

Observing Log

Object type: Galaxy

ARCP
316

Object ID: NRC 3190 & 3193

Const.: Leo

RA: _____ Dec.: _____

Mag: _____ Size: _____

Observer BY

Date 4/16/14

Time 11:15 CDT

Location RMCC

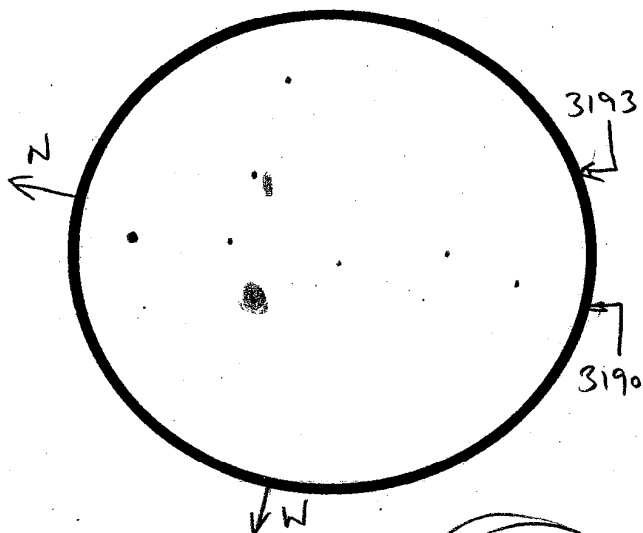
Seeing 4 Transparency 4

Instrument ETX 125

Size 125

Eyepiece 12.4

Field of view _____ Power 153X



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? 3190 is round, 3193 round until rim *helps along 3193 slightly*
- Is a core noticeable? No & No
- Is the core compact or stellar? N/A X2
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? hints but fairly even
- Are there any other deep-sky objects in the same field of view? If so, what? Each other & 3185 1 flid w (not a H400 object)

Description _____

ARP
317 3.11

7.4 Local Group & Galactic Neighborhood Observations (choose one)

Object M66 Group

R.A. _____

Dec _____

Magnitude _____

Constellation Leo

Transparency II -

Seeing III

Date 6/18/9

Time 10:30 pm CST

Location RMCC 3593

Instrument X512

Eyepiece 2x42

Power (X) 90

Field of View 0°6

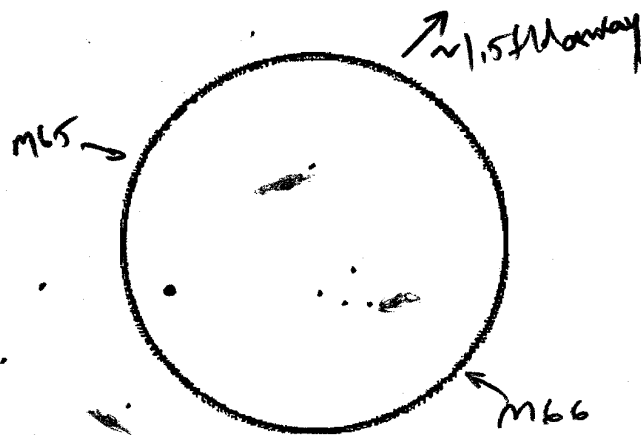
Aperture & Focal Length 12" 1500mm

Faintest Naked Eye Star 5.3

of averted vision galaxies 0

of direct vision galaxies 4

Group or Cluster M66



- * Can the faintest galaxy/galaxies be seen with direct vision ³⁶²⁸ or is averted vision required? If averted vision is required, give an estimate on the AV scale for all objects that require it.
- * Is there any grouping or clustering apparent? Any interaction between galaxies? YES ^{NO}
- * Do the galaxies form any particular pattern? Are they evenly or unevenly distributed?
- * Are details such as nuclei ^{D+1} dust lanes or spiral arms visible in any of the galaxies? in M66 & M65
- * Are any of the galaxies close enough to one another to appear superimposed? If so, are any signs of interaction visible? NO ^{NO}

Description WONDERFUL GROUP - GOTTING LOW BUT
STILL EASILY SEEN

Observing Log

Object Type: Galaxy Group or Galaxy Cluster

ANP
318

Object ID: Hickson 16

R.A.: _____

Dec.: _____

Magnitude: _____

Const.: _____

N835
833
838
839

Observer B. Young

Date 9/20/9

Time 3:10

Location Oketex

Seeing II Transparency II

Faintest Naked Eye Star 6+

Instrument XT-12

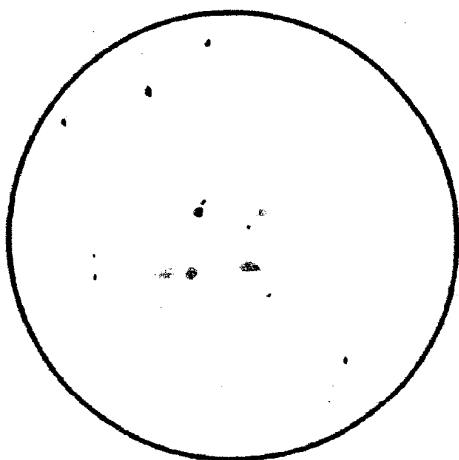
Aperture and Focal Length 12" 1500mm

Eyepiece 10

Magnification 150 Field of view 00.3

No. of averted vision galaxies 4

No. of direct vision galaxies 4



- * 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.
- * Estimate the apparent size of the galaxy group or cluster. 5'
- * Do the galaxies form any particular pattern? Are they evenly or unevenly distributed? No
- * 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? No

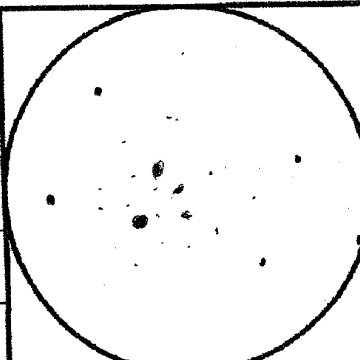
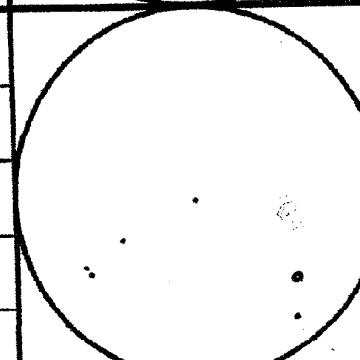
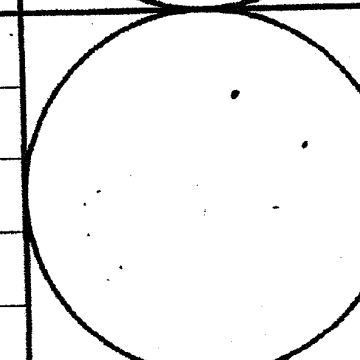
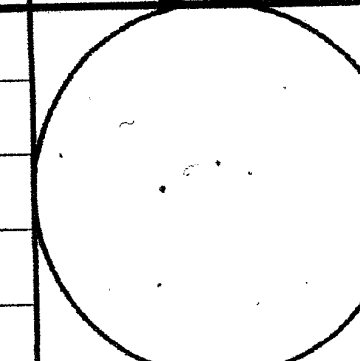
Description 2 round & 2 elongated

(McGown, Cole-Huston, Pratt 2000)

ANP 319

GALAXY GROUP AND CLUSTER OBSERVATIONS

Oure
Tex

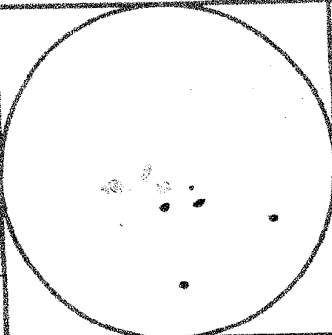
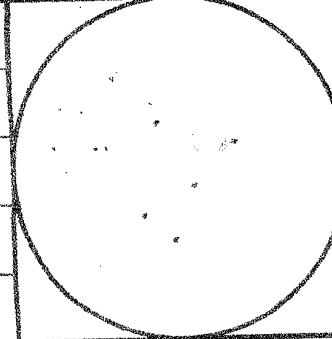
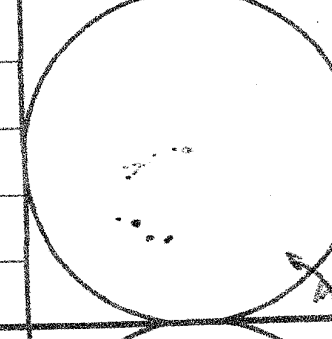
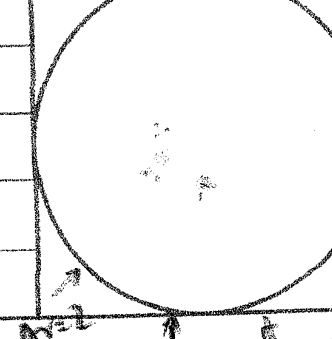
NGC Stephann's Quintet CONST Reg No. OF GALAXIES (AV) 4 DATE 9/16/9 TIME 9:30		SITE O-T INSTR XT-12 SEEING II TRANS I- EYEPIECE 10 POWER 150 COMMENTS 3 1/4 smudges HICKSON #
NGC IC 1613 CONST Psc No. OF GALAXIES (AV) 1 (AV=2) DATE 9/18/9 TIME 12:55		SITE O-T INSTR XT-12 SEEING II TRANS II EYEPIECE 2x42 POWER 75 COMMENTS confirmed
NGC WM CONST No. OF GALAXIES (AV) DATE 9/18/9 TIME 1:10		SITE OureTex INSTR XT-12 SEEING II TRANS II EYEPIECE 2x42 POWER 75 COMMENTS Very faint but KC saw it too
NGC N 77B CONST No. OF GALAXIES (AV) DATE 9/18/9 TIME 1:30		SITE O-T INSTR XT-12 SEEING II TRANS II EYEPIECE 2x42 POWER 75 COMMENTS Small glow, no detail

92
+
L661

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.

69
~~68~~

GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC 2292 group		SITE RMCC	SEEING III	TRANS I-	D12
CONST		INSTR 12"	EYEPIECE 10mm	POWER 150x	
No. OF GALAXIES (AV) 3		COMMENTS ALL AV=1 Nice tight group near field of stars			
DATE 3/4/10		All AV=1 No sign of interaction			
TIME 8:00 CST					
NGC Hick 31		SITE RMCC	SEEING III	TRANS I-	Hickson 31
CONST		INSTR 12"	EYEPIECE 10mm	POWER 150x	
No. OF GALAXIES (AV) 2		COMMENTS No details, small bright one AV=2 Other larger, AV=3			
DATE 3/4/10					
TIME 8:15 CST					
NGC Hick 34		SITE RMCC	SEEING III	TRANS I-	ARP 327 Hickson 34
CONST		INSTR XT-12"	EYEPIECE 10mm	POWER 150x	
No. OF GALAXIES (AV) 1		COMMENTS Very small & dim but cool field			
DATE 3/4/10					
TIME 8:35 CST					
NGC 3607 group		SITE RMCC	SEEING III	TRANS I-	AGG #17
CONST		INSTR XT-12"	EYEPIECE 10mm	POWER 150x	
No. OF GALAXIES (AV) 3		COMMENTS These easy - no 3605 seen			
DATE 3/4/10					
TIME 9:45 CST					

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.

3607 3599

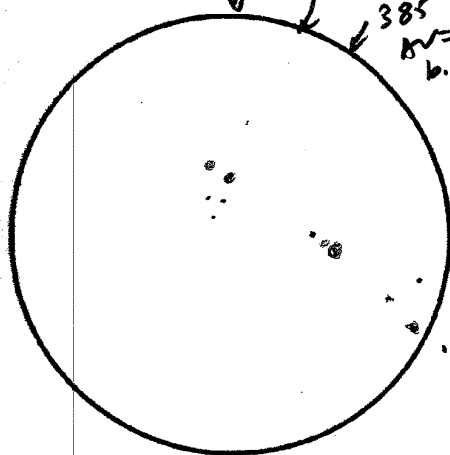
M 66 group
next page

Observing Log

Object Type: Galaxy Group or Galaxy Cluster

ARP 331
A66#6

Object ID: A66#6 P3ces Observer B. Young
R.A.: _____ Cham Date 10/18/09
Dec.: _____ Time 8:25 pm
Magnitude: _____ Location RMCC
Const.: _____ Seeing IV Transparency I



Faintest Naked Eye Star C₁₀
Instrument XT-12
Aperture and Focal Length 1500mm
Eyepiece 10
Magnification 150X Field of view 0.3
No. of averted vision galaxies 3
No. of direct vision galaxies 4

- * 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. see above
- * Estimate the apparent size of the galaxy group or cluster. ~1/2°
- * Do the galaxies form any particular pattern? Are they evenly or unevenly distributed? Definite "chain"
- * 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? 382 looks like a piece of 383

Description Quite striking how they line up.

(McGown, Cole-Huston, Pratt 2000)

ARP
337

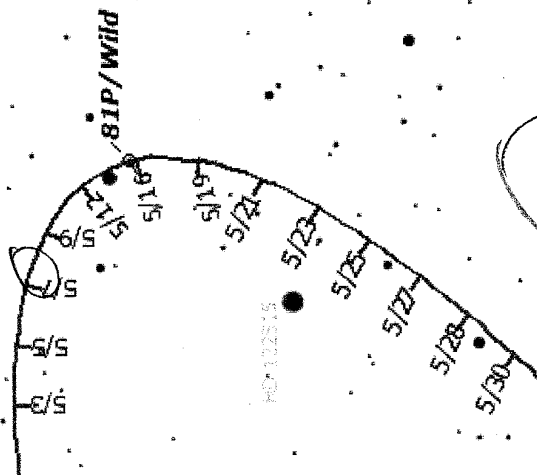
Local Group & Galactic Neighborhood Observations

M81 Group

Object: M81+82+N3077 Date: 6/22/9 Instrument: XT12 Seeing: II Transparency: II Eyepiece: 2x42 mm Power: 37x Time: 11:30 # of Galaxies: 3 FOV: 10.2 AV scale: All DV Dimmest LM star:		Notes: BEST PAIR OUT THERE + ONE IN GROUP THAT JUST FITS IN LOW POWER FIELD M82 MOTTLED, M81 NICHOLOUS GLOW W/ HINTS OF ARMS
Object: IC2574 Date: 6/22/9 Instrument: XT-12 Seeing: II Transparency: II Eyepiece: 2x42 Power: 75x Time: 11:40 # of Galaxies: 1 FOV: 0.6 AV scale: 2 Dimmest LM star: 13		Notes: Very faint but seen, and can hold most of the time. Amorphous glow
Object: N2403 Date: 6/22/9 Instrument: XT-12 Seeing: II Transparency II Eyepiece 2x42 Power: 75x Time: 11:55 # of Galaxies: 1 FOV: 0.6 AV scale: NOT NEEDED BUT USE Dimmest LM star:		Notes: Nice rand glow between 2 stars, may have seen small nucleus.

The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is explained in Appendix V, #4.

Local Group & Galactic Neighborhood, McGown & Murray



5/6/10
10:00 pm
McCabe and I
while sweeping
for carpet -
We observed
it in her
14h 21.7 13.2
@ 120x
AR
25

ARP
271

5/6/2010

73

Observing Log

Object type: Galaxy

H2
Ans 286

Object ID: NBC 5560/66/69

Const.: Vir

Observer B Young

RA: _____ Dec.: _____

Date 6/29/8

Mag: _____ Size: _____

Time 10:58

Location Adams Ranch

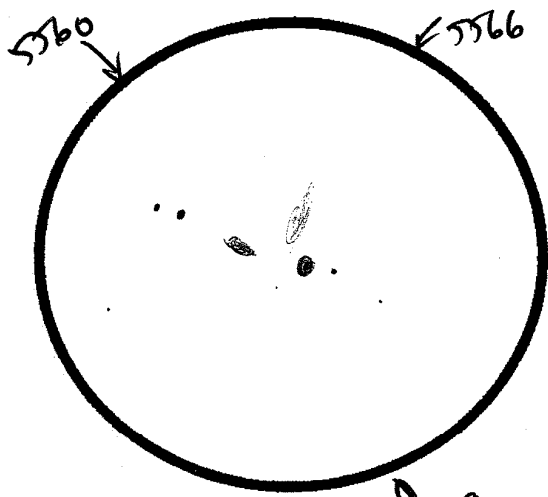
Seeing II Transparency I-

Instrument Xt-12

Size 12

Eyepiece 2x42

Field of view _____ Power 75



- Can this galaxy be seen with direct vision (2), or is averted vision (5566) required?
- What is the overall shape? 5560 = round 5566 = 3x1 glau 5569 = 2x1 glau
- Is a core noticeable? 5560 yes / No / slightly
- Is the core compact or stellar? C/-/c
- Can any detail be seen between the core and the outer envelope of the object? No/No/No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? each of 3

Description _____

74
221

MGC 5-3224 AV=2

GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC	CONST	No. OF GALAXIES (AV)	DATE	TIME	SITE	SEEING	TRANS
M 31		5			RMCC	I	I
					INSTR	12	10 150
					COMMENTS		
					Very spread out		
					w/ 2 brighter & 3 dims		
M 32							
					INSTR	11	10 150
					COMMENTS		
3808+A					RMCC	III	I
					INSTR	12	10 150
					COMMENTS		
					Only one glow seen		
3719/3800							
					INSTR	11	10 150
					COMMENTS		
					AV=3 (both)		
					Nice, elongated no detail		

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	CONST	No. OF GALAXIES (AV)	DATE	TIME	SITE	SEENING	TRANS	INSTR	EYEPIECE	POWER	COMMENTS
4776	18/61/64	4 (?)	3/19/10	12:40	RMCC	II	II	12	10	150	AV=5 4761 AV=1.5 2 nucleus! 4776/4778
5490		3	3/19/10	11:00	RMCC	II	II	12	10	150	AV=1 5490 AV=3 (big) IC 983 AV=2 (small) IC 982 No "C"
5846/50+		5	3/19/10	2:00	RMCC	II	II	12	10	150x	AV=1 5839 AV=1 nice line of relatively easy galaxies
5306+		3	3/19/10	2:25	RMCC	II	II	12	10	150	AV=4 5306 + small round glow and very elongated glow just "shimmery"

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.

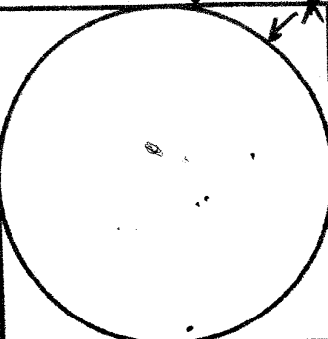
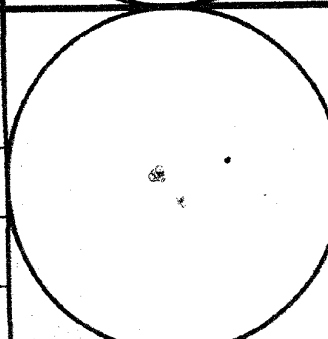
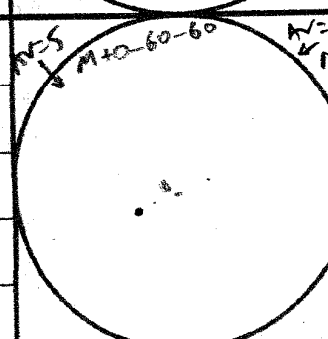
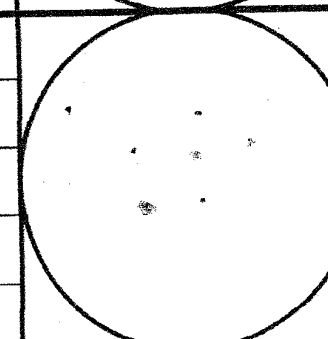
2:15 am
T Cen
CA 1/3 < C ~ 73
C 20
(80)

GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC N5613+		SITE RMCC	SEEING II	TRANS II
CONST 5614		INSTR 12	EYEPIECE 10	POWER 150
No. OF GALAXIES (AV)		COMMENTS AV=1 + AV=3		
DATE 3/14/10		Other no match no split of 5614/5		
TIME 12:25				
NGC A 199		SITE RMCC	SEEING II	TRANS II
CONST		INSTR 12	EYEPIECE 2x42	POWER 75
No. OF GALAXIES (AV) 3		COMMENTS ← 5544/45		
DATE 3/14/10		Wide field showing N5557 to E		
TIME 12:45				
NGC A 199		SITE	SEEING	TRANS
CONST		INSTR	EYEPIECE	POWER 150
No. OF GALAXIES (AV)		COMMENTS		
DATE		5544/45 more detail 2 nuclei? + extension to N/NW.		
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		SITE	SEEING	TRANS
Hick 95		RMCC	II	I
CONST		INSTR	EYEPIECE	POWER
No. OF GALAXIES (AV)		XT-12	10	150x
DATE		COMMENTS		
12/20/9		N7609 not DV, not split into 2.		
TIME				
8:15 pm				
NGC		SITE	SEEING	TRANS
Hick 96		INSTR	EYEPIECE	POWER
CONST		COMMENTS		
No. OF GALAXIES (AV)		N7674 AV=1 nice, oval,		
2		w/ stellar nucleus		
DATE		N7675 AV=3 no detail		
"				
TIME				
9:25 pm				
NGC		SITE	SEEING	TRANS
Hick 98		INSTR	EYEPIECE	POWER
CONST		COMMENTS		
No. OF GALAXIES (AV)		N7783		
3		STATE ONLY		
DATE		RE (right eye)		
"		E-AV 4 M+0-60-60		
TIME		NOT SURE IF THEY		
9:35 pm		TOUCH - VERY		
		DIFFICULT		
		MEANBY		
NGC		SITE	SEEING	TRANS
7699-7701		INSTR	EYEPIECE	POWER
CONST		COMMENTS		
No. OF GALAXIES (AV)		2 for sure, last one very		
3		difficult. No details		
DATE				
"				
TIME				
9:45 pm				

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.

AV=1 AV=2 AV=3 AV=4

GALAXY GROUP AND CLUSTER OBSERVATIONS

3994 =
Apr 85

NGC 3991/4/5		SITE RMCC	SEEING I	TRANS I
CONST		INSTR 12"	EYEPiece 10	POWER 150x
No. OF GALAXIES (AV) 3		COMMENTS A "bridge" seen w/ AV		
DATE 4/8/10				
TIME 10:00				
NGC 3966/3986		SITE RMCC	SEEING I	TRANS I
CONST		INSTR 12"	EYEPiece 10	POWER 150
No. OF GALAXIES (AV) 2		COMMENTS While nearby		
DATE 4/8/10				
TIME 10:10				
NGC 5257/8		SITE "	SEEING "	TRANS "
CONST		INSTR "	EYEPiece "	POWER "
No. OF GALAXIES (AV) 2		COMMENTS Can't quite connect 2 distinct glows almost make a 1/2 shell		
DATE 4/8/10				
TIME 10:20				
NGC UGC 9532		SITE "	SEEING "	TRANS "
CONST		INSTR "	EYEPiece "	POWER "
No. OF GALAXIES (AV) 1		COMMENTS Barely seen - 1 small glow		
DATE 4/8/10				
TIME 10:45				

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

Object type: Nebula Galaxy

Object ID: Abell 779 (#19)

Abell
#19

Const.: _____

Observer B. Young

RA: _____ Dec.: _____

Date 4/11/10

Mag: _____ Size: _____

Time 12:00

Location RMCC

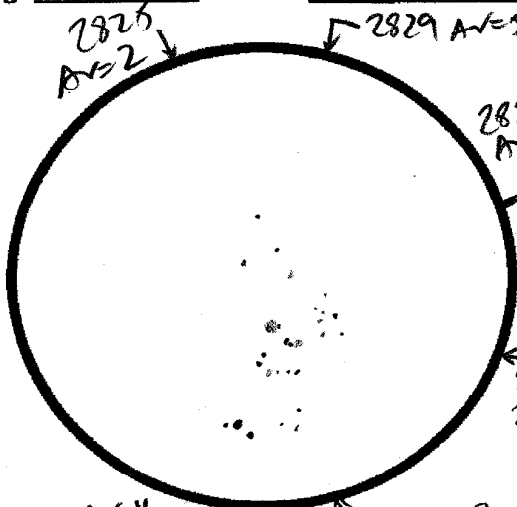
Seeing II- Transparency I

Instrument XT-12

Size 12"

Eyepiece 10mm

Field of view 0.3 Power 150x



ARP
315
(N2832)

- Can this nebula be seen with direct vision, or is averted vision required? SEE AV NOTES
- Is there an overall shape of the object or is it simply irregular? Group Fairly clumpy
- Is any part of the outer edge of the nebula sharply defined? galaxy No details to any-
- Is any part of the nebula brighter or more concentrated? Small rand glows
- Is there any particular area where you notice an absence of stars in this cluster? No
- Are there any voids or dark patches, or lanes in the nebula? galaxies Any bright filaments or streamers? No
- Is there an open cluster nearby or involved or any obvious stars involved with this nebula? group More
- Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)? Field
- Are there any other deep-sky objects in the same field of view? If so, what? Each other

Description _____

GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC	CONST	No. OF GALAXIES (AV)	DATE	TIME	SITE	SEEGING	TRANS	COMMENTS
2943 cluster			3/18/10	10:30	RMCC	II	II	AV=3 small, dm 2946 2943 looks elliptical 2933 AV=3 elongated
Copeland's	Septet	2	3/18/10	10:50	RMCC	II	II	only 2 for me AV=2 AV=4
N3697		2	3/18/10	11:00	RMCC	II	II	AV=4 & one tiny spot AV=1 easy but small
IC 700		1	3/18/10	11:10	RMCC	II	II	Only one, at AV=2 elongated

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

Object type: Galaxy

Object ID: N6c 5839/45/46/50

H 2
(5850)

Const.: _____

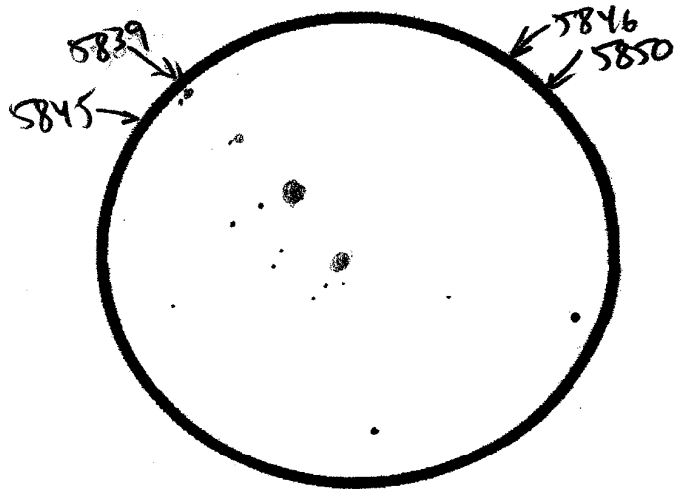
Observer B. Young

RA: _____ Dec.: _____

Date 7/2/8

Mag: _____ Size: _____

Time 12:45 CDT



Location ANCE

Seeing II Transparency II

Instrument XT-12

Size 12

Eyepiece 2x42

Field of view _____ Power 75

- Can this galaxy be seen with direct vision, or is use averted vision required? on all
- What is the overall shape? All elliptical
- Is a core noticeable? Yes s/s/c/c
- Is the core compact or stellar? ↑
- Can any detail be seen between the core and the outer envelope of the object? No
- Are the edges of the outer envelope sharp or diffuse?
- Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? No
- Are there any other deep-sky objects in the same field of view? If so, what? Each other

Description 5839 & 5845 e.o.v. & small