		0.5	68		E	10	
		1	58		E	10	
			56.5		E	40 ±	Almost detached.
			44		E	25	Ca. Slants to + 46° E.
		0.5	24.5		E	20	Faint.
		3	21.5		E	30	} Tops connected
		1.5	17		E	30	
		1.5	15		E	30	
		0.5	3		E	10	
		0.5		11.5	E	15	
		4.5		28	E	80	At 10 ^h 1 ^m top bends and meets limb at - 30° E.
				88	E	10	
				41	E	45	Ca. Slants to - 46° E.
		1		49.5	E	70	See Note.
		2		54	E	30	
		0.5		68	E	10	Ca slightly displaced to red at base. Not seen at 8 ^h 33 ^m .
				72	E	15 ±	
		2		80.5	E	15	Ca.
		1		85	W	20	
				82.5	W	10	
		1		72.5	W	25	
				67	W	10	
		1		65.5	W	10	Ca. } Connected in Ca.
				59	W	10	Ca.
		1		42	W	20	
		1		39.5	W	25	
		1		28	W	20	
			12		W	10	
			51		W	10	
			54		W	10	Ca.
		1	62.5		W	15	Ca. Ca photograph 8 ^h 22 ^m .
May 10.	G.N.	..	85	...	E	10	Ca.
			83.5		E	10	Ca.
		1	69		E	15	
			46		E	25	Ca.
			44		E	15	Ca.
			48		E	20	Ca.
			39.5		E	Low.	Slants eastwards, and 35" high in Ca.
		1	31.5		E	20	
			30		E	35	Ca. Slants and meets the top of the prominence at + 33° E.
			27.5		E	25	
		2	25		E	25	
		1	0.5		E	35	Slants southwards in Ca to - 5° E.
		0.5		2.5	E	40	
				40	E	65	Ca. A streak slanting to - 46° E.
		1		49.5	E	35	Ca. Slants to - 47° E.
		3		54.5	E	25	
		1		75	E	15	
				81.5	E	10	Ca.
				42	W	25	
		2		87	W	30	Ca.
				81	W	25	
			10.5		W	15	Ca.
			24		W	15	Ca.
May 11.	S.S.	...	79.5	..	E	10	Ca photographs 8 ^h 53 ^m and 8 ^h 40 ^m .
		2.5	83		E	45	Ca.
			31.5		E	30	
			20.5		E	40	2° broad and a streak from top flows to + 18° E in Ca.
			8		E	25	Ca.
		5		2.5	E	40	Ca.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Lumb.	Height.	Remarks.	
			North.	South.				
1910.	H. M.	°	°	°		"		
May 11. —contd.	S.S.							
	8 50	..	...	7	E	35	Detached. Connected with the top of the last.	
	50	1		9.5	E	15		
	46	3		19.5	E	15		
	25	5		45.5	E	30	Ca.	
	38			32	W	10		
	33	1.5		41	W	25		
	9 15			17	W	50	Slants southwards In Ca it is 2° broad and 40' high	
	8 25	4	4		W	90	Ca An arch. } Connected at top and base.	
	25	18	12.5		W	90	Ca.	
	9 10		20		W	35		
	8 25	5	34.5		W	25	Ca. A small portion of this 10" high was seen at +37° W. in O.	
	25		40.5		W	10	Ca.	
	25		44		W	130	Ca. A detached jet.	
	9 5		48		W	10	Surmounted in Ca by a detached jet 95" high.	
8 25		77		W	25	Ca.		
						Ca photographs 8 ^h 25 ^m and 8 ^h 43 ^m .		
May 12.	A.Y.S.							
		9 13	1.5	46.5	...	E	20	Ca.
		13	1	40.5		E	35	Ca.
		16		38.5		E	20	
		13		36		E	35	Ca. A jet.
		15		33		E	10	
		13		28.5		E	40	Ca. A detached cloud extending from +27° to +30° E.
		13		27		E	25	Ca. Slants to +24° E.
		13	1		4.5	E	25	
		11			10	E	10	
		8 56	1		18	E	20	
		56	1.5		22	E	20	
		9 3	4		28	E	30	} See Note.
		42			43.5	E	10	
		40			56	E	20	
		13	1		57.5	E	15	Ca.
		8 39	1		75.5	E	20	Only a small, low prominence here at 9 ^h 38 ^m .
		9 13	1		36.5	W	20	Ca.
		37			22.5	W	10	
		13	1		20	W	45	Ca. Slants southwards.
13			19	W	50	Ca. A detached cloudlet		
13			0.5	W	55	Ca. A detached slanting streak.		
13		1.5		W	60	Ca. A slanting streak.		
26		3		W	10	O slightly displaced to red.		
34	2	8		W	20	Slants northwards. A Ca streak from top 45" high flows to +14.5 W		
13	1	32.5		W	30	Ca. Top flows to +27° W.		
24	1	35.5		W	60			
26		39.5		W	50	A detached cloud 90" high in Ca.		
27	1	47		W	10	Seeing poor.		
						Ca photograph 9 ^h 13 ^m		
May 13.	G.N.							
		9 7	...	59	...	E	15	
		8 27	1	48		E	10	Ca.
		27	1	40.5		E	15	Ca.
		9 5		37.5		E	30	
		8 27	2	30		E	25	Ca.
		27		24		E	10	Ca.
		58	3.5	4		E	45	25" high in Ca.
		9 0			7.5	E		No prominence. Chromosphere shows displacement to red in O for 8.0 Å.
		8 52			11.5	E	50	In Ca, it is a hook slanting to - 8° E. and 70" in height.
		52	1	14.5		E	15	Shows slight displacement to red.
		49	5	24		E	35	
		27	1	33		W	15	Ca.
		9 20	4	46		W	40, 55	35" only in Ca.
		8 27	1	20.5		W	35	Ca. Slants southwards.
27	1	1.5		W	10	Ca.		
27		4		W	25	Ca. Slants westwards.		
9 15	2.5	12.5		W	60	7" broad and 45" in Ca.		

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks	
			North.	South.				
1910.	H. M.	°	°	°		"		
May 13 —contd.	G.N.	...	38	...	W	30	Ca. Slants westwards.	
		1	47.5		W	30	3° broad. Top flows to +40° W. and 45'' high in Ca. Faint in C. Ca. photographs 8h 27m and 9h 36m.	
May 14.	S.S.	...	87.5		—	30		
					E	10		
					E	15		
					E	15	Ca.	
					E	30	Ca.	
					E	40	Top broader and flows as far as +4° E.	
					E	20		
			1.5		28	E	Low.	
					32.5	E	30	Ca.
					34	E	15	
					39.5	E	10	Ca.
					69	E	15	
				1	78.5	E	10	Ca.
				1.5	78.5	E	10	Ca.
					77	W	25	Ca.
			8 55	1	70.5	W	15	Ca.
			9 1	3	66.5	W	10	Ca.
			8 52		64	W	15	
			40	3	47.5	W	35	
			45	1	37.5	W	35	Very faint and 20'' high at 8h 50m. } Connected, and
			43	1	34.5	W	25	10'' in Ca.
			42		28	W	Low.	See Note 1.
			40		25.5	W	10	
			40		22	W	10	
			9 31	2	2	W	15	
			30	3	13.5	W	25, 30	See Note 2.
			29		24.5	W	50	85'' high in Ca.
	1	1	26.5	W	15	Ca.		
	28	2	31	W	35			
	28		42	W	10			
	1		45	W	85	Ca. A cloud extending from +41° to +47° W. and connected to limb by a stem at +45° W.		
	25	2	54	W	15			
	23		74	W	20			
	21		83.5	W	40	Ca. photographs 9h 1m and 8h 44m.		
May 15.	A.Y.S.	...	79.5	..	W	..	See Note 1.	
			55.5		E	10		
			49.5		E	30	Top flows to +46° E.	
			37		E	10	Ca.	
			27	7	27	E	60	A Ca streamer 70'' high meets limb at +8° E. 35'' high in Ca.
			20		19	E	75 ±	Detached cloudlet.
			18		11	E	10	
			17		1.5	E	10	
			6 53		11	E	20	
			52	1.5	19	E	10	
			8 3	1	45.5	E	15	Ca.
			6 46		82.5	E	10	
			45		87	W	10	
			8 3	1	73.5	W	15	Ca.
			10		69	W	10	
			9		58.5	W	10	
			8	4	47	W	40	
			5	2	37	W	10	
			5		34	W	15	
			3		22	W	20	Faint.
			3		19	W	15	Ca.
	2	1	16	W	30	Top bends to -14° W.		
	0		24	W	55	Detached.		
	7 59	2	28	W	10			
	59		27.5	W	15			
	58	4	32	W	70, 50			
	50	1	45.5	W	80	See Note 2.		
	42		56	W	10			
	40	3	60.5	W	40, 25	See Note 3. } Connected. 60'' high in Ca.		

Date and observer.	Hour I.S.T	Base.	Latitude.		Lamb.	Height.	Remarks.
			North	South.			
1910.	H. M.	"	"	"		"	
May 15. A.Y.S. -contd.	7 37	...	70	...	W	20	Ca photographs 8 ^h 3 ^m and 8 ^h 47 ^m .
May 16. G.N.	9 23	2	57		E	20	<p>See Note. } Connected. In Ca the prominence extends from + 48° to + 59° E, and is changing slightly.</p> <p>Streaks extend from top northwards.</p> <p>Ca. Part seen in O.</p> <p>30° in Ca. A streak from top meets the last prominence.</p> <p>Ca. Slightly different at 8^h 43^m.</p> <p>Ca. photographs 9^h 1^m, 8^h 43^m, and 8^h 57^m.</p>
	20	5	44.5		E	70	
	20	2	41.5		E	110	
	0	5	26		E	90	
	1		21		E	30	
	1	2	3		E	20	
	1	0		3	E	15	
	8 57	9		18.5	E	15, 30	
	54			32	E	35	
	9 1			38.5	E	10	
	1	0		44	E	10	
	8 52	6		85.5	E	30	
	50	6		47.5	W	45	
	9 40	3		19	W	50	
	40			13	W	25	
	1	7.5		6	W	10	
	1	15	13		W	90	
	1	5	26		W	40	
	1		31		W	15	
	80	4	51		W	25, 45	
	27		68		W	15	
	20		78		W	20	
	May 17. S.S.	8 8	1	83	...	E		20	Ca.
8		2	60		E	15	Ca.
9 10		3	46.5		E	35	50° in Ca.
8 8		4	32		E	60	The main part consists of small jets with a slanting streak in the middle.
9 7		7	24.5		E	40	Ca.
8 8			15		E	10	Ca.
8			14		E	15	Ca.
9 5			12.5		E	15	Ca.
8 8			11		E	15	Ca.
8 8				5.5	E	10	Ca.
9 0		10		18	E	90	Ca.
8 8				28	E	10	Ca.
58				32	E	15	Ca.
56				61	E	15	Ca.
54		1		80.5	E	15	Ca.
8				83.5	E	10	Ca.
9 47		1		86	E	Low.	15" high in Ca
45				68	W	20	55" high in Ca.
40		4		48.5	W	50	7" broad in Ca.
38		2		26	W	25	} Connected in Ca
38				15	W	10	
8 8		8		13	W	10	Ca.
9 38				11.5	W	30	Ca.
8 8			9	W	10	Ca.	
8 8		15.5		W	20	Ca.	
9 20	2	20		W	40	Ca.	
8 8		28		W	15	Ca.	
9 20	6	53		W	60	Top flows to + 39° W.	
23	3	62.5		W	15	Ca.	
8 8		68.5		W	20	Ca.	
8		84.5		W	50	Ca. } Jets. Seen only at 8 ^h 8 ^m .	
8		85.5		W	55	Ca.	
9 18		87.5		W	20	Ca photographs 8 ^h 8 ^m and 8 ^h 27 ^m .	
May 18. A.Y.S.	8 56	...	81.5	...	E	10	Ca.
	9 11	8	56.5		E	35	Ca.
	8 56		50.5		E	10	Ca.
	9 7	2	48		E	35	} Connected in Ca.
	7	4	42		E	35	
8 59	16.5	29		E	50	Ca. Faint.	
50		14		E	20		

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
May 18. A.Y.S.	8 58	.	2	.	E	35	Ca. Detached.
<i>—contd.</i>	56	3		10.5	E	15	Ca.
	55			13	E	15	
	38	2		19	E	25	See Note.
	35	1		22.5	E	25	Two jets close together.
	56			28.5	E	10	Ca.
	56			32.5	E	25	Ca.
	56	4		41	E	10	Ca
	32			44	E	10	
	32			48	E	15	
	56			54.5	E	10	Ca.
	30			82	W	10	80' in Ca.
	56			81.5	W	15	Ca.
	25			68	W	15	
	28	4.5		46	W	45	
	56			23	W	10	Ca.
	56			12.5	W	20	Ca.
	9 26	1	19.5		W	15	
	8 56		27		W	10	Ca.
	9 25	2	46		W	25	A small portion of this, 10" high, was seen in C.
	8 56		50		W	60	Ca. Top widens both ways to + 48° and + 57° W.
	9 18	2	59.5		W	35	
	8 56		70		W	30	Ca.
	9 14		88		W	15	Two jets. Seen only at 9 ^h 12 ^m in Ca Ca photographs 8 ^h 56 ^m and 9 ^h 12 ^m .
May 19. G.N.	13 48	..	88.5	.	E	25	
	14 9	3	56.5	.	E	35	1° broad in Ca.
	11 59		44		E	30	Ca.
	59		41		E	40	Ca.
	14 5	2		35	E	25	
	13 59	5		17.5	W	50	
	56	2	12		W	30	
	52	1	55.5		W	60 ±	Two jets connected at top. Not connected, and 35" high in Ca.
	50		86.5		W	30	Ca photograph (foculus, poor) 11 ^h 59 ^m .
May 20. A.Y.S.	9 58	...	76	...	E	10	
	58		74		E	10	
	56	3	67.5		E	30	
	9		52		E	10	
	9	4	44		E	60	
	6	1	28.5		E	25 ±	Faint.
	3	0.5	24.5		E	10	
	3	1	21.5		E	20	
	1	1	17.5		E	10	
	0			17.5	E	15	
	8 59	5		32.5	E	45	
	55			71	E	25	
	54			87	E	10	
	54	1		85.5	W	10	
	10 18	1		69	W	10 ±	Faint.
	17			51.5	W	20	
	17			50	W	20	
	33			35	W	15	Ca.
	18			32.5	W	10	
	15	3		19	W	10	
	14			14	W	15	
	7	10	12		W	55	Top flows to + 4° W.
	4	1	18.5		W	15	
	1		55.5		W	55	
	0		58.5		W	20	Ca photograph 10 ^h 30 ^m . (Imperfect.)
May 21. S.S.	8 57	...	78	...	E	10	Ca.
	57		77		E	15	Ca.
	9 13		69		E	20	Faint.
	8 57	2	63		E	15	Ca. Three jets close together.
	9 12		61.5		E	10	
	11	4	59		E	75	55" high in Ca.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
May 21. S.S.	9 9	3	46.5	..	E	55	35" high in Ca.
—contd.	4		30		E	10	A number of short jets close together.
	8 57		24		E	15	Ca.
	9 3		23		E	10	
	8 57		22		E	15	Ca.
	57			4	E	15	Ca.
	59			9	E	10	
	56	9	34.5		E	60	3 prominences with tops connected. More continuous in Ca.
	53			47	E	10	
	50			53	E	15	
	57			67	E	35	Ca. A slanting streak.
	48			69.5	E	10	
	44			85.5	E	20	
	42			71	W	10	
	57			44	W	15	Ca.
	57			42	W	15	Ca.
	57			30	W	25	Ca. A slanting streak.
	9 32	2		23	W	15	
	30			18	W	40	
	30	2		14	W	70	Connected, and more continuous in Ca.
	27	1		8.5	W	80	Slants to - 9° W.
	25	20	16		W	40, 70, 50	Three connected prominences. 45" high in Ca.
	8 57		35		W	15	Ca.
	57		43		W	15	Ca.
	57		44		W	15	Ca.
	9 19	1	52.5		W	55	Faint.
	17		60		W	15	
	14	1	87.5		W	15	
May 22. A.Y.S.	9 4	2	87.5	...	E	10	Through thin clouds. Ca. photographs 8 ^h 36 ^m and 8 ^h 57 ^m .
	3		81		E	20	Faint.
	8 53		75		E	10	Ca.
	53		73		E	10	Ca.
	9 1		71		E	15	
	0		60		E	10	
	8 59	3	47.5		E	45	
	56	1	36.5		E	10	
	55	1	28.5		E	10	
	53	1	21.5		E	10	Ca.
	54		20		E	15	
	50			14	E	10	
	48			27.5	E	10	
	48	4		34	E	35	There is a low elevation in C from the base of this to - 38° E.
	53			66.5	E	25	Ca.
	40			75	E	10	
	39	1		87	W	25	
	9 36			51	W	15	
	8 53	0.5		38	W	10	Ca.
	9 35	0.5		35	W	20	
	28	14		26	W	60	Broken at base in Ca.
	26	2		15	W	60	
	22	1		8	W	20	
	17	12	18		W	35	
	8 53		28		W	30	Ca.
	9 12	1	42		W	30	Faint.
	10	2	48		W	15	Faint at top.
	8 53	2	61		W	10	Ca.
	53		66		W	20	Ca.
	58		69		W	10	Ca. photographs 8 ^h 53 ^m and 8 ^h 28 ^m .
May 23. G.N.	8 24		76	..	E	10	Ca.
	51		70		E	15	
	50	1	58		E	45	15" in Ca.
	24		44		E	25	Ca. Faint.
	24	1		8.5	E	30	Ca. Seen only at 8 ^h 24 ^m .
	49	4		9	E	55	
	45			29.5	E	15	
	44			32.5	E	60	A detached cloud.

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
May 23. —contd.	G.N.		...	42	E	50	6° broad in Ca. At 9 ^h 11 ^m , this was connected by a Ca streak to the last cloud.
	37			55	E	30	
	24			73	E	10	Ca.
	9 6	2		59	W	40	15" high in Ca.
	8 24			41	W	25	Ca faint.
	9 4	5.5		22	W	45	Top flows and meets limb in Ca at - 30° W.
	8 57			10.5	W		No prominence. Shows displacement to red for about 1.5 Å.
	57	10		3	W	60	} Connected by a Ca streak at top.
	53	1	10.5		W	60	
	50		19		W	15	
	56	9	27.5		W	50	
							Three connected prominences. Ca photographs 8 ^h 24 ^m and 9 ^h 11 ^m .
May 24.	S.S.		83	..	E	10	Ca.
	42		70.5		E	20	Ca, faint.
	9 12	2	65		E	10	
	10	2	55.5		E	30	
	8 42		40		E	10	Ca.
	42		33		E	60	Ca. The stem, only 15" high, was seen in C.
	9 0		21		E	10	Surmounted in Ca by a detached cloud 30' high.
	8 58	4		10	E	40	} Connected at base.
	58	3		14.5	E	25	
	58	2		20	E	25	
	53			36	E	10	
	50	3.5		45.5	E	85	Slants to - 38° E.
	47			60	E	10	Top flows eastwards.
	46			62	E	20	
	46			68	E	20	
	46			72	E	10	
	42			74	E	15	
	39			88	E	15	
	42			82	W	10	Ca.
	42			71	W	15	Ca.
	42	1		63.5	W	30	Ca.
	10 4	4		55	W	25	
	0			40	W	50	
	9 59	1		18.5	W	15	
	50	1.5		11	W	15	See Note 1.
	8 42	1		8.5	W	10	Ca.
	9 48	3		2.5	W	50	Top flows to - 10° W.
	48	3	1.5		W	60	} See Note 2.
	48	2	10		W	50	
	48	1	14.5		W	50	
	41	3	31.5		W	60	
	8 42		36		W	25	Ca
	9 32	1.5	61		W	15	
	27		68		W	10	
							See Note 3
May 25.	A.Y.S.		58.5	..	E	45	
	42		20		E	10	
	9 28		18		E	15	Ca.
	8 40	2	14		E	10	
	40	1.5	12		E	10	
	39		4		E	10	
	38		Equator.		E	30	Slants southwards.
	38	1		4.5	E	25	} A small prominence 15" high was seen in Ca at - 2° 5 E.
	31			7.5	E	20	
	30	5		12.5	E	25	40" high in Ca
	9 28	5		25.5	E	35	Ca.
	8 25	3		42.5	E	50	
	23			52.5	E	10	
	9 28			69.5	E	10	Ca.
	56	3		56.5	W	30	
	55	1.5		48.5	W	30	In Ca there was a very faint streak from top 50" high.

Date and observer.	Hour I.S.T	Base	Latitude.		Limb.	Height.	Remarks.	
			North.	South				
1910	H. M.	°	"	"		"		
May 25. -contd.	A.Y.S	9 50	4	..	21	W	35	} See Note. Top faint Ca Faint
		35	16		3	W	70,100	
		19	3	11 5		W	30	
		19	8	19		W	60	
		0	4	32		W	40	
		28		35		W	30	
		8 59	1	60		W	15	
57		75		W	15			
May 26.	G.N.	8 28	..	88.5	..	E	45	} Connected in Ca. Ca. photographs 9 ^h 28 ^m , 6 ^h 8 ^m , 8 ^h 56 ^m , and 11 ^h 0 ^m . A small streak from top meets limb at +61° E. Ca. Ca. Ca. Ca. Slants to +10° E 10" high in Ca. Ca. Ca. Ca. Ca. Ca. Ca. Faint. Ca. Seen only at 9 ^h 12 ^m . Detached. Connected to limb in Ca. Ca. Very faint Stronger at 9 ^h 12 ^m . Ca. Do. do Ca. A portion of this 25" high was seen in C. Ca. 2" broad in Ca. Ca. Faint.
		9 6	2	58		E	20	
		4	2	52		E	40	
		8 59	1	39.5		E	50	
		26		35		E	20	
		26	1.5	32.5		E	30	
		20		28		E	10	
		26	2	23		E	30	
		56		17.5		E	15	
		53	11		2.5	E	30	
		26			18.5	E	10	
		26			14.5	E	15	
		51			17.5	E	20	
		49			24	E	15	
		26	4		28	E	30	
		28	4		36	E	15	
		26			42	E	15	
		47	3.5		44.5	E	20	
		28			74	E	10	
		28			86	E	35	
		9 12	1		78.5	W	15	
		20	2		57	W	25	
		18			48	W	25	
		15	8		24.5	W	Low.	
		8 26			10	W	40	
		26			6	W	20	
		26	4	7		W	45	
26		10.5		W	15			
9 12		24		W	10			
8 26		31		W	15			
9 10		68		W	10			
8		69		W	10			
May 27.	S.S	8 11	..	59		E	15	} Ca. photographs 8 ^h 26 ^m and 9 ^h 12 ^m . Ca. Ca. A detached dot. Ca. An arch. 100" high in Ca. A Ca streak from top flows to +26° E Ca. A Ca streak from this, 30" high, meets the last Extends over 7" in Ca. Ca. A small portion of this was seen in C. Ca. } Low in Ca. Ca. Ca. } Connected in Ca. See Note. Ca. Ca. photographs 8 ^h 11 ^m and 9 ^h 21 ^m
		9 41		52		E	20	
		8 11		50		E	20	
		11		39.5		E	45	
		9 35	4	22		E	50	
		8 11	2	14		E	20	
		9 33		9		E	10	
		31			4.5	E	25	
		28	2		10	E	30	
		8 11			14	E	15	
		9 16	1		16.5	E	20	
		21			48	E	15	
		21	1		46	E	15	
		21			48	E	15	
		8 11	1.5		57.5	W	15	
		57	1		55.5	W	25	
		11	2		51	W	15	
		47			32	W	10	
		42	2		25	W	30	
		11	4		19	W	20	
		9 59	3	10.5		W	60	
		55		29		W	10	
53		44		W	10			
8 11		48.5		W	15			
9 50		69		W	10			
48		78.5		W	25			
46	3	89		W	25			

Date and observer	Hour I S T		Base.	Latitude		Lamb.	Height	Remarks.	
				North	South.				
1910.									
May 28.	A.Y.S.	H	M	°	°	°	"		
		9	13	.	55		E	20	
			13	2	53		E	30	Two jets close together.
		8	8		38		E	25	Ca. Slants to +37° E.
		9	7		30		E	20	
			7	2.5	23		E	50 ±	85" high in Ca.
			33		7.5		E	10	
		8	43	13		13.5	E	60	
			33			33	E	10	
			8	1		34	E	35	Ca.
			32	2		45	E	20 ±	O slightly displaced to red at base. 10" high in Ca. A Ca streak from top meets limb at -42° E.
			8			54	E	10	Ca.
		9	28			73	E	10	
			26			41	W	10	
		8	8			15	W	20	Ca.
		9	25			9	W	10	
			28	4	9		W	35 ±	140" high and slightly changing in shape in Ca.
	16	9	24.5		W	30			
8	8		29		W	15	Ca.		
	8		44.5		W	10	Ca.		
May 29.	A.Y.S.	8	42	..	60		E	10	
			42		57		E	10	
			38		41		E	50	Ca.
			38	1	31.5		E	50	Ca.
			40	1	26.5		E	30	
			38	3	12.5		E	25	Ca. An arch
			38	1.5		3.5	E	10	Ca.
			39	1		5.5	E	20	
			33	3		11.5	E	90 ±	Rather faint. Top flows southwards and 150" high in Ca.
			30	1		23.5	E	10	
		9	28			42	E	10	
		8	25	5		51.5	E	50	55" high at 9h 2m. 30" high in Ca.
		9	0	1		70.5	E	20	Not seen at 8h 25m.
		8	59	1		62.5	W	15	
			38			53.5	W	10	Ca.
			58			46	W	10	
			38			7	W	50	Ca. Detached.
	55	4	8		W	35, 40	An arch. Bigger, and 90" high in Ca.		
	49	1	23.5		W	35			
	47	9	27.5		W	50 ±	Very faint. 75" high in Ca.		
May 30.	G.N.	9	52	...	55.5		E	10	
			50	2	71		E	15	
			48		57		E	10	Ca.
			48		55		E	10	Ca.
			48		47.5		E	60	Ca.
			49		41.5		E	45	Very faint. Detached.
			48	4		2	E	10	Ca.
			45	9		10.5	E	55, 30	
			43	2		24	E	15	0° broad in Ca.
			40	5.5		50	E	60	
			36			79	W	15	
			35			78	W	15	
			48			20	W	15	Ca. Very faint.
			48			8	W	15	Ca. Do.
			10	1		2	W	10	Very faint in Ca.
			0	2	32		W	60	Faint. Ca photographs 9h 48m and 9h 20m.
		May 31.	S.S.	9	34		79		E	15
	34				76.5		E	15	
	30				55		E	10	
	5				50		E	20	Ca.
	26			3.5	45.5		E	60	

Date and observer.	Hour I S.T		Base	Latitude.		Limb	Height.	Remarks
				North	South			
1910	H	M.	°	'				
May 31. —contd	S.S.	9 25	7	26.5		E	70 ±	A cloud connected to limb at + 30° and + 23° E. 120" high in Ca.
		22		19.5		E	10	
		5		11		E	15	Ca.
		5		8		E	Low	Ca.
		5		3		E	15	Ca.
		5			5	E	10	Ca.
		5			6	E	25	Ca.
		18			14.5	E	10	
		18	5		24.5	E	20	
		18			31	E	10	
		5			36	E	Low.	Ca.
		10	7		49.5	E	75	
		5			59	E	10	Ca.
		4			65	E	10	
		5			78.5	E	20	Ca. Faint.
		2			80.5	E	20	
		0			89	E	25	
		8 58	3		79	W	20	
		9 5			53	W	Low.	Ca.
		8 48			44.5	W	10	
		9 5			42	W	Low	Ca.
		8 42	3		29	W	30	} Connected and 45" high in Ca
		39			18	W	35	
		9 52			6	W	25	
		5		18		W	25	Ca.
		49		22.5		W	25	
		40		27.5		W	25	
		47		31		W	15	
		45	4	38		W	25	An arch. 40" high in Ca
		48	3	48.5		W	15	
								Ca photographs 9h 5m and 8h 18m.
June 1.	A.Y.S	9 29	..	85	..	E	15	
		24	1	61.5		W	45	
		8 59	5	54.5		E	35	Slightly different in form at 9h 57m. 50" high in Ca.
		10 4		49		W	10	Ca.
		4		47		W	10	Ca.
		4		40		W	10	Ca.
		4		36		E	30	Ca.
		8 51	2	34		E	10	} Connected in Ca.
		10 4		30		E	120	
		4		24		E	60	Ca. Detached
		4	1		25	W	Low.	Ca. Slants, and almost meets the last
		4			4	E	10	Ca
		8 46	1		5.5	E	10	
		10 4	1		9.5	E	20	Ca.
		8 45			11.5	E		No prominence C was slightly displaced to red.
		44	1		20	W	20	
		38	8		50	W	70	
		33			58	E	15	
		10 4			66	E	10	Ca. Faint.
		4			75.5	E	20	Ca. Do
		9 52	3		54	W	30	20" high at 10h 4m and 30" at 9h 47m in Ca.
		10 4			45	W	10	Ca.
		4			33	W	20	Ca.
		9 51			31	W	10	
		50			18	W	30	Detached. Connected to limb, faint, and 60" high in Ca.
		10 4			14	W	30	Ca. Faint.
		4		32.5		W	15	
		9 47	1	39.5		W	15	30" high at 8h 36m, and 10" at 10h 4m in Ca.
		40	2	50		W	50	A Ca streamer from top seen only at 9h 47m flows slightly westwards.
								Ca photographs 10h 4m, 9h 47m, and 8h 36m.
June 2.	G.N.	9 7	..	83.5		E	20	Ca.
		7		70		E	15	Ca. Very faint.
		7	1	64.5		E	30	Ca.
		8 48	4	60		E	70	

Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height	Remarks.
			North.	South			
1910.							
June 2. —contd.	G.N.						
	8 44	1	58		E	20	A Ca streak from top flows both ways to +51" and + 54" E.
	9 7		39		E	25	Ca
	8 42		37		E	25	
	40	3	28.5		E	30	Faint. 90" high in Ca
	9 7		14		E	20	Ca. Faint.
	7	1	11.5		E	20	Ca Faint
	8 38			1	E	15	
	9 7			10	E	10	Ca. 40" high at 8h 17m.
	8 36	6		19	E	45	30" high in Ca.
	30	6		52	E	60	10" broad in Ca.
	9 7			71	E	15	Ca.
	7			58	W	10	Ca
	7			32.6	W	30	Ca
	8 58	4		26	W	15	30" high in Ca.
	52			10	W	10	
	9 7			8	W	10	Ca.
	8 52			4	W	30	Slants southwards
	9 7	1	5		W	30	Ca
	7		10		W	10	Ca.
	8 50	3	16.5		W	35	
	47		55		W	20	
	9 7		64		W	10	Ca Ca photographs 9h 7m and 8h 17m.
June 3.	S.S.						
	9 24	1.5	86.5		E	35	
	23	1	84.5		E	15	
	8 12		81		E	25	Ca.
	9 20	3.5	58.5		E	40	Ca prominence extends from + 54" to + 63" E.
	8 12	2	35.5		E	25	Ca.
	9 15	3	31		E	25	10" only in Ca.
	7	16	9		E	100	70" high in Ca.
	3	2		8.5	E	40	7" broad in Ca.
	0	2		18	E	60	Changing slightly, and 85" high in Ca.
	8 55			50	E	40	See Note 1
	58			53.5	E	10	
	52			59.5	E	20	Very faint.
	49			68.5	E	20	
	45			72.5	E	..	See Note 2.
	38			85	W	10	
	12			82	W	20	Ca. Faint.
	37			72.5	W	10	
	12			56.5	W	15	Ca.
	32	8		32.5	W	80	
	30			28	W	20	} Connected in Ca.
	30			22	W	30	
	12	1		20	W	20	Ca.
	9 40		20		W	20	
	37		50.5		W	10	25" high in Ca
	35		54		W	30	} See Note 3.
	33	3	58.5		W	30	
	29		78.5		W	10	
	28		85		W	20	
	28		89		W	10	
June 4.	G.N.						
	9 0	6.5	59		E	70	Ca.
	0		39.5		E	20	Ca.
	18	8	14		E	60	
	15		3		E	10	
	0			2.5	E	10	Ca
	12			13.5	E	20	
	12			16	E	65	
	9	1		29.5	E	30	
	7	2		54	E	40	Ca prominence extends from - 50" to - 57".
	0			89	W	10	Ca
	0			89	W	20	Ca. A streak meeting the next prominence.
	0	7		31.5	W	55	Ca. A small portion of this was seen in C.
	0		43		W	10	Ca.
	0	2	58		W	30	Ca Poor weather Ca photograph 9h 0m

Date and observer.	Hour I.S.T.	Base.	Latitude.		Lamb	Height	Remarks.
			North	South.			
1910.							
June 5.	G.N.						
	9 5	..	81	..	E	10	Ca.
	8 5	2	79		E	10	Ca.
	8 40	5	58.5		E	45	A small portion of this, 10' high, was seen in C.
	37		33		E	15	
	9 5	3	24.5		E	25	Ca.
	5		16		E	60	Ca. Top flows to + 18° E.
	8 35	1	4		E	15	
	33			13	E	10	
	9 5	2		17	E	30	Ca.
	5	1		19.5	E	10	Ca.
	8 32			31	E	15	
	9 5			35.5	E	20	Ca.
	5	2		39	E	40	Ca.
	8 30	4		52	E	35	
	59	3		32.5	W	60	The Ca prominence extends from - 29° to - 38°
	44		6.5		W	15	
	9 5		42		W	15	Ca.
	5		46		W	10	Ca.
	8 56	3	57.5		W	35	
	9 5		70.5		W	10	Ca.
	8 42	3	89.5		W	30 ±	Seeing poor. Ca photographs 9h 5m and 8h 15m; (poor).
June 6.	A.Y.S.						
	8 11	6	59	...	E	25	Ca. An arch.
	11		29.5		E	40	Ca. Detached.
	11		12		E	50	Ca. A jet.
	11		9		E	50	See Note.
	11			5	E	25	Ca.
	9 51			15.5	E	20	
	8 11	1.5		23.5	E	10	Ca.
	11			26	E	10	Ca.
	54	1		38.5	E	40	
	54	1		50.5	E	30	
	11	2		37	W	40	Ca.
	9 37			13	W	25	
	8 11		59		W	10	Ca.
							Seeing poor. Ca photograph 8h 11m; (poor).
June 7.	S.S.						
	9 2	...	89.5	...	E	10	Ca.
	2		80		E	10	Ca.
	10 12	1	58.5		E	25	Two prominences close together.
	9 2		21		E	55	Ca.
	2		18.5		E	25	Ca.
	2	1	14.5		E	30	Ca.
	32			5	E	25	Top extends from - 4° to - 7° E.
	30			11.5	E	35	
	2	8		16	E	10	Ca.
	24	2		25	E	15	
	2			36	E	30	Ca. Faint.
	17			42	E	30	
	17			44	E	30	
	18	4		52	E	35	
	2	1		67.5	W	15	Ca.
	2			56.5	W	20	Ca.
	2			23	W	10	Ca.
	2			25	W	10	Ca.
	10 32			13	W	25	
	9 2			7	W	20	Ca.
	10 28			2	W	15	
	9 2		1		W	10	Ca.
	10 26		5		W	10	
	25	1	30.5		W	25	Faint.
	9 2	1	32.5		W	10	Ca.
	10 22	1	52.5		W	20	Low in Ca.
	9 2	3	59.5		W	35	Ca. An arch.
	10 19		63		W	20	Slants, and meets the last. Ca photograph 9h 2m (poor).
June 8.	...						
	15 24	.	...	19	W	35	Ca.
	24	1		14.5	W	35	Ca.
	24	1		6.5	W	35	Ca.

Date and observer.	Hour I.S.T.	Base.	Latitude		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		"	
June 8. ...	15 24	..	28.5	..	W	15	Ca.
—contd.	24		39.5		W	15	Ca.
	24	1	57.5		W	25	Ca.
							No visual observations. Ca photograph (Hocculus) 15 ^h 24 ^m .
June 9. A.Y.S.	9 8	.	81.5		E	10	C slightly displaced to red. 20" high at 9 ^h 5 ^m .
	8 33		75.5		E	10	Ca.
	9 0	1	36.5		E	20	
	8 33		34.5		E	15	Ca.
	56	3	3		E	15, 20	6" broad, and 10" and 30" high in Ca.
	55	2.5		10	E	10	
	50	6		23	E	40	60" high at 9 ^h 57 ^m , 30" high in Ca.
	42			37	E	15	
	37	2		45.5	E	40	A Ca streak from the middle of this flows to —48° E.
	33			54	E	15	Ca
	33	3		56.5	E	30	} Changed, and only 20" high at 9 ^h 51 ^m .
	27	2		61	E	15	
	26			64	E	10	
	26			65.5	E	30	45" high in Ca.
	33			87	E	20	Ca.
	24	2		84	W	15	
	33			82	W	30	Ca
	33			78	W	10	Ca.
	33			65	W	25	Ca
	9 47	4		43	W	20	
	38	18.5		14.5	W	40	
	33	7	4.5		W	15	There is a small detached dot over the W. end of this
	8 33		11		W	15	Ca.
	9 30		12.5		W	10	
	8 33		15		W	10	Ca.
	9 29		16.5		W	10	
	29		22.5		W	15	
	8 33	2	28		W	25	Ca.
	33		28		W	40	Ca. Slants and meets the top of the next promi- nence.
	9 28	2	31		W	30	
	21	8	39		W	45	
	18		48		W	10	
	9	4	56		W	55	The top at the W. end was faint.
	7		78		W	10	
	8 33		88		W	10	Ca. Ca photograph 8 ^h 33 ^m .
June 10. S.S.	10 22	1	85.5	...	E	20	
	13		64.5		E	15	
	10		49.5		E	10	
	0	2	8		E	35	Ca.
	5		6.5		E	10	
	0			1	E	10	Ca.
	9 59	2		23.5	E	30	15" high in Ca.
	48			57	E	15	
	45			74.5	W	20	
	30	3		43.5	W	25	
	30			35	W	10	
	10 45	2	17.5		W	10	
	0	2	59		W	30	Ca
	25		76.5		W	10	
	22	1	88		W	20	
							Observed through cirrus. Ca photographs — 80° E to — 55° W. at 10 ^h 0 ^m , and the rest at 10 ^h 8 ^m ; poor.
June 12. G.N.	8 51	...	83.5	...	E	10	Ca
	51	2	68		E	10	Ca.
	51	7	44.5		E	25	See Note.
	53		39		E	60	
	48		30		E	60	
	46		26		E	60	

Date and observer.	Hour I S.T.		Base.	Latitude.		Limb.	Height.	Remarks.
				North.	South.			
1910.	H.	M.	°	°	°			
June 12. —contd.	G.N.	8 51	..	...	0.5	E	20	Ca.
		51	2		39.5	E	10	Ca.
		51			51	E	15	Ca.
		41			55	E	30	Faint.
		40			68	E	15	
		40			70	E	15	
		51			79	E	15	Ca.
		37	1		88	W	10	
		9 12			71	W	25	
		8 51			68.5	W	10	Ca.
		51			58.5	W	10	Ca.
		51	3		45.5	W	20	Ca.
		9 5	3		21.5	W	50	
		3	8		14	W	65	90° high in Ca.
		0			8	W	05	A detached streak.
		8 59	1		2.5	W	25	
		57		7		W	10	
		51		18.5		W	10	Ca.
		51	1	38.5		W	10	Ca.
		51		40		W	50	Ca. Slants to + 42°
		51		42.5		W	10	Ca.
		58	2	57		W	20	
		51		75		W	70	Ca.
		51	2	88.5		W	10	Ca.
								Ca photographs 8 ^h 51 ^m and 8 ^h 4 ^m .
June 13.	A.Y.S.	8 48	1	84.5	...	E	10	
		56		78		E	Low.	Ca.
		47	3	65.5		E	15	
		46		53.5		E	10	
		56		44		E	10	Ca. Faint.
		56		44.5		E	10	Ca. Faint.
		42	3	37.5		E	50	The Ca prominence extends from + 34° to + 41°.
		35		24		E	10	
		32	1	12.5		E	10	
		32		9.5		E	10 ±	
		56		1		E	15	Ca.
		56			4	E	10	Ca.
		56			15.5	E	10	Ca.
		30	2		19	E	25	
		28	1		29.5	E	15	
		24	1		59.5	E	15	
		56			09	E	10	Ca.
		21	1		80.5	E	20	
		56			87	E	20	Ca.
		56			89	W	10	Ca.
		20			86	W	20	
		19			81	W	10	
		56	1		78.5	W	19	Ca.
		56			63	W	10	Ca.
		56			59.5	W	30	Ca.
		9 40	3		54	W	10	
		40			49.5	W	15	
		8 58			43	W	10	Ca.
		9 34	1		28.5	W	10	
		19			18	W	100	A detached cloud. Connected to limb in Ca by 2 streaks at - 17° and - 19°.
		15	2		5	W	80	See Note 1.
		8 56			3	W	10	Ca.
		9 7		11.5		W	10	
		8 56	1	15.5		W	10	Ca.
		56		20.5		W	20	Ca.
		9 6	1	22		W	30	
		1	3	43.5		W	30	Very faint in Ca.
		0	12	57		W	35, 25	See Note 2.
		8 50		72		W	10	
								Ca photographs 8 ^h 56 ^m and 8 ^h 17 ^m .
June 14.	S.S.	9 18	...	51	...	E	10	
		8 49		47		E	15	Ca.
		9 7		40		E	50 ±	A very faint streak. 2° broad and 80° high in Ca.

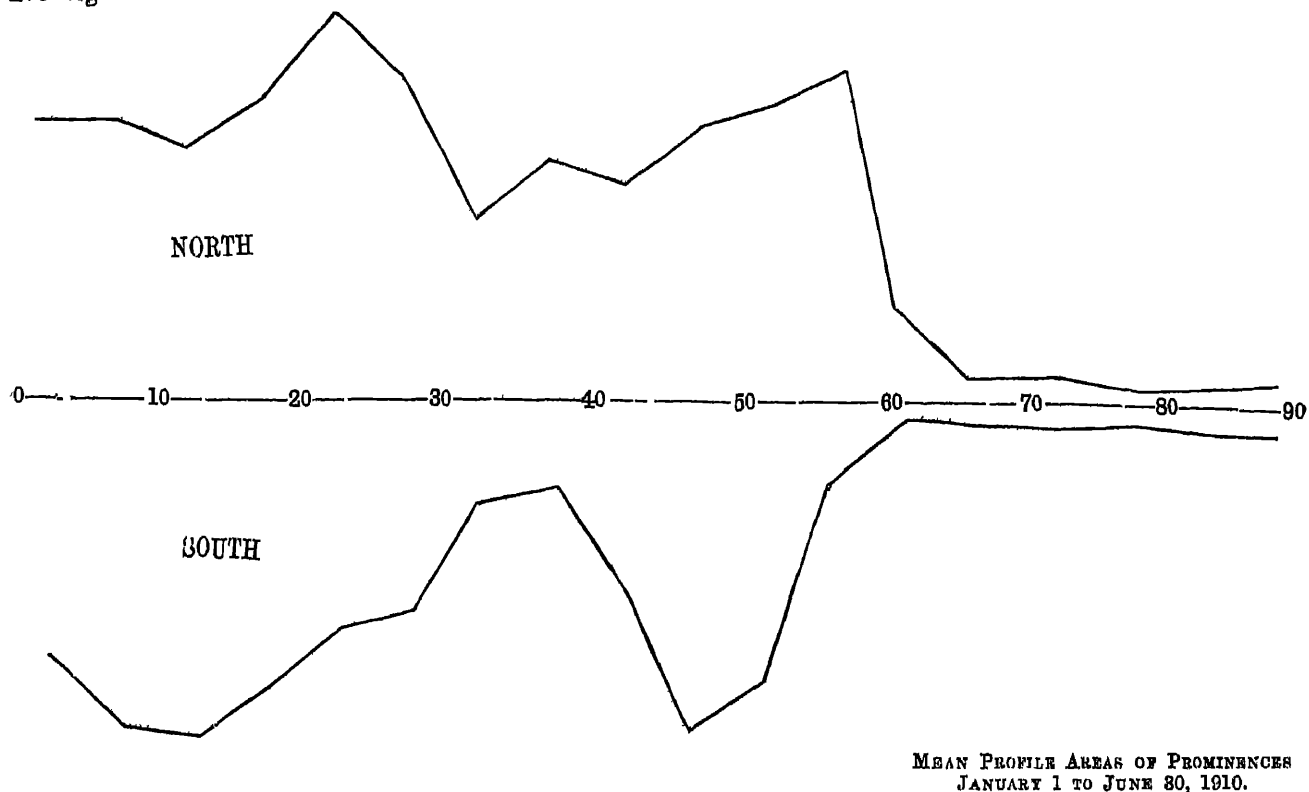
Date and observer.	Hour I.S.T.	Base.	Latitude.		Limb.	Height.	Remarks.
			North.	South.			
1910.	H. M.	°	°	°		'	
June 14. S.S.	8 49	2	31	.	E	35	Ca. Only a small streak 25" high was seen in C.
—contd.	9 3	1	17.5	.	E	30	
	8 49			13	E	15	Ca.
	58	1		15.5	E	25	
	56			20	E	15	
	54			31	E	10	
	50			39	E	10	
	4.1			46	E	10	Ca.
	46			52	E	10	
	44			73	E	25	
	37	2		51	W	25	
	34			41	W	10	
	49			5	W	15	Ca.
	9 25	2	23		W	15	
	22	1	32.5		W	20	
	8 49		50		W	40	Ca. Detached. Observed through thin cirrus. Ca photographs 8 ^h 49 ^m and 8 ^h 23 ^m .
June 15. G.N.	10 0	4	73	.	E	15	
	9 57	6	53	.	E	25	Ca.
	58		38		E	15	±
	57	1	23.5		E	10	Ca.
	57	2	12		E	10	Ca.
	56		8		E	20	±
	41	2		12	E	15	
	57	2		20	E	20	Ca.
	10 5	2		31	W	15	
	9 57	4.5		48	W	25	Ca.
	48	1		28.5	W	25	±
	10 3	2		9	W	40	±
	9 57	1	10.5		W	15	Ca.
	57		49		W	50	Ca. A slanting streak.
	57	7	53.5		W	40	Ca. Seeing bad. Ca photographs 9 ^h 57 ^m and 10 ^h 49 ^m (poor).
June 16. ...	13 29	2	20	...	E	40	Ca.
	29			28	E	25	Ca.
	29		33.5		W	25	Ca.
	29		64		W	65	Ca. Slants to + 60° W. No visual observations. Ca photograph (foculus) 13 ^h 29 ^m .
June 17. ...	8 39	3	19.5		E	60	Ca.
	39	8	12		W	30	Ca.
	39		50.5		W	60	Ca. A slanting streak.
	39	1	58.5		W	75	Ca.
	39	2	59		W	55	Ca. No visual observations Ca photograph (foculus) 8 ^h 39 ^m .
June 18. A.Y.S.	8 42	3	55.5	.	E	30	
	40		39.5		E	10	
	40	2	33		E	20	
	34	7	22.5		E	55	
	31	1	16		E	15	
	28	1	5.5		E	10	
	9 15			3	E	10	
	8 44			9	E	55	Ca. Part of the stem, 10" high, was seen in C.
	27			11.5	E	30	±
	24	2		38	E	25	±
	9 5	1		53.5	W	15	10" high in Ca.
	3	1	16		W	30	
	3	1	18.5		W	40	
	8 44		27		W	20	Ca.
	50	2	29		W	50	
	9 0		32		W	10	
	8 44	2	35		W	35	Ca.
	44	2	41		W	15	Ca.
	44	2	54		W	95	Ca. See Note. Seeing poor. Ca photographs 8 ^h 44 ^m and 8 ^h 15 ^m .

Date and observer.	Hour I.S.T.		Base.	Latitude.		Limb	Height.	Remarks.
				North.	South.			
1910.	H.	M.	°	°	°			
June 19	A.Y.S.	10 0 0 9 40 10 14 10 10 8 7 8 12 12	2 1 1 3 1	28 10.5 8 10 28 31.5 52 56		E E E W W W W W W W	80 20 30 40 35 15 30 ± 35 25 40	In Ca at 8 ^h 12 ^m , it was 1° broad and 30" high Detached. Connected and 50" high in Ca. Ca. Ca. Seeing poor. Ca photograph (poor, focculus) 8 ^h 12 ^m
June 20.	S.S.	10 4 4 4 40 4 4 33 30 4 20 4 8 4 0 4 4 4 4	1 3 1 1 3 2 3	79.5 76 47 12 10 14.5 36 42.5	.	E E E E E E E E E E W W W W W W W W	15 10 15 15 25 10 20 15 35 10 20 55 10 60 10 60 420, 240 30	Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. Ca. A small portion of this 10" high was seen in (). Faint. Ca. Slants southwards. Ca. Ca. Top flows both ways, and meets limb at +10° and +22° W. See Note. Ca. Observed only between +15° E. and -35° W Seeing poor. Ca photographs 10 ^h 4 ^m and 10 ^h 22 ^m .
June 26.	SS	8 14 44 44 44 44 44 9 15 8 57 44 44	. 2 2 1 2 3 5	56 41 38.5 35 29 25 22.5 9.5 32.5	..	E E E E E E E E E E W W W	60 30 30 45 10 15 40 25 ± 25 ± 35 25	Ca. Ca. Ca. Ca. Ca. Ca. Ca. 10" high in Ca. Do. Ca. Ca. Observed only between -40° E and -20° W. Thick cirrus. Ca photographs 8 ^h 44 ^m (focculus), 9 ^h 1 ^m (prominence).
June 27.	A.Y.S.	8 18 18 8 40 37 51 55 49 47 45 8 18 18 10	.. 3 4 2 1.5 3	70 59.5 23.5 14.5 17 32.5 39.5		E E E E E E E W W W W W	15 30 60 20 ± 10 10 10 30 10 25 15 10 50	Ca. Ca. Faint. 3° broad, and 20" high in Ca. Ca. Ca.
June 28.	S.S.	8 35 35 35 35 35 39 35 28	... 3 2 1	68 56 52 21.5 7.5 11 51 89.5	...	E E E E E E E E E E W	30 20 40 40 100 10 35 30	Ca. Ca. Very faint. } Only small jets 10" high were Ca. } seen in C. Ca. Ca. A detached arch.

Date and observer.	Hour I.S.T.		Base.	Latitude		Limb	Height.	Remarks
	H.	M.		North	South			
1910.								
June 29. -- contd.	S.S.	12 3	1	.	8	W	30	Changing. C slightly displaced to violet at top 110' high in Ca
		8 35		13		W	15	Ca
		8 35		24		W	15	Ca Seeing very bad Ca photograph 8 ^h 35 ^m (poor).
June 30.	A.Y.S.	10 8	1	65.5	..	E	10	
		8 34	3	7.5		E	30	See Note
		9 40			6	E	15	Ca
		9 40			16	E	20	
		9 39	4		51	E	30	
		10 8			61	E	20	
		8 9			19	E	40	Ca Slants southwards
		9 9		1.5		E	30	Ca Do.
		10 6	0.5	22		W	45	
		9 15		36.5		W	15	
		47		45.5		W	15	
								Ca photographs 8 ^h 9 ^m (focculus), 8 ^h 20 ^m (promi- nence)

REMARKS ON THE DISTRIBUTION OF THE PROMINENCES IN LATITUDE
DURING THE FIRST HALF OF THE YEAR 1910.

The general features of prominence distribution during the six months ending 1910, June 30, are shown in the accompanying diagram, which represents graphically the mean profile areas found for each zone of five degrees in latitude.



The limits of latitude towards the poles where prominence formation almost ceases have remained unchanged compared with the previous six months, and there is little change to record in the general distribution except that a marked zone of diminished activity has become evident in the southern hemisphere between 30° and 40°.

The mean daily profile areas for the two hemispheres are :

North	2.40	square	minutes
South	2.11	"	"
Total	4.51	"	"

The total mean area shows little diminution compared with the same period of the previous year, and a distinct gain compared with the previous six months; this however is probably the effect of better observing conditions during the dry season in spring.

Metallic prominences were rather infrequent, ten were recorded in the northern hemisphere ranging from + 2° to + 75°, and sixteen in the south between - 3° and - 82°. The high latitude of a few of the prominences is an unusual feature.

A prominence remarkable for its length of life was recorded on the photographs at each successive appearance on the limb during 82 days, or six half rotations of the sun. It was also photographed as an absorption marking on the K_2 disk plates during three successive apparitions. This prominence has formed the subject of a detailed enquiry concerning the angular speed of rotation, the general result showing that whilst the origin of the prominence was carried round with the normal speed of the photosphere, the prominence material drifted westwards over the surface, having an angular speed of from 5 to 10 per cent. greater than that of the photosphere as determined from spots and faculae. The prominence was situated in longitude 70° to 80° and extended across the equator over a considerable arc of latitude. It was first photographed on the west limb on February 5 and appears last on the plates of April 28.

J. E.

NOTES.

- 1910.
- January
1. (1) Lat. $+39^\circ$ E. A streak slanting northwards. In Ca it was 4° broad, $20''$ and $30''$ high, and surmounted by a detached spot $50''$ high.
 - (2) Lat. $+16^\circ$ E. The eastern portion of the prominence was very faint. Top slants eastwards, and bends towards the limb. In Ca this streak meets the limb at $+8^\circ$ E. Other Ca streaks from the top meet the limb at $+20^\circ$ E. The height of the prominence in Ca was $100''$.
 - (3) Lat. $+15^\circ.5$ W. Very bright. C was displaced to red for about 1.0 \AA at base. D_1, D_2 were bright, and the whole prominence was seen in $b_1, b_2, b_3,$ and b_4 .
 7. (1) Lat. $-17^\circ.5$ W. Eruptive. Changing. At $9^h 10^m$, C was displaced to red at the top, and to violet at the base. At $9^h 18^m$ it was $90''$ high, and C was displaced to red for 2.0 \AA at the base and to violet over the rest of the prominence, the amount being 0.3 \AA in F.
 - (2) Lat. -6° W. A bright bank with a very bright streak at lat. -10° W. It was metallic, and the following bright lines were observed. 4922 (He), 4924.107 (Fe), 5016 (He), 5316.790 (Fe), $b_1, b_2, b_3, b_4, D_1, D_2, 6677$ (He), 7765. C was displaced for 1.0 \AA both ways at $8^h 49^m$. At $11^h 0^m$ both C and D_3 were displaced. The amounts were 1.0 \AA in D_3 and 2.0 \AA in F to violet. At $11^h 7^m$ C and D_3 were displaced to red for 1.0 \AA . Between $11^h 30^m$ and $11^h 46^m$ throughout the bank the F line presented an irregular appearance owing to a series of displacements both ways. In Ca at $11^h 8^m$ the bank was $35''$ high, and the main prominence consisted of three slanting arches $120''$ and $100''$ high.
 - (3) Ca photographs:—Flocculus: $7^h 52^m$.
Prominence: $8^h 23^m, 8^h 50^m, 10^h 10^m, 10^h 31^m, 10^h 35^m, 11^h 6^m, 11^h 10^m, 11^h 38^m, 11^h 42^m, 12^h 44^m, 14^h 8^m, 14^h 26^m,$ and $14^h 30^m$.
 10. Lat. -15° W. A detached cloudlet in hydrogen. In Ca it was $70''$ high, and was connected to the limb at lat. -10° W.
 15. (1) Lat. $-22^\circ.5$ E. A faint streak connects it to a bright cloudlet $75''$ high at lat. -28° E. In Ca at $8^h 20^m$ the whole prominence was a strip $75''$ high, and slanting south from lat. -19° E.
 - (2) Lats. $-38^\circ, -32^\circ.5,$ and -21° W. In Ca these are connected, and extend from lat. -45° E to -3° E. There were only three irregular streaks in Ca at $9^h 45^m$.
 - (3) Lat. $+36^\circ$ W. Ca. A broken detached streak slanting northwards. At $9^h 45^m$ it was connected to the limb at $+33^\circ$ W.
 17. Lat. -7° E. Slants northwards. In Ca the main prominence extends 3° further south, and is $50''$ high, and streaks near the base extend from $+4^\circ$ to -21° E.
 18. Lat. $+64^\circ.5$ E. Changing. At $8^h 2^m$ the main prominence was only $40''$ high, but was very bright. At $11^h 45^m$ the prominence was horse-shoe-shaped.
 21. Lat. -11° E. Eruptive. At $9^h 31^m$ there was only a small, bright prominence $10''$ high at lat. $-7^\circ.5$ E.; but it was surmounted by a faint cloud 8° long, and about $80''$ high. In Ca it extended from $+3^\circ$ to -15° E and consisted of several irregular arches, and two slanting streaks $90''$ and $100''$ high at $8^h 14^m$. The whole prominence was changing.
 26. Lat. $+58^\circ.5$ E. There were low jets in C close to the base of this prominence at the east end. These were not seen in Ca. The southern edge of the prominence was sharp and straight at lat. $+55^\circ$.
 28. Lat. -76° W. C was slightly displaced to violet. The prominence was changing rapidly. It was 1° broad, and $30''$ high at $9^h 37^m$ and had completely disappeared by $9^h 40^m$. It was not seen at $8^h 42^m$.
- February
4. (1) Lat. $+18^\circ.5$ E. A slanting jet $80''$ high went up from its top in the Ca photograph taken at $8^h 59^m$.
 - (2) Lat. -15° W. Slants to -20° W. In Ca, at $8^h 59^m$ the top was at lat. -25° W. and $135''$ high. At $9^h 25^m$ in hydrogen it was a bank 4° broad, and $25''$ high.
 - (3) Lat. -8° W. In Ca it slanted up to the equator, and was $75''$ high; but it was changing. At $9^h 25^m$ there was only a low prominence there $15''$ in height.

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- February 9. Lat. $+10^\circ$ E. Ca streamers extend from the top to lat. $+1^\circ$. The prominence is also surmounted by Ca streamers at the top.
10. (1) Lat. $-3^\circ.5$ E. Detached from the limb but connected by a streak to the top of the last prominence. In Ca the streak extends to lat. -10° E.
- (2) Lat. $-13^\circ.5$ E. C was slightly displaced to red at several places at the base. The prominence was metallic, and the following bright lines were observed: 7765, 6677, D_1 , D_2 , 5316.8, b_1 , b_2 , b_3 , b_4 , 5018.6, 5016, 4924.1, and 4922. The shape of the prominence was well seen in D_1 , D_2 , b_1 , b_2 , and b_3 . F was displaced both ways at several places at the base, the maximum amount being 3.0 \AA both ways. At $9^h 15^m$ F was displaced 1.5 \AA to violet at the southern end of the top.
15. Lats. -24° , -18° , and $-6^\circ.5$ W. 120", 60", and 50" high and changing in Ca. The shape of the prominence was slightly different, and the height was 140" at $10^h 28^m$.
16. Lat. -6° W. Very faint. Top flows northwards. C was displaced to violet at the base for 1.0 \AA . Only a small prominence 10" high was seen here at $9^h 58^m$. Changing in Ca. At $8^h 44^m$ it was a streak 150" high, at $9^h 15^m$ 300", and at $9^h 44^m$ 500" high.
22. Lat. $+13^\circ$ E. Ca. Three connected arches extending from $+19^\circ$ to $+7^\circ$ E. Only the stem of the northern arch, 20" high, was seen in hydrogen.
24. (1) Lat. $-6^\circ.5$ E. Ca. An arch covering 3° of the limb. A streak from the top flows to lat. -15° E. A small portion of this streak was seen in hydrogen as a detached prominence 30" in height.
- (2) Lat. -18° W. The prominence was not seen at $8^h 30^m$. In Ca, in this position, there was a low prominence surmounted by a detached cloudlet 30" high.
25. Lat. $-14^\circ.5$ W. There was a small, faint streak at the top in hydrogen which was not seen on the Ca photographs.
28. (1) Lat. $+58^\circ$ E. Very faint. In Ca, the prominence consists of two arches extending from lat. $+60^\circ$ to $+56^\circ$ E and 25" and 15" high.
- (2) Lat. $-21^\circ.5$ W. In Ca it was a streak flowing westwards, and meeting the next prominence.
- (3) Lat. $+53^\circ.5$ W. Very faint. A Ca streak from the top bends and meets the limb at $+47^\circ$ W, forming an arch 70" high.
- March 1. (1) Lat. $-25^\circ.5$ E. Two Ca streaks from the top 40" high flow both ways. Another 25" high flows northwards as far as -15° E.
- (2) Lat. $-4^\circ.5$ W. The prominence consisted of low jets at base with a streak from the middle flowing northwards. Changing. Eruptive and metallic at base. Showed displacement in C to violet for about 2 \AA . D_1 , D_2 , b_1 , b_2 , b_3 , b_4 , and 5316.8 were bright at the base. In the Ca photograph taken at $8^h 0^m$ it was 15" high and very bright, rising out of a large mass of flocculi. At $8^h 10^m$, a slanting streak 70" high stretched out of the same place. At $8^h 48^m$ the prominence had formed into a great slanting loop 5' 45" in height. At $9^h 13^m$ the loop had faded in the middle, and the height was 4' 55". At $9^h 19^m$ the summit of this broken loop was 4' 25" high, and it was joined by a fine thread to the prominence at lat. $+21^\circ.5$ W. At $9^h 49^m$, there was only one long streak 2' 45" high in the place. At $10^h 30^m$ and at $14^h 20^m$ only low jets of 60" and under were seen in this region.
2. (1) Lat. $+60^\circ$ E. Slants eastwards. Changing rapidly. It was 20" high at $8^h 43^m$, and at $8^h 45^m$ it was almost detached from the limb and 30" high.
- (2) Lat. $-8^\circ.5$ W. Eruptive. Bright. b_1 , b_2 , b_3 , b_4 , D_1 , D_2 , 5316.8, 4924.1, and 4924.9 were bright. F was displaced to red for about 1.0 \AA , and to violet for about 0.5 \AA . At $9^h 45^m$ the amount of displacement was 2.5 \AA to red. The prominence was 40" high at $9^h 31^m$. In Ca there was a streak from the top 70" in height.
5. Lat. -15° W. A Ca streak from this meets the limb again at lat. $+3^\circ$ W. Another from the top rises to 100" in height.
6. Lat. $+1^\circ$ E. A curved Ca streak connects this with a detached Ca cloud 6° long and 105" high. At $9^h 50^m$ in Ca the whole prominence had changed into a slanting streak 100" high at $+1^\circ$ E, with a small bank at $+2^\circ.5$ E.
7. Lat. $+8^\circ$ E. Ca. A jet. A streamer from the top flows southwards to -10° E. At $8^h 42^m$ the prominence had risen to 100" in height, and the long streamer had disappeared.
9. Lat. $+44^\circ$ E. Ca. The prominence consists of streaks extending over 7° of the limb. A portion of this, 15" high, was seen in hydrogen.

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- March 10 Lats. $+1^{\circ}$, $+19^{\circ}$, and $+21^{\circ}5$ W. At $8^h 0^m$ in Ca, these formed a single prominence, $30''$ and $40''$ high extending from $+14^{\circ}$ to $+27^{\circ}$ W.
13. (1) Lat. $-33^{\circ}5$ E. Very bright. Changing rapidly. At $8^h 39^m$, b_r , b_2 , b_3 , and b_4 were bright, and F was displaced to red for about 0.5 \AA . It was streaky and $45''$ high at $8^h 42^m$. At $8^h 46^m$ there was only a small streak here, which was faint except at the top where the displacement in C was 1 \AA to violet, and 0.5 \AA to red. Only a small bit was seen at $9^h 33^m$. In Ca it was $15''$ high.
- (2) Lat. $-44^{\circ}5$ E. Slants eastwards. Faint at the top. $75''$ high in Ca. A Ca streak crossing the middle of this prominence extends both ways to lat. -42° and -46° E.
14. (1) Lat. $+54^{\circ}$ E. Slants eastwards. A Ca jet close to, and connected with this is $40''$ in height.
- (2) Lat. -5° E. An arch 4° broad, and surmounted by a detached cloudlet $50''$ high in Ca.
- (3) Lats. -26° , and -19° W. A Ca prominence slanting southwards, extends over these and is $150''$ in height. It was breaking up and fading at $8^h 34^m$ and $8^h 57^m$, but still it was $150''$ at the highest point.
- (4) Lat. $+17^{\circ}$ W. Top bends, and meets the limb again at lat. $+21^{\circ}$ W. A Ca streak from the base of this meets the limb at lat. $+9^{\circ}$ W. $60''$ high in Ca.
16. Lat. $-55^{\circ}5$ E. Detached. Double. Changing. At $8^h 16^m$ in Ca, it was $30''$ high, and at $8^h 1^m$ it was differently shaped, and only $15''$ high.
17. (1) Lat. -3° E. A Ca streak from the top meets the limb at lat. $+16^{\circ}$ E. In Ca the prominence was slowly rising. It was $85''$ high at $8^h 0^m$, and $100''$ at $9^h 11^m$.
- (2) Lat. $+29^{\circ}$ W. A streak slanting northwards. Very faint. In Ca the top meets the limb again at lat. $+32^{\circ}$ W.
- (3) Ca photographs $8^h 0^m$, $8^h 17^m$, $9^h 11^m$, $10^h 25^m$, $11^h 2^m$, and $14^h 41^m$.
18. (1) Lat. -69° W. C was slightly displaced to red at the base. Changing rapidly. At $9^h 34^m$, it was $20''$ high, and C was displaced to violet, at the top, for about 0.5 \AA . At $9^h 38^m$, top became faint, but the displacement continued.
- (2) Lat. -44° W. C was slightly displaced to red at the top for about 0.5 \AA . Changing. There was a small detached streak over the top at the southern end which was not seen earlier than $9^h 25^m$, and also not seen in Ca. $45''$ high in Ca.
- (3) Lat. $+38^{\circ}$ W. F was displaced to red for about 1.0 \AA . b_1 , b_2 , b_3 , b_4 , D_1 , and D_2 were bright.
19. Lat. -3° E. A Ca streak from the northern end flows northwards from the top to lat. $+12^{\circ}$ E. Another from the southern end meets the next prominence.
21. (1) Lat. $+73^{\circ}5$ E. A faint streak slanting northwards up to lat. $+88^{\circ}$ E. Only the stem, $15''$ high, was seen in Ca.
- (2) Lat. -12° W. There was no prominence here but C was displaced to red for about 2 \AA . The amount of displacement was much less at $9^h 42^m$, and there was no displacement at $9^h 44^m$.
22. (1) Lat. $+50^{\circ}5$ W. The prominence was faint at the top. The Ca prominence is $80''$ high and extends to $+43^{\circ}$.
- (2) A prominence 40° long was found inside the disc, in the eastern hemisphere, on the flocculus plates.
23. (1) Lat. $+14^{\circ}$ E. Changing. The top of the prominence was hazy, and broader, but the stem was very bright. 6077 , D_1 , D_2 , b_1 , b_2 , b_3 , b_4 , 5316.8 , 5269.7 , and 4924.1 were bright at the base at $8^h 40^m$. At $8^h 47^m$ there was displacement both ways in F of about 1.5 \AA which however soon disappeared. At $8^h 52^m$ there were 2 bright stems at the base. $50''$ high at $8^h 54^m$. At $9^h 17^m$ there were only the stems $15''$ high, and by $9^h 20^m$ the long streak at lat. $+16^{\circ}5$ E was also gone. Changing in Ca.
- (2) There was a prominence about 40° long inside the disc on the flocculus plates.
25. The prominence inside the disc on the flocculus plates was still seen.
26. (1) Lat. $+31^{\circ}$ E. A faint cloud extending to $+36^{\circ}$ E, and connected to the limb at one point. Changing slightly in Ca.
- (2) Lat. -51° W. Top faint. The central part was $80''$ high. $45''$ high in Ca.
- (3) Lat. $+48^{\circ}5$ W. Seen only at $8^h 0^m$ in Ca. There is a Ca cloud $75''$ high connected to the top of this, and a Ca streak meets the limb at $+45^{\circ}$ W.
27. (1) Lats. $-39^{\circ}5$, and -37° W. In Ca, these form a single prominence $75''$ high, connected to the limb, and extending from lat. -35° to -41° W.

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- March 27. (2) Lat. -6° W. Very bright. C was displaced to red for 0.5 \AA , and to violet for about 1.0 \AA at $9^{\text{h}} 1^{\text{m}}$. Metallic. $6677, D_1, D_2, 5018.6, b_1, b_2, b_3, b_4$, and 5316.8 were bright. F was displaced to red for 2.0 \AA , and to violet for about 1.5 \AA , at $9^{\text{h}} 5^{\text{m}}$. The amount of displacement was varying. At $9^{\text{h}} 12^{\text{m}}$ the amount was 3.0 \AA in F to red. There was not much change in the shape of the prominence.
28. (1) Lats $+60^{\circ}.5$, and $+57^{\circ}.5$ E. In Ca these are more continuous at the base, 8° broad, and the top bends in the form of a loop to $+45^{\circ}$ E. $190''$ high, and was gone by $9^{\text{h}} 3^{\text{m}}$ in Ca.
- (2) Lat -14° W. Ca Top bends, and extends as far as -22° W. At $9^{\text{h}} 3^{\text{m}}$ a faint broken streak $75''$ high was seen. At $8^{\text{h}} 32^{\text{m}}$, a prominence $30''$ high was very faintly seen in hydrogen. Changing. Gone by $8^{\text{h}} 42^{\text{m}}$.
29. (1) Lats $+33^{\circ}$ E, and $+27^{\circ}$ E. Connected by a Ca streak which bends, and meets a Ca prominence $35''$ high at $+20^{\circ}$ E.
- (2) Lat $-42^{\circ}.5$ W. Ca Top extends to -39° and -46° W. At $8^{\text{h}} 51^{\text{m}}$, a small hydrogen prominence $10''$ high was seen at -44° W.
30. Lat. $+43^{\circ}.5$ W. Top flows slightly northwards. In Ca it meets the limb again at $+46^{\circ}.5$. Ca streak from the top flows to $+48^{\circ}$ W.
- April 2. (1). Lat $+56^{\circ}$ E. A small cloud connected to the limb by two stems at $+56^{\circ}$ and $+57^{\circ}.5$. $25''$ high in Ca
- (2) Lat. $+7^{\circ}$ E. Bright. $15''$ high, faint, and seen only at $8^{\text{h}} 6^{\text{m}}$ in Ca. In the plate taken at $8^{\text{h}} 14^{\text{m}}$ nothing was seen in this position.
3. Lat. -60° W. An arch. In Ca, it extends from lat. -60° to -62° W., is $20''$ high, and seen only at $8^{\text{h}} 35^{\text{m}}$.
4. Lat. $+47^{\circ}$ W. A Ca streak extending from $+43^{\circ}$ to $+50^{\circ}$ W. runs through the top of this prominence.
6. (1). Lat. $-49^{\circ}.5$ W. Changing slightly. $25''$ high at $9^{\text{h}} 13^{\text{m}}$. C was displaced to violet at the top for about 0.5 \AA . Not seen in Ca.
- (2). Observed partly through cirrus clouds. Strong wind during the observations. Ca photographs $8^{\text{h}} 22^{\text{m}}$ and $8^{\text{h}} 3^{\text{m}}$; the latter incomplete between lat. $+83^{\circ}$ E and -25° E.
9. Lat. $-7^{\circ}.5$ E. Bright. Streaks from the top were faint. C was displaced slightly to red at the base at lat -7° E. There was displacement both ways at the base for about 0.5 \AA at $10^{\text{h}} 40^{\text{m}}$. Changing; b_1, b_2, b_3, b_4 were bright at $10^{\text{h}} 46^{\text{m}}$. The Ca prominence consists of a low bright base at lat. -5° E, with streaks $80''$ and $90''$ high running from it northward. The bright base was conspicuous also on the flocculus plates.
10. Lat. $-51^{\circ}.5$ E. $30''$ and $75''$ high in Ca. It is continued inside the disc on the flocculus plates to an extent of 45° .
11. Lats. -6° , and -8° E. Rather faint. Changing. The Ca prominence consists of three arches superposed on each other, $150''$ high and extending from lat. -3° to -8° E.
12. Lat. $+29^{\circ}$ W. Ca. Top extends both ways as far as lat. $+30^{\circ}$ W. and $+25^{\circ}$ W. Only a low prominence was seen here in hydrogen.
18. Lat. $+5^{\circ}$ E. $40''$ high, and surmounted by a detached cloud $70''$ and $40''$ high in Ca.
25. (1). Lat. $-22^{\circ}.5$ W. Changing slowly. Surmounted by a cloudlet which disappeared at $9^{\text{h}} 33^{\text{m}}$.
- (2). Lat. $+66^{\circ}.5$ W. Slants northwards. The whole prominence was fading steadily, and was completely gone by $9^{\text{h}} 35^{\text{m}}$. Not seen on any Ca photograph.
26. (1). Lat. $82^{\circ}.5$ E. Slants southwards. Changing slightly. At $8^{\text{h}} 41^{\text{m}}$ it met limb again at lat. -86° E, and was $30''$ high. Bright. Metallic. b_1, b_2 , and b_3 were bright. The prominence had disappeared by $10^{\text{h}} 30^{\text{m}}$. Nothing was seen here in Ca.
- (2). Lat. -40° and -31° W. Connected by a Ca streak which extends to lat. -27° W.
- (3). Lat -31° W. Metallic. $D_1, D_2, b_1, b_2, b_3, b_4, 4924.1$, and 5316.8 were bright.
27. Lats. $-8^{\circ}, +5^{\circ}.5$, and $+12^{\circ}$ W. In Ca these prominences are connected, extend from Lat. $+17^{\circ}$ W to lat. $-18^{\circ}.5$ W, are continuous except for small breaks, and $50''$ high.
28. (1) Lats. $+33^{\circ}.5, +25^{\circ}$ and $+17^{\circ}.5$ E. Connected in Ca. A Ca streak from them meets the prominence at $+2^{\circ}$ E
- (2) Lat. $+2^{\circ}$ E. Bright. Metallic. Lower half well visible in D_1, D_2, b_1, b_2 . C and D_3 were displaced slightly both ways over almost the whole prominence. They appeared double in several places. The prominence was changing very much. The height was $75''$ at $8^{\text{h}} 58^{\text{m}}$, $85''$ at $9^{\text{h}} 19^{\text{m}}$, $110''$ at $10^{\text{h}} 5^{\text{m}}$, and $10^{\text{h}} 24^{\text{m}}$.
- (3) Ca photographs $8^{\text{h}} 59^{\text{m}}, 9^{\text{h}} 19^{\text{m}}, 10^{\text{h}} 5^{\text{m}}, 10^{\text{h}} 8^{\text{m}}, 10^{\text{h}} 24^{\text{m}}$, and $10^{\text{h}} 27^{\text{m}}$.

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- April 29. Lat. + 4° 5 E. Changing. At 8^h 57^m it was 30" high. At 8^h 59^m, F was displaced to red for almost 3.0 Å and to violet for about 1.0 Å. b_1 , b_2 , b_3 , and b_4 were bright. The shape of the prominence was rapidly changing. At 9^h 2^m top bent and almost met the limb, and displacement in C was 2.0 Å to red. At 9^h 5^m, it extended over 5° of the limb and was 40" high. There was displacement throughout the prominence in C to red. Maximum amount was 2.0 Å. At 9^h 19^m the prominence was 35" high and C was slightly displaced to red over the whole prominence.
- May 2. (1) Lat. + 48° E. 5° 5 broad, and a streak from top flows to + 54° E. in Ca. This streak was seen only at 8^h 20^m.
 (2) Lat. - 21° E. Top broader, flows both ways, and meets the limb at - 16° E. and - 25° E. Continuous in Ca from - 16° E to - 25° E.
 (3) Lat. + 29° W. Three connected prominences. There is a low elevation from the northern end to + 38° W.
3. Lat. + 8° 5 E. Faint. At 8^h 20^m, in Ca, it had a slightly different form and was 45" in height. At 9^h 0^m, it was similar to the hydrogen prominence.
5. Lat. - 3° E. At 8^h 30^m, there was only a displacement to violet of about 0.2 Å at - 4° E°. The prominence had formed at 8^h 32^m but it was then low. It was 15" at 8^h 33^m, 20" at 8^h 35^m. At 8^h 36^m, it was very bright and was 25" high. D_1 and D_2 were bright. The whole prominence was visible in b_1 , b_2 , b_3 , b_4 . 5316.8, and 4924.1 were very bright. The height of the prominence was 30" at 8^h 39^m when there was a displacement at top for about 0.2 Å to V. 45" high at 8^h 41^m. There was no change in form at 8^h 45^m, at 8^h 47^m it was 60" high. The following bright lines were observed in addition: 4891.3, 4891.6, 4896.6, 4924.1, 4933.5, 5080.6, 5234.8, 5316.8, and 6677. At 9^h 51^m, there were only two streaks, 30" high. 45" high in Ca.
9. Lat. - 49° 5 E. Top bends as far as - 46° E. At 9^h 58^m, there was only the stem at - 49° E. and it was about 30" in height.
12. Lats. - 22°, and - 26° E. At 9^h 48^m, these were connected, and formed a single prominence 35" and 20" in height. In Ca it extended from - 23° E. to - 28° E. and was 30" high.
14. (1) Lat. - 28° W. The prominence was low at 8^h 42^m, and 35" at 8^h 51^m; 15" high in Ca.
 (2) Lat. + 13° 5 W. Surmounted in Ca by a detached cloud extending from + 6° W. to + 20° W and 90" in height.
15. (1) Lat. + 79° 5 E. C was slightly displaced to red. In a few seconds it was a jet 15" high. It was 25" high at 7^h 34^m when C was displaced to red for about 0.3 Å.
 (2) Lat. + 45° 5 W. A hook. At 8^h 47^m in Ca, there was a small streak at the top 90" high. The streak was not seen at 8^h 3^m.
 (3) Lat. + 60° 5 W. The prominence bends as far as + 54° W. D_1 , D_2 , b_1 , b_2 , b_3 , and b_4 were bright at + 62° W.
16. Lat. + 41° 5 E. Top bends and meets the next prominence. Showed displacement to V for 0.5 Å on the highest parts from 9^h 0^m to 9^h 15^m. Changing slightly.
18. Lat. - 19° E. Bright. The prominence was visible in D_1 , D_2 , b_1 , b_2 , b_3 , and b_4 ; and the following bright lines were observed in addition, 6677, 5316.8, 5283.7, 5234.8, 5208.9, 5018.6, 5016.5, 4924.1, and 4896.7
24. (1) Lat. - 11° W. C was displaced slightly to red, and F was displaced to red at 9^h 58^m for 1.5 Å. The following metallic lines were observed: 7765, 6677, D_1 , D_2 , b_1 , b_2 , b_3 , b_4 , 5535.1, 5316.8, 5018.6, 5016, 4924.1, and 4922.
 (2) Lats. - 2° 5, + 1° 5, + 10°, and + 14° 5 W. Connected. In the Ca prominence plate these are continuous, and extend from - 4° to + 15° W. In the Ca focculus plate the group is not so continuous, and is more like the hydrogen prominence.
 (3) Ca photographs 8^h 42^m and 8^h 19^m. Focculus plate 8^h 12^m.
25. Lats. - 21°, - 3°, + 11° 5, and + 19° W. Connected, and changing rapidly. At 10^h 4^m, the prominence was 130" high, at 10^h 10^m, 150". At 10^h 34^m it was not continuous at base, portions having got detached. At 11^h 7^m, the part of the prominence at + 12° W. was very bright. b_1 , b_2 , b_3 , and b_4 were bright. In Ca at 8^h 8^m there were 4 banks about 10° apart extending from + 23° to - 24° W. and heights ranging from 30" to 45". At 9^h 28^m there was a continuous prominence covering 47° of the limb, and 90" in height. At 11^h 0^m, there was a detached cloud 200" high at - 1° W with small jets along the limb from - 24° to + 23° W.

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- May 27. Lat. $+10^{\circ}5$ W. 1° broad and $95''$ high in Ca. Ca streamers from this pass both ways to $+6^{\circ}$ and $+13^{\circ}$ W. At $9^{\text{h}} 21^{\text{m}}$ the northern streamer was 3° longer.
- June 3. (1) Lat. -50° E. Top flows both ways slightly. The Ca prominence extends from lat. -49° to -52° E. and is $30''$ high.
 (2) Lat. $-72^{\circ}5$ E. A bright point. C was slightly displaced both ways. The prominence had formed at $8^{\text{h}} 46^{\text{m}}$ and was $15''$ high. The height was steadily increasing. It was very faint but $25''$ high at $8^{\text{h}} 47^{\text{m}}$.
 (3) Lats. $+54^{\circ}$ and $58^{\circ}5$ W. In Ca in this region there was a prominence 2° broad and $40''$ high, with a streak from the top flowing and meeting the limb at lat. $+53^{\circ}$ W.
6. Lat. $+9^{\circ}$ E. Ca. A jet. A streak from the middle of this flows parallel to the limb as far as lat. -1° E.
12. Lat. $+44^{\circ}5$ E. Ca. Two streaks connected at the top by another streak which meets the limb at lat. $+41^{\circ}$ E.
13. (1) Lat. -5° W. Bends, and extends to lat. -12° W. Changing. It was $125''$ high at $9^{\text{h}} 20^{\text{m}}$. At $8^{\text{h}} 17^{\text{m}}$ in Ca the prominence consisted of broken streaks extending from lat. -4° to -12° , and $130''$ high. At $8^{\text{h}} 56^{\text{m}}$ it was $75''$ high. The weather was too poor for taking further photographs
 (2) Lat. $+57^{\circ}$ W. In Ca, in this region, there were two prominences, one at $+51^{\circ}$, $10''$ high, and the other at $+60^{\circ}$: $2''$ broad and $10''$ high.
18. Lat. $+54^{\circ}$ W. Ca. A streamer from the middle of this meets the limb at lat. $+60^{\circ}$ E. A portion of this about $40''$ high was seen in hydrogen.
20. Lat. $+36^{\circ}$ W. Ca. A detached cloud. The base of it was $4'$ away from the limb, and the top $7'$. Changing. At $10^{\text{h}} 22^{\text{m}}$, the base was $270''$ and the top $450''$ away from the limb.
30. Lat. $+7^{\circ}5$ E. C was displaced to red at the northern end for 0.5 \AA . Changing. Metallic. Was very bright at $9^{\text{h}} 14^{\text{m}}$. The height was $25''$ at $9^{\text{h}} 41^{\text{m}}$, and $35''$ at $10^{\text{h}} 2^{\text{m}}$. The following bright lines were observed:— D_1 , D_2 , b_1 , b_2 , b_3 , b_4 , 5316.8 , and 4924.1 .— $10^{\text{h}} 1^{\text{m}}$.

KODAIKANAL,
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