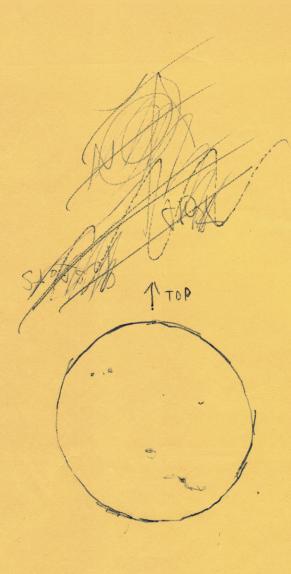
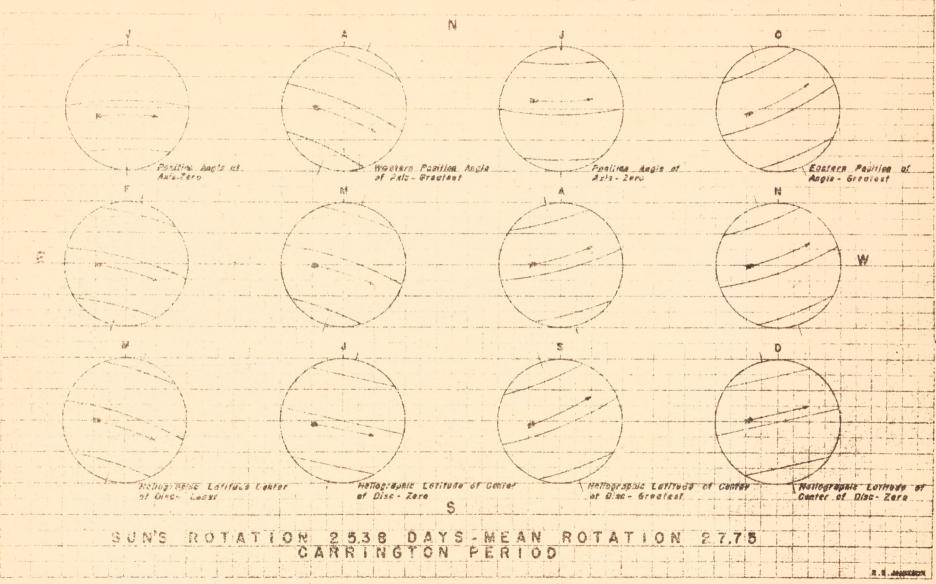
30 mm refractor



OCT 14, 1957 (**** E) 14 shots (14 hr EDT)

The mean opported delity motion of a Sua-Spot with respect to the control meridian on the Suas disc is 13.2. A long lived spot appears to cross the visible disc of the Sua in 13-14 days.

THE PATHS OF SUN-SPOTS AT DIFFERENT SEASONS



the second secon

RESERVE A ERSER OF

•	TYPE NO 1	TYPE NO 2	TYPE NO 3	TYPE, NO 4
GROUP	•	• 4	<i></i>	
В		, , , , , , , , , ,		Y
C	\$4.5°		, AP	
D	We have the			
Partie Company				
g-stant Guess				
G		* **		34
H				
J		erry.		

0° 10° 20° 30°

ted.

0%;

A A V S O - SOLAR DIVISION - SUNSPOT REPORT FOR DECEMBER 1959.

Name GEOFFREY GAHERTY JR

Address 636, SYDENHAM	AVENUE, MONTREAL 6	Instrument	2" REFRACTOMethod	PROJECTION (5" DISK
		TIID OI amoile	- 110 011 00	reconstitution (man)

Addr	cess 636	, SYDENH	AM AV	ENVE,	MONTRE	the In	strume	nt ["	REFRACT	Method PROJECTION (5" DISK
a D ay	c d Vis	e U.T.	f gr	g g	R	j N-GR		l N-Sp		Remarks
1			***************************************							
2										
3							•			
4										7
5					•					W
6										
7										
8							*			
9						-				
10										
11				•						
12										
13										
14	•									
15										
16										
17.								•		
18										- AV
19										
20						-				
21										
22										
23										
24	63	18:55	8	23	103	7	Ř.	22	1	1.05
25	F6	15:30		14	84	6	Juntengo	13	and the second	LIGHT CLOUDS OVER SUN.3
26	63	16:50		19	109	8	1	18	1	0.87
27			-							/
28										
29										
30										
31	-								!	A
707.			211	56		2!		53	3	R=787 1.08
	Visibil	ity: T.	G.F.P	and a state of the same	No.	of Spot	ts 1	- No-	of so	ots N hemisphere [1]

c - Universal Time f - No. of Groups

N hemisphere - Totals

k - No. of Groups R - 10f-g S hemisphere

d - Cloudiness: C-10 j - No. of Spots | 1 - No. of spots N hemisphere | 18

A A V S O - SCLAR DIVISION - SUNSPOT REPORT FOR JANUARY ... 19.60.

Name GEOFFREY GAHERTY, JR

Addre	ss 636,	SY DENI	lam /	AVENUE	, MONTRE	AL 6.In	strume	nt 2" R	EFR.	Method PROJECTION
a D ay	c d Vis	e U.T.	f gr	ap g	R	j N-GR	k S-GR	l N-Sp	m Տ-Տ ք	Remarks
1	61	16:05	9	13	103	7	2	11	2	j. k. L. m. uncertain. 1.32
2		(*				The state of the s
3	2									
4										
5										W
6										
7										
8										
9								3 7		
10		-								
11										
12										
13				•	,					
14										
1 5				•••••••••••						
16				•						
17	Go	16:55	9	15	105	6	3	11	4	101-
18	F6	19:20		10	70	5	1	9		1.27
19			N							
20										and the second s
21										
22										
23										
24	ΕZ	17:45	7	.32	102	6.	1	30	2	IMAGE VERY STEADY 1.27
25	Gu	19:30	Å	43	123	1	Ž	38	5	111511
26	GI	18:05	9	46	136	7	2	41	5	WINDY 1.54
27		,	1	7.0	120				1	· · · · · · · · · · · · · · · · · · ·
28							,			
29										
30	F6	18:30	q	42	132	7	2	33	q	(135
31	60	18:05	8	41	121	. 6	2	29	12	1.67
TOTAL	7	73.4	65	242		50	15	202	40	R=111.5 F1.25 1.32
	isibil	ity:T,			No.	of Spot	dram		of spe	ots N hemisphere

c - Universal Time

f - No. of Groups

N hemisphere - Totals k - No. of Groups R - 10f+g S hemisphere

d - Cloudiness: C-10 j - No. of Groups m - No. of spots S hemisphere

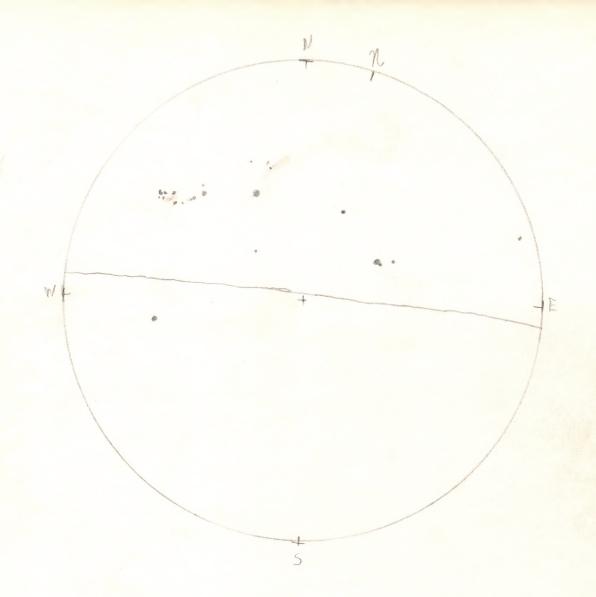
A A V S O - SOLAR DIVISION - SUNSPOT REPORT FOR FEBRUARY .. 19.69.

	Name												
	Address Instrument 2" REFR. Method PROJECTION												
	a D ay	c d Vis	e U.T.	f gr	g g	R	j N-GR	k S- GR	l N-Sp	m S-S p	Remarks		
	1												
(01)	2												
	3												
	4												
	5												
	6												
	7 8						······································						
	9						•••						
	10												
·	11)									
	12										*		
	13												
~	14				· · · · · · · · · · · · · · · · · · ·								
	15												
	16												
	17												
	18												
	19						ļ						
	20												
	21	PO	16:15	4	8	.48	3	1	7	1	.46		
	22												
	23												
	25									, , , , , , , , , , , , , , , , , , , ,			
	26												
	27	į											
	28	FI	18:25	5	12	62	2	3	7	5	WINDX, j, k, l, m, +.32		
	29										uncertain		
	30					900							
^	31						are for				A .		
				9	20		5	4	14	6	R=55.0 ←1.23 1.14		
	d - C:	loudin nivers	ity:E,(ess: 0 al Tim Groups	-10 e	j -	No.	of Spotof Grower of Growen Spotof Grown Spot	ips m ere ips R	- No No Tota - 10f	of sp	ots N hemisphere oots S hemisphere 3.80 + 2.28 = 10.83 = 1.24		

A A V S O - SOLAR DIVISION - SUNSPOT REPORT FOR . MARCH... 19.60.

Name

_	Address Instrument 2" RFR Method PRo J.											
a	c d	e	f	g		j	k	1	m	Remarks		
Day	Vis	U.T.	gr	ap	R	N-GR	S-GR	N-Sp	S-Sp			
1	FO	20:10	4	10	50	2	2	7	3	MINDY		
2												
3		-										
4												
5												
6												
7												
8					1							
10	60	19:30	6	21	81	4	2	13	8			
11	Go	18:20	5	19	69	4	1	14	5			
12					••••							
13		7		•••••			7					
14												
15												
16	F6	17135	4	14	54	1	7	L	d	1 GR. ISP. ON EQUATOR -		
17												
18										THE THE PERSON NAMED IN TH		
19					•							
20												
21	62	19:40	5	13	63	Ų	1	11	2	MINDY .		
22												
23												
24												
25										VERY CLEAK BUT TOO WINDY		
26												
27					N. A. W. S.							
28												
29 30												
									i			
31										, and the state of		
C = 1	'isibil	it.v.T	C F P	G-	No	of Spot	ta 1	- No	of govern	ota N hemianheno		
d - 0 c - U	loudin nivers	j -	No. No.	of Growenisphe of Growenisphe of Growenisphe	ips m ere ips R	- No No Total	of spals	ots N hemisphere pots S hemisphere				

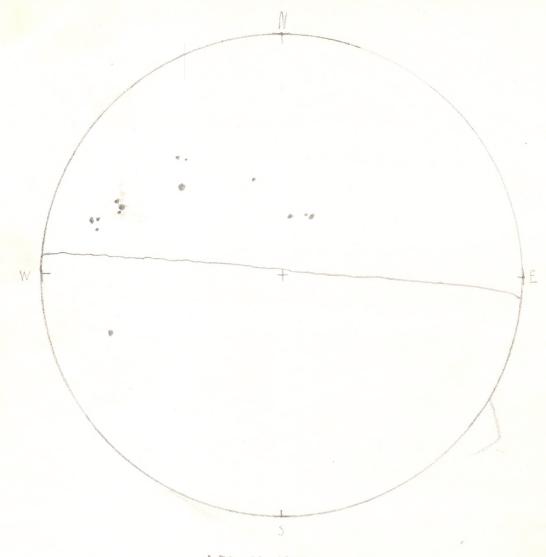


DECEMBER 24, 1959 13:55 E.S.T. 18:55 U.T. VIS: 63

N 7 22 S 1 1 T 8 23

R=103

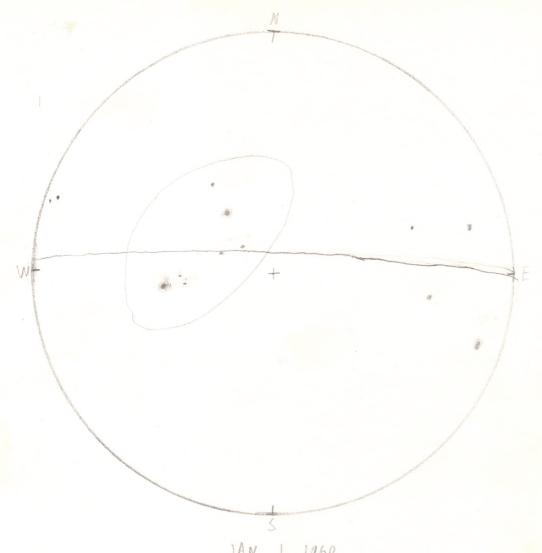
NOTE: & employ from observation on Dec. 25 that cardinal points + equator are incorrect. The Dec. 25 observation implies a north point at "h".



DEC. 25, 1959 10:30 EST 15:30 U.T. VIS. F6

N 6 SP S 1 1 T 7 14. R=84

SP 18 9 R = 109



JAN. 1, 1960

11:05 EST. 16:05 U.T.

VIS: 61

OROUPS SPOTS

N 6
5 4 6

TOT 10 13

R=113

Note: I believe that the detail encirthed was incorrectly placed and should be considered in the northern benisphere:

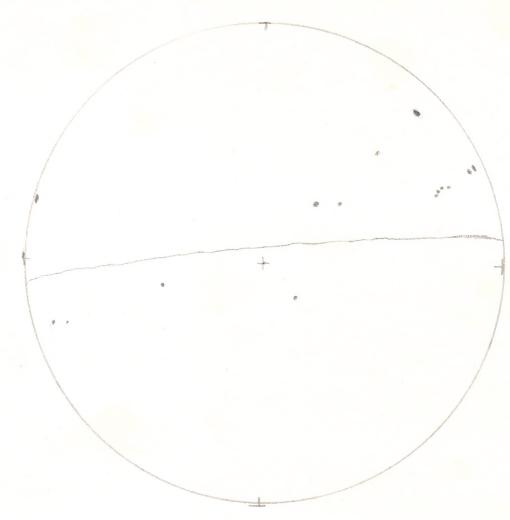
N GROUPS SPOTS

S 7 11

S 2 2

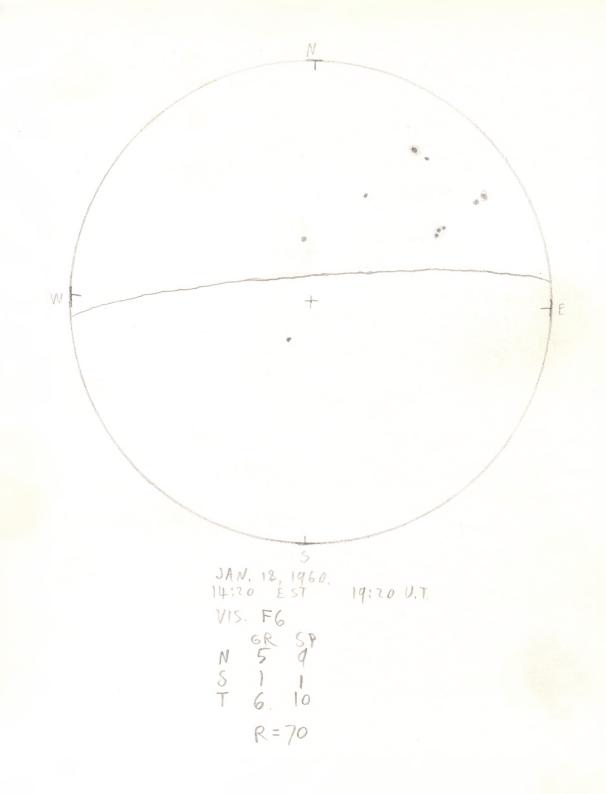
TOT 9 13

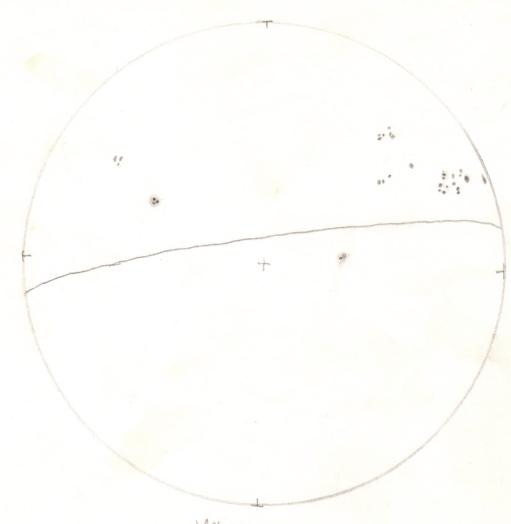
R=103



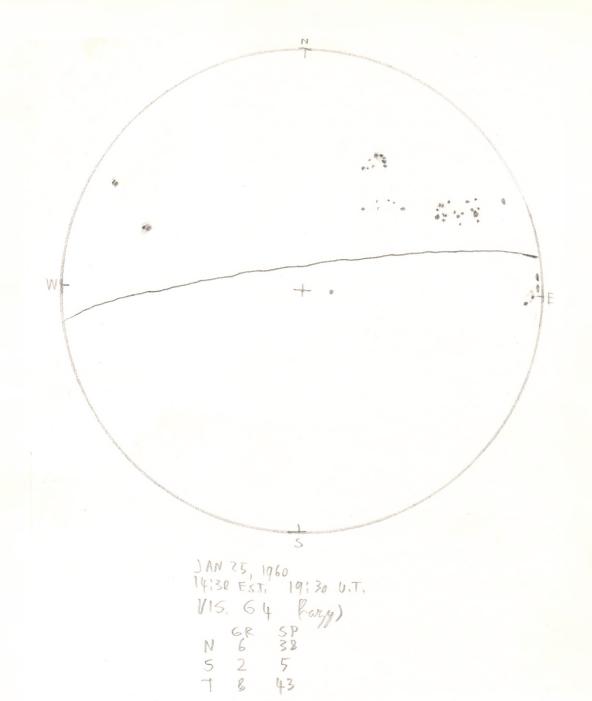
2AN 17, 1960 11:55 EST. 16:55 VT. VIS: 60

OR SP N 6 11 5 3 4 T 9 15 R=105

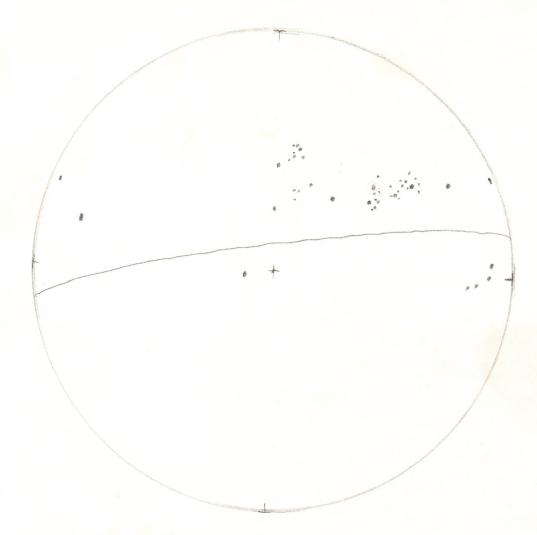




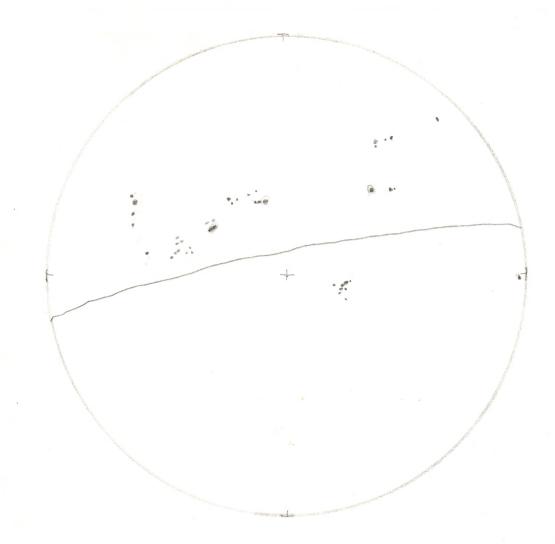
JAN. 24, 1960 12:45 EST. 17:45 U.T. VIS E3 (image very bleady) N 6 30 S 1 2 T 7 32 R= 102



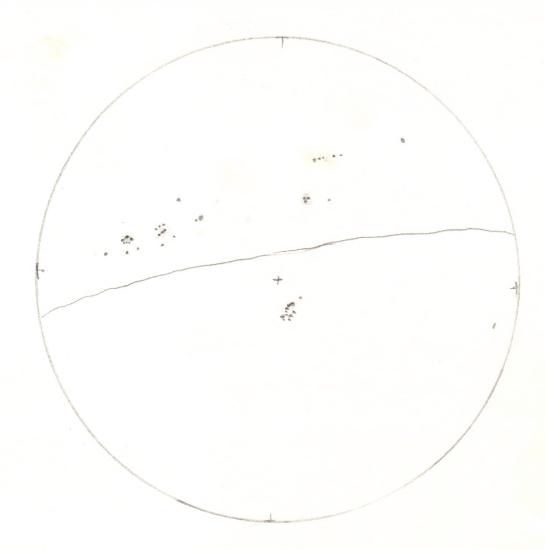
R=123



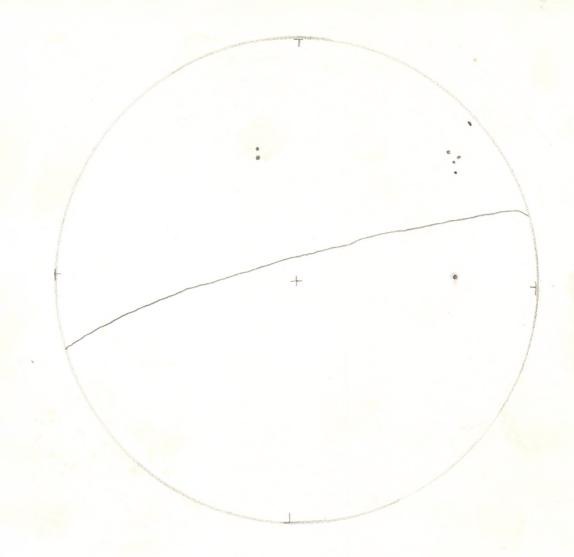
JAN 26, 1960 13:05 EST, 18:05 U.T. VIS. 61 (wandy) OR SP N 7 41 S 2 5 T 9 46 R= 136



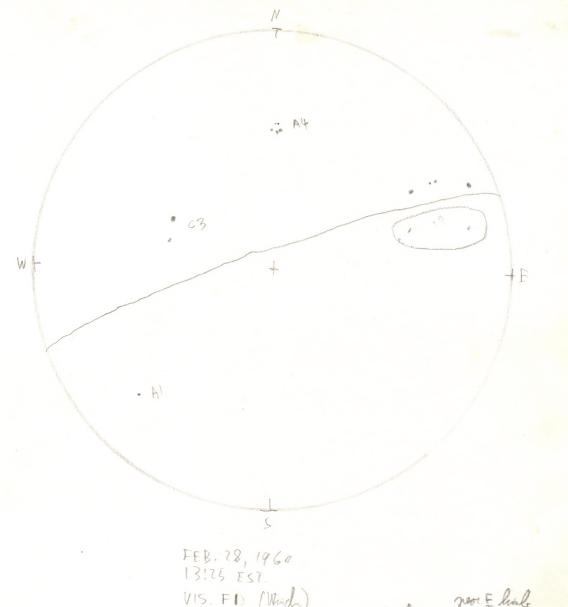
JAN 30, 1960 13:30 E.S.T. 18:30 U.T. VIS. F6 N 7 33 S 2 9 T 9 42 R=132



JAN 31, 1960 13:05EST. 18:05 U.T. VIS. 60 N 6 29 S 2 12 T & 41 R=121



FEB 21, 1960 11:15 F.S.T. VIS: PO. GR SP N 3 7 S 1 TOT 4 8 R=48

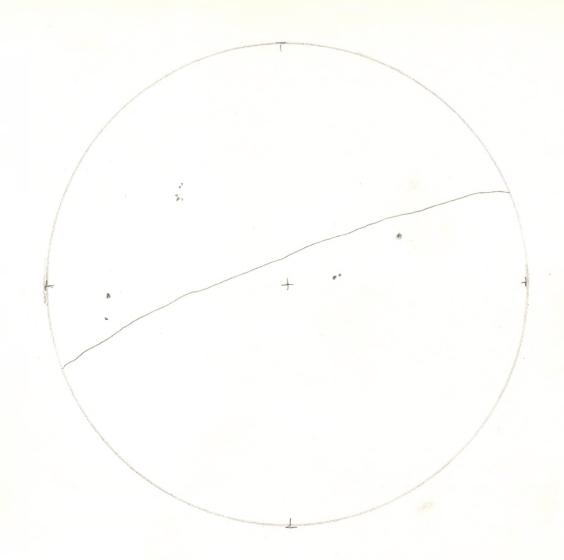


FEB. 28, 1960 13:25 EST. VIS. FD (Windy) GR SP N 4 11 S 1 1 T 5 12 R=162

I believe spotspare too for north: GR SP N 2 7

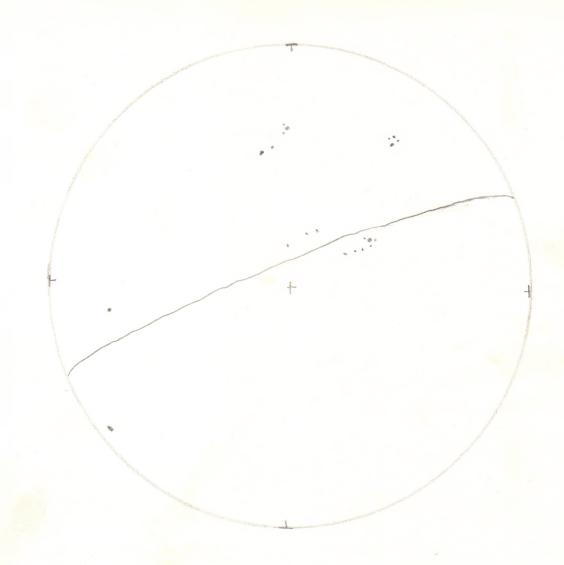
GR SP N 2 7 S 3 5 5 12

R=62

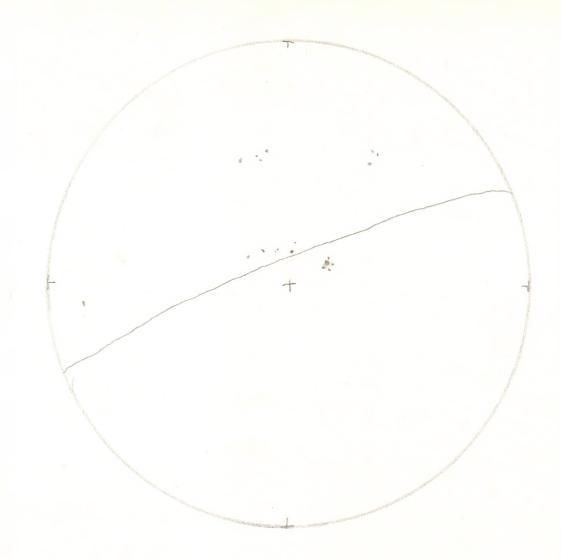


MAR 1, 1960 15:10 EST. 20:10 V.T VIS. FO (Windy) GR SP N 2 7 S 2 3 Tot 4 10 R=50

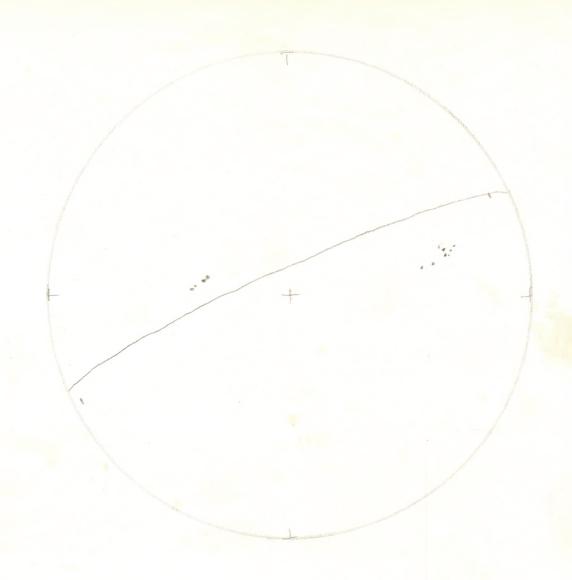
ī



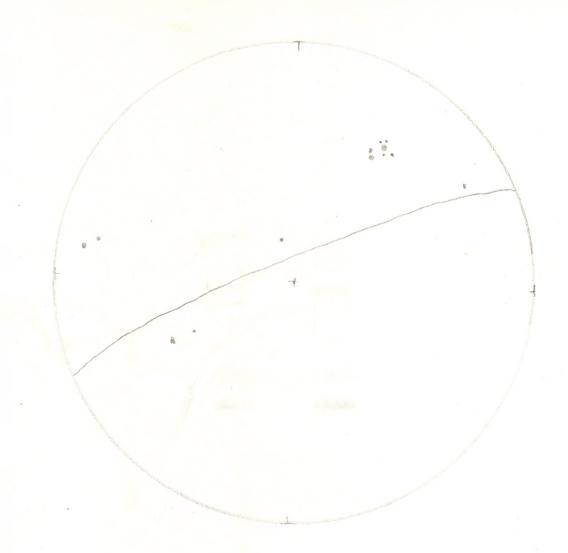
MAR 9, 1960 14:30 EST. 19:30 V.T. VIS.: GO GR SP N 4 13 S 2 8 T 6 21 R=81



MARCH 10, 1660 13:20 EST 12:20 U.T. VIS. 60 N 4 14 5 1 5 T 5 19 R=69



MARCH 16, 1960 12:35 ES.T. 17:35 U.T. VIS. F6 GR SP N 1 4 S 2 9 EQ 1 14 R = 54



MAR. 71, 1960 14: 40 EST, 19:40 U.T. VIS; GZ (Windy)