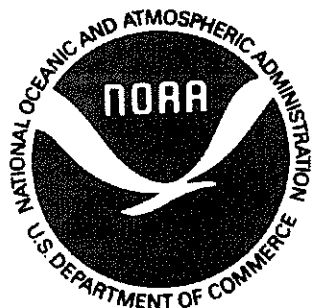




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Number 621

(Issued in Two Parts)

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Nov 95

H α SOLAR FLARES

NOVEMBER 1995

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	CMP	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
								USAF Region								Mo	Day	
		01	1547		1559		No Flare Patrol											
		01	2144		2230		No Flare Patrol											
		02	1026		1027		No Flare Patrol											
		02	1032		1040		No Flare Patrol											
		02	1447		1452		No Flare Patrol											
		02	2036		2039		No Flare Patrol											
		02	2126		2135		No Flare Patrol											
		02	2150		2211		No Flare Patrol											
		03	1016		1037		No Flare Patrol											
		03	1046		1153		No Flare Patrol											
		03	1420		1425		No Flare Patrol											
		04	1520		1524		No Flare Patrol											
		05	1501		1528		No Flare Patrol											
		05	1551		1638		No Flare Patrol											
		05	1944		2229		No Flare Patrol											
		05	2301		2350		No Flare Patrol											
		06	0524		0547		No Flare Patrol											
		06	0714		0720		No Flare Patrol											
		06	1526		1613		No Flare Patrol											
		06	1642		1701		No Flare Patrol											
		06	2026		2244		No Flare Patrol											
		07	0504		0515		No Flare Patrol											
		07	0549		0729		No Flare Patrol											
		08	0607		0619		No Flare Patrol											
		08	1625		1643		No Flare Patrol											
0001	KHAR	09	0940U	0940U	0947	S02	E85 7924	11	15.7	7U	SF	2	V					D
0002	KHAR	09	1005	1006	1011	S02	E85 7924	11	15.8	6	SF	2	V					D
0003	KANZ	09	1031	1035	1047	S09	W35	11	6.8	16	SF	2	C					
0004		09	12105	12164	1252	S09	E36 7921	11	12.2	42	SF B 1.1				18	0.8	EF	
	MEUD	09	1210	1220	1254	S09	E38 7921	11	12.3	44	SF		C			0.8	E	
	RAMY	09	1215	1216	1250	S09	E34 7921	11	12.1	35	SF B 1.1	3	E		22			
	SVTO	09	1216E	1220U	1225D	S08	E35 7921	11	12.1	90	SF	3	E		14			F
0005		09	13143	13171	1343	S09	E36 7921	11	12.2	29	SF				13	0.5	E	
	MEUD	09	1314	1317	1350	S09	E38 7921	11	12.4	36	SF		C			0.5	E	
	RAMY	09	1317	1318	1336	S09	E34 7921	11	12.1	19	SF	3	E		13			
0006	HOLL	09	2109	2114	2119	S09	E28 7921	11	12.0	10	SF B 1.8	3	E		13			
0007	LEAR	10	0343	0346	0420	S09	E26 7921	11	12.1	37	SF C 2.1	3	E		61			Z
0008	RAMY	10	1652	1652	1705	S08	E20 7921	11	12.2	13	SF B 1.0	3	E		19			
		12	2306		2310		No Flare Patrol											
		12	2318		2322		No Flare Patrol											
		13	0119		0209		No Flare Patrol											
		13	1038		1043		No Flare Patrol											
		14	1024		1042		No Flare Patrol											
		15	1022		1046		No Flare Patrol											
		16	1034		1055		No Flare Patrol											
		16	1107		1124		No Flare Patrol											
		16	1136		1223		No Flare Patrol											
		16	1241		1415		No Flare Patrol											
0009	HOLL	16	2146	2154	2202	N05	E75 7926	11	22.5	16	SF C 8.7	3	E		56			H
0010	HOLL	16	2227	2227	2231	N08	E64 7926	11	21.7	4	SF B 7.8	3	E		13			
		17	1021		1136		No Flare Patrol											
		17	1151		1232		No Flare Patrol											
		17	1319		1327		No Flare Patrol											
		17	1329		1331		No Flare Patrol											
0011	HOLL	18	2042	2042	2049	S05	E06 7925	11	19.3	7	SF B 1.0	3	E		11			
		19	1021		1059		No Flare Patrol											

NOVEMBER 1995

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
			19 1111		1118	No Flare	Patrol												
			19 1149		1208	No Flare	Patrol												
			19 1247		1333	No Flare	Patrol												
			21 0038		0047	No Flare	Patrol												
			21 0515		0520	No Flare	Patrol												
			21 2337		2400	No Flare	Patrol												
			22 0000		0102	No Flare	Patrol												
			22 0156		0209	No Flare	Patrol												
			22 0224		0247	No Flare	Patrol												
			22 0430		0610	No Flare	Patrol												
0012	KANZ	22	1304	1305	1313	N10 W02	7926	11	22.4		9	SF		2	C				
			22 1745		1749	No Flare	Patrol												
			22 1859		1909	No Flare	Patrol												
			23 1052		1059	No Flare	Patrol												
			24 0142		0151	No Flare	Patrol												
			24 0222		0228	No Flare	Patrol												
			24 1342		1348	No Flare	Patrol												
			24 1350		1404	No Flare	Patrol												
			24 2236		2245	No Flare	Patrol												
			26 1703		1724	No Flare	Patrol												
			26 1956		2015	No Flare	Patrol												
			27 1028		1113	No Flare	Patrol												
			27 1347		1400	No Flare	Patrol												
			27 1402		1405	No Flare	Patrol												
			28 1034		1056	No Flare	Patrol												
0013	RAMY	28	1346	1352	1423	N08 E31	7929	11	30.9		37	SF B	8.1	3	E		23		F
0014	HOLL	28	1401E	1402U	1433D	N08 E31	7929	11	30.9		32D	SF B	3.0	1	E		20		
			30 1039		1053	No Flare	Patrol												

"Remarks"

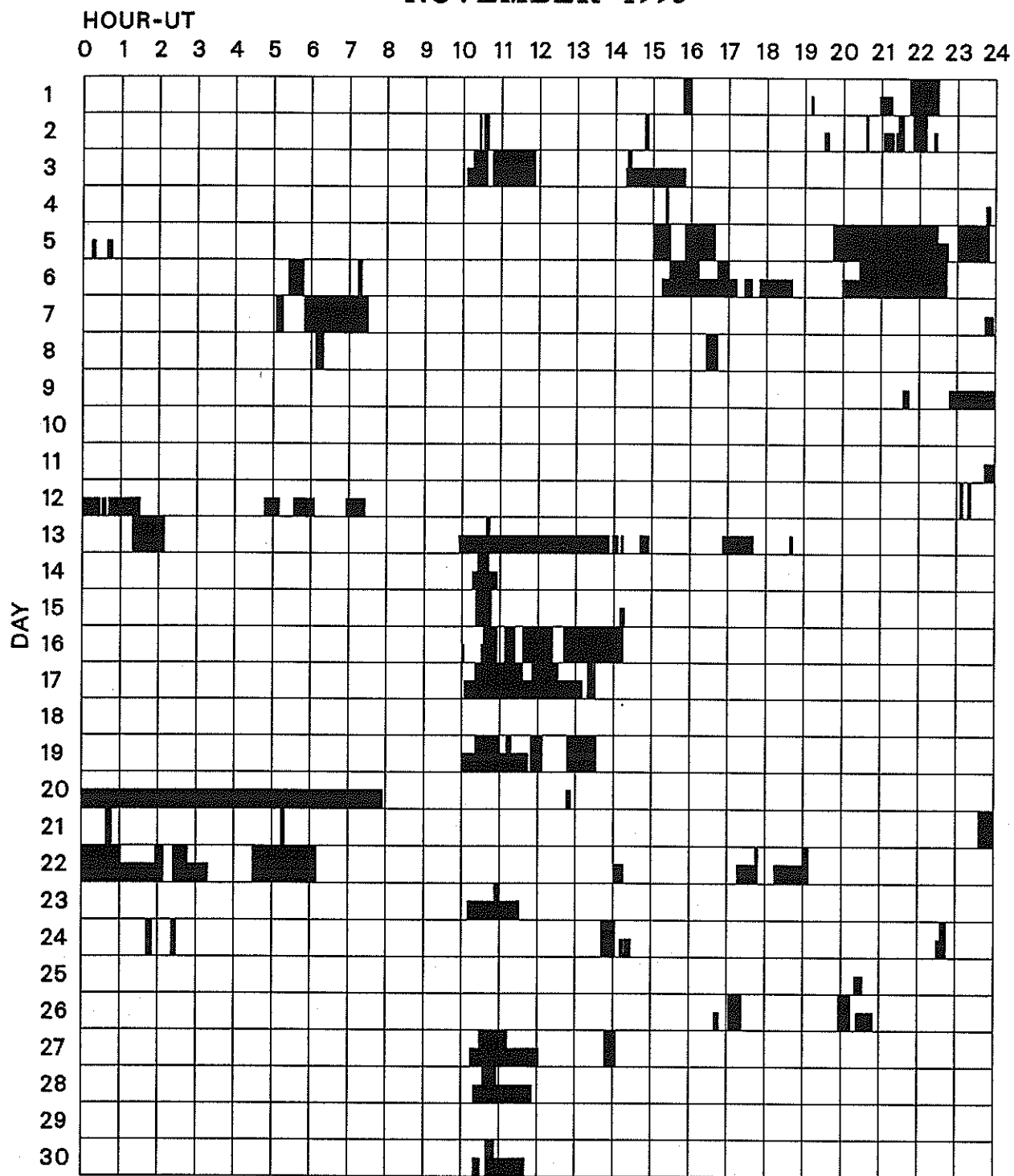
A = Eruptive prominence whose base is less than 90 degrees from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by high-speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.
 N = Continuous spectrum shows effects of polarization.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows Helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
 S = Brightness follows disappearance of filament in same position.
 T = Region active all day.
 U = Two bright branches, parallel or converging.
 V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H-alpha line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

Observation Type: C=Cinematographic, E=Electronic, P=Photographic, V=Visual

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 1995



Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual nor cinematographic); portions of a panel with only the bottom half shaded mark times of only visual patrol.

Bucharest
Holloman
Hurbanovo

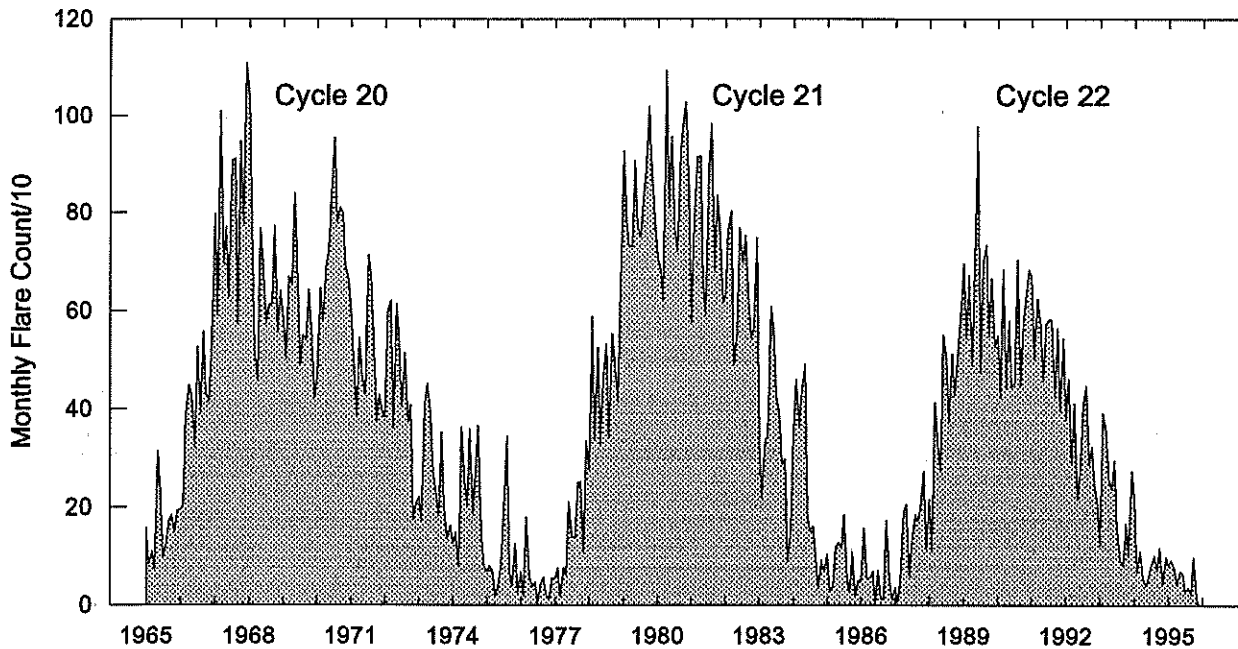
Istanbul
Kanzelhoehe
Kharkov

Learmonth
Meudon
Mitaka

Palehua
Ramey
San Vito
Urumqi

Monthly Counts of Grouped Solar Flares Jan 1965 - Nov 1995

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Nov 95



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14		633

The term 'grouped' means observations of the same event by different sites were lumped together and counted as one.

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Nov 95

SOLAR RADIO EMISSION Selected Fixed Frequency Events

NOVEMBER 1995

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
07	127 TORN	47 GB	0643.2	0645.2	4.4	20.0D	6.0D		
10	2800 HIRA	20 GRF	0341.7	0344.5	65.0	5.0	3.0	0	
	500 HIRA	8 S	0345.5	0345.7	0.4	2.0		0	
	500 HIRA	8 S	0348.3	0348.3	0.2	3.0		0	
11	8800 SGMR	8 S	1624.0	1625.0	1.0	170.0			QL=4 ST=2 TYP=3
14	245 LEAR	8 S	0658.0	0658.0	1.0	52.0			QL=2 ST=2 TYP=3
16	6700 CUBA	1 S	1611.0	1612.3	2.0	8.0	4.0		OOL
	500 HIRA	46 C	2151.0U	2152.5	3.0U	14.0	9.0		WR, SUNRISE
17	245 LEAR	8 S	0458.0	0458.0	U	63.0			QL=2 ST=2 TYP=3
	204 IZMI	42 SER	0704.0	0704.8	30.0	57.0			
	204 IZMI	41 F	0916.5	0917.0	3.0	17.0			
	204 IZMI	7 C	0927.0	0927.3	0.5	79.0	40.0		
	200 HIRA	42 SER	2259.2	2259.5	2.0	18.0	6.0	0	
18	200 HIRA	46 C	0101.0	0101.8	2.0	20.0	5.0	0	
20	204 IZMI	41 F	0943.0	0943.2	0.5	105.0			
21	204 IZMI	7 C	0733.0	0734.0	1.0	115.0			
22	204 IZMI	7 C	0804.0	0804.5	0.5	64.0			
23	204 IZMI	41 F	0933.0	0934.0	1.0	310.0			
	204 IZMI	7 C	1023.0	1023.1	0.2	55.0			
28	204 IZMI	41 F	0936.5	0936.6	0.4	63.0			
	410 SGMR	8 S	1346.0	1346.0	U	51.0			QL=4 ST=2 TYP=3
	410 SGMR	8 S	1405.0	1405.0	1.0	65.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1405.0	1405.0	1.0	120.0			QL=4 ST=2 TYP=3
	610 SGMR	8 S	1405.0	1405.0	1.0	39.0			QL=4 ST=2 TYP=3
	245 SVTO	8 S	1405.0	1405.0	1.0	120.0			QL=4 ST=3 TYP=3
	410 SVTO	8 S	1405.0	1405.0	U	83.0			QL=4 ST=3 TYP=3
29	410 SGMR	8 S	1557.0	1557.0	U	85.0			QL=4 ST=2 TYP=3
	245 SGMR	8 S	1617.0	1618.0	1.0	60.0			QL=4 ST=2 TYP=3
30	204 IZMI	43 NS	0700.0		300.0D		5.0		
	204 IZMI	42 SER	0833.0	0833.4	2.0	200.0			
	204 IZMI	41 F	1046.0	1046.7	1.0	180.0			

Reports are received routinely from the following observatories:

LEAR = Learmonth

PALE = Palehua

SGMR = Sagamore Hill

SVTO = San Vito

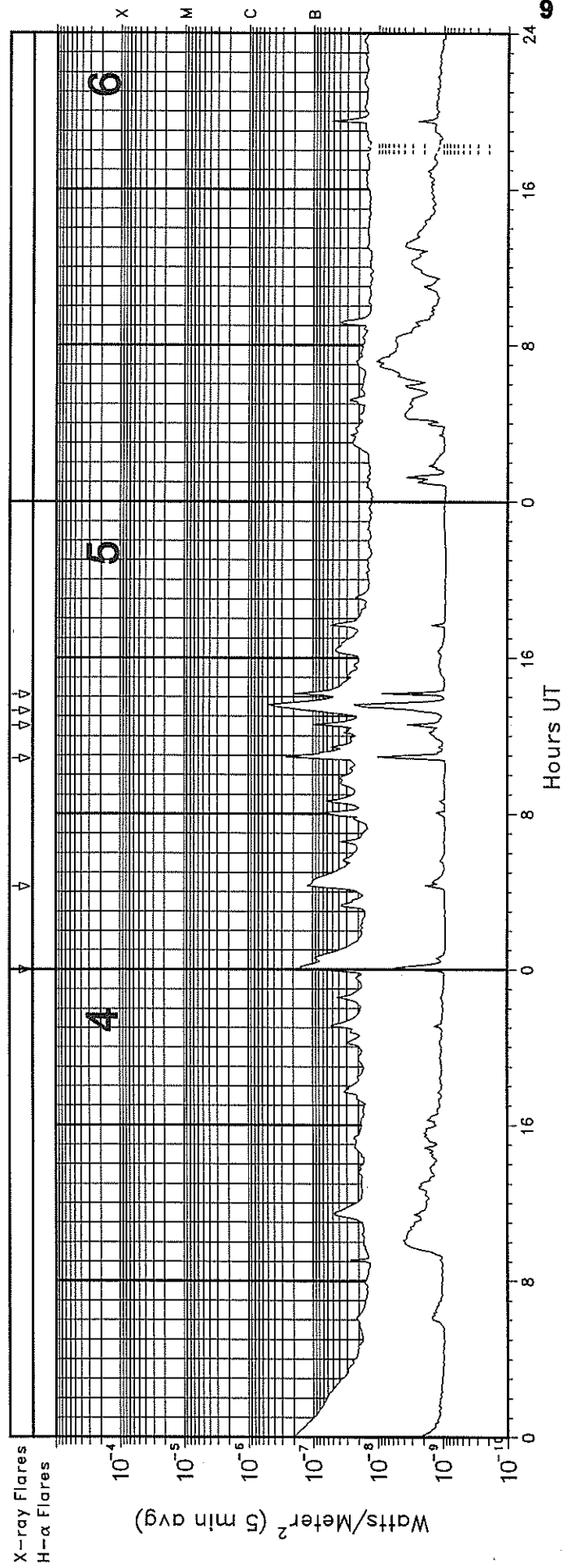
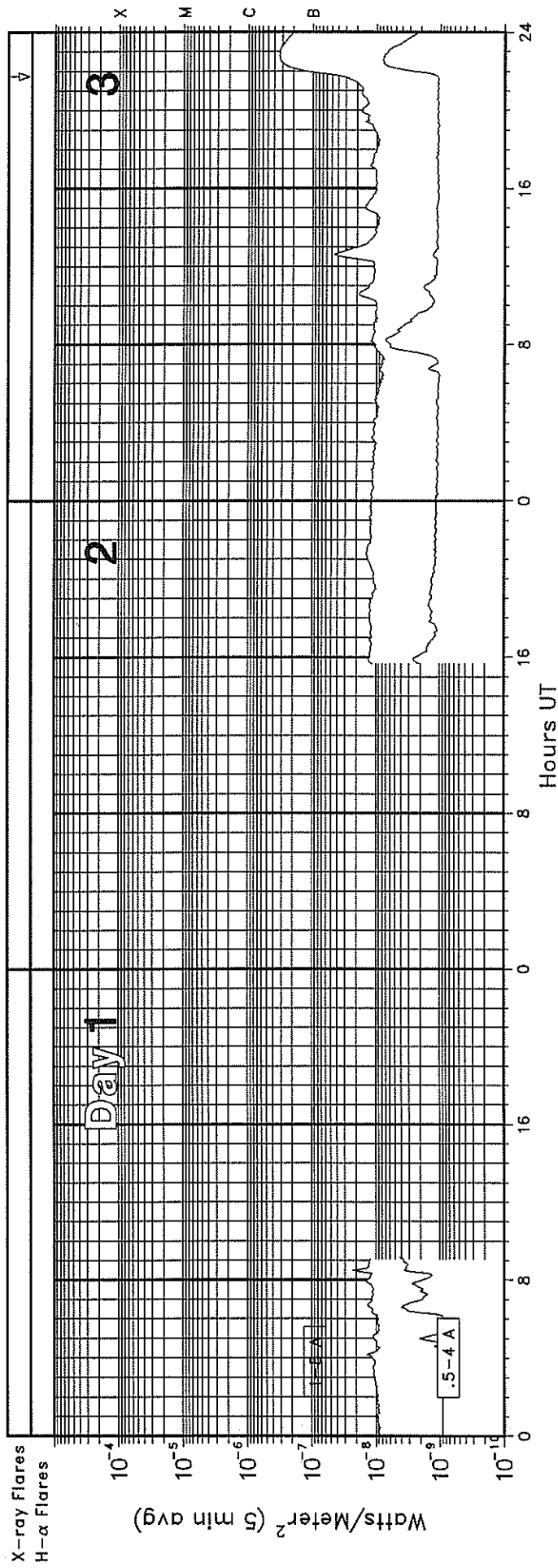
Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A	

RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; Hiraiso, Japan 500 and 200 MHz; and Toyokawa, Japan 9400, 3750, 2000 and 1000 MHz.

GOES-7 X-RAY DETECTOR

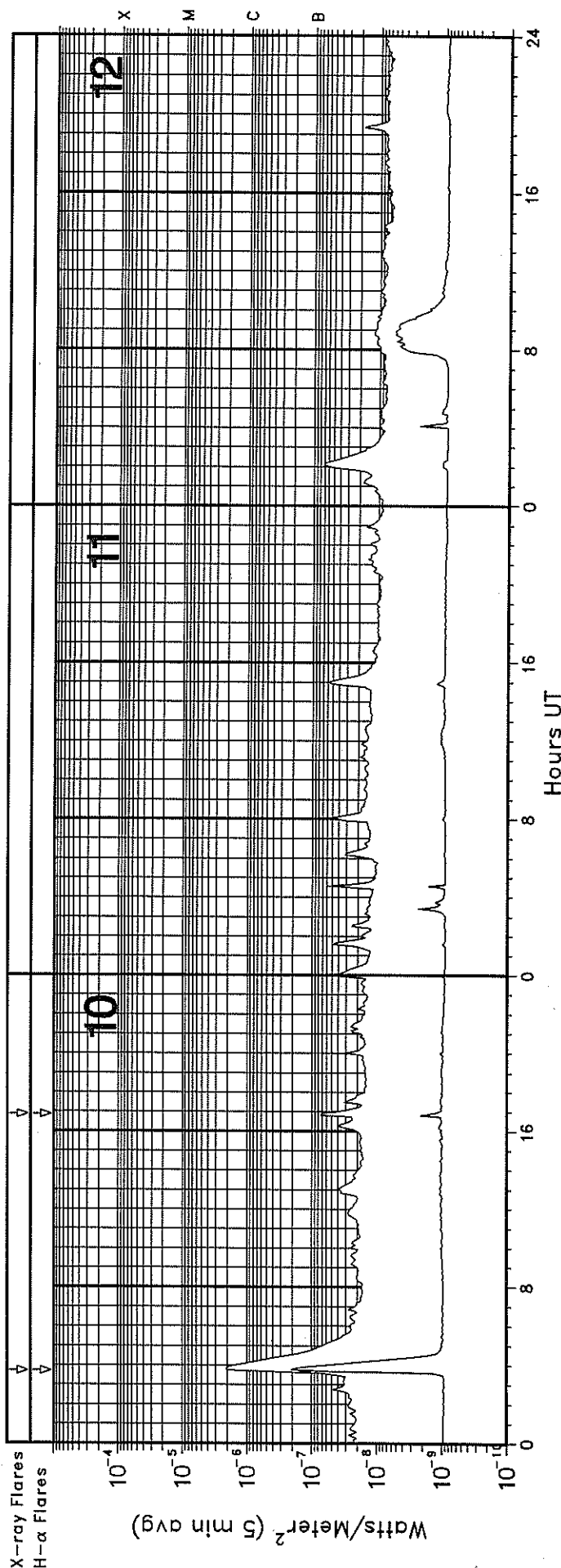
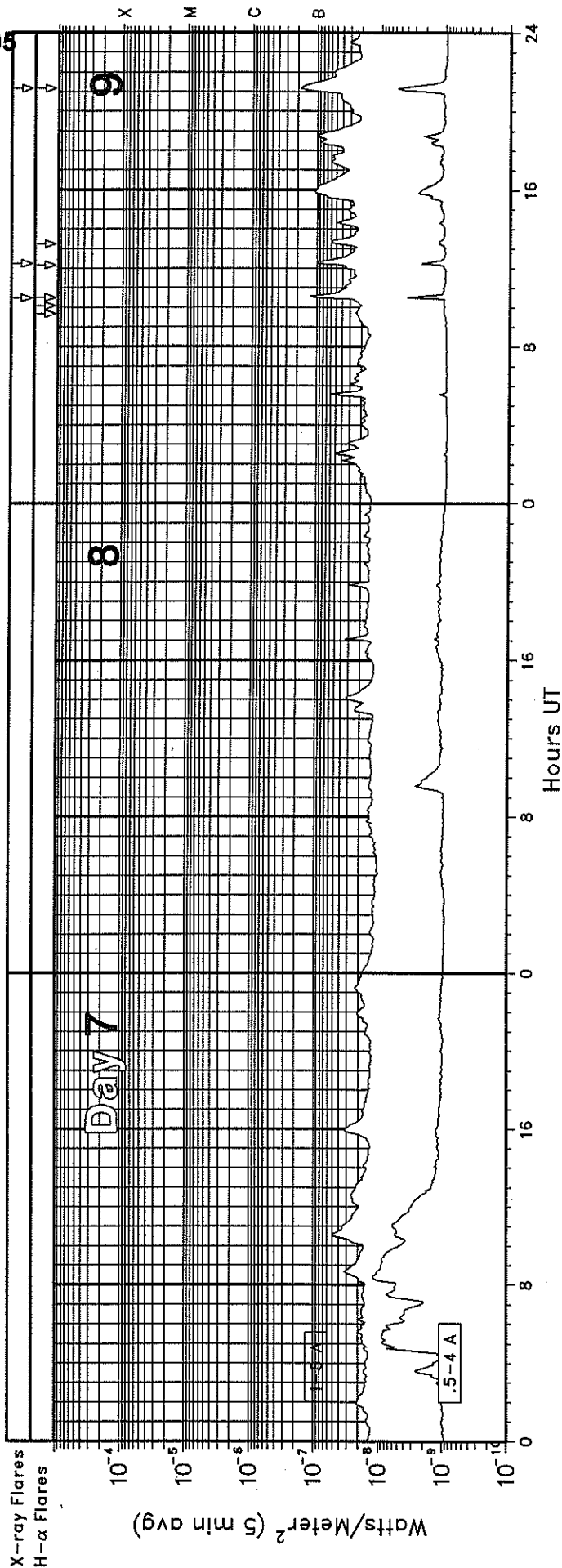
November 1995



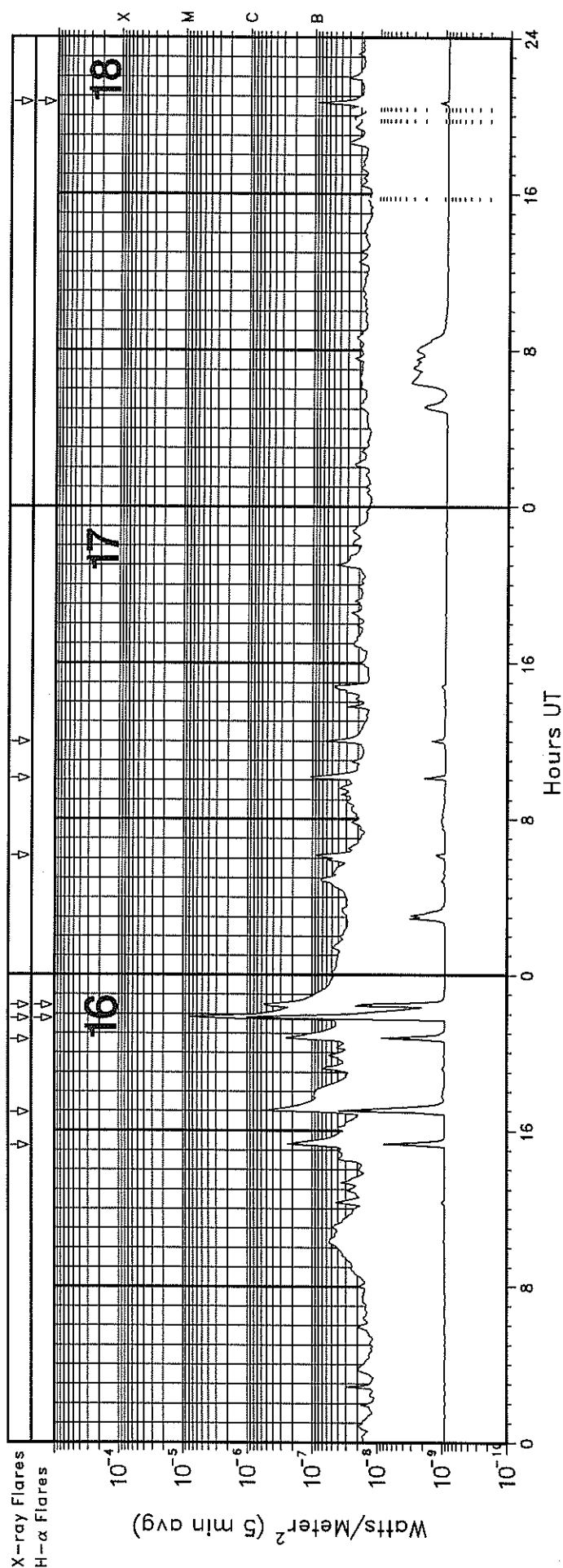
GOES-7 X-RAY DETECTOR

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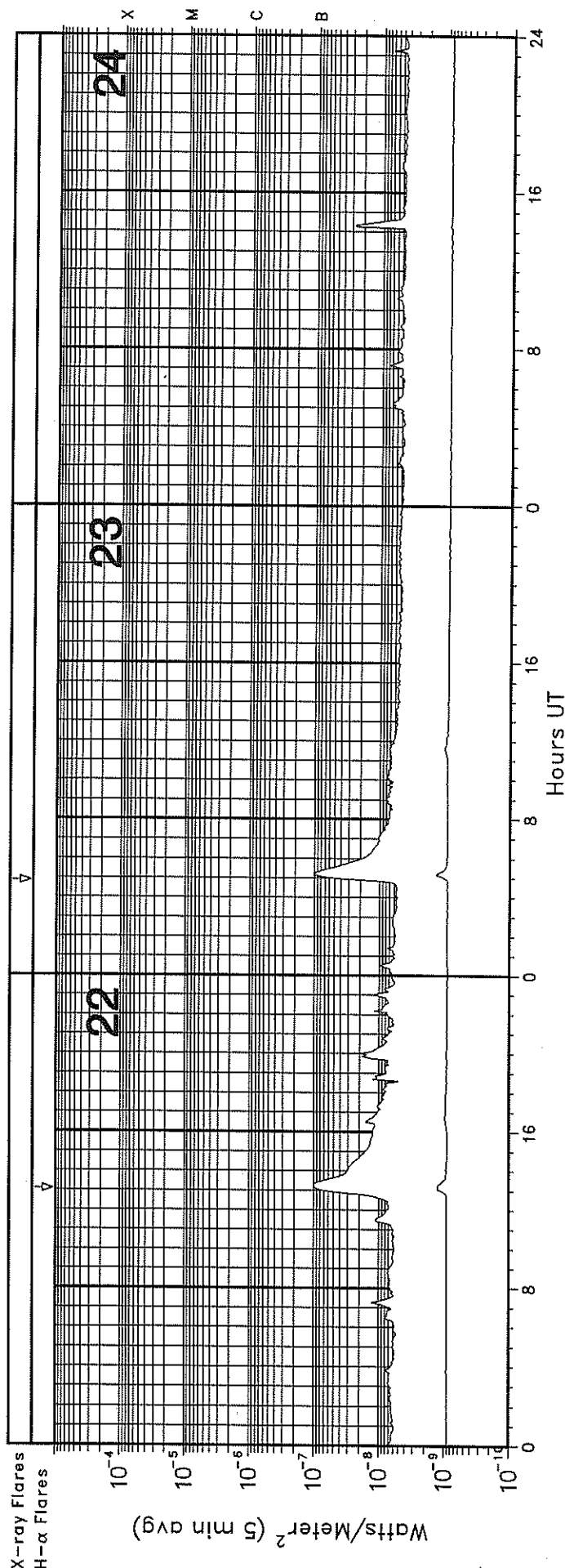
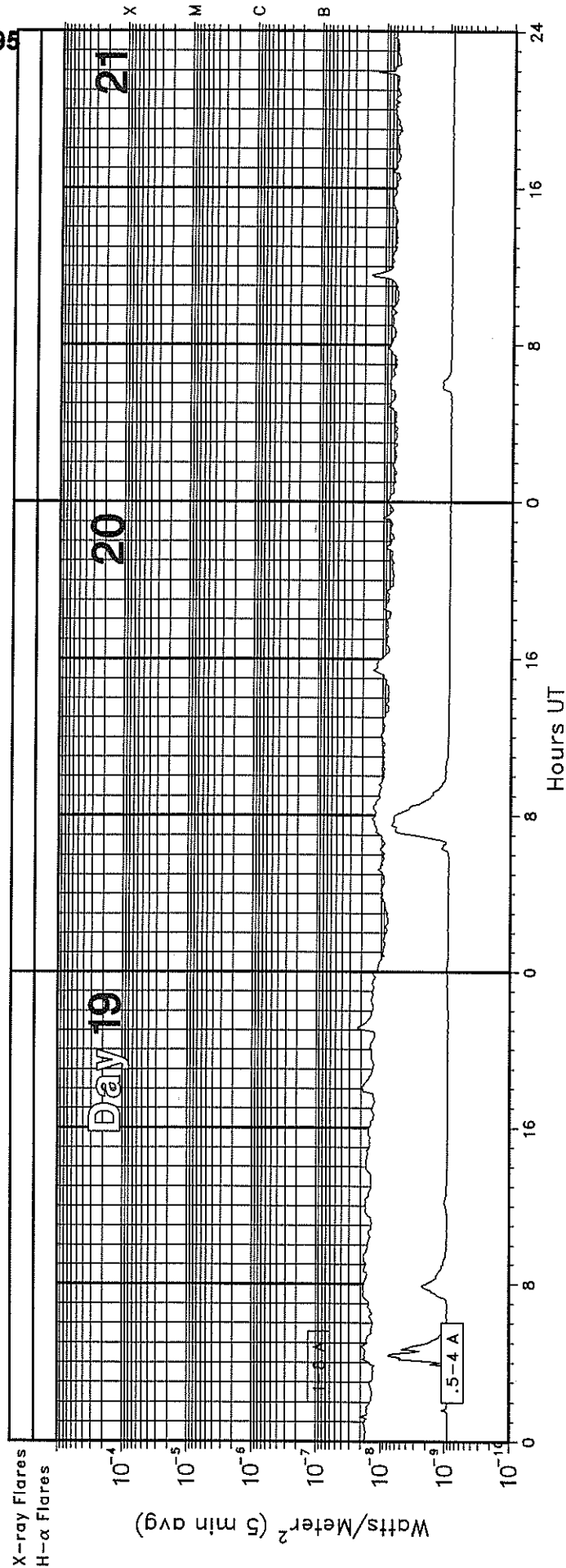
November 1995



GOES-7 X-RAY DETECTOR

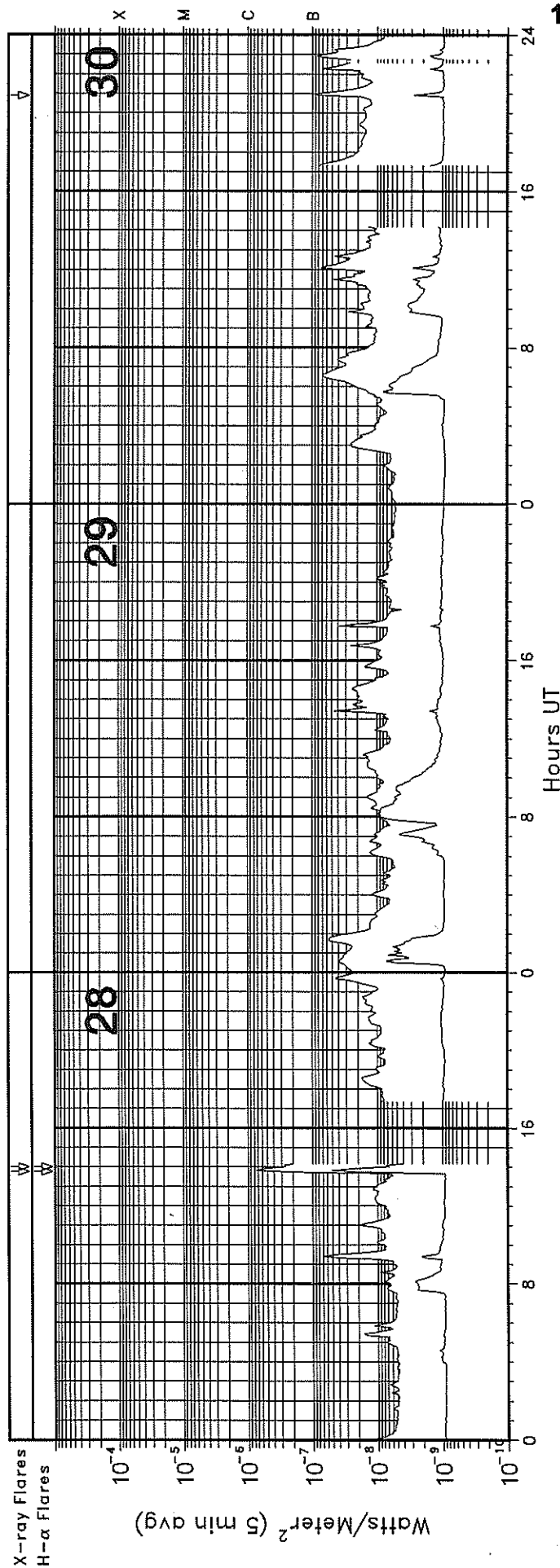
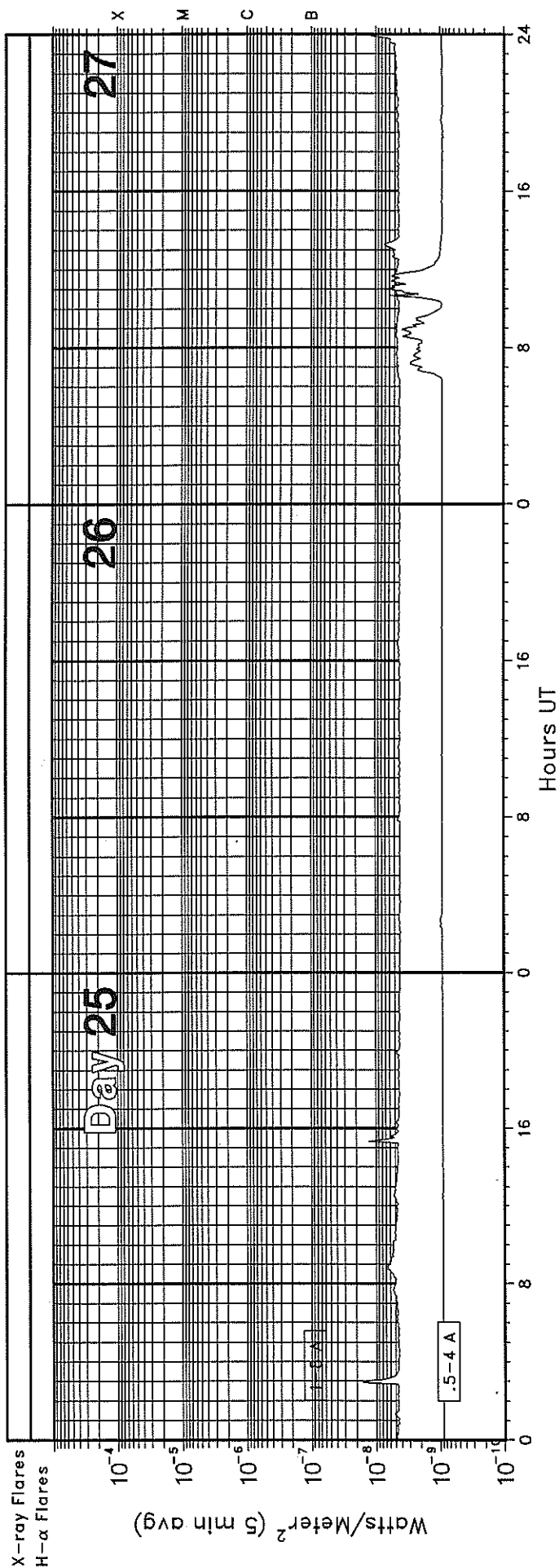
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GOES-7 X-RAY DETECTOR

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GOES SOLAR X-RAY FLARES
Preliminary Listing

November 1995

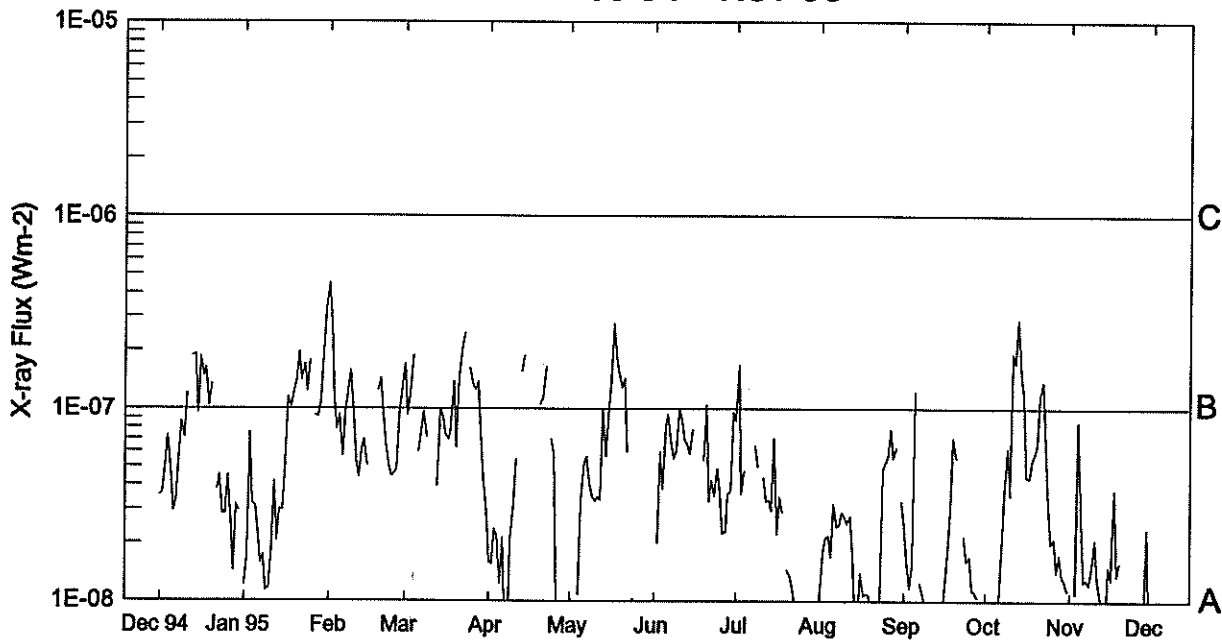
Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
03	2145	2241	0122			B3.3	
04	2359	0008	0017			B1.6	
05	0416	0421	0443			B1.2	
05	1050	1058	1102			B3.0	
05	1232	1236	1241			B1.0	
05	1316	1336	1342			B5.3	
05	1407	1412	1415			B2.8	
09	1029	1034	1039			B1.6	
09	1215	1216	1250	S09 E34	SF	B1.1	7921
09	2109	2114	2119	S09 E28	SF	B1.8	7921
10	0343	0346	0420	S09 E26	SF	C2.1	7921
10	1652	1652	1705	S08 E20	SF	B1.0	7921
16	1515	1522	1526			B2.6	

Start Day (UT)	Max (UT)	End (UT)	Lat	CMD	Imp Opt	Xray	NOAA/ USAF Region
16	1656	1701	1708			B6.9	
16	2040	2047	2053			B2.7	
16	2146	2154	2202	N05 E75	SF	C8.7	7926
16	2227	2227	2231	N08 E64	SF	B7.8	7926
17	0607	0610	0613			B1.1	
17	1005	1009	1014			B1.3	
17	1158	1201	1203			B1.0	
18	2042	2042	2049	S05 E06	SF	B1.0	7925
23	0452	0515	0538			B1.0	
28	1346	1352	1423	N08 E31	SF	B8.1	7929
28	1401E	1402U	1433D	N08 E31	SF	B3.0	7929
30	2054	2057	2104			B1.4	

EDITOR's NOTE: Please note that whenever optical flares are given, the times given are times of the optical flares and not the times of the X-ray flares. These data are taken directly from the NOAA SEC "Preliminary Report and Forecast of Solar Geophysical Data" weekly report.

Preliminary GOES Satellite Daily X-Ray Background Dec 94 - Nov 95

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Day	Dec 94	Jan 95	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	A3.5	A1.2	B4.4	B1.7	A1.5	<A1.0	---	A8.6	A1.5	A2.4	---	---
2	A3.6	A1.6	B2.6	A9.3	A1.5	<A1.0	A1.9	B1.6	A2.9	A1.6	<A1.0	---
3	A5.0	A7.4	B1.1	B1.1	A2.3	---	A5.9	A3.6	A2.7	A1.1	<A1.0	A.0
4	A7.2	A3.2	A7.8	B1.9	A2.1	A1.0	A3.8	A4.7	A2.4	A1.5	<A1.0	A8.5
5	A4.7	A3.1	A9.3	---	B1.2	A3.2	A8.2	---	A3.4	B1.2	<A1.0	A2.6
6	A2.9	A2.2	A5.6	A5.9	B2.1	A5.2	A9.3	---	A3.4	---	<A1.0	A1.2
7	A3.3	A1.5	A9.7	A7.6	<A1.0	A5.6	A6.7	---	A1.9	A1.2	A1.8	A1.2
8	A5.5	A1.7	B1.2	A9.7	<A1.0	A4.1	A5.5	A6.4	A1.8	A1.0	A3.6	A1.2
9	A8.5	A1.1	B1.5	A7.1	A2.0	A3.5	A5.9	A4.9	A2.2	<A1.0	A6.2	A1.5
10	A7.0	A1.1	A9.4	---	A3.1	A3.2	A9.8	---	A3.7	---	A3.5	A2.0
11	B1.2	A1.8	A5.3	A8.5	A5.4	A3.4	A8.8	A4.3	A3.0	---	B1.9	A1.2
12	---	A4.1	A4.3	---	---	A3.3	A6.9	A3.2	A6.9	<A1.0	B1.7	A1.0
13	B1.8	A2.0	A6.0	A3.9	B1.5	A9.9	A6.5	A3.3	B1.3	<A1.0	B2.9	<A1.0
14	B1.9	A3.0	A6.9	A9.9	B1.9	A5.6	A5.8	A2.9	A8.6	<A1.0	B1.5	<A1.0
15	A9.5	A2.9	A5.0	A9.1	---	A9.3	A7.8	A7.0	A7.1	<A1.0	B1.1	A1.4
16	B1.8	A5.1	---	A7.3	---	B1.3	---	A2.2	A4.8	A1.0	A4.3	A1.2
17	B1.4	B1.1	A5.5	A6.9	---	B2.7	---	A3.4	A4.0	A1.7	A4.3	A3.7
18	B1.6	B1.0	---	A7.7	---	B1.8	---	A2.8	A4.9	A2.9	A5.3	A1.3
19	B1.0	B1.2	B1.2	B1.3	---	B1.4	A5.4	---	A5.6	A7.0	A5.7	A1.5
20	B1.3	B1.3	B1.4	A6.2	B1.0	B1.2	B1.0	A1.4	A3.0	A5.4	A6.4	---
21	---	B1.9	A9.5	B1.4	B1.1	B1.4	A3.2	A1.3	A2.0	---	B1.1	<A1.0
22	A3.7	B1.4	A6.5	B2.0	B1.6	A5.9	A4.2	A1.1	A1.0	---	B1.3	<A1.0
23	A4.4	B1.7	A5.0	B2.4	---	---	A3.4	<A1.0	<A1.0	A2.1	A6.4	<A1.0
24	A2.8	B1.2	A4.4	---	A6.9	A1.0	A4.8	<A1.0	A1.1	A1.5	A3.1	<A1.0
25	A2.8	B1.7	A4.5	B1.6	A5.6	<A1.0	A3.6	<A1.0	<A1.0	A1.6	A1.9	<A1.0
26	A4.4	---	A4.8	B1.3	<A1.0	<A1.0	A2.2	<A1.0	<A1.0	A1.1	A2.0	<A1.0
27	A2.6	A9.2	A9.4	B1.2	<A1.0	---	A2.2	<A1.0	<A1.0	A1.1	A1.4	<A1.0
28	A1.4	A9.1	B1.3	B1.3	<A1.0	<A1.0	A3.5	<A1.0	A1.2	A1.0	A1.7	<A1.0
29	A3.1	B1.0	---	A7.4	<A1.0	<A1.0	A3.7	<A1.0	B1.7	---	A1.3	A2.3
30	A2.9	B1.9	---	A4.3	<A1.0	<A1.0	A9.6	---	B4.3	---	A1.2	<A1.0
31	---	B3.3	---	A2.8	---	<A1.0	---	<A1.0	B1.9	---	A1.1	---

NOTE: Background levels below B1.0 are unreliable.

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ACTIVE PROMINENCES AND FILAMENTS

NOVEMBER 1995

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
01	BSL	0817	0839	N17	W90	10 25.6	1-				C	CATA		
01	BSL	0833	0846D	N66	W90	10 24.4	1-				C	CATA		
01	BSL	1015	1022	N65	W90	10 24.5	1-				C	CATA		
02	BSL	0811	0820	N42	W90	10 26.0	1-				C	CATA		
02	BSL	1045	1045D	N53	W90	10 25.8	1-				C	CATA		
02	DSD	1123E	1613D	S18	E24	11 4.3		01	9	9	E	RAMY		
02	AFS	1123E	2101	S17	E24	11 4.3		01	9	9	E	RAMY		
02	AFS	1520E	1921	S14	E10	11 3.4		01	8	8	E	HOLL	7920	
02	DSD	1520E	2222	S13	E11	11 3.5		01	7	6	E	HOLL	7920	
02	AFS	1710E	0015D	S13	E11	11 3.5		02	9	9	E	PALE	7920	
02	ADF	1713E	0015D	N06	E26	11 4.7	1	03	9	9	E	PALE		
02	DSF	2249U	1506U	S34	W26	10 31.9	2	06	0	0	E	HOLL		
03	BSL	1200	1210	N44	W90	10 27.1	1-				C	CATA		
03	DSF	2249U	1506U	S34	W26	11 1.9	2	06	0	0	E	HOLL		
04	BSL	0755	0812	S16	E90	11 11.1	1				C	CATA		
04	BSL	0755	0812D	S13	E90	11 11.1	1-				C	CATA		
04	BSL	0907	0921	N04	E90	11 11.1	1-				C	CATA		
04	BSL	0913E	0921	N75	W90	10 27.2	1-				C	CATA		
04	BSL	0921	0921D	S30	E90	11 11.5	1-				C	CATA		
04	BSL	0931E	0931D	S30	E90	11 11.5	1-				C	CATA		
04	DSD	1000E	1405D	S15	W11	11 3.6		02	9	9	E	SVTO	7920	
04	BSL	1001E	1004D	S22	E90	11 11.3	1-				C	CATA		
04	BSL	1001E	1004D	S29	E90	11 11.5	1-				C	CATA		
04	BSL	1016E	1023D	N12	E90	11 11.2	1-				C	CATA		
04	BSL	1016E	1023D	S22	E90	11 11.3	1-				C	CATA		
04	BSL	1016E	1023D	S30	E90	11 11.5	1				C	CATA		
04	BSL	1110E	1131D	S20	E90	11 11.3	1-				C	CATA		
04	BSL	1142E	1209D	S20	E90	11 11.4	1-				C	CATA		
04	BSL	1219E	1219D	S78	W90	10 27.3	1-				C	CATA		
04	BSL	1238	1241D	N41	W90	10 28.3	1-				C	CATA		
05	BSL	0851E	0851D	N53	E90	11 13.1	1-				C	CATA		
05	BSL	0851E	0851D	S10	E90	11 12.1	1-				C	CATA		
05	BSL	0944E	0952	S88	W90	10 28.1	1-				C	CATA		
05	ASR	0958E	1215	S10	E90	11 12.2			9	9	E	SVTO		
05	BSL	1000	1011	N01	E90	11 12.1	1-				C	CATA		
05	BSL	1011	1011D	S14	E90	11 12.2	1-				C	CATA		
05	BSL	1135	1206D	S14	E90	11 12.3	1				C	CATA		
05	ASR	1202E	1215	S14	E90	11 12.3			9	9	E	SVTO		
05	BSL	1220E	1225D	S14	E90	11 12.3	1-				C	CATA		
05	ASR	1419E	1705D	S11	E90	11 12.4			9	9	E	RAMY		
05	ASR	1738E	1826D	S14	E90	11 12.5			9	9	E	RAMY		
05	ASR	1745E	1815D	S13	E90	11 12.5			9	9	E	PALE		
05	ADF	1757E	1943	N03	W09	11 5.1	1	04	6	7	E	RAMY		
07	BSL	0758	0814D	S14	W90	10 31.5	1-				C	CATA		
07	BSL	0856E	0910D	N47	W90	10 30.9	1-				C	CATA		
07	ADF	1110E	1852	S11	E32	11 9.9	1	05	8	7	E	RAMY		
07	BSL	1157E	1202	S72	E90	11 15.7	1-				C	CATA		
07	ADF	1346E	1852	S12	E43	11 10.8	1	09	8	8	E	RAMY		
07	ADF	1401E	2358	S10	E29	11 9.8	1	06	9	7	E	HOLL		
07	ADF	1401E	2358	S43	W18	11 6.1	1	12	4	5	E	HOLL		
07	DSD	1420E	1852	S14	W59	11 3.1		01	9	9	E	RAMY	7920	
07	ADF	1715E	0238	S11	E63	11 12.4	1	03	9	9	E	PALE	7921	
07	ADF	1716E	0238	N07	W43	11 4.5	1	04	9	9	E	PALE		
07	AFS	1718E	0238	S14	W58	11 3.3		02	9	9	E	PALE	7920	
07	DSF	1851U	1240U	S48	W25	11 5.7	2	10	0	0	E	RAMY		
07	ADF	1920E	0238	S15	E37	11 10.6	1	03	9	9	E	PALE		
07	DSF	2342U	1451U	S42	W21	11 6.3	2	09	0	0	E	HOLL		
08	DSF	0238U	1451U	S18	W45	11 4.7	2	08	0	0	E	PALE		
08	AFS	0920E	1100D	S13	W69	11 3.2		02	9	9	E	SVTO	7920	
08	DSD	0948E	1225D	S10	E52	11 12.3		03	9	9	E	SVTO	7921	
08	BSL	0952	1006D	S73	W90	10 31.2	1-				C	CATA		
08	BSL	1001	1006D	S71	E90	11 16.6	1-				C	CATA		
08	ADF	1050E	1323D	S08	E47	11 12.0	1	03	9	9	E	SVTO	7921	
08	DSF	1230U	1324U	S53	W44	11 4.7	2	13	0	0	E	SVTO		

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
08	AFS	1233E	1923	S21	E34	11 11.1		02	9	9	E	RAMY		
08	DSF	1241U	0748U	S48	W22	11 6.7	1				C	CATA		
08	ASR	1311E	1612D	N06	E90	11 15.3			9	9	E	RAMY		
08	ADF	1612E	1923	S02	E18	11 10.0	1	03	9	9	E	RAMY		
09	ADF	0145E	1018	S17	E08	11 9.7	1	10	9	9	E	LEAR	7922	
09	ADF	0645E	1300D	S09	E06	11 9.7	1	06	9	9	E	SVTO	7922	
09	AFS	0740E	1456	S09	E37	11 12.1		02	9	9	E	SVTO	7921	
09	ADF	0804E	1018	N08	W67	11 4.3	1	08	4	8	E	LEAR		
09	ADF	0808E	1300D	N04	W56	11 5.1	1	10	6	6	E	SVTO		
09	ASR	0855E	1130D	S15	W89	11 2.6			5	5	E	SVTO	7920	
09	DSD	0855E	1312D	S06	W33	11 6.9		03	9	9	E	SVTO	7921	
09	ADF	1100E	1911	S12	E16	11 10.7	1	06	9	9	E	RAMY	7923	
09	DSD	1105E	1911	S09	E35	11 12.1		01	9	9	E	RAMY	7921	
09	ASR	1115E	1529D	S12	W90	11 2.7			9	9	E	RAMY	7920	
09	AFS	1138E	1911	S17	E21	11 11.1		01	6	7	E	RAMY	7923	
09	AFS	1139E	1911	S09	E34	11 12.0		01	9	9	E	RAMY	7921	
09	ADF	1439	2247	S10	E02	11 9.8		03	9	9	E	HOLL	7922	
09	ASR	1735E	1815D	S15	W90	11 2.9			9	9	E	RAMY	7920	
09	AFS	1746E	2109D	S09	E30	11 12.0		02	9	9	E	HOLL	7921	
09	ASR	2013E	2247	S12	W90	11 3.1			9	9	E	HOLL	7920	
10	AFS	0225E	1017	S10	E24	11 11.9		02	6	7	E	LEAR	7921	
10	AFS	0520E	0700D	N05	E24	11 12.0		01	9	5	E	LEAR		
10	AFS	0715E	1419	N06	E23	11 12.0		02	6	7	E	SVTO		
10	AFS	0806E	1419	S10	E22	11 12.0		02	9	9	E	SVTO	7921	
10	ADF	1124E	2000D	S06	W13	11 9.5	1	11	8	7	E	RAMY	7922	
10	AFS	1310E	1640D	S11	E19	11 12.0		01	9	9	E	RAMY	7921	
10	DSD	1356E	1521D	S10	E19	11 12.0		01	9	9	E	RAMY	7921	
10	ADF	1715E	0026D	S10	E18	11 12.1	1	02	9	9	E	PALE	7921	
10	ADF	1720E	0026	S10	W12	11 9.8	1	06	9	9	E	PALE	7922	
10	DSF	2046U	1129U	S07	W07	11 10.3	2	06	0	0	E	RAMY	7923	
10	DSF	2046U	1129U	S10	W06	11 10.4	2	03	0	0	E	RAMY	7923	
11	ADF	0001E	0530D	S07	E14	11 12.0	1	07	5	4	E	LEAR	7921	
11	ADF	0001E	0530D	S13	E13	11 12.0	1	08	5	4	E	LEAR	7921	
11	ADF	0634E	0650D	S15	W10	11 10.5	1	08	9	9	E	SVTO	7923	
11	DSF	0642U	0801U	S14	W11	11 10.4	2	08	0	0	E	LEAR	7923	
11	DSF	0650U	0756U	S15	W10	11 10.5	3	08	9	9	E	SVTO	7923	
11	BSL	0900	0900D	N83	E90	11 19.8	1-				C	CATA		
11	BSL	0900	0900D	S73	E90	11 19.6	1-				C	CATA		
11	AFS	1103E	2117	S16	W08	11 10.8		01	9	9	E	RAMY	7923	
11	AFS	1105E	1127	S15	E09	11 12.1		02	9	9	E	SVTO	7921	
11	DSD	1108E	1448D	S14	E09	11 12.1		01	9	9	E	RAMY	7921	
11	DSD	1325E	1448D	S09	E05	11 11.9		01	9	9	E	RAMY	7921	
11	DSD	1420E	2355	S13	E03	11 11.8		03	9	5	E	HOLL	7921	
11	ADF	1430E	2117	S07	E07	11 12.1	1	04	9	9	E	RAMY	7921	
11	BSD	1448E	1535D	S09	E07	11 12.1		01	4	6	E	RAMY	7921	
12	ADF	1459E	2036	S04	W46	11 9.2	1	04	9	9	E	RAMY		
12	AFS	1629E	2036	S07	E46	11 16.1		01	9	9	E	RAMY		
12	AFS	1730E	2030	S07	E45	11 16.1		01	9	9	E	PALE		
13	AFS	1100E	2135	N15	W31	11 11.1		01	8	8	E	RAMY	7923	
13	ADF	1416E	2337	S04	W64	11 8.8	1	08	6	5	E	HOLL		
13	DSD	1543	1559	S13	W40	11 10.6		01	0	0	E	HOLL	7923	
13	DSD	1637E	1921D	S10	W22	11 12.0		01	9	9	E	RAMY	7921	
13	ADF	1734E	2135	S05	W63	11 9.0	1	12	8	7	E	RAMY		
13	DSD	1907E	2135	N08	E26	11 15.7		01	9	9	E	RAMY		
13	DSF	2000U	0326	S04	W63	11 9.1	1	08	7	7	E	PALE		
14	AFS	0014E	0324	S08	E16	11 15.2		03	9	9	E	PALE		
14	BSL	0840E	0846	S62	E90	11 22.3	1-				C	CATA		
14	ADF	1103E	2039	S08	E21	11 16.0	1	04	9	9	E	RAMY		
14	DSD	1103E	2039	S08	E21	11 16.0		02	8	9	E	RAMY		
14	AFS	1140E	2039	S08	W29	11 12.3		01	9	7	E	RAMY	7921	
14	ADF	1725E	0324	S17	W35	11 12.1	1	04	9	9	E	PALE	7921	
14	DSD	1726E	2003D	S12	W38	11 11.9		03	9	9	E	PALE	7921	
14	ADF	1733E	0135D	S08	E20	11 16.2	1	04	9	9	E	PALE		
14	ADF	2335E	0825	S04	E17	11 16.2	1	04	9	9	E	LEAR		

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ACTIVE PROMINENCES AND FILAMENTS

NOVEMBER 1995

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
15	DSF	0001U	0825	S04	E17	11 16.3	2	04	0	0	E	LEAR		
15	BSL	0802E	0807	N01	W90	11 8.6	1-				C	CATA		
15	BSL	0919	0922D	S60	E90	11 23.3	1				C	CATA		
15	BSL	1052	1058	N29	E90	11 22.5	1-				C	CATA		
15	DSF	1118E	2003	S11	W46	11 12.0		03	7	8	E	RAMY	7921	
15	AFS	1120E	2003	S08	E06	11 15.9		01	7	7	E	RAMY	7924	
15	BSL	1139E	1146	S86	W90	11 7.1	1-				C	CATA		
15	BSL	1139E	1156	S55	E90	11 23.2	1-				C	CATA		
15	BSL	1139E	1201D	N11	W90	11 8.7	1				C	CATA		
15	BSL	1153E	1156	N64	W90	11 7.5	1-				C	CATA		
15	BSL	1222E	1245D	N11	W90	11 8.7	1				C	CATA		
15	AFS	1222E	1658D	S03	E53	11 19.5		01	8	8	E	RAMY		
15	AFS	1332E	2003	S12	W47	11 12.0		01	9	7	E	RAMY	7921	
15	DSF	1340E	1553D	S13	W49	11 11.9		01	9	9	E	RAMY	7921	
15	AFS	1418E	2352	S09	E03	11 15.8		02	5	4	E	HOLL	7924	
15	ADF	1427E	2003	S12	W43	11 12.4	1	04	9	9	E	RAMY	7921	
15	DSF	1430E	1658D	S02	E51	11 19.4		01	9	9	E	RAMY		
15	AFS	1730E	2029	S04	E51	11 19.5		02	9	9	E	PALE		
15	DSF	1735E	2029	S08	E09	11 16.4		02	9	9	E	PALE	7924	
15	AFS	1738E	2029	S08	E07	11 16.2		03	9	9	E	PALE	7924	
15	ADF	1740E	2029	S14	W46	11 12.2	1	04	9	9	E	PALE	7921	
15	DSF	1742E	2029	S10	W48	11 12.1		02	9	9	E	PALE	7921	
15	ASR	1747E	2352	N11	E90	11 22.5			0	0	E	HOLL		
15	APR	1750E	1818D	N10	E90	11 22.5	1		9	9	E	PALE		
15	DSF	1956U	1716U	S38	E66	11 21.2	2	14	0	0	E	RAMY		
15	DSF	2029U	1735U	S36	E65	11 21.1	2	23	0	0	E	PALE		
15	AFS	2200E	2352	N00	E29	11 18.1		01	9	9	E	HOLL		
15	BSD	2343E	1436D	S40	E39	11 19.2	2	23	0	0	E	HOLL		
16	ASR	0720	1000D	N05	E90	11 23.0			5	6	E	LEAR		
16	BSL	0732E	0745	N06	E90	11 23.0	1-				C	CATA		
16	BSL	1026	1030D	S62	E90	11 24.4	1-				C	CATA		
16	BSL	1056E	1106D	S50	E90	11 24.1	1-				C	CATA		
16	AFS	1355E	2350	S04	E35	11 19.2		01	6	7	E	HOLL	7925	
16	BSD	1517E	1537D	N07	E81	11 22.7		09	9	9	E	HOLL		
16	DSF	1537E	2350	N05	E75	11 22.3		03	9	9	E	HOLL	7926	
16	AFS	1701E	1743	S02	E36	11 19.4		01	9	9	E	RAMY	7925	
16	DSF	1710E	1743	S08	W08	11 16.1		01	9	9	E	RAMY	7924	
16	AFS	1714E	1743	S11	W57	11 12.4		01	9	9	E	RAMY	7921	
16	AFS	1755E	2108	S07	E37	11 19.5		01	9	9	E	PALE		
16	BSD	2147	2212	N05	E80	11 22.9		13	9	9	E	HOLL	7926	Flare Associated
16	BSL	2212	2227	N05	E80	11 22.9			9	9	E	HOLL	7926	Flare Associated
17	BSL	0931	0933D	S04	E90	11 24.1	1-				C	CATA		
17	DSF	1234E	1920D	S14	W72	11 12.1		01	9	9	E	RAMY	7921	
17	ADF	1254E	1500D	S11	W16	11 16.3	1	07	8	8	E	RAMY	7924	
17	AFS	1312E	2131	N06	E67	11 22.6		01	9	9	E	RAMY	7926	
17	DSF	1318E	1438D	N10	E64	11 22.4		01	9	9	E	RAMY	7926	
17	DSF	1332E	1500D	N00	E09	11 18.2		01	9	9	E	RAMY		
17	DSF	1332E	1500D	N00	E09	11 18.2		01	9	9	E	RAMY		
17	DSF	1535E	1715D	N07	E66	11 22.6		01	9	9	E	HOLL	7926	
17	AFS	1535E	1938D	N06	E64	11 22.4		01	9	9	E	HOLL	7926	
17	DSF	1746E	1818	N12	E62	11 22.4		04	9	9	E	HOLL		
17	DSF	1754E	1815D	N11	E58	11 22.1		05	9	9	E	RAMY	7926	
17	DSF	1754E	2131	N07	E63	11 22.5		02	9	9	E	RAMY	7926	
17	APR	1800E	1840D	N01	E90	11 24.5	1		9	9	E	PALE		
17	DSF	1800E	1840D	N12	E61	11 22.3		02	9	9	E	PALE	7926	
17	DSF	2328U	1415U	S16	E51	11 21.8	2	14	0	0	E	HOLL		
17	DSF	2328U	1415U	S16	E51	11 21.8	2	14	0	0	E	HOLL		
18	ADF	0220E	0730D	S02	E00	11 18.1	1	03	5	6	E	LEAR		
18	DSF	0221U	0731U	S03	W01	11 18.0	2	03	5	6	E	LEAR		
18	BSL	0826E	0843	N27	E90	11 25.4	1-				C	CATA		
18	BSL	1012	1023	N69	E90	11 26.6	1-				C	CATA		
18	BSL	1202E	1214	S72	W90	11 10.3	1-				C	CATA		
18	AFS	1420E	2350	S04	E10	11 19.3		01	9	9	E	HOLL	7925	
18	DSF	1425E	2005D	N08	E54	11 22.6		02	9	9	E	HOLL	7926	
18	AFS	1540E	2350	S03	E23	11 20.4		01	9	9	E	HOLL		
18	ADF	1735E	2100	N07	E49	11 22.4	1	03	9	9	E	PALE	7926	

ACTIVE PROMINENCES AND FILAMENTS

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Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
18	AFS	1742E	2100	S04	E11	11 19.5		02	9	9	E	PALE	7927	
19	ASR	0225E	0415D	S11	W90	11 12.3			6	7	E	LEAR	7921	
19	ASR	0630E	1020	S07	W90	11 12.5			8	8	E	LEAR	7921	
19	BSL	0856E	0900	N88	W90	11 10.9	1-				C	CATA		
19	BSL	0905	0905D	S64	E90	11 27.4	1-				C	CATA		
19	AFS	1126E	2121	N05	E39	11 22.4		02	8	6	E	RAMY	7926	
19	BSL	1204E	1207	S55	E90	11 27.3	1-				C	CATA		
19	AFS	1355E	2245D	N07	E39	11 22.5		01	4	5	E	HOLL	7926	
19	ADF	1355E	2245D	S12	W45	11 16.2	1	04	9	7	E	HOLL	7924	
20	AFS	0015E	0512D	S11	W54	11 15.9		02	9	9	E	LEAR	7924	
20	AFS	0815E	1026	N06	E27	11 22.4		01	9	9	E	LEAR	7926	
20	DSD	1120E	1340D	N05	E25	11 22.3		02	9	9	E	RAMY	7926	
20	AFS	1120E	2131	N06	E27	11 22.5		02	9	9	E	RAMY	7926	
20	DSD	1232	1435D	S02	W05	11 20.1		02	8	9	E	RAMY	7927	
20	AFS	1405E	2349	N06	E23	11 22.3		01	9	9	E	HOLL	7926	
20	DSD	1541	1621	N05	W01	11 20.6		03	0	0	E	HOLL		
21	AFS	0030E	1017	N05	E20	11 22.5		01	6	9	E	LEAR	7926	
21	AFS	1100E	1300D	N07	E13	11 22.4		02	5	5	E	RAMY	7926	
21	BSL	1109	1128	S24	E90	11 28.4	1-				C	CATA		
21	BSL	1142	1142D	S88	W90	11 13.1	1-				C	CATA		
21	DSD	1522E	1535D	S02	W30	11 19.4		01	9	9	E	RAMY	7925	
22	AFS	0310E	0335	S16	E20	11 23.6		01	9	9	E	PALE		
22	BSL	1114	1121	S81	W90	11 14.1	1-				C	CATA		
22	BSL	1216E	1231	N25	E90	11 29.5	1-				C	CATA		
22	DSD	1950	2349	N09	W08	11 22.2		03	9	9	E	HOLL	7926	
22	DSD	2310E	2349	S16	E57	11 27.3		02	9	9	E	HOLL		
23	BSL	0938	0956	N82	W90	11 15.0	1				C	CATA		
23	DSF	1322U	0737U	S22	E38	11 26.5		10	0	0	E	SVTO		
23	DSF	2029U	1210U	S24	E32	11 26.3	2	16	0	0	E	RAMY		
23	DSF	2318U	1210U	S21	E35	11 26.6	2	12	0	0	E	HOLL		
25	ADF	1330E	1920D	N05	W42	11 22.4	1	04	9	9	E	RAMY	7926	
26	ADF	0115E	1034D	N07	W48	11 22.4	1	04	9	9	E	LEAR	7926	
26	BSL	0748E	0756	N81	W90	11 17.9	1-				C	CATA		
26	BSL	0748E	0756	N82	E90	12 4.7	1-				C	CATA		
26	BSL	1120	1200	N13	E90	12 3.3	1				C	CATA		
27	DSF	0540U	0715U	S14	W04	11 26.9	2	05	0	0	E	LEAR		
27	DSF	1011U	2225U	S26	W16	11 26.2	2	11	0	0	E	LEAR		
27	AFS	1500E	2348	N12	W04	11 27.3		02	9	7	E	HOLL	7928	
27	ADF	1515E	2125	S08	W08	11 27.0	1	03	9	9	E	RAMY		
28	AFS	0520E	1033	N07	E38	12 1.1		03	3	9	E	LEAR		
28	AFS	0810E	1033	N07	E34	11 30.9		02	7	4	E	LEAR		
28	AFS	0934E	0942	N11	E30	11 30.6		02	9	8	E	SVTO		
28	AFS	1114E	2130	N08	E32	11 30.9		01	9	9	E	RAMY	7929	
28	AFS	1508E	2315	N08	E31	11 30.9		02	8	9	E	HOLL	7929	
28	AFS	1539E	2130	N08	E30	11 30.9		01	9	9	E	RAMY	7929	
28	AFS	1830E	1840	N08	E28	11 30.9		01	9	9	E	PALE	7929	
29	AFS	0400E	1030	N09	E23	11 30.9		02	9	9	E	LEAR	7929	
29	AFS	0715E	1500	N10	E20	11 30.8		02	9	9	E	SVTO	7929	
29	BSL	0753E	0802D	S59	E90	12 7.2	1-				C	CATA		
29	BSL	1057E	1104	N67	E90	12 7.6	1-				C	CATA		
29	AFS	1155E	2105	N08	E19	11 30.9		02	9	9	E	RAMY	7929	
29	AFS	1408E	1500	N06	E07	11 30.1		02	9	9	E	SVTO		
29	AFS	1430E	2347	N08	E16	11 30.8		01	9	7	E	HOLL	7929	
29	AFS	1515E	1703D	N04	E08	11 30.2		01	9	9	E	RAMY		
29	DSD	1643E	2105	N07	E13	11 30.7		02	9	9	E	RAMY	7929	
29	DSD	1659E	1850D	N07	E13	11 30.7		02	9	9	E	HOLL	7929	
29	DSD	1923	2231D	N07	E12	11 30.7		02	9	9	E	HOLL	7929	
29	AFS	1945E	0225	N08	E12	11 30.7		03	8	9	E	PALE	7929	
29	DSD	1945E	2307D	N08	E11	11 30.6		03	9	9	E	PALE	7929	
29	DSF	2105U	1054U	N22	E22	12 1.6		03	0	0	E	RAMY		

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ACTIVE PROMINENCES AND FILAMENTS

NOVEMBER 1995

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/USAF Reg#	Remarks
29	AFS	2317E	1030	N09	E11	11	30.8		02	9	9	E	LEAR	7929	
30	ADF	0320E	1030	N08	E12	12	1.0	1	07	9	9	E	LEAR	7929	
30	AFS	0858E	1331	N09	E05	11	30.7		03	9	9	E	SVTO	7929	
30	DSD	0917E	1331	N06	E01	11	30.5		04	9	9	E	SVTO	7929	
30	DSD	0917E	1331	N08	E02	11	30.5		05	9	9	E	SVTO	7929	
30	ADF	1055E	1730D	N10	E03	11	30.7	1	04	9	9	E	RAMY	7929	
30	DSD	1055E	1913	N06	E01	11	30.5		03	9	9	E	RAMY	7929	
30	AFS	1055E	1913	N08	E04	11	30.7		02	9	9	E	RAMY	7929	
30	BSD	1131	1247D	N08	E03	11	30.7		01	9	9	E	RAMY	7929	
30	DSD	1300E	1839D	N04	W03	11	30.3		01	9	9	E	RAMY	7929	
30	AFS	1430E	2346	N08	E02	11	30.7		01	9	7	E	HOLL	7929	
30	DSD	1430E	2346	N08	W01	11	30.5		02	9	9	E	HOLL	7929	
30	BSD	1644E	1913	N08	E00	11	30.7		01	9	9	E	RAMY	7929	
30	AFS	1752E	0236	N08	E01	11	30.8		03	7	8	E	PALE	7929	

ADF = Active Dark Filament
AFS = Arch Filament System
APR = Active Prominence
ASR = Active Surge Region
BSD = Bright Surge on Disk

BSL = Bright Surge on Limb
CAP = CAP Prominence (Tandberg-Hanssen)
CRN = Coronal Rain
DSD = Dark Surge on Disk
DSF = Disappearing Solar Filament

EPL = Eruptive Prominence on Limb
LPS = Loops
MDP = Mound Prominence
SDF/DSF = Sudden Disappearing Filament
SPY = Spray
SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

Observation Type: C= Cinematographic, E= Electronic, P= Photographic, V= Visual.

ABST = Abastumani
ATHN = Athens
BUCA = Bucharest
CATA = Catania

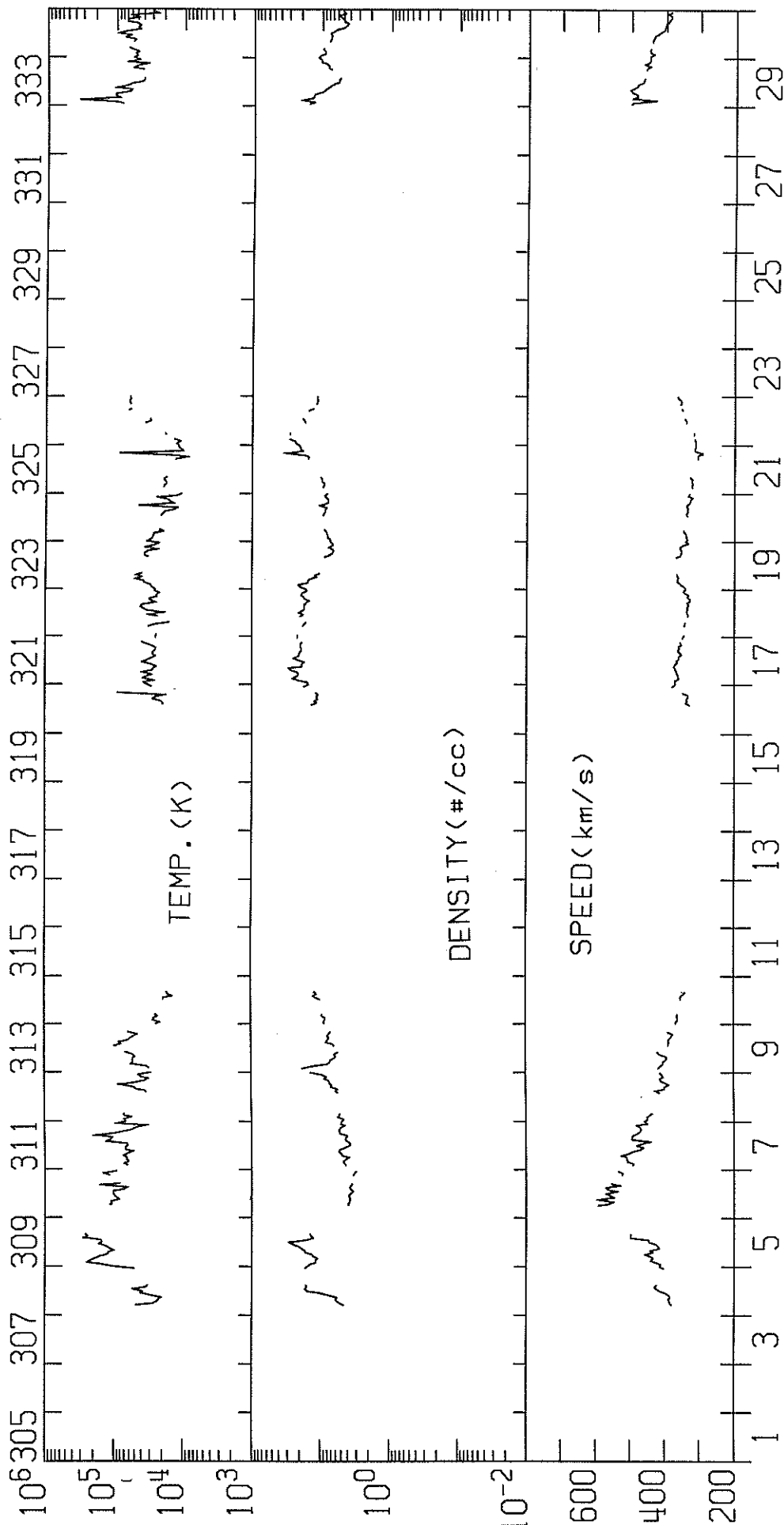
HOLL = Holloman
KHAR = Kharkov
LEAR = Learmonth
PALE = Palehua

RAMY = Ramey
SVTO = San Vito
VORO = Voroshilov
VALA = Valasske Mezirici

IMP 8 SOLAR WIND PLASMA
NOVEMBER 1995

MIT/CSR

IMP 8 PLASMA PARAMETERS



NOV 1995

NOV 1995

IMP 8

MIT

ONE-HOUR AVERAGES

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Nov 95

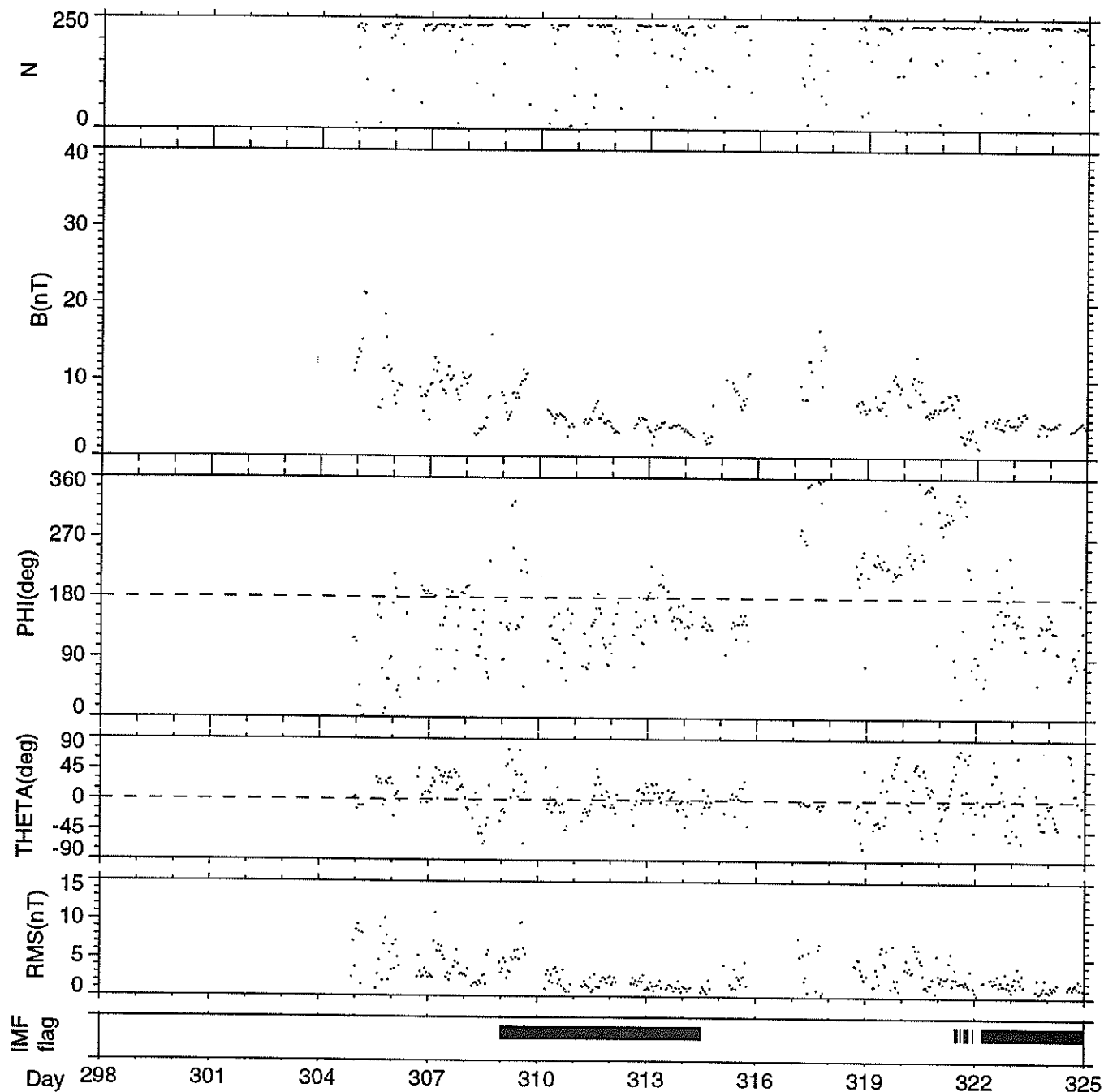
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IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 304 - 325

October 31 1995 - November 21 1995



Generation Date : Tue May 21 07:49:20 1996

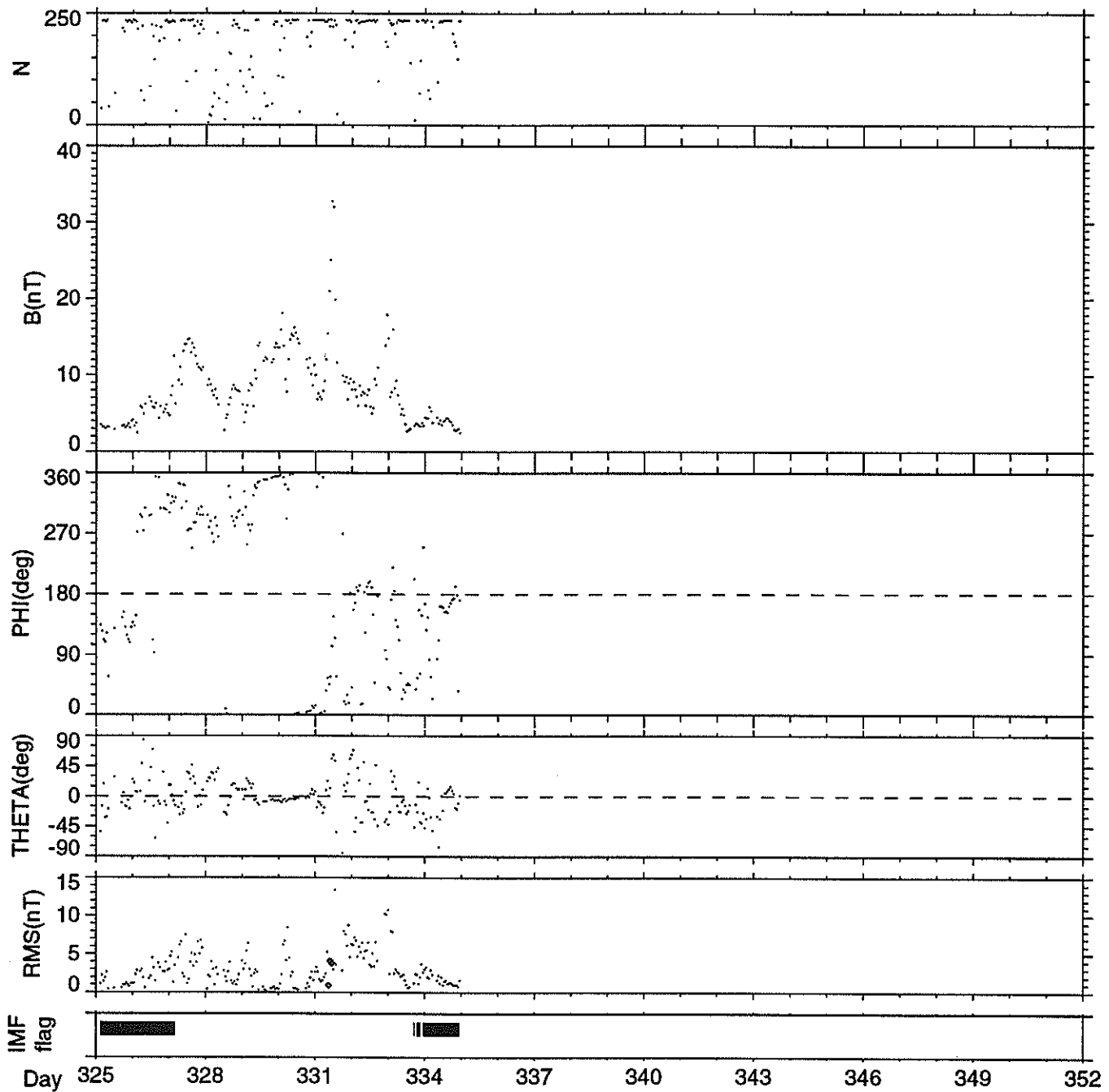
NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.

IMP-8 Magnetic Field Data in GSE Coordinates

1 Hour Averages

(c) DOY 325 - 334

November 21 1995 - November 30 1995



Generation Date : Tue May 21 07:50:26 1996

NOTE: The IMF "flag" (black boxes at the bottom of the plots) indicates where the interplanetary magnetic field regions are according to a dynamic model of the location of the bow shock. At all other times IMP-8 is in the magnetosphere.

CONTENTS

Comprehensive Reports

Number 621 Part II

MISCELLANEOUS DATA

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*****NEW DATA*****

DAILY CALCIUM PLAGE AREAS FROM MT. WILSON OBSERVATORY 1915-1949

Descriptive Text	26-27
Tables and Plots	28-63

Daily Calcium Plage Areas from Mt. Wilson Observatory 1915-1949

Recently the daily solar chromospheric spectroheliograms obtained in the K-line of Calcium II (Ca II) for the years 1915-1984 from Mt. Wilson Observatory were digitized and reduced by Dr. Peter Foukal, Cambridge Research and Instrumentation, Inc. (CRI) and his staff. The daily reduced Calcium plage area data for 1915-1949 are presented here. Data for 1950-1984 will appear in the next SGD issue. A detailed description of the data, reduction procedures, and errors, along with the results, are given in "The Behavior of Solar Magnetic Plages Measured from Mt. Wilson Observations between 1915-1984" by P. Foukal, in *Geophysical Research Letters*, to be published in 1996. These data are valuable for use in modeling the past total, ultraviolet (UV) and extreme ultraviolet (EUV) solar irradiances. They extend reliable information on the behavior of solar magnetic plage areas back to 1915.

The digitization was accomplished with a 800x490 Charged-Coupled Device (CCD) at an effective 512x512 format determined by an 8-bit frame grabber. The digitized images are stored on Exabyte tapes and are available to the scientific community. Figure 1 shows a print from the digital data. Each frame was viewed and the solar image centered. Software calculated the mean and root mean square (rms) of the pixel intensities within a rough polygon that enclosed the solar image. The software "painted" the plage pixels black, allowing the operator to check the software-chosen plage contour against the visual impression of the plage (compare the upper and lower panels of Figure 1). The area of the plage was calculated as a fraction of the disc area, corrected for foreshortening, and expressed as a fraction of the solar hemisphere.

The main source of error is the subjective decision of what constitutes an "active region plage". Another possible source of error is the constancy of the calibration of the plage area scale during the two year-long reduction process. Both errors are discussed by Foukal (1996).

The digital data are available via the World Wide Web on the NGDC on-line web site at <http://www.ngdc.noaa.gov/stp/stp.html>. They are accessible from the Solar and Upper Atmosphere homepage, under the CALCIUM subdirectory. Direct ftp anonymous access is available at <ftp.ngdc.noaa.gov> (cd STP/SOLAR_DATA/CALCIUM). Copies of the images stored on the Exabyte tapes are also available from NGDC.

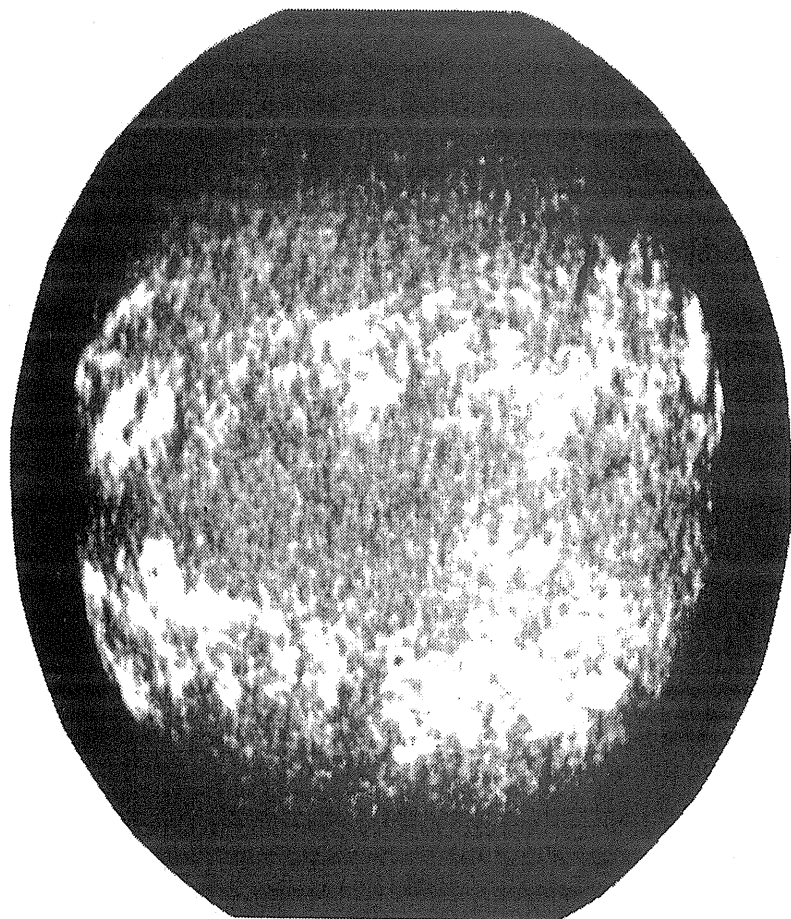
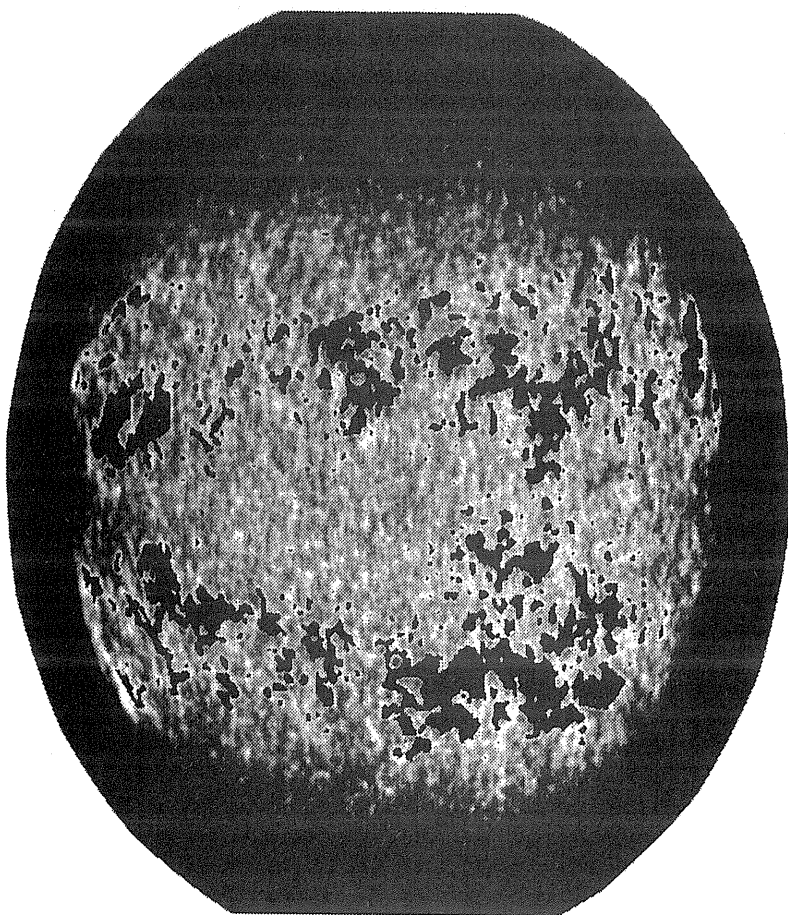
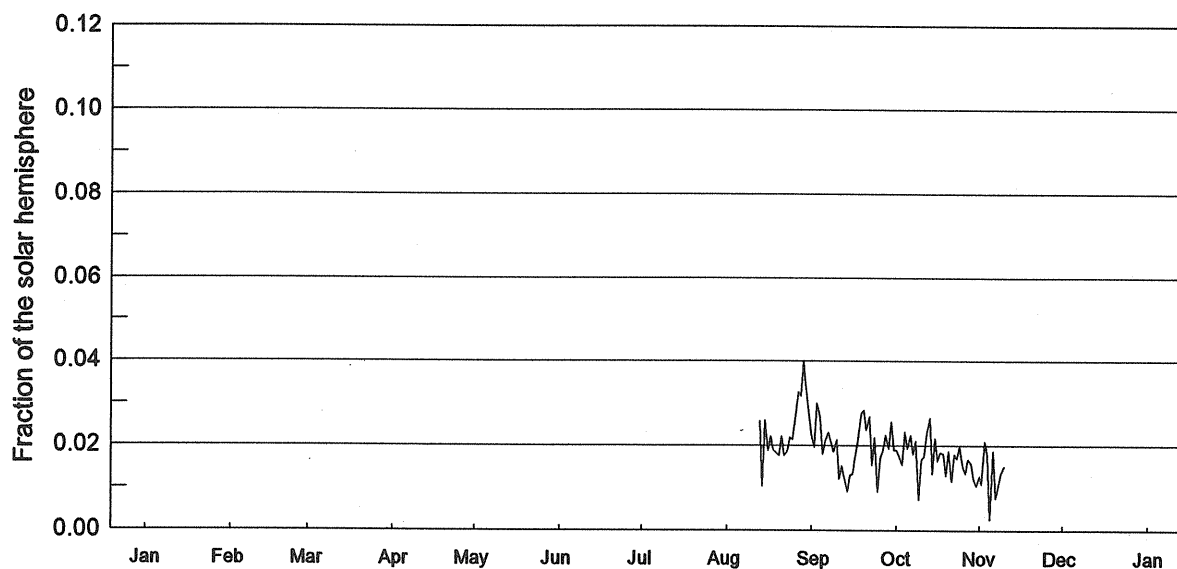


Fig. 1. The upper panel shows a print of a digitized Ca K image of the Sun. The lower panel shows the same image, with plage areas "painted" black by the software. The oblate appearance of the solar disk is caused by the aspect ratio of the CCD pixels. It does not appear in CRT display, but is difficult to remove with available printing hardware.



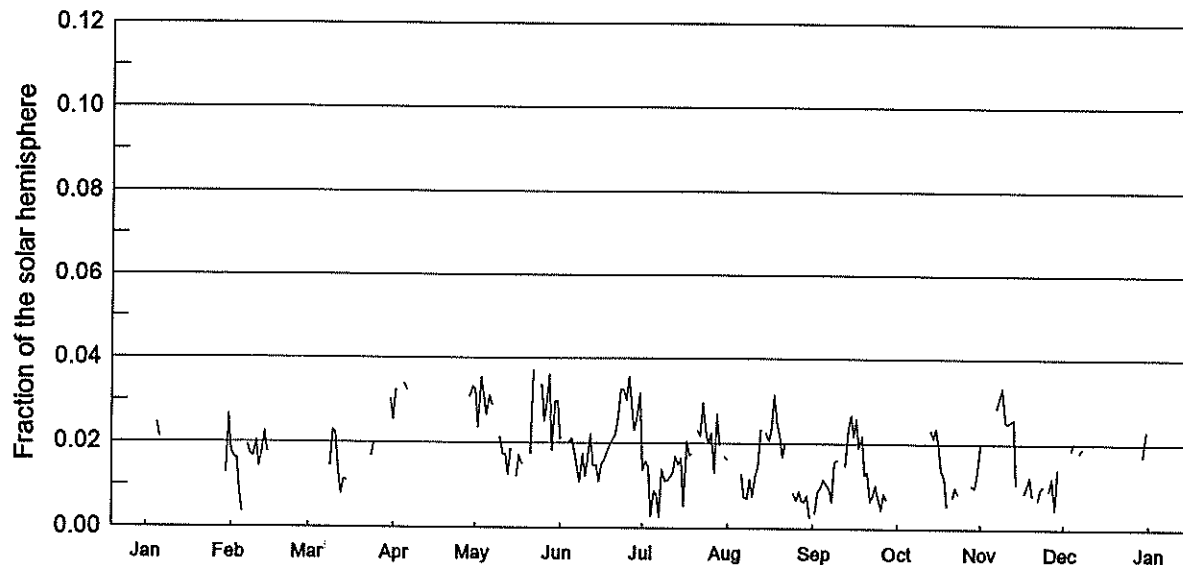
Mt Wilson Daily Calcium Plage
1915

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	--	--	--	--	--	--	--	0.0222	0.0189	0.0127	--
2	--	--	--	--	--	--	--	--	0.0195	0.0189	0.0109	--
3	--	--	--	--	--	--	--	--	0.0301	0.0174	0.0209	--
4	--	--	--	--	--	--	--	--	0.0267	0.0155	0.0177	--
5	--	--	--	--	--	--	--	--	0.0179	0.0232	0.0025	--
6	--	--	--	--	--	--	--	0.0235	0.0210	0.0192	0.0187	--
7	--	--	--	--	--	--	--	0.0237	0.0230	0.0225	0.0076	--
8	--	--	--	--	--	--	--	--	0.0208	0.0178	0.0103	--
9	--	--	--	--	--	--	--	--	0.0185	0.0210	0.0133	--
10	--	--	--	--	--	--	--	0.0207	0.0212	0.0072	0.0151	--
11	--	--	--	--	--	--	--	--	0.0121	0.0166	--	--
12	--	--	--	--	--	--	--	--	0.0152	0.0173	--	--
13	--	--	--	--	--	--	--	0.0258	0.0124	0.0228	--	--
14	--	--	--	--	--	--	--	0.0103	0.0090	0.0265	--	--
15	--	--	--	--	--	--	--	0.0259	0.0130	0.0133	--	--
16	--	--	--	--	--	--	--	0.0188	0.0131	0.0216	--	--
17	--	--	--	--	--	--	--	0.0222	0.0175	0.0163	--	--
18	--	--	--	--	--	--	--	0.0189	0.0212	0.0183	--	--
19	--	--	--	--	--	--	--	0.0184	0.0276	0.0180	--	--
20	--	--	--	--	--	--	--	0.0176	0.0284	0.0129	--	--
21	--	--	--	--	--	--	--	0.0221	0.0237	0.0186	--	--
22	--	--	--	--	--	--	--	0.0175	0.0268	0.0115	--	--
23	--	--	--	--	--	--	--	0.0187	0.0153	0.0179	--	--
24	--	--	--	--	--	--	--	0.0218	0.0219	0.0168	--	--
25	--	--	--	--	--	--	--	0.0213	0.0091	0.0199	--	--
26	--	--	--	--	--	--	--	0.0273	0.0170	0.0150	--	--
27	--	--	--	--	--	--	--	0.0326	0.0188	0.0135	--	--
28	--	--	--	--	--	--	--	0.0317	0.0224	0.0166	--	--
29	--	--	--	--	--	--	--	0.0399	0.0192	0.0158	--	--
30	--	--	--	--	--	--	--	0.0336	0.0256	0.0120	--	--
31	--	--	--	--	--	--	--	0.0269	--	0.0104	--	--

NOTE: -- indicates data not available.

Mt Wilson Daily Calcium Plage 1916

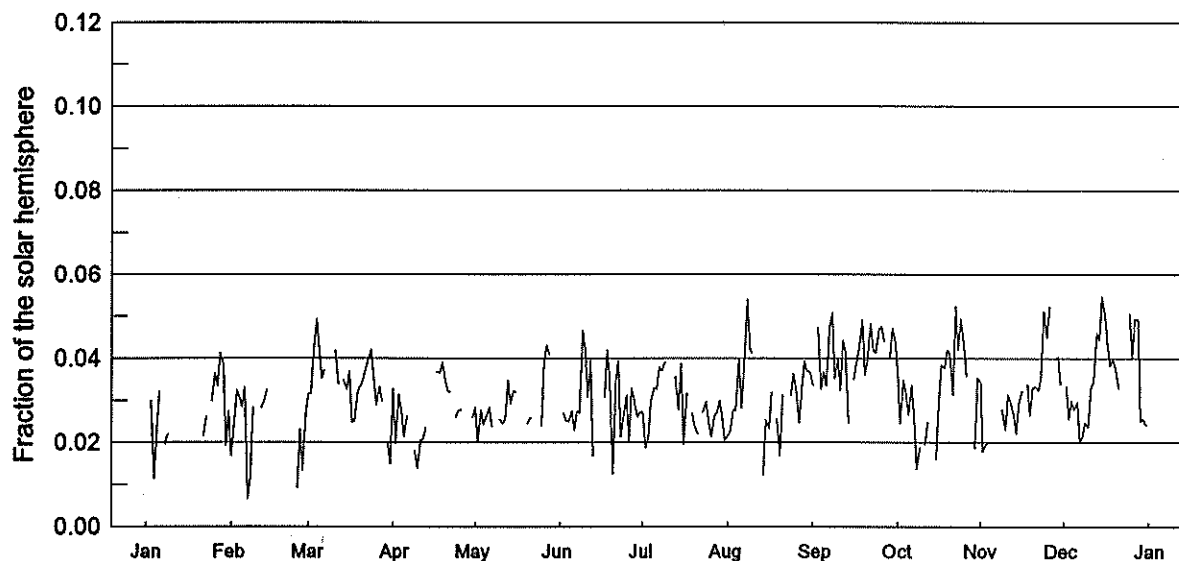
29
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	—	0.0177	—	0.0327	0.0236	—	0.0157	—	0.0038	—	—	—
2	—	0.0163	—	—	0.0357	—	0.0146	0.0134	0.0086	—	—	—
3	—	0.0162	—	—	0.0312	0.0201	0.0029	—	0.0098	—	—	0.0186
4	—	0.0082	—	0.0340	0.0267	0.0210	0.0088	—	0.0115	—	—	0.0204
5	0.0245	0.0035	—	0.0325	0.0312	0.0178	0.0079	0.0127	0.0104	—	—	—
6	0.0211	—	—	—	0.0289	0.0146	0.0026	0.0074	0.0095	0.0111	0.0287	0.0180
7	—	0.0191	—	—	—	0.0108	0.0138	0.0069	0.0061	—	0.0309	0.0189
8	—	0.0170	0.0146	—	—	0.0174	0.0110	0.0115	0.0158	—	0.0334	—
9	—	0.0166	0.0229	—	0.0214	0.0121	0.0112	0.0074	0.0160	—	0.0251	—
10	—	0.0205	0.0225	—	0.0173	0.0167	0.0119	0.0126	—	—	0.0249	—
11	0.0170	0.0142	0.0129	—	0.0172	0.0222	0.0134	0.0145	—	—	0.0254	—
12	—	0.0173	0.0079	—	0.0126	0.0147	0.0169	0.0234	0.0148	—	0.0259	—
13	—	0.0226	0.0113	—	0.0186	0.0148	0.0150	—	0.0236	0.0231	0.0105	—
14	—	0.0176	0.0110	—	—	0.0109	0.0163	0.0224	0.0268	0.0213	—	—
15	—	—	—	—	0.0121	0.0150	0.0053	0.0206	0.0216	0.0236	—	—
16	—	—	0.0136	—	0.0170	0.0162	0.0205	0.0235	0.0259	0.0194	0.0086	—
17	—	—	—	—	0.0150	0.0178	0.0171	0.0316	0.0191	0.0139	0.0102	0.0093
18	—	—	—	—	—	0.0196	0.0176	0.0253	0.0216	0.0119	0.0123	—
19	—	—	0.0171	—	—	0.0211	—	0.0215	0.0125	0.0053	0.0077	—
20	0.0123	—	—	—	0.0174	0.0223	0.0229	0.0168	0.0133	—	—	—
21	—	—	—	—	0.0375	0.0264	0.0216	0.0199	0.0065	0.0076	0.0069	—
22	—	—	—	—	—	0.0328	0.0295	—	0.0079	0.0099	0.0097	—
23	—	—	0.0169	—	—	0.0326	0.0224	—	0.0101	0.0081	0.0101	—
24	—	—	0.0199	—	0.0338	0.0302	0.0200	0.0082	0.0066	—	—	—
25	—	—	—	—	0.0252	0.0358	0.0224	0.0066	0.0045	—	0.0091	—
26	—	—	0.0207	—	0.0295	0.0289	0.0130	0.0087	0.0084	—	0.0120	—
27	—	—	—	—	0.0362	0.0229	0.0270	0.0065	0.0068	—	0.0047	—
28	—	—	0.0239	0.0311	0.0182	0.0268	0.0195	0.0062	—	0.0101	0.0142	—
29	—	—	—	0.0334	0.0298	0.0320	—	0.0077	—	0.0096	—	0.0171
30	0.0129	—	0.0303	0.0326	0.0298	0.0136	0.0168	0.0024	—	0.0129	—	0.0232
31	0.0267	—	0.0255	—	0.0207	—	0.0160	—	—	0.0198	—	—

NOTE: — indicates data not available.

Mt Wilson Daily Calcium Plage 1917

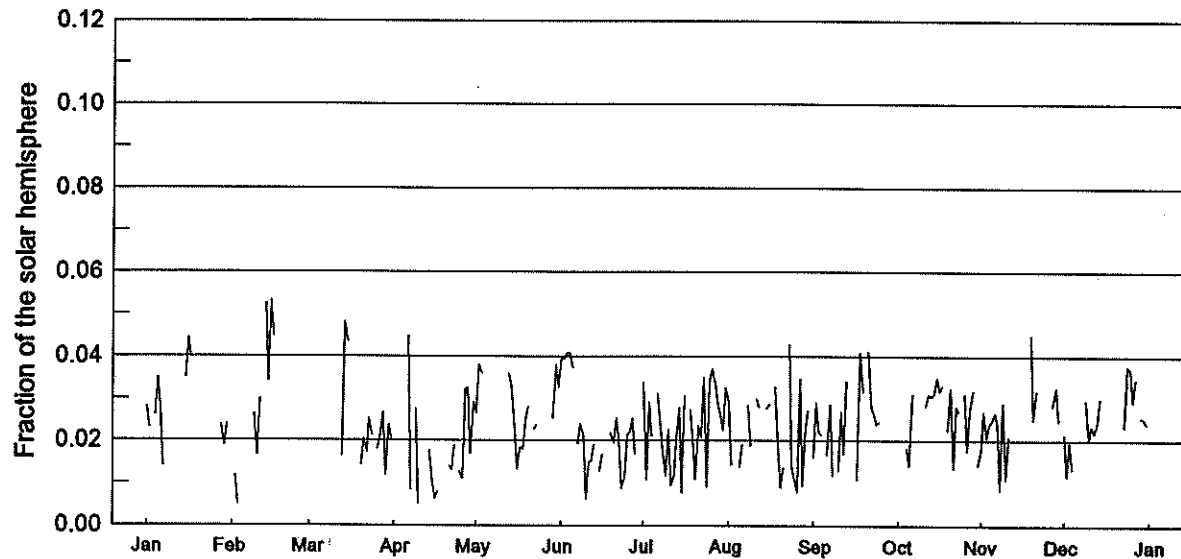


Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	0.0168	0.0317	0.0329	0.0284	--	0.0273	0.0217	0.0337	0.0444	0.0344	--
2	--	0.0250	0.0315	0.0197	0.0202	0.0270	0.0188	0.0229	--	0.0373	0.0179	0.0336
3	0.0301	0.0324	0.0414	0.0314	0.0278	0.0252	0.0209	0.0278	0.0473	0.0245	0.0194	0.0257
4	0.0113	0.0307	0.0493	0.0277	0.0242	0.0250	0.0297	0.0276	0.0327	0.0348	0.0199	0.0299
5	0.0231	0.0285	0.0421	0.0214	0.0260	0.0274	0.0330	0.0400	0.0369	0.0318	--	0.0279
6	0.0324	0.0332	0.0353	0.0263	0.0284	0.0229	0.0328	0.0282	0.0336	0.0267	--	0.0296
7	--	0.0065	0.0373	--	0.0236	0.0274	0.0379	0.0384	0.0472	0.0337	0.0241	0.0202
8	0.0195	0.0117	--	--	--	0.0272	0.0370	0.0539	0.0509	0.0257	--	0.0214
9	0.0221	0.0285	--	0.0181	--	0.0465	0.0393	0.0419	0.0352	0.0136	0.0279	0.0247
10	--	--	--	0.0138	0.0255	0.0416	--	0.0411	0.0400	0.0190	0.0231	0.0237
11	--	--	0.0419	0.0204	0.0246	0.0308	--	--	0.0324	--	0.0314	0.0333
12	--	0.0284	0.0339	0.0208	0.0256	0.0396	--	0.0349	0.0443	0.0195	0.0297	0.0344
13	0.0094	0.0305	--	0.0236	0.0348	0.0166	0.0356	--	0.0411	0.0250	0.0267	0.0459
14	--	0.0327	0.0348	--	0.0293	--	0.0278	0.0122	0.0244	--	0.0222	0.0444
15	0.0056	--	0.0328	--	0.0324	--	0.0388	0.0253	--	--	0.0296	0.0546
16	--	--	0.0371	--	0.0318	--	0.0196	0.0233	0.0351	0.0161	0.0325	0.0500
17	--	--	0.0247	0.0369	--	0.0309	0.0319	0.0321	0.0393	0.0294	--	0.0428
18	--	--	0.0250	0.0365	0.0420	0.0421	--	--	0.0425	0.0386	0.0340	0.0383
19	--	--	0.0322	0.0392	--	0.0344	0.0270	0.0256	0.0492	0.0378	0.0266	0.0398
20	--	--	0.0335	0.0350	0.0245	0.0124	0.0239	0.0169	0.0361	0.0420	0.0331	0.0379
21	--	--	0.0347	0.0322	0.0260	0.0341	0.0220	0.0314	0.0395	0.0409	0.0333	0.0328
22	0.0215	0.0218	0.0379	0.0321	--	0.0395	--	--	0.0482	0.0314	0.0324	--
23	0.0263	--	0.0396	--	--	0.0214	0.0273	--	0.0418	0.0523	0.0356	0.0511
24	--	--	0.0420	0.0261	--	0.0269	0.0297	0.0313	0.0413	0.0420	0.0511	--
25	0.0298	0.0090	0.0353	0.0277	0.0240	0.0313	0.0247	0.0364	0.0469	0.0493	0.0449	0.0506
26	0.0365	0.0231	0.0289	0.0277	0.0396	0.0198	0.0213	0.0319	0.0475	0.0429	0.0523	0.0403
27	0.0334	0.0131	0.0334	--	0.0432	0.0330	0.0263	0.0245	0.0440	0.0357	--	0.0493
28	0.0412	0.0269	0.0299	--	0.0408	0.0300	0.0272	0.0327	--	--	0.0399	0.0492
29	0.0387	--	--	--	--	0.0261	0.0300	0.0395	0.0403	--	0.0404	0.0250
30	0.0193	--	0.0197	0.0260	0.0365	0.0271	0.0259	0.0371	0.0472	0.0187	0.0338	0.0257
31	0.0274	--	0.0150	--	--	--	0.0205	0.0367	--	0.0353	--	0.0240

NOTE: -- indicates data not available.

Mt Wilson Daily Calcium Plage 1918

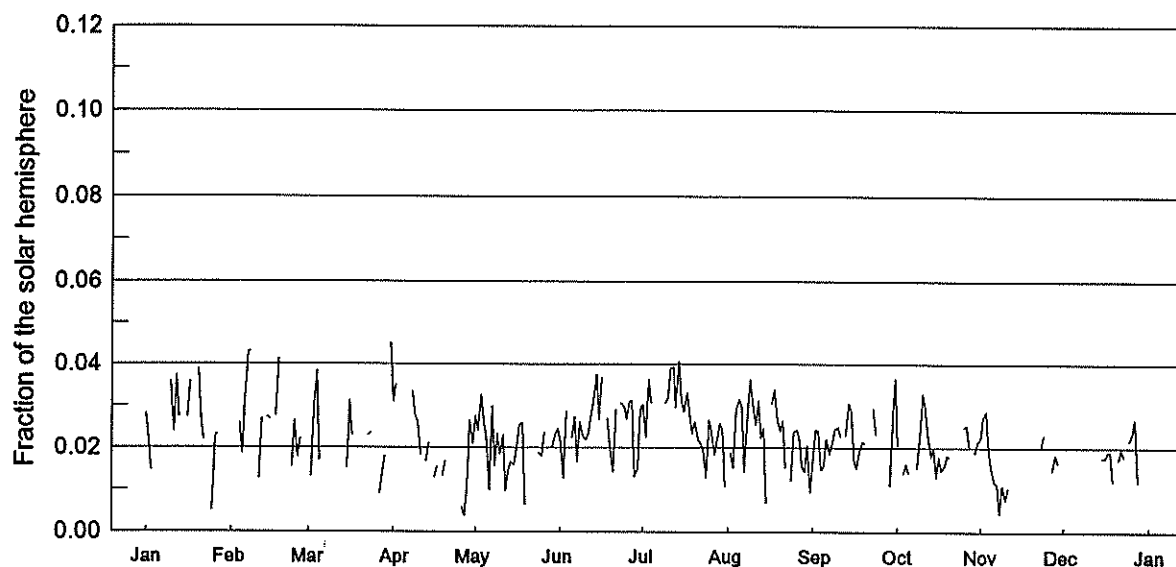
31
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0280	--	--	--	0.0266	0.0395	0.0339	0.0289	0.0161	0.0312	0.0181	0.0214
2	0.0230	0.0118	0.0139	--	0.0380	0.0395	0.0107	0.0141	0.0291	--	0.0268	0.0117
3	--	0.0049	--	--	0.0360	0.0408	0.0291	--	0.0220	--	0.0206	0.0196
4	0.0260	--	--	0.0410	--	0.0409	0.0209	--	0.0212	--	0.0238	0.0131
5	0.0350	0.0034	--	--	--	0.0373	--	0.0138	--	0.0182	0.0245	--
6	0.0280	--	--	0.0449	0.0192	--	0.0313	0.0192	0.0166	0.0141	0.0266	--
7	0.0140	0.0128	--	0.0084	--	0.0194	0.0245	--	0.0286	0.0313	0.0239	--
8	--	--	0.0125	--	--	0.0240	0.0178	0.0283	0.0116	--	0.0085	--
9	--	0.0262	--	0.0276	--	0.0211	0.0116	0.0187	--	--	0.0289	0.0295
10	--	0.0165	--	0.0050	0.0326	0.0064	0.0226	--	0.0130	--	0.0107	0.0202
11	--	0.0302	--	--	--	0.0148	0.0094	0.0298	0.0269	--	0.0209	0.0234
12	--	--	--	--	--	0.0151	0.0117	0.0279	0.0168	0.0284	--	0.0218
13	--	0.0525	0.0163	--	0.0360	0.0193	0.0195	--	0.0343	0.0311	--	0.0239
14	--	0.0341	0.0481	0.0176	0.0327	--	0.0277	--	--	0.0305	--	0.0302
15	0.0350	0.0532	0.0433	0.0098	0.0231	0.0129	0.0077	0.0278	--	0.0312	0.0234	--
16	0.0445	0.0446	--	0.0064	0.0133	0.0168	0.0308	0.0288	--	0.0350	--	--
17	0.0398	--	--	0.0081	0.0183	--	--	--	0.0108	0.0318	--	0.0320
18	--	--	--	--	0.0180	--	0.0273	0.0327	0.0410	0.0331	--	--
19	--	--	--	--	0.0252	0.0217	0.0201	0.0204	0.0315	--	0.0450	0.0181
20	0.0437	--	0.0143	--	0.0282	0.0195	0.0109	0.0089	--	0.0224	0.0250	--
21	--	--	0.0204	0.0139	--	0.0254	0.0236	0.0138	0.0413	0.0325	0.0320	0.0314
22	0.0549	--	0.0173	0.0131	0.0227	0.0195	0.0206	--	0.0280	0.0135	--	--
23	--	--	0.0253	0.0190	0.0238	0.0088	0.0351	0.0429	0.0264	0.0281	--	0.0234
24	--	--	0.0212	--	--	0.0113	0.0090	0.0140	0.0239	0.0268	--	0.0377
25	0.0307	--	--	0.0127	0.0225	0.0214	0.0343	0.0110	0.0246	--	0.0229	0.0369
26	--	0.0163	0.0181	0.0111	--	0.0220	0.0371	0.0080	--	0.0311	--	0.0292
27	--	--	0.0215	0.0323	--	0.0253	0.0334	0.0347	--	0.0176	0.0284	0.0347
28	0.0238	0.0215	0.0267	0.0325	--	0.0168	0.0286	0.0094	--	0.0270	0.0326	--
29	0.0190	--	0.0119	0.0168	0.0253	--	0.0260	0.0215	--	0.0320	0.0246	0.0255
30	0.0241	--	0.0238	0.0293	0.0381	--	0.0225	0.0272	--	--	--	0.0251
31	--	--	0.0204	--	0.0327	--	0.0326	--	--	0.0143	--	0.0239

NOTE: -- indicates data not available.

Mt Wilson Daily Calcium Plage 1919

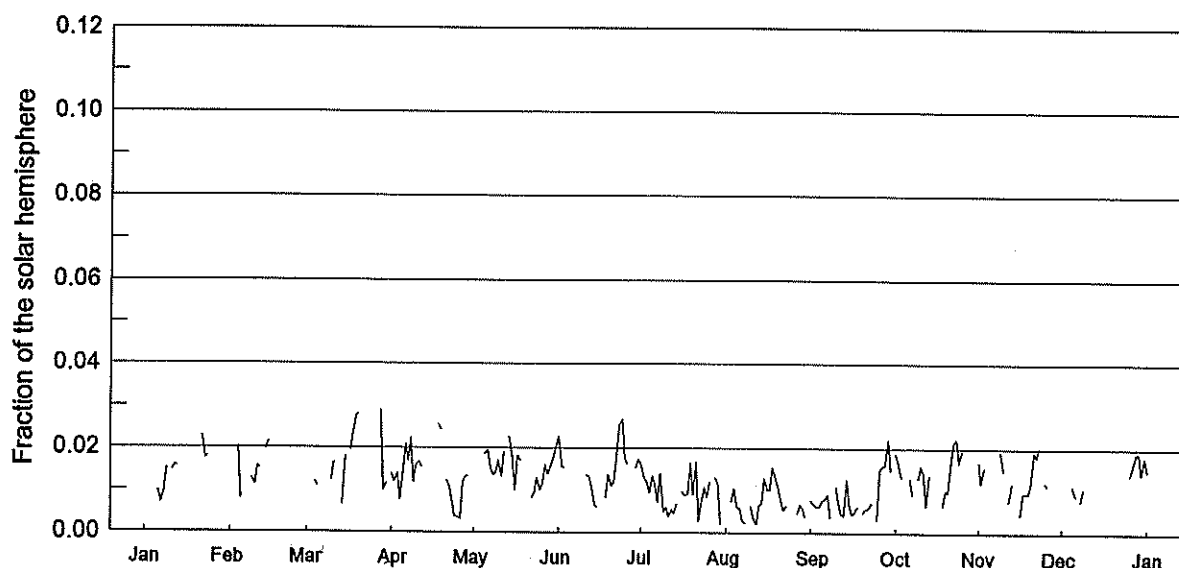


Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0282	--	--	0.0310	0.0278	0.0216	0.0304	--	0.0170	0.0366	0.0224	--
2	0.0220	--	0.0131	0.0353	0.0242	0.0127	0.0226	0.0188	0.0242	0.0204	0.0270	--
3	0.0145	--	0.0287	--	0.0328	0.0290	0.0362	0.0152	0.0241	--	0.0288	--
4	--	0.0259	0.0384	--	0.0263	--	0.0307	0.0290	0.0147	0.0140	0.0196	--
5	0.0100	0.0186	0.0168	--	0.0228	0.0226	--	0.0315	0.0154	0.0162	0.0151	--
6	--	0.0319	--	--	0.0099	0.0274	0.0175	0.0299	0.0222	0.0139	0.0118	--
7	--	0.0431	0.0200	--	0.0301	0.0167	--	0.0142	0.0186	--	0.0115	--
8	--	0.0430	--	0.0335	0.0156	0.0262	--	0.0279	0.0209	--	0.0043	0.0102
9	--	--	0.0343	0.0277	0.0235	0.0228	0.0306	0.0363	0.0244	0.0152	0.0110	--
10	0.0358	--	--	0.0262	0.0185	0.0220	0.0318	0.0308	0.0248	0.0233	0.0075	--
11	0.0240	0.0127	--	0.0182	0.0230	0.0230	0.0391	0.0255	0.0228	0.0331	0.0104	--
12	0.0373	0.0272	--	--	0.0097	0.0275	0.0393	0.0312	--	0.0292	--	0.0095
13	0.0273	--	--	0.0169	0.0146	0.0309	0.0297	0.0224	0.0231	0.0229	--	--
14	--	0.0273	--	0.0212	0.0166	0.0375	0.0407	0.0247	0.0306	0.0181	--	--
15	--	0.0268	0.0152	--	0.0159	0.0269	0.0315	0.0067	0.0287	0.0197	--	0.0175
16	0.0275	--	0.0312	0.0130	0.0198	0.0369	0.0286	--	0.0171	0.0130	--	0.0176
17	0.0359	0.0278	0.0229	0.0154	0.0253	--	0.0332	0.0307	0.0152	0.0178	0.0083	0.0190
18	--	0.0416	--	--	0.0260	0.0270	0.0277	0.0340	0.0188	0.0146	--	0.0190
19	--	--	--	0.0134	0.0064	0.0199	0.0234	0.0273	0.0213	0.0158	--	0.0119
20	0.0389	0.0149	--	0.0170	--	0.0142	0.0262	0.0240	0.0212	0.0182	--	--
21	0.0271	--	--	--	--	0.0292	0.0220	0.0265	--	0.0177	--	0.0173
22	0.0218	--	--	0.0130	--	--	0.0210	0.0152	--	--	--	0.0195
23	--	0.0155	0.0230	--	--	0.0307	0.0196	--	0.0294	--	0.0200	0.0179
24	--	0.0265	0.0238	--	0.0188	0.0298	0.0128	0.0123	0.0232	--	0.0232	--
25	0.0051	0.0177	--	--	0.0180	0.0268	0.0267	0.0238	--	--	--	0.0218
26	0.0228	0.0223	--	0.0057	0.0238	0.0309	0.0236	0.0242	--	0.0249	--	0.0233
27	0.0235	--	0.0090	0.0037	--	0.0313	0.0184	0.0221	--	0.0253	0.0145	0.0269
28	--	0.0149	0.0140	0.0109	--	0.0132	0.0223	0.0153	--	0.0203	0.0184	0.0118
29	--	--	0.0182	0.0265	0.0202	0.0148	0.0258	0.0142	0.0111	--	0.0164	--
30	--	--	--	0.0211	0.0232	0.0293	0.0244	0.0206	0.0255	0.0188	--	--
31	--	--	0.0452	--	0.0245	--	0.0106	0.0093	--	0.0213	--	--

NOTE: -- indicates data not available.

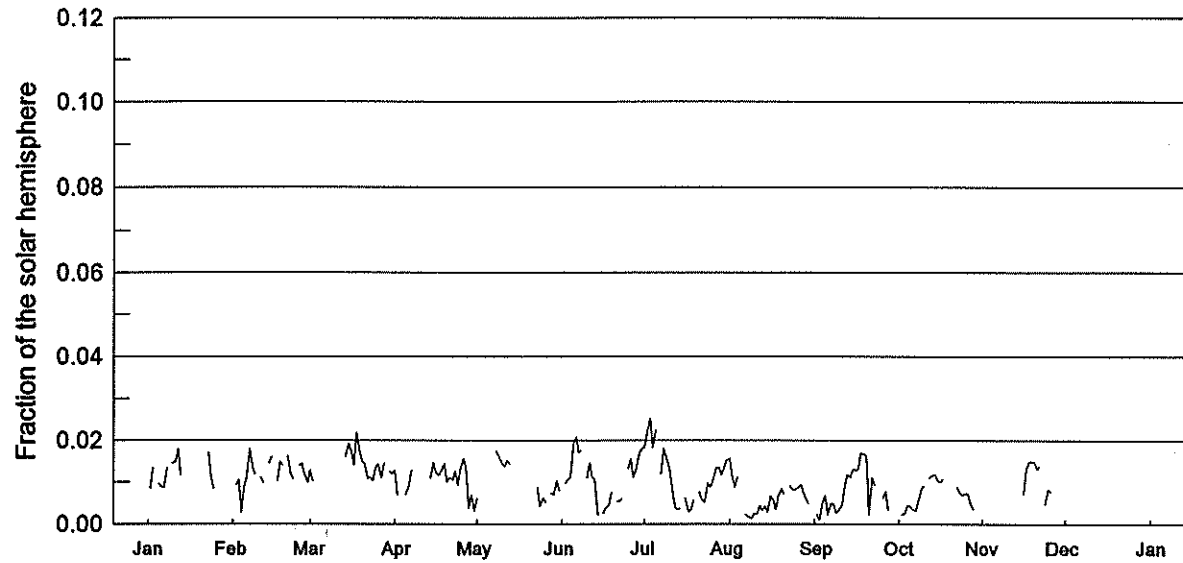
Mt Wilson Daily Calcium Plage 1920

33
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	—	—	0.0233	0.0119	—	0.0155	0.0129	—	0.0066	0.0187	0.0118	—
2	—	—	—	0.0139	—	0.0155	0.0119	0.0074	0.0061	0.0165	0.0154	0.0164
3	—	—	0.0118	0.0077	—	—	0.0094	0.0104	0.0061	0.0130	—	—
4	—	0.0203	0.0107	0.0132	0.0186	—	0.0134	0.0059	0.0074	—	—	0.0111
5	—	0.0079	—	0.0209	0.0195	—	0.0112	0.0057	0.0079	—	—	0.0088
6	0.0096	—	0.0070	0.0169	0.0151	0.0181	0.0071	0.0029	0.0089	0.0127	—	—
7	0.0069	—	—	0.0224	0.0137	—	0.0140	0.0023	0.0036	0.0089	—	0.0076
8	0.0094	—	—	0.0117	0.0141	—	0.0050	—	—	—	0.0194	0.0106
9	0.0151	0.0125	0.0123	0.0159	0.0170	—	0.0058	0.0062	0.0107	0.0129	0.0146	—
10	—	0.0112	0.0167	0.0166	0.0132	0.0135	0.0039	0.0032	0.0070	0.0158	—	—
11	0.0147	0.0156	—	0.0155	0.0192	0.0131	0.0054	0.0021	0.0045	0.0142	0.0074	—
12	0.0157	0.0148	—	—	—	0.0109	0.0045	0.0065	0.0040	0.0064	0.0117	0.0078
13	0.0154	—	0.0065	—	0.0227	0.0063	0.0068	0.0068	0.0125	0.0136	—	—
14	—	0.0197	0.0181	—	0.0177	0.0058	—	0.0127	0.0061	—	—	—
15	—	0.0217	—	—	0.0100	—	0.0096	0.0101	0.0043	0.0094	0.0043	—
16	0.0140	—	0.0195	—	0.0182	—	0.0088	0.0101	0.0049	—	0.0093	0.0100
17	—	—	0.0238	0.0258	0.0168	0.0084	0.0090	0.0154	0.0062	—	0.0094	—
18	—	—	0.0278	0.0242	—	0.0137	0.0165	0.0133	—	0.0064	0.0093	—
19	0.0145	—	0.0281	—	0.0076	0.0109	0.0089	0.0106	0.0048	0.0100	0.0115	—
20	—	—	—	0.0121	—	0.0120	0.0167	0.0077	0.0056	0.0097	0.0191	—
21	—	—	—	0.0109	0.0081	0.0185	0.0027	0.0053	0.0058	0.0172	0.0181	—
22	0.0229	—	—	0.0074	0.0092	0.0257	0.0070	0.0065	0.0071	0.0217	0.0203	—
23	0.0174	—	0.0245	0.0037	0.0129	0.0269	0.0106	—	—	0.0223	—	—
24	0.0181	—	—	0.0037	0.0100	0.0172	0.0085	—	0.0031	0.0167	0.0118	—
25	—	0.0212	—	0.0031	0.0115	0.0162	0.0120	—	0.0148	0.0196	0.0110	0.0140
26	—	—	—	0.0119	0.0159	—	—	0.0046	0.0158	—	—	0.0160
27	—	—	0.0290	0.0131	0.0138	—	0.0129	0.0067	0.0159	—	—	0.0188
28	—	—	0.0100	0.0133	0.0154	0.0154	0.0113	0.0057	0.0222	0.0178	0.0193	0.0190
29	—	—	0.0116	—	0.0177	0.0172	0.0019	0.0037	0.0147	—	—	0.0140
30	—	—	—	—	0.0204	0.0162	—	—	—	—	0.0234	0.0179
31	—	—	0.0138	—	0.0229	—	—	0.0076	—	0.0166	—	0.0147

NOTE: — indicates data not available.

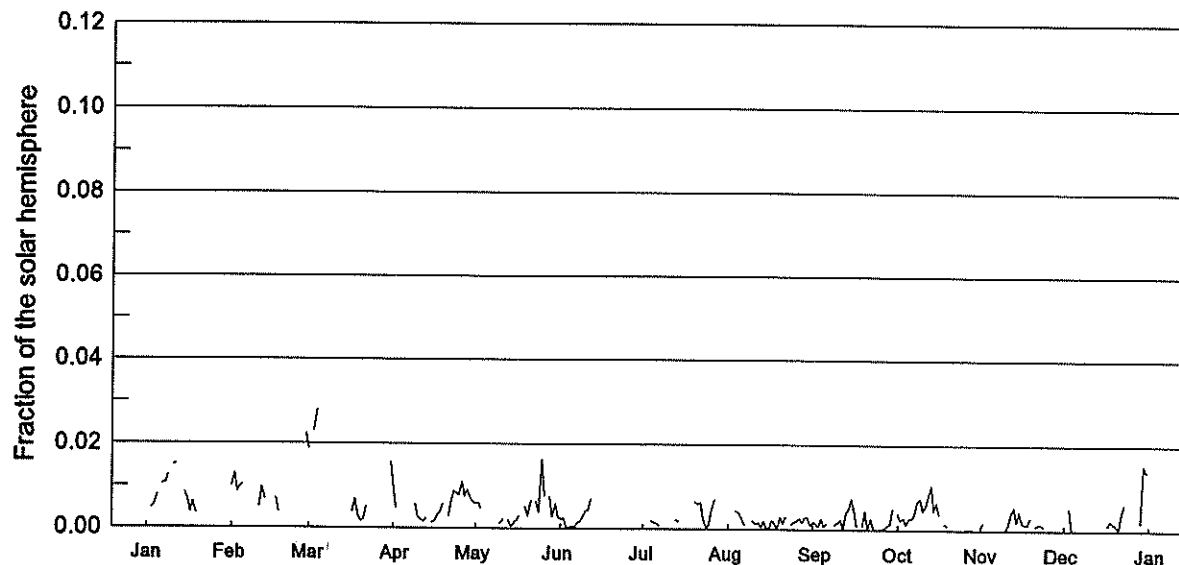
Mt Wilson Daily Calcium Plage
1921

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	--	0.0120	0.0120	0.0060	--	0.0180	0.0150	--	--	--	--
2	0.0080	0.0090	0.0100	0.0060	--	0.0090	0.0220	0.0110	0.0020	--	--	--
3	0.0130	0.0100	--	--	--	0.0100	0.0250	0.0080	0.0010	0.0020	--	--
4	--	0.0020	0.0080	--	--	0.0110	0.0180	0.0110	0.0050	0.0020	--	0.0020
5	0.0090	0.0080	--	0.0070	--	0.0190	0.0220	--	0.0060	0.0040	0.0010	0.0010
6	0.0080	0.0100	--	0.0090	--	0.0200	--	--	0.0020	0.0040	--	--
7	0.0080	0.0180	0.0050	0.0130	--	0.0170	0.0110	0.0020	0.0040	0.0030	0.0030	0.0020
8	0.0130	0.0130	--	--	0.0170	0.0170	0.0180	0.0010	0.0040	0.0030	--	0.0050
9	--	0.0110	0.0050	--	0.0160	--	0.0150	0.0010	0.0020	0.0050	--	0.0070
10	0.0140	--	--	--	0.0140	0.0110	0.0130	0.0020	0.0030	0.0080	--	0.0110
11	0.0140	0.0110	--	--	0.0130	0.0140	0.0080	0.0020	0.0040	0.0090	0.0130	0.0100
12	0.0180	0.0090	--	--	0.0150	0.0110	0.0040	0.0040	0.0080	--	--	--
13	0.0110	--	--	--	0.0140	0.0100	0.0030	0.0030	0.0110	0.0110	0.0110	0.0130
14	--	0.0140	0.0160	0.0100	--	0.0020	0.0030	0.0040	0.0110	0.0110	--	0.0150
15	--	0.0160	0.0190	0.0140	--	--	--	0.0020	0.0130	0.0110	--	--
16	--	--	0.0170	0.0120	--	0.0020	0.0060	0.0060	0.0120	0.0100	0.0070	--
17	--	0.0100	0.0140	0.0110	--	0.0030	0.0020	0.0050	0.0130	0.0100	0.0130	--
18	--	0.0140	0.0210	0.0120	--	0.0040	0.0030	0.0030	0.0160	0.0100	0.0140	--
19	--	0.0140	0.0170	0.0140	--	0.0070	0.0050	0.0060	0.0160	--	0.0140	--
20	--	--	0.0140	0.0100	--	--	--	0.0080	0.0160	--	0.0140	--
21	--	0.0160	0.0140	0.0110	--	0.0050	0.0070	0.0070	0.0020	--	0.0130	--
22	--	0.0110	0.0100	0.0100	--	0.0050	0.0050	--	0.0110	--	0.0130	--
23	0.0170	0.0100	0.0110	0.0120	0.0080	0.0060	0.0050	0.0080	0.0090	0.0080	--	--
24	0.0110	--	0.0100	0.0090	0.0040	--	0.0090	0.0080	--	0.0070	0.0040	--
25	0.0080	0.0130	0.0130	0.0130	0.0060	0.0130	0.0080	0.0080	--	0.0070	0.0080	--
26	--	0.0140	0.0140	0.0150	0.0050	0.0150	0.0100	0.0080	0.0060	0.0070	0.0070	--
27	--	0.0110	0.0110	0.0130	--	0.0110	0.0130	0.0090	0.0070	0.0070	--	--
28	0.0130	0.0090	0.0140	0.0030	0.0070	0.0120	0.0130	0.0070	0.0030	0.0040	--	--
29	--	--	--	0.0060	0.0060	0.0160	0.0110	0.0060	--	0.0030	--	--
30	0.0160	--	0.0120	0.0030	0.0100	0.0180	0.0130	0.0040	--	--	0.0020	--
31	--	--	0.0110	--	0.0070	--	0.0150	--	--	--	--	--

NOTE: -- Indicates data not available.

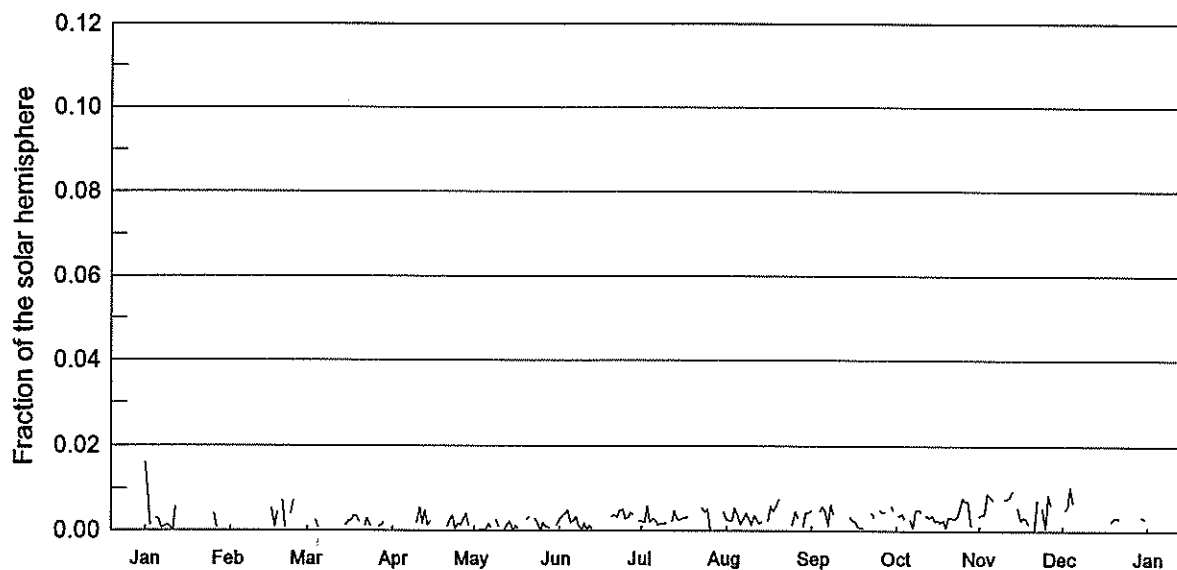
Mt Wilson Daily Calcium Plage 1922

35
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	—	0.0098	0.0186	0.0100	0.0059	0.0022	—	—	0.0017	—	0.0009	—
2	—	0.0130	—	0.0046	0.0060	0.0024	—	0.0018	0.0014	0.0038	0.0018	—
3	0.0046	0.0086	0.0231	—	0.0046	0.0001	—	—	0.0005	0.0023	—	0.0053
4	0.0056	0.0096	0.0282	—	—	0.0003	0.0019	0.0044	0.0026	0.0027	0.0008	0.0000
5	0.0079	0.0105	—	—	—	0.0004	0.0014	0.0038	0.0005	0.0012	—	—
6	—	—	—	—	—	0.0004	0.0011	0.0025	0.0015	0.0025	0.0033	—
7	0.0105	—	0.0138	—	—	0.0013	0.0006	0.0008	—	0.0027	—	0.0071
8	0.0106	—	—	—	—	0.0017	—	—	—	0.0036	—	—
9	0.0126	—	—	0.0057	—	0.0029	—	—	0.0011	0.0066	—	—
10	—	—	—	0.0025	0.0012	0.0042	—	0.0020	0.0017	0.0072	0.0000	—
11	0.0148	0.0052	—	0.0019	0.0023	0.0043	0.0052	0.0011	0.0023	0.0045	0.0013	—
12	0.0154	0.0096	—	0.0015	—	0.0071	—	0.0015	0.0000	0.0055	0.0037	—
13	—	0.0068	—	0.0024	0.0018	—	0.0021	0.0004	0.0037	0.0076	0.0055	—
14	—	—	—	—	0.0004	—	0.0018	0.0020	0.0050	0.0106	0.0020	—
15	0.0084	0.0048	—	0.0013	0.0014	—	—	0.0003	0.0072	0.0047	0.0043	—
16	0.0066	—	—	0.0017	0.0019	—	—	0.0002	0.0048	0.0064	0.0017	—
17	0.0037	0.0071	0.0039	0.0030	0.0030	—	—	0.0021	0.0006	0.0036	0.0013	0.0011
18	0.0061	0.0038	0.0069	0.0039	—	—	—	0.0013	—	—	0.0014	0.0022
19	0.0034	—	0.0027	0.0058	0.0052	—	—	0.0000	0.0009	0.0013	0.0030	0.0017
20	—	—	0.0016	—	0.0030	—	0.0064	0.0028	0.0044	0.0008	—	0.0011
21	—	—	0.0020	0.0029	0.0065	—	0.0059	0.0013	0.0001	—	0.0010	0.0002
22	—	—	0.0053	0.0064	—	0.0010	0.0061	0.0030	0.0025	—	0.0014	0.0037
23	—	—	—	0.0088	0.0063	—	0.0023	—	0.0003	0.0012	0.0013	0.0061
24	—	—	—	0.0083	0.0039	—	0.0003	0.0012	0.0000	—	0.0007	—
25	—	—	—	0.0079	0.0163	—	0.0010	0.0016	0.0000	—	—	—
26	—	0.0097	0.0076	0.0111	0.0075	—	0.0045	0.0019	0.0001	—	—	0.0049
27	—	—	—	0.0075	—	—	0.0071	0.0026	0.0002	0.0001	—	—
28	—	0.0225	—	0.0090	0.0075	—	—	0.0016	0.0009	0.0000	—	—
29	—	—	—	0.0074	0.0028	—	0.0004	0.0027	0.0013	0.0003	—	0.0018
30	—	—	—	0.0061	0.0059	—	—	0.0028	0.0051	—	—	0.0155
31	—	—	0.0157	—	0.0027	—	0.0037	0.0008	—	—	—	0.0137

NOTE: — indicates data not available.

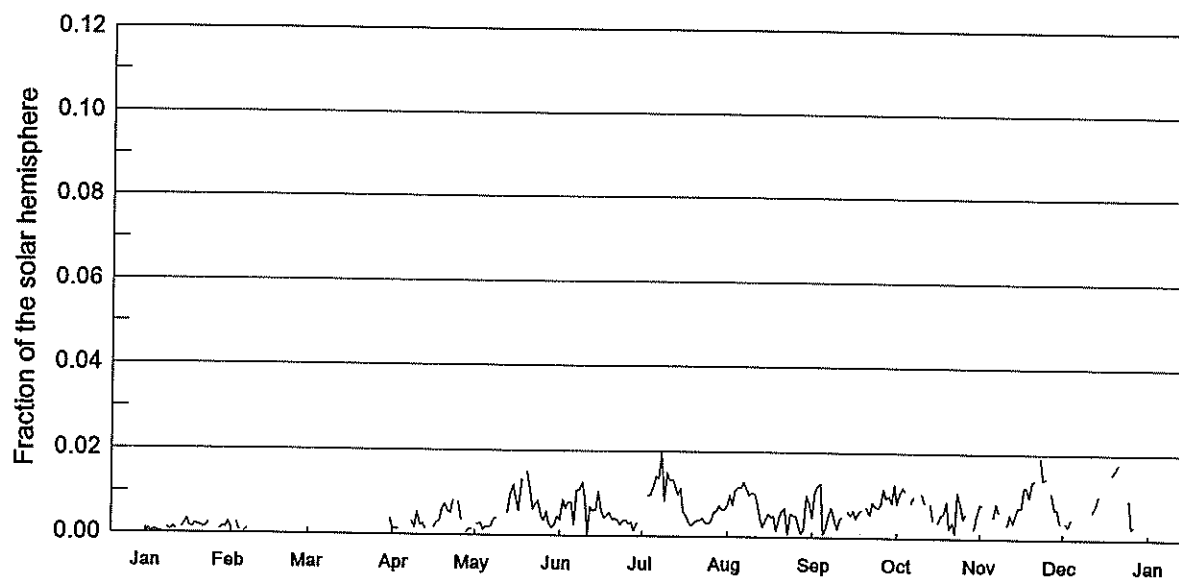
Mt Wilson Daily Calcium Plage
1923

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0160	--	--	--	0.0000	0.0026	0.0023	0.0026	0.0046	0.0048	0.0036	--
2	0.0097	--	--	--	--	0.0036	0.0019	0.0024	--	--	0.0039	0.0052
3	0.0012	--	--	--	0.0001	0.0040	0.0059	0.0023	--	0.0036	0.0040	0.0057
4	--	0.0001	0.0024	--	0.0003	0.0050	0.0019	0.0055	0.0047	0.0040	0.0089	0.0104
5	0.0028	--	0.0005	--	0.0000	0.0020	0.0028	0.0036	0.0057	0.0028	0.0083	0.0066
6	0.0027	0.0029	--	--	0.0016	0.0023	0.0024	0.0015	0.0049	--	0.0073	--
7	0.0006	--	0.0009	--	0.0005	0.0034	0.0013	0.0026	0.0011	0.0026	--	--
8	0.0008	--	--	--	--	0.0012	0.0016	0.0042	0.0063	0.0006	--	--
9	0.0014	--	--	--	0.0025	0.0003	0.0017	0.0030	0.0039	0.0049	--	--
10	0.0009	--	--	0.0018	0.0009	0.0018	0.0018	0.0014	--	0.0051	0.0076	--
11	0.0000	--	--	0.0056	--	0.0003	--	0.0037	--	0.0044	0.0075	0.0047
12	0.0057	--	--	0.0016	0.0003	0.0014	0.0023	0.0024	--	--	0.0079	--
13	--	--	--	0.0048	0.0013	0.0003	0.0049	0.0017	--	0.0036	0.0097	0.0019
14	--	0.0011	--	0.0013	0.0022	--	0.0027	0.0022	--	0.0031	--	--
15	--	--	0.0014	0.0022	0.0000	--	0.0026	--	0.0033	0.0038	0.0056	0.0021
16	--	0.0053	0.0022	--	0.0011	0.0020	0.0030	0.0022	0.0024	0.0023	0.0026	--
17	0.0017	0.0008	0.0024	--	0.0004	--	0.0031	0.0059	0.0023	0.0026	0.0033	--
18	--	0.0044	0.0036	--	--	--	0.0033	0.0047	0.0009	0.0020	0.0028	--
19	--	--	0.0035	0.0028	--	--	--	0.0056	0.0007	0.0024	0.0017	0.0022
20	--	0.0071	0.0019	--	0.0027	0.0034	--	0.0075	0.0006	0.0007	--	0.0031
21	--	0.0007	--	0.0010	0.0033	0.0037	--	--	--	0.0033	0.0000	0.0031
22	--	--	0.0014	0.0025	--	0.0031	--	0.0039	--	0.0031	0.0074	0.0029
23	--	0.0040	0.0030	0.0036	0.0029	0.0048	0.0055	--	0.0042	0.0029	--	--
24	--	0.0072	0.0010	0.0004	0.0020	0.0051	0.0043	--	0.0031	0.0031	0.0054	0.0064
25	--	--	--	0.0017	0.0000	0.0029	0.0053	0.0013	--	0.0050	0.0005	--
26	0.0041	--	--	0.0013	0.0020	0.0032	0.0000	0.0046	0.0050	0.0079	0.0086	--
27	0.0006	--	0.0010	0.0027	0.0009	0.0043	--	0.0029	0.0043	0.0070	0.0062	0.0084
28	--	0.0009	0.0012	0.0040	0.0007	0.0037	--	--	0.0045	0.0071	--	--
29	--	--	0.0021	0.0012	0.0007	--	--	0.0010	--	0.0011	--	--
30	--	--	--	--	--	0.0023	--	0.0042	0.0059	--	--	0.0035
31	--	--	--	--	0.0014	--	0.0043	0.0044	--	--	--	0.0028

NOTE: -- indicates data not available.

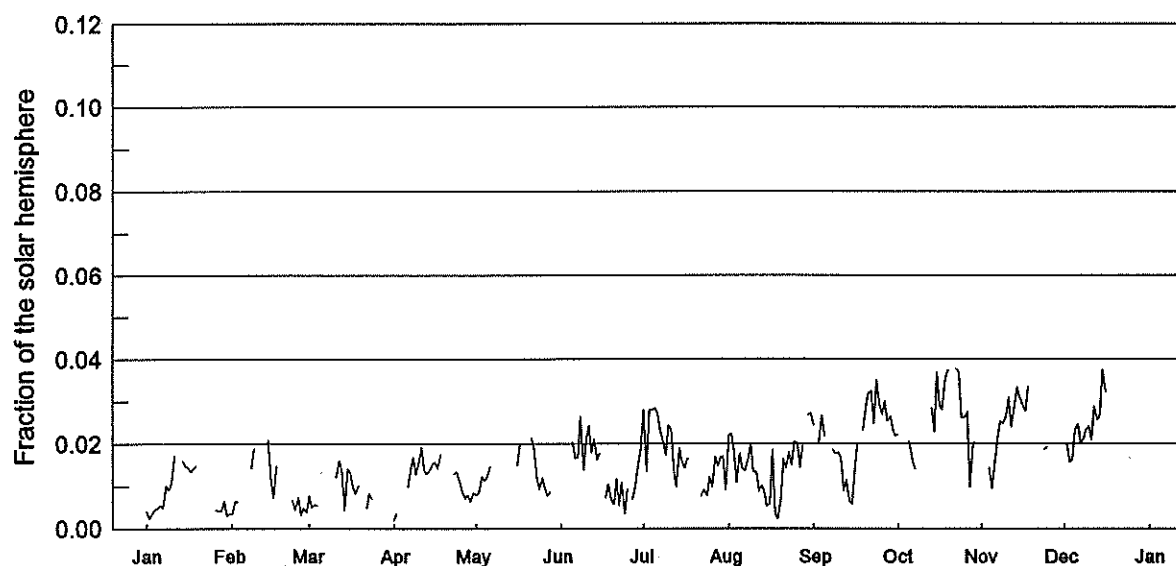
Mt Wilson Daily Calcium Plage 1924

37
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0001	0.0012	--	0.0014	0.0026	0.0084	--	0.0098	0.0106	0.0082	0.0079	0.0038
2	0.0009	--	--	0.0012	0.0027	0.0063	0.0095	0.0075	0.0121	0.0103	--	0.0028
3	0.0003	0.0024	--	--	0.0012	0.0079	0.0097	0.0110	0.0127	0.0120	0.0069	0.0047
4	0.0006	0.0005	--	--	0.0020	0.0077	0.0120	0.0118	0.0005	0.0111	--	--
5	0.0005	--	--	--	0.0018	0.0026	0.0141	0.0117	0.0019	--	0.0052	--
6	0.0001	0.0004	--	--	0.0023	0.0108	0.0137	0.0129	0.0053	0.0084	0.0081	--
7	0.0002	0.0012	--	0.0030	0.0039	0.0108	0.0197	0.0114	0.0069	0.0098	0.0061	--
8	--	--	--	0.0017	0.0039	0.0125	0.0084	0.0098	0.0047	--	--	0.0078
9	0.0011	--	--	0.0054	--	0.0091	0.0150	0.0105	0.0020	--	--	--
10	0.0006	--	--	0.0022	0.0053	0.0002	0.0131	0.0102	0.0042	0.0105	0.0032	--
11	0.0014	0.0016	--	0.0026	--	0.0068	0.0134	0.0075	0.0049	0.0081	0.0056	0.0065
12	0.0007	--	--	0.0014	0.0053	0.0059	0.0121	0.0042	--	--	0.0037	0.0082
13	--	--	--	--	0.0095	0.0060	0.0099	0.0023	0.0060	0.0080	0.0057	0.0104
14	0.0014	--	--	--	0.0119	0.0105	0.0114	0.0039	0.0052	0.0041	0.0074	--
15	0.0021	--	--	0.0018	0.0087	0.0062	0.0059	0.0054	0.0063	--	0.0073	--
16	0.0033	--	--	0.0027	0.0057	0.0042	0.0046	0.0046	0.0045	0.0038	0.0123	--
17	0.0016	--	--	0.0033	0.0133	0.0047	0.0032	0.0049	0.0057	0.0053	0.0120	--
18	0.0013	--	--	0.0061	--	0.0055	0.0024	0.0013	0.0065	0.0058	0.0098	0.0154
19	0.0023	--	--	0.0073	0.0151	0.0039	0.0031	0.0046	--	0.0086	0.0135	0.0163
20	0.0018	--	--	0.0056	0.0107	0.0041	0.0037	0.0061	0.0070	0.0022	0.0140	0.0179
21	0.0018	--	--	0.0052	0.0061	0.0036	0.0037	0.0067	0.0055	0.0037	--	--
22	0.0014	--	--	0.0081	0.0072	0.0025	0.0044	0.0005	0.0083	0.0010	0.0191	0.0186
23	0.0016	--	--	--	0.0081	0.0036	0.0032	0.0054	0.0074	0.0109	0.0139	--
24	0.0025	--	--	0.0078	0.0046	0.0038	0.0028	0.0052	0.0069	0.0085	0.0143	0.0092
25	--	--	--	0.0035	0.0035	0.0027	0.0034	0.0048	0.0078	0.0046	--	0.0026
26	--	--	--	--	0.0056	0.0032	0.0057	0.0026	0.0115	0.0057	0.0109	0.0029
27	--	--	--	0.0005	0.0027	0.0012	0.0058	0.0007	0.0093	--	0.0069	--
28	0.0009	--	--	0.0013	0.0018	0.0030	0.0073	0.0020	0.0098	--	0.0069	0.0030
29	0.0016	--	--	0.0013	0.0025	--	0.0063	0.0098	0.0081	0.0022	0.0037	--
30	0.0013	--	0.0038	--	0.0045	--	0.0064	0.0078	0.0125	0.0054	--	0.0031
31	0.0027	--	0.0013	--	0.0036	--	0.0072	0.0045	--	0.0080	--	--

NOTE: -- indicates data not available.

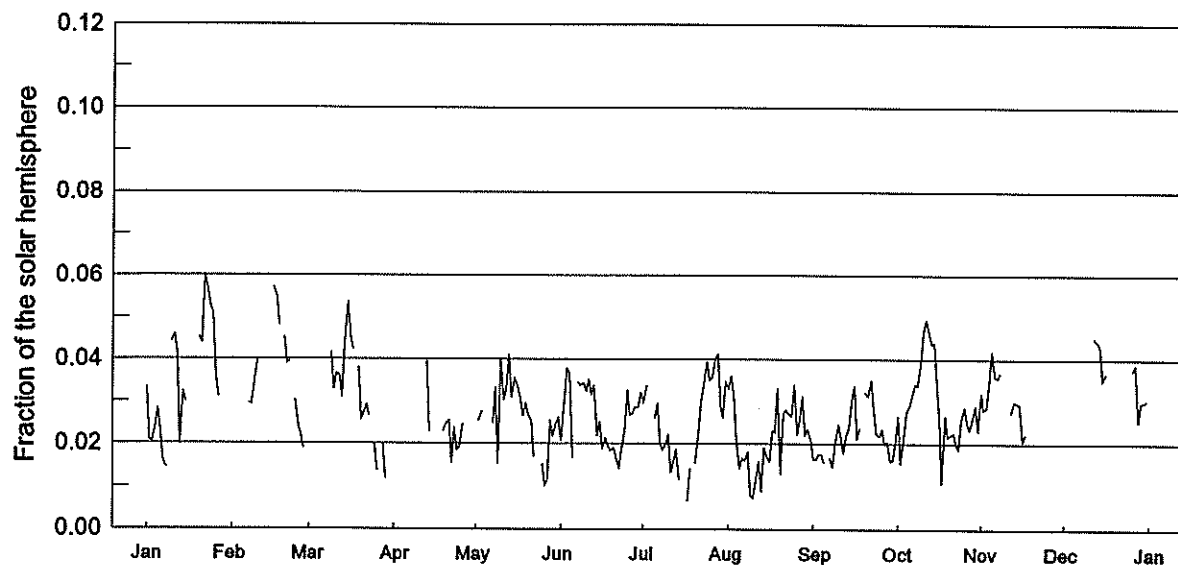
Mt Wilson Daily Calcium Plage
1925

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0040	0.0035	0.0077	0.0019	0.0078	--	0.0279	0.0220	0.0243	0.0219	--	--
2	0.0023	0.0063	0.0050	0.0036	0.0083	--	0.0135	0.0223	--	0.0223	0.0215	0.0199
3	0.0036	0.0064	0.0056	--	0.0122	--	0.0279	0.0182	0.0198	--	--	0.0158
4	0.0045	--	0.0054	--	0.0114	--	0.0279	0.0109	0.0267	--	0.0143	0.0161
5	0.0049	--	--	--	0.0122	0.0203	0.0283	0.0177	0.0217	--	0.0095	0.0232
6	0.0055	--	--	0.0099	0.0147	0.0167	0.0270	0.0141	--	0.0206	0.0160	0.0246
7	0.0049	--	--	0.0140	--	0.0168	0.0231	0.0137	--	0.0164	0.0217	0.0201
8	0.0101	0.0143	--	0.0168	0.0097	0.0263	0.0207	0.0163	0.0185	0.0139	0.0253	0.0209
9	0.0091	0.0189	--	0.0128	--	0.0138	0.0173	0.0200	0.0177	--	0.0247	0.0234
10	0.0106	--	--	0.0151	--	0.0211	0.0242	0.0133	0.0179	--	0.0266	0.0241
11	0.0173	--	0.0121	0.0192	0.0168	0.0243	0.0235	0.0134	0.0165	--	0.0310	0.0207
12	--	--	0.0160	0.0136	--	0.0179	0.0128	0.0088	0.0089	--	0.0239	0.0288
13	--	--	0.0133	0.0129	0.0171	0.0211	0.0098	0.0101	0.0115	--	0.0290	0.0256
14	0.0159	0.0208	0.0043	0.0137	--	0.0163	0.0190	0.0087	0.0063	0.0283	0.0334	0.0269
15	0.0147	0.0120	0.0141	0.0151	--	0.0179	0.0157	0.0053	0.0057	0.0229	0.0309	0.0375
16	0.0144	0.0073	0.0131	0.0156	0.0148	--	0.0143	0.0058	0.0135	0.0368	0.0289	0.0322
17	0.0133	0.0148	0.0099	0.0142	0.0201	0.0073	0.0167	0.0185	0.0199	0.0292	0.0277	--
18	0.0141	--	0.0081	0.0176	--	0.0104	--	0.0033	--	0.0280	0.0336	--
19	0.0148	--	0.0102	--	--	0.0071	--	0.0022	0.0232	0.0353	--	--
20	--	0.0052	--	--	--	0.0057	--	0.0066	0.0279	0.0374	--	--
21	0.0069	--	--	--	0.0214	0.0116	--	0.0163	0.0319	--	--	--
22	--	--	0.0048	--	0.0189	0.0054	0.0077	0.0142	0.0325	--	--	--
23	0.0035	0.0065	0.0082	0.0130	0.0121	0.0109	0.0091	0.0180	0.0247	0.0376	--	--
24	--	0.0044	0.0070	0.0133	0.0093	0.0034	0.0077	0.0148	0.0350	0.0370	0.0187	--
25	--	0.0073	--	0.0112	0.0119	0.0093	0.0121	0.0204	0.0290	0.0262	0.0194	--
26	0.0044	0.0032	--	0.0085	0.0093	--	0.0098	0.0201	0.0270	0.0262	--	--
27	0.0041	0.0048	--	0.0071	0.0077	0.0069	0.0169	0.0144	0.0300	0.0275	0.0265	--
28	0.0041	0.0037	--	0.0078	0.0086	0.0099	0.0147	0.0197	0.0253	0.0098	--	0.0081
29	0.0065	--	--	0.0063	--	0.0155	0.0169	--	0.0263	0.0201	--	--
30	0.0028	--	--	0.0083	0.0054	0.0191	0.0170	0.0268	0.0230	0.0202	--	--
31	0.0034	--	--	--	--	--	0.0091	0.0272	--	--	--	0.0227

NOTE: -- indicates data not available.

Mt Wilson Daily Calcium Plage 1926

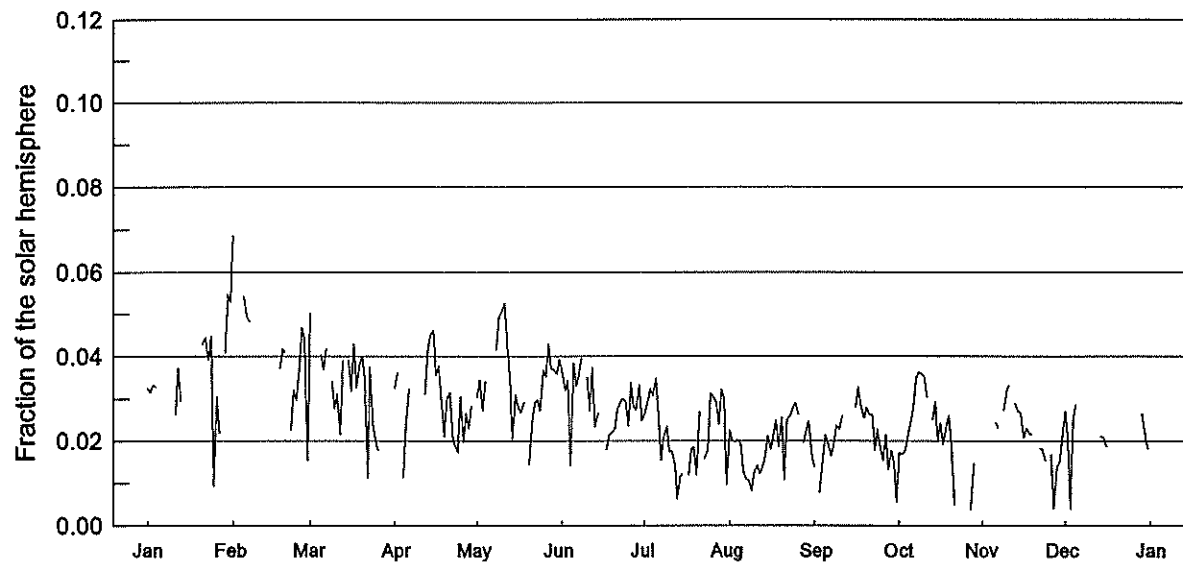
39
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0333	--	0.0258	--	--	0.0208	0.0296	0.0331	0.0163	0.0205	0.0320	--
2	0.0208	--	--	--	0.0255	0.0298	0.0339	0.0361	0.0163	0.0266	0.0280	--
3	0.0204	0.0170	--	--	0.0277	0.0379	--	0.0313	0.0175	0.0153	0.0285	--
4	0.0239	--	--	--	--	0.0369	--	0.0211	0.0175	0.0215	0.0342	--
5	0.0283	0.0240	--	--	--	0.0167	0.0260	0.0143	0.0155	0.0276	0.0418	--
6	0.0232	--	--	--	--	--	0.0296	0.0166	--	0.0287	0.0359	--
7	0.0160	0.0296	--	--	0.0248	0.0346	0.0201	0.0161	0.0167	0.0316	0.0355	--
8	0.0143	0.0292	--	--	0.0332	0.0339	0.0185	0.0181	0.0145	0.0342	0.0369	--
9	--	0.0343	0.0416	--	0.0153	0.0344	0.0199	0.0079	0.0198	0.0339	--	0.0388
10	0.0443	0.0397	0.0329	--	0.0399	0.0325	0.0221	0.0072	0.0245	0.0388	0.0307	--
11	0.0460	--	0.0366	--	0.0304	0.0353	0.0133	0.0119	0.0215	0.0465	--	--
12	0.0411	--	0.0362	--	0.0330	0.0316	0.0164	0.0159	0.0179	0.0495	0.0274	0.0451
13	0.0198	--	0.0310	0.0396	0.0411	0.0338	0.0186	0.0088	0.0219	0.0467	0.0301	0.0442
14	0.0324	--	0.0440	0.0228	0.0309	0.0218	0.0115	0.0189	0.0241	0.0435	0.0296	0.0431
15	0.0299	--	0.0537	--	0.0355	0.0252	--	0.0173	0.0303	0.0440	0.0294	0.0351
16	--	0.0570	0.0457	0.0383	0.0338	0.0188	--	0.0157	0.0339	0.0343	0.0205	0.0367
17	--	0.0549	0.0423	--	0.0315	0.0214	0.0066	0.0231	0.0211	0.0259	0.0223	--
18	0.0508	0.0479	--	--	0.0266	0.0195	0.0142	0.0227	0.0238	0.0108	--	--
19	--	--	0.0381	0.0230	0.0296	0.0183	--	0.0332	--	0.0266	0.0234	--
20	0.0452	0.0452	0.0257	0.0247	0.0268	0.0190	0.0155	0.0129	0.0321	0.0215	--	--
21	0.0439	0.0390	0.0275	0.0255	0.0255	0.0166	0.0226	0.0272	0.0313	0.0220	--	--
22	0.0601	0.0398	0.0293	0.0155	0.0170	0.0141	0.0302	0.0280	0.0351	0.0226	--	--
23	0.0565	--	0.0264	0.0238	--	0.0186	0.0339	0.0270	0.0281	0.0198	--	--
24	0.0526	0.0304	--	0.0185	--	0.0230	0.0395	0.0264	0.0224	0.0187	0.0104	--
25	0.0512	0.0239	0.0198	0.0189	0.0151	0.0326	0.0350	0.0340	0.0218	0.0257	--	--
26	0.0356	0.0222	0.0135	0.0247	0.0101	0.0267	0.0356	0.0222	0.0233	0.0286	--	0.0375
27	0.0309	0.0188	--	--	0.0115	0.0271	0.0405	0.0259	0.0199	0.0250	0.0295	0.0387
28	--	--	0.0200	--	0.0255	0.0287	0.0413	0.0313	0.0204	0.0234	--	0.0251
29	0.0285	--	0.0117	--	0.0217	0.0287	0.0289	0.0220	0.0159	0.0262	--	0.0297
30	--	--	--	0.0256	0.0249	0.0321	0.0260	0.0235	0.0162	0.0289	--	0.0298
31	--	--	--	--	0.0260	--	0.0347	0.0211	--	0.0231	--	0.0302

NOTE: -- indicates data not available.

Mt Wilson Daily Calcium Plage 1927

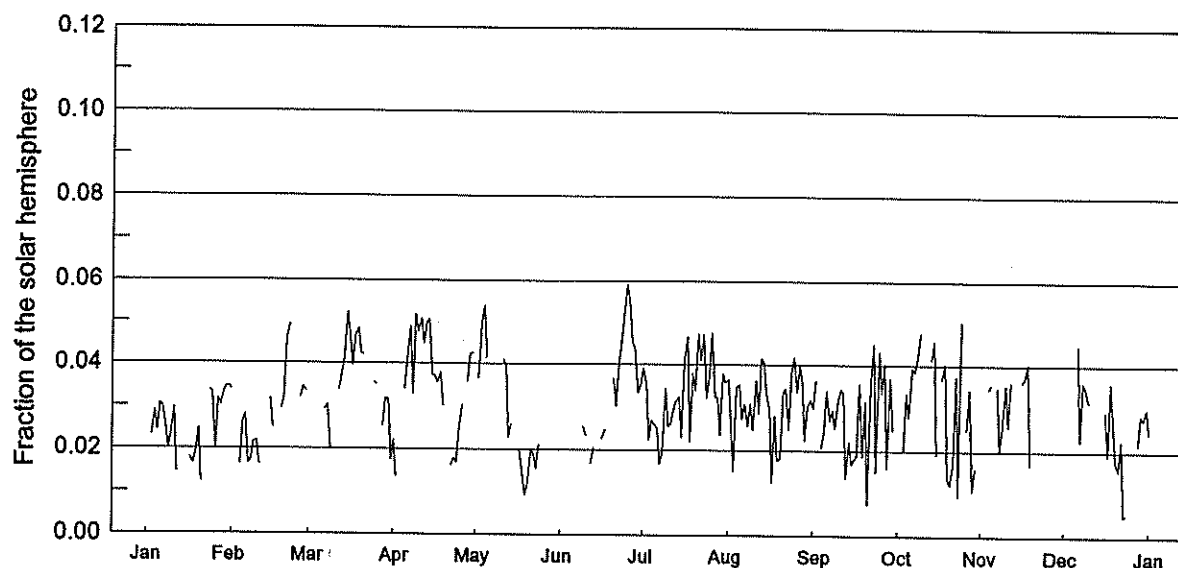


Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0325	0.0688	0.0504	0.0326	0.0305	0.0369	0.0263	0.0225	0.0138	0.0054	--	0.0270
2	0.0315	--	--	0.0364	0.0344	0.0320	0.0292	0.0202	--	0.0173	--	0.0200
3	0.0332	--	--	--	0.0272	0.0344	0.0323	0.0197	0.0079	0.0167	0.0285	0.0039
4	0.0329	--	--	0.0113	0.0343	0.0143	0.0308	0.0203	0.0156	0.0175	--	0.0252
5	--	0.0544	0.0405	0.0236	--	0.0383	0.0349	0.0194	0.0214	0.0209	--	0.0287
6	--	0.0497	0.0369	0.0324	--	0.0330	0.0258	0.0129	0.0196	0.0238	0.0243	--
7	--	0.0481	0.0420	--	--	0.0355	0.0155	0.0111	0.0163	0.0280	0.0230	0.0244
8	--	--	--	--	0.0417	0.0398	0.0209	0.0104	0.0193	0.0347	--	--
9	--	0.0551	0.0341	--	0.0494	--	0.0234	0.0083	0.0237	0.0364	0.0273	--
10	--	--	0.0277	--	0.0505	0.0350	0.0174	0.0125	0.0227	0.0359	0.0325	--
11	0.0264	--	0.0312	--	0.0526	0.0271	0.0176	0.0143	0.0260	0.0352	0.0332	--
12	0.0373	--	0.0215	0.0313	0.0426	0.0375	0.0141	0.0123	--	0.0303	--	--
13	0.0294	--	0.0391	0.0415	0.0355	0.0233	0.0062	0.0139	--	--	0.0288	--
14	--	--	--	0.0450	0.0205	0.0267	0.0117	0.0162	0.0304	0.0251	0.0270	0.0210
15	--	--	0.0391	0.0462	0.0311	--	0.0123	0.0212	--	0.0294	0.0267	0.0209
16	0.0358	--	0.0319	0.0356	0.0281	--	--	0.0181	0.0281	0.0199	0.0208	0.0186
17	--	--	0.0430	0.0378	0.0267	0.0179	0.0120	0.0215	0.0328	0.0242	0.0230	--
18	--	0.0373	0.0326	0.0287	0.0292	0.0213	0.0181	0.0249	0.0285	0.0192	0.0220	0.0121
19	--	0.0419	0.0382	0.0211	--	0.0220	0.0185	0.0186	0.0255	0.0233	0.0213	--
20	--	0.0408	0.0401	0.0302	0.0146	0.0228	0.0120	0.0256	0.0279	0.0260	--	--
21	0.0430	--	0.0353	0.0315	0.0250	0.0277	0.0270	0.0107	0.0264	0.0191	--	--
22	0.0444	0.0226	0.0112	0.0206	0.0291	0.0290	--	0.0251	0.0262	0.0046	0.0182	0.0081
23	0.0391	0.0321	0.0376	0.0188	0.0298	0.0301	0.0159	0.0259	0.0178	--	0.0178	--
24	0.0447	0.0295	0.0238	0.0173	0.0272	0.0292	0.0179	0.0277	0.0228	--	0.0153	--
25	0.0093	0.0370	0.0200	0.0306	0.0368	0.0235	0.0314	0.0291	0.0182	--	--	--
26	0.0306	0.0471	0.0177	0.0197	0.0354	0.0338	0.0306	0.0262	0.0155	--	0.0167	--
27	0.0217	0.0440	--	0.0265	0.0431	0.0282	0.0290	--	0.0215	--	0.0041	--
28	--	0.0154	--	0.0229	0.0372	0.0273	0.0240	0.0197	0.0133	0.0037	0.0139	--
29	0.0410	--	--	0.0283	0.0371	0.0332	0.0321	0.0224	0.0177	0.0149	0.0149	0.0265
30	0.0546	--	--	--	0.0359	0.0249	0.0304	0.0247	0.0146	--	0.0205	0.0222
31	0.0530	--	--	--	0.0393	--	0.0097	0.0164	--	--	--	0.0181

NOTE: -- Indicates data not available.

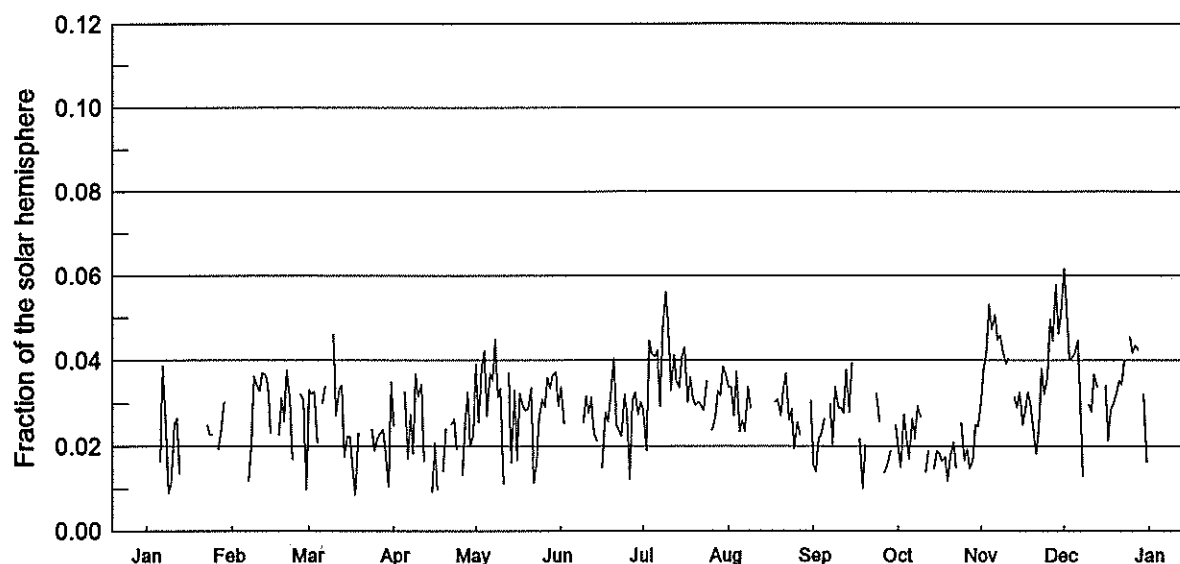
Mt Wilson Daily Calcium Plage 1928

41
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	0.0339	0.0184	0.0135	0.0367	--	0.0357	0.0261	0.0365	0.0287	--	--
2	--	--	--	--	0.0499	--	0.0224	0.0151	--	--	--	--
3	0.0232	--	--	--	0.0540	--	0.0270	0.0347	0.0207	0.0201	0.0346	--
4	0.0290	0.0164	--	0.0342	0.0416	--	0.0259	0.0353	0.0241	0.0335	0.0356	--
5	0.0244	0.0264	--	0.0431	--	--	0.0252	0.0274	0.0340	0.0280	--	0.0447
6	0.0305	0.0281	0.0293	0.0489	--	--	0.0168	0.0310	0.0272	0.0395	0.0347	0.0224
7	0.0300	0.0165	0.0303	0.0329	--	--	0.0191	0.0258	0.0294	0.0385	0.0198	0.0361
8	0.0251	0.0173	0.0198	0.0519	--	0.0255	0.0344	0.0309	0.0253	0.0415	0.0255	0.0345
9	0.0201	0.0217	--	0.0476	--	0.0233	0.0257	0.0249	0.0319	0.0480	0.0354	0.0315
10	0.0235	0.0219	--	0.0508	0.0411	--	0.0262	0.0364	0.0343	--	0.0258	--
11	0.0296	0.0162	0.0340	0.0449	0.0395	0.0168	0.0300	0.0288	0.0335	--	0.0363	0.0153
12	0.0145	--	0.0375	0.0498	0.0227	0.0206	0.0315	0.0415	0.0137	--	--	--
13	--	0.0236	0.0412	0.0507	0.0260	--	0.0324	0.0407	0.0221	0.0414	--	--
14	--	--	0.0523	0.0375	--	--	0.0230	0.0334	0.0169	0.0458	--	--
15	0.0232	0.0317	0.0466	0.0372	--	0.0228	0.0409	0.0297	0.0180	0.0191	0.0362	0.0292
16	--	0.0248	0.0396	0.0356	0.0202	0.0249	0.0465	0.0125	0.0187	--	0.0374	0.0191
17	0.0179	--	0.0467	0.0379	0.0140	--	0.0221	0.0280	0.0357	0.0369	0.0403	0.0360
18	0.0165	--	0.0484	0.0302	0.0094	--	0.0381	0.0177	0.0186	0.0404	0.0167	0.0271
19	0.0196	0.0294	0.0427	--	0.0120	0.0367	0.0340	0.0181	0.0315	0.0139	--	0.0176
20	0.0247	0.0320	0.0422	--	0.0200	0.0303	0.0473	0.0336	0.0074	0.0121	--	0.0158
21	0.0121	0.0459	--	0.0163	0.0190	0.0401	0.0411	0.0344	0.0366	0.0168	0.0227	0.0225
22	--	0.0494	0.0387	0.0178	0.0156	0.0454	0.0473	0.0250	0.0450	0.0375	--	0.0049
23	--	--	--	0.0168	0.0212	0.0536	0.0323	0.0385	0.0151	0.0093	--	0.0053
24	0.0337	--	0.0356	0.0249	--	0.0592	0.0369	0.0418	0.0432	0.0505	0.0031	--
25	0.0331	--	0.0351	0.0306	--	0.0543	0.0477	0.0337	0.0333	--	--	--
26	0.0198	0.0321	--	--	--	0.0453	0.0324	0.0399	0.0404	0.0250	--	--
27	0.0317	0.0346	0.0255	0.0359	--	0.0439	0.0323	0.0362	0.0160	0.0343	--	0.0216
28	0.0304	0.0334	0.0318	0.0425	--	0.0335	0.0236	0.0224	0.0370	0.0107	0.0024	0.0285
29	0.0335	--	0.0317	0.0427	--	0.0351	0.0379	0.0302	0.0248	0.0160	--	0.0275
30	0.0346	--	0.0174	--	--	0.0392	0.0360	0.0318	--	--	0.0086	0.0299
31	0.0345	--	0.0221	--	--	--	0.0365	0.0300	--	--	--	0.0243

NOTE: -- indicates data not available.

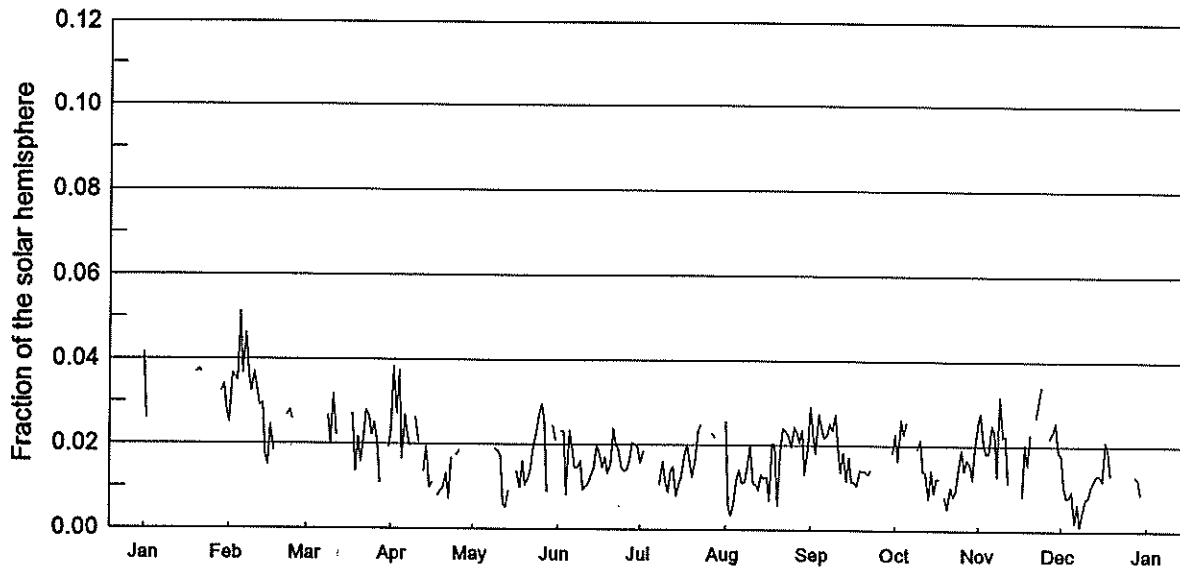
Mt Wilson Daily Calcium Plage
1929

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	—	—	0.0332	0.0247	0.0391	0.0339	0.0282	0.0337	0.0156	0.0250	0.0311	0.0616
2	0.0397	—	0.0323	—	0.0256	0.0252	0.0190	0.0339	0.0141	0.0196	0.0373	0.0512
3	—	0.0356	0.0328	—	0.0383	—	0.0448	0.0272	0.0215	0.0151	0.0424	0.0402
4	0.0351	—	0.0207	—	0.0423	—	0.0414	0.0374	0.0232	0.0275	0.0531	0.0407
5	—	—	—	0.0327	0.0271	—	0.0410	0.0234	0.0265	0.0219	0.0472	0.0416
6	0.0165	—	0.0301	0.0171	0.0370	—	0.0424	0.0260	—	0.0171	0.0508	0.0447
7	0.0389	0.0118	0.0342	0.0274	0.0353	—	0.0292	0.0235	0.0298	0.0265	0.0449	0.0293
8	0.0235	0.0200	—	0.0184	0.0451	—	0.0474	0.0339	0.0205	0.0218	0.0459	0.0129
9	0.0090	0.0362	—	0.0369	0.0315	0.0257	0.0561	0.0288	0.0338	0.0294	0.0422	—
10	0.0112	0.0340	0.0461	0.0317	0.0335	0.0319	0.0468	—	0.0290	0.0269	0.0393	0.0297
11	0.0251	0.0329	0.0271	0.0344	0.0111	0.0278	0.0331	—	0.0289	—	0.0407	0.0282
12	0.0265	0.0372	0.0333	0.0165	—	0.0314	0.0413	—	0.0277	0.0140	—	0.0369
13	0.0135	0.0366	0.0342	—	0.0371	0.0234	0.0354	—	0.0377	0.0191	0.0315	0.0338
14	—	0.0343	0.0176	—	0.0162	0.0212	0.0337	—	0.0279	—	0.0290	—
15	—	0.0230	0.0225	0.0093	0.0330	—	0.0408	—	0.0397	0.0148	0.0328	—
16	—	—	0.0222	0.0207	0.0169	0.0150	0.0431	—	—	0.0190	0.0250	0.0342
17	—	—	0.0147	0.0096	0.0324	0.0279	0.0303	—	—	0.0184	0.0285	0.0213
18	—	0.0227	0.0085	—	0.0293	0.0258	0.0361	0.0304	0.0217	0.0166	0.0327	0.0286
19	—	0.0312	0.0232	0.0141	0.0283	0.0318	0.0314	0.0309	0.0101	0.0176	0.0296	0.0298
20	—	0.0259	—	0.0243	0.0287	0.0405	0.0296	0.0272	0.0205	0.0120	0.0245	0.0319
21	—	0.0378	—	—	0.0337	0.0250	0.0303	0.0333	—	0.0174	0.0182	0.0354
22	—	0.0311	—	0.0251	0.0114	0.0237	0.0296	0.0371	0.0202	0.0210	0.0247	0.0344
23	0.0248	0.0169	—	0.0263	0.0158	0.0225	0.0283	0.0260	—	0.0149	0.0381	0.0400
24	0.0227	—	0.0240	0.0192	0.0267	0.0322	0.0354	0.0287	0.0324	—	0.0322	—
25	0.0228	—	0.0190	—	0.0310	0.0269	—	0.0194	0.0256	0.0255	0.0361	0.0456
26	—	0.0321	0.0216	0.0132	0.0293	0.0122	0.0238	0.0257	—	0.0166	0.0497	0.0419
27	0.0192	0.0308	0.0230	0.0250	0.0360	0.0307	0.0267	0.0227	0.0140	0.0194	0.0446	0.0436
28	0.0232	0.0098	0.0239	0.0328	0.0336	0.0326	0.0329	—	0.0156	0.0149	0.0576	0.0425
29	0.0305	—	0.0190	0.0199	0.0366	0.0275	0.0318	0.0292	0.0190	0.0168	0.0462	—
30	—	—	0.0105	0.0230	0.0373	0.0303	0.0386	—	—	0.0252	0.0512	0.0323
31	—	—	0.0350	—	0.0294	—	0.0368	0.0307	—	0.0246	—	0.0164

NOTE: — indicates data not available.

Mt Wilson Daily Calcium Plage 1930

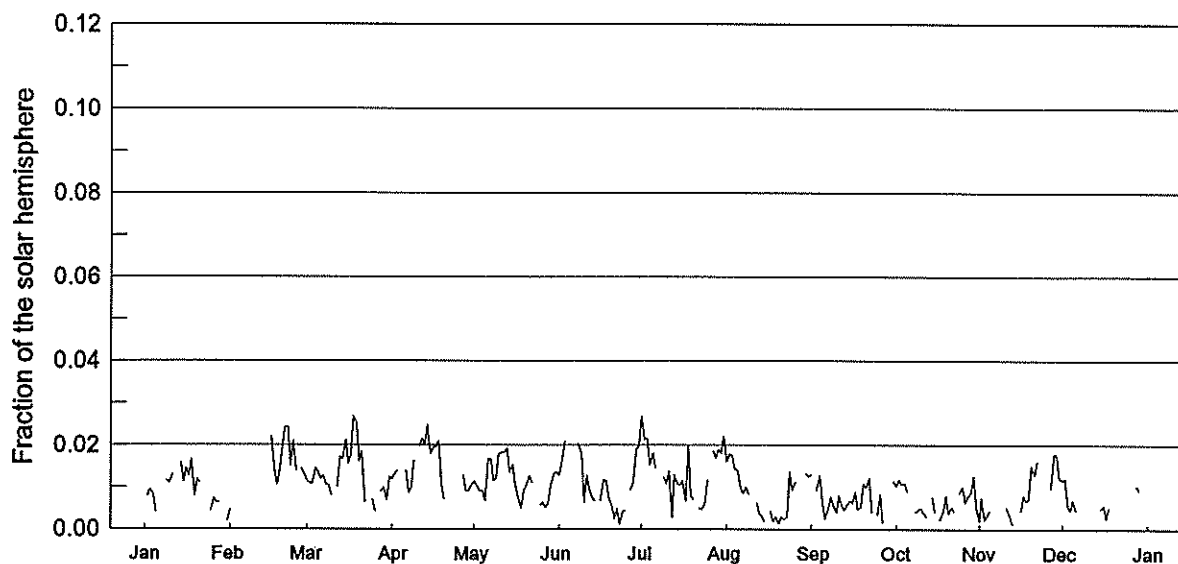
43
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0415	0.0250	—	0.0230	—	—	0.0157	0.0257	0.0291	0.0185	0.0258	0.0179
2	0.0258	0.0366	—	0.0383	—	0.0234	0.0186	0.0059	0.0226	0.0227	0.0278	0.0105
3	—	0.0358	—	0.0271	—	0.0230	—	0.0035	0.0182	0.0163	0.0204	0.0079
4	—	0.0351	—	0.0375	—	0.0082	—	0.0054	0.0274	0.0262	0.0184	0.0080
5	—	0.0513	—	0.0165	—	0.0235	—	0.0120	0.0242	0.0226	0.0184	0.0093
6	—	0.0367	—	0.0268	—	0.0196	—	0.0141	0.0219	0.0255	0.0249	0.0020
7	0.0305	0.0463	0.0200	0.0219	—	0.0146	—	0.0111	0.0225	—	0.0232	0.0063
8	—	0.0371	—	0.0195	—	0.0145	0.0107	0.0114	0.0251	—	0.0129	0.0010
9	—	0.0324	0.0267	—	0.0189	0.0161	0.0160	0.0152	0.0237	—	0.0317	0.0042
10	—	0.0371	0.0198	0.0264	0.0186	0.0093	0.0115	0.0198	0.0273	0.0194	0.0221	0.0077
11	—	0.0330	0.0318	0.0204	0.0174	0.0101	0.0087	0.0109	0.0196	0.0214	0.0224	0.0080
12	—	0.0291	0.0220	—	0.0058	0.0108	0.0142	0.0109	0.0136	0.0141	0.0112	0.0103
13	—	0.0297	—	0.0137	0.0052	0.0125	0.0149	0.0094	0.0184	0.0137	—	0.0121
14	—	0.0175	—	0.0195	0.0091	0.0145	0.0080	0.0131	0.0116	0.0076	0.0138	0.0131
15	—	0.0151	—	0.0099	—	0.0199	0.0106	0.0122	0.0172	0.0142	—	0.0132
16	0.0283	0.0245	—	0.0111	—	0.0183	0.0124	0.0125	0.0115	0.0087	—	0.0119
17	—	0.0183	—	—	0.0137	0.0147	0.0177	0.0069	0.0115	0.0122	0.0081	0.0210
18	—	—	0.0271	0.0080	0.0099	0.0171	0.0200	0.0203	0.0104	0.0123	0.0203	0.0191
19	—	—	0.0137	0.0089	0.0160	0.0134	0.0160	0.0201	0.0141	—	0.0155	0.0132
20	0.0369	—	0.0217	0.0097	0.0105	0.0154	0.0126	0.0058	0.0140	0.0079	0.0229	—
21	0.0376	—	0.0157	0.0131	0.0121	0.0240	0.0166	0.0187	0.0140	0.0052	—	0.0219
22	0.0368	0.0269	0.0222	0.0072	0.0146	0.0198	0.0236	0.0241	0.0132	0.0101	0.0269	—
23	—	0.0280	0.0280	0.0170	0.0199	0.0191	0.0249	0.0232	0.0142	0.0081	0.0306	—
24	—	0.0258	0.0267	—	0.0225	0.0145	—	0.0222	—	0.0090	0.0343	0.0178
25	—	—	0.0222	0.0175	0.0275	0.0138	0.0276	0.0197	—	0.0141	—	—
26	—	—	0.0252	0.0186	0.0295	0.0141	—	0.0244	0.0176	0.0191	—	0.0153
27	0.0278	0.0228	0.0201	—	0.0249	0.0162	0.0228	0.0230	—	0.0141	0.0220	—
28	—	—	0.0108	—	0.0088	0.0205	0.0218	0.0206	—	0.0167	0.0233	0.0128
29	0.0324	—	—	—	—	0.0200	—	0.0236	—	0.0156	0.0257	0.0124
30	0.0341	—	—	—	0.0245	0.0196	0.0284	0.0132	—	0.0121	0.0191	0.0086
31	0.0281	—	0.0194	—	0.0211	—	—	0.0194	—	0.0199	—	—

NOTE: — indicates data not available.

Mt Wilson Daily Calcium Plage 1931

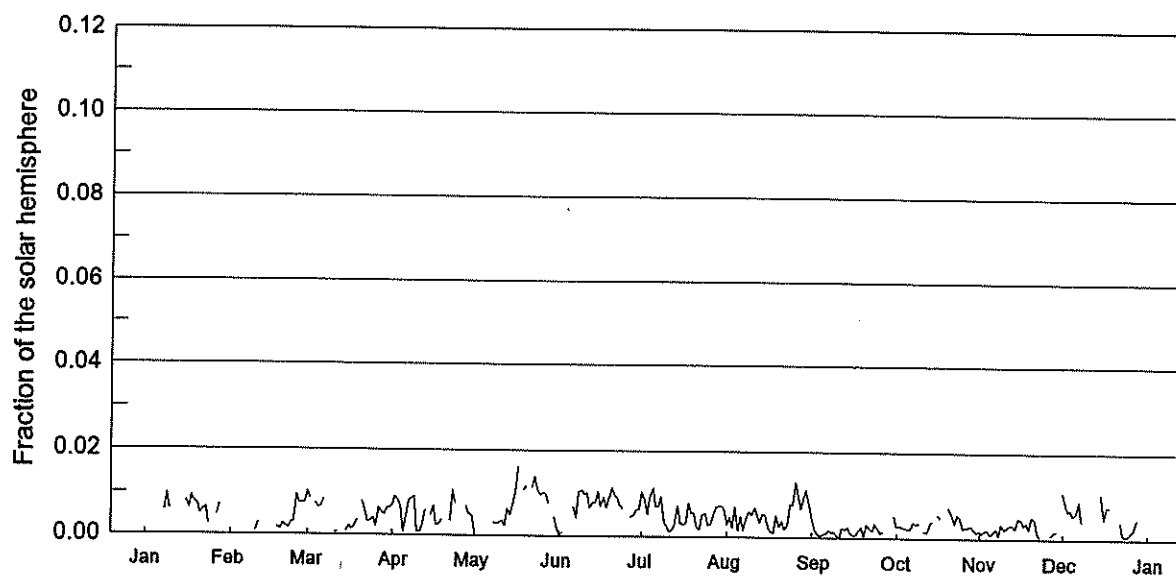


Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	—	0.0046	0.0115	0.0119	0.0113	0.0129	0.0269	0.0162	0.0128	0.0113	0.0020	0.0116
2	0.0078	—	0.0109	0.0132	0.0104	0.0168	0.0214	0.0178	—	0.0102	0.0074	0.0120
3	0.0093	—	0.0109	0.0141	0.0089	0.0210	0.0216	0.0175	0.0092	0.0118	0.0023	0.0055
4	0.0084	—	0.0146	—	0.0090	—	0.0155	0.0144	0.0128	0.0106	0.0032	0.0045
5	0.0039	—	0.0136	—	0.0068	—	0.0181	0.0139	0.0063	0.0109	0.0045	0.0068
6	—	—	0.0119	0.0139	0.0169	—	0.0145	0.0100	0.0026	0.0088	—	0.0044
7	—	—	0.0127	0.0086	0.0167	—	—	0.0085	0.0048	—	—	—
8	—	—	0.0108	0.0096	0.0117	0.0203	—	0.0100	0.0075	—	0.0064	—
9	0.0115	—	0.0103	0.0165	0.0120	0.0178	0.0123	0.0082	0.0057	0.0041	—	—
10	0.0111	—	0.0078	—	0.0179	0.0063	0.0109	—	0.0041	0.0046	—	—
11	0.0131	—	—	0.0199	0.0184	0.0128	0.0138	—	0.0079	0.0050	0.0052	0.0081
12	—	—	0.0100	0.0216	0.0183	0.0094	0.0027	0.0062	0.0057	0.0037	0.0034	—
13	—	—	0.0173	0.0200	0.0193	0.0075	0.0128	0.0034	0.0045	0.0029	0.0010	—
14	0.0157	—	0.0166	0.0247	0.0136	0.0067	0.0107	0.0030	0.0059	—	—	—
15	0.0114	—	0.0212	0.0181	0.0153	—	0.0104	0.0018	0.0067	0.0076	—	0.0048
16	0.0146	0.0220	0.0157	0.0192	0.0105	0.0068	0.0115	—	0.0061	0.0041	0.0044	0.0056
17	0.0127	0.0139	0.0175	0.0195	0.0075	0.0116	0.0067	0.0042	0.0088	—	0.0078	0.0025
18	0.0167	0.0106	0.0269	0.0209	0.0051	0.0115	0.0199	0.0018	0.0047	0.0023	0.0066	0.0052
19	0.0079	0.0140	0.0252	0.0107	0.0089	0.0076	0.0079	0.0029	0.0053	0.0042	0.0071	—
20	0.0119	0.0191	0.0162	0.0071	0.0103	0.0055	0.0070	0.0014	0.0108	0.0078	0.0150	—
21	0.0111	0.0242	0.0185	—	0.0127	0.0026	—	0.0029	0.0099	0.0037	0.0128	—
22	—	0.0242	0.0063	—	0.0111	0.0049	0.0050	0.0023	0.0121	0.0053	0.0162	—
23	0.0165	0.0152	—	—	—	0.0011	0.0047	0.0028	0.0039	0.0042	—	—
24	—	0.0210	—	—	—	0.0042	0.0061	0.0136	—	—	0.0155	—
25	0.0043	0.0138	0.0070	—	0.0057	0.0044	0.0118	0.0092	0.0035	0.0086	—	0.0131
26	0.0073	—	0.0041	—	0.0063	—	—	0.0113	0.0083	0.0100	—	—
27	0.0064	0.0144	—	0.0128	0.0051	0.0093	0.0185	—	0.0015	0.0064	0.0096	—
28	0.0063	0.0130	0.0089	0.0090	0.0062	0.0109	0.0170	—	—	0.0077	0.0179	0.0101
29	—	—	0.0099	0.0091	0.0104	0.0193	0.0189	—	0.0028	0.0086	0.0175	0.0090
30	—	—	0.0069	0.0105	0.0131	0.0197	0.0180	0.0131	—	0.0126	0.0121	—
31	0.0020	—	0.0124	—	0.0137	—	0.0221	0.0126	—	0.0053	—	—

NOTE: — indicates data not available.

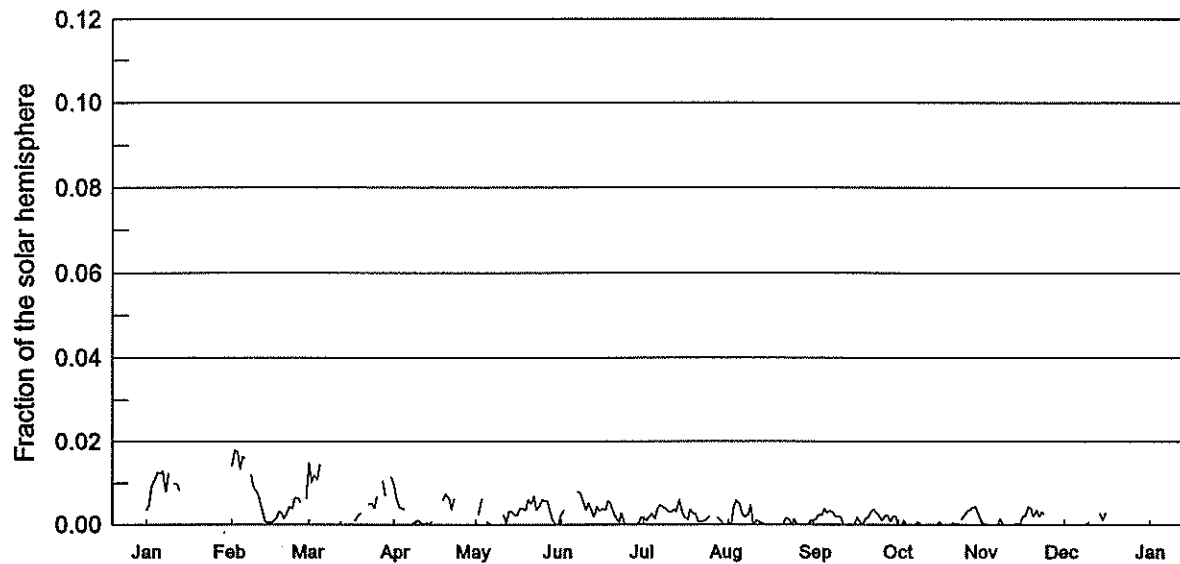
Mt Wilson Daily Calcium Plage 1932

45
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	--	0.0085	0.0090	--	0.0009	0.0085	0.0047	0.0020	0.0027	0.0011	0.0082
2	--	--	--	0.0082	--	--	0.0052	0.0023	0.0009	0.0028	0.0020	0.0065
3	--	0.0027	0.0073	0.0065	--	0.0023	0.0094	0.0070	0.0003	0.0027	0.0020	0.0066
4	--	--	0.0063	0.0005	--	--	0.0113	0.0015	0.0007	0.0023	0.0009	0.0054
5	--	--	0.0066	0.0050	0.0028	0.0068	0.0069	0.0048	0.0008	0.0023	0.0015	0.0062
6	--	--	0.0085	0.0081	--	0.0044	0.0070	0.0017	0.0017	0.0023	0.0024	0.0087
7	--	--	--	0.0086	0.0030	0.0103	0.0093	0.0046	0.0011	0.0038	0.0005	0.0041
8	0.0057	--	0.0044	0.0090	0.0028	0.0108	0.0033	0.0058	0.0013	0.0032	0.0033	--
9	0.0096	--	--	0.0007	0.0030	0.0100	0.0024	0.0052	0.0004	0.0036	0.0022	--
10	0.0057	0.0009	0.0005	0.0007	0.0035	0.0101	0.0010	0.0068	0.0000	--	0.0026	--
11	--	0.0029	0.0005	0.0026	0.0024	0.0067	0.0016	0.0051	0.0023	0.0015	0.0032	--
12	--	--	--	0.0058	0.0062	0.0079	0.0029	0.0035	0.0019	0.0013	0.0032	--
13	--	--	--	--	0.0049	0.0078	0.0072	0.0054	0.0024	0.0035	0.0024	--
14	--	--	0.0009	0.0048	0.0075	0.0105	0.0032	0.0051	0.0008	0.0041	0.0046	0.0104
15	--	--	0.0021	0.0068	0.0106	0.0071	0.0028	0.0024	0.0006	--	0.0045	0.0046
16	0.0079	--	0.0014	0.0024	0.0162	0.0091	0.0031	0.0012	0.0005	0.0055	0.0031	0.0076
17	0.0061	--	0.0018	0.0027	--	0.0067	0.0078	0.0010	0.0015	0.0046	0.0036	0.0074
18	0.0091	0.0016	0.0035	0.0037	0.0109	0.0089	0.0056	0.0050	0.0026	--	0.0024	--
19	0.0075	0.0011	--	--	0.0117	0.0114	0.0056	0.0025	0.0003	--	0.0052	0.0006
20	0.0071	0.0026	0.0079	--	--	0.0097	0.0022	0.0038	0.0031	0.0071	0.0045	--
21	0.0048	0.0021	0.0054	0.0035	0.0114	0.0090	0.0017	0.0019	0.0023	0.0055	0.0012	0.0040
22	0.0057	0.0015	0.0032	0.0106	0.0140	0.0072	0.0052	0.0029	0.0016	0.0034	0.0003	0.0010
23	0.0063	0.0029	0.0033	0.0076	0.0107	0.0064	0.0055	0.0077	0.0033	0.0055	--	0.0006
24	0.0024	0.0030	0.0040	--	0.0097	--	0.0028	0.0076	0.0021	0.0050	--	0.0009
25	--	0.0094	0.0021	--	0.0101	--	0.0029	0.0129	0.0010	0.0024	--	0.0017
26	--	0.0074	0.0064	--	0.0098	0.0046	0.0053	0.0096	0.0016	0.0025	0.0008	0.0023
27	0.0047	0.0076	0.0054	0.0068	0.0076	0.0050	0.0069	0.0066	--	0.0027	0.0016	0.0049
28	0.0071	0.0076	0.0049	0.0051	--	0.0061	0.0071	0.0092	0.0021	0.0029	0.0016	--
29	--	0.0103	0.0064	0.0046	0.0043	0.0063	0.0072	0.0111	--	0.0021	--	--
30	--	--	0.0063	0.0007	0.0016	0.0105	0.0066	0.0076	0.0051	0.0013	0.0109	--
31	--	--	0.0069	--	0.0004	--	0.0030	0.0045	--	0.0018	--	0.0024

NOTE: -- indicates data not available.

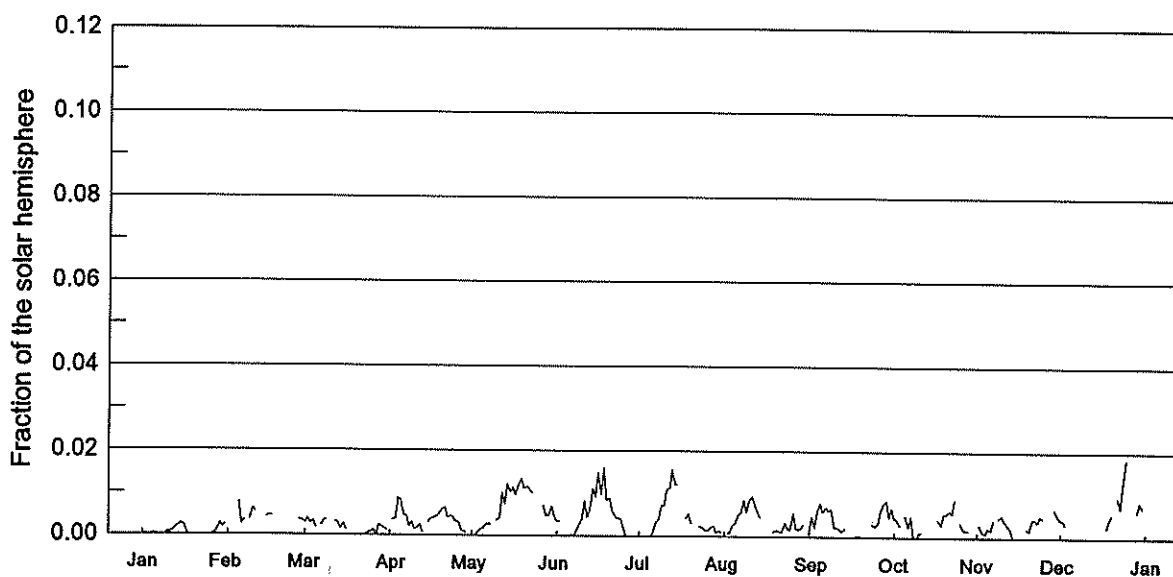
Mt Wilson Daily Calcium Plage
1933

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0035	0.0141	0.0148	0.0099	—	0.0023	0.0016	0.0000	0.0009	0.0019	0.0006	0.0000
2	0.0047	0.0179	0.0101	0.0064	0.0024	0.0034	0.0009	0.0000	0.0012	0.0000	0.0003	—
3	0.0094	0.0174	0.0118	0.0040	0.0061	—	0.0018	0.0043	0.0023	0.0000	0.0000	0.0000
4	0.0108	0.0134	0.0108	0.0037	—	—	0.0025	0.0057	0.0023	0.0009	0.0000	0.0000
5	0.0124	0.0164	0.0145	0.0034	0.0005	0.0042	0.0014	0.0050	0.0038	0.0000	0.0000	0.0000
6	0.0122	0.0157	—	—	0.0000	—	0.0037	0.0026	0.0028	0.0000	0.0000	0.0000
7	0.0128	—	—	—	—	0.0077	0.0047	0.0018	0.0033	0.0000	0.0000	—
8	0.0078	0.0120	—	0.0002	—	0.0076	0.0042	0.0023	0.0028	0.0000	0.0013	—
9	0.0124	0.0087	0.0071	0.0005	—	0.0053	0.0037	0.0047	0.0019	0.0006	0.0000	0.0000
10	—	0.0077	—	0.0008	—	0.0035	0.0030	0.0000	0.0019	0.0000	0.0000	0.0005
11	0.0098	0.0060	—	0.0002	0.0021	0.0052	0.0030	0.0008	0.0016	0.0000	0.0000	—
12	0.0099	0.0035	0.0000	0.0000	0.0003	0.0035	0.0035	0.0005	0.0000	0.0000	0.0000	—
13	0.0080	0.0005	0.0007	0.0003	0.0030	0.0018	0.0032	0.0004	0.0000	0.0000	0.0000	—
14	—	0.0006	—	0.0000	0.0031	0.0042	0.0058	0.0000	0.0000	0.0000	0.0003	0.0025
15	—	0.0004	—	0.0007	0.0023	0.0031	0.0033	0.0000	0.0000	0.0000	0.0000	0.0010
16	—	0.0006	0.0009	—	0.0022	0.0038	0.0017	0.0000	0.0000	0.0000	0.0019	0.0029
17	—	0.0013	—	—	0.0037	0.0035	0.0012	0.0000	0.0017	0.0005	0.0021	—
18	—	0.0030	0.0008	—	0.0038	0.0056	0.0036	0.0000	0.0005	0.0000	0.0042	0.0023
19	—	0.0029	0.0023	0.0058	0.0035	0.0050	0.0027	0.0000	0.0000	0.0000	0.0039	—
20	—	0.0014	0.0025	0.0073	0.0059	0.0027	0.0025	0.0000	0.0013	0.0000	0.0020	—
21	—	0.0026	—	0.0063	0.0050	0.0014	0.0006	0.0000	0.0016	0.0000	0.0035	0.0000
22	—	0.0043	—	0.0034	0.0066	0.0004	0.0005	0.0015	0.0031	0.0003	0.0019	0.0000
23	—	0.0038	0.0049	0.0061	0.0034	0.0027	0.0007	0.0012	0.0036	0.0000	0.0030	0.0000
24	—	0.0063	0.0050	—	0.0042	0.0000	0.0011	0.0000	0.0029	—	0.0024	0.0000
25	—	0.0064	0.0039	—	0.0059	0.0000	0.0019	0.0012	0.0018	0.0011	—	0.0000
26	—	0.0053	0.0067	0.0023	0.0056	0.0000	—	0.0000	0.0009	0.0022	0.0010	—
27	—	—	—	—	0.0056	0.0000	—	0.0000	0.0020	0.0032	—	0.0000
28	—	0.0062	0.0105	—	0.0032	0.0000	0.0015	0.0000	0.0023	0.0034	0.0000	0.0000
29	—	—	0.0068	—	0.0009	0.0000	0.0009	0.0000	0.0007	0.0042	0.0000	—
30	—	—	—	0.0021	0.0000	0.0015	0.0001	0.0000	0.0020	0.0042	0.0000	—
31	—	—	0.0114	—	0.0000	—	0.0000	0.0008	—	0.0027	—	—

NOTE: — indicates data not available.

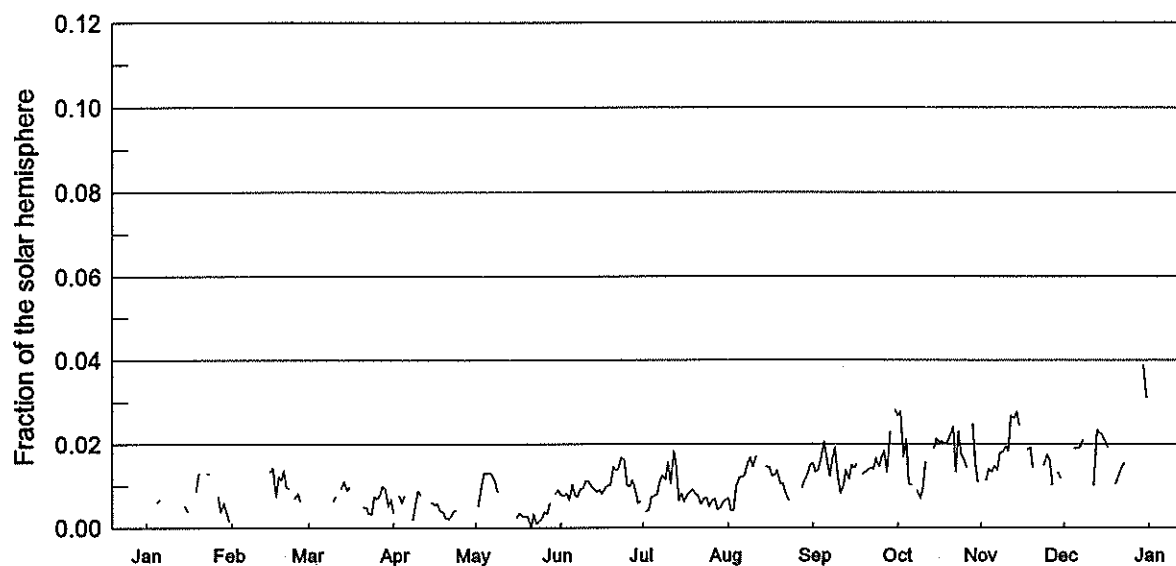
Mt Wilson Daily Calcium Plage 1934

47
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0002	—	0.0028	—	0.0000	0.0034	0.0000	—	0.0013	0.0068	—	0.0042
2	0.0000	—	0.0039	0.0036	0.0000	0.0035	0.0000	0.0007	0.0046	0.0044	0.0028	0.0040
3	0.0000	—	0.0028	0.0039	0.0008	—	0.0000	0.0008	0.0022	0.0042	0.0014	0.0030
4	0.0000	—	0.0033	0.0088	0.0015	—	0.0000	0.0025	0.0064	0.0025	0.0008	—
5	0.0002	0.0079	0.0016	0.0084	0.0016	—	0.0000	0.0032	0.0078	—	0.0021	0.0008
6	0.0000	0.0025	—	0.0047	0.0027	0.0003	0.0011	0.0050	0.0058	0.0050	0.0018	—
7	0.0000	0.0036	0.0023	0.0046	0.0027	0.0000	0.0031	0.0055	0.0070	0.0024	0.0041	—
8	0.0000	—	0.0033	0.0021	0.0027	0.0010	0.0037	0.0085	0.0062	0.0049	—	—
9	0.0000	0.0038	0.0037	0.0031	—	0.0028	0.0072	0.0057	0.0066	0.0000	0.0045	—
10	0.0006	0.0064	—	0.0015	0.0036	0.0039	0.0072	0.0084	0.0021	0.0000	0.0052	—
11	0.0006	0.0055	—	0.0018	0.0041	0.0082	0.0111	0.0094	0.0023	0.0010	0.0039	—
12	0.0010	—	0.0032	0.0024	0.0101	0.0043	0.0113	0.0076	0.0017	0.0010	0.0030	—
13	0.0016	0.0057	0.0029	0.0006	0.0074	0.0060	0.0156	0.0060	0.0013	—	0.0020	—
14	0.0022	—	0.0015	—	0.0121	0.0110	0.0122	0.0043	0.0021	0.0026	0.0000	—
15	0.0026	0.0042	0.0027	0.0032	0.0103	0.0092	0.0120	—	—	—	—	0.0000
16	0.0023	0.0047	0.0012	0.0039	0.0114	0.0148	—	0.0043	—	—	—	0.0000
17	0.0005	0.0045	—	0.0040	0.0097	0.0097	—	—	—	—	—	—
18	0.0000	—	0.0000	0.0045	0.0123	0.0161	0.0042	—	0.0002	0.0041	—	0.0024
19	—	—	0.0000	0.0052	0.0134	0.0085	0.0053	0.0012	0.0003	0.0029	0.0020	0.0044
20	0.0000	—	—	0.0060	0.0112	0.0088	0.0029	0.0015	0.0000	0.0054	0.0016	0.0055
21	0.0000	—	0.0000	0.0066	0.0117	0.0058	—	0.0012	—	0.0054	0.0042	—
22	0.0000	—	—	0.0042	0.0109	0.0048	—	0.0010	—	0.0062	0.0043	0.0094
23	0.0000	—	0.0000	0.0045	0.0100	0.0041	0.0022	0.0032	—	0.0056	0.0036	0.0071
24	—	—	0.0005	0.0043	—	0.0041	0.0020	0.0018	0.0029	0.0089	0.0052	0.0127
25	0.0000	—	0.0007	0.0033	—	0.0019	0.0013	0.0017	0.0026	—	0.0043	0.0187
26	0.0000	—	0.0011	0.0032	—	0.0000	0.0013	0.0055	0.0032	0.0033	—	—
27	0.0004	0.0036	0.0003	0.0013	0.0072	0.0000	0.0021	0.0020	0.0062	0.0018	0.0065	—
28	0.0010	0.0034	0.0024	0.0008	0.0047	0.0000	0.0024	0.0016	0.0077	0.0017	—	—
29	0.0027	—	0.0020	0.0007	0.0047	—	0.0009	0.0020	0.0085	0.0017	0.0067	0.0062
30	0.0018	—	0.0016	—	0.0070	—	0.0013	0.0028	0.0046	—	0.0053	0.0083
31	0.0026	—	0.0010	—	0.0047	—	0.0008	—	—	—	—	0.0071

NOTE: — indicates data not available.

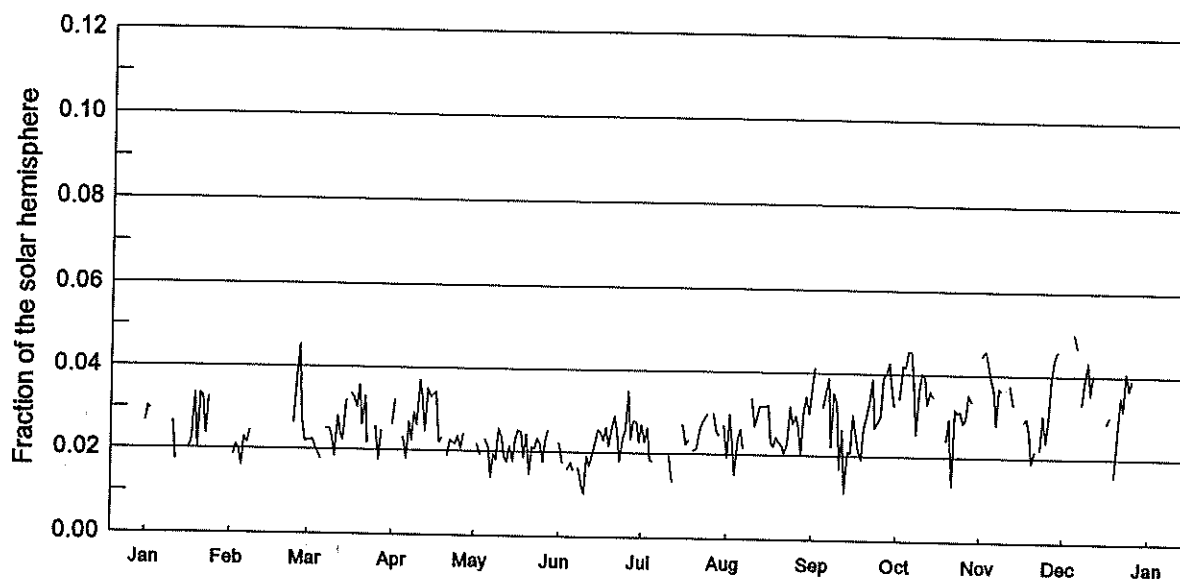
Mt Wilson Daily Calcium Plage
1935

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0073	—	—	0.0035	—	0.0078	—	0.0069	0.0155	0.0282	—	—
2	—	—	—	—	0.0052	0.0075	0.0038	0.0040	0.0134	0.0269	—	—
3	—	—	—	0.0076	0.0100	0.0081	0.0042	0.0040	0.0138	0.0279	0.0114	—
4	—	—	0.0062	0.0059	0.0130	0.0066	0.0073	0.0099	0.0171	0.0170	0.0141	—
5	0.0060	—	—	0.0075	0.0129	0.0103	0.0076	0.0119	0.0206	0.0212	0.0133	0.0189
6	0.0068	—	—	—	0.0131	0.0078	0.0080	0.0121	0.0170	0.0105	0.0147	0.0190
7	—	—	—	—	0.0124	0.0072	0.0111	0.0124	0.0123	0.0103	0.0138	0.0193
8	—	—	—	0.0018	0.0111	0.0091	0.0124	0.0156	0.0163	—	0.0178	0.0211
9	—	0.0093	—	0.0054	0.0085	0.0095	0.0115	0.0169	0.0193	0.0087	0.0181	—
10	—	—	0.0064	0.0087	—	0.0112	0.0158	0.0146	0.0116	0.0070	0.0194	—
11	—	—	0.0074	0.0076	0.0068	0.0110	0.0104	0.0171	0.0081	0.0095	0.0183	—
12	—	—	—	—	—	0.0102	0.0184	—	0.0099	0.0159	0.0268	0.0102
13	0.0040	—	0.0093	—	0.0084	0.0093	0.0155	0.0118	0.0137	—	0.0262	0.0235
14	—	—	0.0111	—	—	0.0085	0.0065	—	0.0117	—	0.0277	0.0228
15	0.0052	0.0134	0.0087	0.0059	—	0.0091	0.0082	0.0146	0.0150	0.0191	0.0244	0.0223
16	0.0036	0.0143	0.0099	0.0055	0.0024	0.0080	0.0062	0.0144	0.0143	0.0213	—	0.0206
17	—	0.0073	—	0.0057	0.0035	0.0095	0.0079	0.0124	0.0152	0.0205	—	0.0191
18	—	0.0122	—	0.0039	0.0025	0.0102	0.0085	0.0125	—	0.0206	0.0187	—
19	0.0087	0.0114	0.0091	0.0037	0.0025	0.0101	0.0091	0.0137	0.0128	0.0202	0.0193	—
20	0.0132	0.0136	—	0.0023	0.0025	0.0145	0.0082	0.0106	0.0132	0.0205	0.0143	0.0106
21	—	0.0095	0.0049	0.0020	0.0000	0.0136	0.0075	0.0106	0.0138	0.0222	—	0.0125
22	—	0.0093	0.0049	0.0029	0.0032	0.0143	0.0056	0.0084	0.0142	0.0241	0.0149	0.0142
23	0.0128	—	0.0033	0.0039	0.0009	0.0168	0.0068	0.0064	0.0140	0.0133	—	0.0155
24	0.0129	0.0070	0.0032	0.0041	0.0015	0.0162	0.0071	—	0.0166	0.0231	0.0150	—
25	—	0.0081	0.0074	—	0.0022	0.0101	0.0050	—	0.0145	0.0175	0.0175	0.0273
26	—	0.0062	0.0068	0.0045	0.0038	0.0099	0.0063	0.0094	0.0171	0.0162	0.0162	—
27	0.0074	—	0.0079	—	0.0031	0.0113	0.0068	—	0.0184	0.0142	0.0101	—
28	0.0037	—	0.0100	—	0.0059	0.0095	0.0042	0.0096	0.0133	—	—	—
29	0.0059	—	0.0094	—	—	0.0059	0.0046	0.0115	0.0230	0.0247	0.0132	—
30	0.0036	—	0.0052	0.0049	0.0081	0.0061	0.0058	0.0125	—	0.0156	0.0117	0.0389
31	0.0014	—	0.0067	—	0.0090	—	0.0066	0.0151	—	0.0107	—	0.0311

NOTE: — indicates data not available.

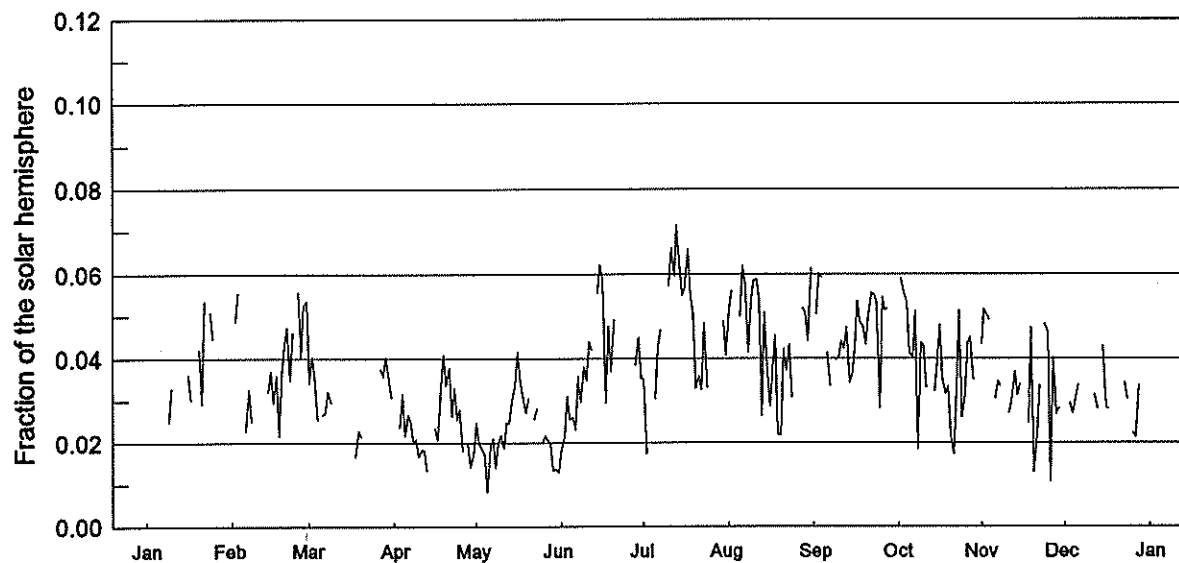
Mt Wilson Daily Calcium Plage 1936

49
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0267	--	0.0223	0.0325	0.0216	0.0174	0.0228	0.0297	0.0414	--	0.0447	0.0477
2	0.0302	0.0188	0.0225	--	0.0193	--	0.0262	0.0229	--	0.0342	0.0458	--
3	0.0294	0.0210	0.0200	--	--	0.0160	0.0185	0.0152	--	0.0421	0.0427	--
4	--	0.0197	0.0190	0.0232	0.0229	0.0176	0.0180	0.0240	0.0317	0.0416	0.0394	0.0502
5	0.0261	0.0161	0.0177	0.0181	0.0211	0.0158	--	0.0260	0.0349	0.0456	0.0364	0.0467
6	--	0.0229	--	0.0270	0.0139	--	0.0179	0.0215	0.0389	0.0456	0.0280	--
7	0.0257	0.0215	0.0252	0.0224	0.0194	0.0164	--	--	0.0223	0.0374	0.0369	0.0332
8	--	0.0245	0.0252	0.0293	0.0181	0.0123	0.0186	--	0.0352	0.0255	0.0361	0.0388
9	0.0237	--	0.0232	0.0262	0.0256	0.0101	--	0.0337	0.0328	0.0370	--	0.0433
10	--	--	0.0185	0.0370	0.0234	0.0192	0.0195	0.0270	0.0170	0.0403	--	0.0355
11	0.0266	--	0.0282	0.0326	0.0185	0.0168	0.0132	0.0296	0.0263	0.0395	0.0374	0.0405
12	0.0173	--	0.0241	0.0247	0.0175	0.0191	--	0.0318	0.0112	0.0328	0.0328	--
13	--	--	0.0225	0.0350	0.0214	0.0225	--	0.0318	0.0210	0.0360	--	--
14	--	--	0.0322	0.0331	0.0177	0.0255	--	0.0317	0.0207	0.0346	--	--
15	0.0223	--	--	0.0337	0.0231	0.0251	0.0271	0.0321	0.0300	--	--	--
16	--	--	0.0337	0.0343	0.0251	0.0230	0.0223	0.0231	0.0256	--	0.0289	0.0288
17	0.0203	--	0.0329	0.0221	0.0249	0.0262	0.0235	0.0221	0.0216	--	0.0297	0.0303
18	0.0222	--	0.0304	0.0233	0.0187	0.0216	--	0.0244	0.0193	--	0.0265	--
19	0.0336	--	0.0356	--	0.0242	0.0261	0.0209	0.0231	0.0271	0.0241	0.0190	0.0159
20	0.0204	--	0.0262	0.0189	0.0147	0.0290	0.0213	0.0225	0.0295	0.0293	0.0219	0.0264
21	0.0334	--	0.0330	0.0227	0.0212	0.0251	0.0255	0.0204	0.0337	0.0132	--	0.0351
22	0.0328	--	0.0216	0.0222	0.0208	0.0180	0.0274	0.0230	0.0387	0.0317	0.0221	0.0317
23	0.0237	--	--	0.0218	0.0233	0.0237	0.0291	0.0319	0.0270	0.0308	0.0304	0.0410
24	0.0326	0.0266	--	0.0236	0.0217	0.0257	0.0298	0.0277	0.0286	0.0311	0.0240	0.0369
25	--	0.0382	0.0257	0.0208	0.0176	0.0351	--	0.0295	0.0298	0.0283	0.0295	0.0391
26	--	0.0453	0.0177	0.0243	0.0232	0.0234	0.0298	0.0272	0.0394	0.0294	0.0398	--
27	--	0.0274	0.0249	--	0.0255	0.0279	0.0259	0.0200	0.0399	0.0352	0.0448	--
28	--	0.0220	--	--	--	0.0276	0.0246	0.0306	0.0426	0.0336	0.0459	--
29	--	0.0223	--	0.0223	--	0.0228	--	0.0343	0.0362	--	--	--
30	--	--	--	--	--	0.0270	0.0272	0.0302	0.0322	--	--	--
31	--	--	0.0264	--	0.0223	--	0.0192	0.0363	--	--	--	--

NOTE: -- indicates data not available.

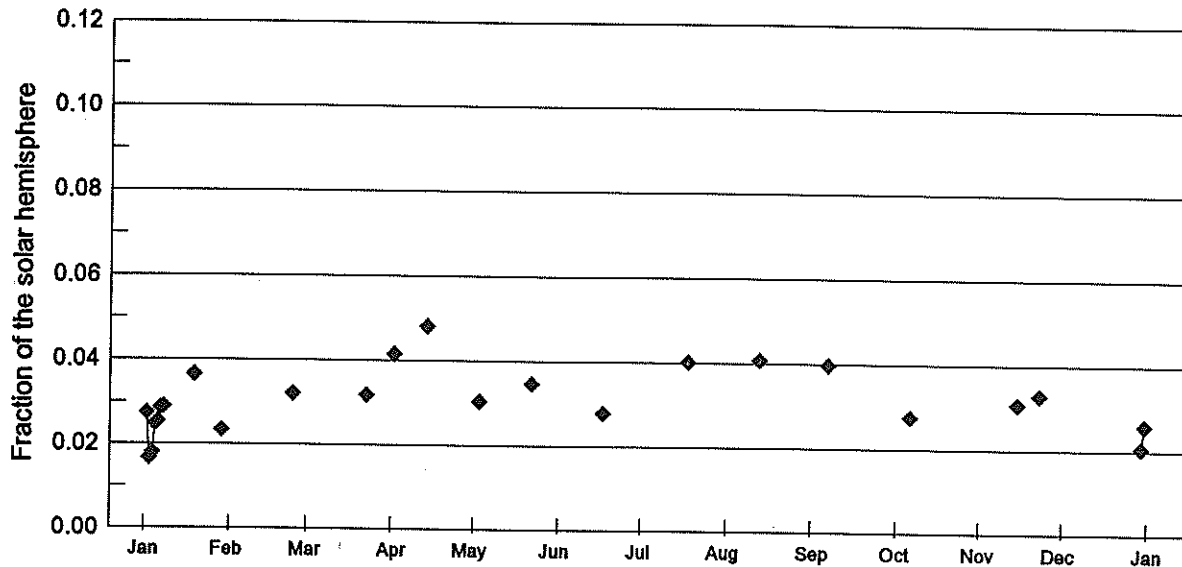
Mt Wilson Daily Calcium Plage
1937

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	—	—	0.0343	—	0.0249	0.0183	0.0351	0.0517	—	—	0.0435	—
2	—	0.0487	0.0405	—	0.0199	0.0214	0.0173	0.0561	0.0506	—	0.0518	—
3	0.0551	0.0557	0.0361	0.0238	0.0185	0.0311	—	—	0.0601	0.0589	0.0504	0.0296
4	—	—	0.0253	0.0317	0.0173	0.0257	—	—	0.0591	0.0552	0.0492	0.0270
5	—	—	—	0.0216	0.0082	0.0260	0.0305	0.0501	—	0.0534	—	0.0300
6	—	0.0229	0.0267	0.0267	0.0191	0.0232	0.0425	0.0620	0.0414	0.0412	0.0306	0.0340
7	—	0.0326	0.0272	0.0248	0.0209	0.0358	0.0468	0.0577	0.0336	0.0403	0.0347	—
8	—	0.0250	0.0322	0.0199	0.0141	0.0297	—	0.0415	—	0.0513	0.0336	—
9	0.0250	—	0.0295	0.0209	0.0199	0.0380	—	0.0529	0.0398	0.0185	—	—
10	0.0331	—	—	0.0168	0.0219	0.0349	0.0574	0.0584	0.0404	0.0438	—	—
11	—	—	—	0.0184	0.0188	0.0440	0.0660	0.0587	0.0442	0.0430	0.0271	—
12	—	—	—	0.0184	0.0248	0.0418	0.0595	0.0541	0.0423	0.0331	0.0304	0.0316
13	—	—	—	0.0132	0.0247	—	0.0715	0.0264	0.0474	—	0.0371	0.0280
14	0.0290	0.0321	—	—	0.0299	0.0555	0.0616	0.0510	0.0344	—	0.0314	—
15	—	0.0371	—	—	0.0337	0.0623	0.0551	0.0382	0.0363	0.0323	0.0341	0.0429
16	0.0361	0.0296	—	0.0235	0.0415	0.0585	0.0566	0.0286	0.0427	0.0388	—	0.0285
17	0.0301	0.0360	—	0.0206	0.0351	0.0296	0.0659	0.0377	0.0535	0.0480	—	0.0281
18	—	0.0216	0.0167	0.0334	0.0303	0.0477	0.0546	0.0455	0.0486	0.0354	0.0249	—
19	—	0.0364	0.0229	0.0410	0.0272	0.0370	0.0507	0.0220	0.0477	0.0317	0.0473	—
20	0.0420	0.0431	0.0214	0.0337	0.0308	0.0493	0.0331	0.0219	0.0433	0.0334	0.0128	—
21	0.0294	0.0474	—	0.0379	—	—	0.0358	0.0423	0.0500	0.0219	0.0217	0.0463
22	0.0537	0.0349	0.0351	0.0264	0.0257	0.0495	0.0326	0.0372	0.0556	0.0173	0.0339	—
23	—	0.0463	—	0.0331	0.0282	—	0.0483	0.0432	0.0551	0.0328	—	0.0344
24	0.0510	—	—	0.0256	—	—	0.0330	0.0307	0.0534	0.0515	0.0483	0.0303
25	0.0446	0.0558	—	0.0280	0.0200	—	—	—	0.0283	0.0261	0.0463	—
26	—	0.0404	—	0.0181	0.0217	0.0477	—	0.0403	0.0545	0.0312	0.0106	0.0225
27	—	0.0527	0.0375	—	0.0206	—	—	—	0.0515	0.0439	0.0404	0.0213
28	—	0.0535	0.0359	0.0196	0.0198	0.0385	—	0.0519	0.0520	0.0451	0.0270	0.0339
29	—	—	0.0403	0.0142	0.0133	0.0451	—	0.0509	—	0.0350	0.0284	—
30	—	—	0.0348	0.0174	0.0136	0.0354	0.0488	0.0441	0.0422	—	—	—
31	0.0622	—	0.0306	—	0.0129	—	0.0408	0.0614	—	—	—	0.0201

NOTE: — indicates data not available.

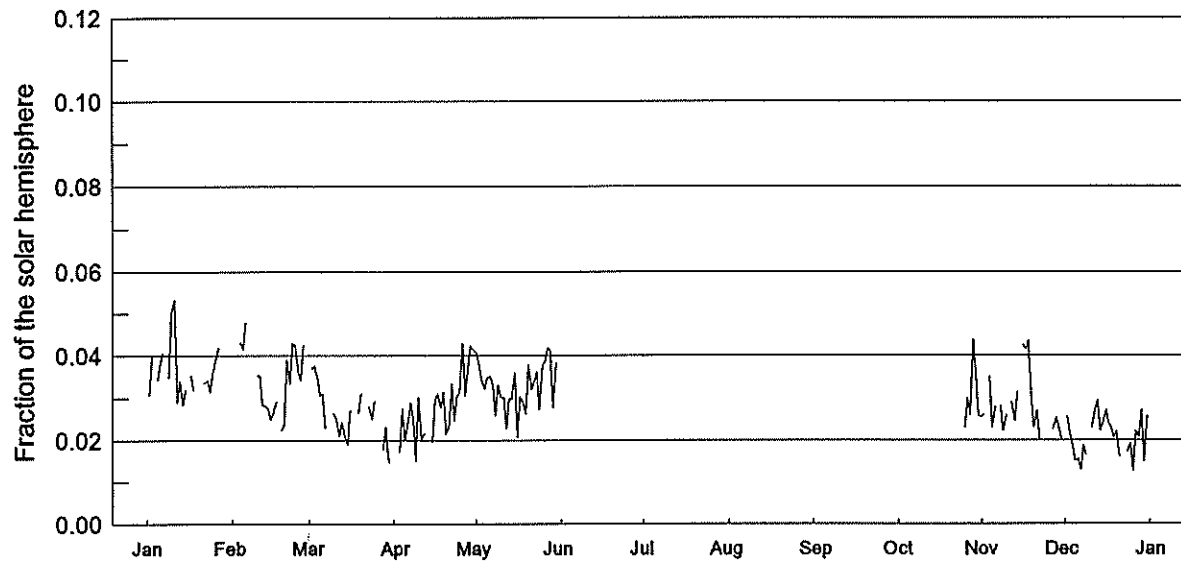
Mt Wilson Daily Calcium Plage 1938

51
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	--	--	--	--	--	--	--	--	--	--	--
2	0.0274	--	--	0.0416	--	--	--	--	--	--	--	--
3	0.0166	--	--	--	0.0305	--	--	--	--	--	--	--
4	0.0180	--	--	--	--	--	--	--	--	--	--	--
5	0.0248	--	--	--	--	--	--	--	--	--	--	--
6	0.0255	--	--	--	--	--	--	--	--	--	--	--
7	0.0287	--	--	--	--	--	--	--	0.0398	0.0276	--	--
8	0.0289	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	--	--	--	--	0.0408	--	--	--	--
14	--	--	--	0.0481	--	--	--	--	--	--	--	--
15	--	--	--	--	--	--	--	--	--	--	0.0308	--
16	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	0.0279	--	--	--	--	--	--
18	--	--	--	--	--	--	0.0402	--	--	--	--	--
19	0.0366	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	--	--
22	--	--	--	--	0.0347	--	--	--	--	--	--	--
23	--	--	0.0318	--	--	--	--	--	--	--	0.0329	--
24	--	0.0322	--	--	--	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--
29	0.0235	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	0.0206
31	--	--	--	--	--	--	--	--	--	--	--	0.0259

NOTE: -- Indicates data not available.

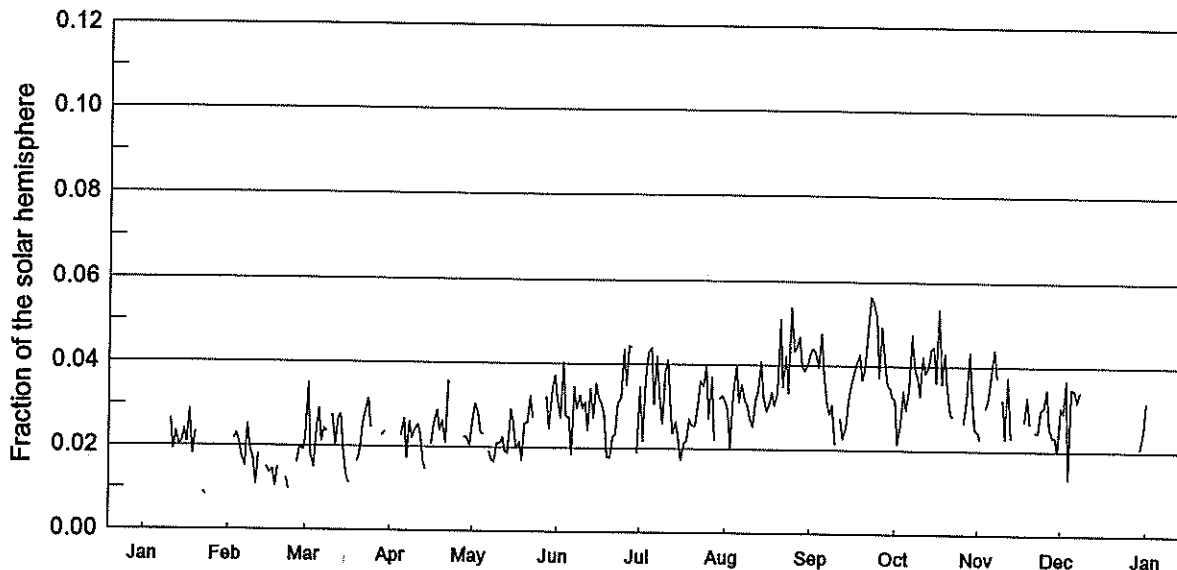
Mt Wilson Daily Calcium Plage
1939

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	—	0.0432	—	—	0.0408	—	—	—	—	—	0.0256	—
2	0.0308	—	0.0371	—	0.0383	—	—	—	—	—	0.0262	0.0257
3	0.0402	—	0.0376	0.0173	0.0339	—	—	—	—	—	—	0.0214
4	—	0.0430	0.0348	0.0275	0.0323	—	—	—	—	—	0.0350	0.0188
5	0.0344	0.0415	0.0306	0.0200	0.0348	—	—	—	—	—	0.0230	0.0152
6	0.0385	0.0481	0.0310	0.0245	0.0351	—	—	—	—	—	0.0280	0.0155
7	0.0408	—	0.0227	0.0288	0.0330	—	—	—	—	—	—	0.0128
8	—	—	—	0.0249	0.0259	—	—	—	—	—	0.0281	0.0188
9	0.0348	—	—	0.0150	0.0331	—	—	—	—	—	0.0221	0.0164
10	0.0503	0.0353	0.0264	0.0302	0.0303	—	—	—	—	—	0.0260	—
11	0.0533	0.0354	0.0253	0.0200	0.0302	—	—	—	—	—	—	0.0231
12	0.0290	0.0283	0.0211	0.0217	0.0228	—	—	—	—	—	0.0290	0.0267
13	0.0340	0.0280	0.0243	—	0.0299	—	—	—	—	—	0.0246	0.0292
14	0.0284	0.0275	0.0212	—	0.0297	—	—	—	—	—	0.0316	0.0223
15	0.0322	0.0250	0.0191	0.0196	0.0359	—	—	—	—	—	—	0.0241
16	—	0.0266	0.0272	0.0297	0.0208	—	—	—	—	—	0.0425	0.0271
17	0.0354	0.0293	—	0.0309	0.0303	—	—	—	—	—	0.0416	0.0240
18	0.0318	—	—	0.0277	0.0289	—	—	—	—	—	0.0435	0.0229
19	—	0.0224	0.0265	0.0314	0.0262	—	—	—	—	—	0.0312	0.0208
20	—	0.0235	0.0312	0.0215	0.0378	—	—	—	—	—	0.0230	0.0220
21	—	0.0390	—	0.0234	0.0322	—	—	—	—	—	0.0270	0.0161
22	0.0335	0.0333	—	0.0334	0.0340	—	—	—	—	—	0.0203	—
23	0.0341	0.0429	0.0279	0.0247	0.0361	—	—	—	—	—	—	—
24	0.0314	0.0425	0.0252	0.0305	0.0273	—	—	—	—	—	0.0306	0.0172
25	0.0360	0.0361	0.0294	0.0313	0.0377	—	—	—	—	—	—	0.0192
26	0.0394	0.0343	—	0.0429	0.0385	—	—	—	—	0.0231	—	0.0126
27	0.0421	0.0426	—	0.0306	0.0419	—	—	—	—	0.0301	0.0227	0.0222
28	—	—	0.0178	0.0366	0.0412	—	—	—	—	0.0261	0.0254	0.0207
29	—	—	0.0231	0.0424	0.0277	—	—	—	—	0.0439	0.0229	0.0272
30	—	—	0.0145	0.0414	0.0384	—	—	—	—	0.0357	0.0201	0.0150
31	—	—	—	—	—	—	—	—	—	0.0258	—	0.0259

NOTE: — indicates data not available.

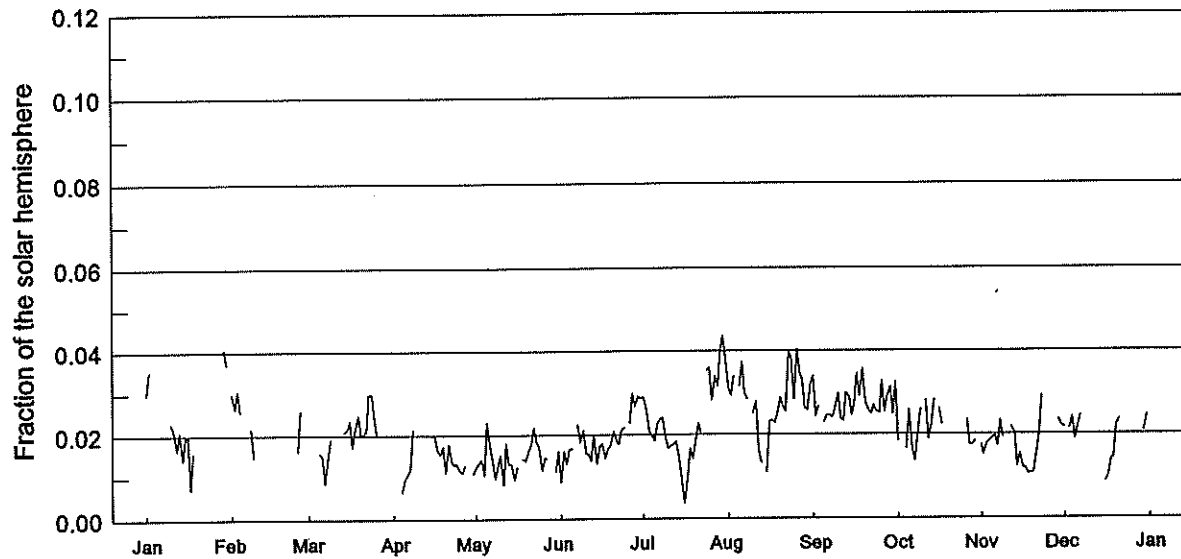
Mt Wilson Daily Calcium Plage 1940

53
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	—	—	0.0351	0.0237	0.0303	0.0272	0.0219	0.0288	0.0442	0.0322	0.0227	0.0291
2	—	—	0.0180	—	0.0281	0.0405	0.0368	0.0201	0.0432	0.0215	—	0.0369
3	—	0.0218	0.0149	—	0.0233	0.0276	0.0429	0.0331	0.0396	0.0264	0.0303	0.0134
4	0.0160	0.0229	0.0236	0.0228	0.0232	0.0275	0.0440	0.0399	0.0476	0.0342	0.0325	0.0349
5	—	0.0209	0.0290	0.0268	—	0.0183	0.0306	0.0312	0.0384	0.0296	0.0391	0.0344
6	—	0.0174	0.0211	0.0173	0.0190	0.0346	0.0421	0.0355	0.0312	0.0349	0.0442	0.0319
7	—	0.0153	0.0242	0.0260	0.0169	0.0292	0.0332	0.0318	0.0285	0.0477	0.0375	0.0343
8	—	0.0252	0.0233	0.0222	0.0165	0.0326	0.0259	0.0305	0.0307	0.0399	—	—
9	—	0.0194	—	0.0240	0.0209	0.0294	0.0381	0.0274	0.0214	0.0375	0.0322	—
10	—	0.0168	0.0275	0.0254	0.0209	0.0309	0.0413	0.0255	—	0.0331	0.0229	0.0399
11	0.0263	0.0108	0.0201	0.0230	0.0225	0.0242	0.0289	0.0318	0.0275	0.0425	0.0376	—
12	0.0191	0.0182	0.0268	0.0167	0.0190	0.0342	0.0236	0.0342	0.0227	0.0384	0.0230	—
13	0.0233	—	0.0278	0.0145	0.0187	0.0273	0.0264	0.0410	0.0253	0.0397	—	—
14	0.0201	—	0.0176	—	0.0291	0.0354	0.0223	0.0326	0.0321	0.0443	0.0227	—
15	0.0209	0.0148	0.0128	0.0207	0.0259	0.0322	0.0171	0.0291	0.0356	0.0448	—	—
16	0.0239	0.0137	0.0110	0.0258	0.0198	0.0304	0.0214	0.0307	0.0384	0.0362	—	—
17	0.0208	0.0144	—	0.0287	0.0214	0.0276	0.0218	0.0337	0.0407	0.0536	0.0272	—
18	0.0286	0.0105	—	0.0240	0.0168	0.0179	0.0271	0.0305	0.0428	0.0360	0.0329	—
19	0.0180	0.0150	0.0165	0.0263	0.0258	0.0177	0.0255	0.0336	0.0367	0.0432	0.0266	0.0143
20	0.0233	—	0.0188	0.0210	0.0260	0.0228	0.0255	0.0510	0.0395	0.0351	—	—
21	—	—	0.0263	0.0359	0.0323	0.0233	0.0301	0.0349	0.0495	0.0287	0.0246	—
22	—	0.0122	0.0280	—	0.0271	0.0309	0.0361	0.0424	0.0565	0.0280	0.0244	—
23	0.0089	0.0095	0.0315	—	—	0.0319	0.0349	0.0335	0.0551	—	0.0298	—
24	0.0081	—	0.0244	—	—	0.0435	0.0400	0.0538	0.0518	—	0.0305	—
25	—	—	—	—	—	0.0350	0.0273	0.0433	0.0375	—	0.0347	0.0176
26	—	0.0160	—	—	—	0.0445	0.0370	0.0446	0.0495	0.0268	0.0259	—
27	0.0107	0.0200	—	0.0225	0.0322	0.0440	0.0222	0.0467	0.0426	0.0317	0.0234	—
28	—	0.0190	0.0227	0.0224	0.0246	—	—	0.0398	0.0357	0.0436	0.0234	—
29	—	0.0220	0.0236	0.0204	0.0338	0.0190	0.0320	0.0388	0.0349	0.0326	0.0198	0.0207
30	—	—	—	0.0262	0.0373	0.0345	0.0327	0.0400	0.0326	0.0251	0.0303	0.0245
31	—	—	—	—	0.0318	—	0.0314	0.0431	—	0.0244	—	0.0318

NOTE: — indicates data not available.

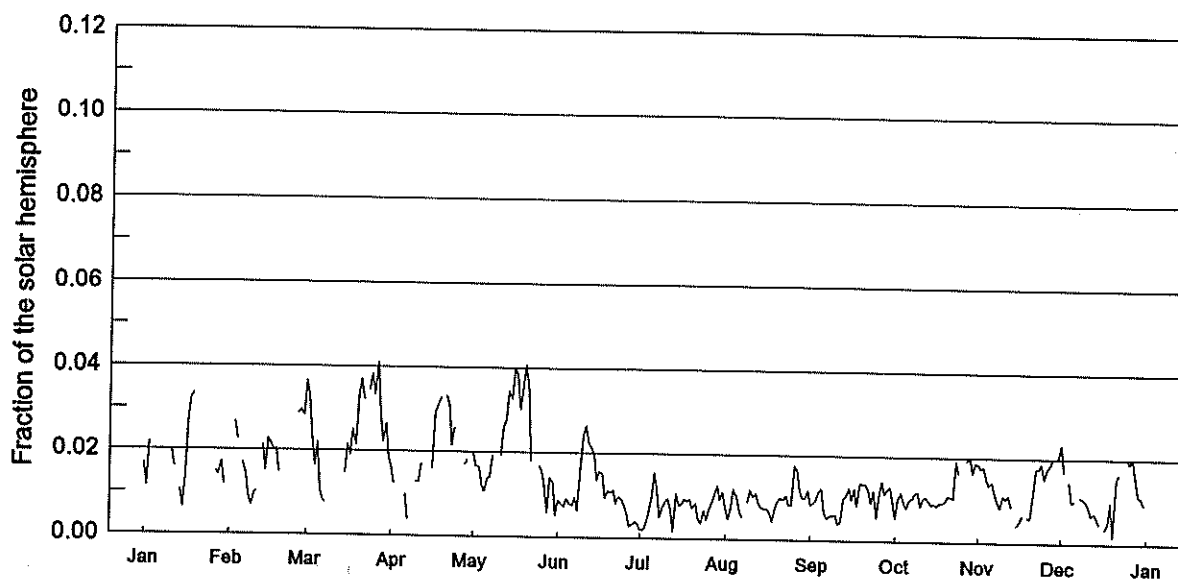
Mt Wilson Daily Calcium Plage
1941

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0299	0.0298	--	--	0.0122	0.0087	0.0289	0.0309	0.0338	0.0325	0.0174	0.0217
2	0.0355	0.0263	--	--	0.0132	0.0160	0.0260	0.0294	0.0244	0.0183	0.0152	--
3	--	0.0307	--	--	0.0143	0.0131	0.0210	0.0340	0.0267	--	0.0177	0.0213
4	--	0.0255	--	0.0065	0.0104	0.0165	0.0199	--	--	--	0.0183	0.0241
5	--	--	0.0158	0.0094	0.0230	0.0167	0.0187	0.0316	0.0231	0.0165	0.0190	0.0188
6	--	0.0301	0.0150	0.0109	0.0172	--	0.0228	0.0373	0.0246	0.0258	0.0196	0.0221
7	--	--	0.0086	0.0121	0.0140	0.0225	0.0236	0.0297	0.0245	0.0162	0.0173	0.0245
8	--	0.0215	0.0136	0.0213	0.0096	0.0184	0.0241	0.0283	0.0241	0.0137	0.0234	--
9	--	0.0147	0.0192	--	0.0126	0.0210	0.0193	--	0.0262	0.0195	0.0191	--
10	0.0227	--	--	--	0.0153	0.0156	0.0167	0.0252	0.0297	0.0261	--	--
11	0.0205	--	--	--	0.0081	0.0155	0.0173	0.0277	0.0237	--	--	--
12	0.0165	0.0193	--	--	0.0180	0.0139	0.0178	0.0160	0.0232	0.0281	0.0217	--
13	0.0207	--	--	--	0.0130	0.0198	0.0184	0.0131	0.0298	0.0188	0.0205	--
14	0.0143	--	0.0207	--	0.0132	0.0132	0.0143	--	0.0289	0.0226	0.0123	0.0131
15	0.0196	--	0.0215	0.0199	0.0094	0.0172	0.0089	0.0109	0.0245	0.0284	0.0155	--
16	0.0200	--	0.0234	0.0202	0.0124	0.0179	0.0038	0.0230	0.0273	--	0.0120	0.0087
17	0.0073	0.0172	0.0171	0.0164	--	0.0145	0.0098	0.0233	0.0344	0.0261	0.0118	0.0103
18	0.0159	--	0.0213	0.0155	0.0142	0.0165	0.0165	0.0228	0.0291	0.0221	0.0105	0.0139
19	--	--	0.0247	0.0172	0.0139	0.0174	0.0144	0.0248	0.0356	--	0.0107	0.0144
20	--	--	0.0201	0.0110	0.0158	0.0208	0.0181	0.0287	0.0277	--	0.0108	0.0218
21	0.0127	--	0.0201	0.0179	0.0179	0.0189	0.0227	0.0265	0.0260	--	0.0158	0.0236
22	--	--	0.0214	0.0140	0.0219	0.0177	0.0201	0.0255	0.0248	--	0.0202	--
23	--	--	0.0297	0.0130	0.0185	0.0211	--	0.0397	0.0269	0.0178	0.0292	0.0217
24	--	--	0.0299	0.0132	0.0171	0.0219	0.0353	0.0379	0.0256	--	--	--
25	--	0.0162	0.0243	0.0117	0.0117	--	0.0359	0.0283	0.0250	--	--	--
26	0.0255	0.0260	0.0197	0.0110	0.0145	0.0227	0.0282	0.0403	0.0327	--	--	0.0176
27	--	--	--	0.0129	0.0142	0.0299	0.0339	0.0345	0.0253	0.0233	0.0343	--
28	--	--	--	--	--	0.0268	0.0315	0.0330	0.0289	0.0174	--	--
29	0.0406	--	--	--	--	0.0291	0.0400	0.0262	0.0313	0.0176	0.0235	--
30	0.0369	--	--	0.0109	0.0113	0.0287	0.0437	0.0258	0.0248	0.0185	0.0220	0.0207
31	--	--	--	--	0.0161	--	0.0386	0.0320	--	--	--	0.0245

NOTE: -- indicates data not available.

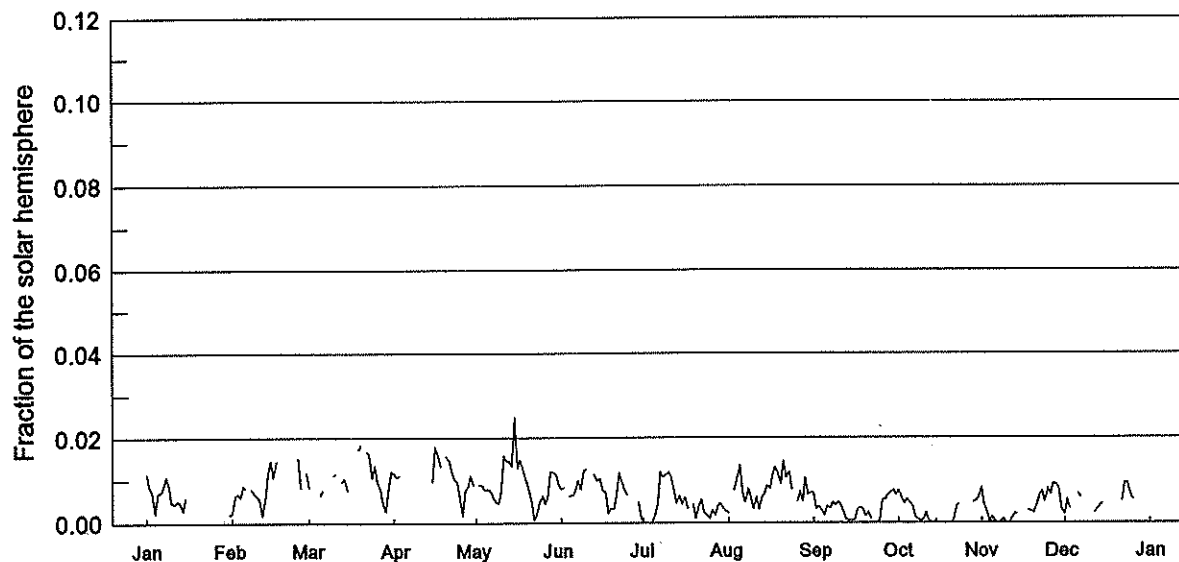
Mt Wilson Daily Calcium Plage 1942

55
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0166	0.0286	0.0365	0.0164	0.0197	0.0087	0.0020	0.0071	0.0084	0.0092	0.0183	0.0233
2	0.0114	--	0.0331	0.0122	0.0167	0.0078	0.0019	0.0049	0.0088	0.0056	0.0176	0.0168
3	0.0220	0.0267	0.0241	--	0.0165	0.0072	0.0034	0.0074	0.0094	0.0098	0.0178	--
4	--	0.0225	0.0165	--	0.0122	0.0090	0.0058	0.0118	0.0117	0.0115	0.0150	0.0144
5	0.0250	--	0.0220	--	0.0107	0.0079	0.0096	0.0101	0.0122	0.0092	0.0135	0.0096
6	--	0.0170	0.0106	0.0097	0.0138	0.0075	0.0154	0.0071	0.0068	0.0079	0.0142	0.0101
7	--	0.0143	0.0084	0.0038	0.0141	0.0094	0.0114	0.0053	0.0053	0.0098	0.0116	--
8	--	0.0087	0.0075	--	0.0193	0.0064	0.0052	--	0.0058	0.0102	0.0097	0.0109
9	--	0.0069	--	--	--	0.0167	0.0076	0.0087	0.0059	0.0114	0.0081	0.0106
10	--	0.0098	--	0.0128	--	0.0241	0.0087	0.0116	0.0060	0.0117	0.0110	0.0100
11	0.0198	0.0103	--	0.0129	0.0194	0.0266	0.0093	0.0101	0.0038	0.0083	0.0103	0.0086
12	0.0157	--	--	0.0172	0.0260	0.0227	0.0061	0.0109	0.0043	0.0102	0.0112	0.0067
13	--	0.0212	--	--	0.0276	0.0215	0.0017	0.0087	0.0096	0.0106	0.0085	0.0072
14	0.0105	0.0151	--	0.0205	0.0344	0.0195	0.0106	0.0076	0.0107	0.0096	--	0.0059
15	0.0064	0.0227	0.0149	--	0.0327	0.0136	0.0078	0.0073	0.0124	0.0086	0.0040	0.0047
16	0.0136	0.0218	0.0215	0.0161	0.0401	0.0156	0.0080	0.0072	0.0097	0.0089	0.0050	--
17	0.0268	0.0200	0.0191	0.0293	0.0386	0.0152	0.0093	0.0065	0.0123	0.0085	0.0066	0.0034
18	0.0324	0.0203	0.0252	0.0312	0.0302	0.0093	0.0088	0.0043	0.0083	0.0091	--	0.0048
19	0.0335	0.0147	0.0215	0.0329	0.0357	0.0111	0.0092	0.0070	0.0136	0.0090	0.0060	0.0097
20	--	--	0.0329	--	0.0408	0.0108	0.0072	0.0092	0.0134	0.0095	0.0058	0.0016
21	--	--	0.0370	0.0332	0.0349	0.0112	0.0084	0.0099	0.0133	0.0108	0.0119	0.0153
22	--	--	0.0322	0.0312	0.0178	0.0082	0.0048	0.0094	0.0123	0.0108	0.0176	0.0163
23	0.0238	--	--	0.0215	--	0.0096	0.0036	0.0104	0.0089	0.0103	0.0176	--
24	--	0.0238	0.0345	0.0258	--	0.0090	0.0067	0.0081	0.0118	0.0191	0.0186	--
25	--	--	0.0384	--	0.0169	0.0077	0.0045	0.0082	0.0056	0.0162	0.0152	0.0198
26	--	0.0289	0.0336	--	0.0154	0.0059	0.0070	0.0176	0.0111	--	0.0175	0.0189
27	0.0149	0.0297	0.0409	--	0.0117	0.0027	0.0087	0.0166	0.0141	--	0.0182	0.0201
28	0.0141	0.0285	0.0290	0.0171	0.0059	0.0032	0.0109	0.0120	0.0112	0.0194	0.0201	0.0153
29	0.0173	--	0.0223	0.0182	0.0139	0.0037	0.0126	0.0100	0.0123	0.0198	--	0.0112
30	0.0116	--	0.0266	--	0.0130	0.0033	0.0093	0.0099	0.0128	0.0164	0.0198	0.0111
31	--	--	0.0183	--	0.0051	--	0.0111	0.0116	--	0.0186	--	0.0090

NOTE: -- indicates data not available.

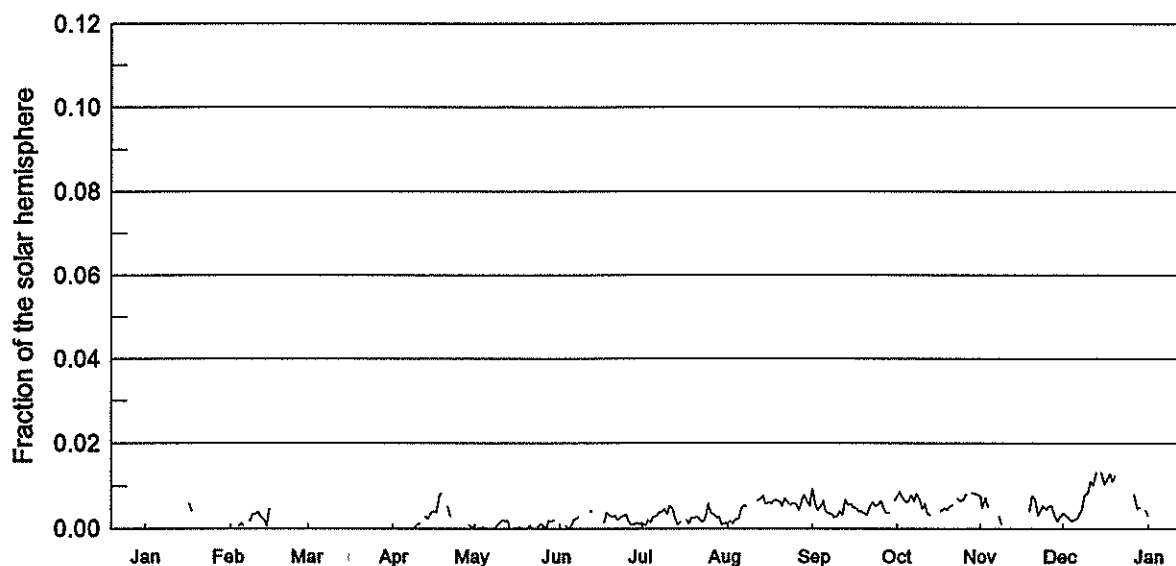
Mt Wilson Daily Calcium Plage
1943

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0115	0.0021	0.0080	0.0117	—	0.0079	0.0000	0.0021	0.0068	0.0065	0.0081	0.0020
2	0.0081	0.0063	—	0.0107	0.0089	0.0083	0.0000	—	0.0031	0.0076	0.0045	0.0054
3	0.0073	0.0068	—	0.0110	0.0088	—	0.0000	0.0077	0.0037	0.0062	0.0024	0.0031
4	0.0023	0.0060	—	—	0.0077	0.0064	0.0000	0.0101	0.0027	0.0045	0.0003	—
5	0.0070	0.0086	0.0065	—	0.0078	0.0065	0.0018	0.0135	0.0016	0.0056	0.0013	—
6	0.0071	0.0078	0.0077	0.0086	0.0076	0.0077	0.0044	0.0070	0.0038	0.0049	0.0003	0.0068
7	0.0082	—	—	—	0.0063	0.0100	0.0119	0.0049	0.0033	0.0039	0.0000	0.0059
8	0.0109	0.0078	—	—	0.0050	0.0079	0.0107	0.0078	0.0049	0.0013	0.0002	—
9	0.0087	0.0070	—	—	0.0045	0.0123	0.0114	0.0058	0.0040	0.0007	0.0009	—
10	0.0049	0.0064	0.0112	0.0080	0.0065	0.0125	0.0119	0.0032	0.0048	0.0004	0.0000	—
11	0.0045	0.0053	0.0117	—	0.0157	—	0.0106	0.0060	0.0038	0.0007	0.0000	—
12	0.0052	0.0017	—	0.0079	0.0146	—	0.0068	0.0030	0.0021	0.0024	0.0008	0.0022
13	0.0049	0.0062	0.0097	—	0.0145	0.0114	0.0047	0.0059	0.0005	0.0004	0.0021	0.0031
14	0.0028	0.0118	0.0104	—	0.0133	0.0098	0.0064	0.0068	0.0005	0.0001	0.0018	0.0039
15	0.0060	0.0146	0.0074	0.0097	0.0249	0.0105	0.0044	0.0086	0.0006	0.0000	—	0.0045
16	—	0.0108	—	0.0178	0.0128	0.0075	0.0060	0.0079	0.0006	0.0008	—	—
17	—	0.0146	—	0.0162	0.0149	0.0071	0.0032	0.0114	0.0030	—	—	—
18	—	—	—	0.0131	0.0123	0.0021	—	0.0130	0.0034	0.0016	0.0028	—
19	—	—	0.0173	—	0.0101	0.0033	0.0042	0.0118	0.0030	—	0.0026	—
20	—	—	0.0183	0.0156	0.0082	0.0031	0.0010	0.0090	0.0015	—	0.0022	—
21	—	—	—	0.0147	0.0051	0.0068	0.0039	0.0145	0.0024	0.0000	0.0043	—
22	—	—	0.0168	0.0119	0.0006	0.0118	0.0054	0.0106	0.0009	0.0007	0.0065	0.0051
23	—	—	0.0164	0.0102	0.0019	0.0097	0.0022	0.0119	—	0.0038	0.0074	0.0093
24	—	—	0.0106	0.0097	0.0047	0.0072	0.0016	0.0076	0.0000	0.0044	0.0050	0.0093
25	—	0.0151	0.0135	0.0064	0.0063	0.0065	0.0008	—	0.0005	—	0.0080	0.0067
26	—	0.0080	0.0097	0.0017	0.0045	—	0.0028	0.0051	0.0053	—	0.0066	0.0053
27	0.0043	—	0.0077	0.0077	0.0060	0.0057	0.0017	0.0073	0.0055	0.0050	0.0091	—
28	—	0.0118	0.0043	0.0084	0.0121	—	0.0042	0.0050	0.0065	—	0.0089	—
29	—	—	0.0027	0.0110	0.0120	0.0048	0.0044	0.0106	0.0071	0.0048	0.0080	—
30	—	—	0.0086	0.0087	0.0113	0.0012	0.0033	0.0066	0.0075	0.0052	0.0032	—
31	0.0019	—	0.0121	—	0.0088	—	0.0027	0.0071	—	0.0060	—	0.0022

NOTE: — indicates data not available.

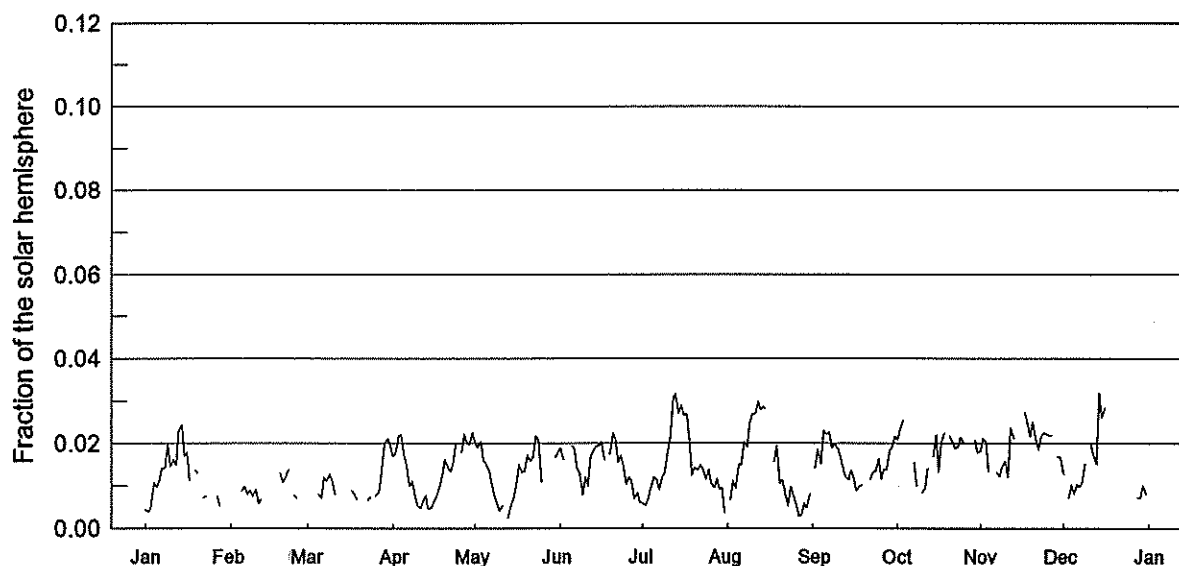
Mt Wilson Daily Calcium Plage 1944

57
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	-	0.0018	-	-	0.0000	-	0.0007	0.0018	0.0061	0.0076	0.0051	0.0032
2	-	-	-	-	0.0000	0.0007	0.0019	0.0011	0.0043	0.0086	0.0072	0.0025
3	-	-	-	-	0.0002	0.0000	0.0015	0.0021	0.0052	0.0071	0.0052	0.0018
4	-	0.0006	-	-	0.0000	0.0006	0.0028	0.0022	0.0065	0.0063	-	0.0020
5	-	0.0013	-	-	0.0000	0.0021	0.0029	0.0046	0.0040	0.0063	0.0039	0.0023
6	-	0.0004	-	0.0007	0.0000	0.0023	0.0038	0.0054	0.0034	0.0079	-	0.0034
7	-	-	-	-	0.0000	0.0029	0.0037	0.0053	0.0035	0.0065	0.0028	0.0046
8	-	0.0018	-	0.0003	0.0006	-	0.0046	-	0.0026	0.0081	0.0010	0.0079
9	-	0.0033	-	0.0009	0.0011	-	0.0034	-	0.0030	0.0068	-	0.0084
10	-	0.0035	-	0.0013	0.0019	-	0.0055	-	0.0041	0.0047	-	0.0110
11	-	0.0039	-	-	0.0017	0.0040	0.0045	0.0067	0.0031	0.0059	0.0009	0.0101
12	-	0.0027	-	0.0028	0.0020	0.0040	0.0024	0.0069	0.0068	0.0034	-	0.0131
13	-	0.0021	-	0.0023	0.0000	-	0.0009	0.0077	0.0056	0.0031	-	-
14	-	0.0006	-	0.0036	-	-	0.0017	0.0059	0.0059	-	0.0048	0.0130
15	-	0.0049	-	0.0040	0.0000	-	-	0.0062	0.0050	0.0046	-	0.0105
16	-	-	-	0.0037	0.0003	0.0015	0.0019	0.0058	0.0048	-	0.0059	0.0115
17	0.0058	-	-	0.0078	0.0003	0.0038	0.0012	0.0067	0.0040	0.0040	-	0.0128
18	0.0040	-	-	0.0082	-	0.0031	0.0026	0.0066	0.0040	0.0049	0.0040	0.0111
19	-	-	-	-	0.0000	0.0027	0.0024	0.0063	0.0035	0.0043	0.0077	0.0124
20	-	-	-	0.0053	0.0007	0.0030	0.0027	0.0055	0.0031	0.0052	0.0069	-
21	0.0011	-	-	0.0027	0.0000	0.0019	0.0021	0.0071	0.0055	0.0057	0.0032	-
22	-	-	-	-	-	0.0026	0.0015	0.0062	0.0061	-	0.0042	-
23	-	-	-	-	0.0004	0.0030	0.0027	0.0056	0.0055	0.0070	0.0054	-
24	-	-	-	0.0029	0.0011	0.0033	0.0060	0.0060	0.0057	0.0065	0.0045	0.0063
25	-	-	-	-	0.0005	0.0017	0.0036	0.0057	0.0065	0.0068	0.0053	-
26	-	-	-	-	0.0000	0.0008	0.0033	0.0043	0.0049	0.0081	0.0055	0.0080
27	0.0030	-	-	-	0.0018	0.0010	0.0026	0.0064	0.0036	-	0.0030	0.0046
28	-	-	-	0.0008	0.0016	0.0013	0.0027	0.0079	0.0037	0.0083	0.0017	0.0052
29	-	-	-	0.0003	0.0021	0.0010	0.0008	0.0066	-	0.0082	0.0027	-
30	-	-	-	0.0000	-	0.0013	0.0014	0.0054	0.0066	0.0080	0.0036	0.0042
31	-	-	-	-	-	-	0.0012	0.0094	-	0.0077	-	0.0030

NOTE: - indicates data not available.

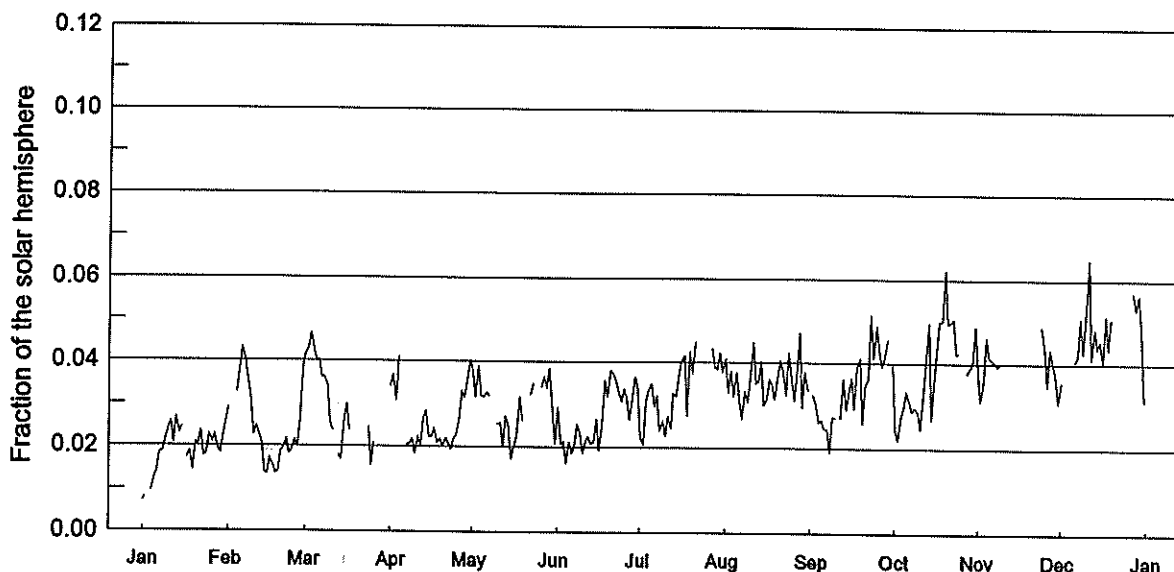
Mt Wilson Daily Calcium Plage
1945

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0044	—	—	0.0170	0.0200	0.0189	0.0059	—	—	0.0216	0.0182	0.0127
2	0.0037	—	—	0.0176	0.0191	0.0160	0.0055	0.0066	0.0143	0.0209	0.0211	—
3	0.0050	0.0087	—	0.0219	0.0205	—	0.0069	0.0110	0.0187	0.0233	0.0205	0.0073
4	0.0107	—	—	0.0220	0.0157	—	0.0097	0.0094	0.0152	0.0256	0.0134	0.0101
5	0.0097	0.0088	0.0080	0.0176	0.0151	0.0194	0.0119	0.0150	0.0231	—	—	0.0081
6	0.0111	0.0098	0.0071	0.0143	0.0137	0.0188	0.0115	0.0148	0.0222	0.0188	—	0.0103
7	0.0141	0.0080	0.0120	0.0099	0.0102	0.0139	0.0091	0.0203	0.0226	—	0.0131	0.0097
8	0.0142	0.0089	0.0111	0.0111	0.0075	0.0132	0.0117	0.0191	0.0190	0.0155	0.0122	0.0111
9	0.0197	0.0076	0.0127	0.0082	0.0059	0.0079	0.0134	0.0249	0.0199	0.0098	0.0146	0.0153
10	0.0145	0.0091	0.0109	0.0054	0.0041	0.0121	0.0179	0.0269	0.0190	—	0.0158	—
11	0.0160	0.0057	0.0080	0.0046	0.0054	0.0100	0.0209	0.0270	0.0170	0.0085	0.0121	0.0197
12	0.0149	0.0069	—	0.0064	—	0.0170	0.0308	0.0299	0.0146	0.0093	0.0237	0.0174
13	0.0230	—	—	0.0077	0.0024	0.0182	0.0317	0.0279	0.0122	0.0143	0.0210	0.0152
14	0.0244	—	—	0.0045	0.0052	0.0194	0.0272	0.0286	0.0113	—	—	0.0319
15	0.0170	—	0.0083	0.0049	0.0072	0.0194	0.0290	0.0280	0.0136	0.0170	0.0344	0.0261
16	0.0179	—	—	0.0063	0.0105	0.0203	0.0267	—	0.0120	0.0220	—	0.0285
17	0.0111	—	0.0088	0.0076	0.0149	0.0159	0.0268	—	0.0088	0.0133	0.0273	—
18	—	—	0.0081	0.0098	0.0131	—	0.0208	0.0156	0.0096	0.0203	0.0248	0.0252
19	0.0137	0.0129	0.0066	0.0125	0.0135	0.0174	0.0125	0.0196	0.0103	0.0226	0.0216	—
20	0.0129	0.0107	—	0.0161	0.0172	0.0225	0.0143	0.0104	—	—	0.0252	—
21	—	0.0119	—	0.0142	0.0157	0.0208	0.0137	0.0114	—	0.0217	0.0207	—
22	0.0073	0.0139	—	0.0134	0.0170	0.0155	0.0149	0.0085	0.0116	0.0202	0.0186	—
23	0.0075	—	0.0067	0.0155	0.0218	0.0171	0.0140	0.0055	0.0132	0.0188	0.0216	—
24	—	0.0079	0.0074	0.0201	0.0209	0.0140	0.0115	0.0097	0.0135	0.0193	0.0225	—
25	—	0.0070	—	—	0.0107	0.0103	0.0138	0.0079	0.0162	0.0215	0.0222	—
26	—	—	0.0077	0.0179	—	0.0121	0.0105	0.0053	0.0116	0.0198	0.0219	—
27	0.0076	—	0.0088	0.0221	—	0.0111	0.0095	0.0029	0.0140	—	0.0218	—
28	0.0052	—	0.0142	0.0201	—	0.0070	0.0115	0.0031	0.0138	—	—	0.0073
29	—	—	0.0200	0.0197	—	0.0083	0.0090	0.0058	0.0183	—	0.0168	0.0072
30	—	—	0.0211	0.0226	0.0166	0.0060	0.0094	0.0048	0.0192	0.0207	0.0166	0.0100
31	—	—	0.0194	—	0.0178	—	0.0035	0.0081	—	0.0179	—	0.0080

NOTE: — indicates data not available.

Mt Wilson Daily Calcium Plage 1946

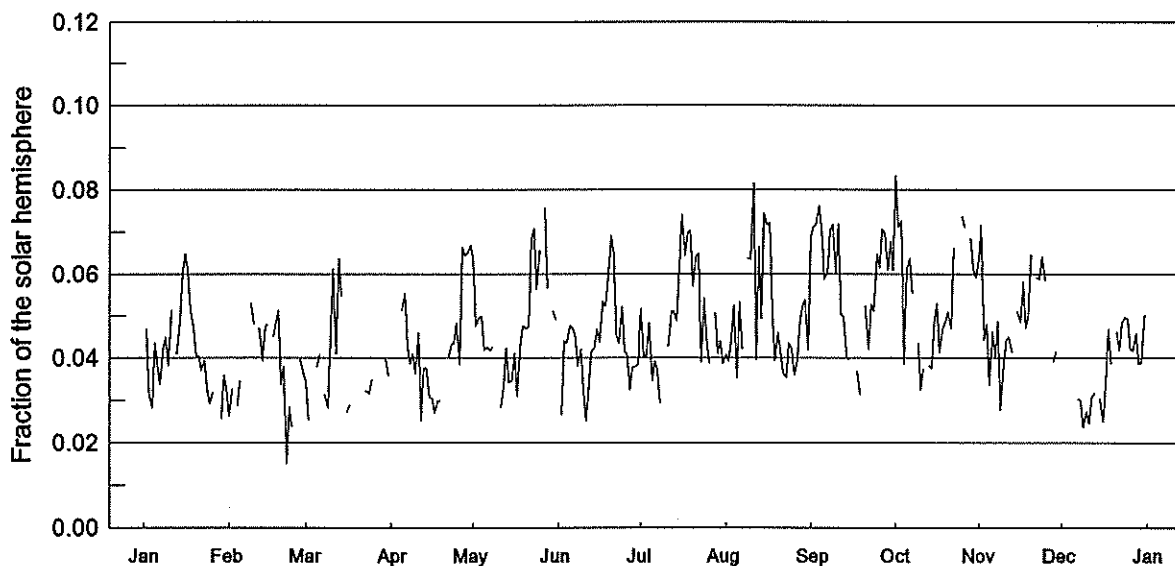
59
Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0072	0.0291	0.0418	0.0342	0.0377	0.0292	0.0224	0.0410	—	0.0396	0.0356	0.0358
2	0.0080	—	0.0431	0.0368	0.0317	0.0208	0.0208	0.0329	0.0325	0.0242	0.0313	—
3	—	—	0.0467	0.0308	0.0390	0.0214	0.0309	0.0381	0.0307	0.0220	0.0359	—
4	0.0095	0.0327	0.0426	0.0413	0.0319	0.0162	0.0336	0.0322	0.0261	0.0276	0.0462	—
5	0.0124	0.0378	0.0399	—	0.0317	0.0212	0.0348	0.0377	0.0267	0.0295	0.0415	—
6	0.0140	0.0432	0.0402	—	0.0328	0.0186	0.0295	0.0312	0.0246	0.0334	0.0408	0.0406
7	0.0183	0.0404	0.0361	0.0205	0.0318	0.0202	0.0322	0.0268	0.0244	0.0310	0.0403	0.0421
8	0.0188	0.0356	0.0362	0.0207	—	0.0254	0.0240	0.0334	0.0191	0.0286	0.0394	0.0509
9	0.0212	0.0320	0.0342	0.0219	—	0.0231	0.0262	0.0306	0.0273	0.0296	0.0402	0.0427
10	0.0235	0.0228	0.0256	0.0183	0.0254	0.0186	0.0227	0.0360	0.0271	0.0286	—	0.0531
11	0.0258	0.0247	0.0236	0.0224	0.0257	0.0214	0.0273	0.0449	—	0.0245	—	0.0648
12	0.0208	0.0230	—	0.0200	0.0200	0.0225	0.0245	0.0352	0.0272	0.0316	—	0.0413
13	0.0268	0.0208	0.0178	0.0266	0.0271	0.0209	0.0326	0.0355	0.0362	0.0396	—	0.0482
14	0.0231	0.0140	0.0168	0.0283	0.0254	0.0212	0.0322	0.0403	0.0290	0.0496	—	0.0438
15	0.0246	0.0133	0.0263	0.0223	0.0171	0.0265	0.0369	0.0301	0.0335	0.0268	—	0.0454
16	—	0.0171	0.0298	0.0223	0.0201	0.0193	0.0404	0.0316	0.0365	0.0349	—	0.0403
17	0.0172	0.0155	0.0237	0.0242	0.0222	0.0255	0.0415	0.0361	0.0292	0.0427	—	0.0515
18	0.0188	0.0137	—	0.0209	0.0317	0.0356	0.0275	0.0348	0.0390	0.0499	—	0.0436
19	0.0144	0.0140	—	0.0219	0.0260	0.0318	0.0426	0.0314	0.0411	0.0501	—	0.0509
20	0.0209	0.0188	—	0.0201	—	0.0381	0.0374	0.0369	0.0259	0.0621	—	—
21	0.0201	0.0195	—	0.0220	—	0.0375	0.0451	0.0407	0.0347	0.0494	—	—
22	0.0237	0.0217	—	0.0209	0.0324	0.0356	—	0.0382	0.0362	0.0498	—	—
23	0.0175	0.0182	—	0.0194	0.0349	0.0333	—	0.0324	0.0515	0.0506	—	—
24	0.0182	0.0191	0.0245	0.0218	—	0.0308	—	0.0425	0.0412	0.0423	0.0489	—
25	0.0227	0.0215	0.0156	0.0226	—	0.0337	—	0.0371	0.0488	0.0425	0.0433	—
26	0.0209	0.0199	0.0211	0.0264	0.0341	0.0315	—	0.0313	0.0428	—	0.0347	—
27	0.0228	0.0259	—	0.0330	0.0364	0.0266	0.0434	0.0377	0.0393	—	0.0435	0.0571
28	0.0195	0.0397	—	0.0315	0.0339	0.0306	0.0388	0.0472	0.0413	0.0377	0.0398	0.0530
29	0.0183	—	—	0.0351	0.0386	0.0366	0.0386	0.0294	0.0457	0.0392	0.0371	0.0565
30	0.0228	—	—	0.0403	0.0284	0.0339	0.0423	0.0379	—	0.0404	0.0308	0.0484
31	0.0259	—	—	—	0.0209	—	0.0379	0.0336	—	0.0488	—	0.0312

NOTE: — indicates data not available.

Mt Wilson Daily Calcium Plage 1947

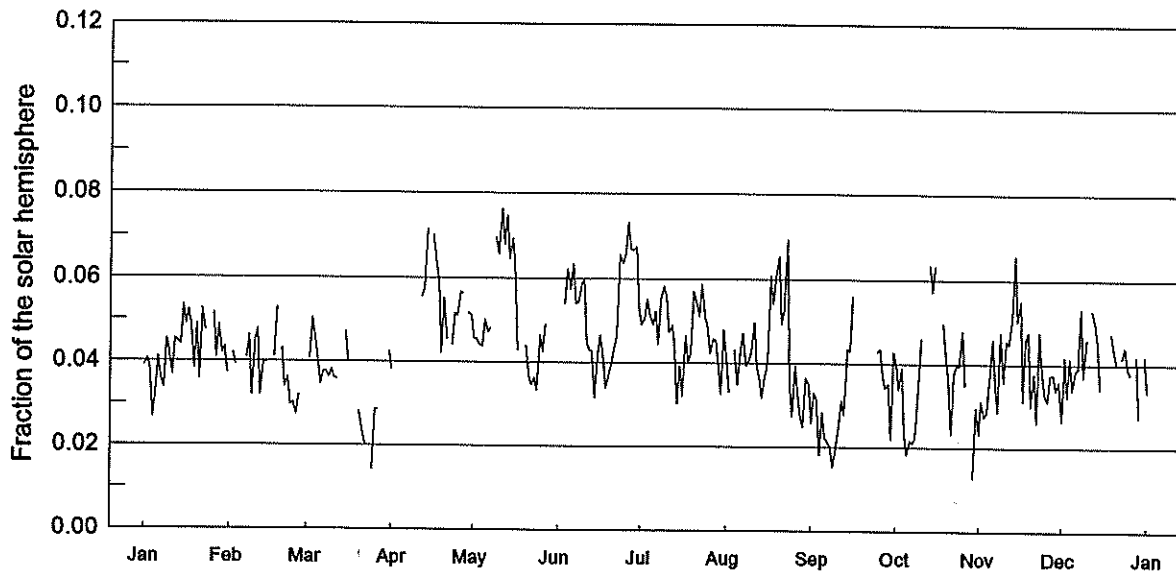


Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	--	0.0262	0.0343	--	0.0633	--	0.0517	0.0408	0.0689	0.0609	0.0637	--
2	0.0469	0.0328	0.0251	--	0.0477	0.0267	0.0402	0.0393	0.0712	0.0833	0.0716	--
3	0.0314	--	--	--	0.0496	0.0440	0.0405	0.0444	0.0717	0.0710	0.0443	--
4	0.0284	0.0288	--	--	0.0499	0.0436	0.0483	0.0524	0.0762	0.0725	0.0479	--
5	0.0435	0.0347	0.0379	0.0513	0.0418	0.0477	0.0345	0.0352	0.0703	0.0386	0.0339	--
6	0.0384	--	0.0408	0.0554	0.0427	0.0471	0.0394	0.0532	0.0588	0.0609	0.0463	--
7	0.0338	0.0427	--	0.0427	0.0417	0.0455	0.0368	0.0420	0.0604	0.0636	0.0402	0.0303
8	0.0422	--	0.0314	0.0387	0.0427	0.0381	0.0293	--	0.0702	0.0553	0.0487	0.0301
9	0.0449	0.0530	0.0282	0.0410	--	0.0420	--	0.0635	0.0716	--	0.0279	0.0237
10	0.0382	0.0480	0.0438	0.0362	--	0.0320	--	0.0634	0.0600	0.0436	0.0381	0.0274
11	0.0514	--	0.0611	0.0460	0.0283	0.0251	0.0428	0.0815	0.0717	0.0325	0.0443	0.0246
12	--	0.0470	0.0409	0.0251	0.0331	0.0325	0.0510	0.0396	0.0504	0.0374	0.0451	0.0308
13	0.0410	0.0393	0.0636	0.0376	0.0423	0.0414	0.0511	0.0664	0.0497	--	0.0413	0.0318
14	0.0485	0.0470	0.0546	0.0376	0.0343	0.0424	0.0489	0.0495	0.0401	0.0382	--	--
15	0.0600	0.0481	--	0.0307	0.0345	0.0468	0.0619	0.0744	0.0394	0.0374	0.0510	0.0304
16	0.0648	--	0.0275	0.0305	0.0411	0.0437	0.0741	0.0716	--	0.0486	0.0486	0.0250
17	0.0608	0.0451	0.0290	0.0271	0.0310	0.0534	0.0644	0.0720	--	0.0529	0.0581	0.0338
18	0.0516	0.0483	--	0.0298	0.0431	0.0522	0.0698	0.0513	0.0369	0.0413	0.0470	0.0468
19	0.0472	0.0513	--	0.0299	0.0477	0.0588	0.0702	0.0394	0.0313	0.0471	0.0500	0.0387
20	0.0405	0.0338	--	--	0.0470	0.0691	0.0570	0.0460	--	0.0486	0.0647	--
21	0.0405	0.0380	0.0319	--	0.0474	0.0646	0.0642	0.0411	0.0524	0.0509	--	0.0461
22	0.0372	0.0152	--	0.0402	0.0683	0.0453	0.0647	0.0364	0.0421	0.0471	0.0591	0.0418
23	0.0395	0.0283	0.0323	0.0431	0.0707	0.0436	0.0390	0.0354	0.0527	0.0661	0.0588	0.0482
24	0.0328	0.0237	0.0316	0.0436	0.0563	0.0521	0.0542	0.0435	0.0511	--	0.0641	0.0496
25	0.0292	--	0.0349	0.0482	0.0656	0.0415	0.0430	0.0424	0.0647	--	0.0583	0.0493
26	0.0320	--	--	0.0385	--	0.0406	0.0387	0.0359	0.0615	0.0737	--	0.0420
27	--	0.0398	--	0.0661	0.0757	0.0324	--	0.0395	0.0706	0.0710	--	0.0417
28	--	0.0362	--	0.0643	0.0564	0.0378	0.0507	0.0485	0.0696	--	0.0393	0.0458
29	0.0257	--	--	0.0648	--	0.0379	0.0410	0.0523	0.0609	0.0683	0.0415	0.0387
30	0.0360	--	0.0397	0.0668	0.0511	0.0386	0.0440	0.0537	0.0677	0.0612	--	0.0389
31	0.0326	--	0.0356	--	0.0490	--	0.0389	0.0418	--	0.0592	--	0.0503

NOTE: -- indicates data not available.

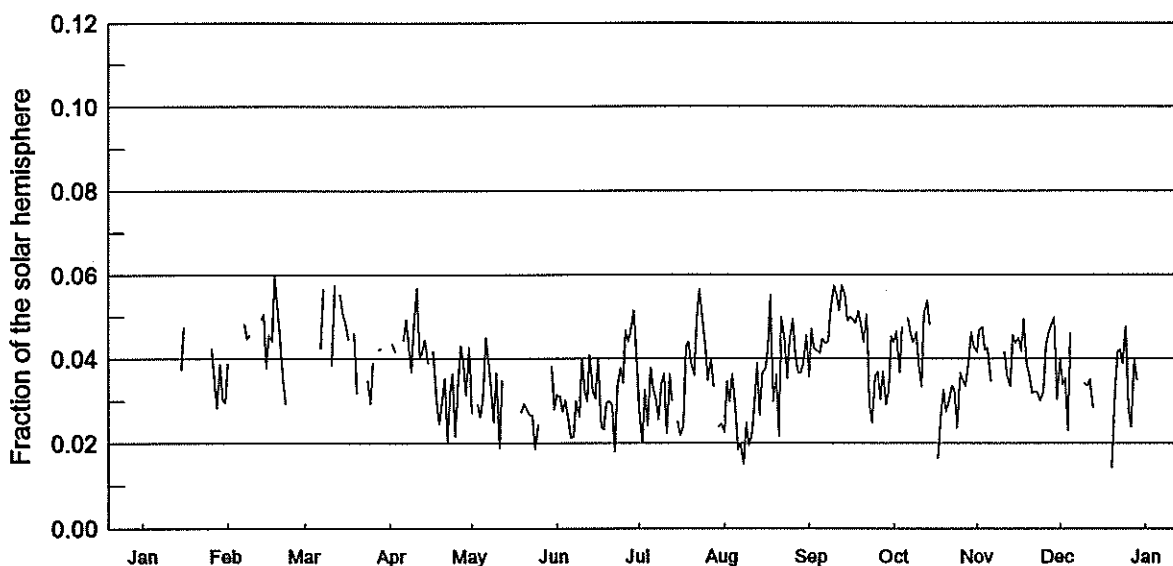
Mt Wilson Daily Calcium Plage 1948

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Misc



Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0391	—	0.0408	—	0.0457	—	0.0505	0.0331	0.0330	0.0399	0.0313	0.0417
2	0.0406	0.0421	0.0504	—	0.0441	0.0540	0.0550	—	0.0315	0.0340	0.0274	0.0323
3	0.0387	0.0391	0.0447	0.0335	0.0437	0.0622	0.0515	0.0430	0.0182	0.0390	0.0284	0.0414
4	0.0267	—	0.0402	—	0.0501	0.0575	0.0491	0.0350	0.0284	0.0233	0.0359	0.0339
5	0.0326	—	0.0345	—	0.0472	0.0636	0.0523	0.0423	0.0226	0.0183	0.0459	0.0385
6	0.0411	—	0.0376	0.0359	0.0482	0.0540	0.0444	0.0472	0.0209	0.0216	0.0351	0.0390
7	0.0363	0.0410	0.0378	—	—	0.0543	0.0551	0.0395	0.0200	0.0210	0.0287	0.0533
8	0.0338	0.0462	0.0364	0.0391	0.0697	0.0586	0.0582	0.0407	0.0152	0.0225	0.0475	0.0371
9	0.0453	0.0320	0.0382	—	0.0658	0.0599	0.0557	0.0425	0.0201	0.0351	0.0358	0.0461
10	0.0424	0.0449	0.0362	—	0.0763	0.0450	0.0473	0.0496	0.0248	0.0463	0.0456	—
11	0.0367	0.0478	0.0360	0.0557	0.0680	0.0429	0.0488	0.0391	0.0313	—	0.0447	0.0530
12	0.0454	0.0320	—	0.0578	0.0748	0.0428	0.0450	0.0364	0.0278	—	0.0508	0.0497
13	0.0447	0.0401	—	0.0716	0.0647	0.0316	0.0304	0.0318	0.0435	0.0634	0.0658	0.0448
14	0.0440	0.0398	0.0472	—	0.0693	0.0411	0.0393	0.0364	0.0429	0.0572	0.0502	0.0340
15	0.0534	—	0.0400	0.0701	0.0603	0.0466	0.0322	0.0403	0.0561	0.0634	0.0550	—
16	0.0489	—	—	0.0649	0.0428	0.0410	0.0466	0.0607	—	—	0.0312	—
17	0.0523	0.0413	0.0413	0.0589	—	0.0340	0.0402	0.0542	—	—	0.0460	—
18	0.0485	0.0531	—	0.0422	—	0.0369	0.0423	0.0606	—	0.0496	0.0477	0.0474
19	0.0383	—	0.0282	0.0552	0.0440	0.0401	0.0570	0.0654	—	0.0423	0.0301	0.0432
20	0.0490	0.0430	0.0247	0.0454	0.0363	0.0436	0.0544	0.0493	—	0.0367	0.0377	0.0397
21	0.0358	0.0342	0.0206	—	0.0347	0.0466	0.0512	0.0528	—	0.0234	0.0261	—
22	0.0527	0.0362	0.0198	0.0441	0.0364	0.0656	0.0588	0.0694	—	0.0378	0.0476	0.0417
23	0.0474	0.0297	—	0.0516	0.0333	0.0638	0.0511	0.0360	—	0.0397	0.0383	0.0441
24	—	0.0304	0.0142	0.0511	0.0465	0.0658	0.0487	0.0274	0.0428	0.0396	0.0325	0.0387
25	—	0.0274	0.0286	0.0567	0.0425	0.0733	0.0424	0.0394	0.0435	0.0479	0.0313	0.0376
26	0.0516	0.0321	0.0287	0.0563	0.0491	0.0671	0.0458	0.0321	0.0373	0.0348	0.0374	—
27	0.0410	—	—	—	—	0.0666	0.0453	0.0275	0.0343	—	0.0375	0.0418
28	0.0487	0.0328	—	0.0517	0.0498	0.0675	0.0395	0.0249	0.0354	—	0.0339	0.0271
29	0.0420	—	—	0.0512	—	0.0533	0.0326	0.0365	0.0220	0.0127	0.0359	—
30	0.0433	—	0.0425	0.0457	—	0.0492	0.0480	0.0353	0.0428	0.0297	0.0265	0.0419
31	0.0372	—	0.0380	—	—	—	0.0400	0.0258	—	0.0233	—	0.0334

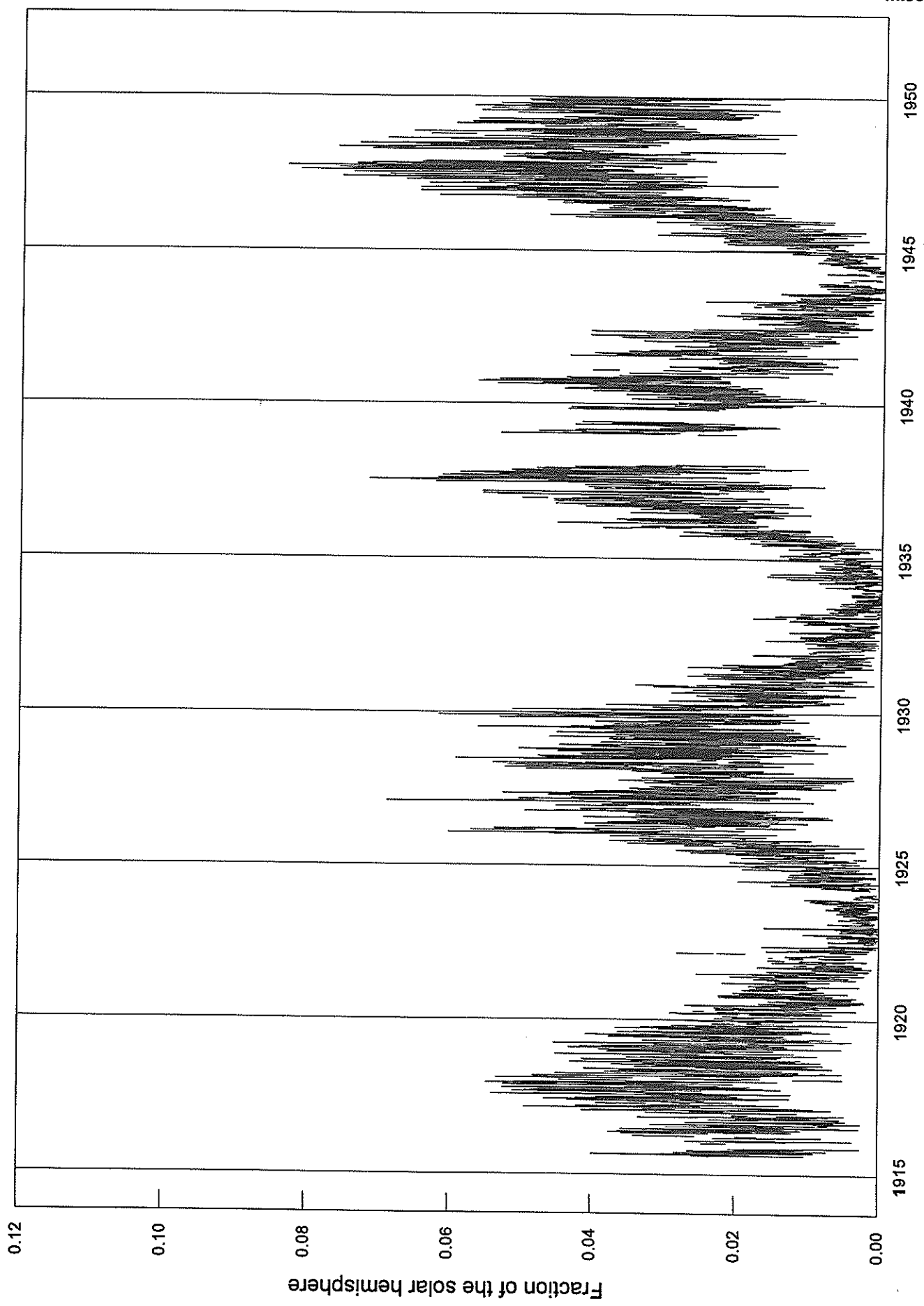
NOTE: — indicates data not available.

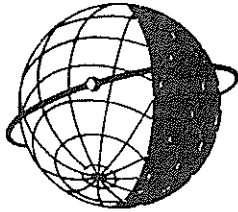
Mt Wilson Daily Calcium Plage
1949

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0265	0.0390	—	—	0.0270	0.0314	0.0281	0.0228	0.0357	0.0454	0.0416	0.0400
2	—	—	—	0.0436	—	0.0310	0.0201	0.0345	0.0470	0.0438	0.0468	0.0340
3	—	—	—	0.0416	0.0293	0.0274	0.0324	0.0299	0.0423	0.0465	0.0475	0.0353
4	—	—	—	—	0.0262	0.0302	0.0241	0.0362	0.0419	0.0367	0.0421	0.0231
5	—	0.0378	—	—	0.0302	0.0253	0.0377	0.0285	0.0412	0.0475	0.0425	0.0461
6	—	—	—	0.0444	0.0450	0.0212	0.0326	0.0185	0.0448	—	0.0345	—
7	—	0.0482	0.0425	0.0493	0.0394	0.0217	0.0306	0.0199	0.0436	0.0496	—	—
8	—	0.0447	0.0568	0.0430	0.0327	0.0301	0.0257	0.0150	0.0441	0.0463	—	0.0431
9	—	0.0457	—	0.0368	0.0250	0.0262	0.0343	0.0249	0.0521	0.0438	—	—
10	—	—	—	0.0478	0.0366	0.0401	0.0363	0.0195	0.0572	0.0462	—	0.0341
11	—	—	0.0386	0.0568	0.0189	0.0323	0.0223	0.0223	0.0553	0.0379	0.0415	0.0336
12	—	—	0.0577	0.0401	0.0349	0.0301	0.0362	0.0299	0.0515	0.0333	0.0359	0.0350
13	—	0.0493	—	0.0417	—	0.0408	0.0300	0.0389	0.0574	0.0509	0.0335	0.0283
14	—	0.0506	0.0552	0.0446	—	0.0322	—	0.0265	0.0553	0.0537	0.0457	—
15	0.0375	0.0378	0.0502	0.0389	—	0.0307	0.0252	0.0365	0.0490	0.0480	0.0437	—
16	0.0477	0.0457	0.0482	—	—	0.0401	0.0220	0.0376	0.0499	—	0.0451	—
17	—	0.0441	0.0444	0.0417	—	0.0238	0.0243	0.0424	0.0495	—	0.0417	—
18	—	0.0599	—	0.0300	—	0.0233	0.0428	0.0551	0.0484	0.0164	0.0495	—
19	—	0.0526	0.0460	0.0245	0.0274	0.0296	0.0438	0.0298	0.0513	0.0269	0.0389	—
20	—	0.0458	0.0317	0.0290	0.0292	0.0298	0.0389	0.0363	0.0483	0.0324	0.0362	0.0143
21	—	0.0368	—	0.0353	0.0279	0.0288	0.0361	0.0217	0.0438	0.0276	0.0319	0.0320
22	—	0.0291	0.0383	0.0203	0.0265	0.0180	0.0488	0.0499	0.0505	0.0303	0.0321	0.0416
23	—	—	—	0.0315	0.0265	0.0329	0.0564	0.0445	0.0292	0.0335	0.0319	0.0422
24	—	0.0380	0.0347	0.0364	0.0187	0.0378	0.0494	0.0354	0.0248	0.0324	0.0301	0.0389
25	—	—	0.0294	0.0216	0.0244	0.0343	0.0436	0.0444	0.0360	0.0236	0.0321	0.0476
26	0.0423	—	0.0391	0.0351	—	0.0467	0.0349	0.0494	0.0368	0.0365	0.0427	0.0281
27	0.0354	—	—	0.0431	—	0.0440	0.0399	0.0404	0.0304	0.0348	0.0460	0.0239
28	0.0283	0.0316	0.0420	0.0385	—	0.0465	0.0333	0.0366	0.0368	0.0336	0.0483	0.0401
29	0.0387	—	0.0425	0.0314	—	0.0514	—	0.0367	0.0291	0.0399	0.0497	0.0349
30	0.0302	—	—	0.0427	0.0381	0.0410	0.0239	0.0391	0.0324	0.0463	0.0304	—
31	0.0295	—	0.0497	—	0.0280	—	0.0246	0.0455	—	0.0428	—	0.0327

NOTE: — indicates data not available.

Mt Wilson Daily Calcium Plage

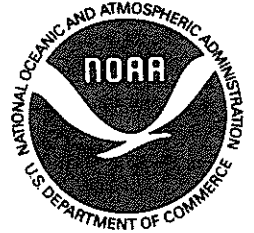




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The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."