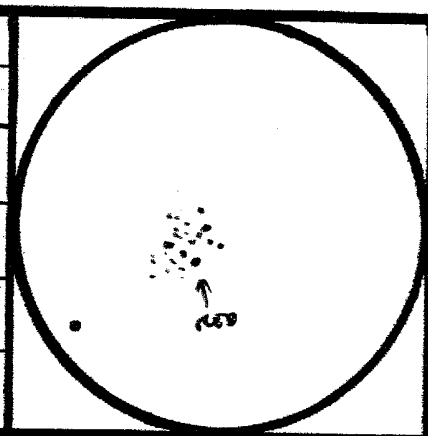
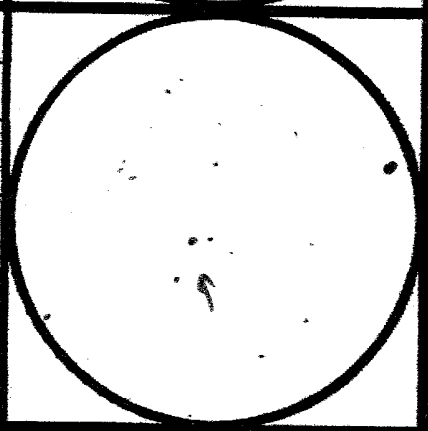
η Car Nebula impossible to see with 4mm

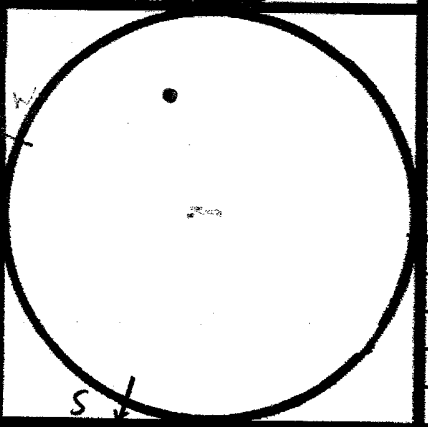
x3

HERSCHEL OBSERVATIONS

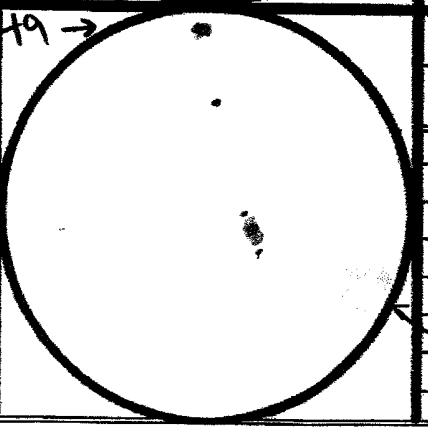
NGC		SITE 02SKY	SEEING III / TRANS II
CONST		INSTR 18"	EYEPIECE 31 NAT / POWER 66x
Jewel Box		COMMENTS	
DATE 4/1/11			
TIME 9:00			

NGC IC 2501		SITE "	SEEING " / TRANS "
CONST		INSTR 18	EYEPIECE 17 / POWER 121
		COMMENTS	
DATE 4/1/11		TNM sl. dim no color	
TIME 9:30			

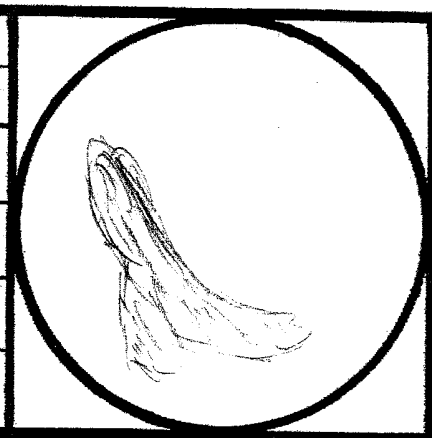
SPN

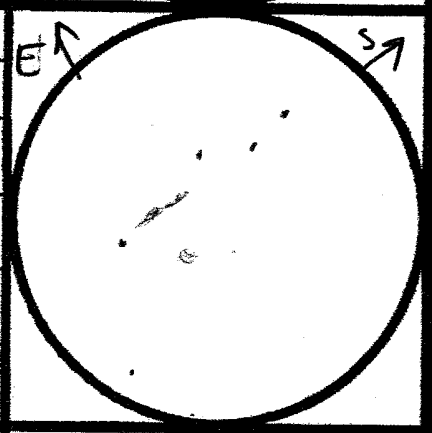
NGC IC 2531		SITE "	SEEING " / TRANS
CONST Ant		INSTR 18	EYEPIECE 17 / POWER 121
NFGC 1682		COMMENTS "Brown" & dim	
DATE 4/1/11		W PA=100	
TIME 9:40			

SAME FLAT

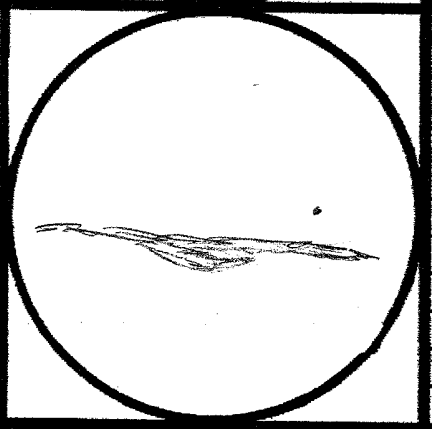
NGC N1549		SITE "	SEEING " / TRANS
CONST		INSTR 25	EYEPIECE 17 / POWER 168x
		COMMENTS	
DATE 4/1/11		IN FLD OF IC 2058 (not seen)	
TIME 10:00		N1553	

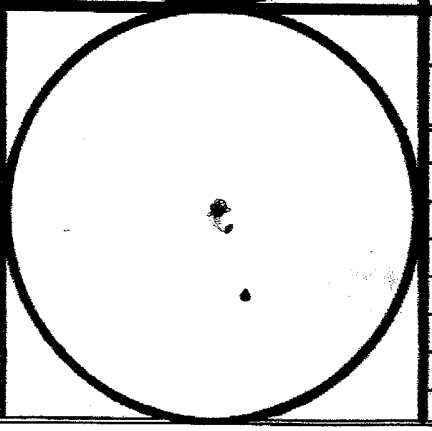
HERSCHEL OBSERVATIONS

NGC 3199		SITE O2SKY	SEEING I- TRANS I
CONST		INSTR 30	EYEPIECE 8E POWER 430X
		COMMENTS Crescent nebula	
DATE 9/2/11			
TIME 9:50			

NGC IC 2058		SITE "	SEEING " TRANS
CONST PN 1553		INSTR 30	EYEPIECE 17 POWER 202x
RFGC 824		COMMENTS Very mottled strange	
Dor		wavy pattern & elliptical (N 1553)	
DATE "		Nearby PA ≈ 180°	
TIME 10:10			

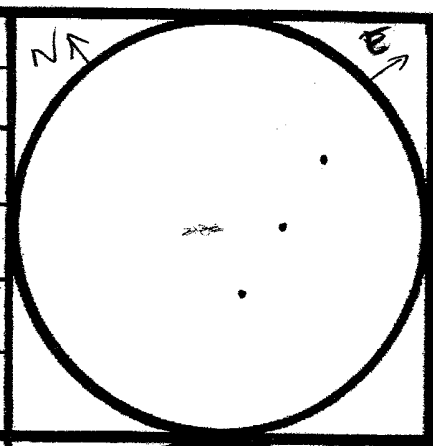
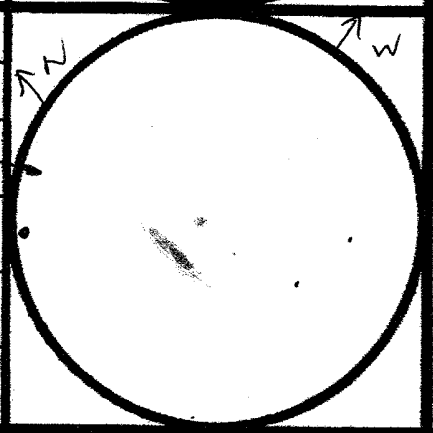
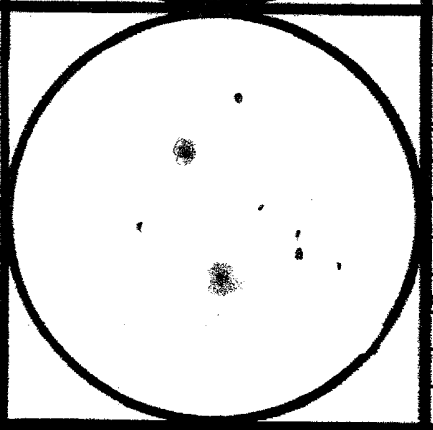
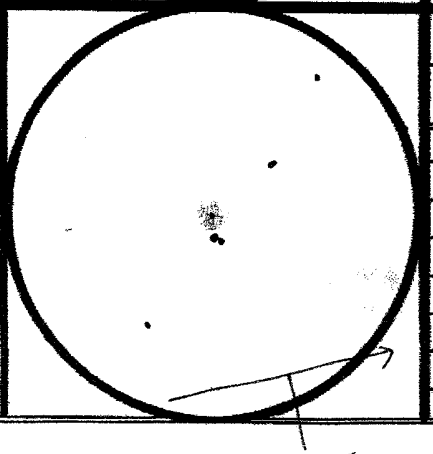
FLAT SAM

NGC 2376		SITE "	SEEING " TRANS
CONST		INSTR 30	EYEPIECE 31 POWER 66X
		COMMENTS W/O3	
DATE "			
TIME 10:20			

NGC 1574		SITE "	SEEING " TRANS
CONST		INSTR 30	EYEPIECE 13 W/O3 POWER 264X
		COMMENTS Bright & small w/ hook	
DATE "		to star or ?	
TIME 10:30			

SAM

HERSCHEL OBSERVATIONS

NGC 1886		SITE 02	SEEING I	TRANS I	
CONST Lep		INSTR 18	EYEPIECE 13E	POWER 158X	
RFGC 970		COMMENTS DUST LANE SEEN PA = 120°			FLAT
DATE 4/3/11					
TIME 7:25					
NGC 1532		SITE "	SEEING "	TRANS	
CONST +1531		INSTR 18	EYEPIECE 13E	POWER 158X	
		COMMENTS Very elongated w/ small ellip.			SARP
DATE "					
TIME 7:35					
NGC 1546+		SITE "	SEEING "	TRANS	
CONST 1553		INSTR 18	EYEPIECE 13E	POWER 158X	
		COMMENTS 2 nice ellips w/ bright nucleus ← 1553			SARP
DATE "					
TIME 7:45					
NGC 1703		SITE	SEEING	TRANS	
CONST		INSTR 18	EYEPIECE 13E	POWER 158X	SARP
		COMMENTS NO STRUCTURE STELLAR NUC ① -6S			
DATE "					
TIME 7:50					

SAT

HERSCHEL OBSERVATIONS

NGC 2381		SITE 02	SEEING I	TRANS I
CONST		INSTR 18	EYEPIECE 13E	POWER 158X
		COMMENTS Between 2 stars – stellar nuc		SAMP
DATE 4/3/11				
TIME 9:00				
NGC 2200 +A		SITE "	SEEING "	TRANS
CONST		INSTR "	EYEPIECE "	POWER "
		COMMENTS BOTH SMALL – NO DETAIL		SAMP SAMP
DATE 4/3/11				
TIME 9:10				
NGC 3115 +	?	SITE "	SEEING "	TRANS
CONST		INSTR 18	EYEPIECE 22	POWER 87X
		COMMENTS HADN'T NOTICED NEARBY GALAXY BEFORE		
DATE "		NOT LISTED ON U279! (?)		
TIME 9:20				
NGC 3044		SITE "	SEEING "	TRANS
CONST Sex	E	INSTR 18	EYEPIECE 13E	POWER 158X
NGC 1654		COMMENTS Very flat, quite a nice mottled view PA = 110°		FLAT
DATE "				
TIME 9:30	S			

③

1x by Ladillan

HERSCHEL OBSERVATIONS

NGC		SITE 02	SEEING I TRANS I
CONST		INSTR 25	EYEPIECE 17 POWER 168
47 Tuc		COMMENTS PINK STARS!	
DATE 4/4/11			
TIME 7:00			

NGC		SITE "	SEEING " TRANS
CONST NGC 1295		INSTR 25	EYEPIECE 17 POWER 168
#60 Pup		COMMENTS	
ESO 209-G009		→ PA=110°	FLAT
DATE 4/4/11		W	
TIME 7:30		Very flat thin, long needle, some mottle	

NGC		SITE "	SEEING " TRANS
CONST		INSTR 25	EYEPIECE 17 POWER 168 SAME
ESO 34-G012		COMMENTS Round mottly galaxy seen	
DATE "		FLAT NOT SEEN	
TIME 7:45			

NGC 2442		SITE "	SEEING " TRANS
CONST		INSTR 25	EYEPIECE 17 POWER 168
		COMMENTS MEAT HOOK	
DATE "			
TIME 8:00			

HERSCHEL OBSERVATIONS

1-24-1

N

NGC MGC	SITE	SEEING	TRANS
CONST Hya	INSTR 25	EYEPIECE 17	POWER 168
RFGC1500	COMMENTS COOL FIELD		
DATE 4/4/11	PA = 10 → 4 THIN LNE		
TIME 9:15	PA=60°		

FLAT

NGC 4535	SITE	SEEING	TRANS
CONST	INSTR 25	EYEPIECE 17	POWER 168
	COMMENTS Lovely bar		
DATE 4/4/11			
TIME 9:30			

NGC IC 2553	SITE	SEEING	TRANS
CONST	INSTR 25	EYEPIECE 8	POWER 357
	COMMENTS Small blue disk		
DATE "	no CS		
TIME 9:45			

SPN

NGC 4603	SITE	SEEING	TRANS
CONST	INSTR 25	EYEPIECE 31	POWER 92
	COMMENTS IS THERE		
DATE "			
TIME 10:00			

SALP

SOUTHERN ~~ARP~~ CLUB OBSERVING LOG SHEET

NFGC 2937 RNO ESO #179 FLAT

~~AM~~ # ~~179~~ AKA 274-6001 DATE 4/5/11 TIME 13:00 UT

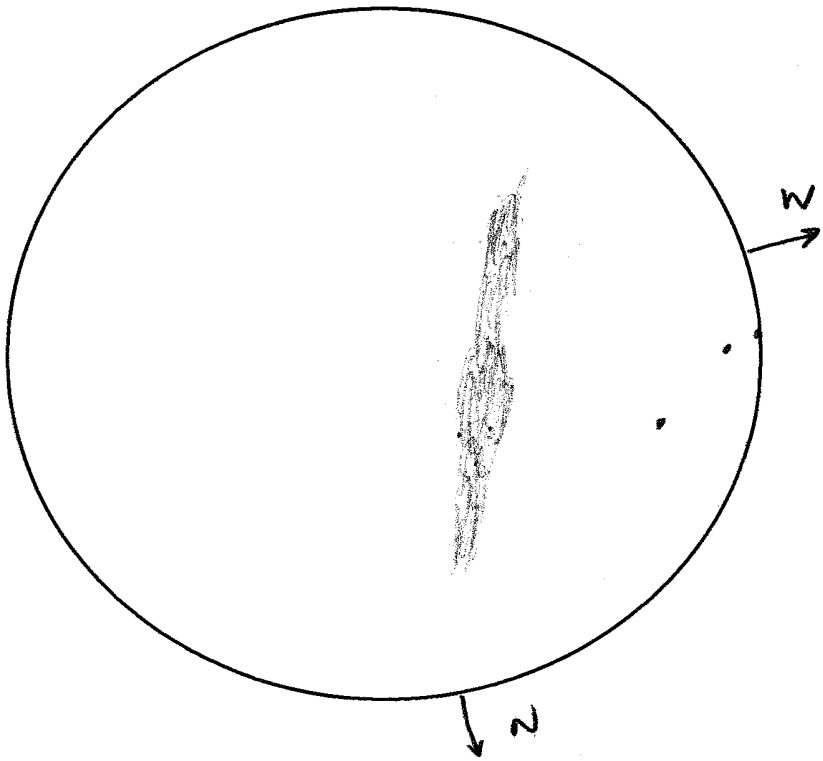
LOC. ACT (OZ) Okie-Tex _____ LAT. / LONG. ~~+36 / -96~~ -31 / +149

TRANS. (I) II III IV V SEEING (I) II III IV V METHOD Man (DSC) GOTO

INSTRUMENT XT-12 30" DOB APERTURE 12" 30" FL (mm) 1500 1900 f/4.5

EYEPIECE 13 mm E POWER 37 75 150 264

Lupus



PA = 15° Huge @ power 3 stars in it

~~SOUTHERN ARP~~ FLAT CLUB OBSERVING LOG SHEET

NGC 3238

~~ARP~~ # 189 AKA ESO 138-G014 DATE 4/5/11 TIME 13:15 UT

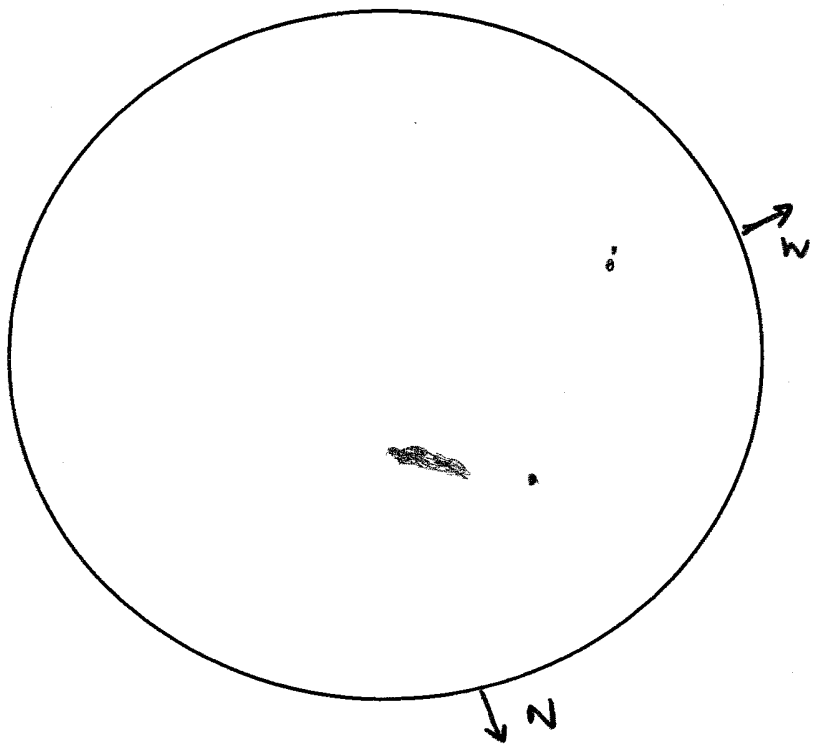
LOC. ACT OZ Okie-Tex _____ LAT. / LONG. ~~+36/-96~~ -31/+149

TRANS. I II III IV V SEEING I II III IV V METHOD Man DSC GOTO

INSTRUMENT XT-12 30" DOB APERTURE 12" 30" FL (mm) 1500 1900 f/4.5

EYEPIECE 13 mm E POWER 37 75 150 264

#189 Ara



PA=130° Knotty

FLAT GALAXIES CLUB OBSERVING LOG SHEET #46

OBJECT **RFGC** 1049 **AKA** ESO 121-G006

DATE 7/5/11 **TIME** 10:00 ~~CST CDT~~ AEST **LOC.** RMCC RANCH HOME 02

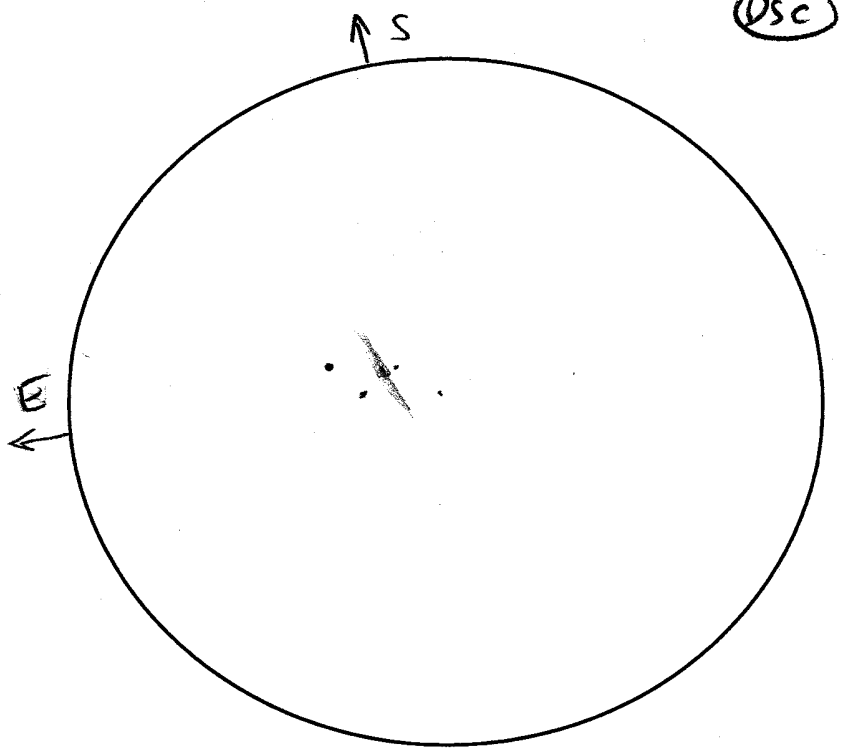
LAT. / LONG. ~~+36 / -96~~ -31/+149 **TRANS.** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" 30" DOB f/4.5

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 264 13mm E **FILTER**

POSITION ANGLE 160° **METHOD** Manual (Osc) GOTO

Pictor



Straight & small, w/ stellar nuc or star on it

FLAT GALAXIES CLUB OBSERVING LOG SHEET

#94

OBJECT **RFGC** 1876 **AKA** N3365

DATE 4/5/11 **TIME** 10:15 ~~CST CDT~~ AEST **LOC.** RMCC RANCH HOME 02

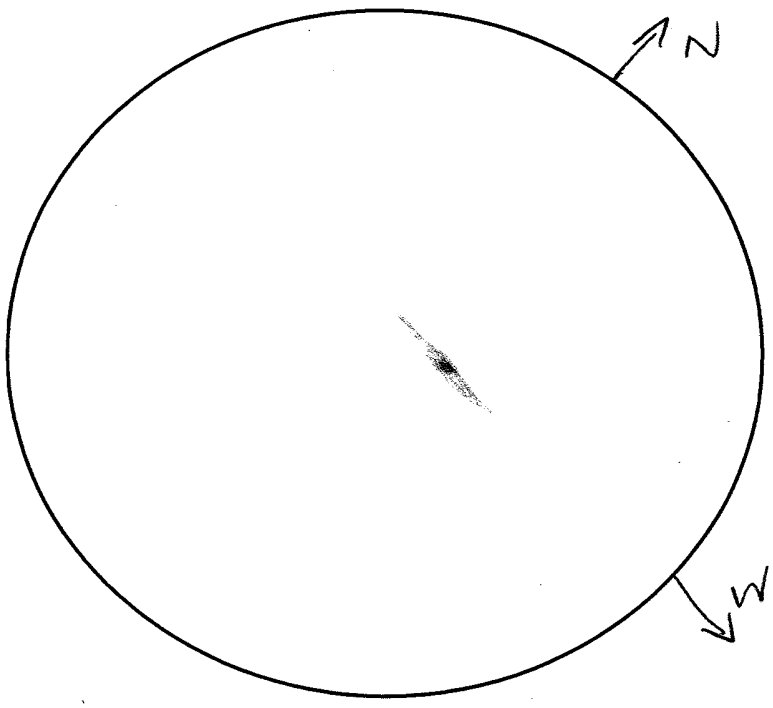
LAT. / LONG. ~~+36 / -96~~ -31/+149 **TRANS.** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT XT-12 ETX-125 30" DOB **APERTURE** 12" 5" 30 f/4.5

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 264 13E **FILTER**

POSITION ANGLE 80 **METHOD** Manual GOTO (DSC)

Sextans



Bewty, some curve to W side

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 1893 **AKA** #95 ESO 569-G014

DATE 4/5/11 **TIME** 21:35 ~~CST CDT~~ MEST **LOC.** RMCC RANCH HOME OZ

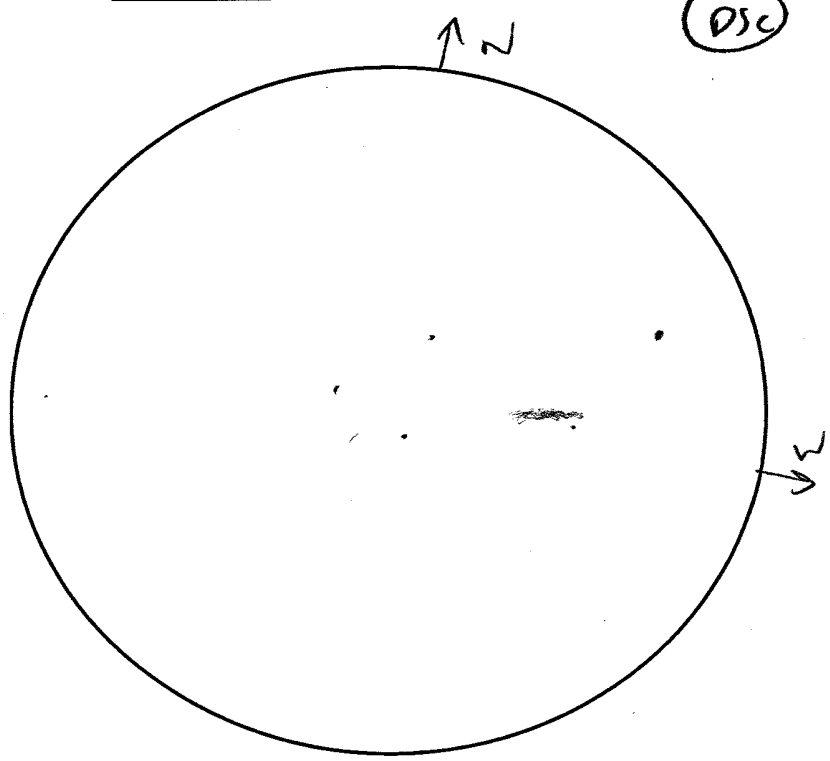
LAT. / LONG. ~~+36 / -96~~ -31/+149 **TRANS** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT XT-12 ETX-125 30" DOB **APERTURE** 12" 5" 30 / 17E f/4.5

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 202 **FILTER** ____

POSITION ANGLE 110 **METHOD** Manual (DSC) GOTO

Hydra



Small but very grainy - stellar nuc

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 2449 **AKA** #150 MCG-3-33-30

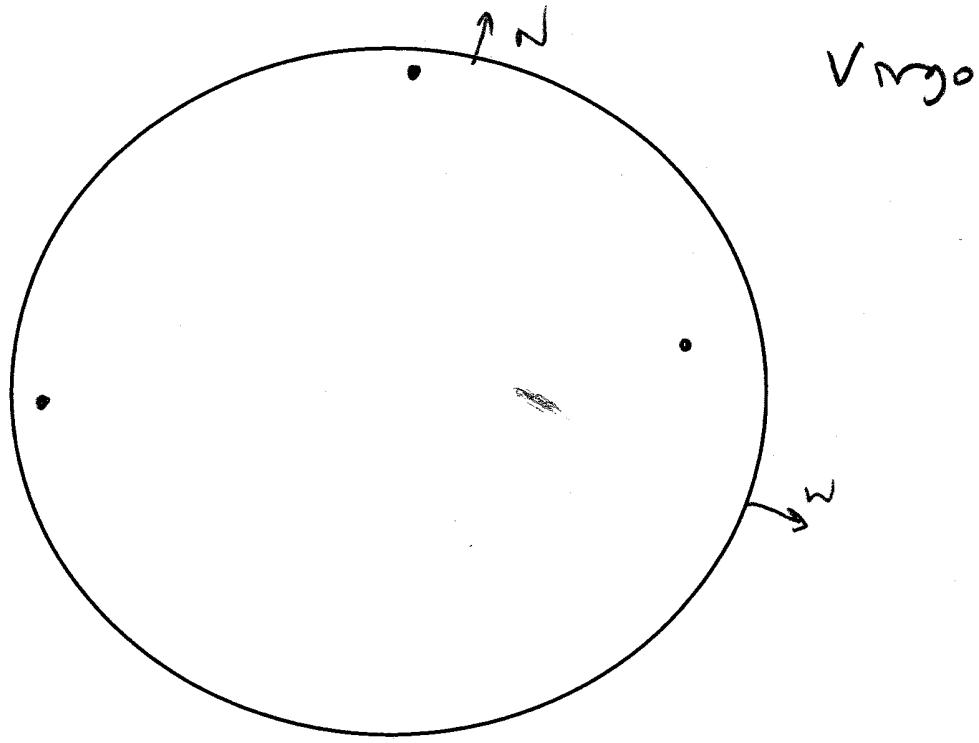
DATE 4/5/11 **TIME** 10:45 ~~CST CDT~~ AEST **LOC.** RMCC RANCH HOME OZ

LAT. / LONG. ~~+36/-96~~ -31/+149 **TRANS.** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT XT-12 ETX-125 30" DOB **APERTURE** 12" 5" 30 f/4.5

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 264 **FILTER** ____

POSITION ANGLE 90 **METHOD** Manual 13E GOTO (DSC)



shape

Dim

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 1224 **AKA** #54 ESO 257-G019

DATE 4/5/11 **TIME** 11:00 ~~CST CDT~~ AEST **LOC.** RMCC RANCH HOME 02

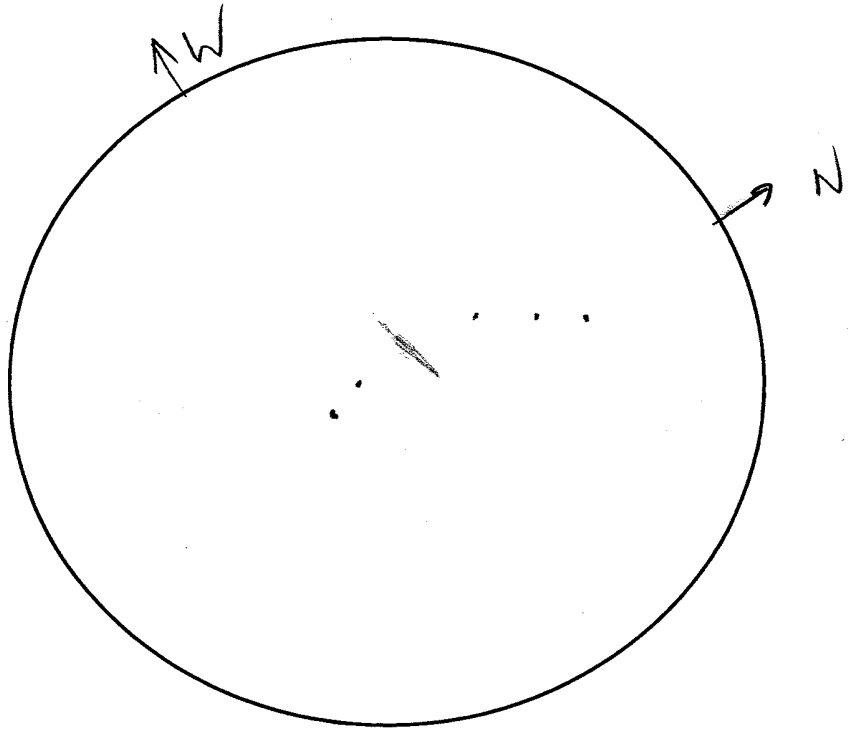
LAT. / LONG. +36 / ~~-96~~ -31/+149 **TRANS** 0 I II III IV V **SEEING** 0 I II III IV V

INSTRUMENT XT-12 ETX-125 30" OB **APERTURE** 12" 5" 30 f/4.5

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 202 17E **FILTER** ___

POSITION ANGLE 80 **METHOD** Manual GOTO (DSC)

Puppis



Thin sliver

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 1745 **AKA** ~~X~~ 89 ESO 263-G015

DATE 4/5/11 **TIME** 11:15 ~~CST~~ CDT AEST **LOC.** RMCC RANCH HOME 02

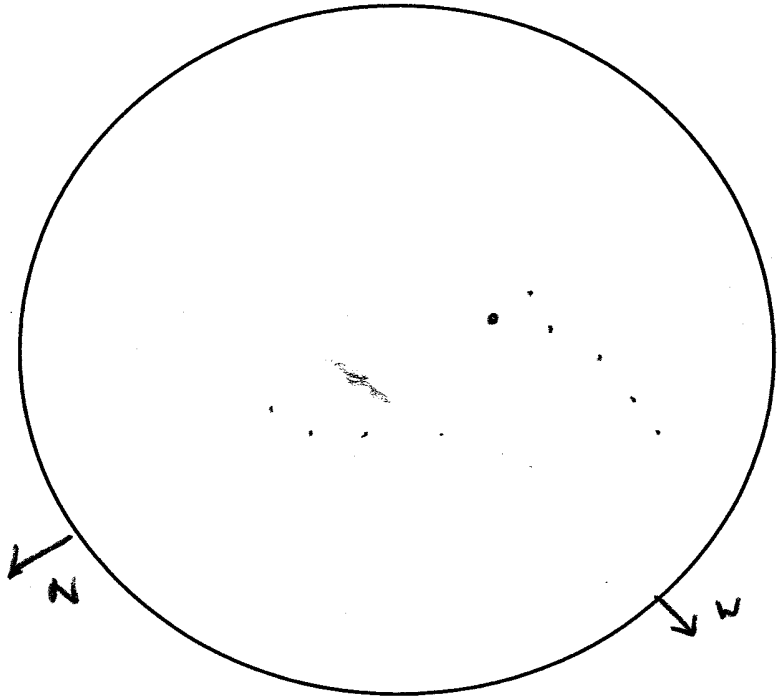
LAT. / LONG. ~~+36 / -96~~ -31 / +149 **TRANS.** (I) II III IV V **SEEING** (I) II III IV V

INSTRUMENT XT-12 ETX-125 30" DOB **APERTURE** 12" 5" 30 f/4.5

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 202 176 **FILTER** ___

POSITION ANGLE 60° **METHOD** Manual GOTO (DSC)

Vela



Small & dim

FLAT GALAXIES CLUB OBSERVING LOG SHEET

#162

OBJECT **RFGC** 2682 **AKA** IC4351

DATE 4/5/11 **TIME** 11:45 ~~CST CDT~~ AEST **LOC.** RMCC RANCH HOME OZ

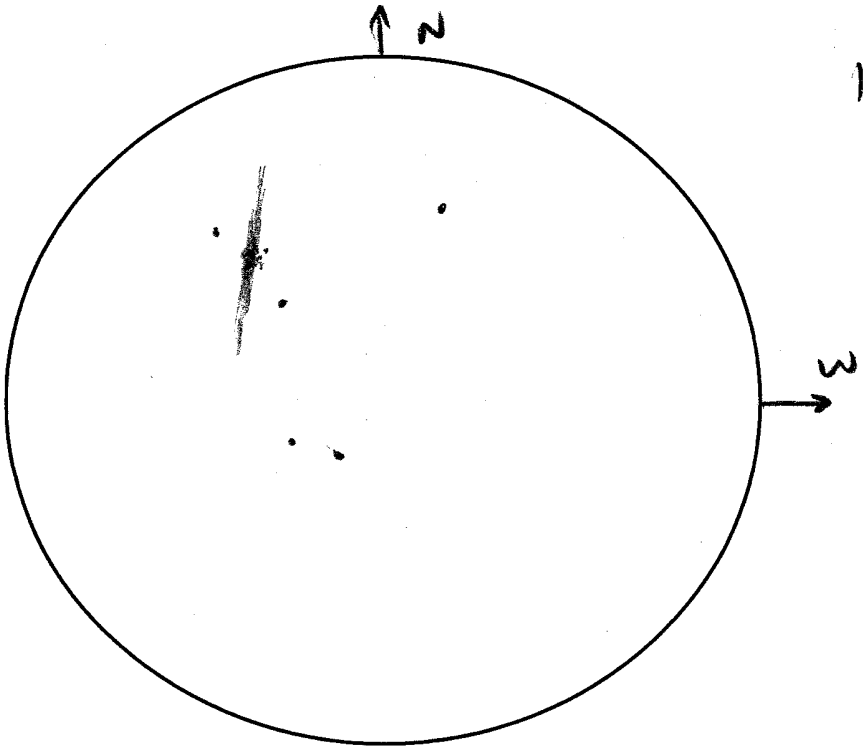
LAT. / LONG. +36 / ~~-96~~ -31/+149 **TRANS.** I II III IV V **SEEING** I II III IV V

INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" 30" f/4.5

FOCAL LENGTH (mm) 1500 1900 30 DOB **POWER** 37 75 150 264 **FILTER** ___

POSITION ANGLE 170 **METHOD** Manual GOTO DSC

Hydra



Very detailed nucleus - not so much in arms.

~~SOUTHERN ARP~~ FLAT CLUB OBSERVING LOG SHEET

#28 Also 13cm 1365 m 30°

~~AM~~ RFGC # 566 AKA ESO 115-G021 DATE 4/6/11 TIME 9:00 UT

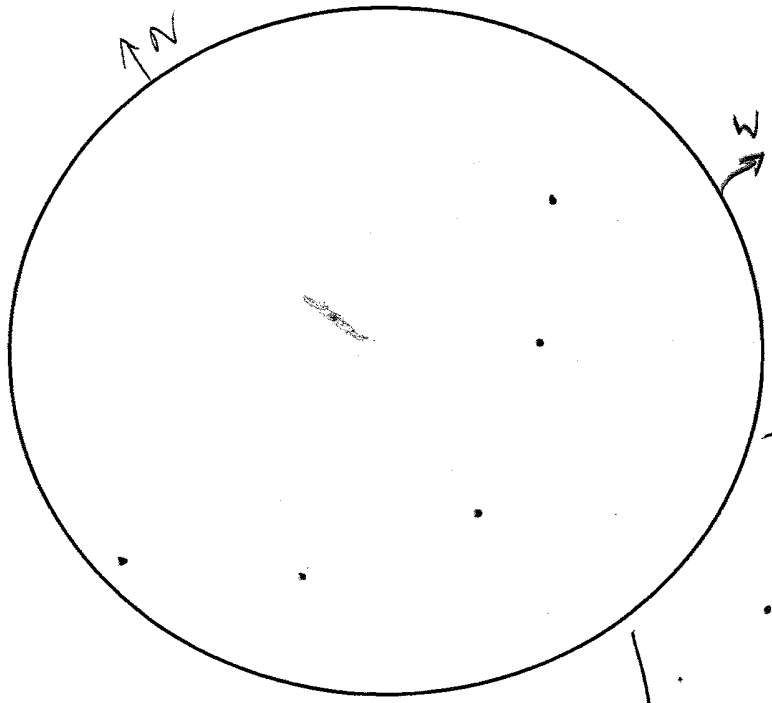
LOC. ACT OZ Okie-Tex _____ LAT. / LONG. ~~+36 / -96~~ -31 / 149

TRANS. I II III IV V SEEING I II III IV V METHOD Man DSC GOTO

INSTRUMENT XT-12 25"/208 APERTURE 12" 25" FL (mm) 1500 1900 ____ f/4.5

EYEPIECE 17 mm _____ POWER 37 75 150 168 17E

Horogotum



Also

RFGC #2603 MCG- 7-28-
#160 30' 13E
N 264X

W

Faint - some mottling but low

PA = 20°

PA = 100°

Centaurus

~~SOUTHERN ARP~~ FLAT CLUB OBSERVING LOG SHEET

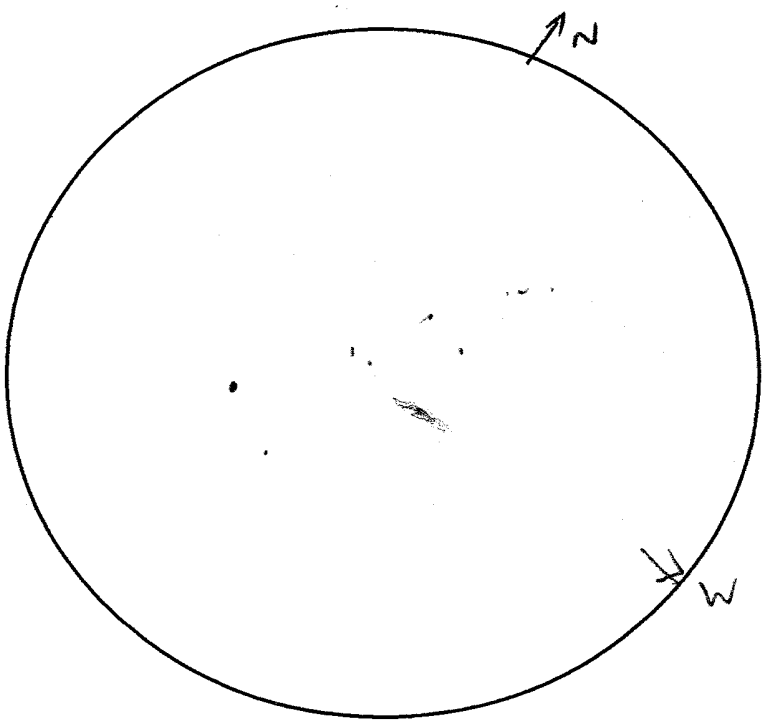
~~AM~~ RFGC # 1421 AKA ESO 563-G014 DATE 4/6/11 TIME 9:20 UT #66

LOC. ACT (02) Okie-Tex _____ LAT. / LONG. ~~+36 / -96~~ -31 / 149

TRANS. (I) II III IV V SEEING (I) II III IV V METHOD Man DSC GOTO

INSTRUMENT XT-12 25" DOB APERTURE 12" 25" FL (mm) 1500 1900 ____

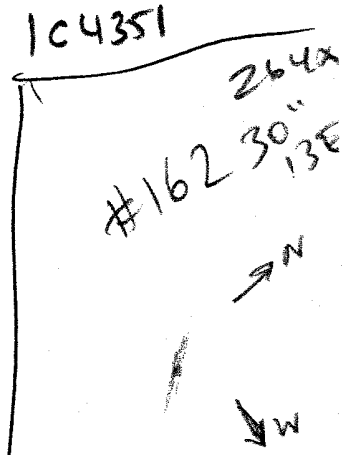
EYEPIECE 17 mm _____ POWER 37 75 150 168 17E PyXIS



ALSO

RFGC #2682

IC4351



Hydra PA=40°

4/6/11 9:45 UT

Dusty, small PA = 90°

S~~OUTHER~~FLAT N ARP CLUB OBSERVING LOG SHEET

~~AM~~ UGC # 1431 AKA ESO 563-6021 DATE 4/6/11 TIME 9:50 UT #68

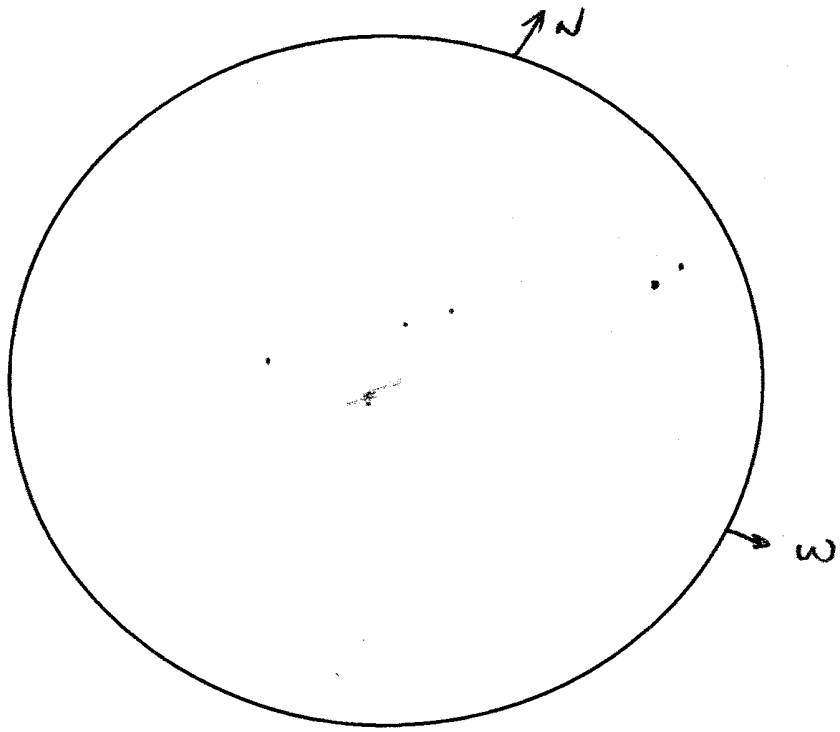
LOC. ACT (OZ) Okie-Tex _____ LAT. / LONG. ~~+36 / -96~~ -31 / 149

TRANS. (I) II III IV V SEEING (I) II III IV V METHOD Man DSC (GOTO) f/4.5

INSTRUMENT XT-12 25" Dob APERTURE 12" 25 FL (mm) 1500 1900 ____

EYEPIECE 13 mm _____ POWER 37 75 150 219

BE Pyxis



Star + stellar ave. PA = 140°

FLAT GALS
~~Planetary Nebula~~ Club
Observing Log

#72

Observer's name: B. YOUNG ESO 564-G027

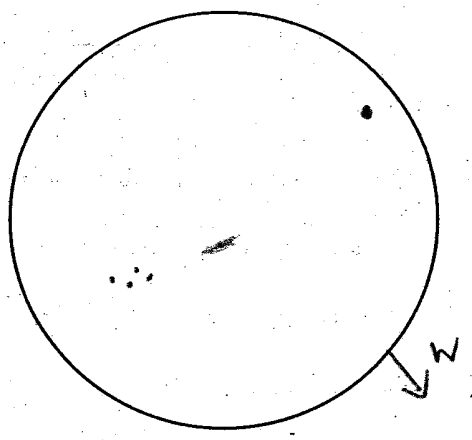
Object: RFGC #1504	Location: OZ
Date: 4/6/11	Time: 8:50 AEST
Seeing: I	Transparency: I
Darkness of the site: B+1	Moon phase: —
Aperture and focal ratio: 25"	Magnification(s) used: 17E 168X
Device-aided? Y	Color(s) seen: —
Filters used: NO	Is filter required to detect the PN? —
Is the central star visible? —	Direct or averted vision? —

Hydra

How does the ~~planetary~~ respond to different magnifications?

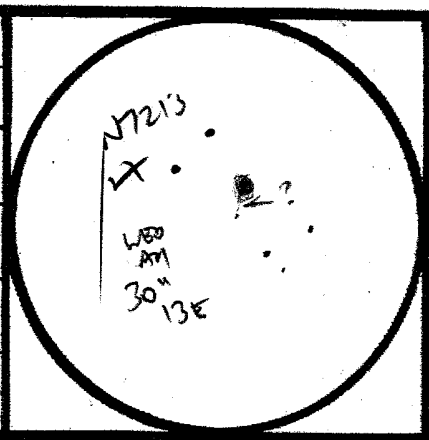
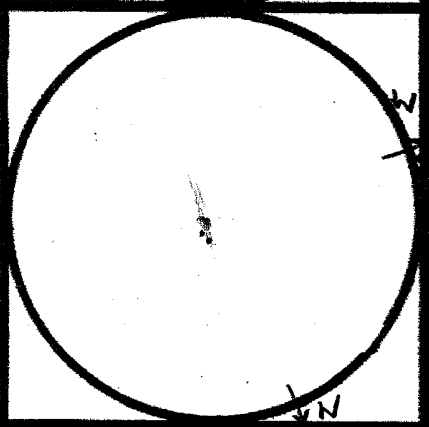
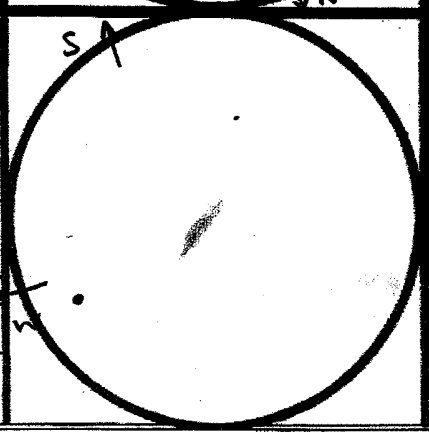
Description: (Sketch is optional unless a negative observation.)

PA=150°



N5789
12.5mm
30"
274X

HERSCHEL OBSERVATIONS

NGC 7213		SITE 02	SEEING I	TRANS I	
CONST		INSTR 30"	EYEPIECE 13E	POWER 264	
		COMMENTS			
		Jet? What is that?			SAM
DATE 4/6/11					
TIME 5:00					
NGC IC 1459		SITE	SEEING	TRANS	
CONST		INSTR	EYEPIECE	POWER	
		COMMENTS			
		Lovely little oval,			SARP
		with large nuc.			
DATE 11					
TIME 5:15					
NGC ESO		SITE 02	SEEING I	TRANS I	
CONST Ant		INSTR 25"	EYEPIECE 17E	POWER 168	FLAT
435-6019		COMMENTS			#81
		RFGC #1678			
		← NOT MUCH ON W SIDE			
DATE 4/6/11		PA = 5°			
TIME 8:00					
NGC ESO		SITE 11	SEEING 11	TRANS	
CONST Ara		INSTR 25"	EYEPIECE 17E	POWER 168	FLAT
138-6014		COMMENTS			#189
		RFGC #3238			
		← BROADER PA 130°			
DATE 4/6/11					
TIME 8:30					

FLAT GALAXIES

HERSCHEL OBSERVATIONS

NGC U 2082	SITE HULA	SEEING III	TRANS II
CONST Ari	INSTR XT-12	EYEPIECE 10	POWER 150
RFGC 558	COMMENTS "SPREADS" BETWEEN 2 LINES OF 3 STARS. REDRAWN - AT FIRST COULDN'T TRUST IT WAS ORIENTED AS SHOWN BUT SEEMED TOO COMMON - BUT IT IS AT PA ~ 135°		
DATE 9/5/11			
TIME 1:00 AM			

NGC U 12423	SITE "	SEEING	TRANS
CONST Psc	INSTR "	EYEPIECE "	POWER "
RFGC 4081	COMMENTS SEEMS LESS FLAT TO SOUTH SIDE PA = 140° STARS AT EACH END OTHER GALAXY = NT518		
DATE "			
TIME 1:15 AM			

NEW TO ME ?

NGC 973	SITE "	SEEING	TRANS
CONST Tri	INSTR "	EYEPIECE "	POWER
RFGC 553	COMMENTS WAVY - SEEMS TO POINT TO PA 210° ON WEST SIDE PA OVERALL = 45°		
DATE "			
TIME 1:45 AM			

NGC U 1924	SITE "	SEEING	TRANS
CONST Tri	INSTR "	EYEPIECE "	POWER
RFGC 528	COMMENTS 5 on visibility scale (hints with REAV only) PA ~ 10° - SEEMS MATCH FOR PICTURE AT SKYFACTORY.ORG WITH THE 3 STARS		
DATE "			
TIME 2:30 AM			

HERSCHEL OBSERVATIONS

FLAT GALAXIES

UGC

NGC 11093	SITE Okre TCX	SEEING III	TRANS II
CONST OPH	INSTR XT-12	EYEPIECE 10	POWER 150
IRFGC 3324	COMMENTS V. FLAT NO NUC - just W of fld star. Extends ~5' w/ REAV - needle thin		
DATE 9/26/11	PA = 10°		
TIME 9:20			

NGC 5965/	SITE //	SEEING II	TRANS II
CONST Dra 5963	INSTR //	EYEPIECE //	POWER //
IRFGC 2994	COMMENTS f B nuc, needle-like w/ some curve to it (2 ends of rotated (it's a FS) AV=1 but use to get extension. Other looks round - no detail AV=1		
N			
DATE 9/27/11			
TIME 3:20 UT			

5965 FLAT PA~150°

NGC 5969/71	SITE //	SEEING //	TRANS //
CONST	INSTR //	EYEPIECE //	POWER //
	COMMENTS ← 5969 small, round-ellip? AV=2 ← 5971 larger, pale, no nuc. AV=1		
DATE 9/27/11			
TIME 3:30 UT			

NOT FLAT

NGC UGC 711	SITE //	SEEING II	TRANS III
CONST	INSTR //	EYEPIECE //	POWER //
	COMMENTS AV=5 Very difficult PA = 30° REPORTED AS 150° MAY BE A MISS		
DATE 9/27/11			
TIME 4:00 UT			

X

HERSCHEL OBSERVATIONS

NGC 1084	SITE Olive-Tex	SEEING II	TRANS II
CONST	INSTR X+-12	EYEPIECE 2X42	POWER 75x
	COMMENTS Small elliptical		
DATE 9/27/11			
TIME 9:30 UT			

NGC 1110/1108	SITE "	SEEING "	TRANS "
CONST Eri	INSTR "	EYEPIECE 10	POWER 150x
IFGC 600	COMMENTS PA ~ 180°		
	More seen on W side (fs?)		FLAT
DATE 9/27/11	1108 small, oval & dim		
TIME 9:45 UT	Matches photo rel. to fs & 1108		

NGC 2424	SITE "	SEEING "	TRANS "
CONST Lyn	INSTR "	EYEPIECE "	POWER "
IFGC 1244	COMMENTS		FLAT
	~~After~~ 2419 - fairly		
DATE 9/27/11	easy, small		
TIME 10:30 UT	PA = 70°		

NGC ~~—~~	SITE "	SEEING "	TRANS "
CONST	INSTR "	EYEPIECE 2X42	POWER 75x
	COMMENTS <A, >B ≈ Nice but low		
DATE 9/27/11	Comet Hill		
TIME 11:05 UT			

A

FLAT

HERSCHEL OBSERVATIONS

NGC 5777	SITE Okie-Tex	SEEING II	TRANS II
CONST Dra	INSTR XT-12	EYEPIECE 10	POWER 150
RFGC 2878	COMMENTS "Comma" on N side - influenced by FS? Nice mottly center probably and fainter on S side though fairly very thin PA=150°		
DATE 9/28/11			
TIME 2:30 UT			

NGC 6822	SITE "	SEEING "	TRANS "
CONST Sgr	INSTR "	EYEPIECE 2X42	POWER 75X
	COMMENTS FULL "COMMA" SEEN		
DATE 9/28/11			
TIME 2:45 UT			

NOT FLAT

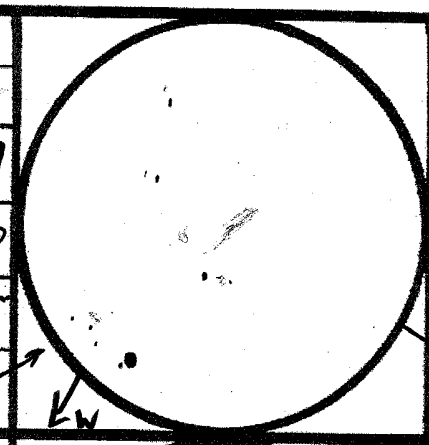
~~NGC~~ V2082	SITE "	SEEING "	TRANS "
CONST Ari	INSTR "	EYEPIECE 10	POWER 150X
RFGC 558	COMMENTS AV=3 or 4 Wow to have to discern PA=140° MATCHES PHOTO		
DATE 9/28/11			
TIME 3:15 UT			

~~NGC~~ V1999	SITE	SEEING	TRANS
CONST Ari	INSTR	EYEPIECE	POWER
RFGC 547	COMMENTS ALSO ON CHART 130 PA=110° MATCHES PHOTO IF Δ STARS WERE REDDISH		
DATE 9/28/11			
TIME 3:30 UT			

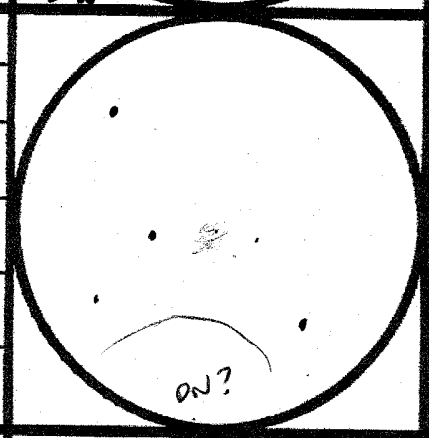
HERSCHEL OBSERVATIONS

NGC 2820	SITE OKIE-TEX	SEEING II	TRANS II
CONST UMa	INSTR XT-12	EYEPIECE 10	POWER 150
RFGC 1537	COMMENTS Aux Image? No		
IC2158? AV=5	←2814?		
DATE 9/28/11 round amorph	PA ~70° ✓		
TIME 9:30 UT N2805 AV=4	N 2814 likely, IC2458 not as likely		

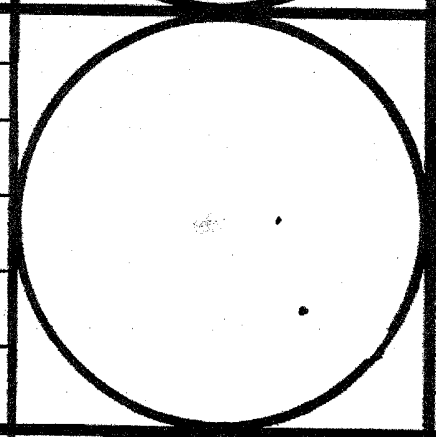
FLAT



~~NGC~~ IC359	SITE ↓	SEEING II	TRANS I-
CONST Tau	INSTR ↓	EYEPIECE 2x42	POWER 75X
→	COMMENTS Small Glow w/ stars (~3) on it.		
DATE 9/29/11	DN Below it? → W		
TIME 4:00 UT			

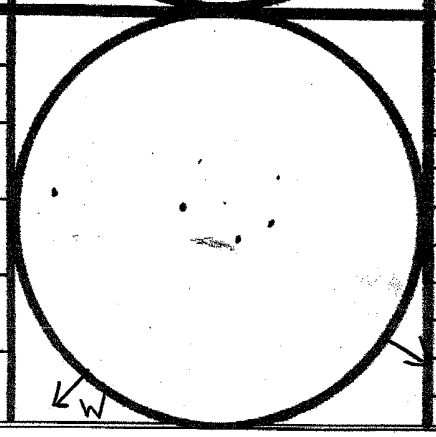


~~NGC~~ IC 360	SITE ↓	SEEING "	TRANS "
CONST Tau	INSTR ↓	EYEPIECE 10x42	POWER 150x
	COMMENTS Small amorphous glow AV=4		
DATE 9/29/11			
TIME 4:15 UT			



NGC 1145	SITE ↓	SEEING ↓	TRANS
CONST Eri	INSTR ↓	EYEPIECE	POWER
RFGC 621	COMMENTS Not too hard, some		
	Mottling. PA= ~~30°~~ 60°		
DATE 9/29/11	N Matches photo exactly w/ fr - mv+re measured		
TIME 4:30 UT			

FLAT



N/W wrong @ EP.

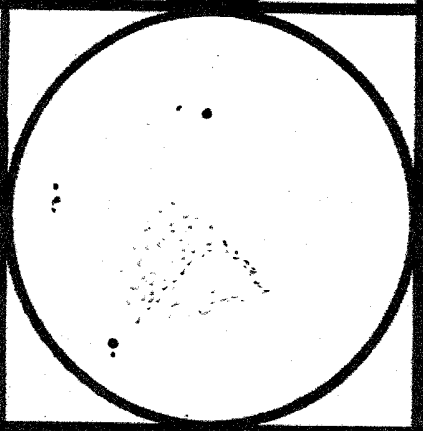
HERSCHEL OBSERVATIONS

NGC 6946
CONST
DATE 9/29/11
TIME 6:45UT

SITE Okie-Tex
SEEING II
TRANS II
INSTR XT-12
EYEPIECE 10
POWER 150X

COMMENTS
Nice shrimp-like shape to it - some resolution

NGC 6939
CONST
DATE 9/29/11
TIME 6:50UT

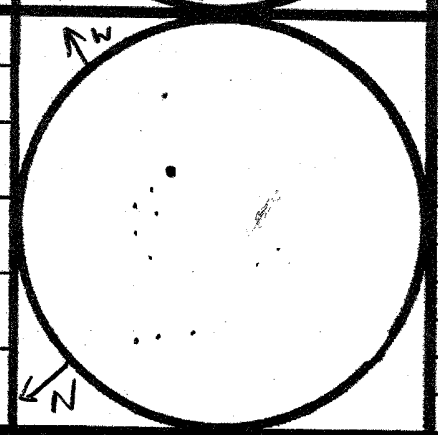


SITE ↓
SEEING ↓
TRANS
INSTR ↓
EYEPIECE ↓
POWER 150X

COMMENTS
Looks like a Δ with stars piled on one side like snow on a roof.

SQT

NGC UGC 260
CONST Psc
RFGC 102
DATE 9/29/11
TIME 7:20UT

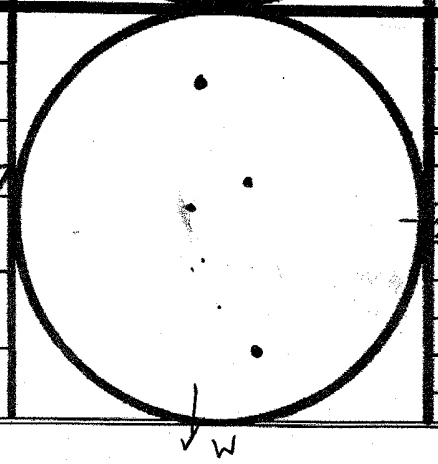


SITE ↓
SEEING ↓
TRANS
INSTR ↓
EYEPIECE ↓
POWER 150X

FLAT

COMMENTS
Fairly easy - but use AV
PA ~20° (listed as 30°)
Some "flare" on S side - not seen in photos

NGC U5459
CONST UMa
RFGC 1727
DATE 9/29/11
TIME 7:40UT



SITE ↓
SEEING ↓
TRANS
INSTR ↓
EYEPIECE ↓
POWER 150X

FLAT

COMMENTS
PA ~ 100°
Glow on a star - not much detail
listed as PA 130° - matches photo and fs

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 677 **AKA** N 1247

DATE 10/5/10 **TIME** 4:00 CST CDT **LOC.** RMCC RANCH HOME O-Tex

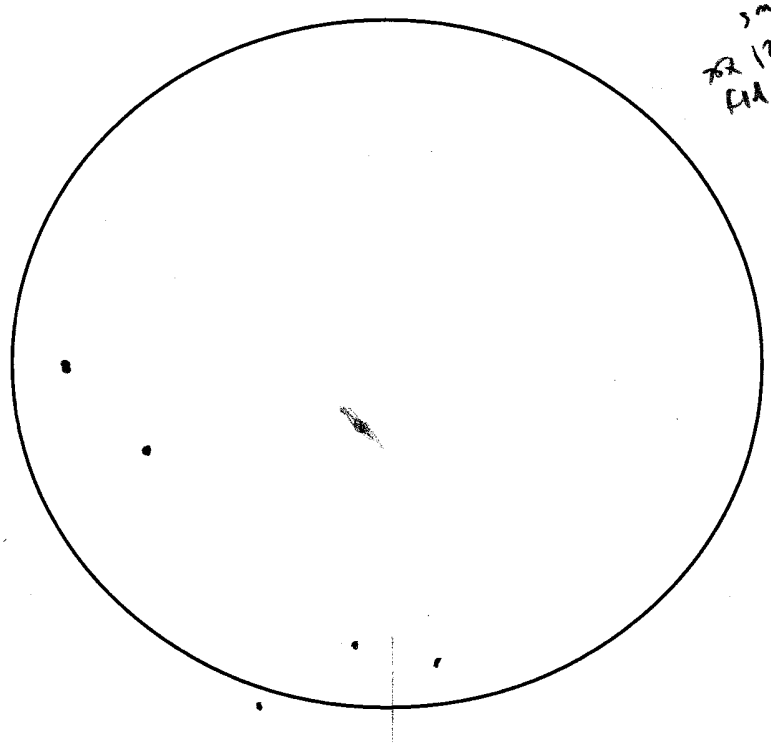
LAT. / LONG. +36 / -96 _____ **TRANS.** I II III IV V **SEEING** I II III IV V

INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" _____

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 ___ **FILTER** No

POSITION ANGLE 50° **METHOD** Manual GOTO

dim small
1238
FA



Very flat w/ distinct nucleus halo
Some mottling

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 895 **AKA** U3137

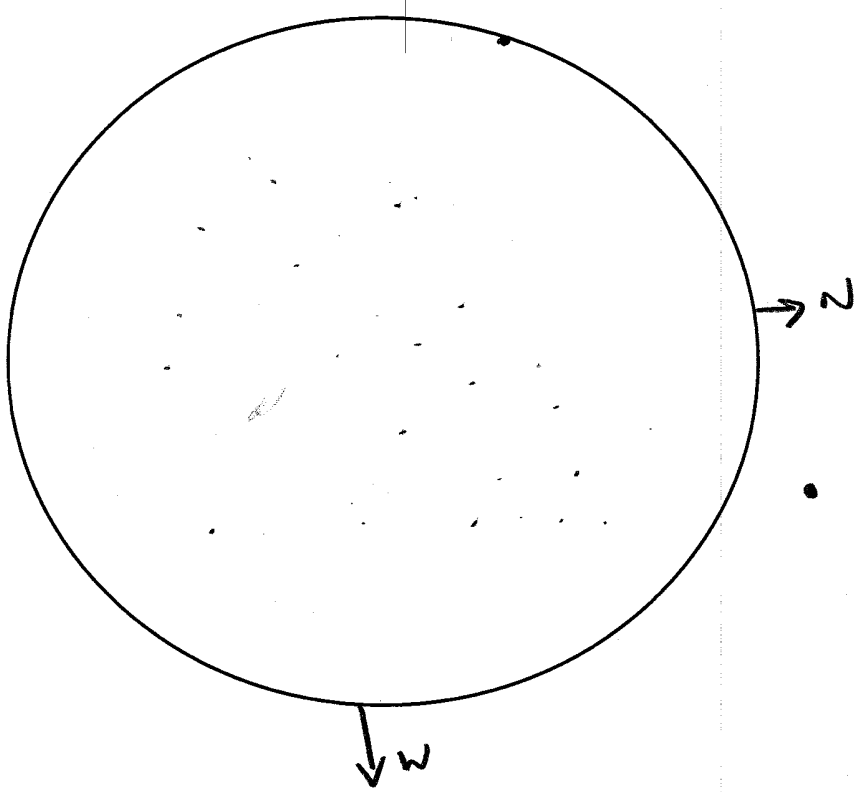
DATE 10/8/10 **TIME** 1:00 CST CDT **LOC.** RMCC RANCH HOME O-Tex

LAT. / LONG. +36 / -96 _____ **TRANS.** I (II) III IV V **SEEING** (II) III IV V

INSTRUMENT (XT-12) ETX-125 **APERTURE** (12") 5" _____

FOCAL LENGTH (mm) (1500) 1900 **POWER** 37 75 (150) ___ **FILTER** ___

POSITION ANGLE 45 **METHOD** (Manual) GOTO



AV = 5

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 2774 **AKA** U9242

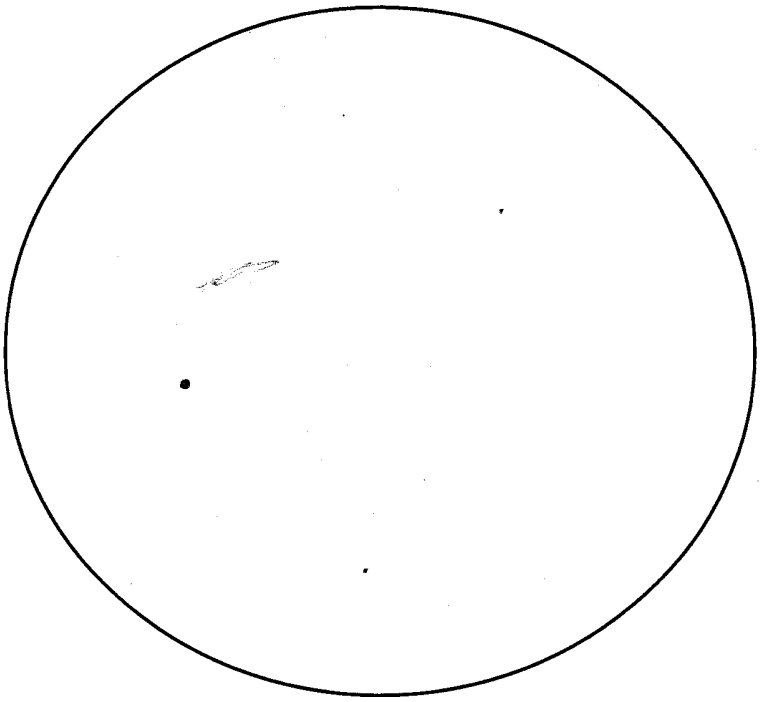
DATE 10/7/10 **TIME** 9:40 CST CDT **LOC.** RMCC RANCH HOME OTex

LAT. / LONG. +36 / -96 _____ **TRANS.** I II III IV V **SEEING** I II III IV V

INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" _____

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 ___ **FILTER** ___

POSITION ANGLE 150°? **METHOD** Manual GOTO



Av = 6

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 3324 **AKA** U 11093

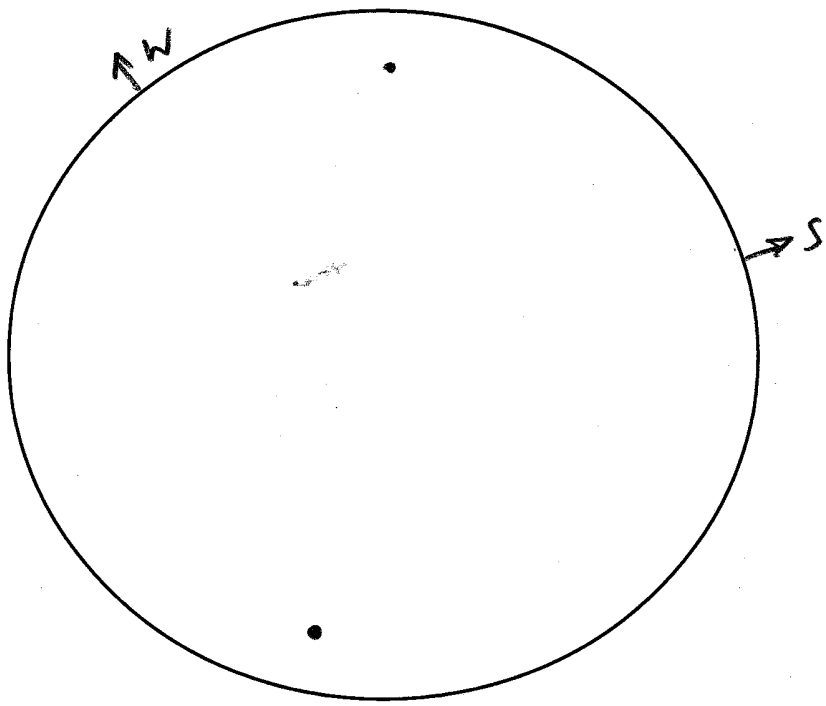
DATE 10/5/10 **TIME** 10:06 CST CDT **LOC.** RMCC RANCH HOME O-Tex

LAT. / LONG. +36 / -96 _____ **TRANS.** I II III IV V **SEEING** I II III IV V

INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" _____

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 ___ **FILTER** ___

POSITION ANGLE 10 **METHOD** Manual GOTO



Almost overwhelmed by small fs

Confirm @ μ Scl

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 4177 **AKA** UGC 4442

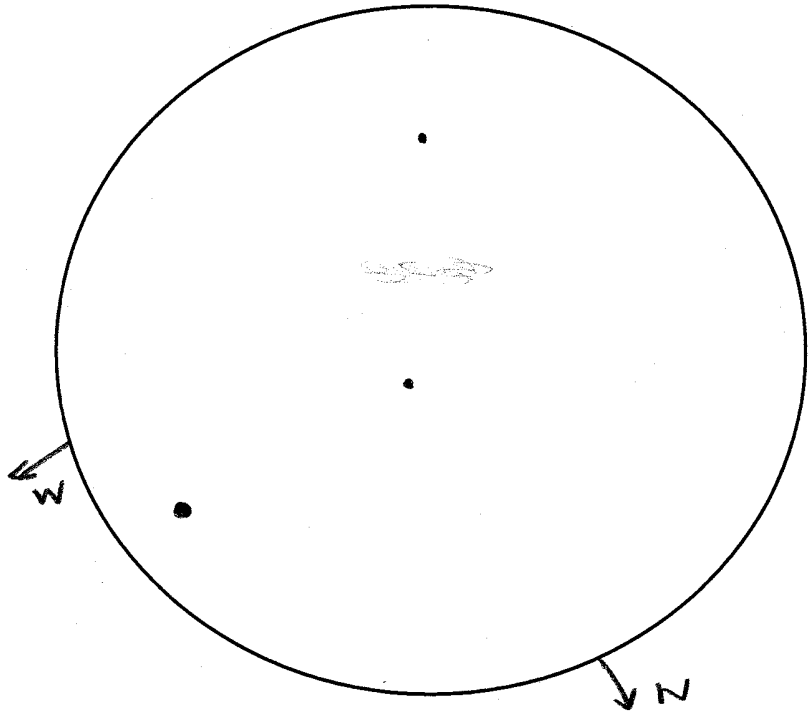
DATE 10/6/10 **TIME** 12:06 CST CDT **LOC.** RMCC RANCH HOME OT

LAT. / LONG. +36 / -96 _____ **TRANS.** I II III IV V **SEEING** I II III IV V

INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" _____

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 ___ **FILTER** ___

POSITION ANGLE 70 **METHOD** Manual GOTO



FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 640 **AKA** N 1163

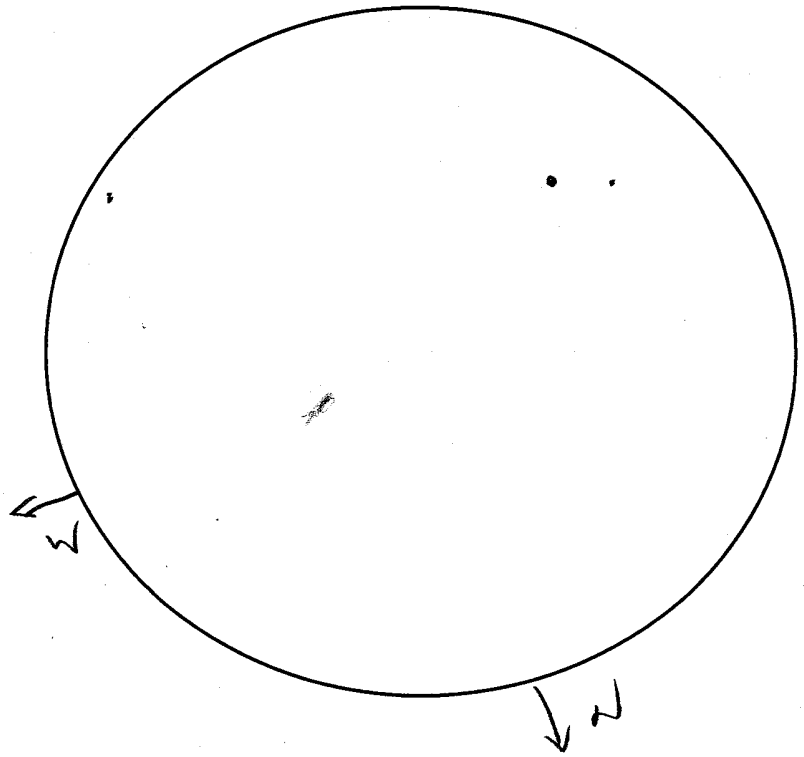
DATE 10/6/10 **TIME** 2:00 CST CDT **LOC.** RMCC RANCH HOME O-Tex

LAT. / LONG. +36 / -96 _____ **TRANS.** I II III IV V **SEEING** I II III IV V

INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" _____

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 ___ **FILTER** ___

POSITION ANGLE 120° **METHOD** Manual GOTO



EOV!

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 766 **AKA** MCG 2-10-9

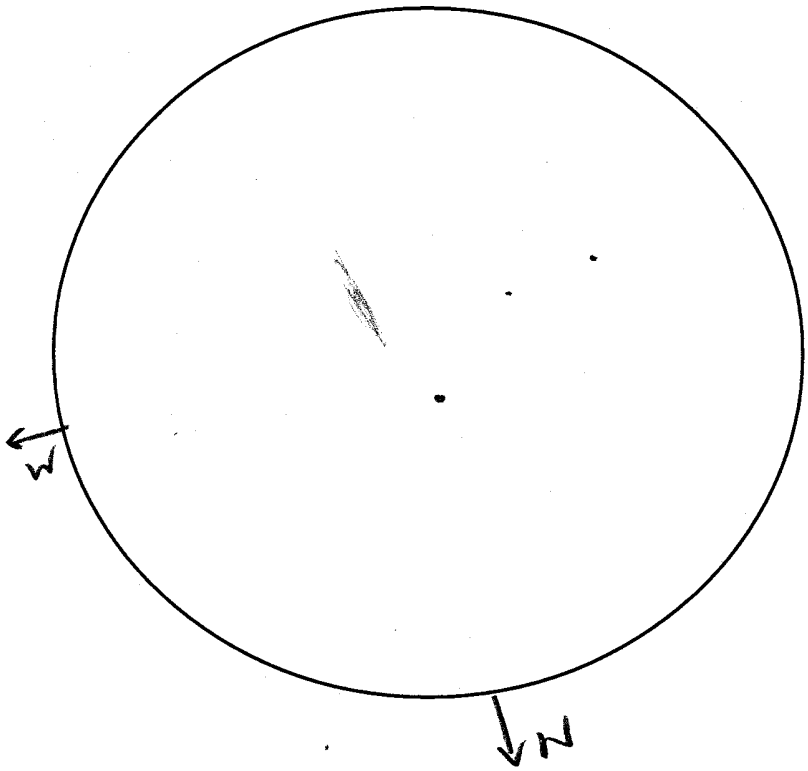
DATE 10/7/10 **TIME** 11:00 CST CDT **LOC.** RMCC RANCH HOME O-Tex

LAT. / LONG. +36 / -96 _____ **TRANS.** I II III IV V **SEEING** I II III IV V

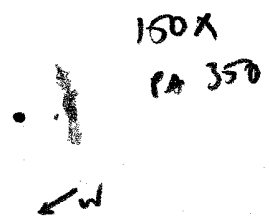
INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" _____

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 ___ **FILTER** ___

POSITION ANGLE 10 **METHOD** Manual GOTO



A DIM MIRROR OF N1421 1° TO S



FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 1340 **AKA** IC 2233

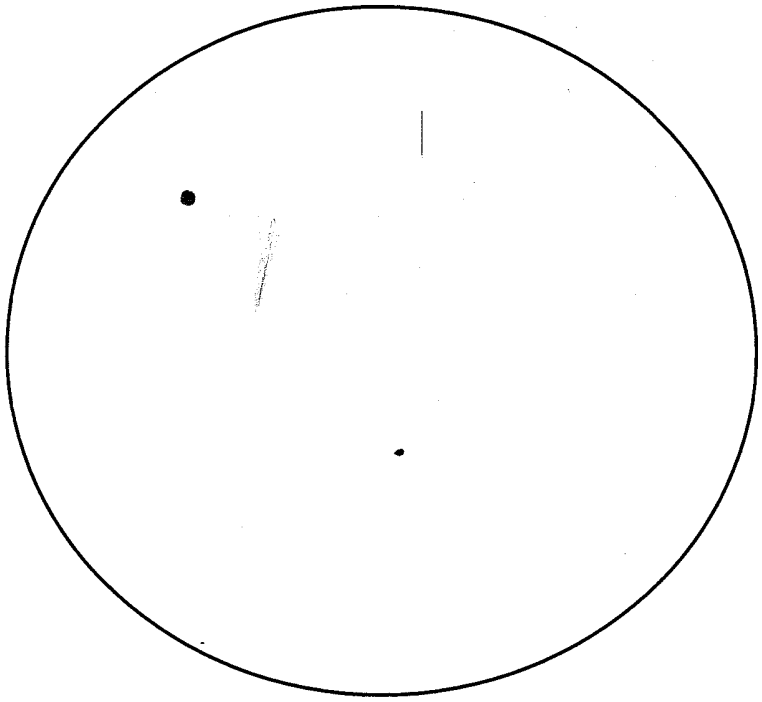
DATE 10/7/10 **TIME** 11:15 CST (CDT) **LOC.** RMCC RANCH HOME Olie-Tex

LAT. / LONG. +36 / -96 _____ **TRANS.** I (II) III IV V **SEEING** (II) III IV V

INSTRUMENT (XT-12) ETX-125 **APERTURE** (12") 5" _____

FOCAL LENGTH (mm) (1500) 1900 **POWER** 37 75 (150) ___ **FILTER** ___

POSITION ANGLE 150? **METHOD** Manual GOTO



AW 5

per N of

FLAT GALAXIES CLUB OBSERVING LOG SHEET

OBJECT **RFGC** 318 **AKA** N 522

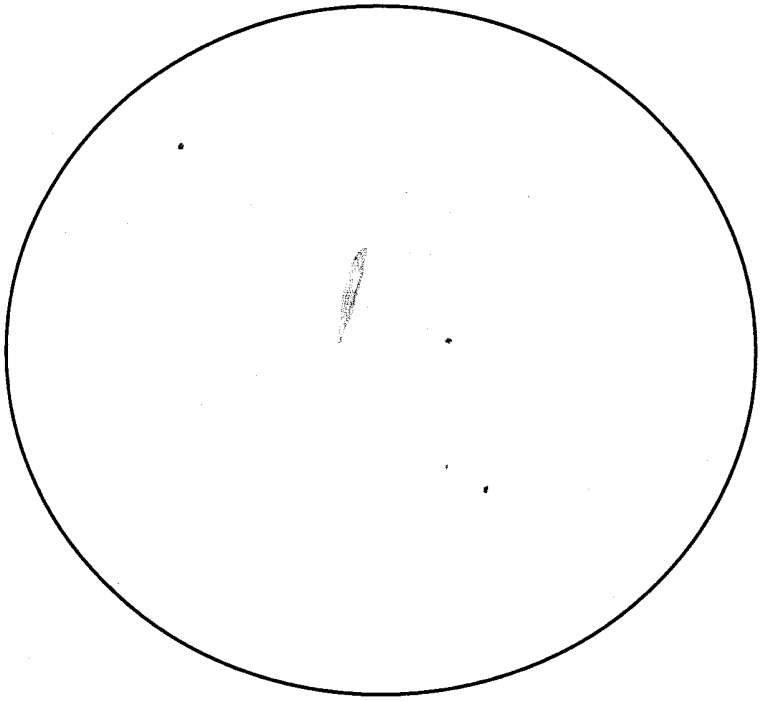
DATE 10/7/10 **TIME** 5:30 CST CDT **LOC.** RMCC RANCH HOME Olie-Tex

LAT. / LONG. +36 / -96 _____ **TRANS.** I II III IV V **SEEING** I II III IV V

INSTRUMENT XT-12 ETX-125 **APERTURE** 12" 5" _____

FOCAL LENGTH (mm) 1500 1900 **POWER** 37 75 150 ___ **FILTER** ___

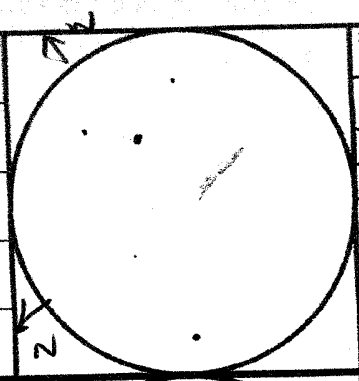
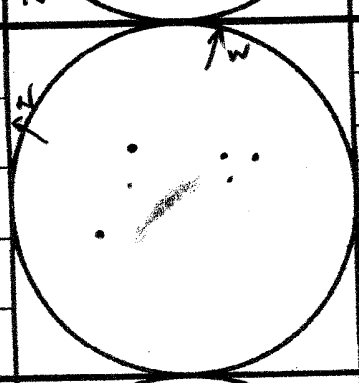
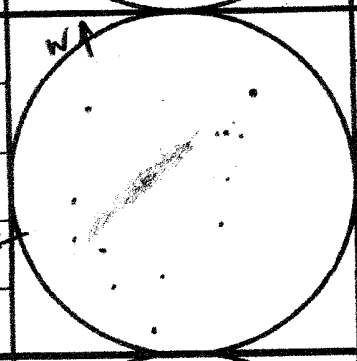
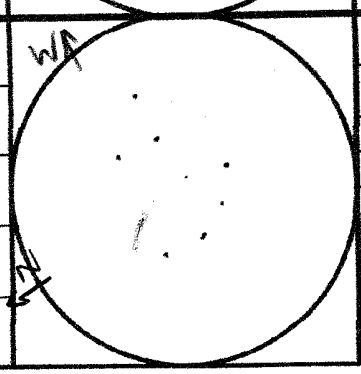
POSITION ANGLE 70 **METHOD** Manual GOTO



FANT!

GALAXY GROUP AND CLUSTER OBSERVATIONS

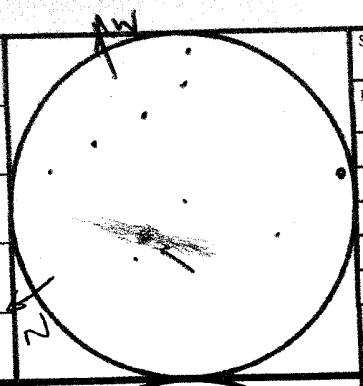
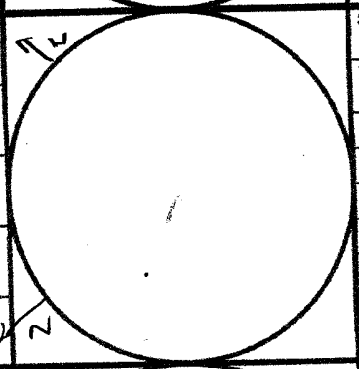
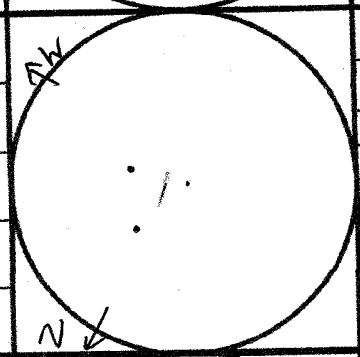
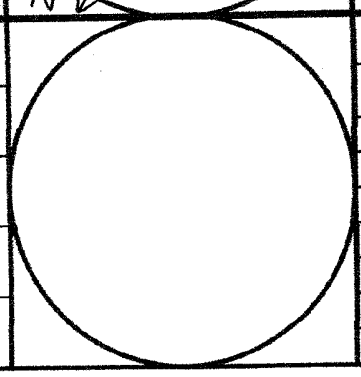
FLAT GALS

NGC 3501		SITE MCC	SEEING II / TRANS II
CONST RFGC 1945		INSTR XT-12	EYEPIECE 10 / POWER 150
No. OF GALAXIES (AV) 1		COMMENTS Some hints of mottling along axis PA=5° FLAT GAL CLUB	
DATE 6/4/10			
TIME 10:45			
NGC 4157		SITE "	SEEING " / TRANS "
CONST RFGC 2212		INSTR "	EYEPIECE " / POWER
No. OF GALAXIES (AV)		COMMENTS Seems "disk" like w/ convex nucleus PA=70°	
DATE 6/5/10			
TIME 12:00			
NGC 4244		SITE "	SEEING " / TRANS "
CONST RFGC 2245		INSTR "	EYEPIECE " / POWER
No. OF GALAXIES (AV)		COMMENTS Compact nucleus — very large and easy PA=20°	
DATE 6/5/10			
TIME 12:15			
NGC 4197		SITE "	SEEING " / TRANS "
CONST RFGC 2227		INSTR "	EYEPIECE " / POWER
No. OF GALAXIES (AV)		COMMENTS Some wisp on S end but difficult to see PA=40°	
DATE 6/5/10			
TIME 12:30			

The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is further explained on pages 137-138.

GALAXY GROUP AND CLUSTER OBSERVATIONS

FLAT GALS

NGC: 4565		SITE: RMCC	SEEING: II / TRANS: II
CONST: RFGC 2335		INSTR: XT-12	EYEPIECE: 10 / POWER: 150
No. OF GALAXIES (AV):		COMMENTS: The flat galaxy w/ obvious dust lane @ ← PA=120° & compact nucleus	
DATE: 6/5/10			
TIME: 1:00			
NGC: 3365		SITE: RMCC	SEEING: I – / TRANS: III
CONST: RFGC 1876		INSTR: XT-12	EYEPIECE: 10 / POWER: 150
No. OF GALAXIES (AV):		COMMENTS: So dim! No details PA=30°	
DATE: 6/6/10			
TIME: 10:15			
NGC: 4330		SITE: //	SEEING: // / TRANS: //
CONST: RFGC 2270		INSTR: //	EYEPIECE: // / POWER: //
No. OF GALAXIES (AV):		COMMENTS: Dim, no detail PA=10°	
DATE: 6/6/10			
TIME: 10:30			
NGC:		SITE:	SEEING: / TRANS:
CONST:		INSTR:	EYEPIECE: / POWER:
No. OF GALAXIES (AV):		COMMENTS:	
DATE:			
TIME:			

The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is further explained on pages 137-138.

FLAT GALAXY ~~GROUP AND CLUSTER~~ OBSERVATIONS

NGC: 5496	SITE: RMCC	SEEING: II	TRANS: II
CONST: RFGC 2731	INSTR: XT-12	EYEPIECE: 10	POWER: 150X
No. OF GALAXIES (AV):	COMMENTS: Very dim, very small, no real details, empty field, PA=175°		
DATE: 6/13/10			
TIME: 1:15 AM			

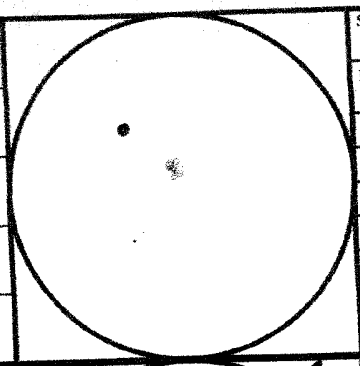
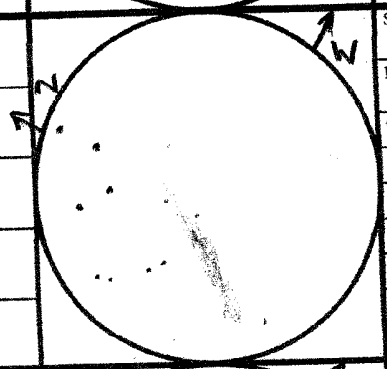
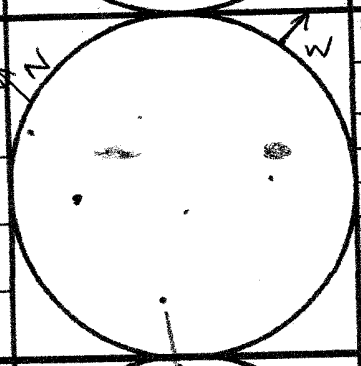
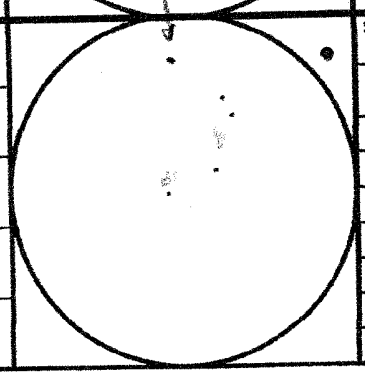
NGC: 5023	SITE: "	SEEING: II	TRANS: II
CONST: RFGC 2495	INSTR: "	EYEPIECE: "	POWER: "
No. OF GALAXIES (AV):	COMMENTS: Slight "hump" in middle. Excellent FS to show way to it. PA=20°		
DATE: 6/13/10			
TIME: 1:40 AM			

NGC	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
No. OF GALAXIES (AV)	COMMENTS		
DATE			
TIME			

NGC	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
No. OF GALAXIES (AV)	COMMENTS		
DATE			
TIME			

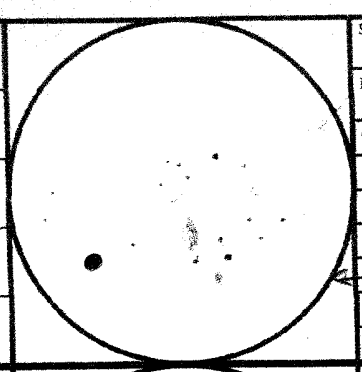
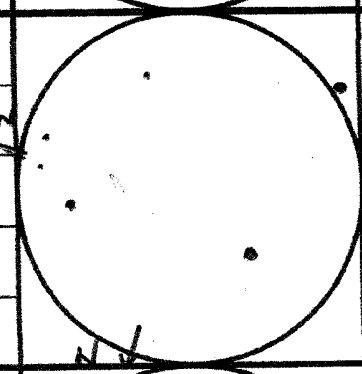
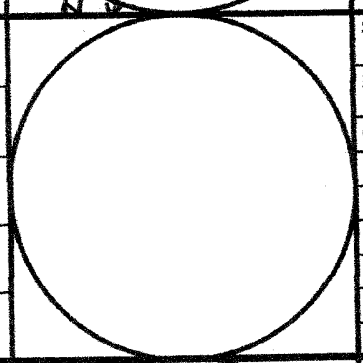
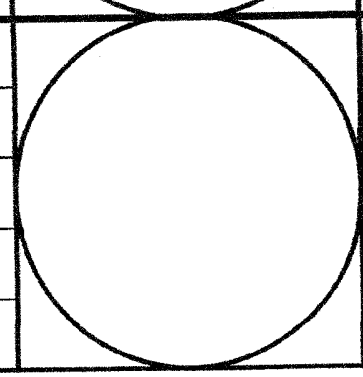
The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is further explained on pages 137-138.

GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC: 5879		SITE: RMCC	SEEING: II / TRANS: II
CONST:		INSTR: XT-12	EYEPIECE: 2x42 / POWER: 75x
No. OF GALAXIES (AV): 1		COMMENTS: ON WAY TO NEXT ONE - Round & dim can't push it	
DATE: 6/19/10			
TIME: 10:55 CDT			
NGC: 5907		SITE: ↓	SEEING: " / TRANS:
CONST: NFGC2946		INSTR: ↓	EYEPIECE: " / POWER: 150x
No. OF GALAXIES (AV): 1		COMMENTS: PA~150° BEAUTIFUL THIN LONG STREAK, THICKER ON SOUTH SIDE & SEEMS LONGER	
DATE: 6/19/10			
TIME: 11:00 CDT			
NGC: 5965/63		SITE: ↓	SEEING: / TRANS:
CONST: NFGC 2994		INSTR: ↓	EYEPIECE: ↓ / POWER:
No. OF GALAXIES (AV): 4		COMMENTS: 5965 seems lenticular due to halo - not as flat as expected PA~40° 5963 nice - is it a bar?	
DATE: 6/19/10			
TIME: 11:10 CDT			
NGC: 5969/71		SITE:	SEEING: / TRANS:
CONST:		INSTR:	EYEPIECE: / POWER:
No. OF GALAXIES (AV):		COMMENTS: While in area No much detail but easily seen	
DATE: 6/19/10			
TIME: 11:15 CDT			

The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is further explained on pages 137-138.

GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC: 6070 + A&B		SITE: RMCC	SEEING: II / TRANS: II
CONST: Ser		INSTR: XT-12	EYEPIECE: 10 / POWER: 150
No. OF GALAXIES (AV): 2		COMMENTS: Only saw of 1 extra	
DATE: 6/20/10		← AV=4	
TIME: 3:10			
NGC: VGC 10287		SITE:	SEEING / TRANS
CONST: MFGC 3111 ← N		INSTR:	EYEPIECE / POWER
No. OF GALAXIES (AV): 1		COMMENTS: SO @ M – difficult to see any detail.	
DATE: 6/20/10		PA ~ 70°	
TIME: 3:20	N		
NGC		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
No. OF GALAXIES (AV)		COMMENTS	
DATE			
TIME			
NGC		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
No. OF GALAXIES (AV)		COMMENTS	
DATE			
TIME			

The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is further explained on pages 137-138.

Observing Log FLAT GAL

Object Type: ~~Galaxy Group or Galaxy Cluster~~

Object ID: N100

R.A.: RFGC 95

Dec.: _____

Magnitude: _____

Const.: _____

Observer B. Yount

Date 8/8/10

Time 7:40 VT

Location RMCC

Seeing I- Transparency II

Faintest Naked Eye Star 6.5

Instrument XT-12

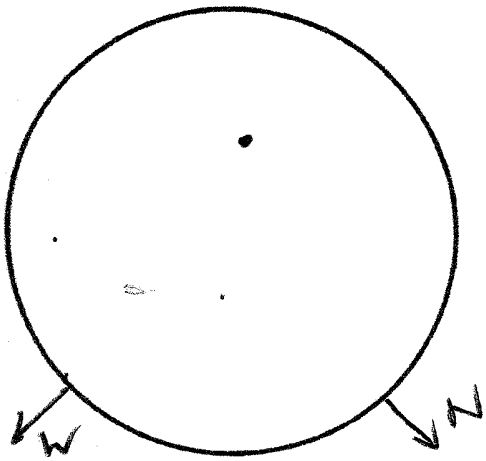
Aperture and Focal Length 12" 1500 mm

Eyepiece 10

Magnification 150 Field of view 0°.4

No. of averted vision galaxies 1

No. of direct vision galaxies —



* Can the faintest galaxy/galaxies be seen with direct vision, or is averted vision required? If averted vision is required, give an estimate on the AV scale for all objects that require it. Use

* Estimate the apparent size of the galaxy ~~group or cluster.~~ 10'

* ~~Do the galaxies form any particular pattern? Are they evenly or unevenly distributed?~~

* Are details such as nuclei, dust lanes or spiral arms visible in any of the galaxies? One 10x3 bar

* Are any of the galaxies close enough to one another ~~to appear superimposed? If so, are~~ any signs of interaction visible?

Description Barely seen bar, long but no details or "2 layers" PA ~ 50°

(McGown, Cole-Huston, Pratt 2000)

Observing Log

Object Type: ~~Galaxy Group or Galaxy Cluster~~ FLAT GALS

Object ID: U1281

R.A.: NEGC 384

Dec.:

Magnitude:

Const.:

Observer B. YOUNG

Date 9/4/10

Time 1:20 CDT

Location RMCC

Seeing II Transparency I-

Faintest Naked Eye Star 6.0

Instrument XT-12

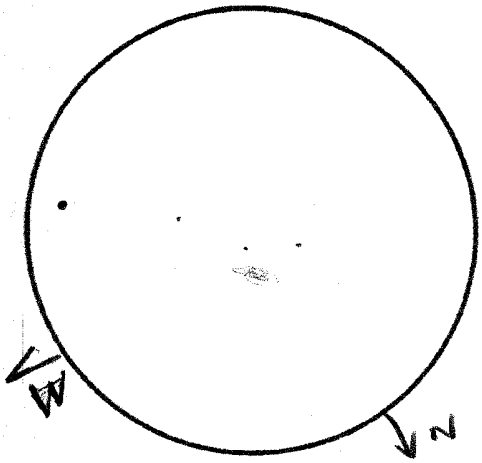
Aperture and Focal Length 12" 1500mm

Eyepiece 10 mm

Magnification 150 Field of view 0°.3

No. of averted vision galaxies 1

No. of direct vision galaxies 0



* Can the faintest galaxy/galaxies be seen with direct vision, or ~~is averted vision required~~? If averted vision is required, give an estimate on the AV scale for all objects that require it. AV=2

* Estimate the apparent size of the galaxy ~~group or cluster~~. 6x<1 mm

* ~~Do the galaxies form any particular pattern? Are they evenly or unevenly distributed?~~ No details but sl. brighter near center

* Are details such as nuclei, dust lanes or spiral arms visible in any of the galaxies? No

* Are any of the galaxies ~~close enough to one another to appear superimposed? If so,~~ are any signs of ~~interaction visible?~~

Description Fairly dim in a blank area. PA ~ 30°

(McGown, Cole-Huston, Pratt 2000)

Observing Log

Object Type: ~~Galaxy Group or Galaxy Cluster~~ FLAT GALS

Object ID: UGC A 442

R.A.: NFGC4177

Dec.:

Magnitude:

Const.: Scl

Observer Bryant

Date 9/4/10

Time 12:30 CDT

Location RMCC

Seeing II Transparency I-

Faintest Naked Eye Star 6.0

Instrument XT-12

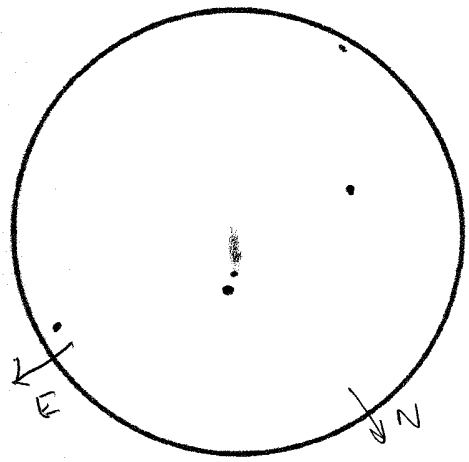
Aperture and Focal Length 12" 1500mm

Eyepiece 10

Magnification 150 Field of view 0.83

No. of averted vision galaxies 1

No. of direct vision galaxies —



* Can the faintest galaxy/galaxies be seen with direct vision, or is averted vision required? If averted vision is required, give an estimate on the AV scale for all objects that require it. AV=3

* Estimate the apparent size of the galaxy ~~group or cluster~~. small & flat 1x5 aspect

* Do the galaxies ~~form any~~ have particular ~~pattern~~? ~~Are they~~ Is the glow evenly or unevenly distributed? details? No details Even glow

* Are details such as nuclei, dust lanes or spiral arms visible in any of the galaxies? No

* ~~Are any of the galaxies close enough to one another to appear superimposed? If so, are~~ any ~~signs of interaction visible?~~

Description Appears lined up with wide double star but slightly more N, PA = 40°

(McGown, Cole-Huston, Pratt 2000)