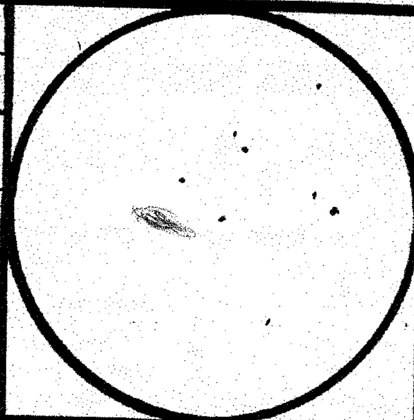
HERSCHEL OBSERVATIONS

NGC 4123
CONST
DATE 6/8/16
TIME 4:30

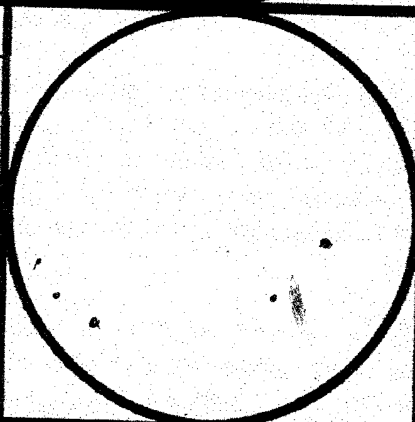


SITE ACT | SEEING II | TRANS I-
INSTR 22"UC | EYEPIECE 10E | POWER 240x

COMMENTS
LOOKS LIKE I ONLY SAW
THE BAR, OUTLAYING THIN
DIM ARMS NOT SEEN.
FS = MATCH

H3
~~138~~
153

NGC 4348
CONST
DATE "
TIME 4:35

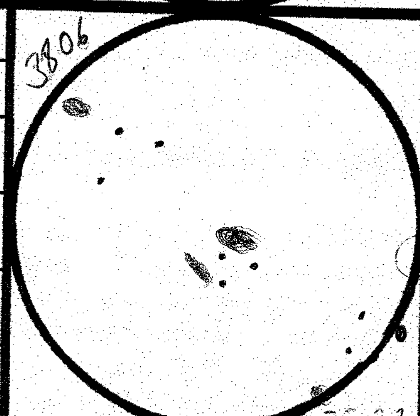


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
FLAT! — VERY TIPPED SPIRAL
COOL! NOT VERY BRIGHT
BUT STILL A GOOD SIGHT

~~FS?~~
H3
~~149~~ 164

NGC 3801/2
CONST +
DATE "
TIME 4:45

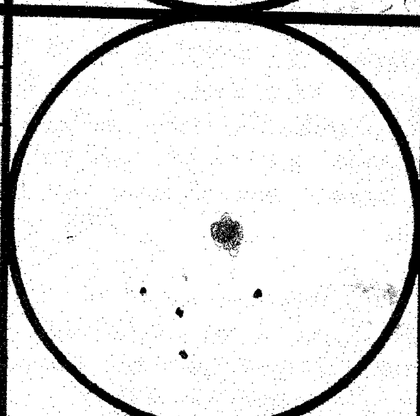


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
← ~~3796~~
← 3801
← 3802
← 3790
~~3803~~
SWITCH?

H3
134 (3801)
&
135
(3802)
+ WITH

NGC 3968
CONST
DATE "
TIME 4:55

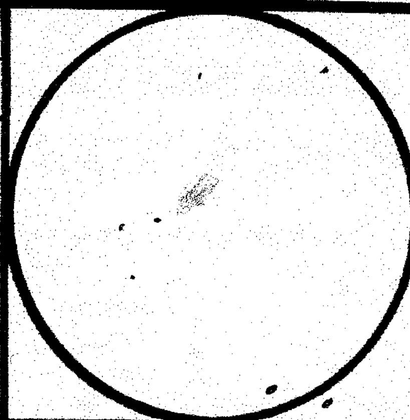
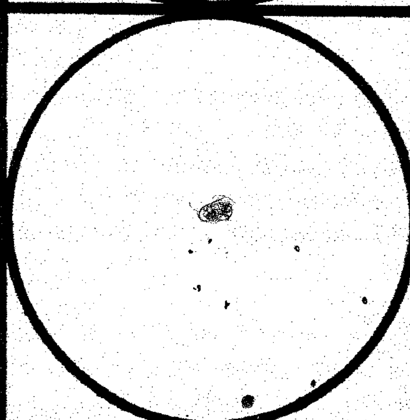
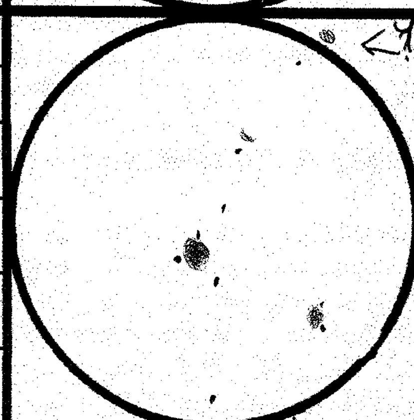
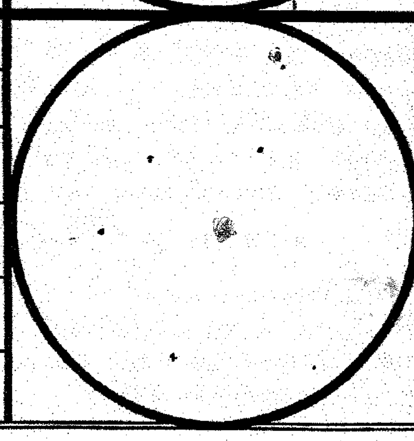


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
dbl * or FS? — may
have been hint of arm

H3
148

HERSCHEL OBSERVATIONS

NGC 4455 CONST DATE 6/8/16 TIME 5:00		SITE ACT · SEEING II · TRANS I- INSTR 22UC · EYEPIECE 10S · POWER 240X COMMENTS FAINT, OVAL, NOT MUCH DETAIL BUT SEEN
NGC 4561 CONST DATE " TIME 5:05		SITE ↓ · SEEING ↓ · TRANS INSTR ↓ · EYEPIECE ↓ · POWER COMMENTS NICE, BRIGHTER, ROUND W/ DETAIL - HINT OF CRESCENT SHAPE NUC + OTHER SHOWN IN IMAGES
NGC CONST DATE TIME	 ← 4890	SITE · SEEING · TRANS INSTR ← 4893 · EYEPIECE · POWER COMMENTS ← 4864 ← 4898
NGC 4893 CONST DATE 6/8/16 TIME 5:05		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS 4870

H3
~~H3~~ H3
#197

H3
~~183~~
#198

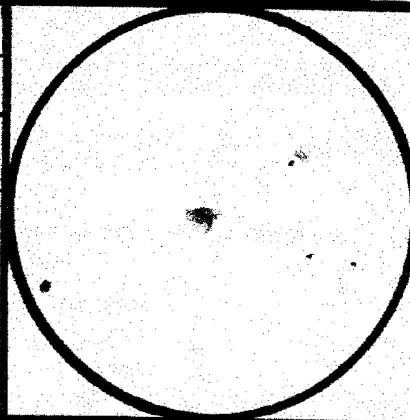
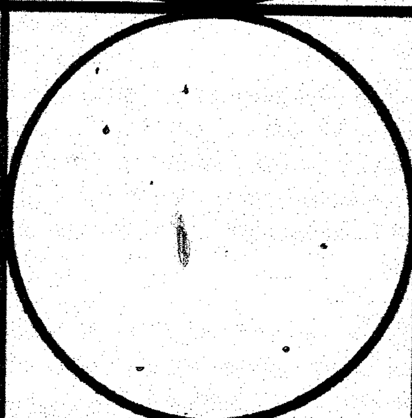
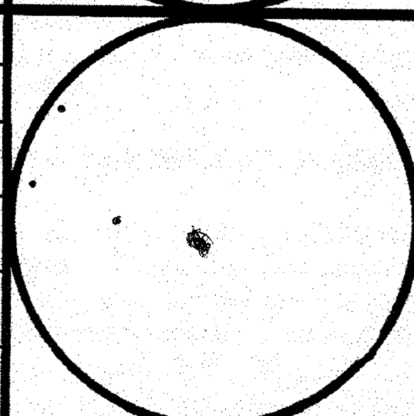
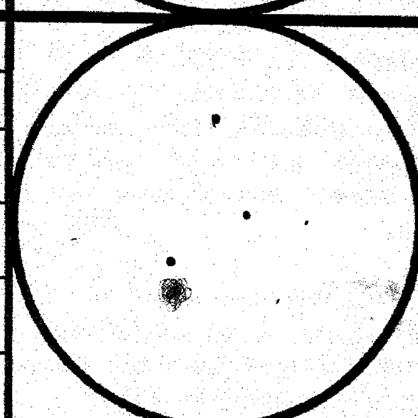
H3
216

W/
216's

FIGURE OUT

58

HERSCHEL OBSERVATIONS

NGC 3976+		SITE ACG — SEEING II — TRANS II
CONST A		INSTR 22" — EYEPIECE 10E — POWER 240X
DATE 6/9/16		COMMENTS: ELONG, A BIT OF ARM SEEN "A" SEEN AVEY NEAR FS
TIME 3:10		H3 157
NGC 4197		SITE ↓ — SEEING ↓ — TRANS
CONST		INSTR ↓ — EYEPIECE ↓ — POWER
DATE "		COMMENTS: LOVELY — VERY THIN, SEEN BUT NOT BRIGHT, NUC & SOME MOTTLING
TIME 3:20		H3 156
NGC 4217		SITE ↓ — SEEING ↓ — TRANS
CONST		INSTR ↓ — EYEPIECE ↓ — POWER
DATE "		COMMENTS: LENTICULAR, LARGE NUC, ELONG 3X1
TIME 3:30		H3 157
NGC 4241		SITE ↓ — SEEING ↓ — TRANS
CONST		INSTR ↓ — EYEPIECE ↓ — POWER
DATE "		COMMENTS: EASY & BRIGHT, ROUND HALO LARGE NUC
TIME 3:40		W/ 157

NGC	4206
CONST	
DATE	6/9/16
TIME	4:00

SITE	SEEING	TRANS
AET	II	II
INSTR	**EYEPIECE**	**POWER**
22UC	10E	240x

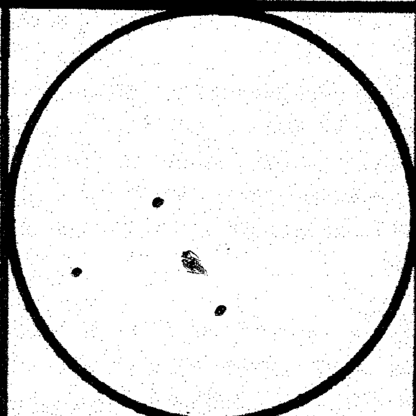
COMMENTS

↖4206 MORE THAN 1 FLD BUT SO CLOSE THEY ARE A GREAT PAIR — LITTLE BROTHER + ↙4216 BIG BRO — 4206 HIGHLY TIPPED SPIRAL, NVC, HINT OF BULGE 4216 BRIGHTER, MORE DETAIL, DUSTY AREA NEAR NK

H3

158

NGC	4193
CONST	"
DATE	"
TIME	4:10



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

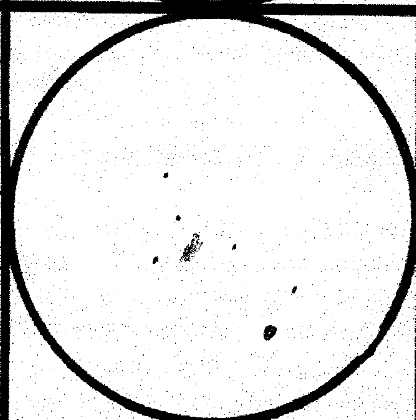
COMMENTS

NEARBY, SMALL, NVC + FS ON EDGE, NOT MUCH DETAIL

W

158

NGC	4425
CONST	
DATE	"
TIME	4:15



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

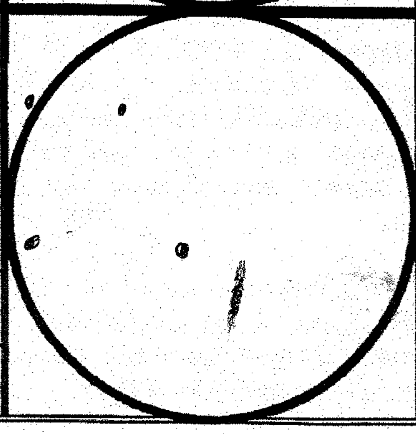
COMMENTS

ALL OTHERS ON CHART SEEN BUT NOT DRAWN HERE. M84+M86 "THE EYES" ESPECIALLY GRAND I MUST'VE SEEN THIS ONE W/THIS SAME GROUP MANY TIMES, JUST DIDN'T CONCENTRATE ON IT — NOT SURPRISING — IT'S SMALL & DIM W >> NEIGHBORS

H3

160

NGC	4452
CONST	
DATE	"
TIME	4:25



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

8 SPOTS SEEN DOWN CENTERLINE ONE WAS NVC, VERY CLUMPY

IN M84/6/7 NEIGHBORHOOD

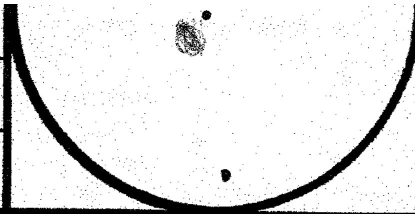
H3

162

5112

DATE 6/9/16

TIME 4:50



"J" FEATURE IN DISK

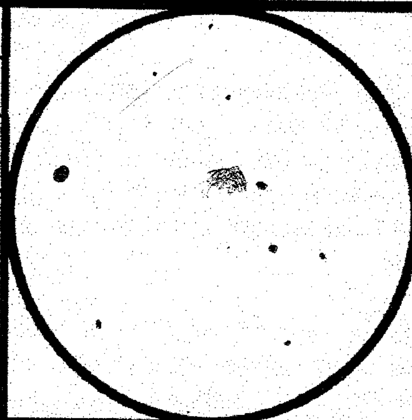
ON FS SIDE

NGC 5112

CONST

DATE "

TIME 5:10



SITE ↓ SEEING ↓ TRANS

INSTR EYEPIECE POWER

#3

230

COMMENTS

HAS A HUMP SHAPE

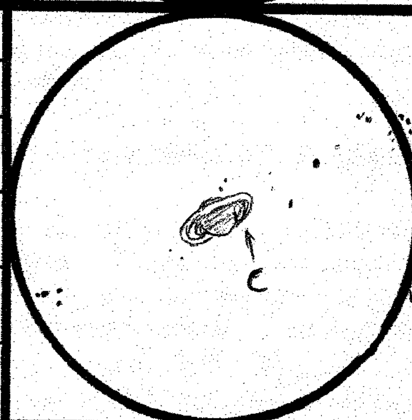
NUC OFFSET (MAY BE SUPERIMPOSED FS)

NGC ♄

CONST

DATE 6/11/16

TIME 3:00



C

SITE ↓ SEEING ↓ TRANS

INSTR EYEPIECE POWER

COMMENTS

← FS

C" RING SEEN

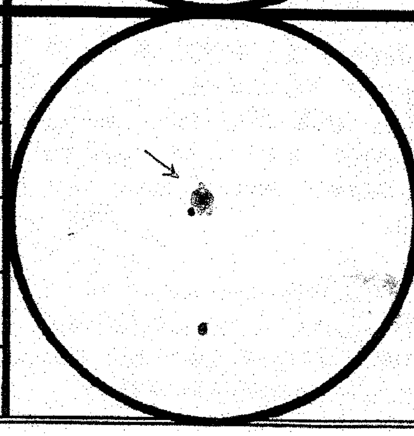
← FS

NGC 4125

CONST

DATE 6/11/16

TIME 3:10



SITE ↓ SEEING ↓ TRANS

INSTR EYEPIECE POWER

COMMENTS

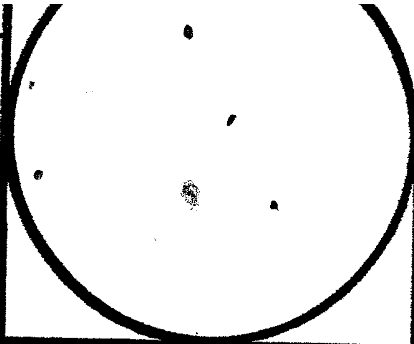
W/SN (JUST OFF NUC)

MICHAEL TOLD ME ABOUT IT

GAL = ELLIP, NICE, SMALL

DATE 6/26/16

TIME 4:20



INSTR 6/26/16 | EYEPIECE 24 | POWER 100X

H3 166

COMMENTS

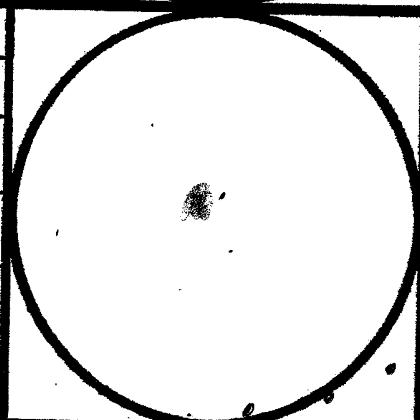
W/visitor – 2x1 elong
glow near FS line of 2
Hint of bar YES! IT DOES
HAVE A BAR ⊗

NGC 3963

CONST

DATE 〃

TIME 4:30



SITE ↓ | SEEING 〃 | TRANS 〃

INSTR ↓ | EYEPIECE 10 | POWER 240X

H3 150

COMMENTS

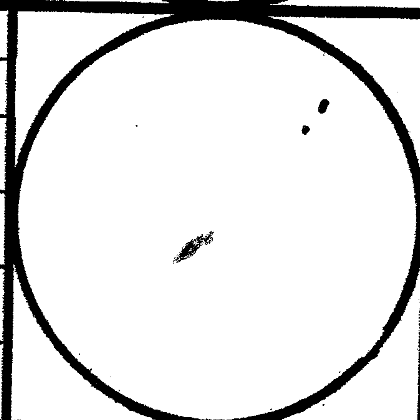
Large round glow w/
Stellar nuc & star just
off edge

NGC 4694

CONST

DATE 〃

TIME 4:40



SITE ↓ | SEEING ↓ | TRANS

INSTR ↓ | EYEPIECE ↓ | POWER

H3 199

COMMENTS

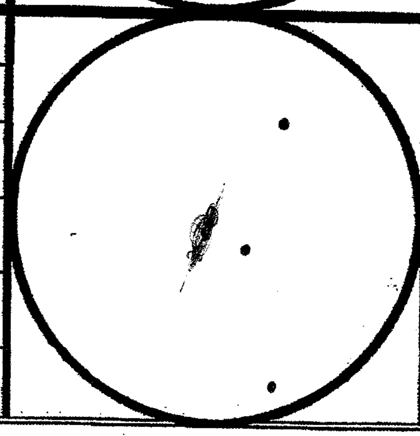
Lovely, tipped – looks
like spiral, compact nuc,
mottly bulge & in one arm

NGC 4710

CONST

DATE 〃

TIME 4:50



SITE ↓ | SEEING ↓ | TRANS

INSTR ↓ | EYEPIECE ↓ | POWER

H3 200

COMMENTS

Very nice elong almost
edge on/flat with much
detail as shown.

(9) ~~X XF : Ser~~

The American Association of Amateur Astronomers

Observing Log

www.AstroMax.com

Observer: B YOUNG **Location:** ACT **Page:** 1 of 1

INDEX	Date	Time	Power	Seeing	Type Instrument	Notes	
Object	6/26/16	5:00	240	II	22"Jc 10E f4.2	N4750 Fine elliptical w/ line of FS	H3 201
Object	↓	5:10	↓	↓	↓	N4814 Xerox copy – but with skinny look FS	H3 214
Object	↓	5:20	↓	↓	↓	N4793 Nice tipped/foreshortened large bright nuc – stubby arms	H3 219
Object	↓	5:30	↓	↓	↓	N5222 + 5221 (NEW) (ARP 288) NO 5226 5222 ← oval, not much detail, brighter 5221 ← larger, dimmer, elong, hint of arms	ARP 288
Object	↓	5:40	↓	"	↓	~~N5230 w/ 5221 in same~~ field (sl. > 1 field) 2 ovals near each other – no interaction Not much detail, both easy	H3 234
Object	↓	5:50	↓	↓	↓	N5301 Bright compact nuc, arms, great FS	H3 237
Object	↓	6:00	← 5296	"	↓	N5297 Larger, brighter copy of 5301 ← 5296 small, but not too faint round elliptical 5297 FS really make it pop	H3 238
Object	↓	6:10	↓	↓	↓	N5290 Nice, not bright but large & has a "wavy" look to arms vs. nuc	H3 239
Object	↓	6:15	↓	↓	↓	N5289 Field of several; this is oval, no details	
Object	↓	6:25	↓	"	↓	~~5326~~ another oval, no detail w bright FS nearby NO SEARCH FOR 5346	H3 240

N5337 ← another similar object in a Δ of fs, a little more compact.

(64)

← ALSO *

← brother

N d51 ✓

4445

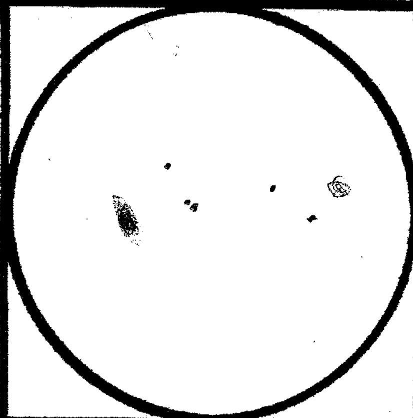
3 open

3 hi

4410 IC 790

HERSCHEL OBSERVATIONS

NGC 4417
CONST
DATE 7/25/16
TIME 3:10 AM

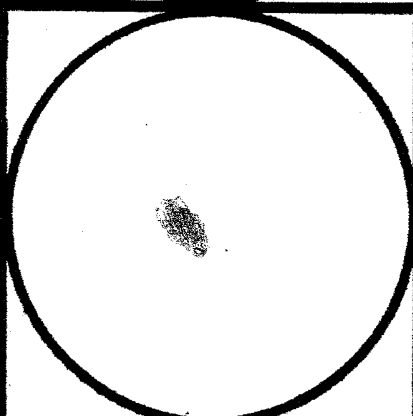


SITE ACT **SEEING** III **TRANS** II
INSTR 22" UC **EYEPIECE** 10E **POWER** 240x

COMMENTS
← 4424 OVAL, DIM, LARGE
← 4417 BRIGHT, SQUAT SPIRAL W/ ALL NUC.

H3 168

NGC 4469
CONST
DATE "
TIME 3:25 AM

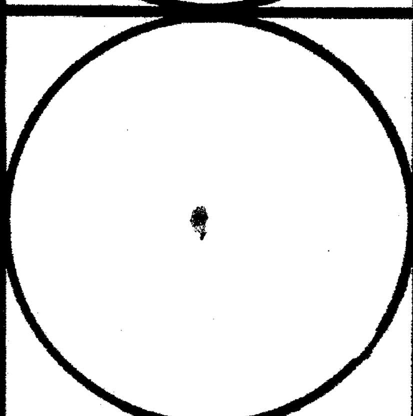


SITE ↓ **SEEING** **TRANS** ↓
INSTR **EYEPIECE** **POWER**

COMMENTS
ALONE IN FIELD
TILTED SPIRAL, LARGE
NOT BRIGHT

H3 169

NGC 4421
CONST
DATE "
TIME 3:3?



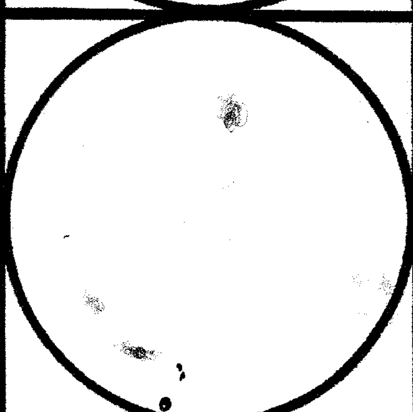
SITE ↓ **SEEING** **TRANS** ↓
INSTR **EYEPIECE** **POWER**

COMMENTS
BRIGHT ROUND SPOT
← YES, THERE'S A STAR!

H3 170

NGC 5376 f
CONST 5379 +
5389

DATE "
TIME 3:50

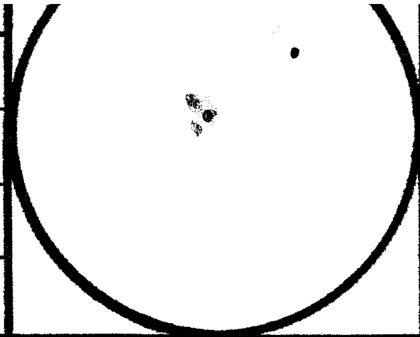


SITE ↓ **SEEING** ↓ **TRANS**
INSTR **EYEPIECE** **POWER**

COMMENTS
↖ 5376 NEARLY EVEN GLOW, LARGER/MED BRIGHT
← 5379 SNUC, DIM BUT SEEN / OVAL, NOT MUCH DETAIL
← 5389 LARGER, BRIGHTER, BNUC, NICE HALO APPEAR

H3 252 253 254

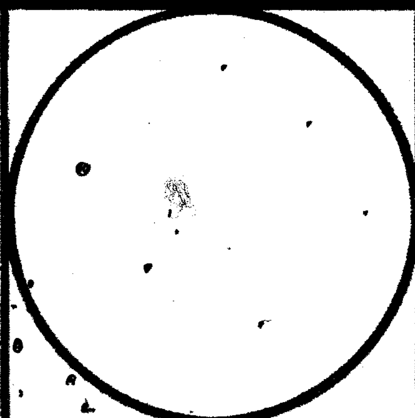
5472 | | 2200 | 10 | 240 H3



COMMENTS
← 5468 ROUND, MOSTLY 285
NUCLEUS NO ARMS LIKE PICS
↖ 5472 DIM AV=3 JUST
A SMALL OVAL GLOW

DATE 7/25/16
TIME 4:00

NGC 6926
CONST



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS H3
STRANGE GLOW, ALMOST 282
A BAR SHAPED NUC
W/SURROUNDING GLOW —
FAINT BUT INTERESTING

DATE "
TIME 4:45

NGC
CONST
DATE
TIME

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

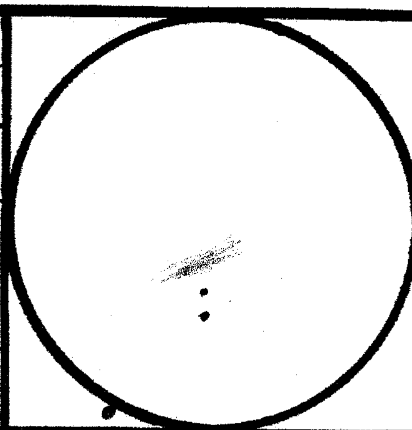
NGC
CONST
DATE
TIME

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

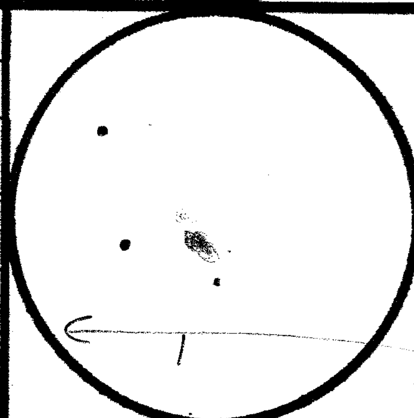
COMMENTS

HERSCHEL OBSERVATIONS

Acq

NGC 3735		SITE 7/31/16	SEEING III TRANS III
CONST		INSTR 22UC	EYEPIECE 26 POWER 100
DATE 7/21/16		COMMENTS	
TIME 3:38		AFTON PEAK – 8AM	
		CLOUDS BEG. IN W,	
		LOVELY, VERY DIM – CAN'T TRACE RMAX	
		THOUGHT IT WOULD BE A FLAT GAL	

H3 132

NGC 5678		SITE ↓	SEEING III TRANS II
CONST		INSTR ↓	EYEPIECE 10 POWER 240
DATE "		COMMENTS	
TIME 3:45		OVAL, SMALL NUC, NICE FIELD	
		8 – 20S	

H3 261

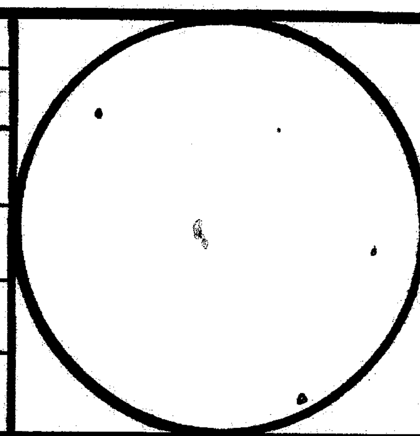
NGC		SITE	SEEING TRANS
CONST		INSTR	EYEPIECE POWER
DATE		COMMENTS	
TIME			

NGC		SITE	SEEING TRANS
CONST		INSTR	EYEPIECE POWER
DATE		COMMENTS	
TIME			

[redacted]

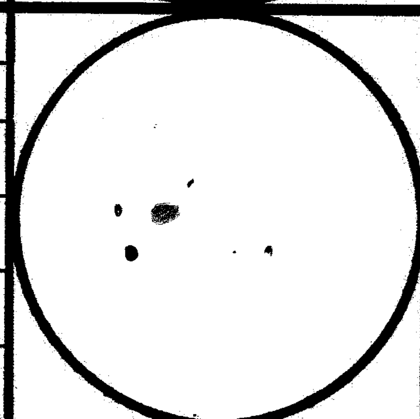
HERSCHEL OBSERVATIONS

NGC 5669
CONST
DATE 9/3/16 (1)
TIME 1150



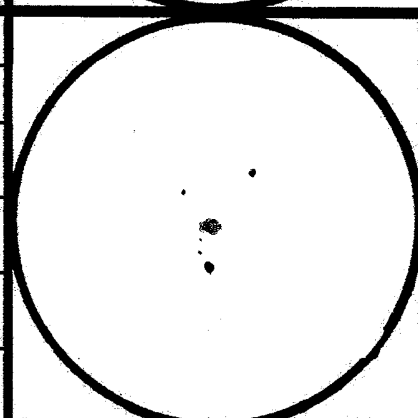
SITE ACT | SEEING II | TRANS II
INSTR 22IN | EYEPIECE 10 | POWER 240
COMMENTS
LOVELY "WINGS" ON A SMALL NUC - STILL A BIT TWILIT. H3 258

NGC 5645
CONST
DATE "
TIME 2100



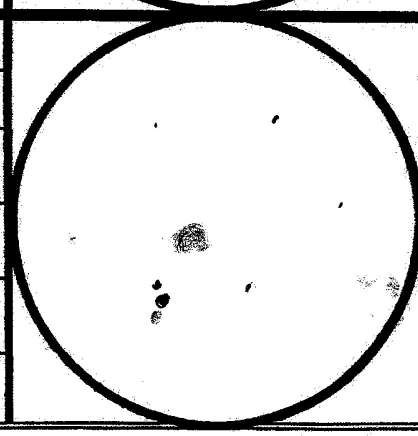
SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE 10 | POWER
COMMENTS
BRIGHT OVAL EVEN GLOW IN EASY FIELD H3 260

NGC 5701
CONST
DATE "
TIME 2105



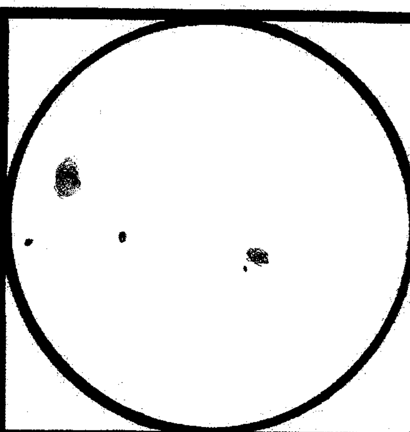
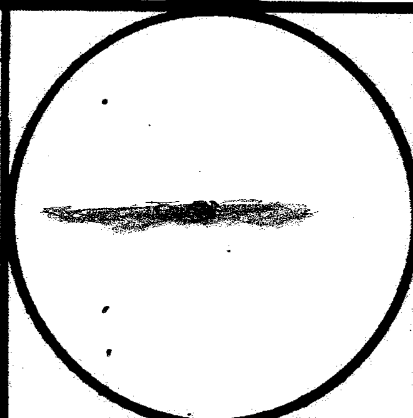
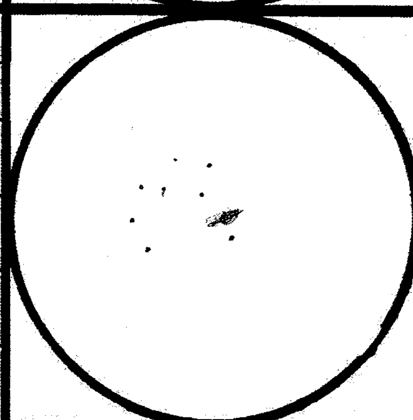
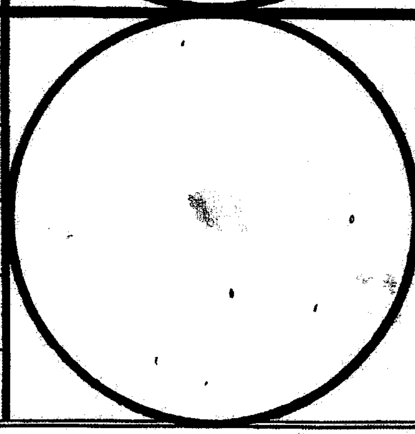
SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER
COMMENTS
ROUND NUC, SOMETHING OF A HALO H3 263

NGC 5678
CONST
DATE "
TIME 2110



SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER
COMMENTS
LARGE, FAIRLY BRIGHT, OVAL, NOT MUCH DETAIL H3 261
← ANOTHER GLOW
(PGC 51922 NEAR HERE)

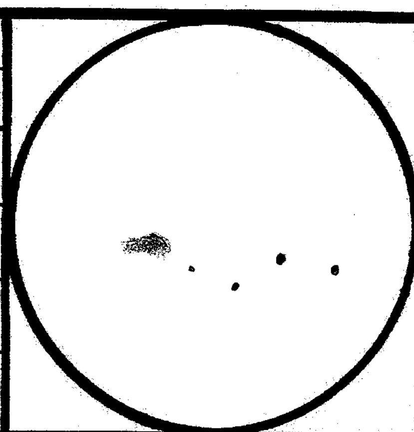
HERSCHEL OBSERVATIONS

NGC	Sketch	Site / Instr / Comments
NGC 5713 CONST + 5719 DATE 9/3/16 2 TIME 2:40		SITE ACT · SEEING II · TRANS II INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS: 5713 B, L, HAS A BAR OR ARM VISIBLE 5719 SMALLER, OVAL, NO DETAIL
NGC 5907 CONST DATE " TIME 2:50		SITE · SEEING · TRANS INSTR · EYEPIECE 10 · POWER COMMENTS: CAN'T BELIEVE THIS ISN'T BETTER KNOWN! FIELD FULL OF FLAT GAL, DUSTY BUMPS, NUC SEEN, NOT DIM!
NGC 5908 CONST DATE " TIME 3:00		SITE · SEEING " · TRANS " INSTR · EYEPIECE 24 · POWER 100 COMMENTS: MUCH S, D, BUT SOME DETAIL, NUC, BAR ACROSS W/ HALO
NGC 5905 CONST DATE " TIME 3:05		SITE · SEEING " · TRANS " INSTR · EYEPIECE 10 · POWER 240 COMMENTS: IRR, NOT TOO DIM, LONELY

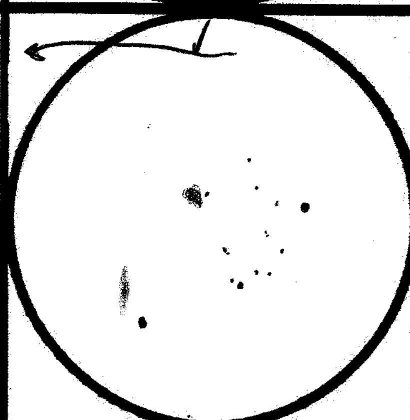
H3 266
H3 267
F6, H1, LV
H3 274
H3 273

[redacted]

HERSCHEL OBSERVATIONS

NGC 5875		SITE ACT
CONST		INSTR ↓
		SEEING II TRANS II
DATE 9/3/16 (3)		EYEPIECE 10 POWER 240
TIME 3:15		COMMENTS SADDLE SHAPE, SEEMS LARGER ON P SIDE L, NOT DIM

H3 275

NGC 5963/		SITE ↓
CONST 5965		INSTR ↓
		SEEING ↓ TRANS
DATE "		EYEPIECE POWER
TIME 5:30		COMMENTS 5963 SPIRAL W/NOT MUCH DETAIL SN (58) -10s ON 5965 VERY ELONG FLAT, NVC SEEN WONDERFUL

5965 = H3 279

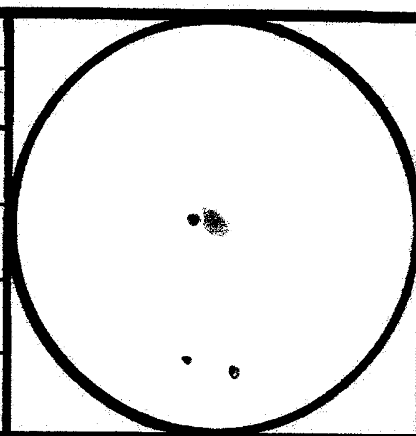
NGC		SITE
CONST		INSTR
		SEEING TRANS
DATE		EYEPIECE POWER
TIME		COMMENTS

NGC		SITE
CONST		INSTR
		SEEING TRANS
DATE		EYEPIECE POWER
TIME		COMMENTS

[redacted]

HERSCHEL OBSERVATIONS

NGC 5792
CONST
DATE 9/4/16 (1)
TIME 2:00

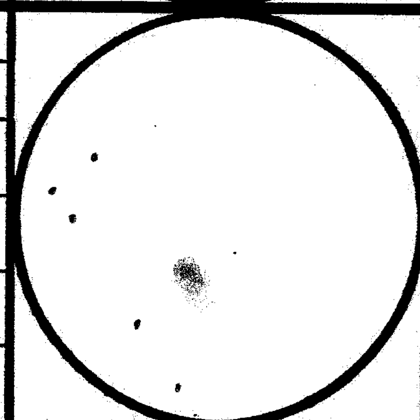


SITE Act SEEING II TRANS II
INSTR 22VC EYEPIECE 10 POWER 240

COMMENTS
Mini "Black Eye" next to a FS - very cool!

H3 269 *

NGC 5962
CONST
DATE "
TIME 2110

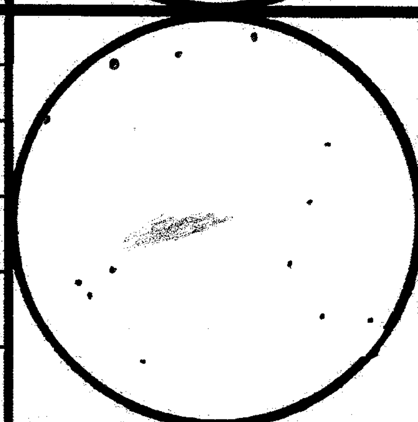


SITE ↓ SEEING TRANS
INSTR ↓ EYEPIECE 10 ↓ POWER

COMMENTS
A bit dim & irr, L, some mottling but no real detail

H3 278

NGC 5984
CONST
DATE "
TIME 2130

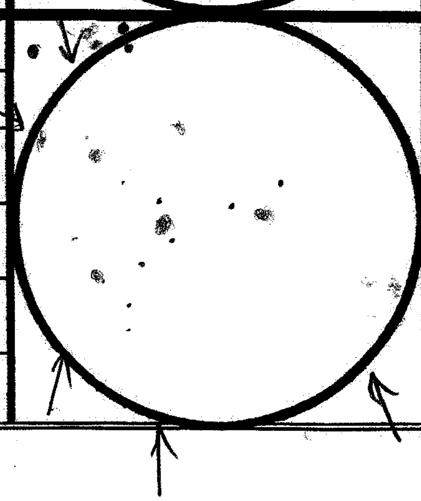


SITE ↓ SEEING TRANS
INSTR ↓ EYEPIECE 10 ↓ POWER

COMMENTS
Cool!!
VL, d, lots of dust, no nuc, fat short M104 clone

H3 280 *

NGC 7385+
CONST (AV=2)
DATE "
TIME 2:50



SITE ↓ SEEING TRANS
INSTR ↓ EYEPIECE 10 ↓ POWER

COMMENTS
Mega cluster
= 7386 7383 87/89/90
All FS, d, Sp, but AV=1 ex cn (2)
and very nice!

* H3 289 TITV

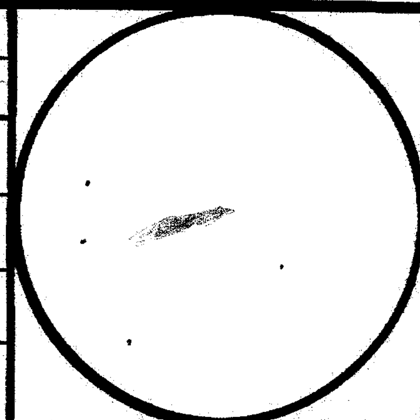
[redacted]

5.7 BIG

FELL / EQUATE / SORRY LASER 9/3 → FITE
OUT OF OBS'S BIG CHAIR AT W/ MER MICHAEL
HOME AT 7AM

HERSCHEL OBSERVATIONS

NGC 7497
CONST
DATE 9/4/16 (2)
TIME 3:15

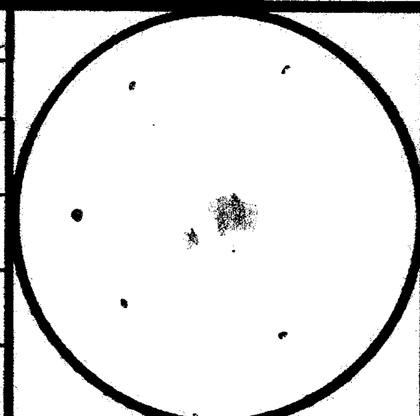


SITE ACT | SEEING ↓ | TRANS
INSTR 22UC | EYEPIECE 10 ↓ | POWER 240

COMMENTS
Again, fd but very long,
↳ lots of dust, tony ave
what a site!

H3 290 ☆

NGC 7753/2
CONST
DATE "
TIME 3:20

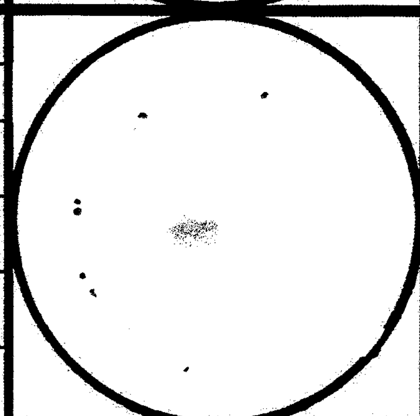


SITE ↓ | SEEING ↓ | TRANS
INSTR ↓ | EYEPIECE ↓ | POWER

COMMENTS
← ARMS (HINTS OF ARMS SAW
PIC/MORE OBVIOUS AFTER
PIC)
← ONE BRIGHT POINT, O/W IRR

H3 296

NGC 5949
CONST
DATE "
TIME 3:50



SITE ↓ | SEEING ↓ | TRANS
INSTR ↓ | EYEPIECE 24 ↓ | POWER 100

COMMENTS
↳ d, not much detail
but very cool glow
tapering to N

H3 277

NGC
CONST
DATE
TIME

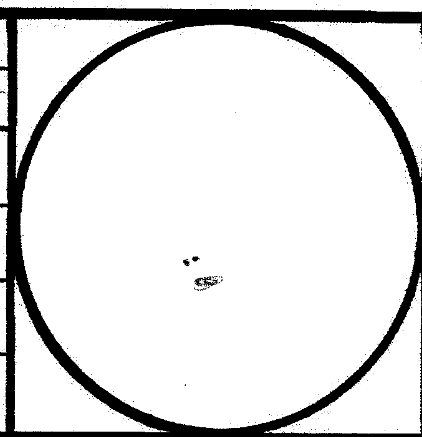
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

[redacted]

HERSCHEL OBSERVATIONS

NGC	670
CONST	
DATE	9/30/16
TIME	4:00



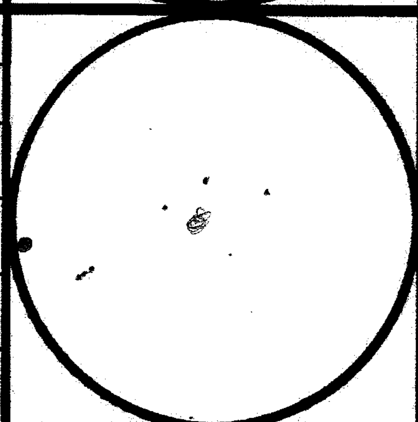
SITE	ACT	SEEING	I −
TRANS	II		
INSTR	22NC	EYEPIECE	10
POWER	240		

#3 17

COMMENTS

SPIRAL LOOKING GLOW NEAR
A DBL STAR

NGC	684
CONST	
DATE	"
TIME	4:10

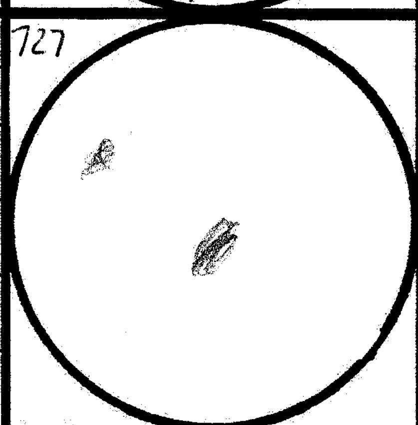


SITE		SEEING	
TRANS			
INSTR		EYEPIECE	
POWER			

COMMENTS

NICE OVAL GLOW W/ AN
EXTENSION AT ONE END
NICE TRIPLE IN FLD

NGC	672 + IC 1727
CONST	
DATE	"
TIME	4:20

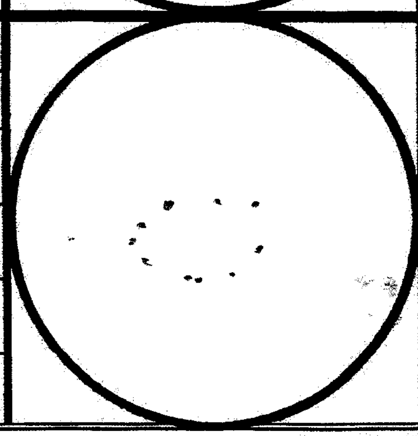


SITE		SEEING	
TRANS			
INSTR		EYEPIECE	
POWER			

COMMENTS

GREAT PAIR, NGC HAS
A BARRISH MIDDLE, IC
LOOKS MORE SPIRAL
IS SMALLER, ~2M FNTR

NGC	Cr 21
CONST	
	Asterism
DATE	"
TIME	4:25



SITE		SEEING	
TRANS			
INSTR		EYEPIECE	
POWER			

COMMENTS

"DAVID'S D" ASTERISM
NEAR THAT PAIR

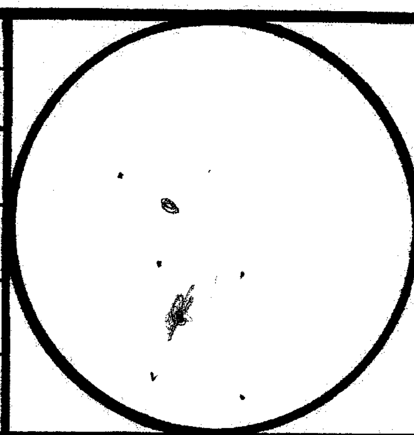
[redacted]

694

HERSCHEL OBSERVATIONS

GO BACK & GET IC 167

NGC	680/678
CONST	
DATE	"
TIME	4:50



SITE	ACT	SEEING II	TRANS II
INSTR	22UC	EYEPIECE 10	POWER 240

COMMENTS

CLUMPY, OVAL, DIM

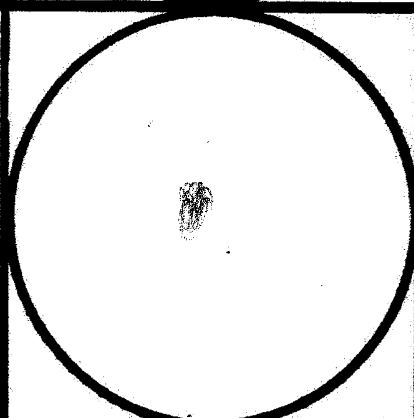
← 680 SMALL BRIGHTER, NOT MUCH DETAIL

← 678 VERY OBVIOUS BAR OVER A LOPSIDED GLOW + LARGE NUC

H320 = 680

H321 = 678

NGC	691
CONST	
DATE	"
TIME	5:00



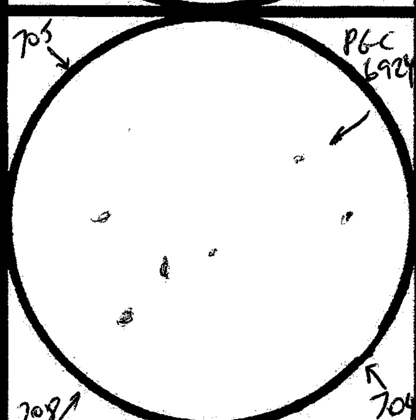
SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

LARGE, OVAL, COMET LIKE APPEARANCE, A REAL BEAUTY - PDBL ON WAY WAS A GREAT SIGNPOST.

H322 PREV SEEN

NGC	705 +
CONST	
	703→
DATE	"
TIME	5:15



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

Y shaped group

LARGE, FAINT, WOW!

700

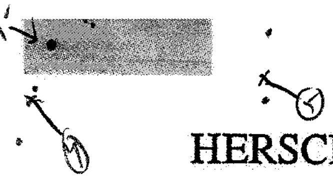
H324 = 705

NGC	
CONST	
DATE	
TIME	

SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

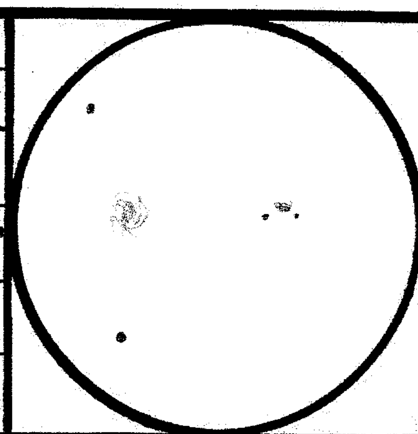
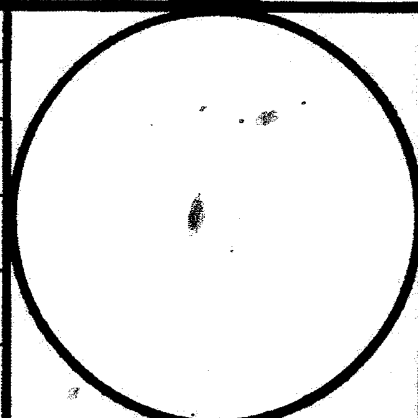
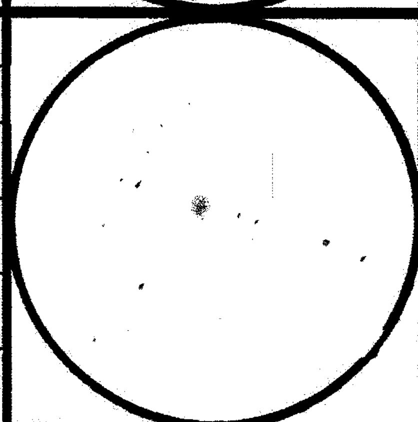
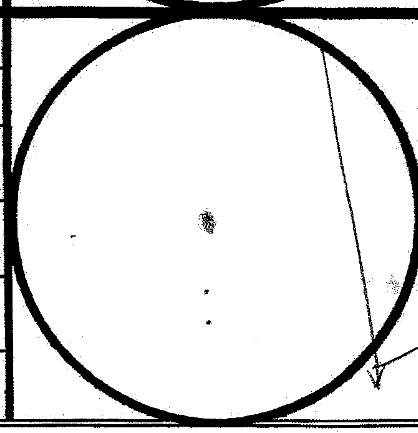
COMMENTS

340 -4°53'



+8

HERSCHEL OBSERVATIONS

NGC 1376 + CONST 2 MASX J03372263 -0459055 DATE 1/21/17 TIME 1:10		SITE ACT · SEEING III · TRANS II INSTR 22 VC · EYEPIECE 10 · POWER 240x COMMENTS TINY NNC ON N1376, W/ HINT OF MOTTLY CLUMPS, ALMOST ARMS, ESP ON S. SIDE OTHER GAL NOT TOO FT, BUT NO DETAIL
NGC 1417+1418 CONST +IC 344 DATE " TIME 1:20		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS BLANK FIELD BT GREAT WIDE LINE OF 3. 1417 ELONG 1418 OVAL, IC SMALL "BLOB"
NGC 1424 CONST DATE " TIME 1:40		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS ELLIP, 2 PAIRS DBL FS POINT TO IT
NGC 1452 CONST DATE TIME 1:50		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS HINT OF EXTNS ON TOP & BTM BUT CAN'T MAKE OUT BAR, AND RING NOT SEEN (7) -20s LED · STILL GREAT!

H3 #57

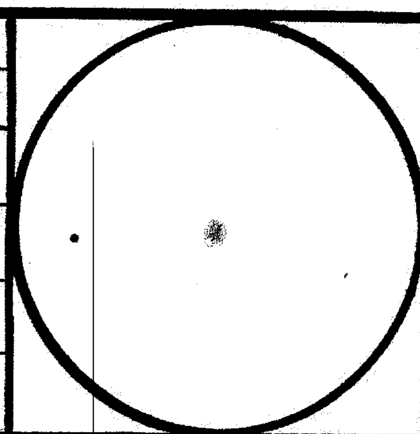
H3 #52 (OLD) + SEEN WITH

SEEN W/ H3 #52

H3 #61

HERSCHEL OBSERVATIONS

NGC	1440
CONST	
DATE	1/21/17
TIME	2:00



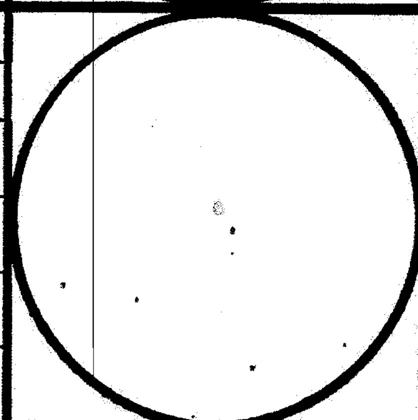
SITE	AGT	SEEING III	TRANS II
INSTR	22 VC	EYEPIECE 10	POWER 240x

COMMENTS

Looks like ellip type Gal

H3 A62 (OLD) & Seen w/ #61

NGC	1455
CONST	
DATE	"
TIME	2:10



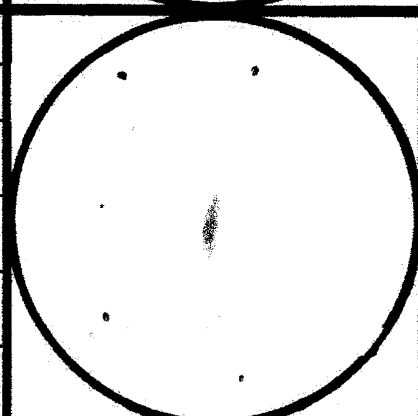
SITE	↓	SEEING ↓	TRANS
INSTR	↓	EYEPIECE	POWER

COMMENTS

SMALL BUT SEEN

Seen w/ H3 #61

NGC	1461
CONST	
DATE	"
TIME	2:25



SITE	↓	SEEING ↓	TRANS
INSTR	↓	EYEPIECE	POWER

COMMENTS

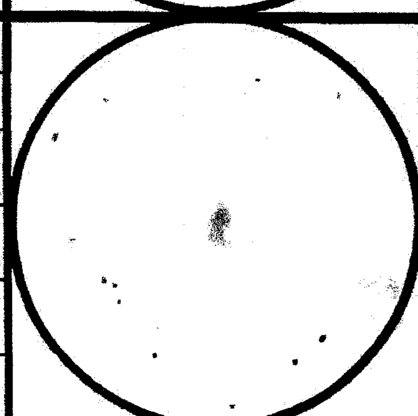
ELONG, SL. LENTICULAR

IN A QUAD OF FS

NO DETAIL

H3 #63

NGC	1638
CONST	
DATE	"
TIME	2:35



SITE	↓	SEEING ↓	TRANS
INSTR	↓	EYEPIECE	POWER

COMMENTS

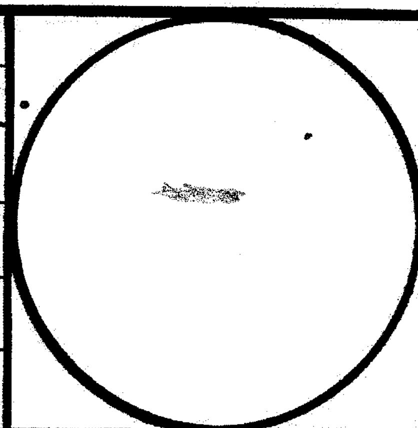
HINT OF SWEEPING

STUBBY ARMS

H3 #65

HERSCHEL OBSERVATIONS

NGC	1620
CONST	
DATE	1/21/17
TIME	2:50

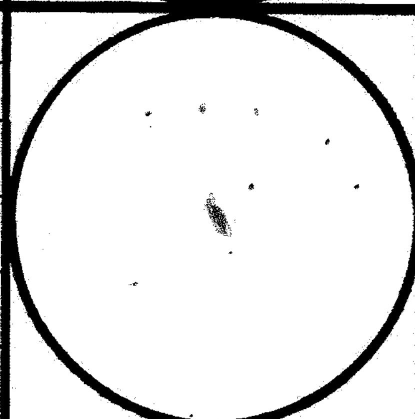


SITE	SEEING	TRANS
ACG	III	II
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

COMMENTS
BEAUTIFUL! GRAINY, SOFT STARS ON EDGE & END
SWOOSH ON S SIDE

#3 #66

NGC	1589
CONST	
DATE	"
TIME	3:00

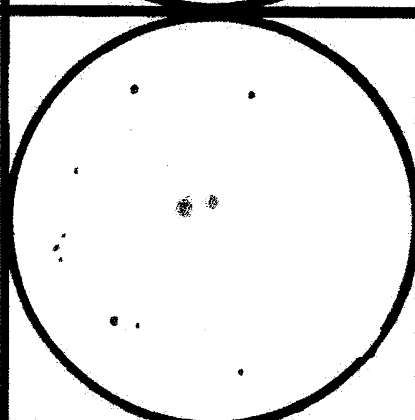


SITE	SEEING	TRANS
↓		
INSTR	**EYEPIECE**	**POWER**
↓	↓	

COMMENTS
ALSO LONG, ON SIDE
MORE BENT

#3 #67

NGC	1587/8
CONST	
DATE	"
TIME	3:10

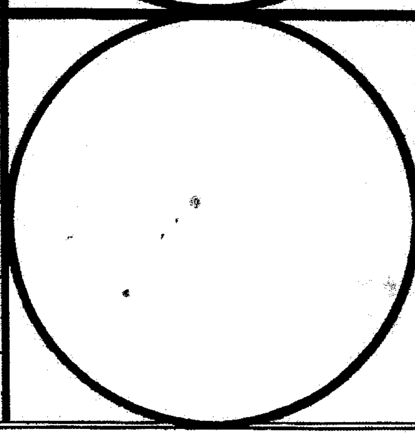


SITE	SEEING	TRANS
↓		
INSTR	**EYEPIECE**	**POWER**
↓	↓	

COMMENTS
NICE PAIR NEXT TO
EACH OTHER — NO
INTERACTION SEEN

SEEN W/ #3 #67

NGC	1608
CONST	
DATE	"
TIME	3:20



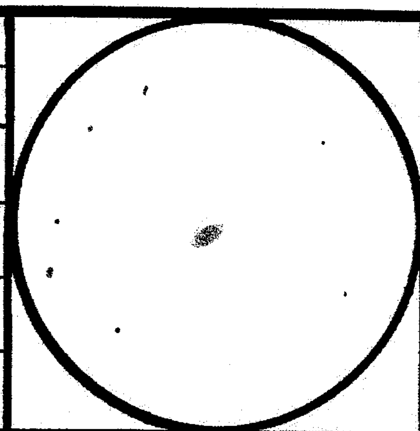
SITE	SEEING	TRANS
↓		
INSTR	**EYEPIECE**	**POWER**
↓	↓	

COMMENTS
FAINT W/ LINE OF ST

SEEN W/ #3 #67

HERSCHEL OBSERVATIONS

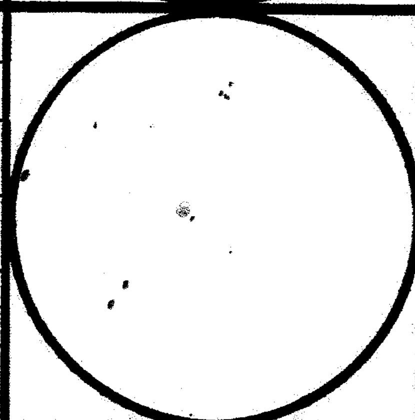
NGC 1659
CONST
DATE 1/21/17
TIME 3:30



SITE ACG | SEEING II | TRANS III
INSTR 22ULC | EYEPIECE 10 | POWER 240
COMMENTS
LOVELY OVAL, SOME
MOTTLE

H3 #68

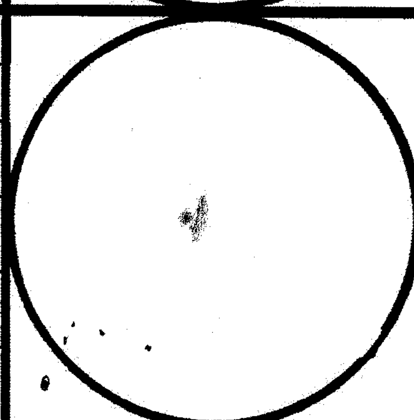
NGC 1656
CONST
DATE "
TIME 3:40



SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER
COMMENTS
SMALL ROUND W/ BRIGHT
PT (DBLS, D)

SEEN W/ H3 #68

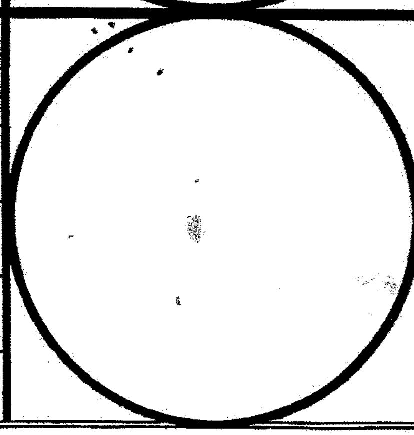
NGC 1888/9
CONST
DATE "
TIME 3:50



SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER
COMMENTS
SPECTACULAR PAIR
WITH LENTICULAR
"MOTHER SHIP" & ELLIP
"ON" IT

H3 #69 & SEEN W/ #69

NGC 2543
CONST
DATE "
TIME 4:05

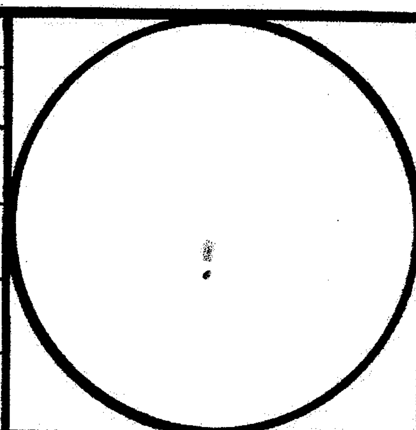


SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER
COMMENTS
LOVELY, A BIT DIM

H3 #72

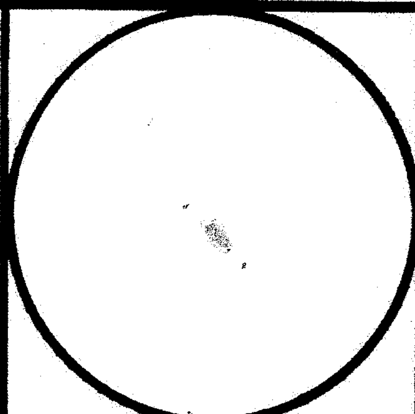
HERSCHEL OBSERVATIONS

NGC 2545
CONST
DATE 1/21/17
TIME 4:18



SITE ACT | SEEING II | TRANS II
INSTR 22VC | EYEPIECE 10 | POWER 240
COMMENTS
MCG, SMALL, NEAR F.S. H3 #73

NGC 2770
CONST
DATE 11
TIME 4:30



SITE | SEEING | TRANS
INSTR ↓ | EYEPIECE ↓ | POWER
COMMENTS H3 #83
LARGER, NOT MUCH DETAIL,
STAR ON EDGE & F.S.'s.

NGC
CONST
DATE
TIME

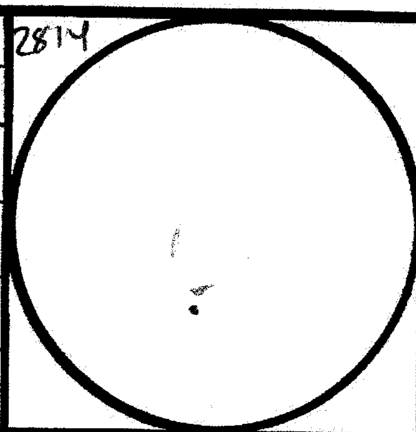
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC
CONST
DATE
TIME

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

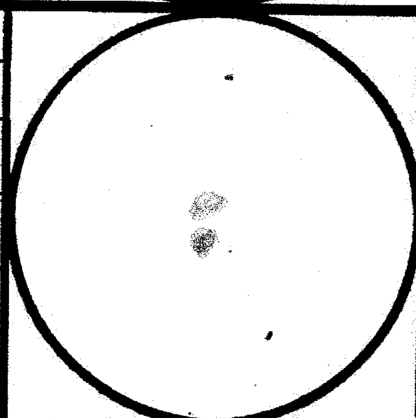
HERSCHEL OBSERVATIONS

NGC 2820+2814	SITE ACT		SEEING II	TRANS II-
CONST	INSTR 22UC		EYEPIECE 10	POWER 240x
DATE 3/1/17	COMMENTS			
TIME 2:00 UT	GREAT PAIR W/ STAR IN FLD, ONE FLAT, THE OTHER 3x1, ODD			



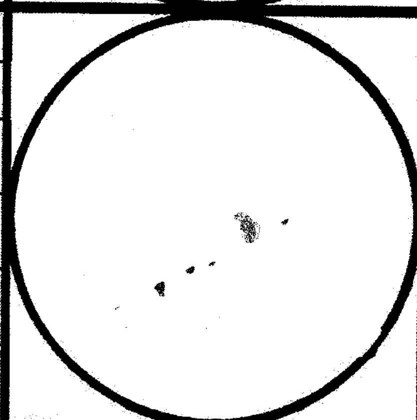
H3 86

NGC 2872+4	SITE ↓		SEEING ↓	TRANS
CONST	INSTR ↓		EYEPIECE ↓	POWER
DATE "	COMMENTS			
TIME 2:10	ANOTHER PAIR, WHY NOT IN 2 IN THE VIEW? ELLIP & OVAL (SPIRAL?)			



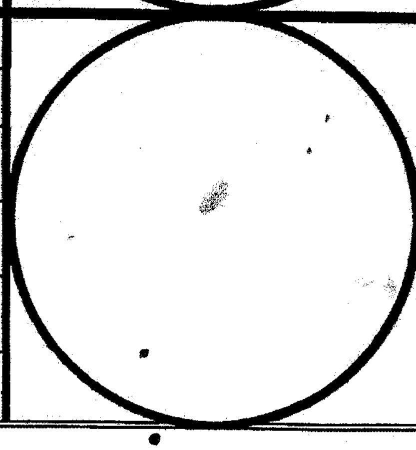
H3 87& 88

NGC 2998	SITE ↓		SEEING ↓	TRANS
CONST	INSTR ↓		EYEPIECE ↓	POWER
DATE "	COMMENTS			
TIME 2:25	STRANGE RUFF ON 1 SIDE			



H3 98

NGC 3478	SITE ↓		SEEING ↓	TRANS
CONST	INSTR ↓		EYEPIECE ↓	POWER
DATE "	COMMENTS			
TIME 2:40	OVAL, TIPPED SPIRAL			

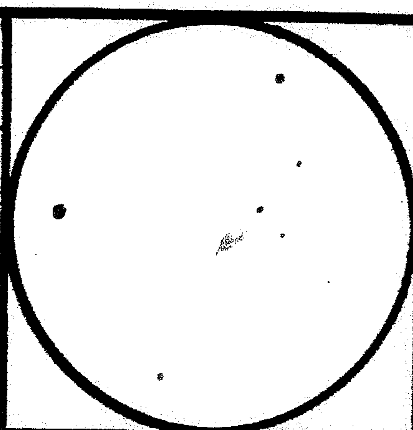


H3 111

FRI →) new moon 9:28pm IX (4) ! y... (5) : _250 ... 2?76

HERSCHEL OBSERVATIONS

NGC	3888
CONST	
DATE	5/27/17
TIME	2:35



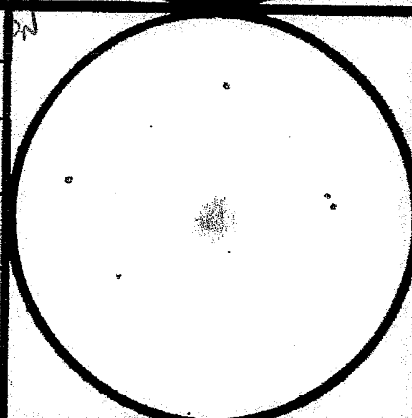
SITE	ACT	SEEING III	TRANS III
INSTR	22UC	EYEPIECE 10	POWER 240

COMMENTS
FT, ELONG
VERIFIED 5/29/17
S=I - S=I, STILL NOT TOO BRIGHT?

SW · ? 2?16 fast ... 100x

H3 #140

NGC	C/2015 JOHNSON
CONST	
DATE	5/29/17
TIME	2:35



SITE	ACT	SEEING I	TRANS I
INSTR	22UC	EYEPIECE 24	POWER 100

COMMENTS
EASILY SEEN IN TWILITE
BUT NO DETAIL - LARGE
COMA

Copy for comets

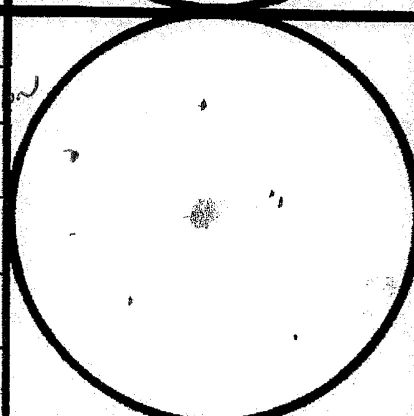
NGC	3956
CONST	
DATE	〃
TIME	2:50

SITE	↓	SEEING	TRANS 〃
INSTR	↓	EYEPIECE	POWER 240

COMMENTS
NICE, LARGE OBLONG
SHAPE, HINT OF GLOW ON
EDGE

H3 #143

NGC	Comet
CONST	C/2015 JOHNSON
DATE	〃
TIME	3:00



SITE	〃	SEEING ↓	TRANS
INSTR	DENNIS 8" DOB	EYEPIECE	POWER

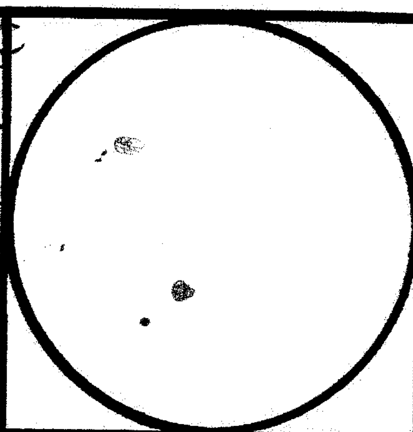
COMMENTS
NO MORE DETAIL

N 055 12 ... 3rd step 3:55 ... pair 19 Leo 12

4/24/17 3:11:45 ← UNY w/2997's NGC

HERSCHEL OBSERVATIONS

NGC 2566 + IC
CONST
DATE 3/1/17
TIME 3:00

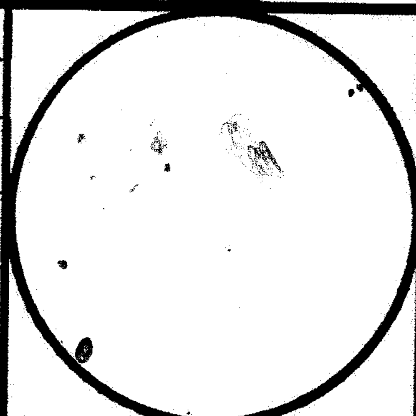


SITE ACT | SEEING II | TRANS I-
INSTR 22UC | EYEPIECE 10 | POWER 240X

COMMENTS
NICE PAIR, ONE BRIGHT ELLIP, ONE FAINTER OVAL W/NUC. HAD MICHAEL CONFIRM - AT FIRST IC WAS SURPRISE & WE THOUGHT IT WAS NGC!

H3 74

NGC 2815
CONST Hya
DATE 4/24/17
TIME 2:50

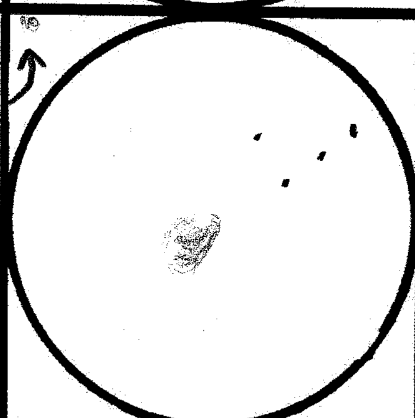


SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE " | POWER "

COMMENTS
← 2815 LG, C core easy, distinct arm + interior on not sure other patch

H3 85

NGC 2997 +
CONST ESO 434-40
DATE "
TIME 3:10

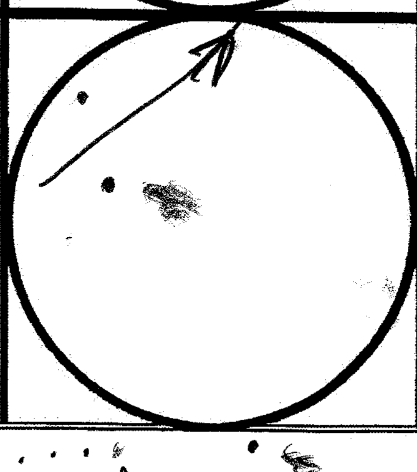


SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER

COMMENTS
HUGE SPIRAL W/ARMS AROUND LARGE, B NUC + SMALL OVAL W/TINY NUC

H3 97

NGC
CONST
DATE "
TIME 3:15



4780

SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER

COMMENTS
3:10:30 UT
← 4781 VERY SUBTLE AREA UNDER BAR, OTHER SIDE BLANKS.
4760 ELLIPTICAL, NO PETALS

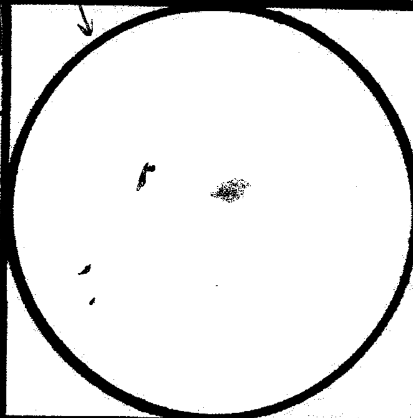
W/ H3 206

82

HERSCHEL OBSERVATIONS

4784

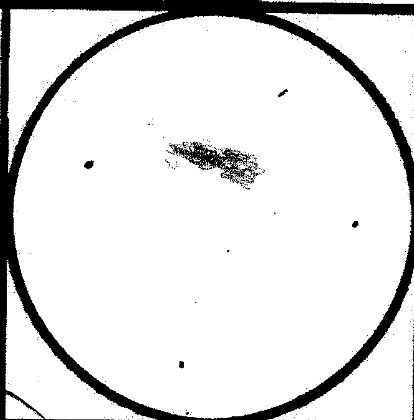
NGC 4784
CONST
DATE 4/24/17
TIME 3:30



SITE Act **SEEING** II **TRANS** II
INSTR 22"C **EYEPIECE** 10 **POWER** 240
COMMENTS
← 4781 Larger, w/
compact N/C, large
glow w/ some mottle

w/
H3
206

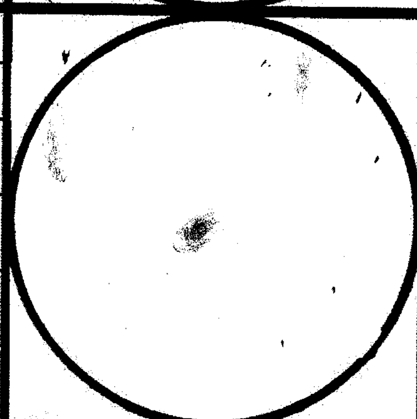
NGC 4700
CONST
DATE "
TIME 3:45



SITE ↓ **SEEING** **TRANS**
INSTR **EYEPIECE** ↓ **POWER**
COMMENTS
Long bar w/ one side

H3
207

NGC 4825
CONST +4820
+4829 →
spiral
flat
DATE "
TIME 4:00

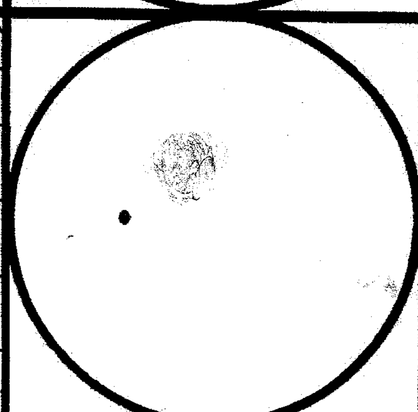


SITE ↓ **SEEING** **TRANS**
INSTR **EYEPIECE** ↓ **POWER**
COMMENTS
↖ 4820 sl oval (np spiral)

← 4825 large ellip w/ glow
around

H3
210
&
w/

NGC 4899
CONST
DATE "
TIME 4:15



SITE ↓ **SEEING** **TRANS**
INSTR **EYEPIECE** ↓ **POWER**
COMMENTS
Lg nuc w/ arms esp. one
side

H3
211

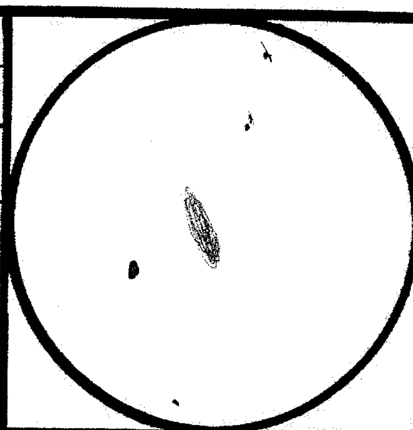
HERSCHEL OBSERVATIONS

NGC 4877

CONST

DATE 4/24/17

TIME 4:30



SITE Act — SEEING II — TRANS II

INSTR 22UC — EYEPIECE 10 — POWER 240

COMMENTS

TIP SPIRAL

H3
212

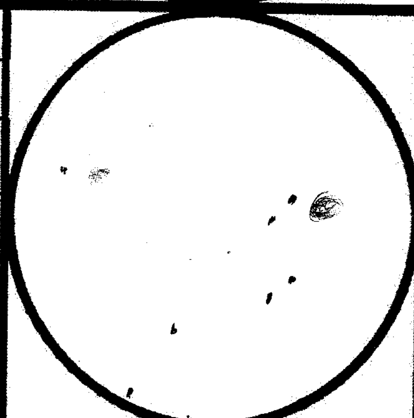
NGC 4902

CONST

4887 →

DATE 〃

TIME 4:45



SITE — SEEING — TRANS

INSTR — EYEPIECE — POWER

COMMENTS

← 4902 LARGE NUC, BRIGHT W SOME ARMS

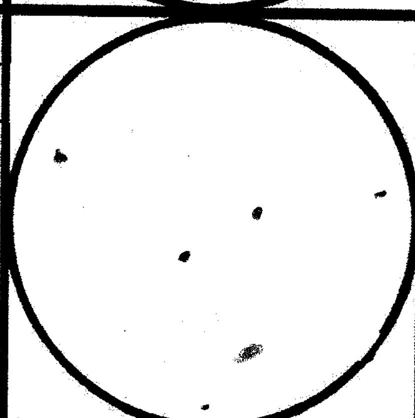
4887 NUC + SM GLOW

NGC 4856

CONST

DATE 〃

TIME 4:55



SITE — SEEING — TRANS

INSTR — EYEPIECE — POWER

COMMENTS

BRIGHT NUC WITH SOME GLOW

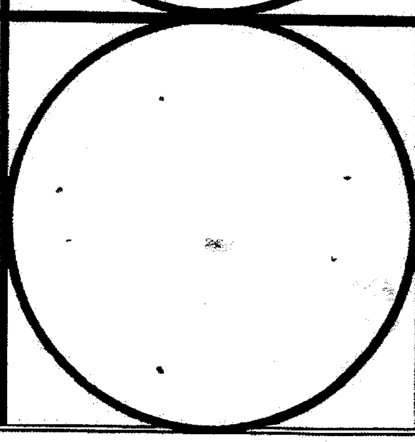
w/212
H3

NGC 2968

CONST

DATE 〃

TIME 5:05



SITE — SEEING — TRANS

INSTR — EYEPIECE — POWER

COMMENTS

← 2964 LARGE NUC, GOOD GLOW

H3
93

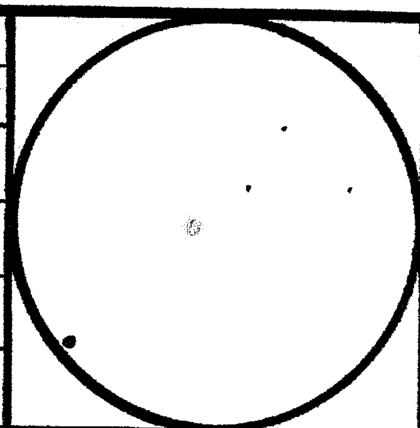
93

MOONSET

red flashing light

HERSCHEL OBSERVATIONS

NGC 3512
CONST
DATE 5/29/17
TIME 4:30

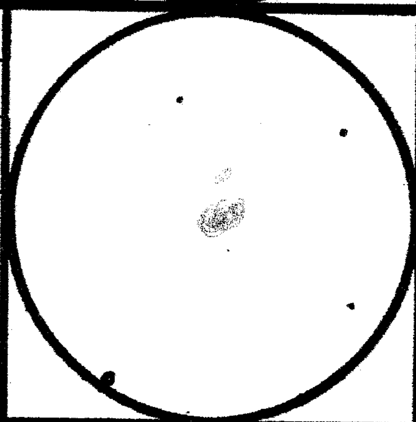


SITE ACT | SEEING I- | TRANS II-
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
FAINT ROUND GLOW
W/ STAR LIKE NUCLEUS

H3 #124

NGC 3614+A
CONST
DATE 〃
TIME 4:35



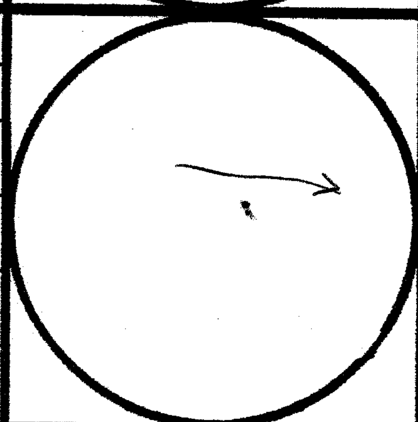
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
←AV=3
LOVELY PAIR, MAIN GALAXY
LOOKS LIKE ASYMMETRICAL
STAR FIELD THAT MESSED
ROTATION! FT. "CHILD"
SEEN BUT NO DETAIL

H3 #126

A SEEN WITH

NGC 3957
CONST
DATE 〃
TIME 4:45

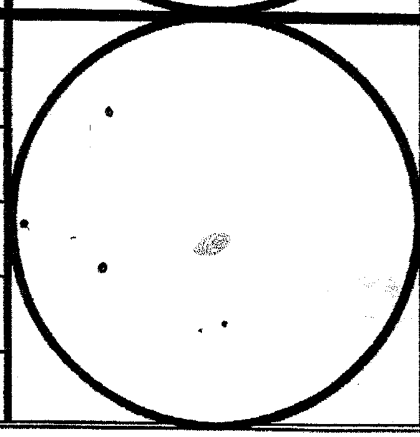


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
4:39 A SAT
"OBL" WITH GLOW ON ONE
SIDE (NOT GREAT)

H3 #144

NGC 4033
CONST
DATE 〃
TIME 4:55



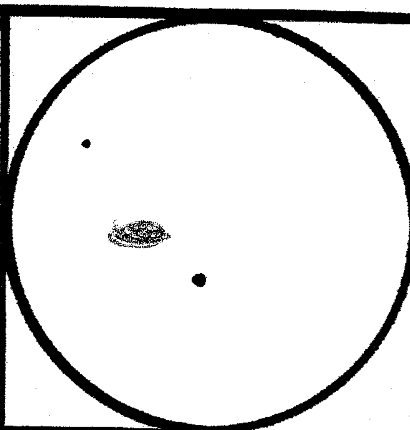
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
OVAL, NO OBVIOUS NUCLEUS
SL. FT., BLANK AREA

H3 #146

HERSCHEL OBSERVATIONS

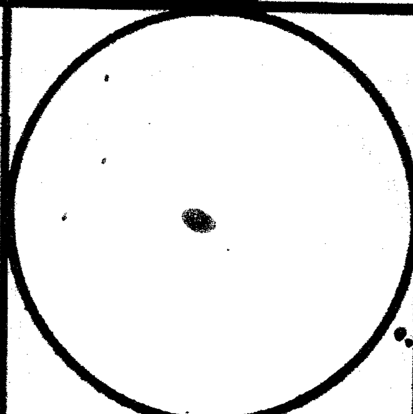
NGC 4462	SITE ACT	SEEING I-	TRANS II-
CONST	INSTR 22UC	EYEPIECE 10	POWER 240
DATE 5/29/17	TIME 5:10		



COMMENTS
NICE EVEN OVAL, SOME
HINT OF ARMS

H3
#178

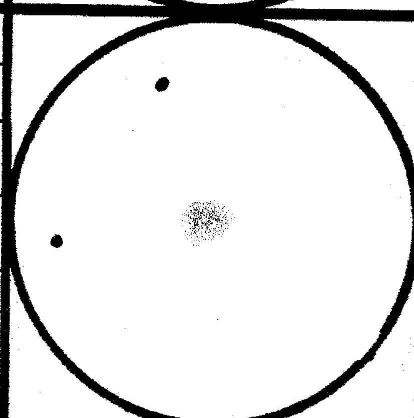
NGC 4457	SITE ↓	SEEING ↓	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "	TIME 5:20		



COMMENTS
OVAL, BRIGHTER, NO DETAIL

H3
#174
[illegible]
@
5:15
[illegible]
UNID SAT

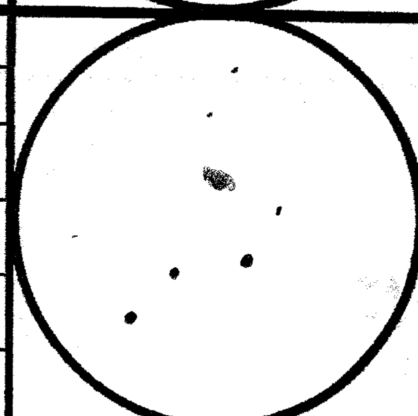
NGC 4442	SITE ↓	SEEING ↓	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "	TIME 5:30		



COMMENTS
LARGE FTR GLOW, ROUND

H3
#175

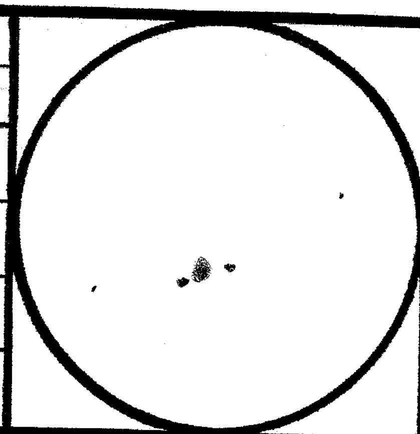
NGC 4378	SITE ↓	SEEING ↓	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "	TIME 5:40		



COMMENTS
"SATURN" SHAPE
NICE FS!
←

H3
#176

NGC	2985
CONST	
DATE	5/29/11
TIME	3:10 UT



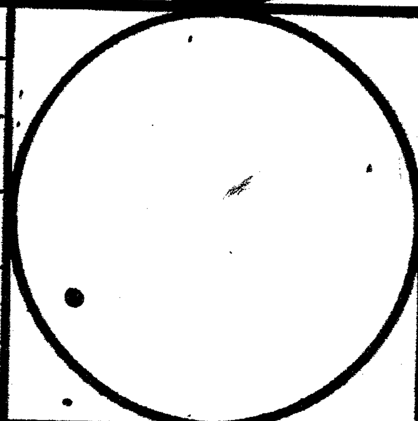
SITE	ACT	SEEING	I-	TRANS	III
INSTR	22" UC	EYEPIECE	10	POWER	240

COMMENTS

ALL NUC - 2 STARS FLANK IT

H3
#92

NGC	3510
CONST	
DATE	"
TIME	3:30 UT



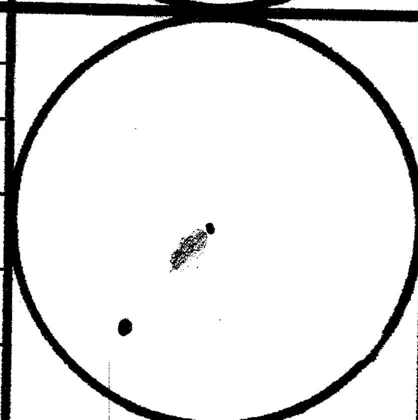
SITE	↓	SEEING	I-	TRANS	II-
INSTR		EYEPIECE	"	POWER	"

COMMENTS

V. ELONG.
RECHECKED @ 4:00 UT - CONFIRMED
SLIGHT LOPSIDED OR "V"
SHAPE

H3
#123

NGC	3320
CONST	
DATE	"
TIME	4:10



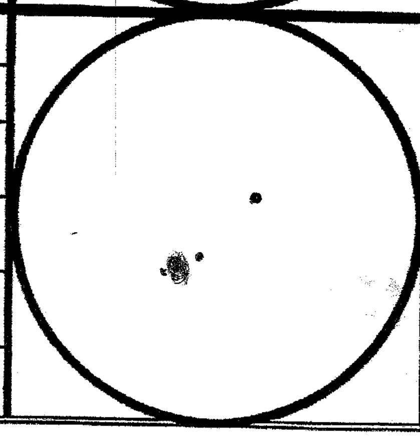
SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

GREAT BAR SHAPE BETWEEN
2 FS, NICE & BRIGHT

H3
#112

NGC	3455
CONST	
DATE	"
TIME	4:20



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

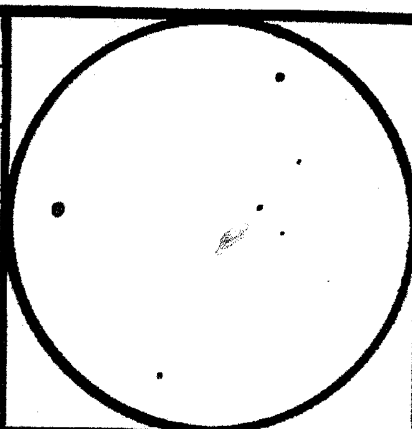
COMMENTS

ROUND, SOME DETAIL ON
EDGES (MOTTLY)

H3
#118

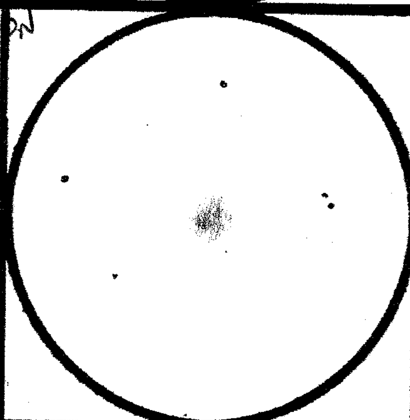
FRI →) new moon 9:28pm 1X (4) ! ymr (5) : _250 NROZ 276

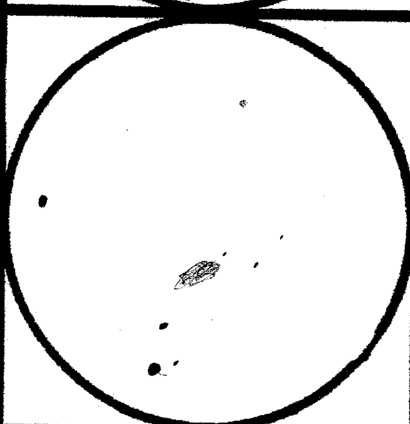
HERSCHEL OBSERVATIONS

NGC 3885		SITE ACT	SEEING III TRANS III
CONST		INSTR 22UC	EYEPIECE 10 POWER 240
DATE 5/27/17		COMMENTS FT, ELONG VERIFIED 5/29/17 C=I- S=I, STILL NOT TOO BRIGHT	
TIME 2:35			

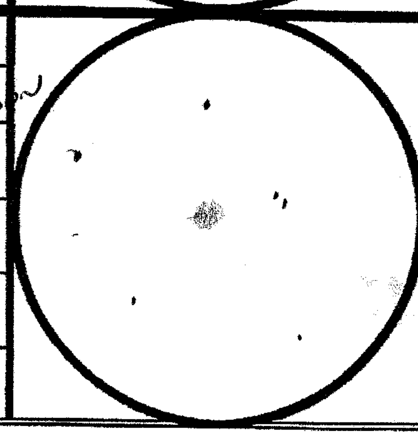
SW 9 2816 fast SW 100X

H3 #140

C/2015 JOHNSON		SITE ACT	SEEING I TRANS I
CONST		INSTR 22UC	EYEPIECE 24 POWER 100
DATE 5/29/17		COMMENTS EASILY SEEN IN TWILITE BUT NO DETAIL - LARGE COMA	
TIME 2:35			

NGC 3956		SITE ↓	SEEING TRANS "
CONST		INSTR	EYEPIECE POWER 240
DATE "		COMMENTS NICE, LARGE OBLONG SHAPE, HINT OF GLOW ON EDGE	
TIME 2:50			

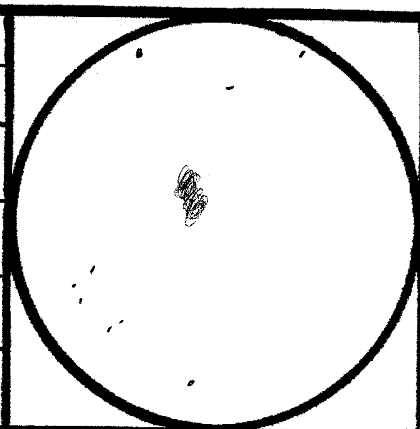
H3 #143

NGC Comet		SITE "	SEEING ↓ TRANS
CONST C/2015 JOHNSON		INSTR DENNIS 8" DOB	EYEPIECE POWER
DATE "		COMMENTS NO MORE DETAIL	
TIME 3:00			

90

HERSCHEL OBSERVATIONS

NGC	4782/3
CONST	
DATE	6/20/17
TIME	2:30UT

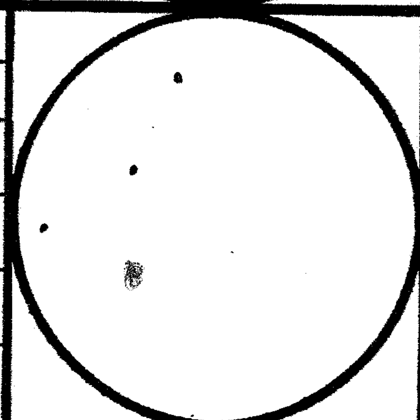


SITE	ACT	SEEING III	TRANS II	
INSTR	22VC	EYEPIECE 10	POWER 240	

COMMENTS
"DOUBLE LOBE" – TOUCHING W/ 1 NUC SEEN
4792 & 94 ALSO SEEN NEARBY

H3 #208 + #209

NGC	4593
CONST	
DATE	"
TIME	2:40UT

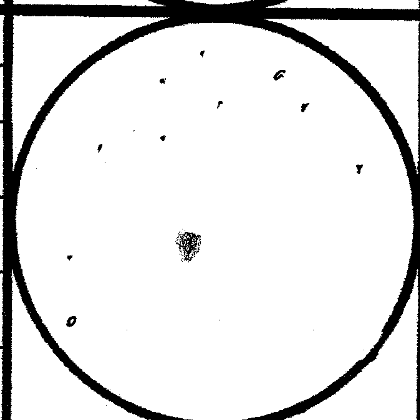


SITE	↓	SEEING ↓	TRANS	
INSTR		EYEPIECE	POWER	

COMMENTS
SMALL OVAL GLOW, NO DETAIL

H3 #191

NGC	4602
CONST	
DATE	"
TIME	2:45

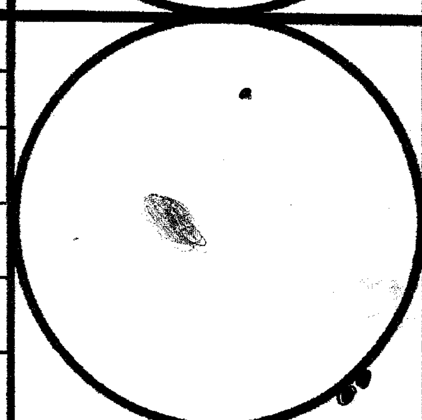


SITE	↓	SEEING ↓	TRANS	
INSTR		EYEPIECE	POWER	

COMMENTS
SMALL ROUND GLOW W/ BULGE

H3 #192

NGC	4632
CONST	
DATE	"
TIME	2:55



SITE	↓	SEEING ↓	TRANS	
INSTR		EYEPIECE	POWER	

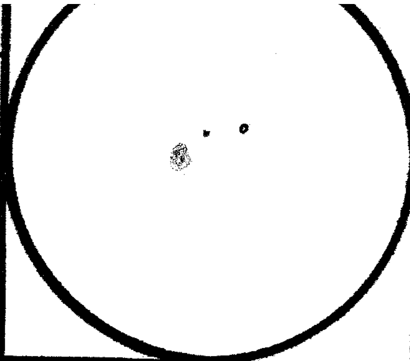
COMMENTS
TIPPED, W/ NUC & OVAL GLOW, NEAR GREAT DBL STAR

H3 #194

CONST

DATE 6/20/17

TIME 3:00



INSTR 22 UC | EYEPIECE 10 | POWER 240

COMMENTS

ROUND GLOW, STELLAR NUC

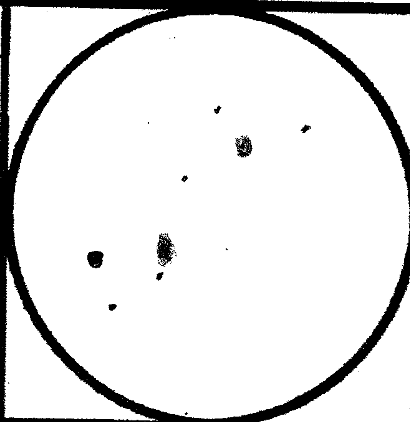
#3
#195

NGC 4658

CONST + 4663

DATE "

TIME 3:10



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

GREAT DUO, BOTH BRIGHT
4663 ROUND GLOW

← 4658 LARGE NUC, SHAPE
& SOME DETAIL

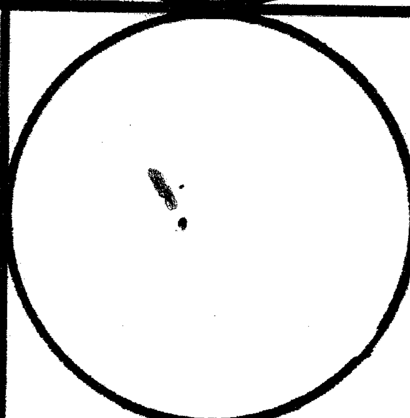
#3
#197
+
SEEN W/

NGC 4684

CONST

DATE "

TIME 3:15



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

2 LOBES? - NO, FS ON
EDGE

EXCELLENT, NEARLY FLAT

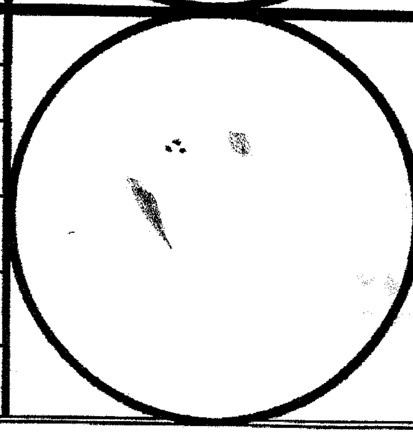
#3
#198

NGC 4666 + 4668

CONST

DATE "

TIME 3:25



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

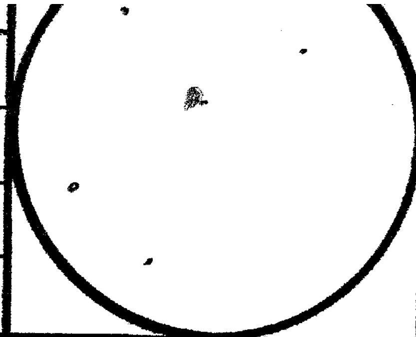
COMMENTS

← ~~DIM~~, ONE "SPOT" - NUC?

← GREAT ELONG, W/CENTRAL BULGE

SEEN
W/
#195

INSTR	EYEPIECE	POWER
22UC	10	240

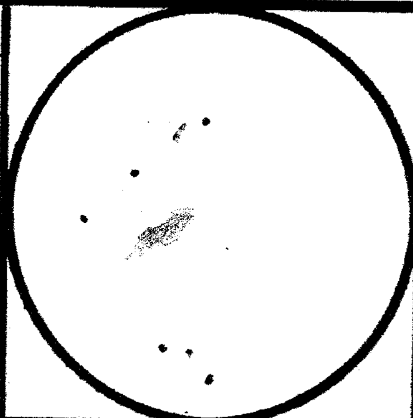


COMMENTS
OVAL GLOW W/FS..

DATE 6/20/17
TIME 3:35

SEEN W/ #3 #198

NGC 4771
CONST



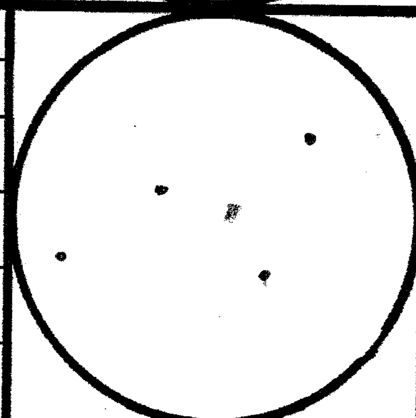
SITE
INSTR
SEEING
TRANS
EYEPIECE
POWER

COMMENTS
LG, UNEVEN GLOW W/MOTTLY DETAIL

DATE "
TIME 3:40

#3 #203

NGC 4877
CONST



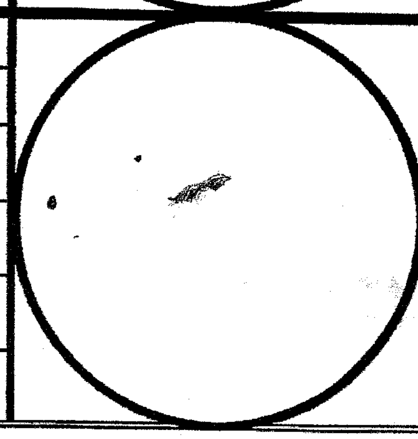
SITE
INSTR
SEEING
TRANS
EYEPIECE
POWER

COMMENTS
SMALL ROUND SPOT

DATE "
TIME 3:45

#3 #212

NGC 4808
CONST



SITE
INSTR
SEEING
TRANS
EYEPIECE
POWER

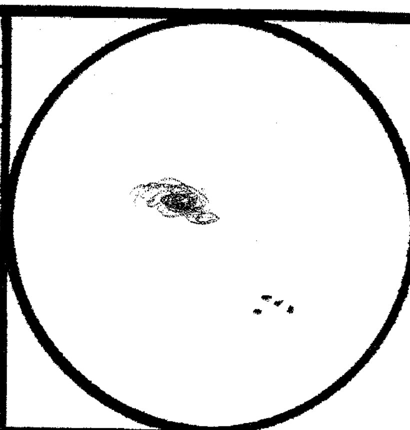
COMMENTS
ELONG, NICE DETAIL, TWO BRIGHTER SPOTS, A FAP & UNEVEN.

DATE "
TIME 3:55

#3 #213

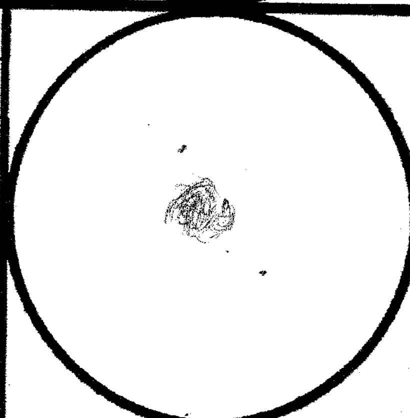
HERSCHEL OBSERVATIONS

NGC	4951
CONST	
DATE	6/20/17
TIME	4:00
SITE	ACT
INSTR	22UC
SEEING	III
TRANS	II
EYEPIECE	10
POWER	240
COMMENTS	LARGE, ARMS, LARGE NUC



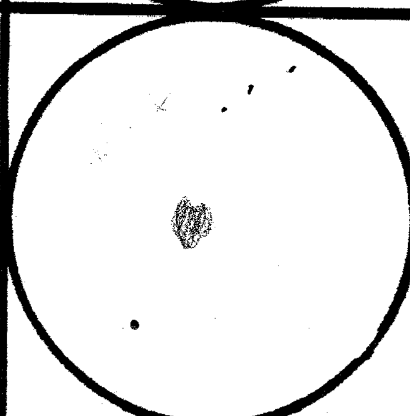
#3
#222

NGC	4775
CONST	
DATE	〃
TIME	4:10
SITE	↓
INSTR	
SEEING	
TRANS	
EYEPIECE	↓
POWER	
COMMENTS	EVEN LARGER FACE ON W/2 ARMS SEEN



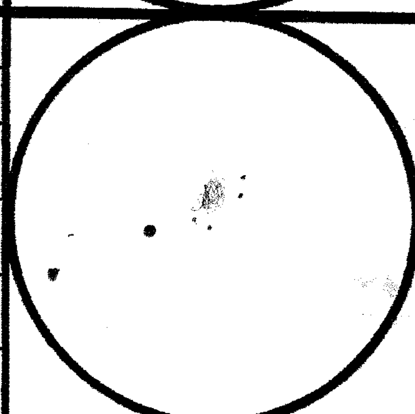
#3
#223

NGC	4790
CONST	
DATE	〃
TIME	4:20
SITE	↓
INSTR	
SEEING	
TRANS	
EYEPIECE	↓
POWER	
COMMENTS	UNEVEN OVAL GLOW



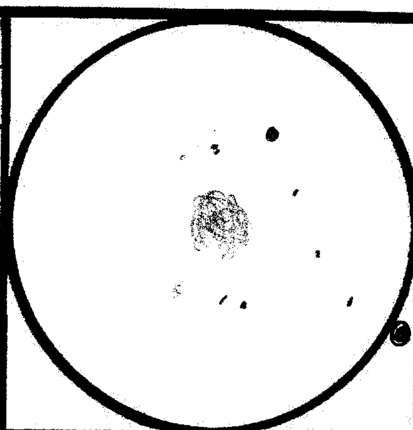
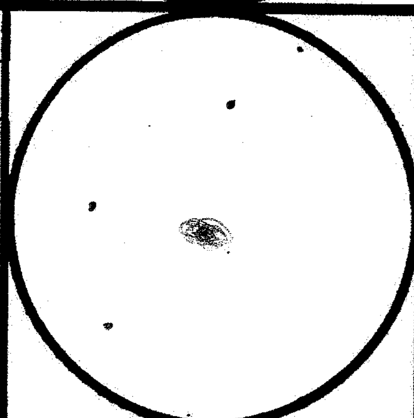
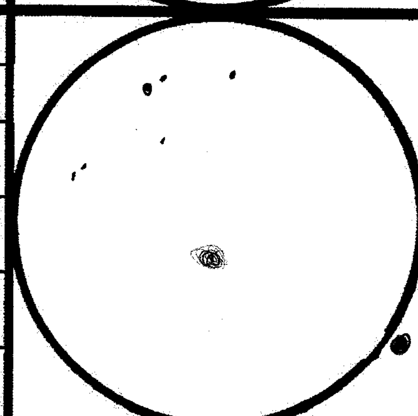
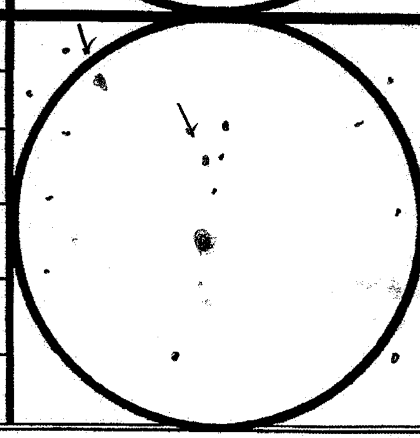
#3
#206

NGC	5015
CONST	
DATE	〃
TIME	4:30
SITE	↓
INSTR	
SEEING	
TRANS	
EYEPIECE	↓
POWER	
COMMENTS	FT ROUND GLOW W/SOME MOTTLING



#3
#225

HERSCHEL OBSERVATIONS

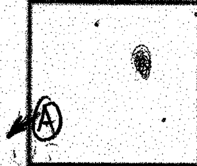
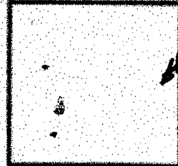
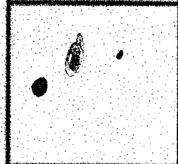
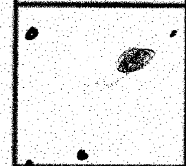
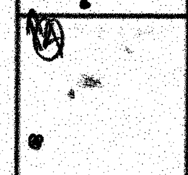
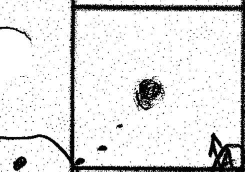
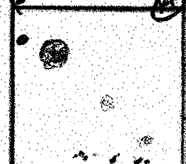
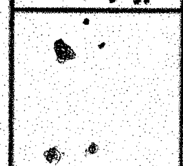
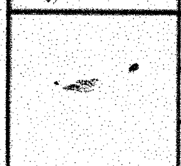
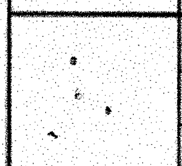
NGC 5085 CONST DATE 6/20/17 TIME 4:35		SITE ACT · SEEING III · TRANS II- INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS LARGE FACE ON, COMPACT NUC
NGC 5101 CONST DATE " TIME 4:45		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS OVAL, LARGE NUC
NGC 5078 CONST DATE " TIME 4:50		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS SMALL & BRIGHT
NGC 5328 CONST DATE " TIME 5:00		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS 2 FB – 5330 & ESO 445-70 5328 BRIGHT OVAL EVEN GLOW

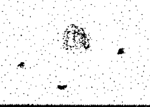
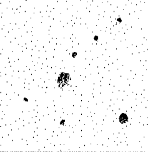
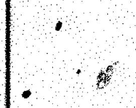
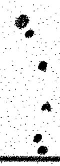
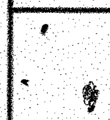
H3 #228

H3 #229

SEEN W/ 229

H3 #242

OBJECT	DATE	TIME	POWER	SEEING	INSTRUMENT	TYPE F/	NOTES
	6/20/17	5:10	240	II/C=II	22 UC	F/4.2	4017 OVAL, LG NUC H3 #152
		5:15					4016 SMALL GLOW SEEN W/152
		5:25					4421 LG OVAL W/COMPACT NUC NEXT TO FS H3 #170
		5:30					4419 LG OVAL SEEN W/170
		5:40					4396 MED. OVAL GLOW, NO DETAIL SEEN W/170
		5:45					4406 ROUND, BRIGHT SEEN W/159 &160
		5:55					4474/68/59 ← B N, SOME TIGHT MOTTLE/ARMS? ← GLOW, ROUND & DIM ← ROUND, SOME DETAIL H3 #171 & SEEN W/S
		6:00					4377/73/79 OBLONG, BRIGHT ROUND, MED ROUND, SMALL H3 #172 & SEEN W/S
		6:10					4532 ELONG, EVEN GLOW H3 #181
		6:15					4543 very faint small glow SEEN W/181

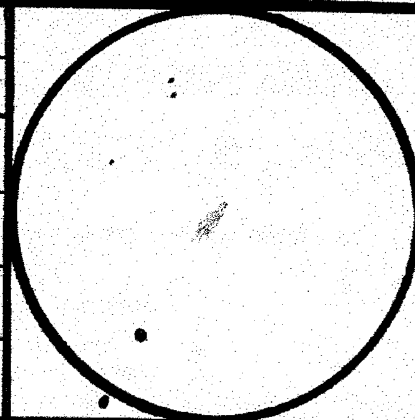
OBJECT	DATE	TIME	POWER	SEEING	INSTRUMENT:	TYPE F/	NOTES
	6/20/17	6:20	240	II / C II	22 VC	F/4.2	4580 DIM OVAL GLOW H3 #182
		6:25				F/	4503 ROUND, SMALL H3 #187
		6:35				F/	4623 DIM, ELONG A BIT H3 #193
		6:40				F/	4612 BRIGHT, ELLIP H3 #192
		6:50				F/	5757 ROUND W/ BRIGHT NUC & FS ON EDGE H3 #268
						F/	
						F/	
						F/	
						F/	
						F/	

LATE LAST GREEN NITE (6/20/17) METEOR W/SPARKS

2 1:50 UT

OBS **HERSCHEL OBSERVATIONS**

NGC	5073
CONST	
DATE	6/21/17
TIME	2:40UT



SITE	SEEING	TRANS
ACT	III	II
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

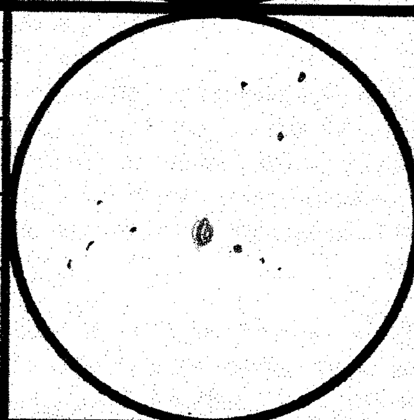
COMMENTS

PL, FT NO DETAIL

PERHAPS SL. THICKER ON EAST?

H3 #227

NGC	5757
CONST	
DATE	"
TIME	2:50UT



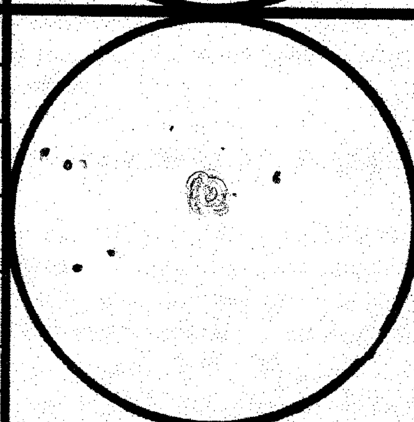
SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

CONFIRMING LAST NIGHT

H3 #268

NGC	5324
CONST	
DATE	"
TIME	2:55UT



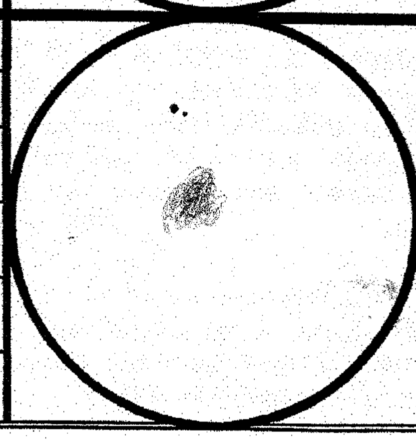
SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

SUBTLE FACE-ON W/ SOME HINT OF ARMS

H3 #241

NGC	5334
CONST	
DATE	"
TIME	3:05

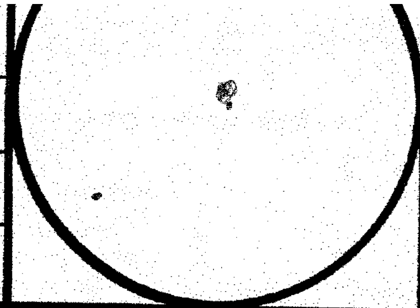


SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

EF, L, SP, BAR POSSIBLE

H3 #243



COMMENTS
ROUND GLOW W/ FS

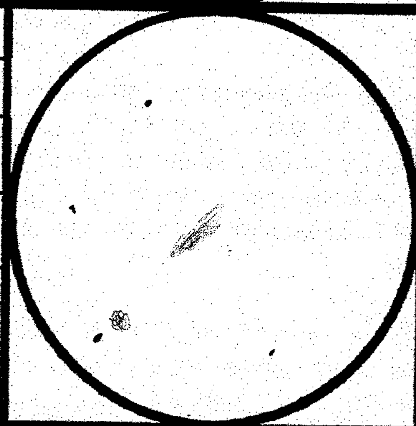
SEEN W/ H3 #243

DATE 11

TIME 3:15

NGC 4634

CONST



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS
ELONG, FLARES ON ONE SIDE

← 4633 FT. ROUND

H3 #196

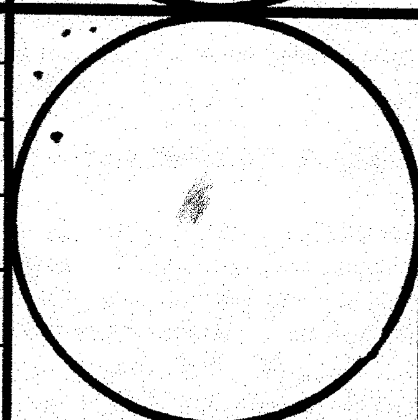
SEEN W/

DATE 11

TIME 3:20

NGC 5300

CONST



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS
FAINT, LARGE, OVAL

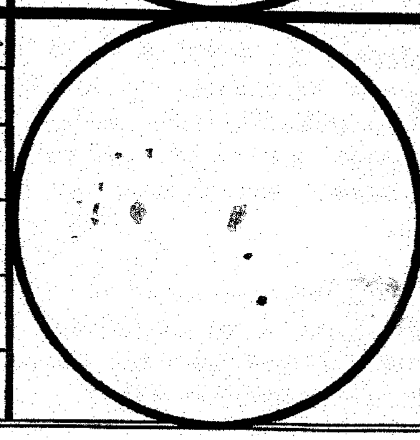
H3 #236

DATE 11

TIME 3:30

NGC 5898 + 5903

CONST



SITE ↓ | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS
GREAT PAIR, BOTH MED, BRIGHT GLOW

H3 #271 & #272

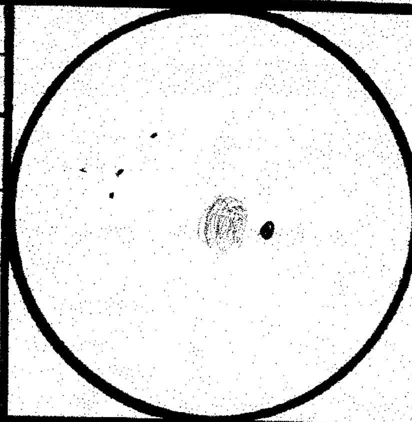
DATE 11

TIME 3:40

99

HERSCHEL OBSERVATIONS

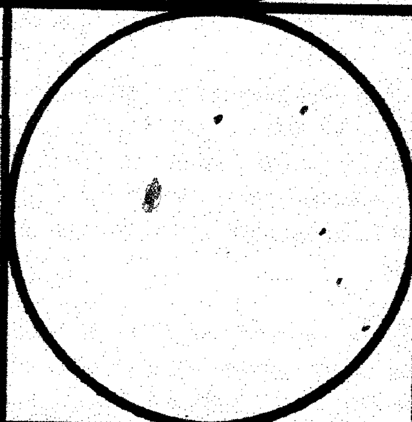
NGC	5888	SITE	ACT
CONST		SEEING	III
DATE	11	TRANS	II
TIME	3:50	INSTR	22UC
		EYEPIECE	10
		POWER	240



COMMENTS
VL, VF FACE-ON SUSPECTED

H3 #270

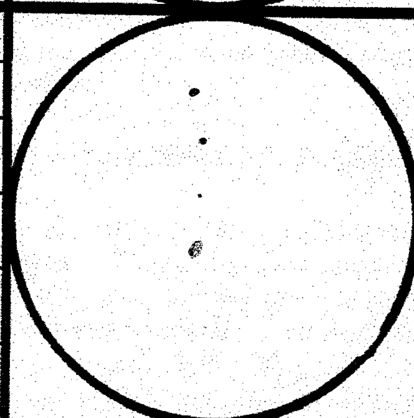
NGC	3973	SITE	"
CONST		SEEING	"
DATE	"	TRANS	"
TIME	4:00	INSTR	"
		EYEPIECE	"
		POWER	"



COMMENTS
SMALL, NVC STANDS OUT

SEEN W/H3 148

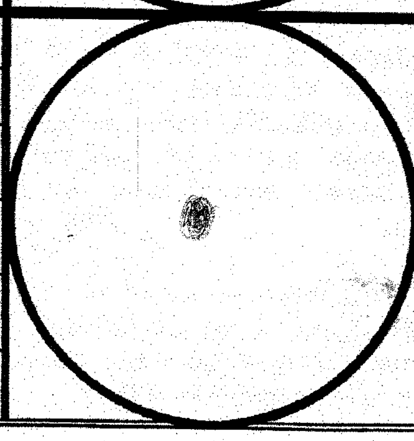
NGC	4116	SITE	"
CONST		SEEING	"
DATE	"	TRANS	"
TIME	4:05	INSTR	"
		EYEPIECE	"
		POWER	"



COMMENTS
VS & VF, NO DETAIL

SEEN W/H3 153

NGC	4374	SITE	"
CONST		SEEING	"
DATE	"	TRANS	"
TIME	4:10	INSTR	"
		EYEPIECE	"
		POWER	"

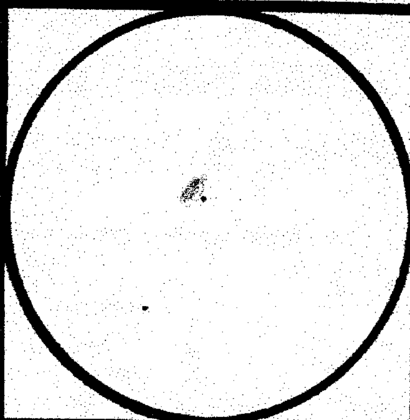


COMMENTS
OVAL, SOME MOTTLING

SEEN W/H3 159

HERSCHEL OBSERVATIONS

NGC 5729
CONST
DATE 6/21/17
TIME 4:15

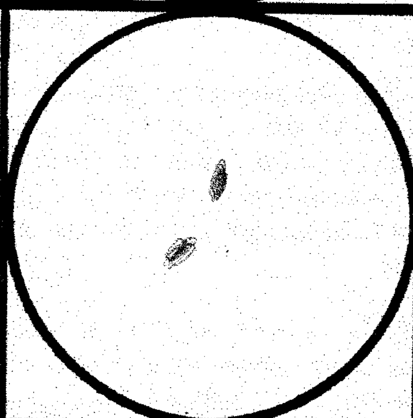


SITE ACT | SEEING III | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
OVAL, FS ON EDGE

H3
#264

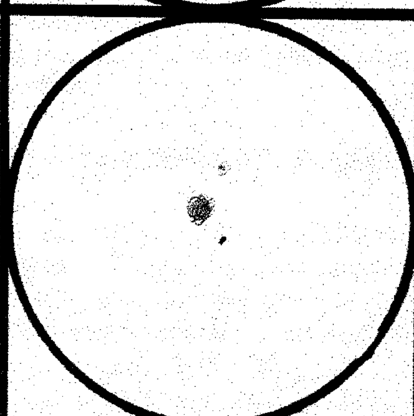
NGC M84/86
CONST
DATE "
TIME 4:20



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
AMAZING PAIR OF "EYES"
← OVAL, NO NUC M84
← OVAL, COMPACT NUC & M86
NOT 4387

NGC 4406+A
CONST
DATE "
TIME 4:30

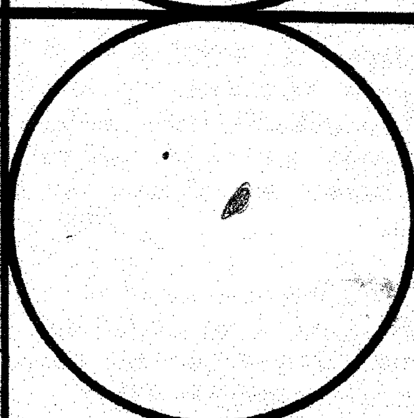


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
← A JUST SEEN
← ROUND & GLOW FAIRLY EVEN

SEEN
W/H3
#160

NGC 4425
CONST
DATE "
TIME 4:35



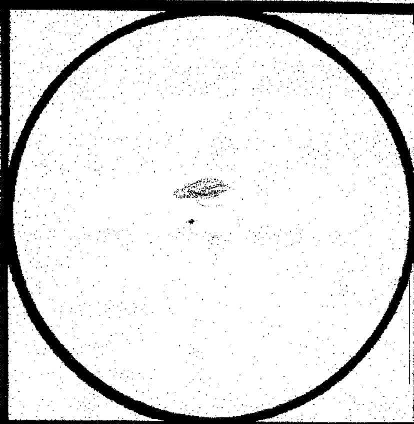
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS TOO FD
THOUGHT TO BE BIG BE 4425
BUT THIS IS IT!

H3
160
REPEAT

HERSCHEL OBSERVATIONS

NGC	3769+A
CONST	
DATE	6/21/17
TIME	4:45



SITE	SEEING	TRANS
ACT	III	II
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

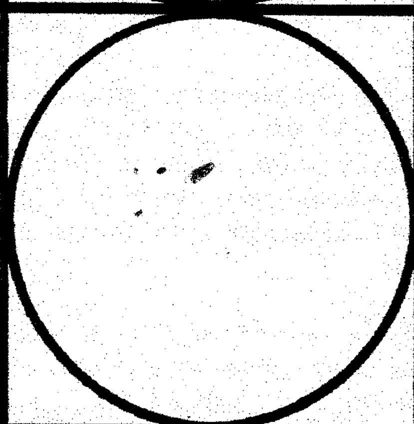
COMMENTS

← 3769 OVAL, ELONG

← 3769A VVF (AV=3)

H3 #133 REPEAT + SEEN w/

NGC	4521
CONST	
DATE	"
TIME	4:55



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

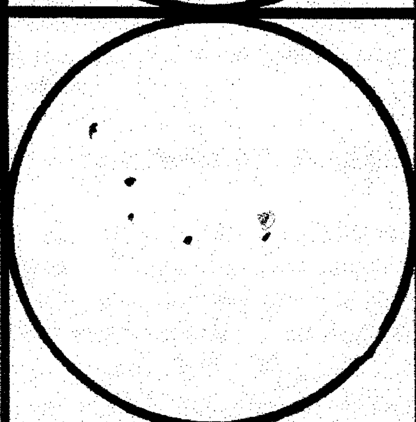
COMMENTS

NICE SMALL BRIGHT

OVAL

H3 #180

NGC	4481
CONST	
DATE	"
TIME	5:00



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

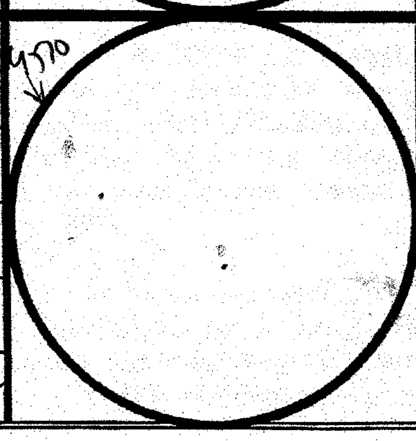
COMMENTS

TINY ROUND W/ MC SEEN

SEEN w/180

NGC	
CONST	
DATE	"
TIME	5:10 4512

4570



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

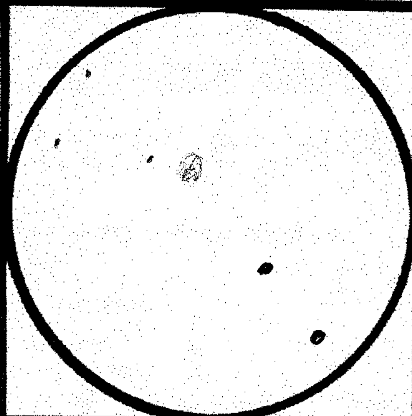
ALL VERY FAINT

X4517

SEEN w/180

HERSCHEL OBSERVATIONS

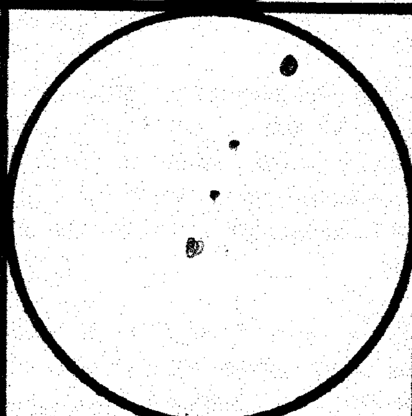
NGC 4545
CONST
DATE "
TIME 5:15



SITE ACT | SEEING III | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS
ROUND GLOW

SEEN W/ H3 #180

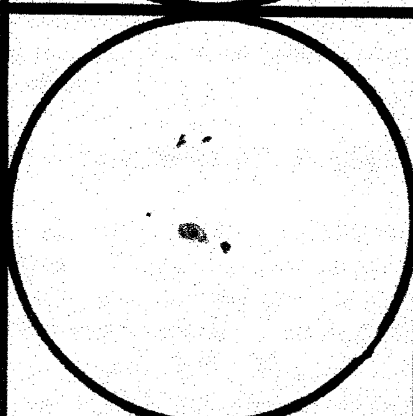
NGC 3733
CONST
DATE "
TIME 5:25



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
SMALL GLOW

SEEN W/ H3 #130

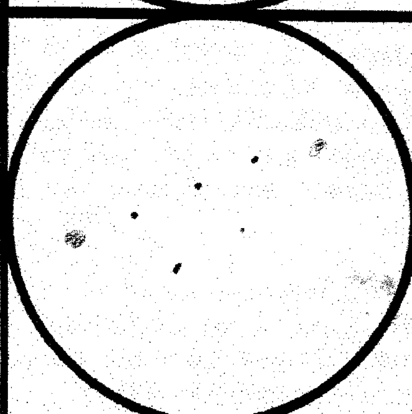
NGC 7013
CONST
DATE "
TIME 5:35



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
ELONG, COMP. NUC

H3 #283

NGC 4392+
CONST 4389
DATE "
TIME 5:40



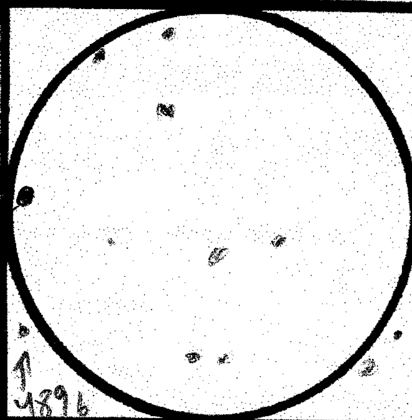
SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
2 SMALL GLOWS AT END
OF LINE

SEEN W/ H3 #166

HERSCHEL OBSERVATIONS

✓ 4889

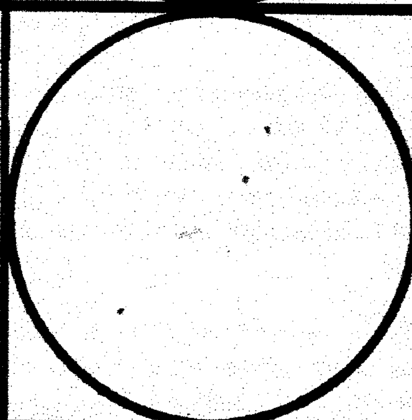
NGC SEE LIST
CONST
DATE 6/21/17
TIME 5:45



SITE ACT | SEEING III | TRANS II
INSTR ← 4874 22UC | EYEPIECE 10 | POWER 240
COMMENTS
"TOO MANY" LISTED 4889
← 4891 4885 4907
✓ 4911 4921
← 4927

H3 #218 + SEEN w/S

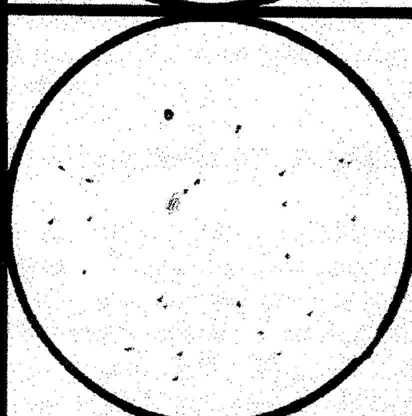
NGC 5296
CONST
DATE 〃
TIME 5:50



SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
SMALL, DIM, ELONG

SEEN W/H3 #238

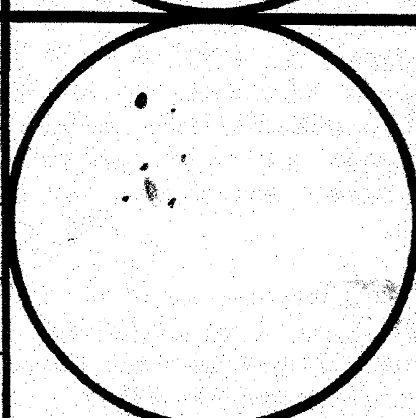
NGC 6929
CONST
DATE 〃
TIME 6:00



SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
TINY & DIM

SEEN W/H3 #282

NGC 5346 or
CONST ?
NO! 5326
DATE 〃
TIME 6:10

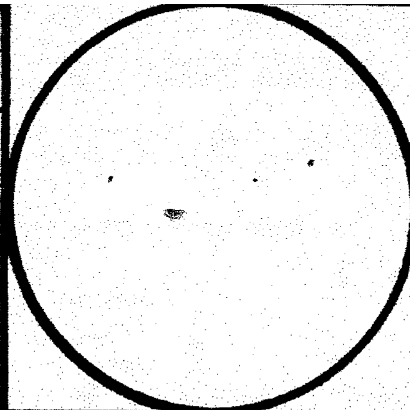


SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
LENTICULAR, SMALL

H3 #240 REPEAT

NGC 5346
CONST

SITE ACT | SEEING ~~III~~ | TRANS II
INSTR 22 UC | EYEPIECE 10 | POWER 240



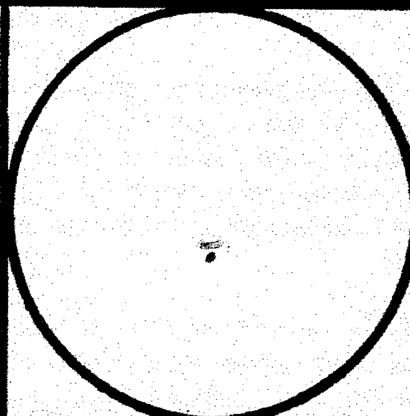
COMMENTS
VERY SMALL & DIM

DATE 6/21/17
TIME 635

SEEN W/ H3 #240

NGC 5380
CONST

SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER



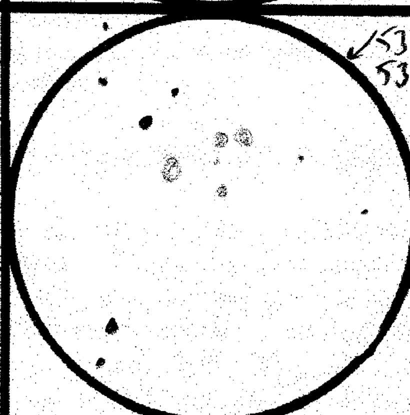
COMMENTS
SMALL ELONG, NEXT TO FS

DATE "
TIME 6:40

SEEN W/ H3 #246

NGC
CONST

SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER



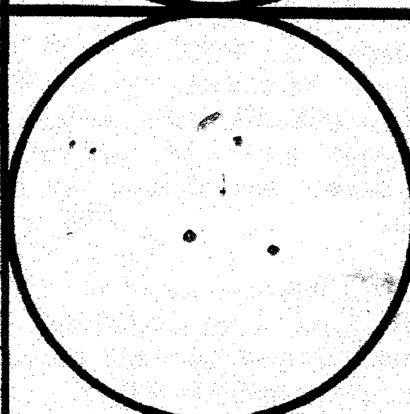
COMMENTS
← 5354 ALL GLOWS
← 5355 EVEN, DIFF.
← 5350 SIZES

DATE "
TIME 6:45

H3# 248 REPEAT + SEEN W/S

NGC 5402
CONST

SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER



COMMENTS
ELONG, FAINT, NO DETAIL

DATE "
TIME 6:55

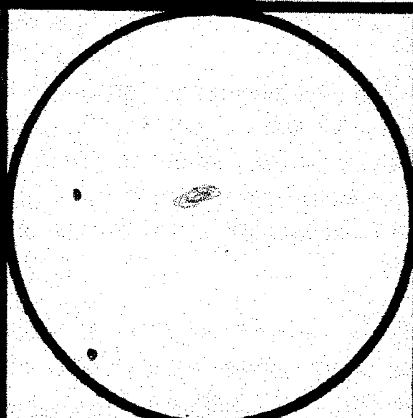
SEEN W/ H3 253+254

HERSCHEL OBSERVATIONS

NGC 5969+ 5971	SITE ACT	SEEING III TRANS II
CONST	INSTR 22UC	EYEPIECE 10 POWER 240
DATE 〃	COMMENTS GREAT PAIR! ONE LENTICULAR W/ LARGE "BUMP" OTHER OVAL NEXT TO 2 FS	
TIME 7:05		

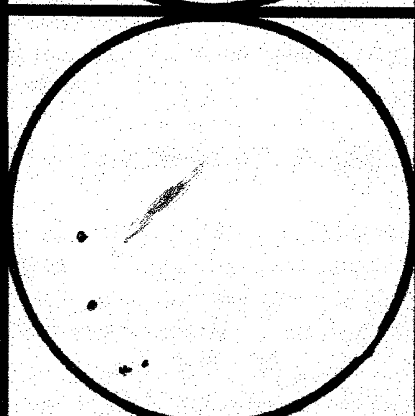
SEEN W/H3 #279

NGC 5738	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE POWER
DATE 〃	COMMENTS OVAL, W/ COMPACT NUC	
TIME 7:15		



SEEN W/H3 265

NGC 5740	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE POWER
DATE 〃	COMMENTS WOW WHAT A GREAT FLAT GALAXY W/ A SMALL DIP ON ONE END	
TIME 7:20		



H3 #265 REPEAT

NGC	SITE	SEEING TRANS
CONST	INSTR	EYEPIECE POWER
DATE	COMMENTS	
TIME		

106

[redacted]

184-186

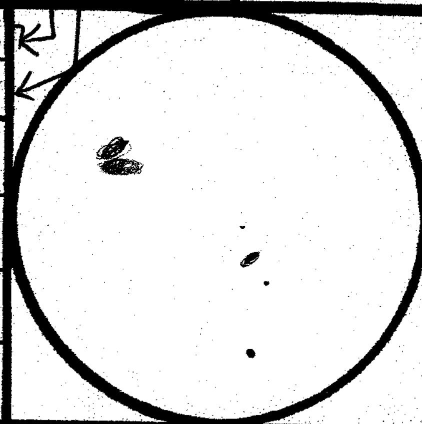
H3 ~~#171-173~~

H3 ALL3

H3 X3!

HERSCHEL OBSERVATIONS

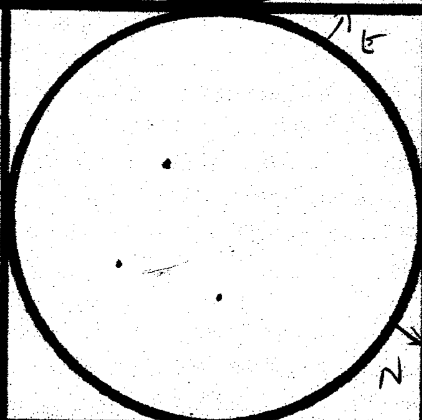
NGC 4568+4567 +4564
CONST VIR
DATE 3/25/15
TIME 4:30



SITE ACT | SEEING II | TRANS III
INSTR 22UC | EYEPIECE 24 | POWER 100
COMMENTS
← THE "CLAM"
← BRIGHT NUC ONLY I'M GUESSING

TITV 63

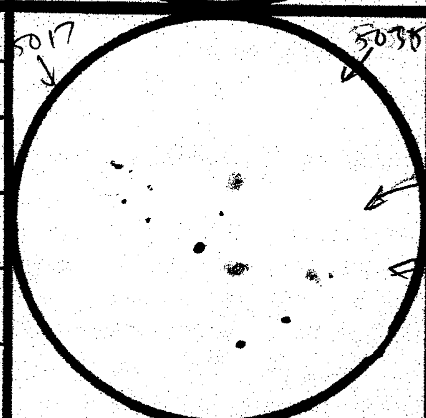
NGC U 9169
CONST BOO
DATE 〃
TIME 4:45



SITE ↓ | SEEING 〃 | TRANS 〃
INSTR ↓ | EYEPIECE 10E | POWER 240
COMMENTS
EXTREMELY FAINT & SMALL
IN THESE SKIES, AV=3
PA=45° HINT OF NUC.

FLAT 167

NGC 5054+
CONST VIR
DATE 〃
TIME 4:55



SITE ↓ | SEEING 〃 | TRANS 〃
INSTR ↓ | EYEPIECE 24 | POWER 100
COMMENTS
5017 BRIGHT ELLIP.
← 5054 SEEN BUT NO DETAIL OF BAR
5035 SMALL GLOW, MOTTLY

TITV 69

~~5017 H3~~

#87

NOT ON REVI LIST

NGC
CONST
DATE
TIME

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

107 ~~82~~

NOT ON REV 1 ~~#3~~ ~~#292~~

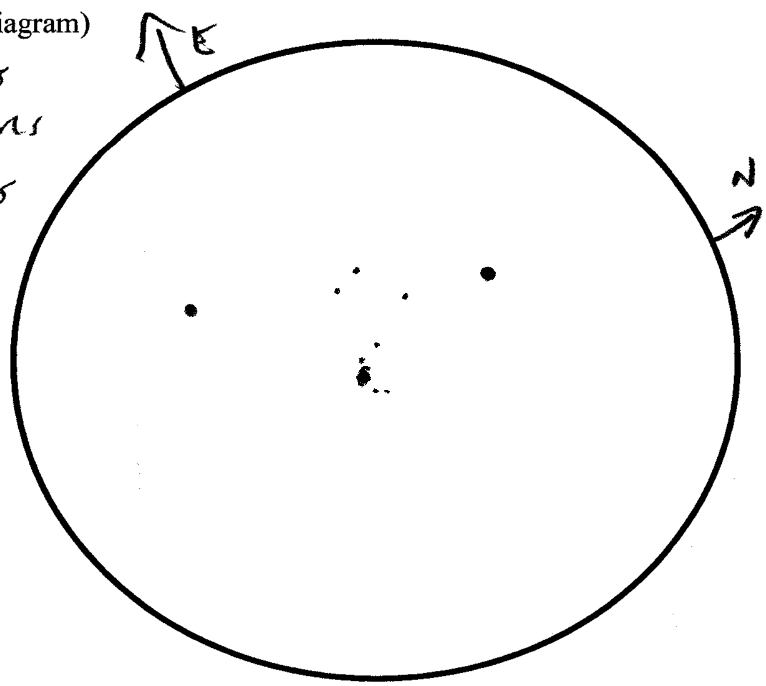
ACTIVE GALACTIC NUCLEI OBSERVING PROGRAM

Observer's Name B. Young

Object Reference #: Seyfert #59 7469 (Peg)	Location/Latitude/Longitude: ACT/+35.8/-96.1
Date: 8/16/15	Time: 3:50 UT
Seeing: II	Transparency: I-
Telescope Aperture & Focal Length: 22" UC / 2400mm	Magnification & Field Size: 240x / 0°.4
Manual or Device-driven DSC	

Notes:
(indicate North & West or East on the diagram)

HINTS OF IC NEARBY AT ONE OF THE FIELD STARS A LITTLE FUZZY. IT IS SMALL, ALMOST ALL NUCLEUS, W/ STAR ON EDGE



Distance: 219 Mly

z= 0.016
Sy 1

108

#50 H3

ACTIVE GALACTIC NUCLEI OBSERVING PROGRAM

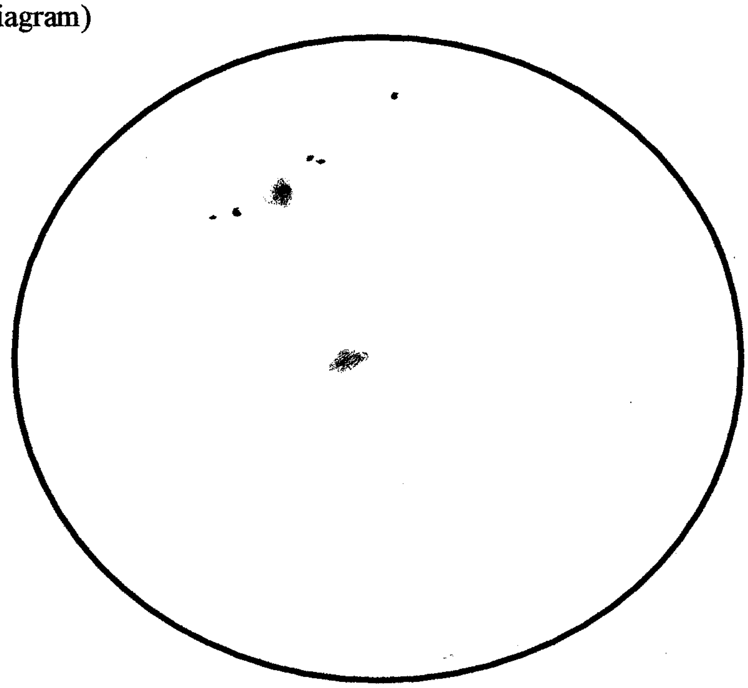
Observer's Name: B. YOUNG

Object Reference #: S 10 N1358 + 1355	Location/Latitude/Longitude: +36.8/-103
Date: 9/18/15	Time: 6:40 4
Seeing: II	Transparency: II
Telescope Aperture & Focal Length: 22" UC 2400mm	Magnification & Field Size: 246 0°.4
Manual or Device-driven	

Notes:
(indicate North & West or East on the diagram)

GREAT PAIR, BOTH EASY

1358 = OVAL, COMPACT NUC. & SOME HALO



1355 → EDGE ON
SEEN ALONG, I THINK I
ONLY SAW NUC.

z = 0.013

Distance: 178 mly

seen thru *

N

50

19

-120

109

#45 H3 ~~#36~~

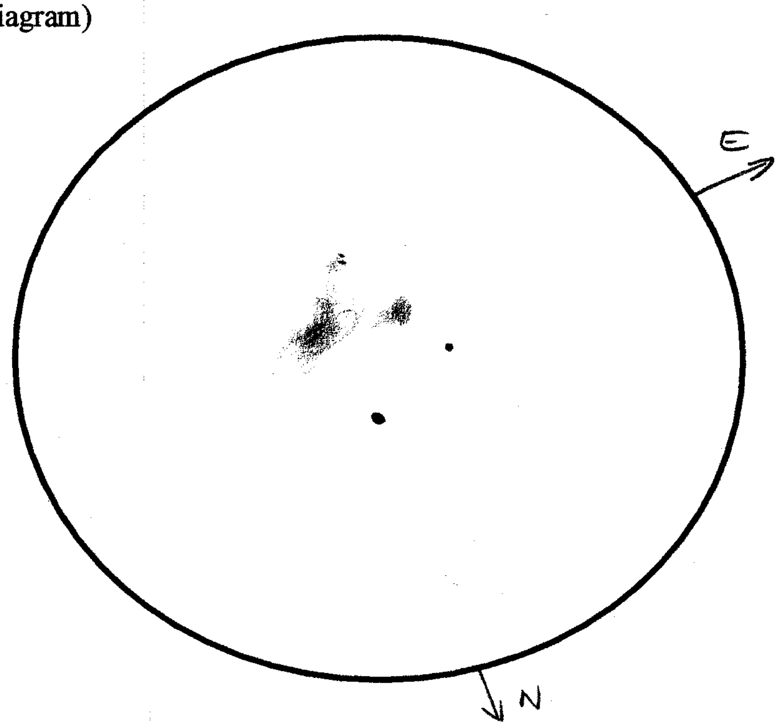
ACTIVE GALACTIC NUCLEI OBSERVING PROGRAM

Observer's Name B. YOUNG

Object Reference #: S8 N1241/2	Location/Latitude/Longitude: O-T +36.9/-103
Date: 9/17/15	Time: 6:10 UT
Seeing: II	Transparency: II
Telescope Aperture & Focal Length: 22UC 2400mm	Magnification & Field Size: 240 0°.4
Manual or Device-driven	

Notes:
(indicate North & West or East on the diagram)

MAGNIFICENT PAIR
CLEARLY SAW ARMS
SWOOPING AWAY FROM
1241, DETAIL OF HALO
AROUND ITS NUC. &
1242'S. WIDE DOUBLE
TO SE DOESN'T SEEM
TO HAVE REAL NEBULA.
GREAT FIELD!



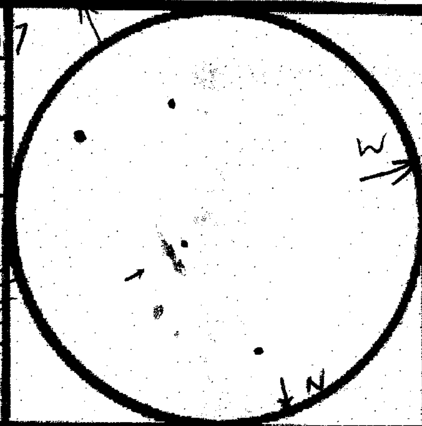
220,014

Distance: 191 Mly

110

HERSCHEL OBSERVATIONS

NGC MCG 1-5-47 7
CONST Cet
FF#16
DATE 9/25/14
TIME 7:25UT

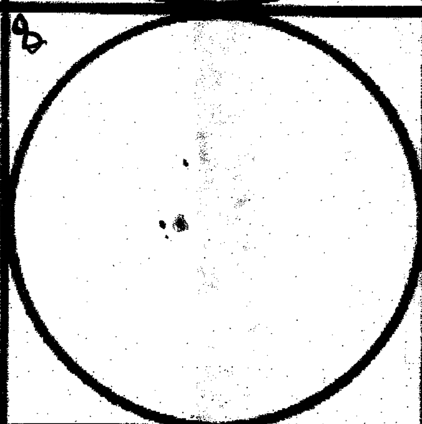


SITE Okie-Tex | SEEING II | TRANS II
INSTR 22" UC | EYEPIECE 10 | POWER 240

COMMENTS
NICE, NVC & FS NEAR CENTER
SEEMS A BIT OF 'BREAK' IN GLOW (→)
PA=
← AV=3 MAC 0152-0325 → REVISIT
← AV=5 MAC 0152-0323 ← LOOKS LIKE I DREW ON WRONG SIDE OR WAS FOOLED

FLAS

NGC ~~2~~826 8
CONST Cet
DATE "
TIME 7:45UT

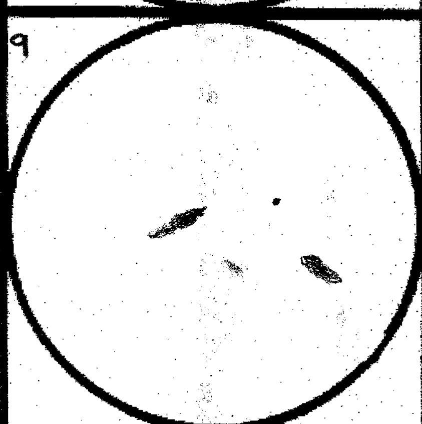


SITE ↓ | SEEING " | TRANS "
INSTR ↓ | EYEPIECE 24 | POWER 100

COMMENTS
LOVELY LITTLE GLOW - COMPACT

H3 #8

NGC 7332/7339 9
CONST PEG
TTV #101
DATE "
TIME 8:15UT

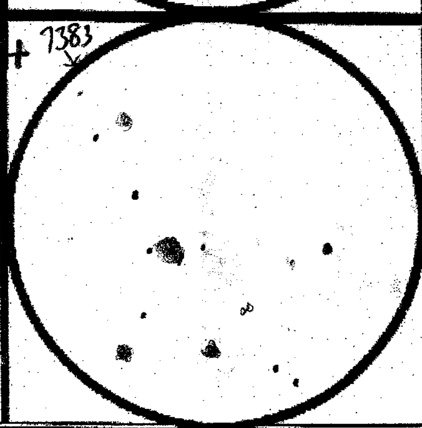


SITE ↓ | SEEING " | TRANS "
INSTR ↓ | EYEPIECE 10 | POWER 240

COMMENTS
NICE PAIR, 7332 IS BRIGHTER,
HAS SOME DETAIL W/NVC
APPARENT 7339 DIMMER
BUT NVC & SOME MOTTLE

TTV

NGC 7385/7386 + 7383
CONST PEG
TTV 103
7385 →
DATE "
TIME 8:40UT



SITE | SEEING | TRANS
INSTR | EYEPIECE 10 | POWER

COMMENTS
WHAT A GROUP! ALL SEEN FOR SURE, BUT
← 7390 = AV=2
← 7389 = AV=2

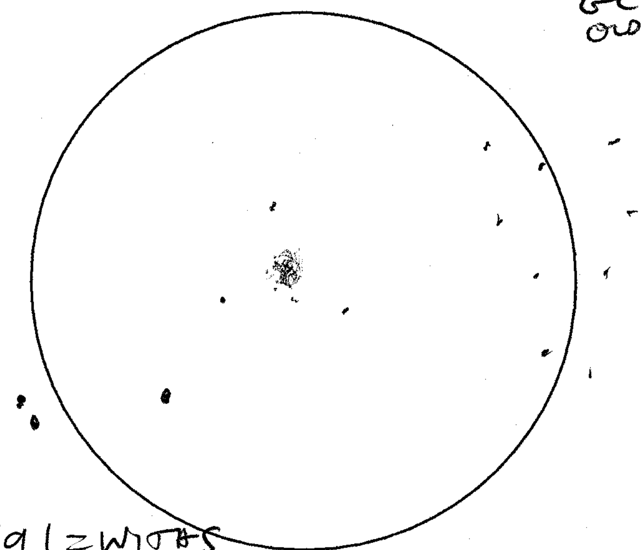
TTV
GGC?
H3
7383
REV. 1
#289

111

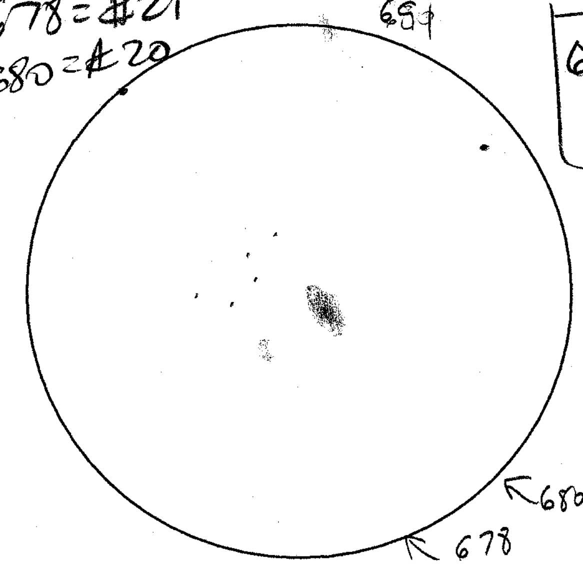
OTHERS WITH

Astronomy Sketch Log

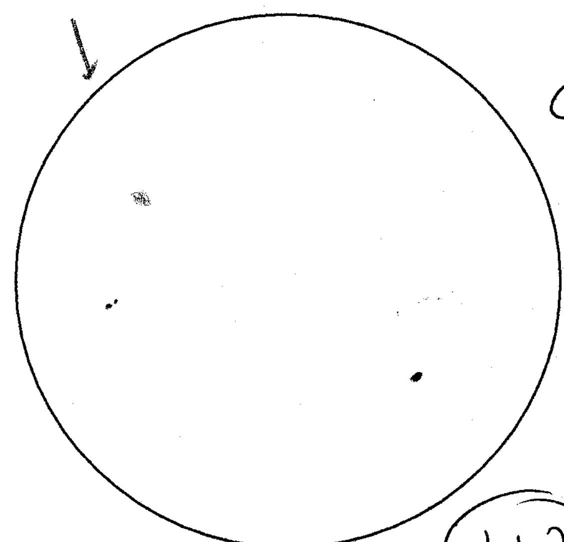
Subject: Pal 11 | Type: GC
Constellation:
Date: 7/16/15 | Time: 8:05 UT
Observing Location: ACT
Instrument: 22 UC | Aperture: 22
EP/Mag: 24 / 100x | Focal Length: 2400
Conditions: | Seeing/Transp: II / II
Notes:
VERY EASY — BRIGHTER THAN
MOST PALS HINT OF RES ON EDGES
W/ HINT OF STARS ON FACE



Subject: N678 + 697 + 680 | Type:
Constellation:
Date: 7/16/15 | Time: 9:00 UT
Observing Location: ACT
Instrument: 22 UC | Aperture:
EP/Mag: | Focal Length:
Conditions: GOOD | Seeing/Transp: II / II
Notes:



(PAN STARRS)
Subject: Comet C/2014 Q1 | Type: Comet
Constellation: CNC
Date: 7/16/15 | Time: 2:28 UT
Observing Location: ACT
Instrument: 20x80's | Aperture: 80mm
EP/Mag: 20x | Focal Length:
Conditions: | Seeing/Transp: II / II
Notes: VERY HARD BUT SEEN —
NO FOLLOW UP DUE TO LOW CLOUDS
LATER IN WEEK

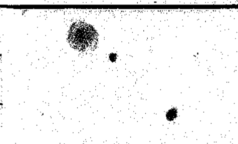
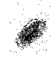


The American Association of Amateur Astronomers

Observing Log

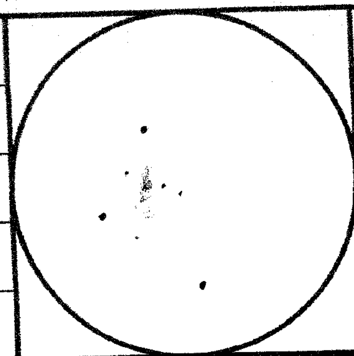
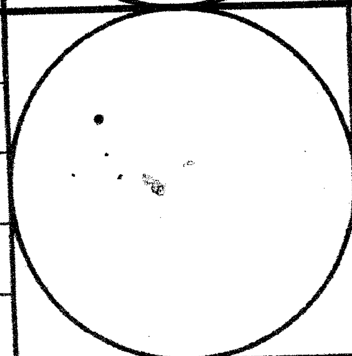
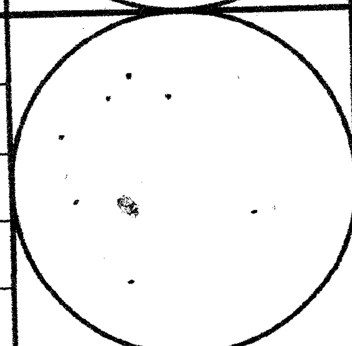
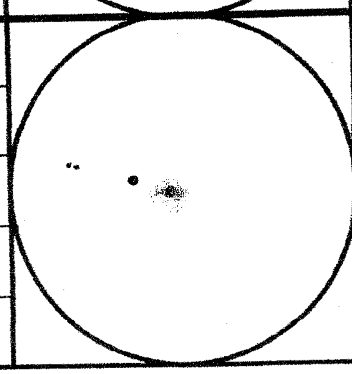
www.AstroMax.com

Observer: B Young **Location:** Various **Page:**

INDEX	Period - Instrument	Notes
Object N4904	Date Power TZ C=III S=II 4/11/15 6:00 Type Instrument 22UC 24mm 100X	 LOOKS FACE ON NUC + FULL OVAL HINT OF ARMS
Object N4592	Date Time Power 100X Seeing Type Instrument 22UC	 545UT TZ C III S II 4/11/15 ELONGATED 4X1 #188 WITH COMPACT NUC.
Object N4671	4/11/15 TZ C=III S=II 350UT Type Instrument 22UC	240X 10mmE  VERY SHAPELY WITH 2 STUBBY ARMS - ONE LONGER
Object	Date Time Power Seeing Type Instrument	
Object	Date Time Power Seeing Type Instrument	
Object	Date Time Power Seeing Type Instrument	
Object	Date Time Power Seeing Type Instrument	
Object	Date Time Power Seeing Type Instrument	
Object	Date Time Power Seeing Type Instrument	
Object	Date Time Power Seeing Type Instrument	

H? OU H3 N1 W

GALAXY GROUP AND CLUSTER OBSERVATIONS

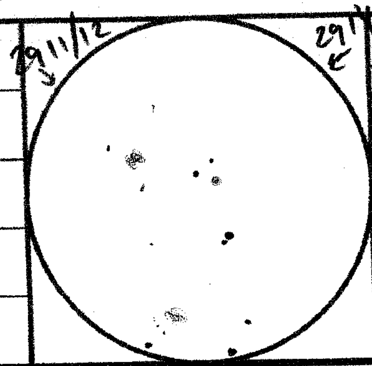
NGC 3981		SITE RMCC; SEEING II; TRANS I
CONST		INSTR XT-12; EYEPIECE 10; POWER 150
No. OF GALAXIES (AV) 1		COMMENTS Galaxy w/ stellar nuc.
DATE 5/5/10		← "patch" w/AV - almost round
TIME 9:45		
NGC 4933 A/B (c?)		SITE; SEEING; TRANS
CONST		INSTR; EYEPIECE; POWER
No. OF GALAXIES (AV) 3		COMMENTS ← AV=4 (c)
DATE 5/5/10		
TIME 10:00		
NGC 2444/2445		SITE; SEEING; TRANS
CONST		INSTR; EYEPIECE; POWER
No. OF GALAXIES (AV) 2		COMMENTS Both seen — seen to be interacting - S one a bit brighter w/ star or stellar nucleus
DATE 5/5/10		
TIME 10:15		
NGC 2685		SITE; SEEING; TRANS
CONST		INSTR; EYEPIECE; POWER
No. OF GALAXIES (AV) 1		COMMENTS Bright knot w/ "ears" + faint halo (AV only?)
DATE 5/5/10		
TIME 10:30		

A
28
H3
#14
A
17
H3
#2
24
A
14
A
33

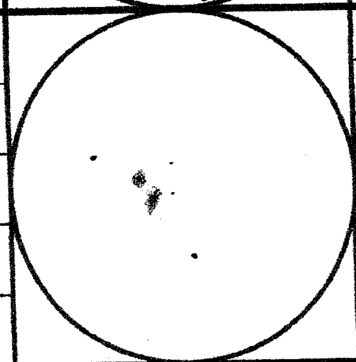
The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is further explained on pages 137-138.

GALAXY GROUP AND CLUSTER OBSERVATIONS

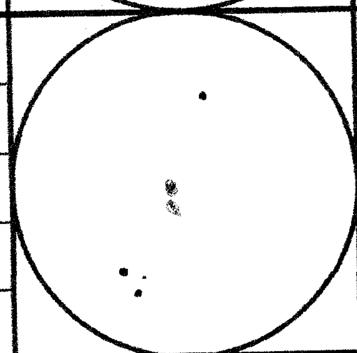
NGC	2911/12 +
CONST	
No. OF GALAXIES (AV)	3(4?)
DATE	5/5/10
TIME	10:45
SITE	RMCC
SEEING	II
TRANS	I
INSTR	XT-12
EYEPIECE	10
POWER	150
COMMENTS	2911/12 M.35 ... w/AV but not split ← 2919



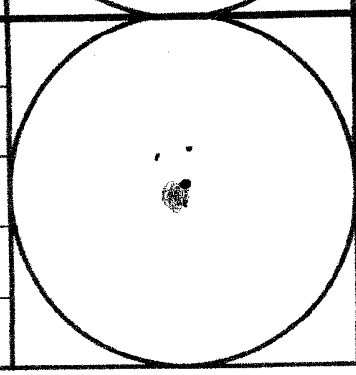
NGC	2872/3/4
CONST	
No. OF GALAXIES (AV)	2(3?)
DATE	5/5/10
TIME	11:00
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	← can't quite split W has nuc - seems primary separate one stellar nuc.



NGC	2798/99
CONST	
No. OF GALAXIES (AV)	2
DATE	5/5/10
TIME	11:15
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	← "TYPICAL ELLIPTICAL" + S. NUC. ← ELONG, NO NUC. NO COMMUNICATION

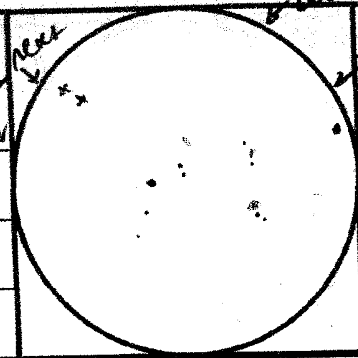
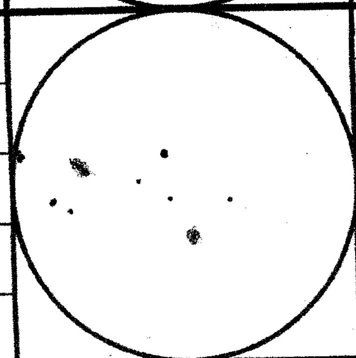
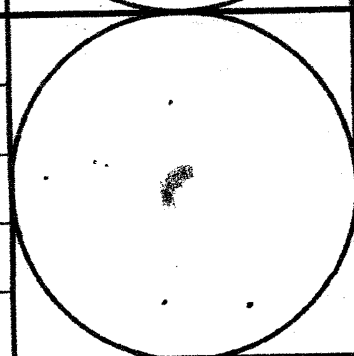
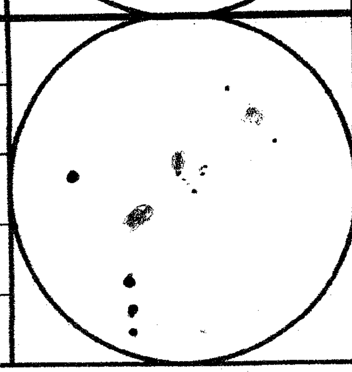


NGC	3239
CONST	
No. OF GALAXIES (AV)	1
DATE	5/5/10
TIME	11:30
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	Right on star - w/another or a st nucleus? Some grainy feel to glow - interesting!



29 A 23 28 /4 A 30 H3 see W/S A 28 H3 +8 A 26

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.

NGC 2636/2646/2389 (IC)		SITE 2389 RMCC — SEEING II — TRANS I
CONST		INSTR XT-12 — EYEPIECE 10 — POWER 150
No. OF GALAXIES (AV) 3		COMMENTS
DATE 5/5/10		While on the way, all AV
TIME 11:45		←2646 but no real details
NGC 2633/2634		SITE ↓ — SEEING — TRANS ↓
CONST		INSTR ↓ — EYEPIECE — POWER ↓
No. OF GALAXIES (AV) 2		COMMENTS
DATE 5/5/10		←2633 Grainy - seems like 2 sections
TIME 11:55		←2634 (no A)
NGC 3395/6		SITE ↓ — SEEING — TRANS ↓
CONST		INSTR ↓ — EYEPIECE — POWER ↓
No. OF GALAXIES (AV) 2		COMMENTS
DATE 5/6/10		Beautiful - the way you expect Interacting
TIME 12:10		overlaps to look - no nucleus but lots of graininess
NGC 3413/24/30		SITE ↓ — SEEING — TRANS ↓
CONST		INSTR ↓ — EYEPIECE — POWER ↓
No. OF GALAXIES (AV) 3		COMMENTS
DATE 5/6/10		Since nearby - wonderful
TIME 12:15		clump of 3 in bright field.

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.

116

Observing Log

Object type: Galaxy

Arp 28 H3 #293

Object ID: NGC 7678

Const.: ______

RA: ______ **Dec.:** ______

Mag: ______ **Size:** ______

Observer B. Young

Date 12/20/9

Time 9:45pm

Location RMCC

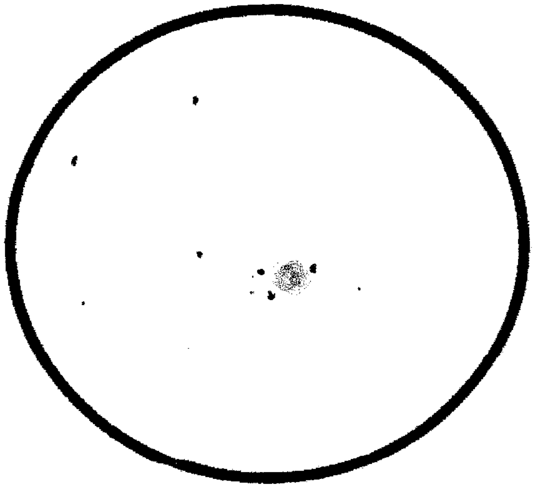
Seeing II **Transparency** I

Instrument XT-12

Size 12

Eyepiece 10

Field of view 0°.2 **Power** 150x

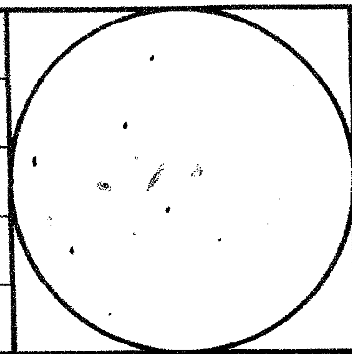


- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Seems even
- **Are the edges of the outer envelope sharp or diffuse?** Some
- **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?** No

Description ______

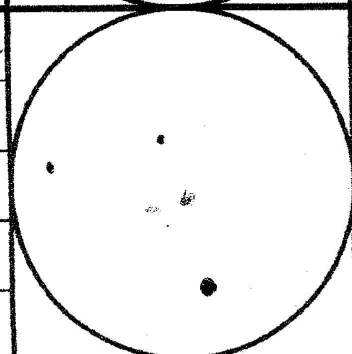
GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC	4613/4/5
CONST	
No. OF GALAXIES (AV)	3
DATE	3/18/10
TIME	11:30
SITE	RMCC
SEEING	II
TRANS	II
INSTR	12
EYEPIECE	10
POWER	150x
COMMENTS	AV=2,2,3 Middle one needle at right, others rounder



Δ 29 AN 34

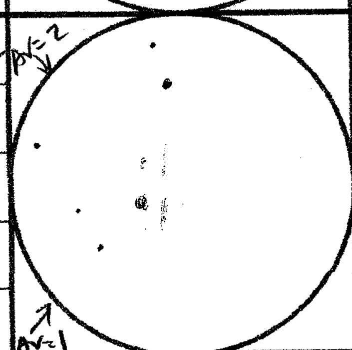
NGC	Wild's Triplet
CONST	
No. OF GALAXIES (AV)	2
DATE	3/18/10
TIME	11:35
SITE	RMCC
SEEING	II
TRANS	II
INSTR	12
EYEPIECE	10
POWER	150x
COMMENTS	AV=1&2 (3? elongated?)



D2 AN 2

NGC	4169/73/74/75
CONST	"the Box"
No. OF GALAXIES (AV)	4
DATE	3/18/10
TIME	11:45
SITE	RMCC
SEEING	II
TRANS	II
INSTR	12
EYEPIECE	10
POWER	150x
COMMENTS	←AV=2 ←AV=2 COOL!

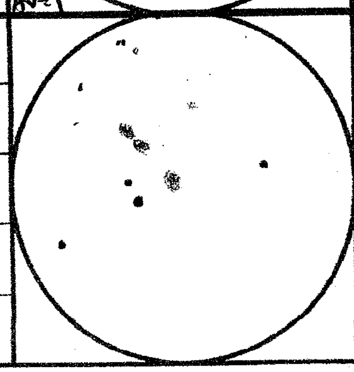
AV=2



AV=1

Hic 61

NGC	5353+54+50
CONST	
No. OF GALAXIES (AV)	
DATE	3/18/10
TIME	11:55
SITE	RMCC
SEEING	II
TRANS	II
INSTR	12
EYEPIECE	10
POWER	150x
COMMENTS	All AV=1! Cool! Some hint of interaction with 5354+5353



Hcl 68

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.

H3 #248 + seen w/s

121

21

H3

#259

ARP 49

Observing Log

Object type: ~~Nebula~~ GALAXY

Object ID: N 5665 (Arp 49)

Const.: ____ **RA:** ____ **Dec.:** ____ **Mag:** ____ **Size:** ____

Observer B. Young

Date 4/10/10

Time 11:30

Location RMCC

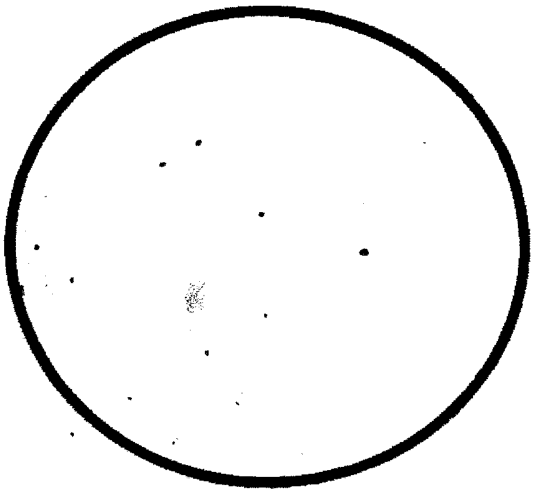
Seeing III **Transparency** I

Instrument XT-12

Size 12

Eyepiece 10

Field of view 0°.3 **Power** 150x



- **Can this nebula be seen with direct vision, or is averted vision required?**
- **Is there an overall shape of the object or is it simply irregular?** Oval
- **Is any part of the outer edge of the nebula sharply defined?** "Smeared"
- **Is any part of the nebula brighter or more concentrated?** SW
- **Is there any particular area where you notice an absence of stars in this cluster?** —
- **Are there any voids or dark patches, or lanes ~~in the nebula~~? Any bright filaments or streamers?** No
- ~~**Is there an open cluster nearby or involved or any obvious stars involved with this nebula?**~~
- **Any suggestions for observing this nebula (I.e. filter, power, field of view, etc.)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** No

Description Looks uneven in glow, but not much detail

123

24

Observing Log
Object type: Galaxy

H3 ~~#246~~

ARP 84

Object ID: NGC 5394/5

Const.: ______

RA: ______ **Dec.:** ______

Mag: ______ **Size:** ______

Observer B. Young

Date 4/10/10

Time 9:35 pm

Location RMCC

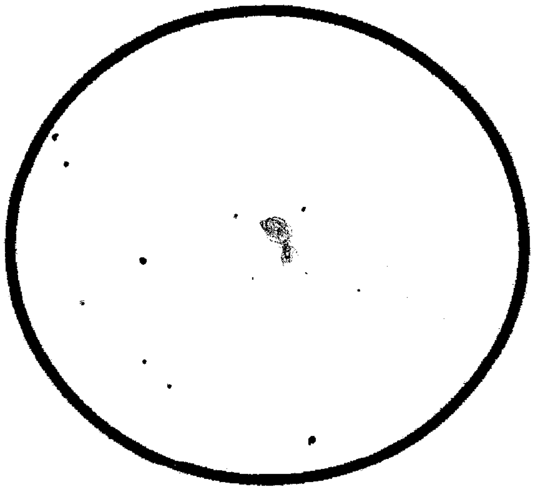
Seeing III **Transparency** I

Instrument XT-12

Size 12

Eyepiece 10

Field of view 0°.3 **Power** 150x



- **Can this galaxy be seen with direct vision, or is averted vision required?** 70% use
- **What is the overall shape?** 2 ovals – interacting
- **Is a core noticeable?** Y/Or star in smaller one
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?**
- **Are the edges of the outer envelope sharp or diffuse?** Some overlap
- **Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?**
- **Are there any other deep-sky objects in the same field of view? If so, what?** Each other

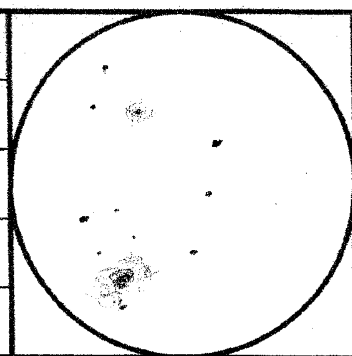
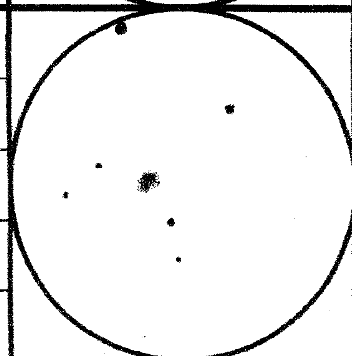
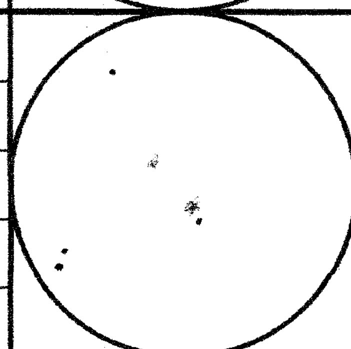
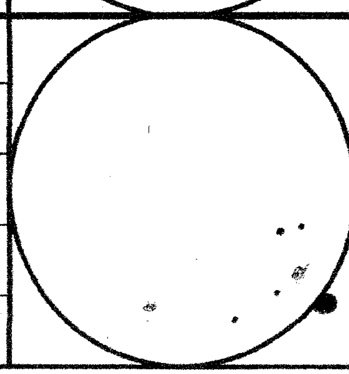
Description ______

(1999 Cole & Pratt)

124

29

GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC 4712/4725 CONST No. OF GALAXIES (AV) 2 DATE 5/7/10 TIME 12:30		SITE RMCC — SEEING III — TRANS II INSTR XT-12 — EYEPIECE 10 — POWER 150 COMMENTS ←4712 Nice! cN oval Large "bowtie" appearance, ←4725 bN
NGC 3690 CONST No. OF GALAXIES (AV) 1 DATE " TIME 12:45		SITE — SEEING — TRANS INSTR — EYEPIECE — POWER COMMENTS Small compact - 2nd bright blob
NGC 3921/3916 CONST No. OF GALAXIES (AV) 2 DATE " TIME 1:00		SITE — SEEING — TRANS INSTR — EYEPIECE — POWER COMMENTS ←3916 AV=3 ←3921 AV=1 hint of mottling
NGC 3733/37/59 CONST No. OF GALAXIES (AV) 3 DATE " TIME 1:15		SITE — SEEING — TRANS INSTR — EYEPIECE — POWER COMMENTS Nice group near 6m star ←3733 ←3737

47.. seen w/ H3

Arp 29..

H3.. #128..

Arp 22..

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.

←3759

seen w/s H3

125

7

1/3 seen w/s

Observing Log

Object type: Galaxy

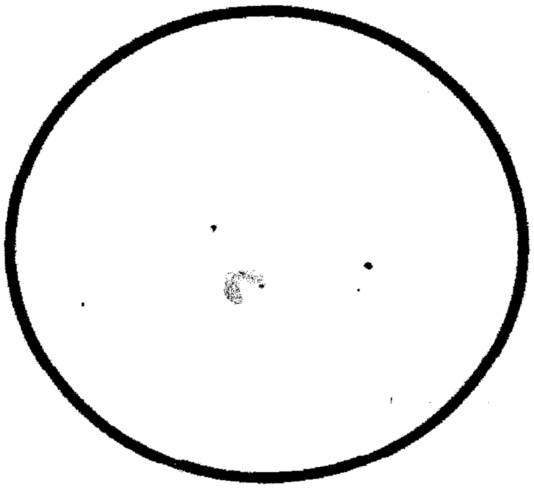
Arp 86

Object ID: 7752/3

Const.:

RA: **Dec.:**

Mag: **Size:**



Observer B. Young

Date 12/20/9

Time 9:50

Location RMCC

Seeing II– **Transparency** I

Instrument XT-12

Size 12

Eyepiece 10

Field of view 0°.2 **Power** 150X

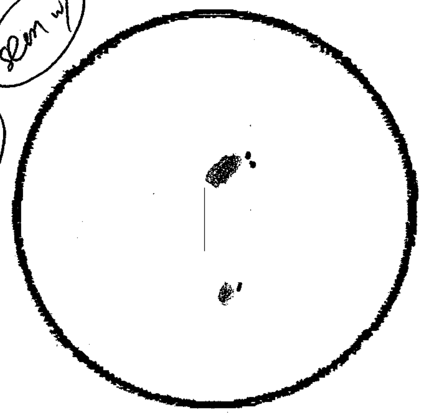
- **Can this galaxy be seen with direct vision or is averted vision required?** Use
- **What is the overall shape?** Joined to form horseshoe!
- **Is a core noticeable?** No
- **Is the core compact or stellar?** —
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **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 Very nice – requires concentration & AV to really see it joined

ARP 214
M109
GROUP

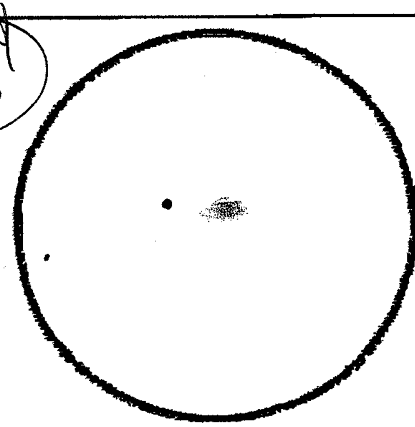
Local Group & Galactic Neighborhood Observations

Object: N 3718 + 3729 seen w/ H3 #129
Date: 6/29/9
Instrument: XT-12
Seeing: II
Transparency: II
Eyepiece: 2x42
Power: 75x
Time: 12:25
# of Galaxies: 2
FOV: 0°.6
AV scale: —
Dimmest LM star: —



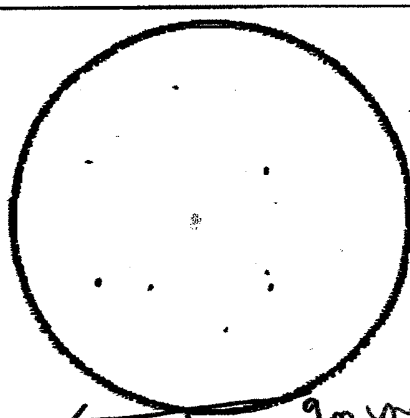
Notes:
Both oval 3718 bigger & brighter
No details or nucleus, but easily seen

Object: N 3756 seen w/ H3
Date: 6/29/9
Instrument: XT-12
Seeing: II
Transparency: II
Eyepiece: 10
Power: 150x
Time: 12:35
# of Galaxies: 1
FOV: 0°.3
AV scale: —
Dimmest LM star: —



Notes:
Elong w/ compact nuc.

Object: N 3913
Date: 6/29/9
Instrument: XT-12
Seeing: II
Transparency II
Eyepiece 2x42
Power: 75x
Time: 12:50
# of Galaxies: 1
FOV: 0°.6
AV scale: AV 2
Dimmest LM star: 13

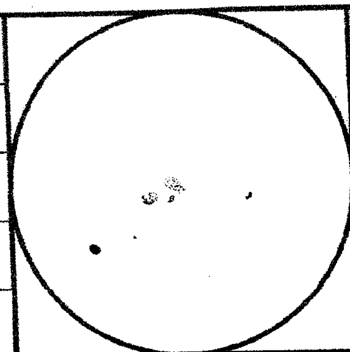


9m UMa
70-45

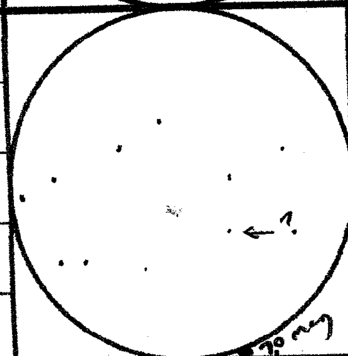
Notes:
No detail
small glow

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

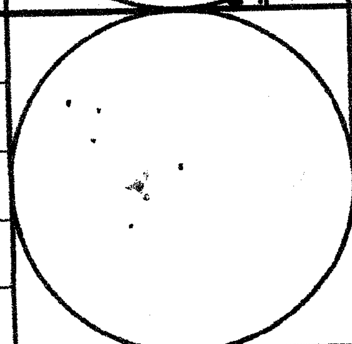
GALAXY GROUP AND CLUSTER OBSERVATIONS

NGC		SITE	SEEING	TRANS
NGC 2872/3/4		RMCC	II	II
CONST		INSTR	EYEPIECE	POWER
		12	10	150
No. OF GALAXIES (AV)		COMMENTS		
3		2 easy - 1 AV=5		
DATE				
3/16/10				
TIME				
9:30				

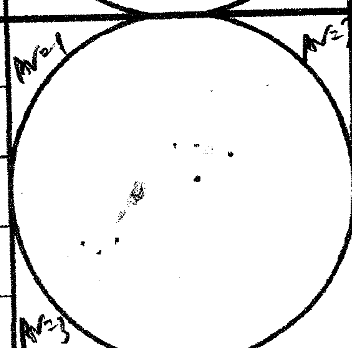
A 1

NGC		SITE	SEEING	TRANS
Hick 38/Arp 237		RMCC	II	II
CONST		INSTR	EYEPIECE	POWER
		12	10	150x
No. OF GALAXIES (AV)		COMMENTS		
1		EOV but definitely		
DATE		Saw odd shaped glow AV=4		
3/16/10		No details. Why is star		
TIME		not plotted?		
9:45				

H 38
Ar 37

NGC		SITE	SEEING	TRANS
Hickson 40		RMCC	II	II
CONST		INSTR	EYEPIECE	POWER
		12	10	150x
No. OF GALAXIES (AV)		COMMENTS		
2 or 3		Very strange set of glows		
DATE		Cannot draw, some hint		
3/16/10		of elongation, one more		
TIME		stellar or has star.		
10:50				

H 40

NGC		SITE	SEEING	TRANS
Hickson 42		RMCC	II	II
CONST		INSTR	EYEPIECE	POWER
		12	10	150x
No. OF GALAXIES (AV)		COMMENTS		
3		One easy with 2		
DATE		smaller/dimmer glows		
3/16/10		N3091 some detail -		
TIME		graininess in arm area		
11:15				

H 42

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.

752 →

N3085 ← seen w/ H3

128

57

#1 (cont.) = 5634
#2 = 54938
5634 542

OBSERVATION LOG

NAME	DATE	INSTRUMENT	SEEING	OBJECT NAME
B YOUNG	5/20/6	XT-12	III	NGC ~~6534~~ 5634
SITE	**TIME**	**POWER**	**TRANSPARENCY**	**CONSTELLATION**
RMCC	12:00	36x	III	Vir

DESCRIPTION

Nwrcs @ 36x but easily seen,

NAME	DATE	INSTRUMENT	SEEING	OBJECT NAME
"	"	"		NGC 5493
SITE	**TIME**	**POWER**	**TRANSPARENCY**	**CONSTELLATION**
"	12:05	"		Vir

DESCRIPTION

Sl. elliptical, seen but no detail near a square of fs

NAME	DATE	INSTRUMENT	SEEING	OBJECT NAME
"	"	"	"	NGC 5468
SITE	**TIME**	**POWER**	**TRANSPARENCY**	**CONSTELLATION**
"	12:10	"	"	Vir

DESCRIPTION

Sitting on top of 9m fs, amorphous glow, no nucleus, no size or shape - fades out small dim glow, DV, AV no help.

seen w/

#3 & 256

NAME	DATE	INSTRUMENT	SEEING	OBJECT NAME
"	"	"	"	NGC 5426/7
SITE	**TIME**	**POWER**	**TRANSPARENCY**	**CONSTELLATION**
"	12:13	"	"	Vir

DESCRIPTION

Elongated, can't split @ this power, N end seems brighter
Oddly shaped, can see hint of duplicity

129 Arp 271

62
~~254~~

7.4 Local Group & Galactic Neighborhood Observations (choose one)

4438 = ARP 120

Object M84/M86 Clump	Date 6/26/9
R.A.	Time 1130 CDT
Dec	Location RMCC
Magnitude	Instrument XT-12
Constellation	Eyepiece 2X42
Transparency II	Power (X) 75
Seeing II	Field of View 0°.6

H3 #159

Others seen w/s

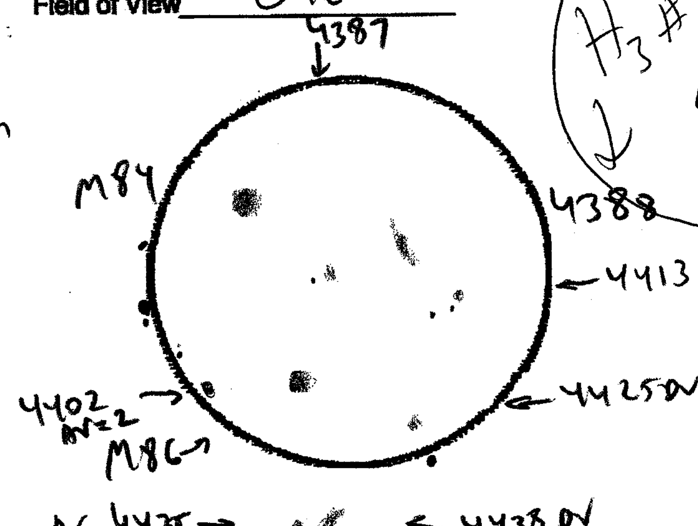
Aperture & Focal Length 12" 1500mm

Faintest Naked Eye Star 5.5

# of averted vision galaxies 1

# of direct vision galaxies 8

Group or Cluster Virgo SC



* 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 notes
* Is there any grouping or clustering apparent? Obvious Any interaction between galaxies? No
* Do the galaxies form any particular pattern? Are they evenly or unevenly distributed? Not obvious
* Are details such as nuclei, dust lanes or spiral arms visible in any of the galaxies? Some details in M84 + M86 + 4388
* Are any of the galaxies close enough to one another to appear superimposed? If so, are any signs of interaction visible? No

Description WHAT A CLUSTER!

130 75 30

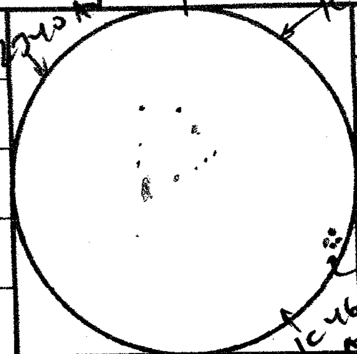
GALAXY GROUP AND CLUSTER OBSERVATIONS

Mar

NGC	See 127
CONST	
No. OF GALAXIES (AV)	6
DATE	4/8/10
TIME	11:00

2340 AV=1

IC 458 AV=2



UGC 3725 AV=3

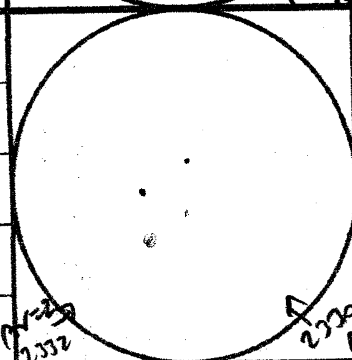
IC 464 AV=4 or star?

SITE	RMCC	SEEING	TRANS
		I	I
INSTR	12"	EYEPIECE	POWER
		10	150

COMMENTS

A66
12

NGC	
CONST	
No. OF GALAXIES (AV)	
DATE	4/8/10
TIME	11:10



AV=3 2332

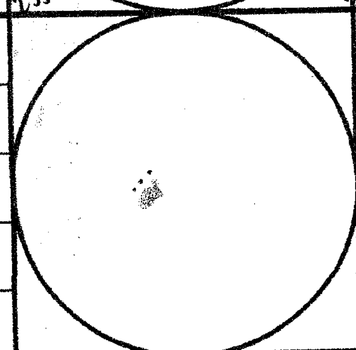
2330 AV=3 EOL

SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

Nice group in easy field w/ several stars

NGC	2535/2536
CONST	
No. OF GALAXIES (AV)	1
DATE	4/8/10
TIME	11:30



SITE	"	SEEING	TRANS
INSTR	"	EYEPIECE "	POWER

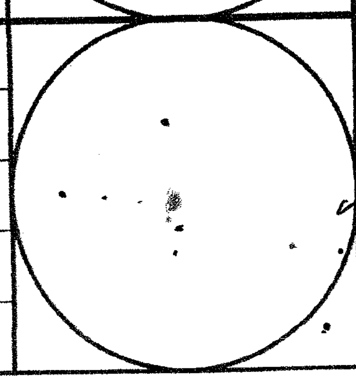
COMMENTS

Looks misshapen - but is it effect of line of 3 stars?

No distinction of 2

AR
8

NGC	2537/IC 2233
CONST	
No. OF GALAXIES (AV)	2
DATE	4/9/10
TIME	12:50



IC 2233 AV=3

SITE	"	SEEING	TRANS
INSTR	"	EYEPIECE "	POWER

COMMENTS

AR
6

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.

2537 = H3#71

12:51 W Um = 8.0 8.79

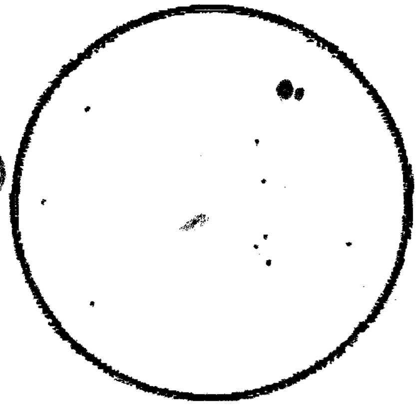
131

76

Local Group & Galactic Neighborhood Observations

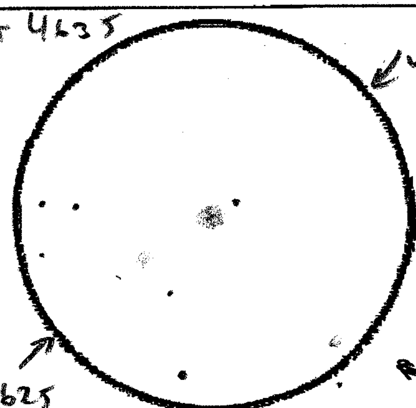
H3 #167

Object: N4460
Date: 6/28/9
Instrument: XT-12
Seeing: II
Transparency: II+ (clearing)
Eyepiece: 10
Power: 150
Time: 11:40
# of Galaxies: 1
FOV: 0°.3
AV scale: OV
Dimmest LM star:



Notes:
Nice lenticular or elong, w/ star or stellar nucleus & some mottling
Great d.s. in fld.

Object: N 4618 + 4625 + 4635
Date: 6/28/9
Instrument: XT-12
Seeing: II
Transparency: II+
Eyepiece: 2x42
Power: 75x
Time: 11:50
# of Galaxies: 3
FOV: 0°.6
AV scale: 2 (4635)
Dimmest LM star: 14



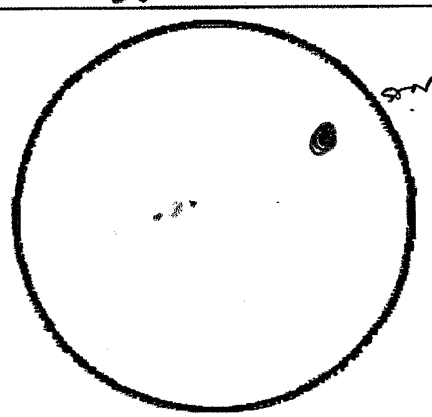
4625 small glow OV

Notes:
4618 Tiny nucleus, even oval glow

4635 small glow AV=2

Group M106

Object: N 3733
Date: 6/29/9
Instrument: XT-12
Seeing: II
Transparency II+
Eyepiece 10
Power: 150x
Time: 12:15
# of Galaxies: 1
FOV: 0°.3
AV scale: —
Dimmest LM star: —



Notes:
Just N of bright star
Couldn't see w/ 75x but 150x separates enough. Small oval glow between 2 dim. f. stars.

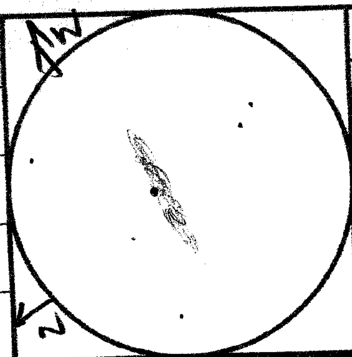
The AV scale for averted vision is used to classify the difficulty of observation. This 1-5 scale is explained in Appendix V, #4.

FLAT

GALAXY ~~GROUP AND CLUSTER~~ OBSERVATIONS

#3
#

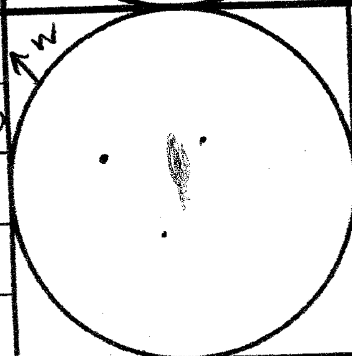
NGC	4517
CONST	Vir RFGC 2315
No. OF GALAXIES (AV)	1
DATE	6/12/10
TIME	10:45



SITE	RMCC	SEEING	I–	TRANS	II
INSTR	XT-12	EYEPIECE	10	POWER	150

COMMENTS
Very flat, very near fs
Some hints of dust,
one bright area (o.i.c. core?)
PA=85°

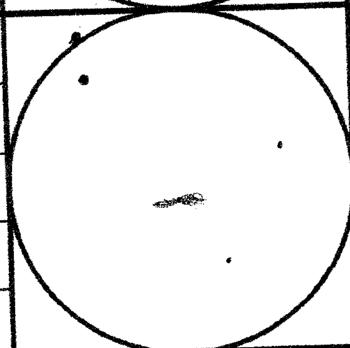
NGC	4330
CONST	RFGC 2270
No. OF GALAXIES (AV)	
DATE	6/12/10
TIME	11:15



SITE	//	SEEING		TRANS	//
INSTR	//	EYEPIECE	10	POWER	150x

COMMENTS "Halo" seen but no dust lane – not easy to extend it.
PA=45°

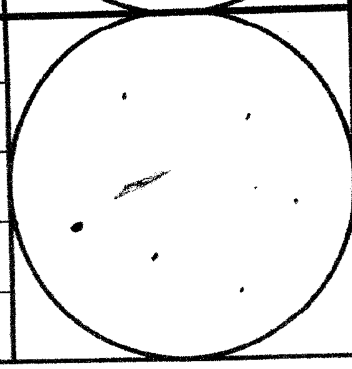
NGC	5170
CONST	RFGC 2579
No. OF GALAXIES (AV)	
DATE	6/13/10
TIME	12:10



SITE	//	SEEING	//	TRANS	
INSTR	//	EYEPIECE	//	POWER	

COMMENTS
PA=40°
I'M NOT SURE ABOUT
DUSTLANE – STAR OR
STELLAR NUCLEUS & SW SIDE
SEEMS LARGER.

NGC	5073
CONST	RFGC 2528
No. OF GALAXIES (AV)	
DATE	6/13/10
TIME	12:25



SITE	//	SEEING	//	TRANS	
INSTR	//	EYEPIECE	//	POWER	

COMMENTS
SERIOUSLY OMG
FLAT PA=5°

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.

H3 + seen #108 w/s

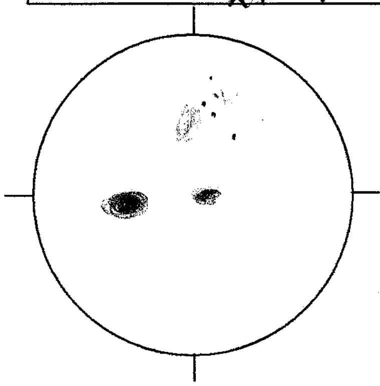
RASC Visual Observing Log

Page:

Date: 1/20/13	Time: 6:20	Activity: NOTED	
Location: ACT			
Conditions:	Transparency ① ● ③ ④ ⑤	Seeing ① ② ● ④ ⑤ ⑥ ⑦	Limiting Visual Magnitude: 5.5 D

RNGC mentioned w/#65

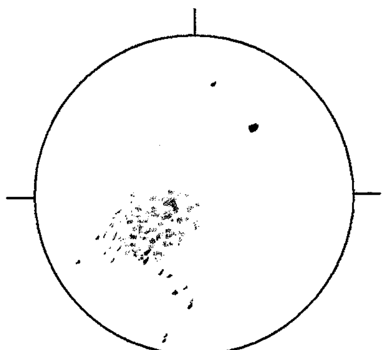
Object: N3389 + +		Cons: LEO	RA h m s
Type: GX	Mag/Size:	Chart Ref:	Dec ° m s
Instrument: XT-12	Eyepiece: 24mm	Filter:	



Notes: 150 X

← 3389 MUCH THE DIMMER & ELONG SLIGHTLY PERPENDICULAR TO OTHERS NOT MUCH DETAIL IN IT, OTHERS VERY WELL SEEN WITH LARGE NUCLEI

Object: N2477		Cons: PUP	RA h m s
Type: OC	Mag/Size:	Chart Ref:	Dec ° m s
Instrument: XT-12	Eyepiece: 24mm	Filter:	



Notes: 75X

BEAUTIFUL MOSTLY RESOLVED BUT W/ SOME BKGD GLOW IN A GREAT FIELD

CH300 p62

↑ phenomenally or-yellow

AZJO!

CH300 p95

V Ant very or-red

= prom of 10mil dile -Mas

134

WHILE THERE, M87 4476/78
ONE OF 4431/32 AND M84/86 N4438 4388
& MAYBE MORE BUT TOO HIGH FOR BACK

HERSCHEL OBSERVATIONS

LEVY 297

47 UMa

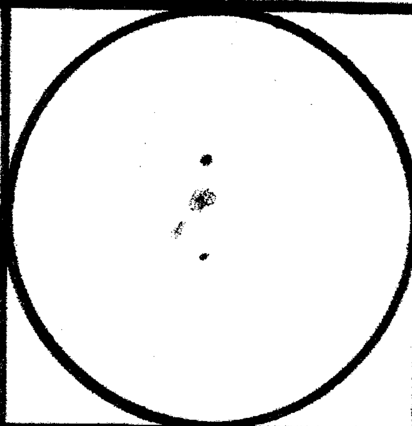
1X! QUAD

NGC 4461/58

CONST

DATE 4/14/13

TIME 5:50



SITE ACT | SEEING III | TRANS II-

INSTR 12" | EYEPIECE 2X24 | POWER 150

COMMENTS

← 4461 W/NUC, ROUND (E0)

← 4458 SMALL NO NUC, OVAL

4461 H3 # 161

SD 58

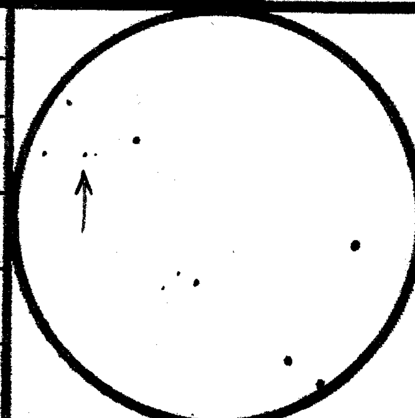
4458 H3 JEBNW/

NGC 3C273

CONST

DATE "

TIME 6:00



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

EASY SPOT - SL. MBB?

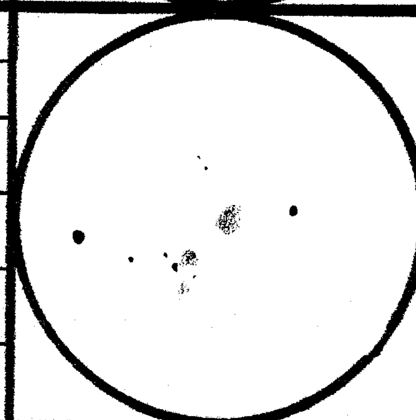
SD 59

NGC 2968+

CONST

DATE "

TIME 6:30



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

← 2964

← 2968 AV=1 ←

← 2970 AV=4

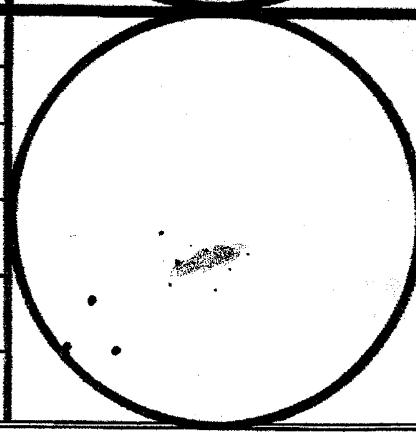
LEVY 131

NGC 3198

CONST

DATE "

TIME 6:45



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

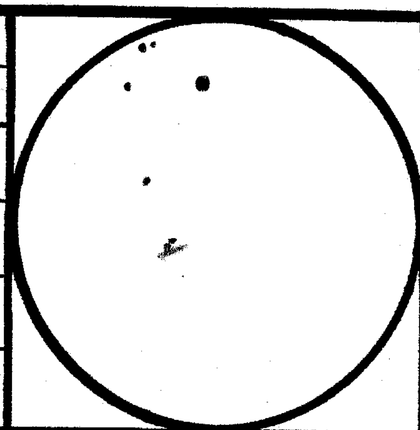
LARGE GLOW WITH FLAT E SIDE, NO NUC, SOME HINTS OF EXTENSIONS ON "HUMP" SIDE

SD 42

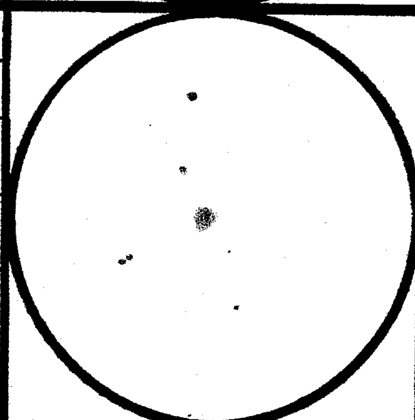
135

HERSCHEL OBSERVATIONS

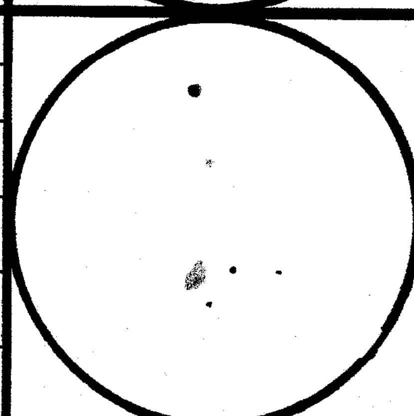
H3
#215

NGC 4818 CONST Vir DATE 7/22/12 TIME 3:40		SITE HUAH INSTR XT-12	SEEING II TRANS I- EYEPIECE 2x24 POWER
		COMMENTS Low but seen near wide dbl	

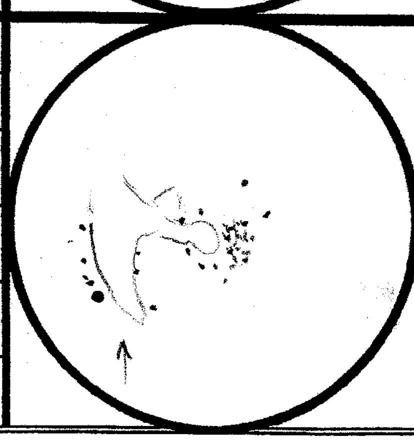
LEVY 183

NGC 4772 CONST Vir DATE " TIME 3:50		SITE INSTR	SEEING TRANS EYEPIECE POWER
		COMMENTS Nice elliptical	

LEVY 191

NGC 4713 CONST Vir DATE " TIME 4:00		SITE INSTR	SEEING TRANS EYEPIECE POWER
		COMMENTS Looks like W side not as extended	

LEVY 214

NGC 6520+ CONST B86 Sgr DATE 7/22/12 TIME 4:48		SITE INSTR	SEEING TRANS EYEPIECE POWER
		COMMENTS Very obvious DN @ →, the pool of dark that borders OC is more subtle	

FNGC ment. w/103

Observing Log

Object type: Galaxy

#3
#40

CALDWELL
#67

Object ID: NGC 1097

Const.: For

RA: ______ **Dec.:** ______

Mag: ______ **Size:** ______

Observer BY

Date 12/19/3

Time 9:00 CST

Location RNCC

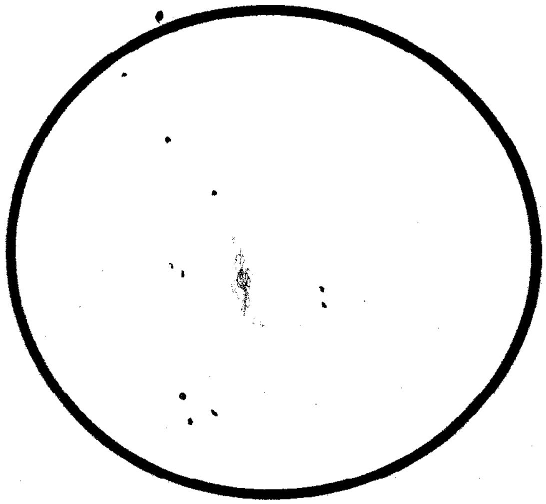
Seeing 8 **Transparency** 5+

Instrument ETX 125

Size 125

Eyepiece 40

Field of view ______ **Power** 47



- **Can this galaxy be seen with direct vision, or is averted vision required?** help define
- **What is the overall shape?** "Bar" + nucleus
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** Bar
- **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?** No

Description ______

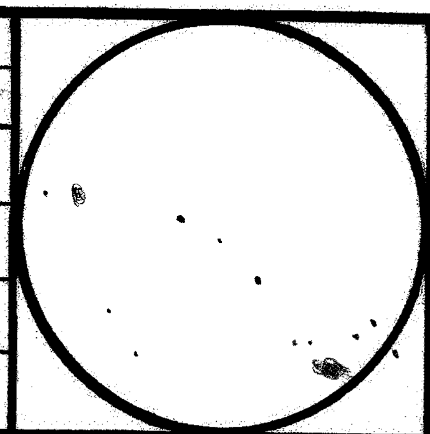
(40) 1X

HERSCHEL OBSERVATIONS

#3
#138 & #139

NGC 3923 +
CONST 3904

DATE 3/12/15
TIME 6:15



SITE ACT | SEEING II | TRANS III
INSTR 22VC | EYEPIECE 24 | POWER 100

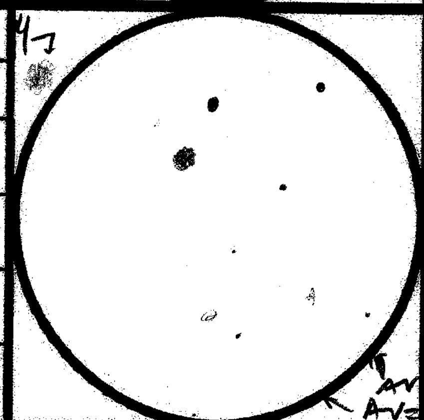
COMMENTS
← DIM OVAL 3904 (LOPSIDED)?

BRIGHT 3923 - NO ARMS

TTTV 45

NGC 5363 + 5364
CONST + 5348/ (*)
5356

DATE 3/12/15
TIME 6:40



AV 2
AV 3

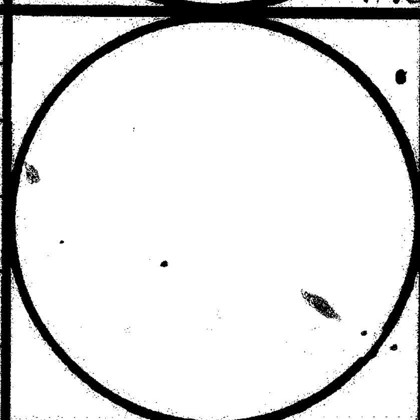
SITE ↓ | SEEING " | TRANS "
INSTR | EYEPIECE 10E | POWER 240

COMMENTS
← 5363 VERY BRIGHT OVAL
ALL GLOW W/STAR ON EDGE
5364 DIM SPIRAL HINT OF
ARMS
← 5356 SMALL DIM
← 5348 EVEN DIMMER

TTTV 72
(*) NO 5338

NGC 5746 +
CONST 5740

DATE 3/12/15
TIME 7:00



SITE ↓ | SEEING " | TRANS "
INSTR | EYEPIECE 10 | POWER 240

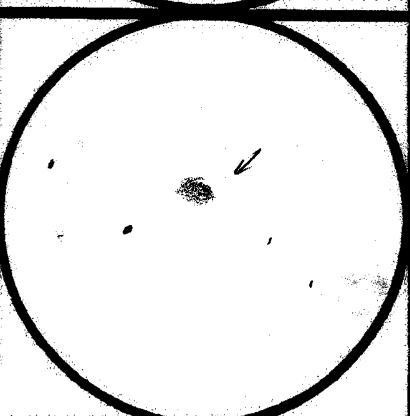
COMMENTS
← 5740 MED. OVAL GLOW

← 5746 LONG BRIGHT
EDGE-ON W/
LINE OF F/S.

TTTV 76
+
SKETCH

NGC 4420
CONST +
4409!

DATE 3/11/15
TIME 4:45UT



SITE ACT | SEEING II | TRANS III
INSTR 22VC | EYEPIECE 24 | POWER 100

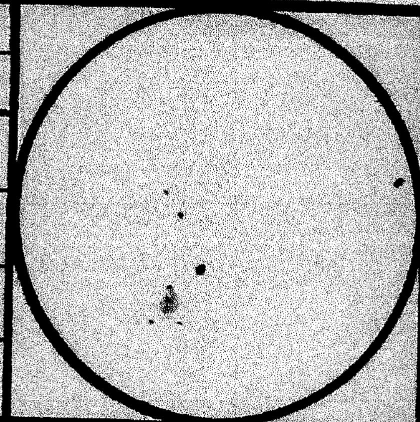
COMMENTS
OVAL SHAPED - NO NUC
BUT SMALL BLURRY "SPOT"
SEEN. SEARCHING FOR
A GEOSAT IN VIRGO
NOT AN OFFICIAL 2 OBJECTS

SUR-
PRISE
TTTV
ALT
(OR
NOT?)

(138) 55

HERSCHEL OBSERVATIONS

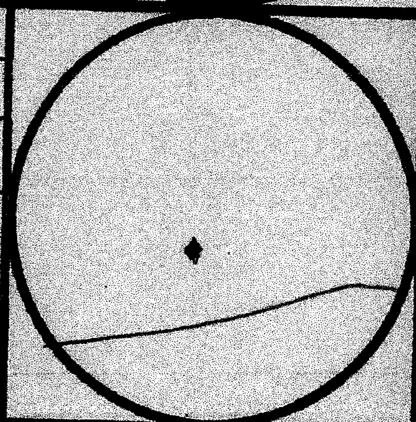
NGC 2467
CONST Pup
DATE 1/26/15
TIME 6:00



SITE Home
SEEING III TRANS II
INSTR ET2
EYEPIECE 12.5 POWER 100
COMMENTS
AV CAN GET NEB REVISIT
W/22"

SK
But
Rev

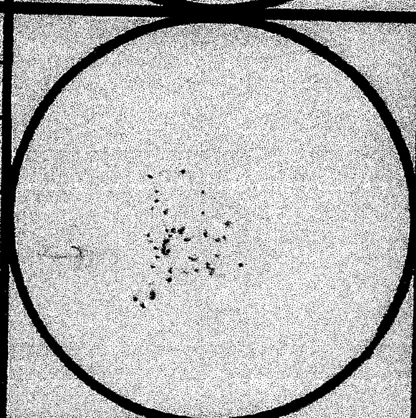
NGC γ Vel
CONST
DATE 1/26/15
TIME 6:15 UT



SITE Home
SEEING III TRANS II
INSTR 20X80
EYEPIECE — POWER 20
COMMENTS
VERY ALIVE EVEN JUST
RISING (SEE IT IN O2!)
SEE CONST FOR DBL

SK
But
Rev

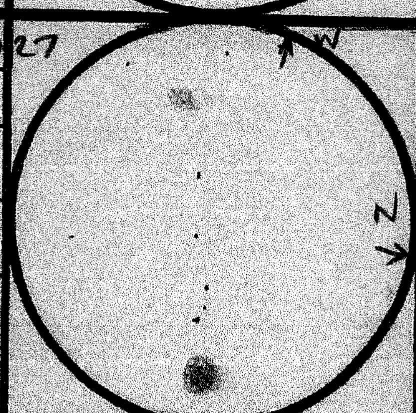
NGC 2395
CONST Gem
+PK 205+14.1
DATE 1/27/15
TIME 1:40 UT



SITE ACT
SEEING II TRANS II
INSTR 22
EYEPIECE 24 POWER 100
COMMENTS
W/O3 BRINGS OUT THE
PN REVISIT — NOT THE
CORRECT SPOT
NEAR CLUSTER!

TTTV

NGC 2985 + 3027
CONST
DATE 11
TIME 1:55 UT



SITE ↓
SEEING ↓ TRANS
INSTR
EYEPIECE POWER
COMMENTS
OVAL BRITE GAL
W/ FAINTER LENTICULAR
LOOKING GAL AFTER
SOMETHIN LINE OF FGS.

TTTV
#28

3027 = H3 #101

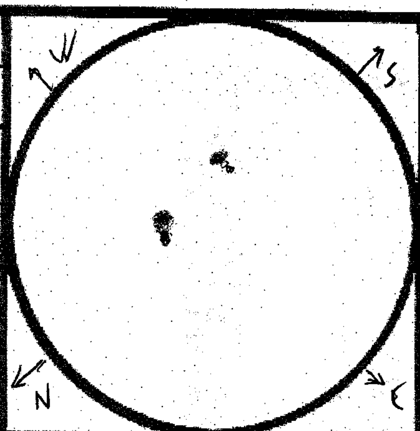
139

14

TTTV

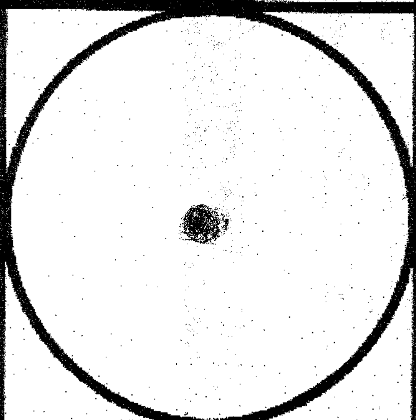
HERSCHEL OBSERVATIONS

NGC 55co
CONST Sco
DATE 9/26/14
TIME 2:00 UT



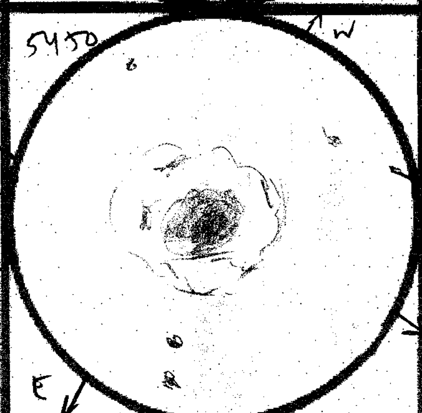
SITE OKIE-TEX SEEING II TRANS I
INSTR 22" UC EYEPIECE 24 POWER 100x
COMMENTS
← ξ Y & gold-orange TTTV
Σ 1999 Y & W

NGC M101
CONST UMA
DATE "
TIME 2:20 UT



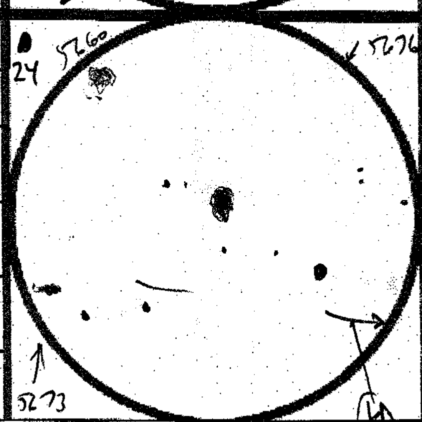
SITE " SEEING " TRANS "
INSTR 20x80 EYEPIECE — POWER 20x TTTV
COMMENTS
AWESOME IN DARK SKY

NGC M101
CONST
S
5453
5458
DATE "
TIME 2:30 UT



SITE " SEEING " TRANS "
INSTR 22UC EYEPIECE 24 POWER 100x
COMMENTS
5457 KNOTS & COMPANIONS
ALL OVER AREA
INCLUDING 5422 #3 #251
N 5473
5461 5474
5462

NGC 5676+
CONST 5660+
5673+
(BOO) IC 1029
NOT SEEN
DATE "
TIME 2:40



SITE " SEEING " TRANS " TTTV
INSTR EYEPIECE 24 POWER "
COMMENTS
5676 BRIGHT EASY W/DETAIL
5660 NKE-NUC
5689 MOTTLE
5673 ELONG -
MISSED IC 1029 NEAR IT
5689 COMPACT NUC 35
SATELLITE

-15
11 M A
SAT

p140

& SPIRAL AREA SEEN, BUT NONE OF ITS COMPANIONS

TRIO
#49

Observing Log

Object Type: Galaxy Group or Galaxy Cluster

Object ID: 7769 Δ

R.A.: ____________

Dec.: ____________

Magnitude: ____________

Const.: ____________

Observer: B. Young

Date: 9/20/9

Time: 9:55

Location: Okie-Tex

Seeing: II

Transparency: I-

Faintest Naked Eye Star: 6.5

Instrument: XT-12

Aperture and Focal Length: 12" 1500mm

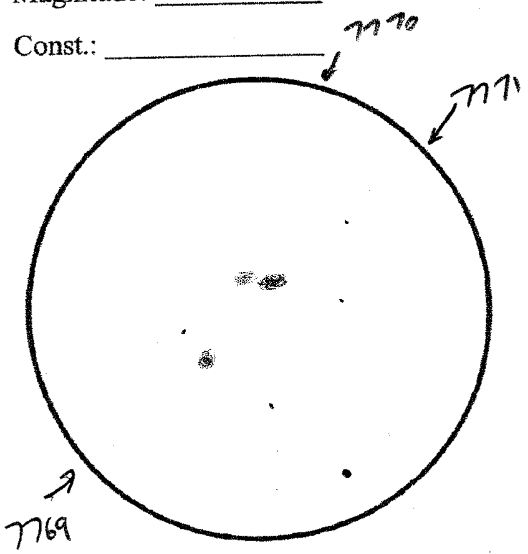
Eyepiece: 10mm

Magnification: 150

Field of view: 0.93

No. of averted vision galaxies: 0

No. of direct vision galaxies: 3



* 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. small ~ 0.1°

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

* 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? Yes, no

Description ____

(McGown, Cole-Huston, Pratt 2000)

7771 = H3
#298

141

Observing Log
Object type: Galaxy

H3 #44

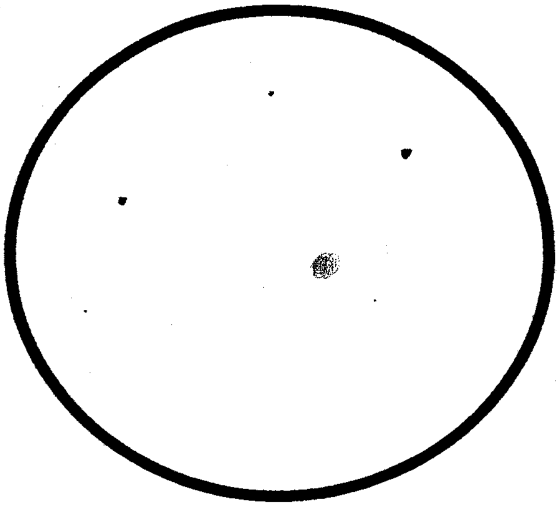
FNGC 21

Object ID: NGC 1232

Const.:

RA: **Dec.:**

Mag: **Size:**



Observer BY

Date 3/11/5

Time 7:50

Location RMCC

Seeing III **Transparency** I-

Instrument ETX

Size 125

Eyepiece 25

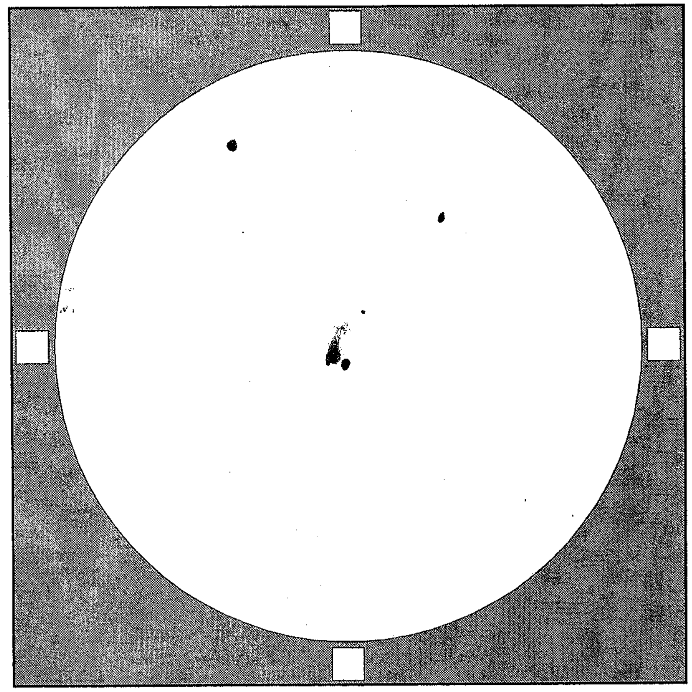
Field of view **Power** 73

- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Oval
- **Is a core noticeable?** Stellar
- **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?** No

Description Low - but I get no detail - 153x no help

P35

NGC Number		**3003**	
Constellation		**Leo Minor**	
Type		**G-Sbc?**	
Visual Magnitude**		**11.9**	
Size	Distance	**5.2' x 1.6'**	**62 million ly**
R.A. (Epoch 2000.0)		**09:48.6**	
Dec. (Epoch 2000.0)		**+33:25**	
UM I	UM II	**104**	**56**
Sky Atlas 2000		**6**	
Season		**Spring**	
Remarks***		**faint elongated streak**	
Date	4/22/12 Time	5:30	
	Seeing	1 2 3 4 5	
Transparency		1 2 3 4 5	
Telescope		12"	
Eyepiece	Magnification	2x24	
Observing Location		RMCC	



Notes

Nice teardrop glow near field star, with extensions on other side

PN: Planetary Nebula	RN: (diffuse) Reflection Nebula	Seeing: 1 = Best 5 = Poor	* = Number of stars in cluster
SNR: Supernova Remnant	EN: (diffuse) Emission Nebula	Transparency: 1 = Best 5 = Poor	** p = Photographic Magnitude
GC: Globular Cluster	G-: Galaxy, with Hubble type given	Time: DD:MM:YYYY	*** !! = Showpiece Object
OC: Open Cluster	E/RN: Diffuse emission and reflection Nebula	Date: Specify Time Zone or UT	http://www.rasc.ca

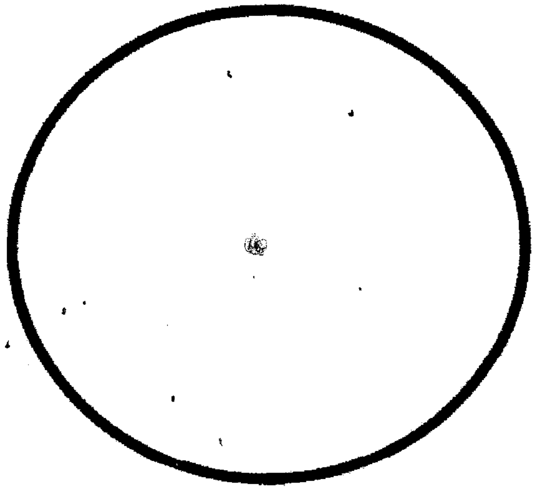
H3
#94

Object ID: N 125 L

Const.:

RA: **Dec.:**

Mag: **Size:**



Observer B. Yang

Date 10/5/10

Time 11:25

Location Okie-Tex

Seeing II **Transparency** II

Instrument XT-12

Size 12

Eyepiece 10

Field of view 0.3 **Power** 150x

Isolated Area

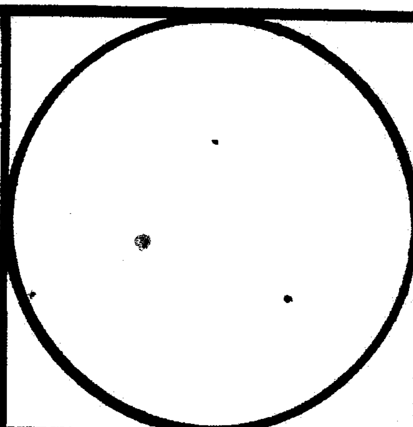
- **Can this galaxy be seen with direct vision, or is averted vision required?**
- **What is the overall shape?** Round
- **Is a core noticeable?** Yes
- **Is the core compact or stellar?**
- **Can any detail be seen between the core and the outer envelope of the object?** No
- **Are the edges of the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

Description

144

HERSCHEL OBSERVATIONS

NGC 4459
CONST

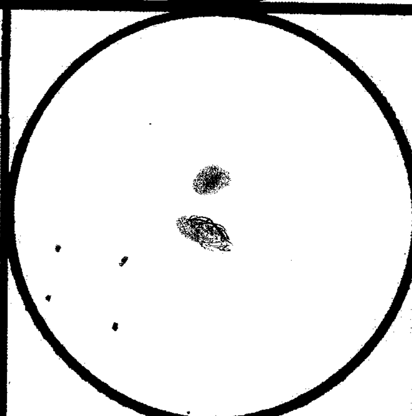


DATE 7/22/17
TIME 3:30 UT

SITE ACT | SEEING II | TRANS II
INSTR 22 VC | EYEPIECE 10 | POWER 240

COMMENTS
Small, round glow

NGC 3894/5
CONST

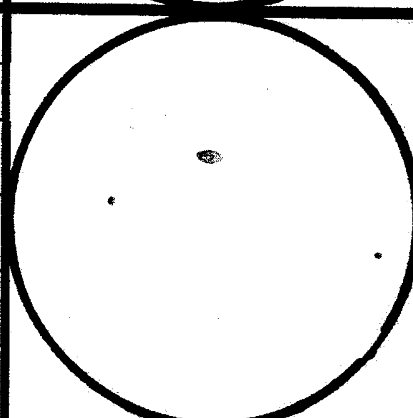


DATE "
TIME 3:50

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
BEAUTIFUL PAIR, one tipped &
LARGER but SB less, other
oval, star & nuc seen

NGC 5253
CONST

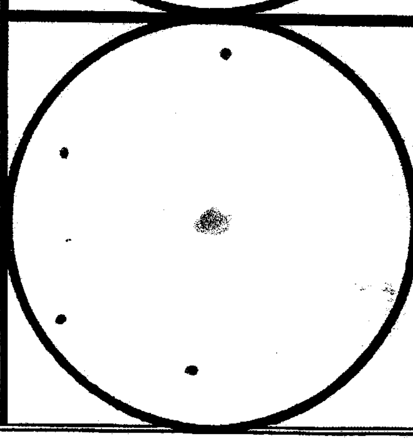


DATE "
TIME 4:00

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
VERY LOW
BUT SEEN – MATCHES ALADIN
CHART IN HUEY IS BAD

NGC 4914
CONST



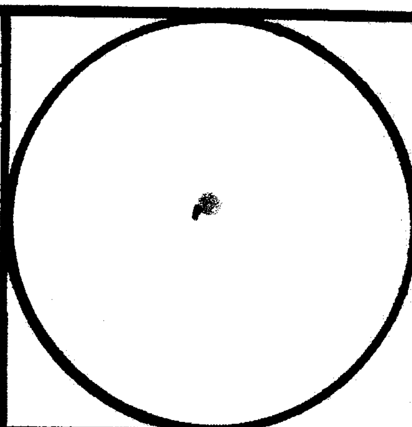
DATE "
TIME 4:10

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
EB, LN, round

HERSCHEL OBSERVATIONS

NGC	5748
CONST	
DATE	7/22/17
TIME	4:30



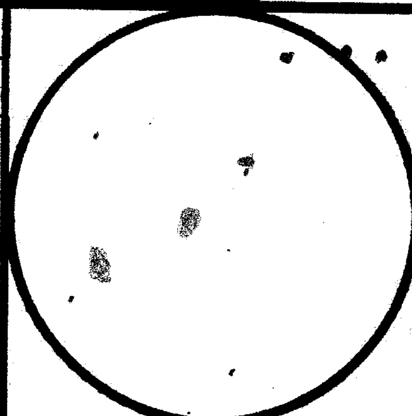
SITE	SEEING	TRANS
ACT	II	II
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

COMMENTS

Small rand glow right

on a FS

NGC	5221
CONST	
DATE	''
TIME	4:40



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

L,D ST N5221 WHAT A FLD!

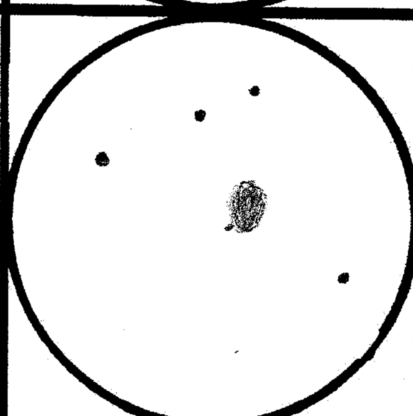
(NO HINT OF "BLOW OFF"

↖ SL S,D N5222

← SB L,D, lent? N5230

ACTUALLY "OCTOPUS"

NGC	~~5349~~
CONST	5351
DATE	''
TIME	4:50



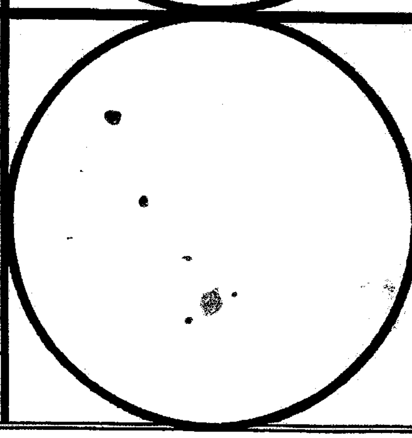
SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

Even glow w/great FS

5349 missed

NGC	5337
CONST	
DATE	''
TIME	5:00



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

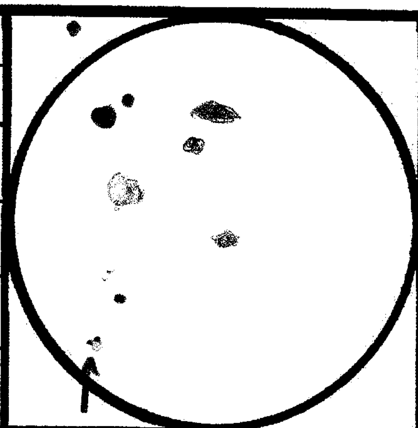
SL BAR ? in round glow

NO, TIPPED

[redacted]

HERSCHEL OBSERVATIONS

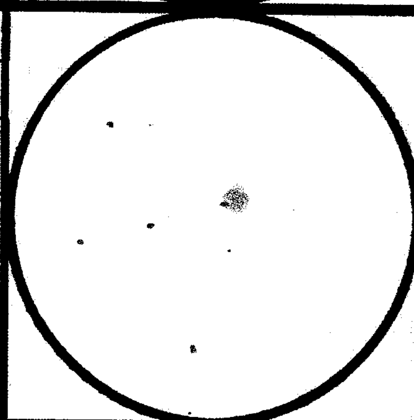
NGC 5358+3
CONST
DATE 7/22/17
TIME 5:10



SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
AMAZING FOURSOME
↖ ELONG, B, SUBTLE HINT OF ARMS LEFT N5353
↖ MB, round, nuc N5354 ELLIP
↖ L, dim, nuc seen N5350 FACE
↖ small, oval, perhaps edge is mostly N5358
← dbl star

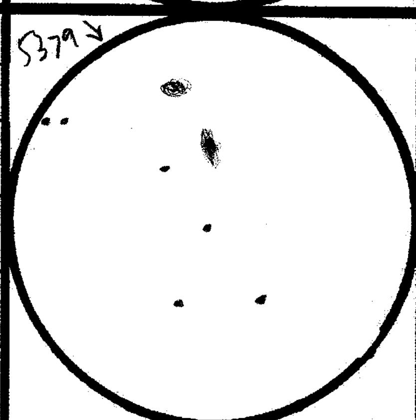
NGC 5376
CONST
DATE 〃
TIME 5:20



SITE ↓ | SEEING | TRANS
INSTR ↓ | EYEPIECE ↓ | POWER

COMMENTS
pS, dim, next to FS
✓

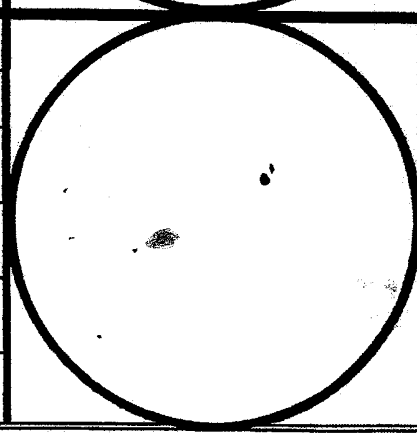
NGC 5389
CONST ↘
DATE 〃
TIME 5:30



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
Both oval, tipped w/ nuc
& some hints on edges
✓✓

NGC 5402
CONST
DATE 〃
TIME 5:40

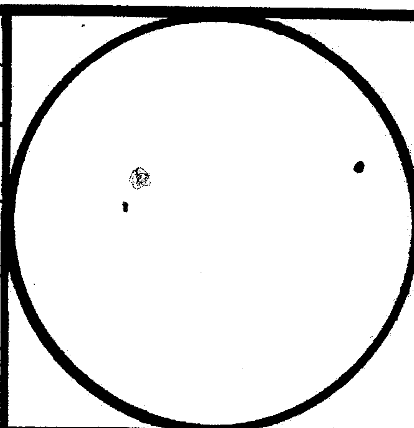


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
1 WIDE FIELD FROM ↖
ALSO TIPPED, NUC NOT SO EVIDENT
✓

HERSCHEL OBSERVATIONS

NGC 4424
CONST
DATE 7/23/15
TIME 3:00 out

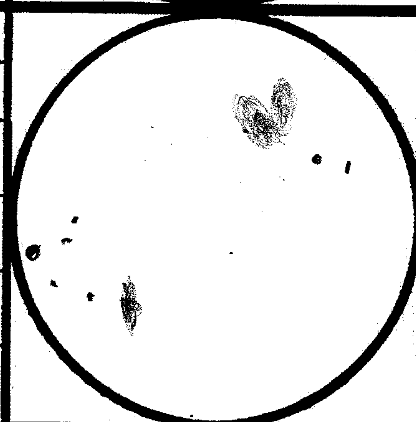


SITE ACT | SEEING II | TRANS II
INSTR. 22 VC | EYEPIECE 10 | POWER 240

COMMENTS

VF R, with some mottling
nuc only

NGC 4567/8/4
CONST
DATE 〃
TIME 3:10 out

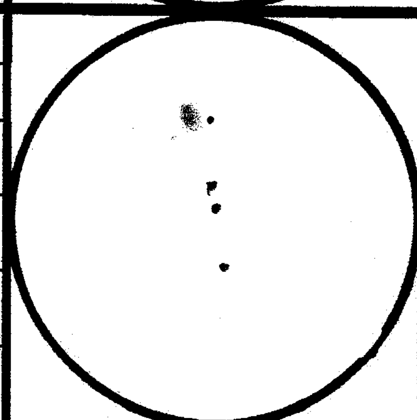


SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

MAGNIFICENT FIELD!
↖ DISTORTED SPIRAL W/ NUC
↖ ALSO SAME BUT BIGGER "WAVED"
AT JOINT END, W/ CLEAR "V" OPENING
← 4564 S, but just as B
large nuc, blunt glow, highly tapered

NGC 4612
CONST
DATE 〃
TIME 3:20

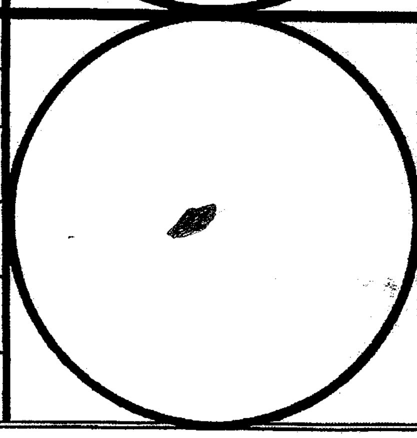


SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

A bit dim but nice FS
round glow

NGC 4623
CONST
DATE 〃
TIME 3:30



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

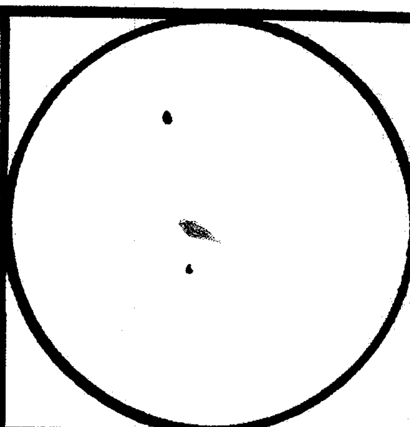
COMMENTS

"Flying saucer"

148

HERSCHEL OBSERVATIONS

NGC	5733
CONST	
DATE	7/23/17
TIME	3:40

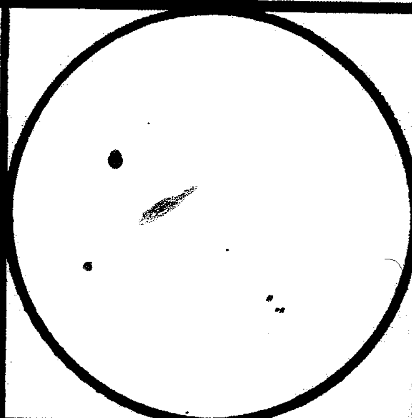


SITE	SEEING	TRANS
ACT	II	III
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

COMMENTS

NICE SPIRAL, ONE SIDE LONGER
EAST SIDE IS INDEED
& HIGHLY TIPPED

NGC	5690
CONST	
DATE	"
TIME	3:50

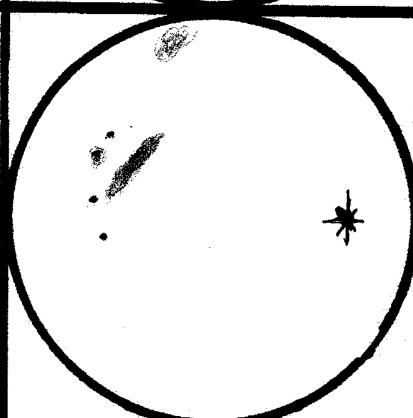


SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**
	10	

COMMENTS

NEARLY FLAT - I WONDER
IF I EVER MIXED UP THIS
WITH 5746

NGC	5746
CONST	& 5740
DATE	"
TIME	4:00

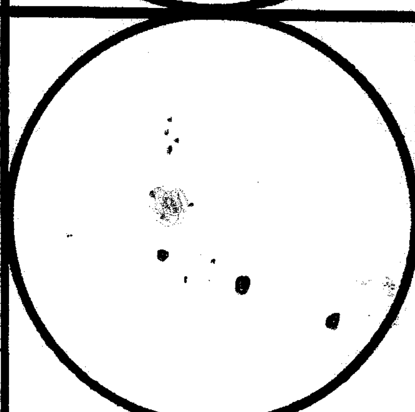


SITE	SEEING	TRANS
	"	"
INSTR	**EYEPIECE**	**POWER**
	24	"

COMMENTS

← 5740
WHAT A FIELD!
← 5746

NGC	6412
CONST	
DATE	"
TIME	4:20



SITE	SEEING	TRANS
	"	"
INSTR	**EYEPIECE**	**POWER**
	10	"

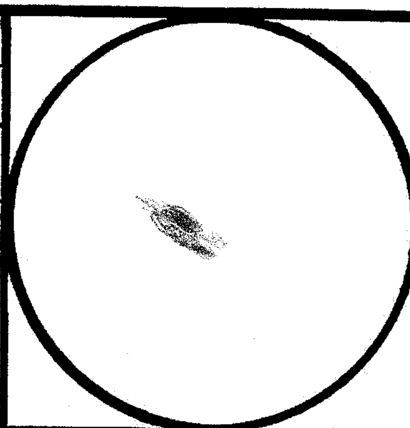
COMMENTS

BEAUTIFUL FACEON SPIRAL
I THINK, LARGE GLOW W/
FAINT ARMS THICK
3 FS ON FACE, GREAT FS
AROUND

[redacted]

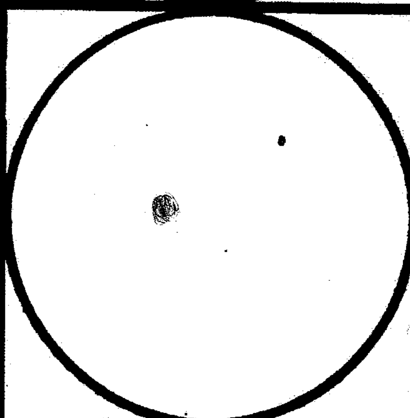
HERSCHEL OBSERVATIONS

NGC M102	SITE ACT	SEEING II TRANS II
CONST	INSTR 22UC	EYEPIECE 10 POWER 240
DATE 7/23/17	COMMENTS	
TIME 4:40		



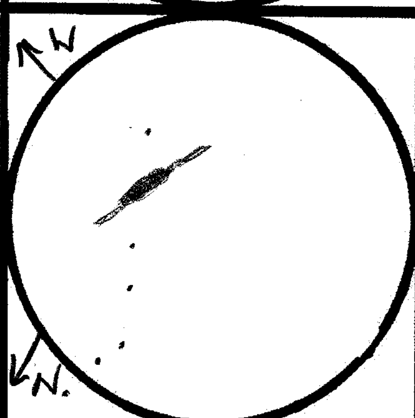
COMMENTS:
DEFINITELY SAW SPLIT
IN E SIDE OF ARMS
NO ONE ELSE HAD !

NGC 5963	SITE ↓	SEEING TRANS
CONST	INSTR	EYEPIECE ↓ POWER
DATE "	COMMENTS	
TIME 4:50		



COMMENTS:
Strange round glow
very Diluted
REVISIT N5965 IN FLD!

NGC 5907	SITE ↓	SEEING TRANS
CONST	INSTR	EYEPIECE ↓ POWER
DATE "	COMMENTS	
TIME 5:00		



COMMENTS:
FLAT & B, LARGE
NUC, LOTS OF MOTTLING
PA=160°

NGC	SITE	SEEING TRANS
CONST	INSTR	EYEPIECE POWER
DATE	COMMENTS	
TIME		

[redacted]

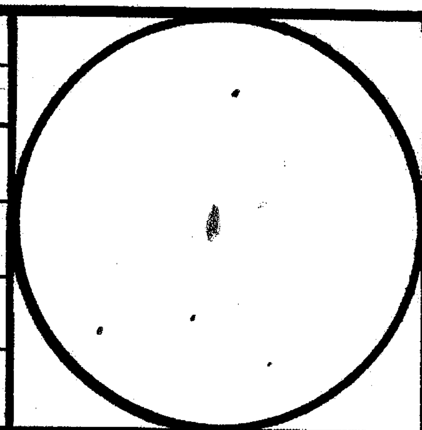
HERSCHEL OBSERVATIONS

NGC 63

CONST

DATE 10/19/17

TIME



SITE ACT | SEEING | TRANS

INSTR | EYEPIECE 10 | POWER

COMMENTS

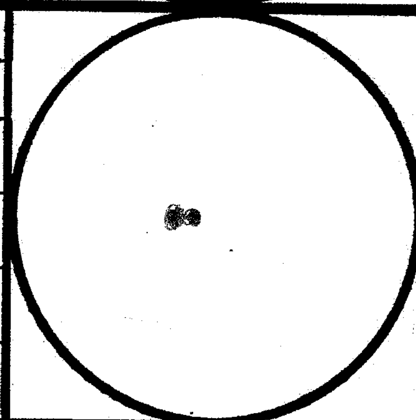
NEW TO ME

NGC 7284/5

CONST

DATE

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE 10 | POWER

COMMENTS

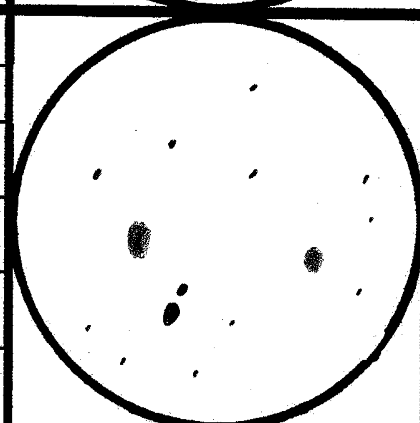
SEPARATED

NGC 499+

CONST

DATE

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE 24 | POWER

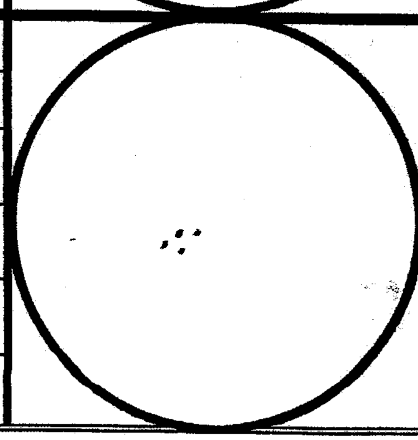
COMMENTS

~~NGC~~ M73

CONST

DATE

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

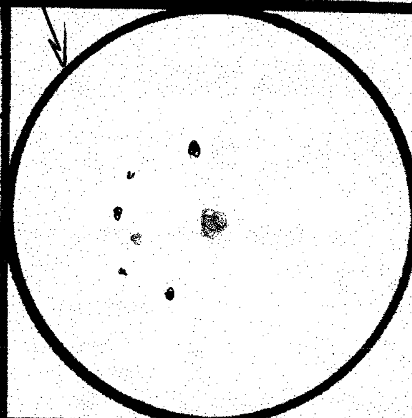
ALSO M72/11/13/17/16/

THEN TOO COLD!

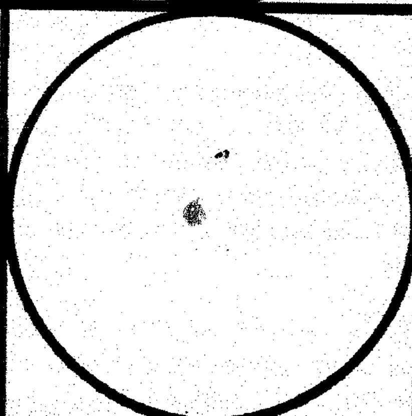
828 . 829 1X

HERSCHEL OBSERVATIONS

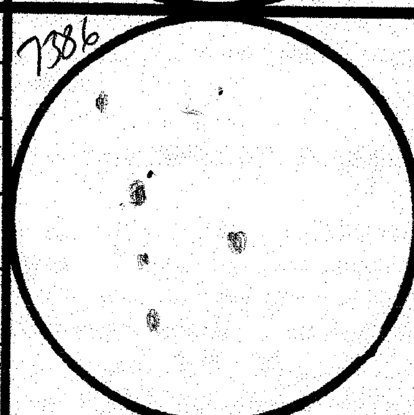
778

NGC 778		SITE ACT	SEEING I TRANS I
CONST		INSTR 22UC	EYEPIECE 10 POWER 240
DATE 12/11/17		COMMENTS ← 777 HAD MISSED W/777 - V.FT & SMALL	
TIME 0130			

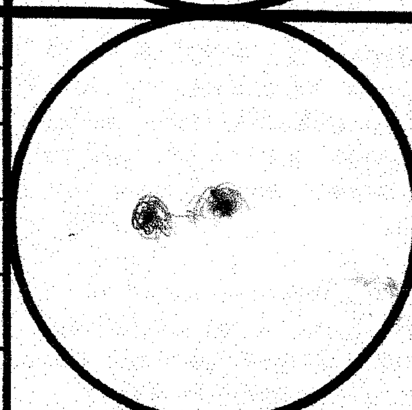
SEEN W/ #3 #28

NGC 783		SITE	SEEING TRANS
CONST		INSTR	EYEPIECE POWER
DATE "		COMMENTS EASILY SEEN NEAR FT DBL	
TIME 1:00			

VERY NEAR #28 NOT ON LIST

NGC 7381 + 7385	 7386	SITE	SEEING TRANS
CONST		INSTR	EYEPIECE POWER
DATE 12/11/17 7389		COMMENTS ↖7387 FLD AS I REM 7383 IT BUT ITS ALWAYS TRICKY TO ID THEM	
TIME 2:30 7390			

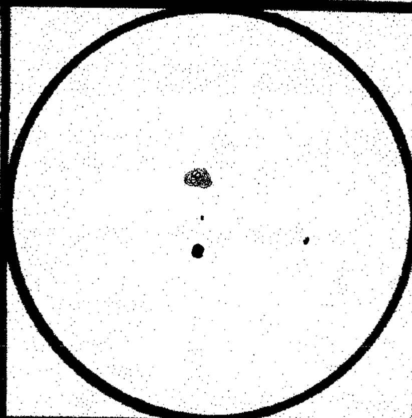
SEEN W/ #3 #289

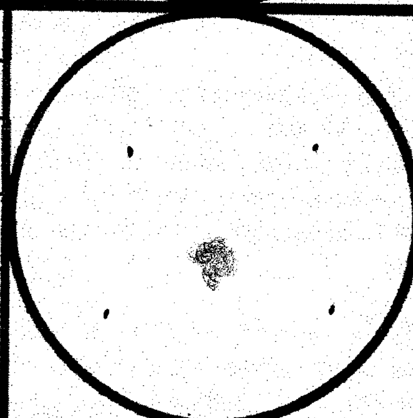
M 78		SITE	SEEING TRANS
CONST		INSTR	EYEPIECE POWER
DATE "		COMMENTS SHOWN MICHAEL	
TIME 3:00			

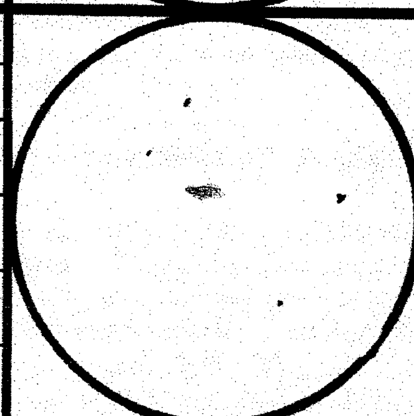
0:28 UT L=+1 Vega 100X 0:34 UT

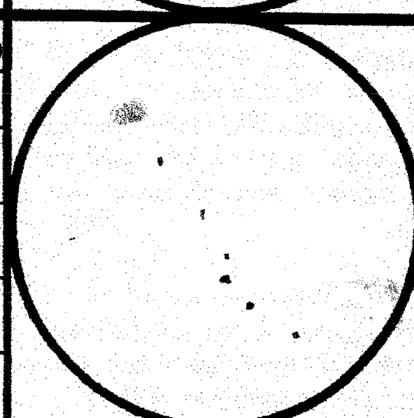
Azr K

HERSCHEL OBSERVATIONS

NGC 7302		SITE ACT	SEEING II / TRANS II
CONST		INSTR 22 UC	EYEPIECE 10 / POWER 240
DATE 11/24/17		COMMENTS NICE OVAL	
TIME 0:30			H3 286

NGC 7300		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
DATE 11		COMMENTS STRANGE SHAPE W/ TAIL "	W 286
TIME 0:40			

NGC 7298		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
DATE 11		COMMENTS SM, LARGE NUC	W 286
TIME 0:50			

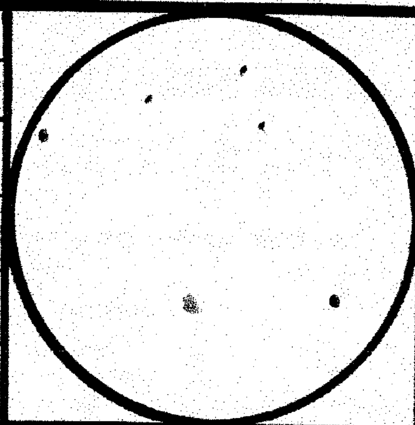
NGC 7576		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
DATE 11		COMMENTS NICE GLOW W/ LINE	W 2585
TIME 1:00			

153

1:15 ↘ NOSS IN And 1:17:34 EOL both +1→5 mam 1x

HERSCHEL OBSERVATIONS

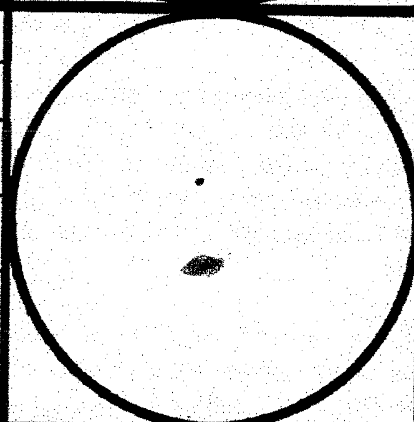
NGC 7592
CONST
DATE 11/24/17
TIME 1:15



SITE Act | SEEING II | TRANS III
INSTR 22JC | EYEPIECE 10 | POWER 240
COMMENTS
SMALL

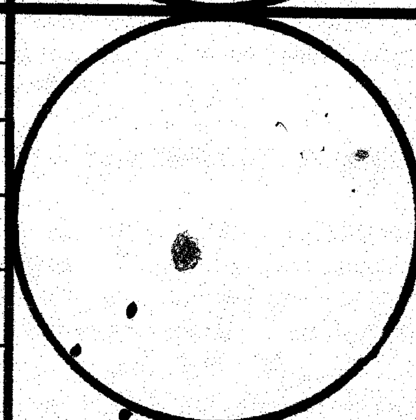
W 292

NGC M77
CONST
DATE "
TIME 1:30



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
LARGE, B, BAR

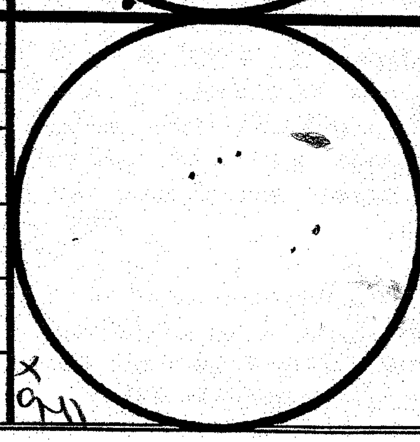
NGC 936/941
CONST
DATE "
TIME 1:45



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
←941 SMALL ELLIP
←936 LARGE ELLIP

H3 36 + W 36

NGC 955
CONST
DATE "
TIME 2:00



x 941

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
4x1 NEXT TO LINE OF F. S.

H3 35

154

0125151 Fde. EPSC

← -4 L!

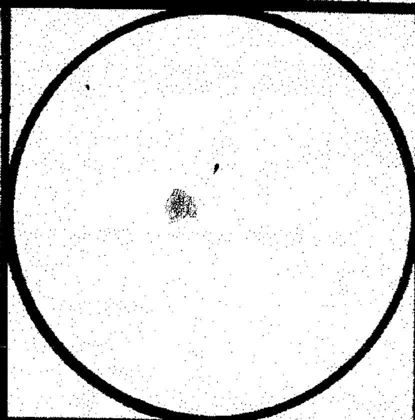
1x

HERSCHEL OBSERVATIONS

d 7 GA

NGC 95

CONST



DATE 11/26/17

TIME 0:40

SITE ACT | SEEING III | TRANS II (moon)

INSTR 22VC | EYEPIECE 10 | POWER

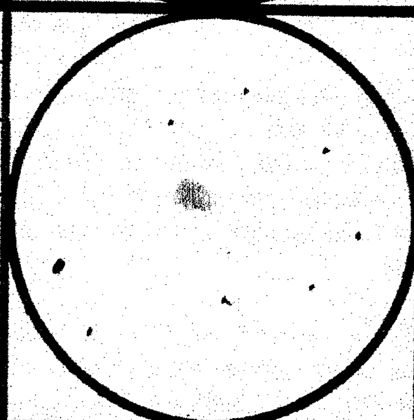
COMMENTS

LARGE, DIM

H3
2

NGC 63

CONST



DATE 11

TIME 0:50

SITE | SEEING | TRANS

INSTR ↓ | EYEPIECE ↓ | POWER

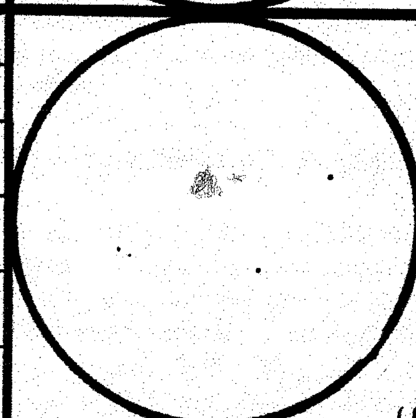
COMMENTS

MED, DIM

NEARBY

NGC 442/450

CONST



DATE 11

TIME 1:10

SITE ↓ | SEEING | TRANS

INSTR | EYEPIECE ↓ | POWER

COMMENTS

← 450 TINY

← 442 LARGE

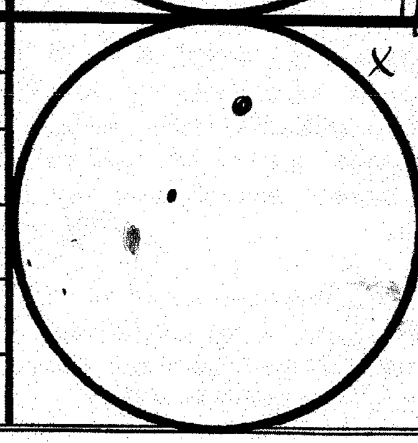
X

H3 10

+ W 10

NGC 467

CONST



X

DATE 11

TIME 1:30

X 470

SITE 474 pair | SEEING | TRANS

INSTR ↓ | EYEPIECE ↓ | POWER

COMMENTS

MED ELIP

W
12&13

155

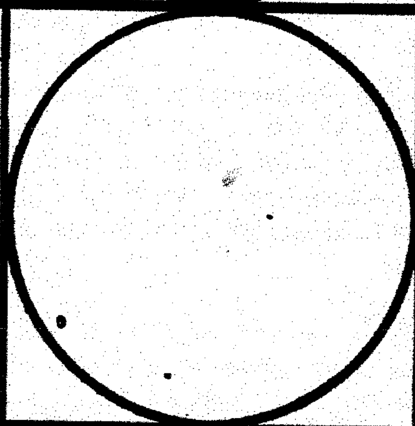
LG, FAINT, ELONG

DATE 11/24/17

TIME 2:05

NGC 1376

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

H3 51

COMMENTS

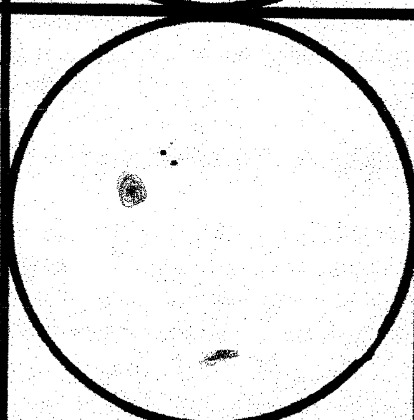
TINY & DIM

DATE "

TIME 2:15

NGC 1355/1358

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

H3 50 & W50

COMMENTS

← 1358 LG, B NUC WITH OVAL SPIRAL

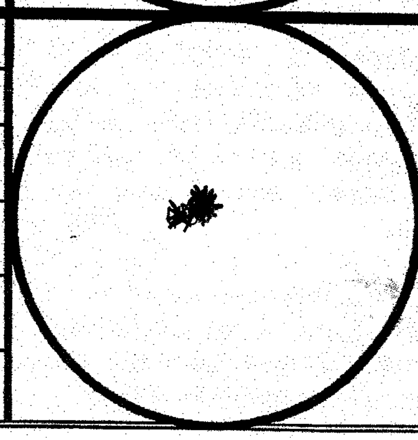
← 1355 ELONG, 3X1

DATE "

TIME 2:30

NGC α Psc

CONST



SITE ACT | SEEING IV | TRANS II

INSTR 22WC | EYEPIECE 10 | POWER 240

COMMENTS

RA ~260 4 + 6 W's

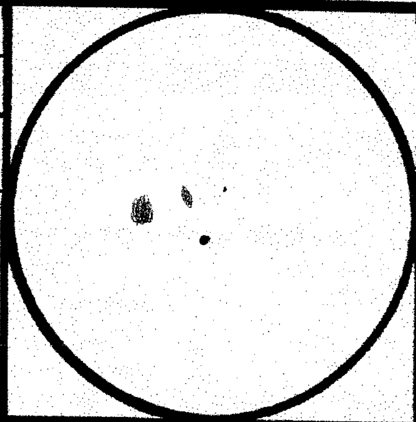
small gap

DATE "

TIME 2:45

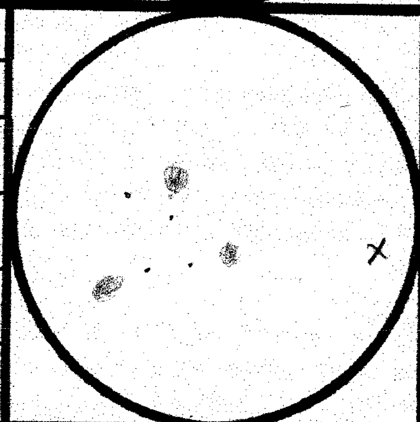
HERSCHEL OBSERVATIONS

NGC 1241/1242	SITE ACT	SEEING III — TRANS II
CONST	INSTR 22UC	EYEPIECE 10 — POWER 240
DATE 11/26/17	COMMENTS	
TIME 3:20	LOVELY PAIR F/O8 LENA	



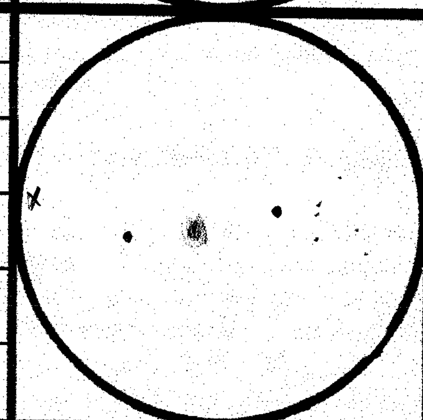
H3 45 & SW 45

NGC 1441/49/51	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE — POWER
DATE "	COMMENTS	
TIME 3:30	GREAT Δ!	
	← NE, OVAL	
	← ONE, OVAL	
	← FAINT	



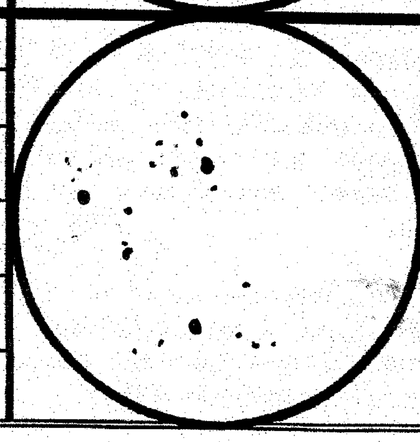
SWEPT WITH H53

NGC 1453	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE — POWER
DATE "	COMMENTS	
TIME 3:45	X = pos above	

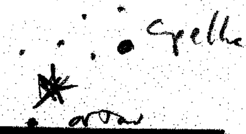


H 53

NGC	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE — POWER
DATE "	COMMENTS	
TIME 4:09	"37" Cluster	

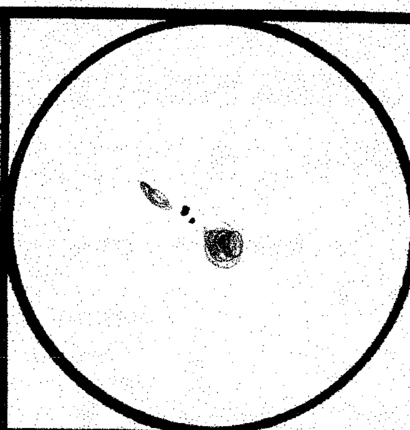


0 ♀ LR



HERSCHEL OBSERVATIONS

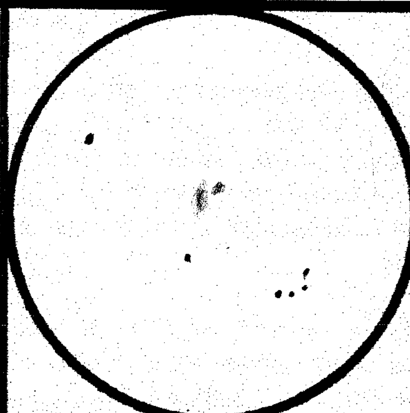
NGC 4426/7
CONST
DATE 5/5/18
TIME 9:45



SITE ACT | **SEEING** II | **TRANS** III
INSTR 22 JC | **EYEPIECE** 10E | **POWER** 240

COMMENTS
WONDERFUL SPIRAL W/
BLOCK GLOW ACROSS 2 FS

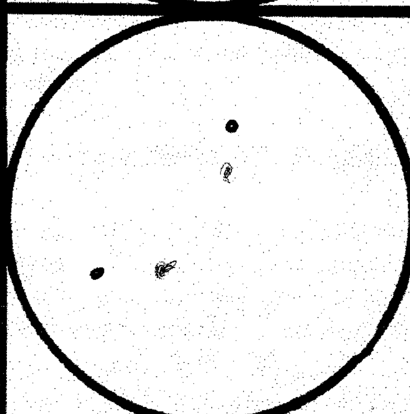
NGC 4731 + A
CONST
DATE "
TIME 2:55



SITE ↓ | **SEEING** | **TRANS**
INSTR | **EYEPIECE** ↓ | **POWER**

COMMENTS
WONDERFUL "BAR" W/GLOW
+ SMALL AUX GLOW

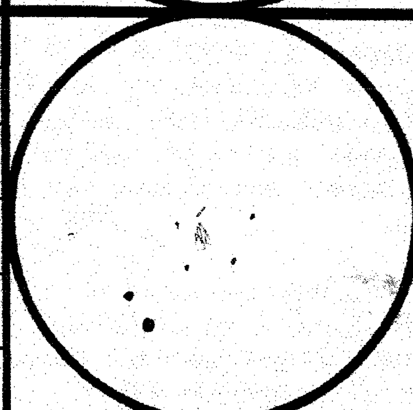
NGC 4862/3
CONST
DATE "
TIME 3:10



SITE ↓ | **SEEING** ↓ | **TRANS**
INSTR | **EYEPIECE** | **POWER**

COMMENTS
PAIR OF SMALL GLOWS
NEAR FS, IN A PATTERN

NGC 2574
CONST
DATE "
TIME 3:20



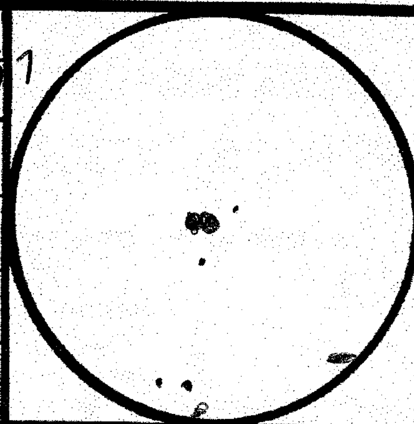
SITE ↓ | **SEEING** ↓ | **TRANS**
INSTR | **EYEPIECE** | **POWER**

COMMENTS
NICE GLOW IN NEST
OF STARS

2667

HERSCHEL OBSERVATIONS

NGC 2672+A	SITE ACG	SEEING II	TRANS III
CONST + 73+2667	INSTR 12 UC	EYEPIECE 10E	POWER 240
DATE 5/5/18			
TIME 3:30			



COMMENTS

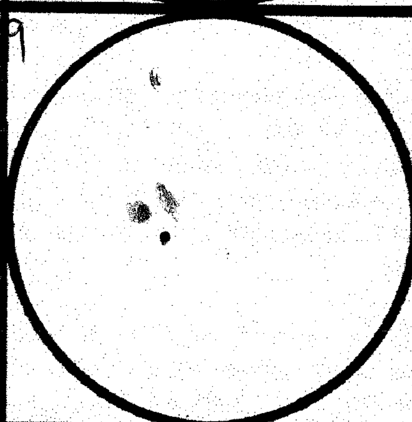
ELLIPTICAL W/NEARLY

EVEN ONE RIGHT ON IT

ELONG & ELLIP IN

FIELD

NGC 2698/2699	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "			
TIME 3:40			



COMMENTS

BEAUTIFUL TRIPLET, ROUND

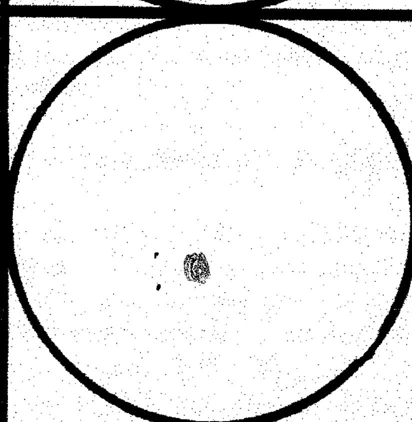
GLOW, ELONG, SMALL

OV "SPOT" (UNKNOWN NAME)

+ FS NEXT TO BRIGHT

PAIR

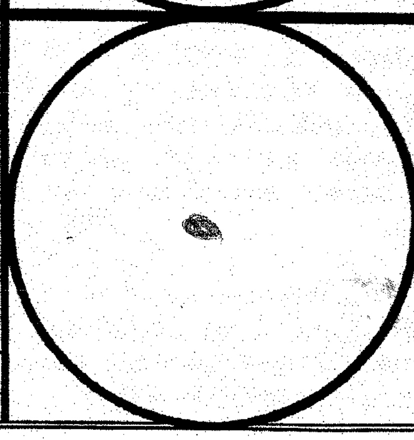
NGC 3045	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "			
TIME 3:50			



COMMENTS

ROUND GLOW, NO DETAIL

NGC 3085	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
"			
DATE "			
TIME 4:00			



COMMENTS

OVAL GLOW, VERY

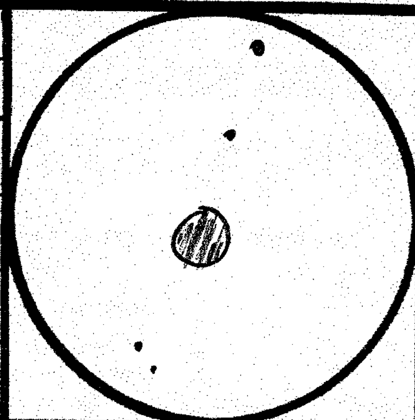
ISOLATED

REVISIT — LENTICULAR

W/ COOL FS GROUP

HERSCHEL OBSERVATIONS

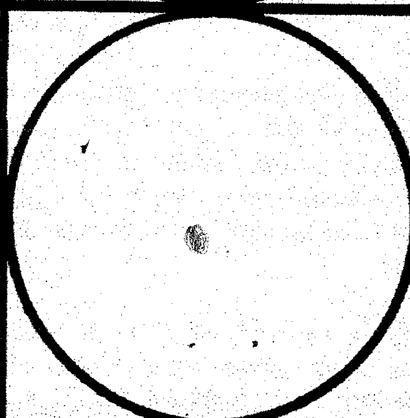
NGC	2[illegible]
CONST	
DATE	5/5/18
TIME	4:15



SITE	ACT	SEEING	II
		TRANS	II
INSTR	22UC	EYEPIECE	~~[illegible]~~ 10
		POWER	240

COMMENTS

NGC	~~2905~~
CONST	
DATE	〃
TIME	4:20

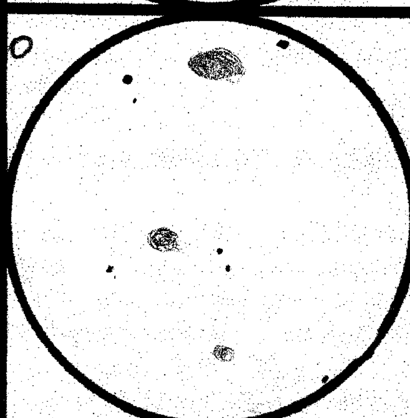


SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

~~OVAL GLOW, NO DETAIL~~
~~DULL FIELD~~
~~REVISIT~~

NGC	2964/68/70
CONST	
DATE	〃
TIME	4:30

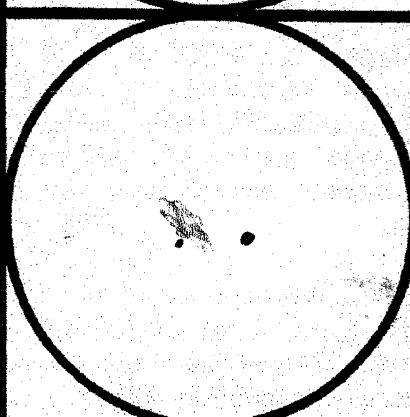


SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

MAGNIFICIENT LINE OF 3
LARGE OVAL, MED OVAL,
SMALL ROUNDER GLOW W/
HINT OF NUC

NGC	3013
CONST	
DATE	〃
TIME	4:40

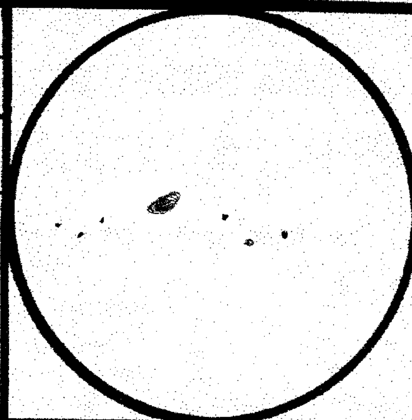
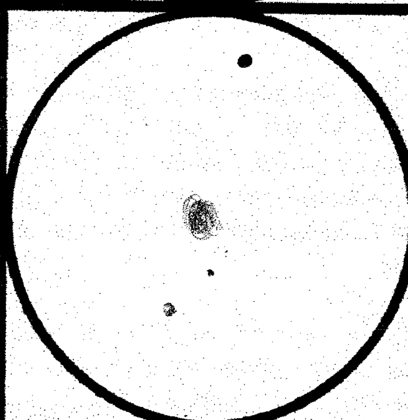
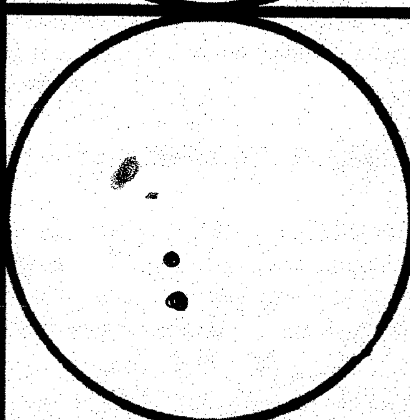
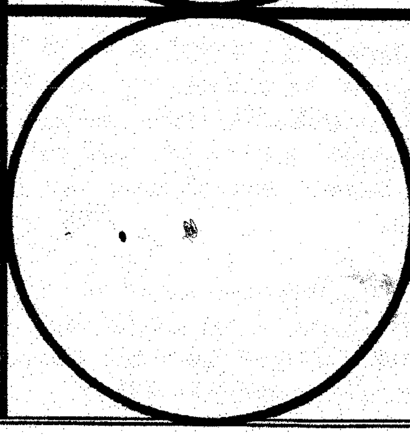


SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

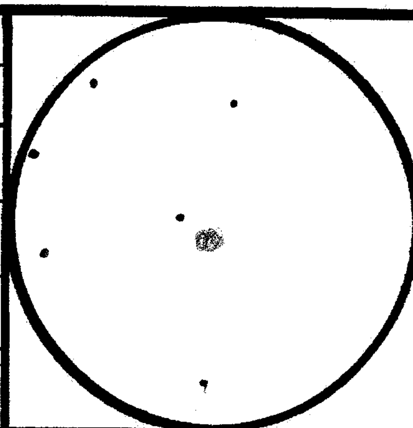
ODD "DOUBLE MEAT"
LOOK TO IT

HERSCHEL OBSERVATIONS

NGC 3091/6		SITE ACT; SEEING II; TRANS III
CONST		INSTR 22UC; EYEPIECE 10; POWER 240
DATE 5/5/18		COMMENTS LARGE OVAL W/COMPACT NUC, TINY GLOW
TIME 4:45		
NGC 2537+A		SITE; SEEING; TRANS
CONST		INSTR; EYEPIECE; POWER
DATE "		COMMENTS LARGER SCALE REPEAT
TIME 4:55		
NGC 2798/99		SITE; SEEING; TRANS
CONST		INSTR; EYEPIECE; POWER
DATE "		COMMENTS NICE PAIR NEXT TO GREAT WIDE PAIR FS
TIME 5:05		
NGC 4543		SITE; SEEING; TRANS
CONST		INSTR; EYEPIECE; POWER
DATE "		COMMENTS SMALL, NO SHAPE
TIME 5:15		

HERSCHEL OBSERVATIONS

NGC	4708
CONST	
DATE	6/2/18
TIME	3:00 A

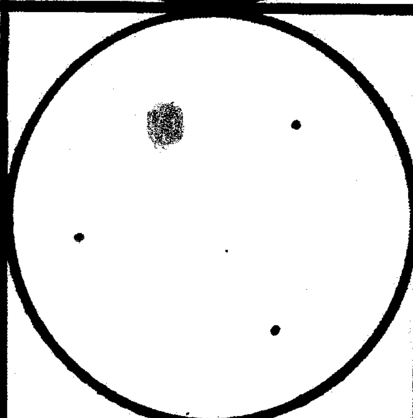


SITE	SEEING	TRANS
ACT	II	III
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

COMMENTS

NO SIGN OF THE SHORT ARMS BUT SEEN WELL AS ROUND COMPACT GLOW

NGC	2805
CONST	
DATE	"
TIME	3:10



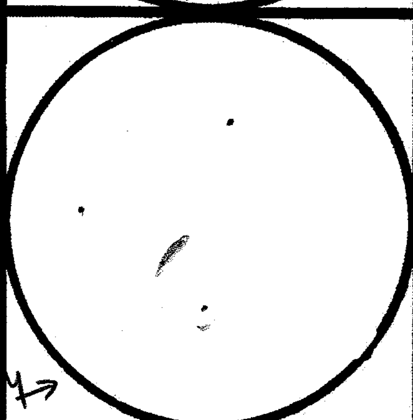
SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

BRIGHT NUC SEEN

NO ARMS DISTINGUISHED

NGC	2820/14
CONST	
DATE	
TIME	3:20 2814→



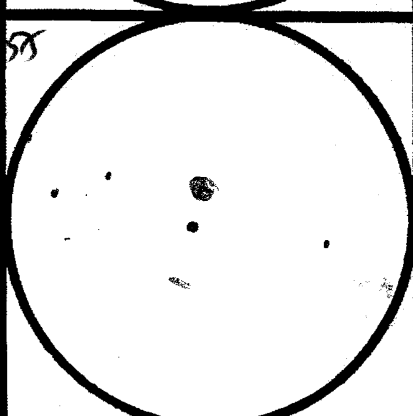
SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

NO IC, OTHERS SEEN, NO
←2820 LONG DETAIL
SWIPE OF GLOW

2814 JUST SEEN, SMALL ELONG GLOW

NGC	3454/3455
CONST	
DATE	"
TIME	3:35



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

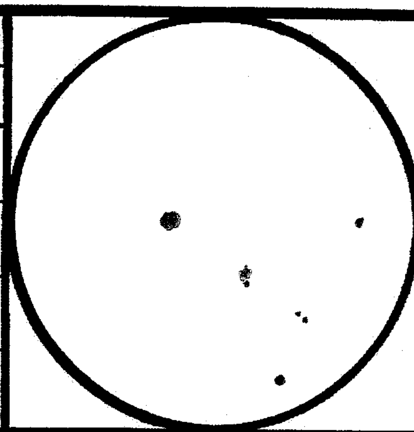
←3455 ROUND & BRIGHTER, LARGER

←3454 SMALL ELONG GLOW

HERSCHEL OBSERVATIONS

NGC 3457/61

CONST



DATE 6/2/18

TIME 3:40

SITE ACT | SEEING II | TRANS III

INSTR 22UC | EYEPIECE 10 | POWER 240

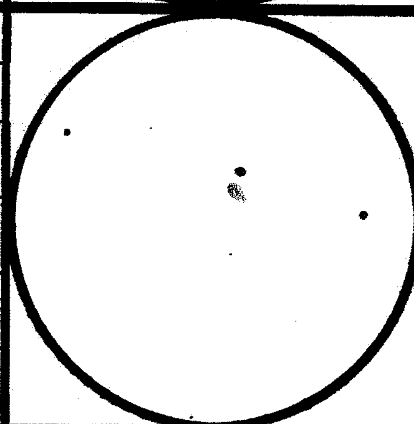
COMMENTS

← 3457 M, MB ELLIP

← 3461 SMALL, AM ELLIP

NGC 3443

CONST



DATE 〃

TIME 3:50

SITE ↓ | SEEING | TRANS

INSTR | EYEPIECE ↓ | POWER

COMMENTS

BRIGHT NUC + A BIT OF

DISK, NOT MUCH

NGC

CONST

DATE

TIME

SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

NGC

CONST

DATE

TIME

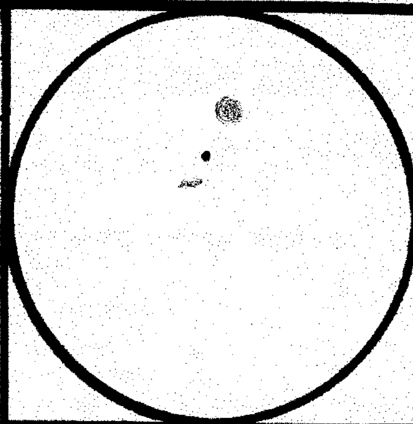
SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

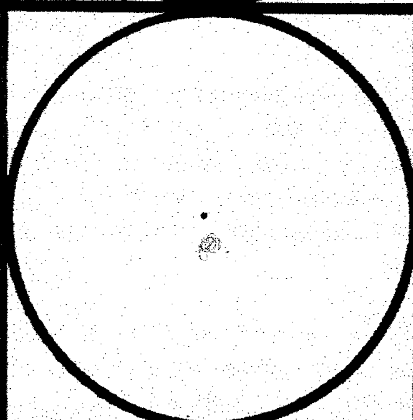
HERSCHEL OBSERVATIONS

NGC 3484/5	SITE Act	SEEING II / TRANS II
CONST	INSTR 22 UC	EYEPIECE 10 / POWER 240
DATE 6/4/18	COMMENTS	
TIME 4:30	REVISITED NICE OVAL GLOW & SMALL DIM STREAK	



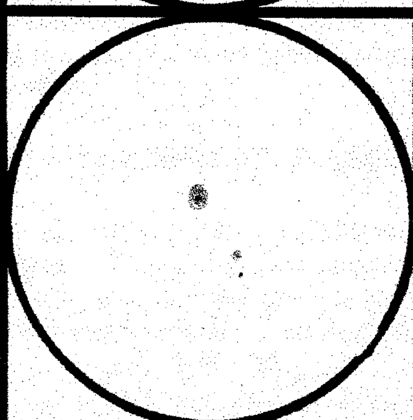
H4

NGC 3443	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 4:45	VERY DIM ROUND GLOW	



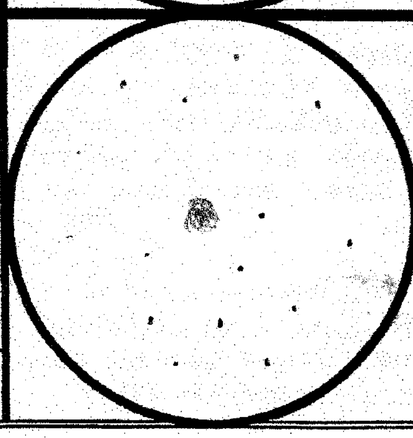
H4

NGC 3457/61	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 4:55	←3457 BRIGHT ELLIP 3460 NOT NEAR ←3461 SMALL NEARLY STELLAR	

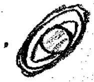


H4
H4

NGC 3512	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 5:00	H3 = verify SOME FAINT ARMS	



H3
ROBERT

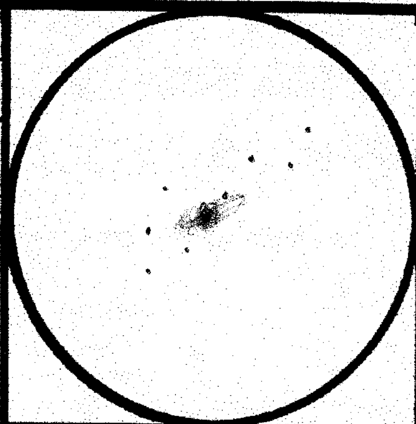


5:10 UT
240x
low

LMi 1K

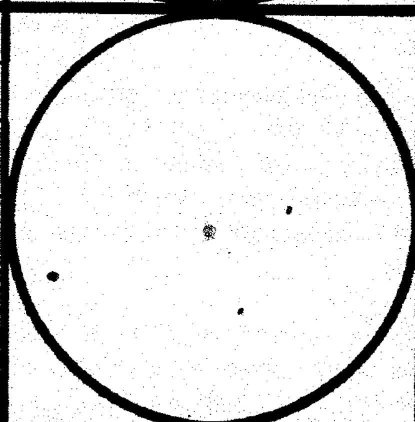
HERSCHEL OBSERVATIONS

NGC	3504
CONST	
DATE	6/4/18
TIME	5:15
SITE	ACT
SEEING	II
TRANS	I
INSTR	22UC
EYEPIECE	10 240
POWER	
COMMENTS	VERY NICE, LL, COMPACT NUC + 2X1 GLOW



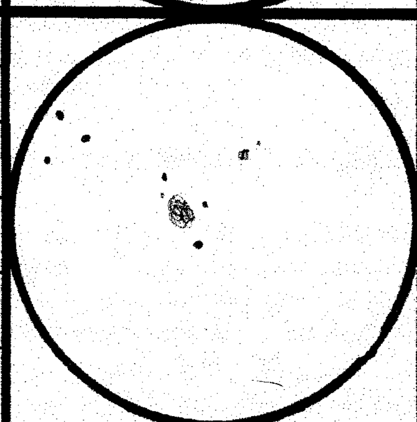
H4

NGC	3515
CONST	
DATE	"
TIME	5:20
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	SMALL, NUC ONLY



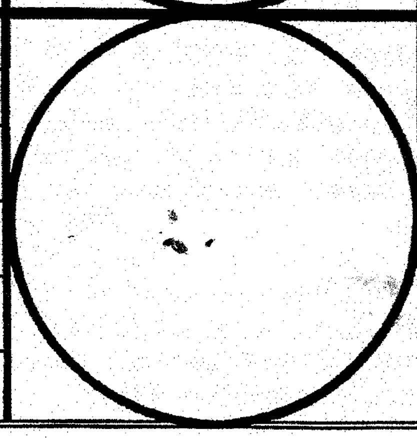
H4

NGC	3561+A
CONST	3552 → 3553 3554
DATE	"
TIME	4:45
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	← 4:46:30 ← DIM TWO SAT 3561A/B THESE ARE ALL GALAXIES! ABELL 1185 (PART)



ARP 105 (3561 +A)

NGC	4015+
CONST	
DATE	"
TIME	5:30
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	← 17 + A VERY STELLAR

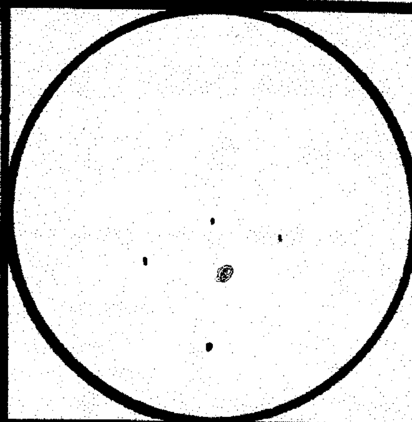


ARP 138

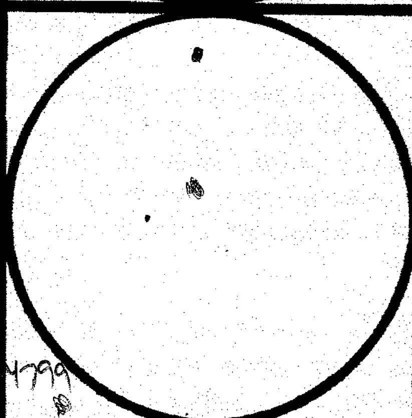
ORCI CAMP KIDS (40@ 14-15yrs)
+ ARGUMENT W/SHELDON
→ CLOUDS!

HERSCHEL OBSERVATIONS

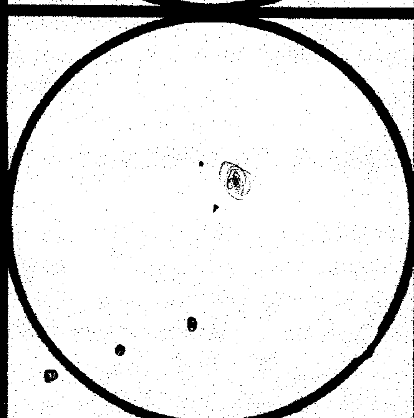
NGC 3803	SITE ACT	SEEING III / TRANS II
CONST	INSTR 22UC	EYEPIECE 10 / POWER 240
DATE 6/6/18	COMMENTS	
TIME 3:45	SMALL & DIM, NO HINT OF DETAILS	



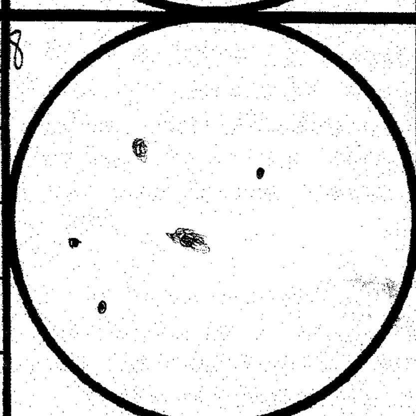
NGC 4809/10	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 4:00	NOTICED POSSIBLE "DUMBBELL" EFFECT	ARP 277



NGC 3804	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	H4
TIME 4:10	HOLLOW GLOW W/ARC	

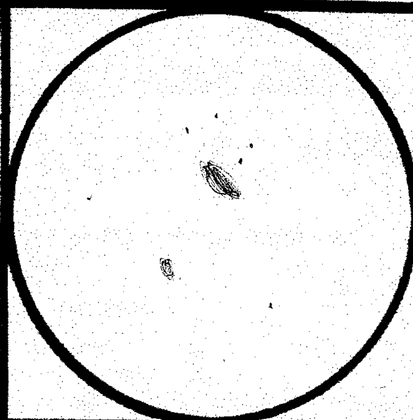


NGC 3990/98	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 4:20	NICE PAIR, ONE SMALLISH & NOT MUCH DETAIL, OTHER NICE SQUAT ARMS	



HERSCHEL OBSERVATIONS

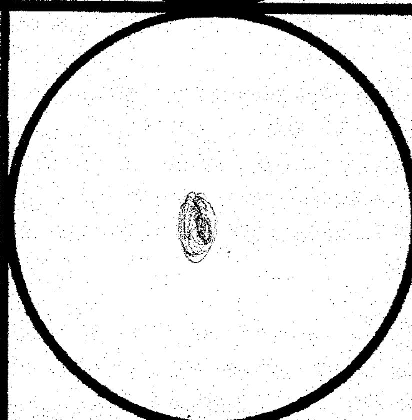
NGC 3972/77
CONST
DATE 6/6/18
TIME 4:30



SITE ACT
SEEING III
TRANS II
INSTR 22UC
EYEPIECE 10
POWER 240
COMMENTS
VERY NICE PAIR, ONE TIPPED
SPIRAL, ONE SMALL GLOW

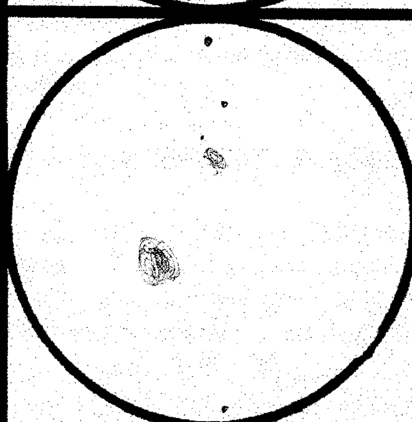
H4 (3977)

NGC 3982
CONST
DATE
TIME 4:45



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
LARGE OVAL GLOW
W/ BARRISH ON ONE SIDE

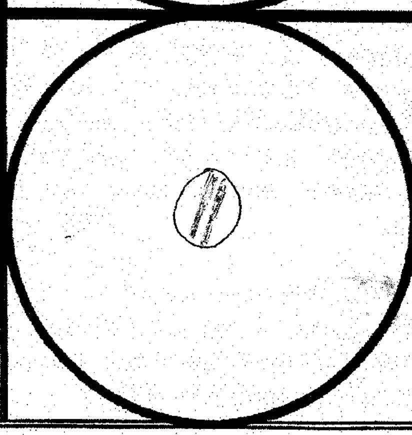
NGC +3958
CONST
DATE
TIME 5:00



SITE
SEEING III
TRANS III
INSTR
EYEPIECE 10
POWER 240
COMMENTS
NICE PAIR, ONE LG
WITH SOMEWHAT NICE
ARMS, ONE SMALLER W/
NOT MUCH BUT 2X1 GLOW

H4 (3958)

NGC 4
CONST
DATE
TIME 2:15

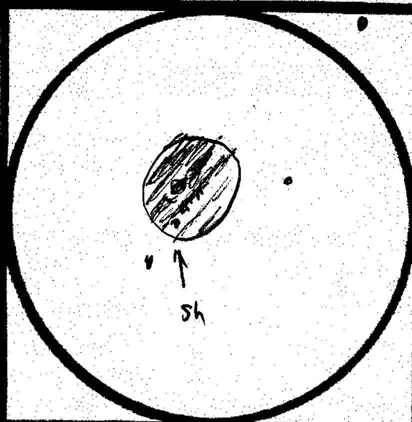


SITE
SEEING III
TRANS II
INSTR
EYEPIECE 10
POWER 240
COMMENTS
2 "SPOTS" – SH ?

AZ ENC BROKE! HAD ONE! [redacted] POINTS WORK!

HERSCHEL OBSERVATIONS

NGC	4		SITE	ACT	SEEING	III-	TRANS	I-
CONST			INSTR	22UC	EYEPIECE	10	POWER	240
DATE	6/16/18							
TIME	3:17UT							



COMMENTS

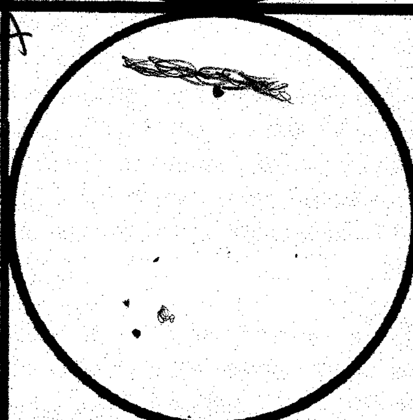
GRS & GRS HOLLOW W/

SWOOPS ON NEB AND

SH OF I ON DISK

I IV II III

NGC	4577 + A		SITE	↓	SEEING	↓	TRANS	
CONST			INSTR		EYEPIECE		POWER	
DATE	"							
TIME	3:25UT							



COMMENTS

4577

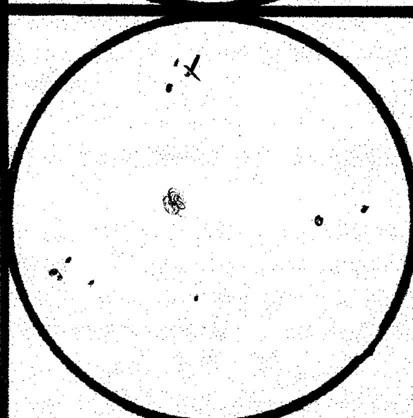
LAND OF DBLS! FIELDS TO HOP

HERE WERE SOMEWN

4577A SMALL DIM GLOW

(NVC) ONLY - CONFIRMED

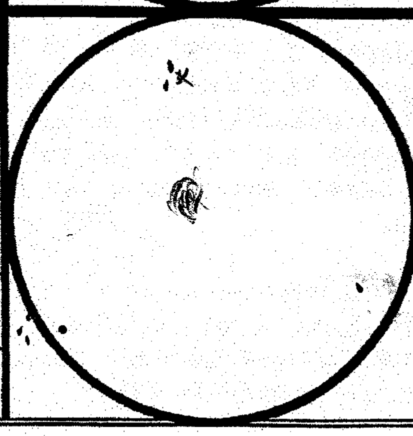
NGC	4541		SITE	↓	SEEING	"	TRANS	"
CONST			INSTR		EYEPIECE	25	POWER	100
DATE	"							
TIME	3:40UT							



COMMENTS

SMALL, BR. NVC

NGC	4541		SITE	↓	SEEING	"	TRANS	"
CONST			INSTR		EYEPIECE	10	POWER	240
DATE	"							
TIME	3:45							



COMMENTS

MORE DETAIL W/ SOME

HINT OF SHORT ARMS

CONFIRMED

ALL STAR HOPS MICHAEL & MARILYN & OTHERS CONVINCED ME TOO, GOOD THING SUNDAY CLOUDY

H4 #158

H4 #158

H4 #158

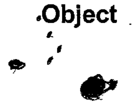
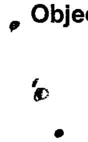
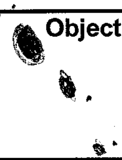
OAO! 9:48pm ~~FT~~ ← 535 SAVED

H-AM

www.AstroMax.com

The American Association of Amateur Astronomers
Observing Log

Observer: B Young **Location:** ACT **Page:**

INDEX	Period - Instrument	Notes
Object 	Date 5/16/19 Time 3:50 Power 240 Seeing III Type Instrument UC22	4791/98 H4 4795 ROUND, BRIGHT #165 4791 SMALLER, NOT TOO DIM
Object 	Date Time 4:20 Power Seeing Type Instrument	4803 H4 NEARLY STELLAR IN FIELD #166
Object 	Date Time 4:05 Power Seeing Type Instrument	β Sco
Object 	Date Time 4:15 Power Seeing Type Instrument	ν Sco + Σ1999
Object 	Date " Time 4:20 Power 100 Seeing " Type Instrument "	N4448 SQUAT ARMS & BN
Object 	Date Time 4:30 Power Seeing Type Instrument	N4375 SMALL GLOW NEXT TO FS
Object 	Date Time 4:45 Power Seeing Type Instrument	N4295 LENTICULAR
Object 	Date Time 5:00 Power Seeing Type Instrument	4559 + 4559 A LARGE faint, dim, elong
Object 	Date Time 5:10 Power Seeing Type Instrument	N4278/4283/4286 (H4 #139/–/140)
Object 	Date Time 5:15 Power Seeing Type Instrument	N4274

→ top of Coma
1:20 gang's

The American Association of Amateur Astronomers

Observing Log

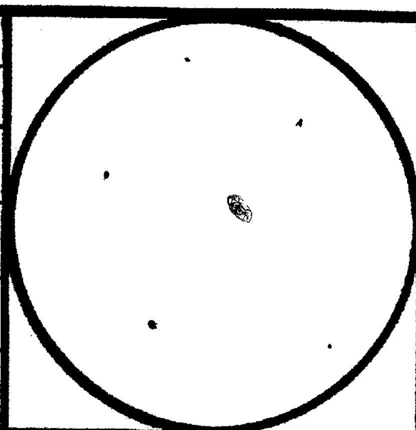
www.AstroMax.com

Observer: ______________ Location: ______________ Page: ______

INDEX	Period - Instrument	Notes
Object	Date 6/16/18 · Time 5:20 · Power 240 · Seeing III · Type Instrument 22" VC	N4244
Object	Date · Time 5:30 · Power · Seeing · Type Instrument	N4151 H4 #127 N4156 H4 #128
Object	Date · Time 5:40 · Power · Seeing · Type Instrument	5:42 ur N4145A H4 #126
Object	Date · Time 5:50 · Power · Seeing · Type Instrument	N4145
Object	Date · Time 5:55 · Power · Seeing · Type Instrument	N4097
Object	Date · Time 6:00 · Power · Seeing · Type Instrument	U7125
Object	Date · Time 6:10 · Power · Seeing · Type Instrument	N2712 (ARP 203)
Object	Date · Time 6:15 · Power · Seeing · Type Instrument	N3713/4
Object	Date · Time 6:25 · Power · Seeing · Type Instrument	N4211+A (ARP 106)
Object	Date · Time 6:35 · Power · Seeing · Type Instrument	N4194 (ARP 160)

HERSCHEL OBSERVATIONS

NGC 4916
CONST
DATE 8/3/18
TIME 2:50

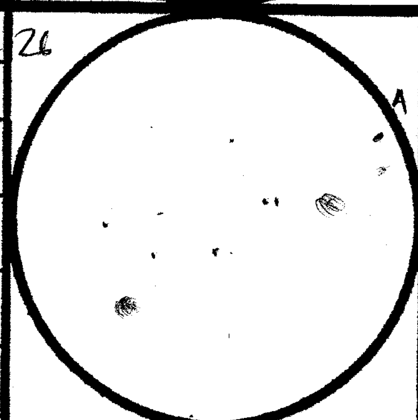


SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
BRIGHT, NOT TOO BIG, ELONG
W/ SOME GLOW

H4
#180

NGC 5220/5226
CONST
DATE "
TIME 3:10



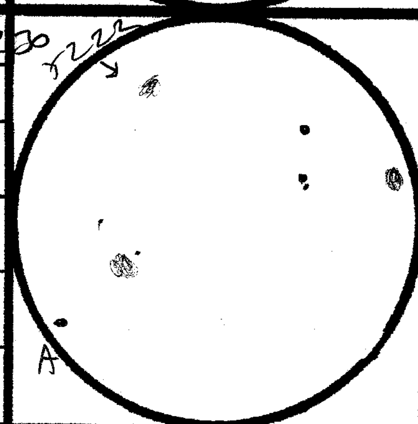
SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
5220 ELONG GLOW, AV=2

5226 ROUND, NO DETAIL

H4
#188
(5226)

NGC 5221/5230 5222
CONST 5222
DATE "
TIME 3:20



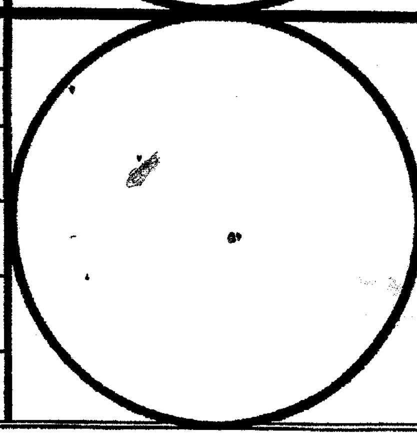
SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
5230 OVAL, NEAR DBL ST

5222 AV=2 NO DETAIL
5221 S1 B, ROUND

H4
#187
(5222)

NGC 5207
CONST
DATE "
TIME 3:30

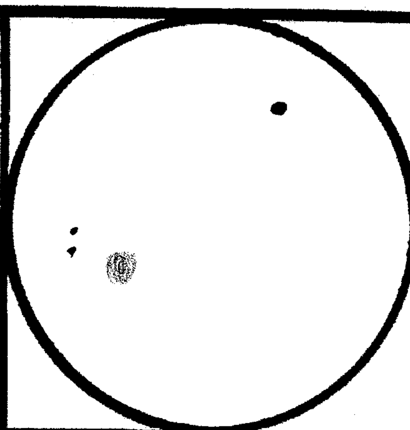


SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
f B, elong, near FS
nuc seen, not even on both sides

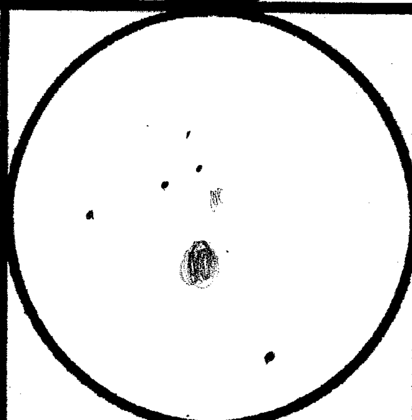
HERSCHEL OBSERVATIONS

NGC 8406
CONST
DATE 8/3/18
TIME 3:50



SITE ACT | SEEING III | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS
ROUND, NO DETAIL

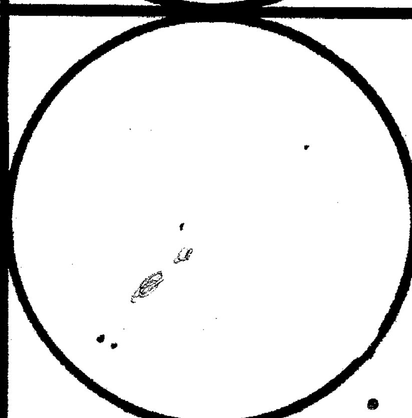
NGC 5349+
CONST 5351
(H3)
DATE 11
TIME 4:00



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
5349 SMALL BUT SEEN
5351 NICE, LG ROUND GLOW

HH #197 (5349)

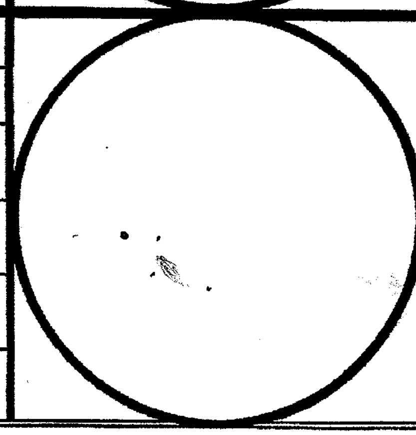
NGC 5754/5
CONST
DATE 11
TIME 4:15



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
2 VERY FAINT GLOWS
IN A LINE

ARP 297

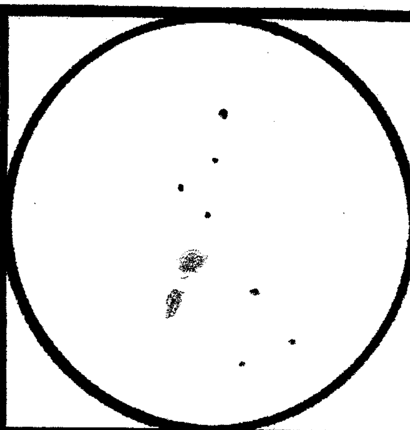
~~NGC~~ U 9242
CONST
DATE 11
TIME 4:30

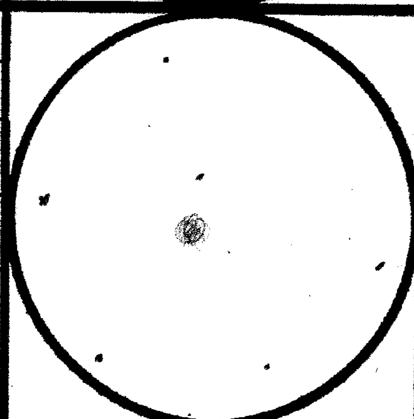


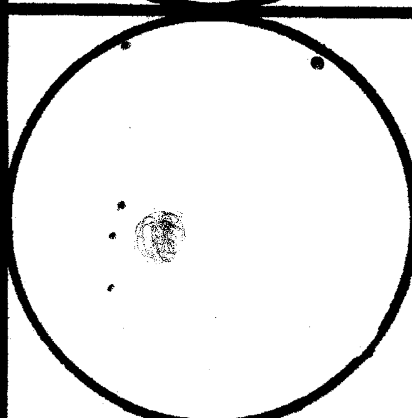
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
5-10s SAT CNTRFLD
? CHECK

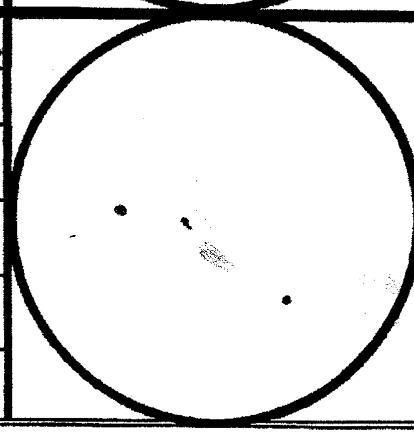
KG

HERSCHEL OBSERVATIONS

NGC 1253A		SITE ACT	SEEING II / TRANS II
CONST		INSTR 22WC	EYEPIECE 10 / POWER 240
DATE 8/6/18		COMMENTS 2 FAINT GLOWS, NO DETAILS NICE FS, GLOWS IN EDGE OF FS	ARP 278
TIME 3:55			

NGC 7755		SITE ↓	SEEING / TRANS
CONST		INSTR ↓	EYEPIECE 10 / POWER ↓
DATE "		COMMENTS ELLIP	H4 226
TIME 4:10			

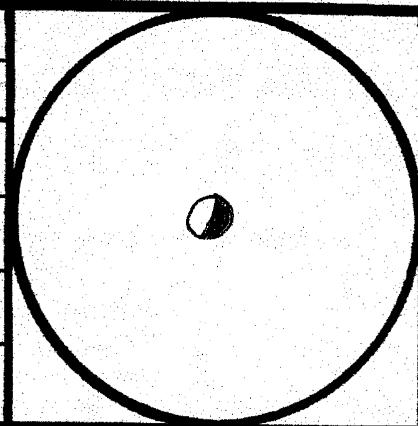
NGC 7745		SITE ↓	SEEING / TRANS
CONST		INSTR ↓	EYEPIECE 10 / POWER ↓
DATE "		COMMENTS sl L, F, roundish	H4 227
TIME 4:20			

~~NGC~~ UGC 11093		SITE ↓	SEEING / TRANS
CONST		INSTR ↓	EYEPIECE ↓ / POWER
DATE "		COMMENTS	FG
TIME 4:40			

HERSCHEL OBSERVATIONS

~~NGC~~ ♀

CONST



DATE 8/1/18

TIME 1:50

SITE ACT | SEEING III | TRANS I-

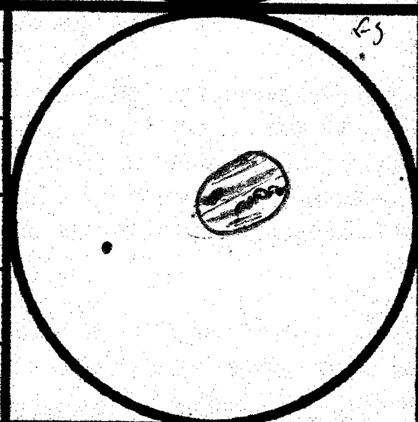
INSTR 22UC | EYEPIECE 24 | POWER 100

COMMENTS

52%

~~NGC~~ 4

CONST



DATE "

TIME 2:05

SITE II | SEEING " | TRANS "

INSTR fs | EYEPIECE 2x10 | POWER 480

COMMENTS

10m after 100x dish where II sh

III GRS had just entered

~~MPD~~ WAVES

I MOON ON

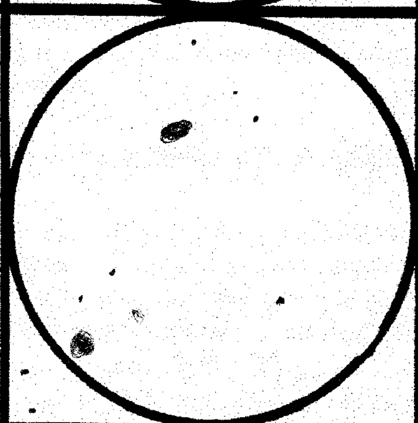
WHITE SPOT

I MOON Sh

(II IN ECLIPSE)

NGC 4473/

CONST 4477



DATE "

TIME 3:00

SITE | SEEING " | TRANS "

INSTR | EYEPIECE 10 | POWER 240

COMMENTS

<4473 NICE 2x1 ELONG GLOW, MOSTLY NUC

← 4479 VS, VD

← 4477 ROUND GLOW WITH BIG OVAL NUC

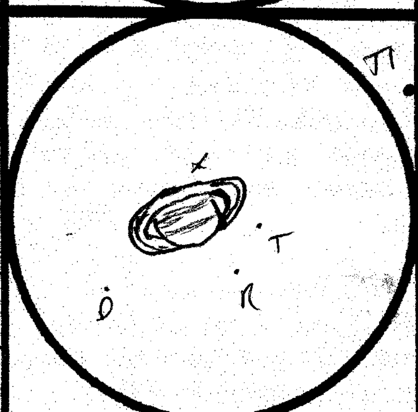
H4 #147

H4 #148

(4473, 4477)

NGC

CONST



NO

DATE ↓

TIME 3:10

SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

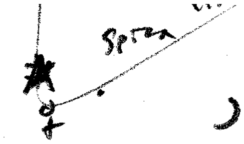
COMMENTS

A B C RINGS

Sh on ring

4 + T (NO, 3, X NO GOOD, E NOT SEEN)

HERSCHEL OBSERVATIONS



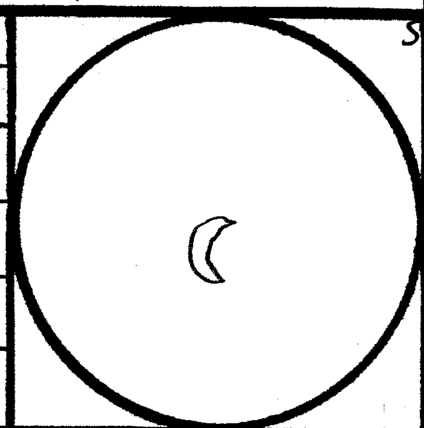
1112 UT T2

♀ .8 → ♂ .2 → ♃

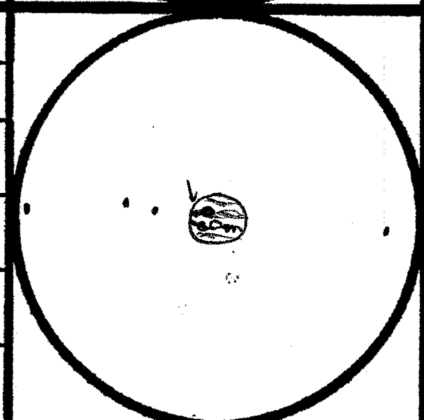
S

W

NGC	♀
CONST	
DATE	9/11/18
TIME	1:05 UT
SITE	ACT
SEEING	II
TRANS	II
INSTR	22UC
EYEPIECE	24
POWER	100
COMMENTS	



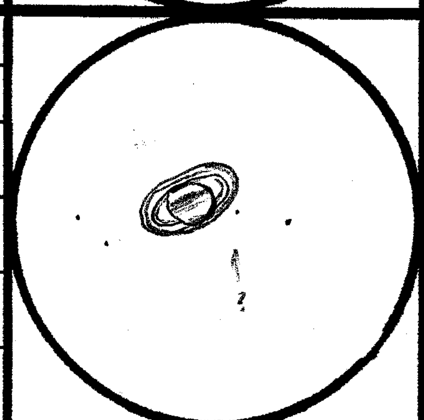
NGC	♃
CONST	
DATE	〃
TIME	1:10
SITE	〃
SEEING	〃
TRANS	〃
INSTR	〃
EYEPIECE	10
POWER	240
COMMENTS	



NGC	
CONST	
DATE	〃
TIME	1:20
SITE	↓
SEEING	↓
TRANS	
INSTR	↓
EYEPIECE	↓
POWER	

COMMENTS

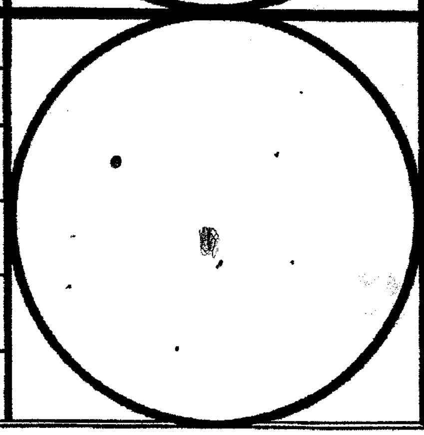
C seen easily
A bright
B striated & all diam
Shad on rings rings on S. ball
3 (4?) bands
NPB



NGC	6P18
CONST	
DATE	〃
TIME	1:30
SITE	↓
SEEING	↓
TRANS	
INSTR	↓
EYEPIECE	↓
POWER	

COMMENTS

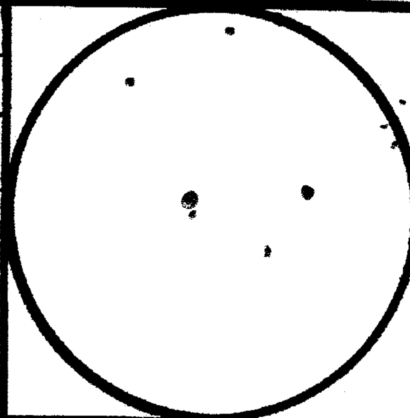
Small, no detail



1A

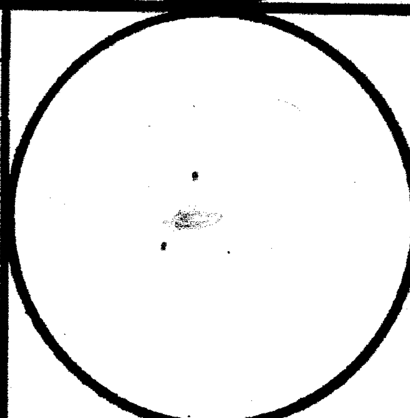
HERSCHEL OBSERVATIONS

NGC	0α (29)
CONST	Aqr
DATE	9/11/18
TIME	2:20
SITE	ACT
SEEING	II
TRANS	II-
INSTR	220C
EYEPIECE	10
POWER	240



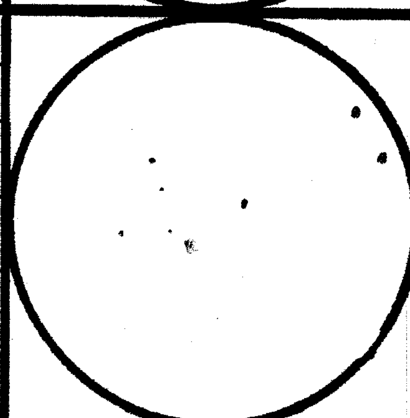
COMMENTS
Gold & green
PA=50

NGC	7166
CONST	
DATE	11
TIME	2:30
SITE	↓
SEEING	
TRANS	
INSTR	↓
EYEPIECE	↕
POWER	



COMMENTS
FT, ELONG

~~NGC~~	21P
CONST	GIACOBINI-ZINNER
DATE	9/12/18
TIME	11:00UT
SITE	HOME
SEEING	II
TRANS	II-
INSTR	20x80
EYEPIECE	
POWER	20



COMMENTS
NICE! HOME AT DAWN
VERY HIGH IN GEM FEET

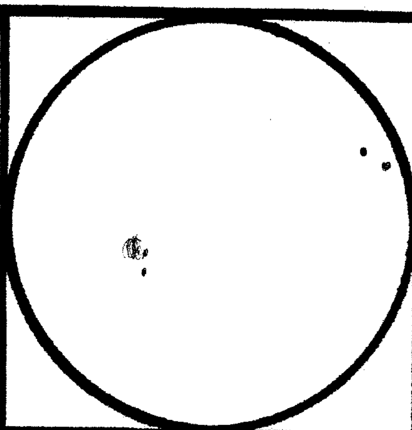
NGC	
CONST	
DATE	
TIME	
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	

COMMENTS

H

HERSCHEL OBSERVATIONS

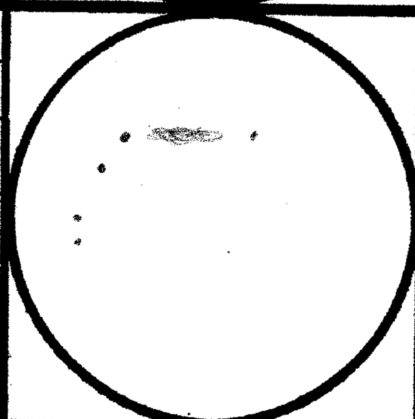
NGC	SITE	SEEING	TRANS	INSTR	EYEPIECE	POWER	CONST	DATE	TIME
64P	ACT	II	II	22UC	10	240	SWIFT-GEHRELS	9/11/19	1:40



COMMENTS

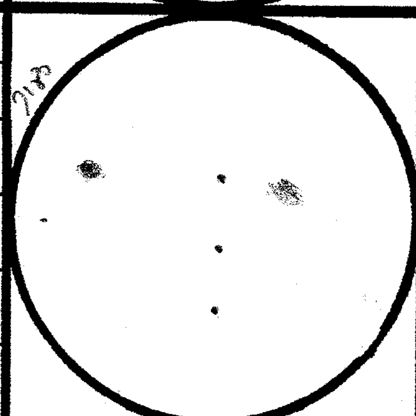
NOT BRIGHT BUT SEEN IN PSC. COMA, NO TAIL

NGC	SITE	SEEING	TRANS	INSTR	EYEPIECE	POWER	CONST	DATE	TIME
7184	↓	↓		↓	↓			〃	1:50



COMMENTS

NGC	SITE	SEEING	TRANS	INSTR	EYEPIECE	POWER	CONST	DATE	TIME
7190+85	↓	↓		↓	↓			〃	1:55

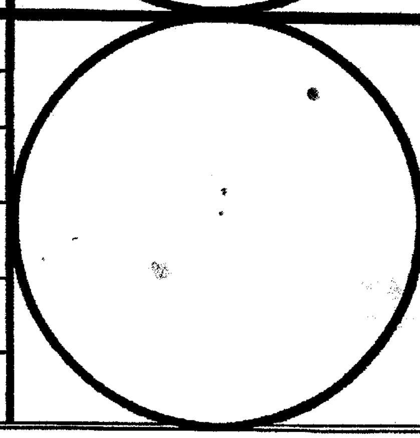


COMMENTS

7185

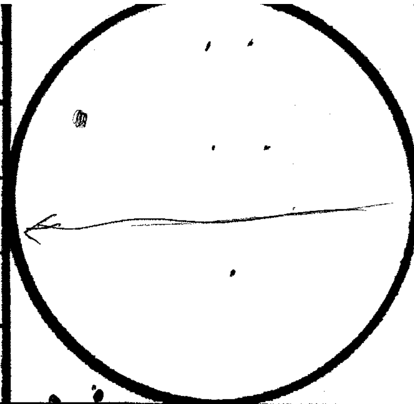
7180
H

NGC	SITE	SEEING	TRANS	INSTR	EYEPIECE	POWER	CONST	DATE	TIME
7188	↓	↓		↓	↓			〃	2:05



COMMENTS

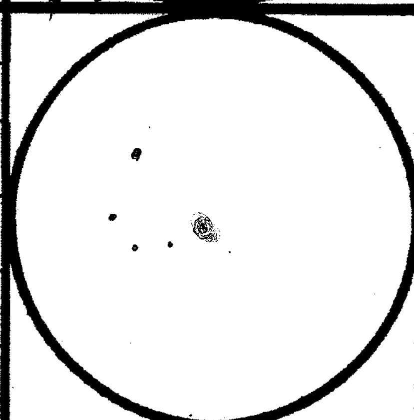
NGC C 2016 R2
CONST (PAN STARRS)
DATE 9/15/18
TIME 1140



SITE ACO | SEEING II | TRANS III
INSTR 22 | EYEPIECE 10 | POWER 240

COMMENTS
1:39 UT SOT 6323[illegible]
VERY LOW, JUST SEEN
IN LOW TWILIGHT

NGC 6962
CONST
DATE "
TIME 2:00

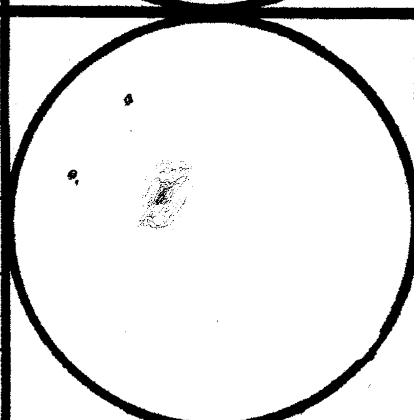


SITE | SEEING | TRANS
INSTR | EYEPIECE 10 | POWER

COMMENTS
WHERE'S 6964?
ONLY ONE SEEN HERE,
NOT SMALL, OBLONG

H

NGC 5888
CONST
DATE "
TIME 2:20

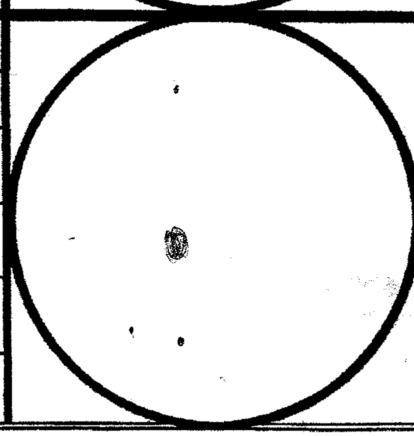


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
LARGE, BARRED W/ HALO

H

NGC 5893
CONST
DATE "
TIME 2:30



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

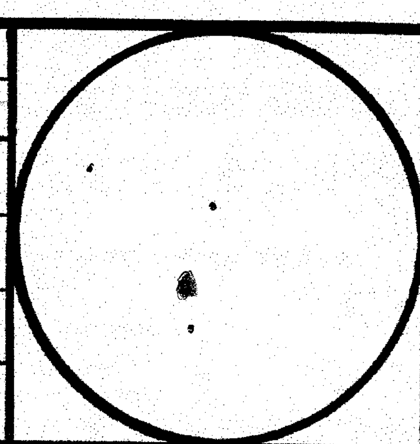
COMMENTS
NICE OVAL, NO DETAIL

H

FX +3F 1x 2:29

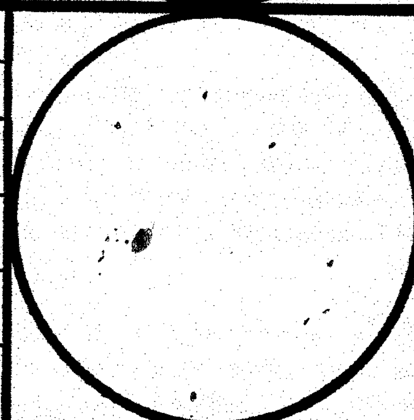
HERSCHEL OBSERVATIONS

NGC 5900
CONST
DATE 9/15/18
TIME 2:30



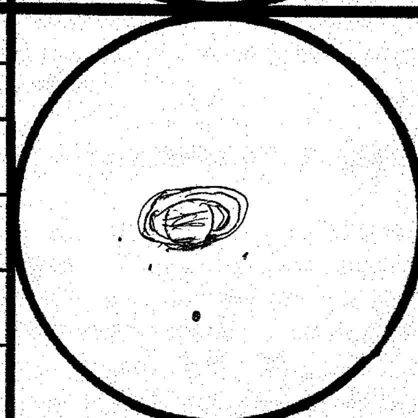
SITE ACT | SEEING III | TRANS III
INSTR 22 | EYEPIECE 10 | POWER 240
COMMENTS

NGC 7805/6
CONST
DATE "
TIME 2:40



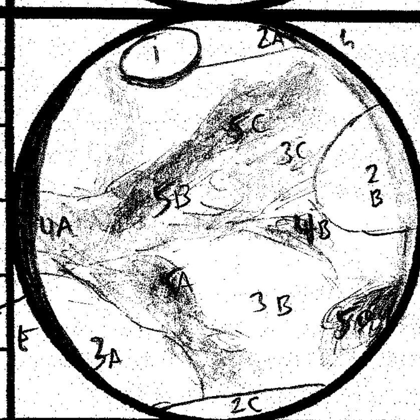
SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC ♄
CONST
DATE "
TIME 2:45



SITE ↓ | SEEING " | TRANS "
INSTR | EYEPIECE 2x10 | POWER 480
COMMENTS

NGC ♂
CONST
DATE 9/15/18
TIME 3:20



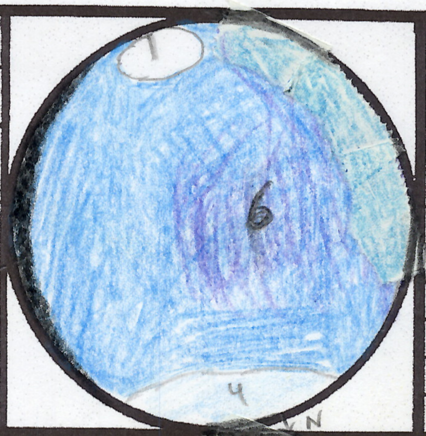
SITE ACT | SEEING III | TRANS III
INSTR 22" DOB | EYEPIECE 2x10 | POWER 480
COMMENTS
NO FILTER ∅=91
DIAM=18.4 CM=26
1=CAP 2A=MARE AUSTRALE 2B=THARSIS
2C=POLAR AREA 3A=EDEN 3B=ARCADIA
3C=CHRYSE 4A=SINUS SABAEUS/MERIDIANI
4B=W. OF THARSIS 5A=MARE ACIDALIUM
5B=AURORAE SINUS 5C=SOLIS LACUS
5D=ARCADIA

COPIED TO ALPO FORM

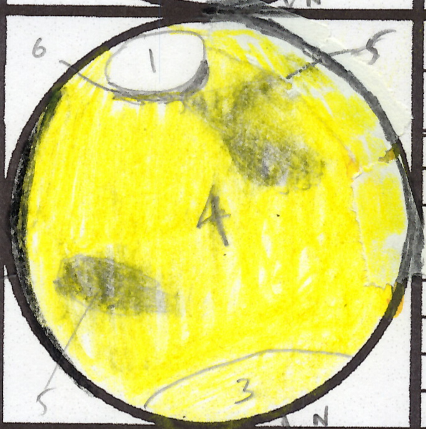
310 S • Polaris E -3 FLAME

HERSCHEL OBSERVATIONS

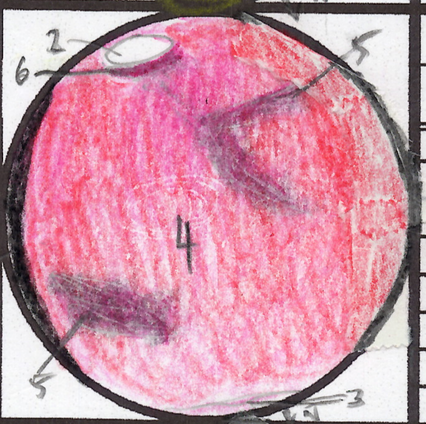
NGC ♂	SITE ACT	SEEING III / TRANS III
CONST	INSTR 22" UC DOB	EYEPIECE 2X10 / POWER 480
DATE 9/15/18	COMMENTS	
TIME 3:00 UT	#47 BLUE ϕ=91 CM= ~~128~~ 21 DIAM= 18.4 BLUE CLEARING = 0 LIMB DARKENING & PHASE SHOWN NO DETAIL W/BLUE	



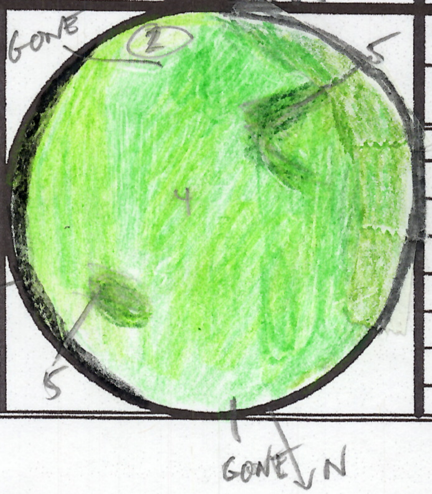
NGC ♂	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE	COMMENTS	
TIME 3:05	#15 YELLOW ϕ= 91 CM= 22 DIAM= 18.4 LIMB & PHASE FEATURE N OF SPC - VERY EVIDENT	



NGC ♂	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE	COMMENTS	
TIME 3:10	#25 RED ϕ=91 CM= 23 DIAM= 18.4 LIMB & PHASE FEATURE ALSO DARK IN RED N. POLAR AREA VERY SMALL	



NGC ♂	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE 2X10 / POWER
DATE	COMMENTS	
TIME 3:15	#58 GREEN ϕ=91 CM= 25 DIAM= 18.4 LIMB & PHASE NO HINT OF FEATURE OR N. POLAR AREA	

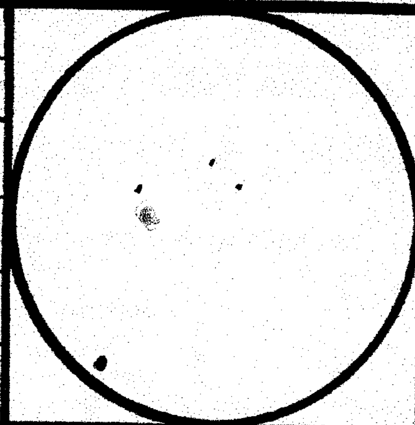


COPIED TO ALPO FORMS

lt.b
wh.
βari
10mm

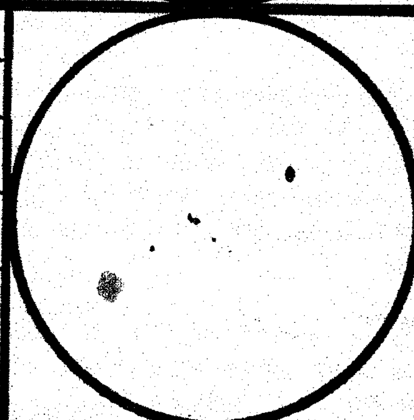
HERSCHEL OBSERVATIONS

NGC 1266
CONST
DATE 11
TIME 605



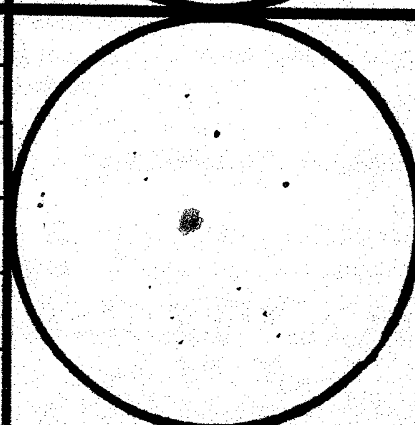
SITE ACG
SEEING III
TRANS II
INSTR 22WC
EYEPIECE 10
POWER 240
COMMENTS

NGC 1284
CONST
DATE 11
TIME 610



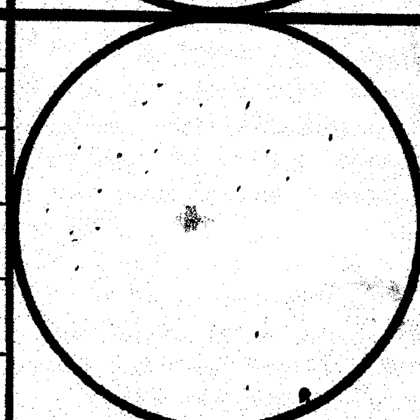
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

NGC 1979
CONST
DATE 11
TIME 615



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

NGC 1794
CONST
DATE 11
TIME 620

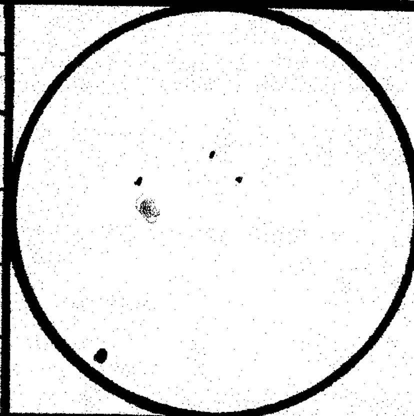


SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

4.6 wh. β Ori 10mm

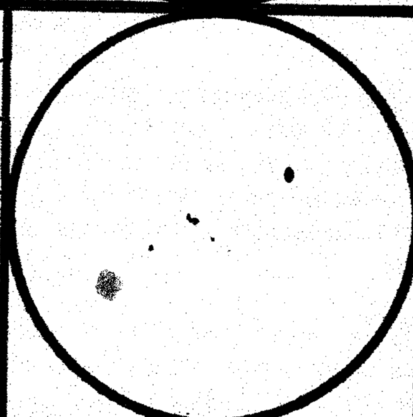
HERSCHEL OBSERVATIONS

NGC 1266
CONST
DATE 11
TIME 605



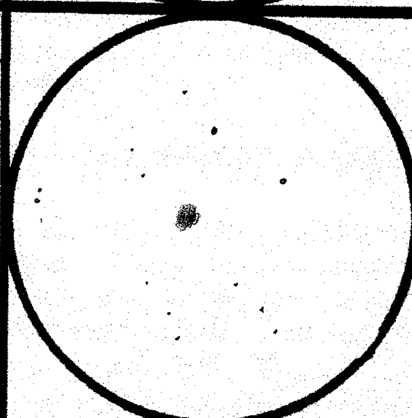
SITE ACG
SEEING III
TRANS II
INSTR 22Wc
EYEPIECE 10
POWER 240
COMMENTS

NGC 1284
CONST
DATE 11
TIME 610



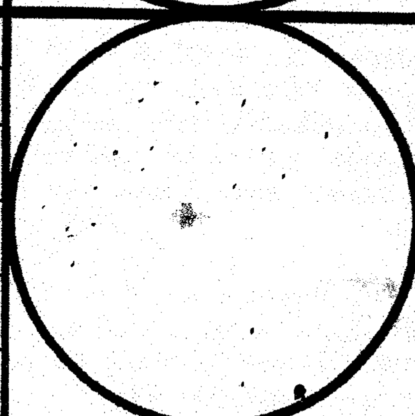
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

NGC 1979
CONST
DATE 11
TIME 615



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

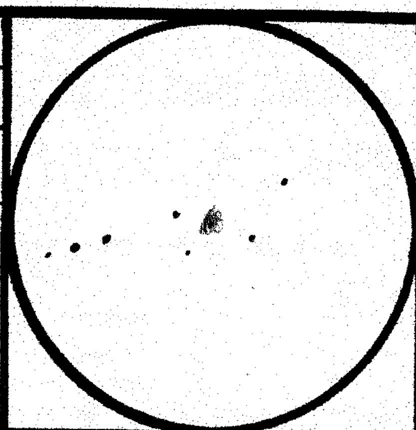
NGC 1794
CONST
DATE 11
TIME 620



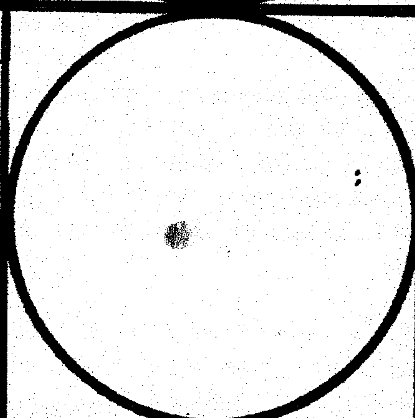
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

HERSCHEL OBSERVATIONS

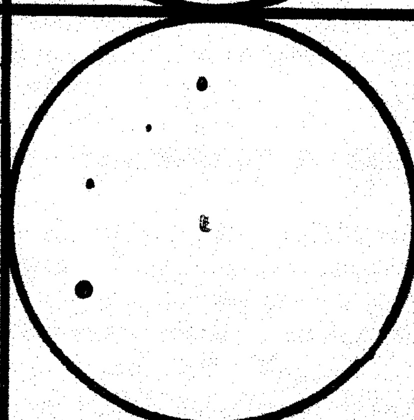
NGC 1576	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 1/8/19	COMMENTS		
TIME 700			



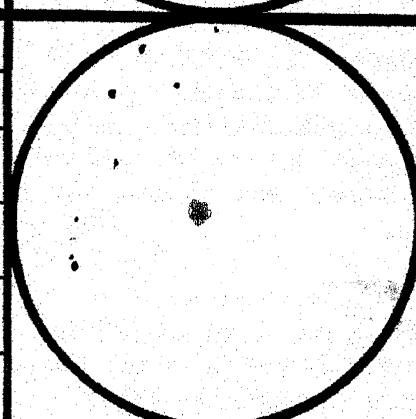
NGC 1516A	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 11	COMMENTS		
TIME 705			



NGC 1550	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 11	COMMENTS		
TIME 710			

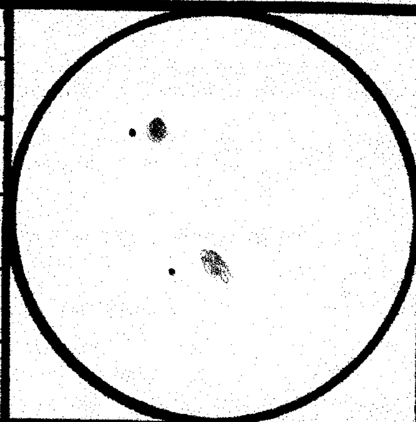


NGC 1552	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 11	COMMENTS		
TIME 715			



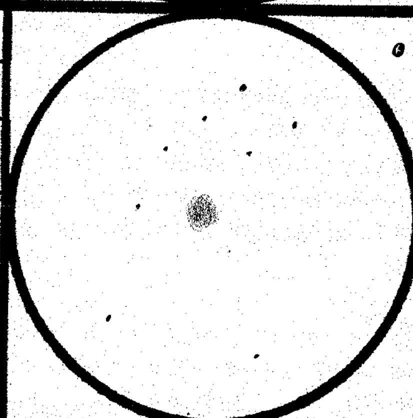
HERSCHEL OBSERVATIONS

NGC 1609/1611
CONST
DATE 1/8/19
TIME 720



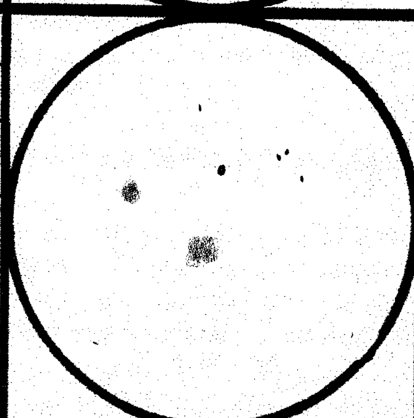
SITE Act | SEEING III | TRANS II
INSTR 22w c | EYEPIECE 10 | POWER 240
COMMENTS

NGC 1665
CONST
DATE ″
TIME 725



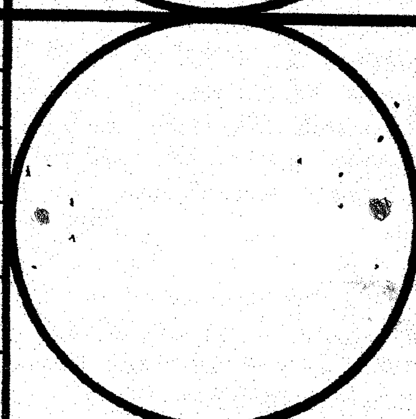
SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 1682/4
CONST
DATE ″
TIME 730



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

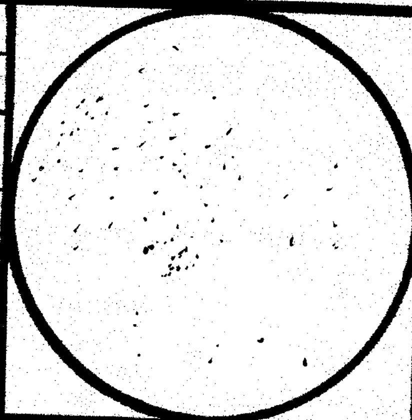
NGC 1670/78
CONST
DATE ″
TIME 735



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

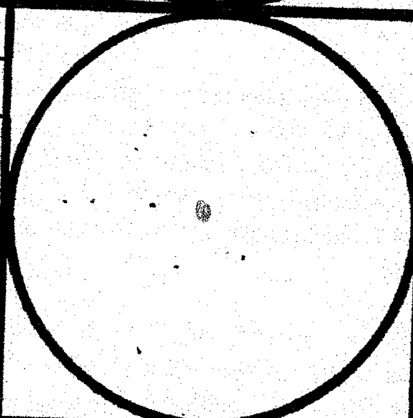
HERSCHEL OBSERVATIONS

NGC 1758
CONST
DATE 1/8/19
TIME 740



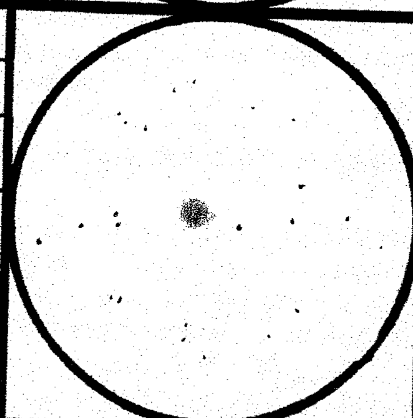
SITE ACF | SEEING III | TRANS II
INSTR 22 UC | EYEPIECE 24 | POWER 75
COMMENTS

NGC 1713
CONST
DATE "
TIME 745



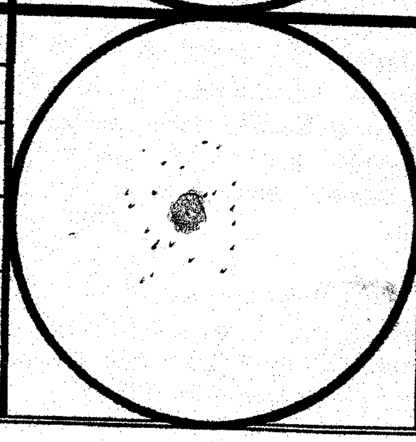
SITE | SEEING III | TRANS II
INSTR | EYEPIECE 10 | POWER 240
COMMENTS

NGC 1924
CONST
DATE "
TIME 800



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

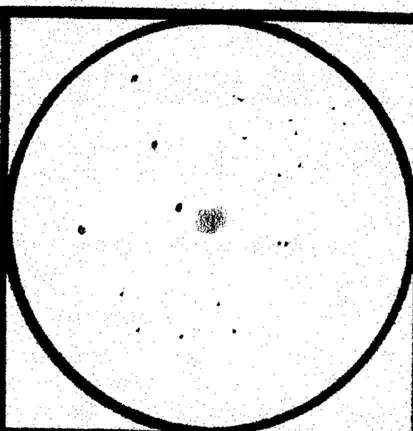
NGC 2438
CONST
DATE
TIME



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
PERFECT "BLOWN OUT" HOLE/SHELL IN OC

HERSCHEL OBSERVATIONS

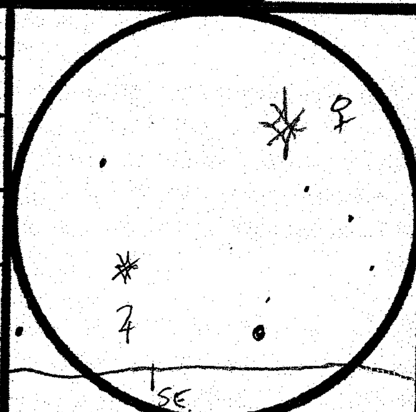
NGC 2578
CONST
DATE 1/8/19
TIME 815



SITE ACT	SEEING III	TRANS II
INSTR 22UC	EYEPIECE 10	POWER 240

COMMENTS

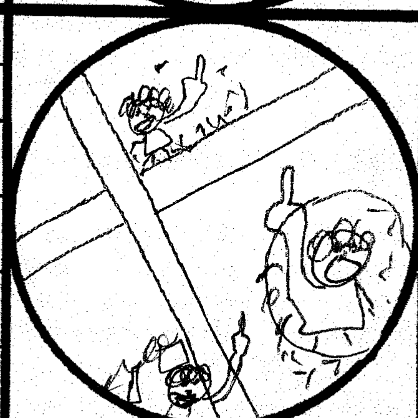
NGC
CONST
DATE 1/8/19
TIME 12:00



SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

NGC
CONST
DATE
TIME

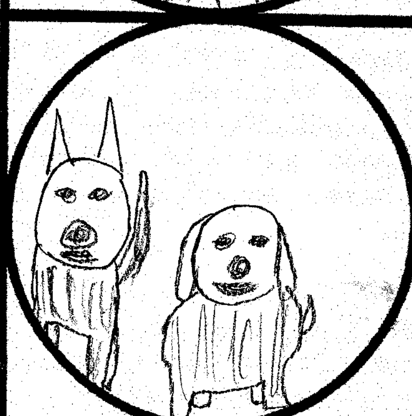


SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

SHE'S EVERYWHERE!

NGC
CONST
DATE
TIME



SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

MY PROTECTORS

& GVS's 21st BIRTHDAY!

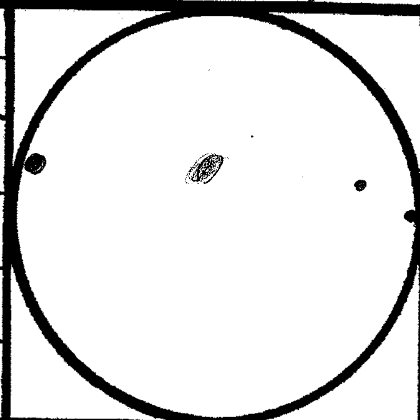
FIRST NIGHT BACK AFTER BACK SURGERY

HERSCHEL OBSERVATIONS

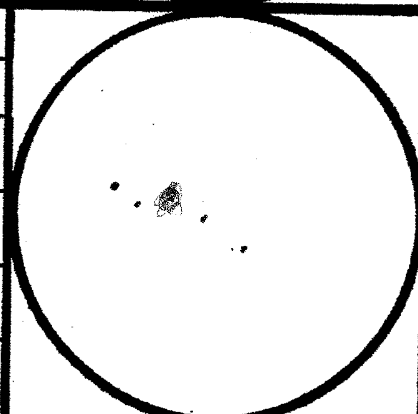
H4

SMOKE & STILL AIR

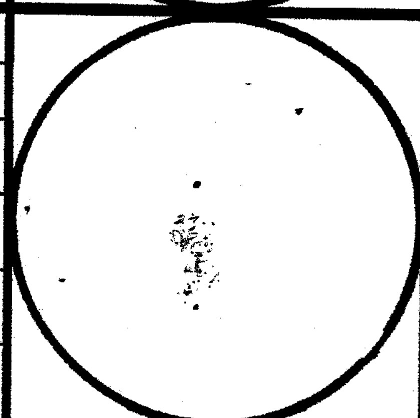
NGC 1924	SITE ACT	SEEING II / TRANS III
CONST	INSTR 22UC	EYEPIECE 10 / POWER
DATE 4/9/19	COMMENTS	
TIME 1140	Dim	
	RIGHT W OF M42!	



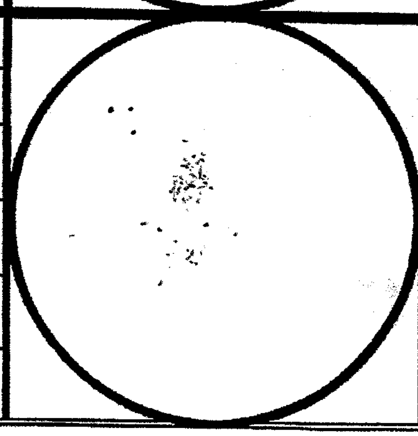
NGC 1985	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 1150	O3 NO HELP	



NGC 2225	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE 24 / POWER
DATE "	COMMENTS	
TIME 1155	OC - DOESN'T STAND OUT WELL	



NGC 2262	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE 24 / POWER
DATE "	COMMENTS	
TIME 2100	DITTO	



HERSCHEL OBSERVATIONS

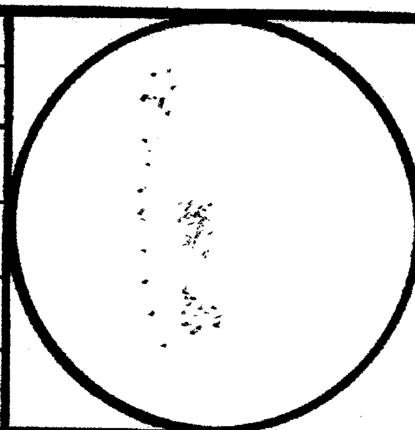
H4's

NGC 2401

CONST

DATE 4/9/19

TIME 2:10



SITE ACT | SEEING II | TRANS III

INSTR 22UC | EYEPIECE 24 | POWER

COMMENTS

2 SECTIONS W/ LONG LINE

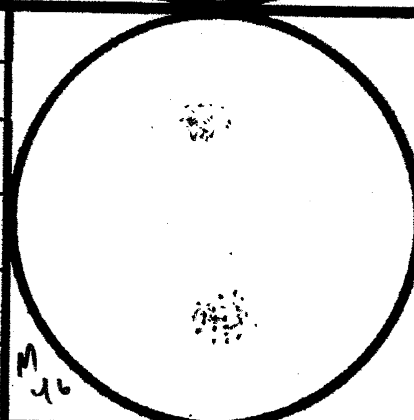
OF FS BESIDE THEM

NGC 2425

CONST →

DATE "

TIME 2:15



M 46

SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

VL, SHOWN AS >1 FLD

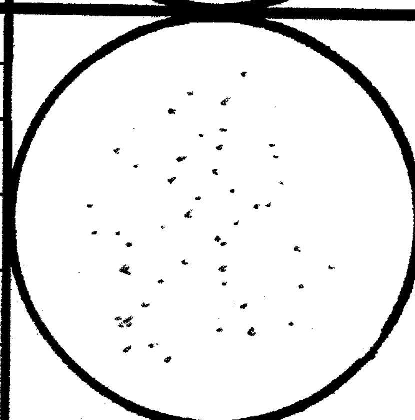
FOR COMP & POS VS M46

NGC 2423

CONST

DATE "

TIME 2:25



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

VL, SPARSE

NOT HERSCHEL

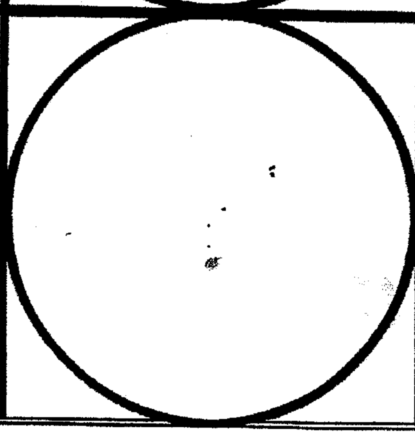
3 OR 4

NGC 2327

CONST

DATE "

TIME 2:30



SITE ↓ | SEEING | TRANS

INSTR | EYEPIECE 10 | POWER

COMMENTS

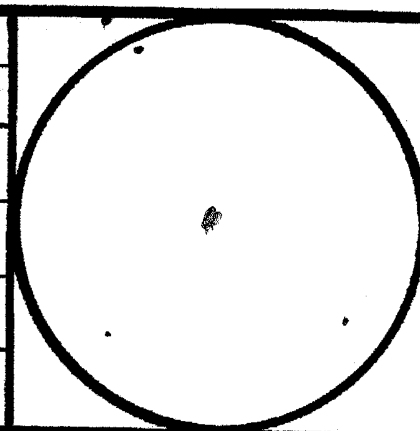
TINY NEB, NO DETAIL

NO FILTERS TRIED

H4's

HERSCHEL OBSERVATIONS

NGC	3508
CONST	
DATE	4/9/19
TIME	240

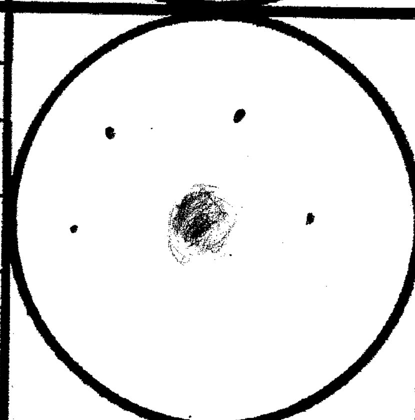


SITE	SEEING	TRANS
ACT	II	II-
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

COMMENTS

103 FAINT – NO DETAIL

NGC	3513
CONST	
DATE	"
TIME	245



SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

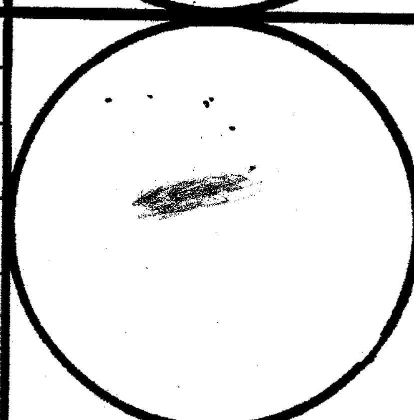
COMMENTS

LOVELY

W/SOME DETAIL IN "ARMS"

COMP., BR NUC

NGC	3511
CONST	
DATE	"
TIME	255



SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

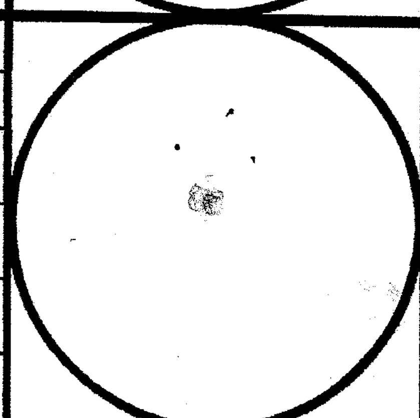
COMMENTS

IDEA OF DUST LANE,

VERY LL, NICE STIRATION

A BIT "SOFT" (SMOKE?)

NGC	2578
CONST	
DATE	"
TIME	305



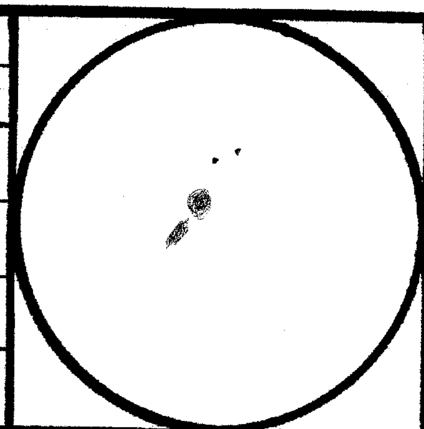
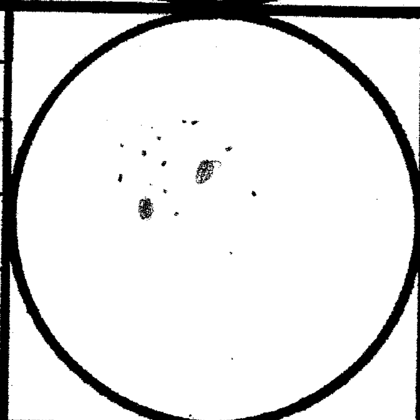
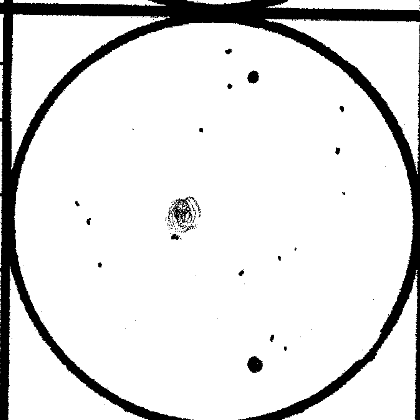
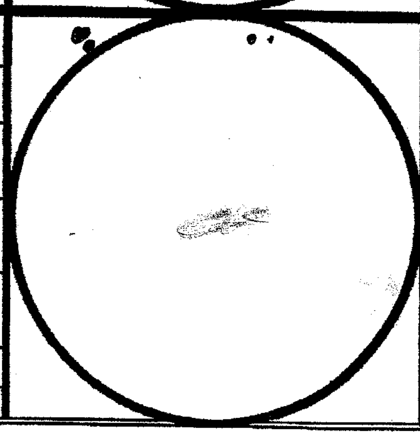
SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

AMORPHOUS GLOW BA

NICE, NOT TO SM OR DIM

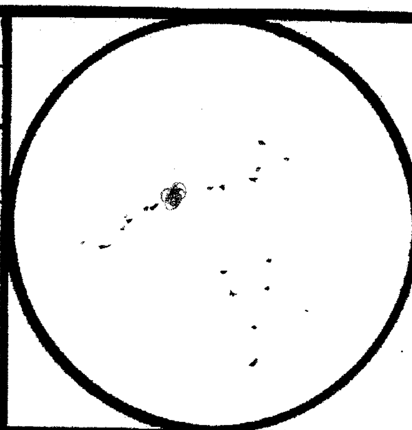
HERSCHEL OBSERVATIONS H4's

NGC 2274/75		SITE ACT · SEEING II · TRANS II-
CONST		INSTR 22 UC · EYEPIECE 10 · POWER 240
DATE 4/9/19		COMMENTS: WHAT A NICE LITTLE CONTRASTING PAIR, 2274 OVAL, COMP NUC 2275 ELONG, NOT QUITE EXTENDED TO OTHER
TIME 330		NO UGC 3537 AS IN PHOTOS · NO HINT OF THE "CURL" IN PHOTOS
NGC 2289/90		SITE · SEEING · TRANS
CONST		INSTR · EYEPIECE · POWER
DATE "		COMMENTS: ANOTHER NICE PAIR, BUT NO CONTRAST & NOT MUCH DETAIL
TIME 340		
NGC 2902		SITE · SEEING · TRANS
CONST		INSTR · EYEPIECE · POWER
DATE "		COMMENTS: NICE, SM, NOT BRITE BUT FS ON EDGE, NUC SEEN AND A WISP OF DETAIL IN ARMS
TIME 350		
NGC 2921		SITE · SEEING · TRANS
CONST		INSTR · EYEPIECE · POWER
DATE 4/9/19		COMMENTS: LG, DIMMISH BUT SO FEATHERY, LIGHT & ETHEREAL SOME MOTTLE - NO NUC
TIME 4:05 UT		

HERSCHEL OBSERVATIONS

H4's

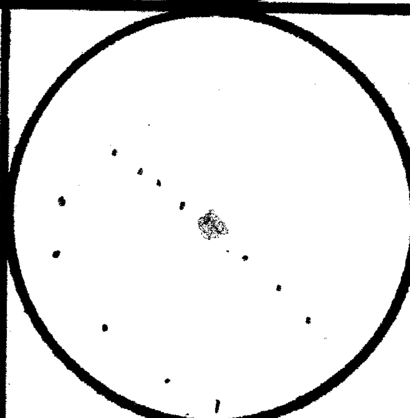
NGC	2402	SITE	ACT	SEEING	II	TRANS	II-
CONST		INSTR	22UC	EYEPIECE	10	POWER	240
DATE	4/9/19	TIME	4:15				



COMMENTS

SMALL, DIM, SOME FS ON
HII REGIONS GLIMPSED
NICE LINE OF FS IN/OUT OF IT

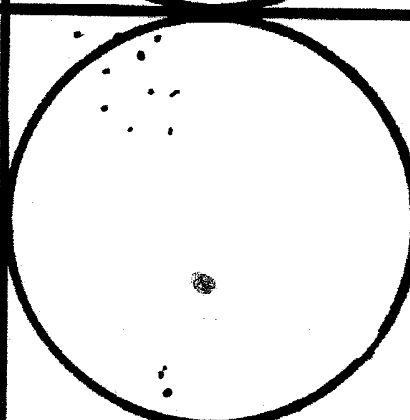
NGC	2508	SITE		SEEING		TRANS	
CONST		INSTR		EYEPIECE		POWER	
DATE	"	TIME	425				



COMMENTS

SIMILIAR FS LINE, BUT
ϕ + 90°! GX MORE EVEN,
LESS DETAIL, HINT OF ARM
OR BLOB ON ONE EDGE

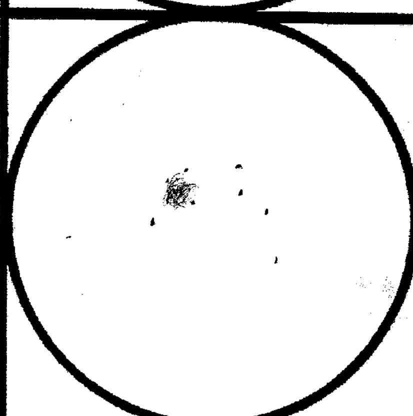
NGC	2513	SITE		SEEING		TRANS	
CONST		INSTR		EYEPIECE		POWER	
DATE	"	TIME	435				



COMMENTS

GREAT FS NEAR, BUT
GX A BIT PLAIN

NGC	2585	SITE		SEEING		TRANS	
CONST		INSTR		EYEPIECE		POWER	
DATE	"	TIME	440				



COMMENTS

NICE, FS & DETAILS
IN HALO, COMP NUC,
MOTTLE / AMAG GLOW

HERSCHEL OBSERVATIONS

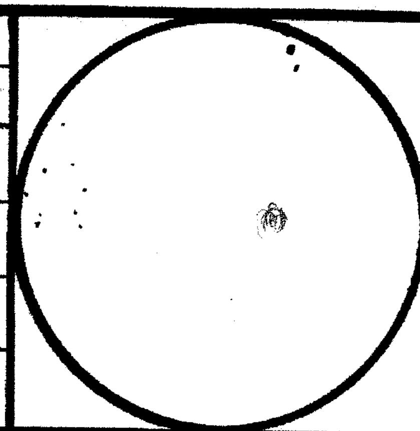
H4's

NGC 2618

CONST

DATE 4/9/19

TIME 445



SITE	SEEING	TRANS
ACT	II	II
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

COMMENTS

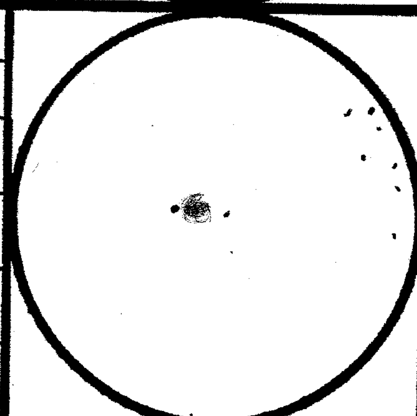
vF, sm, nvs, some hint
in round glow

NGC 2695

CONST

DATE 〃

TIME 450



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

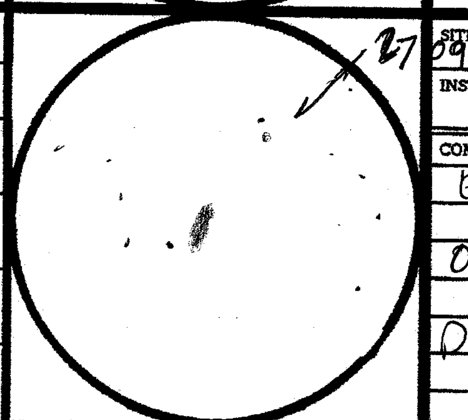
FT HALO AROUND
OBLONG NUC, 2 FS
BRACKET IT

NGC 2708

CONST

DATE 〃

TIME 455



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

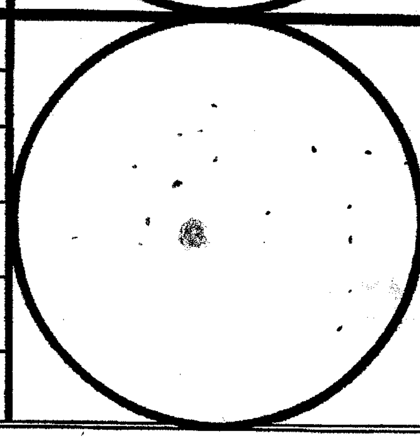
ELONG, SOMEWHAT BRITER
ONE END, WHICH HAS 2709 NOT H4
DIM GLOW OFF FROM IT
- N 2709

NGC 2721

CONST

DATE 〃

TIME 500



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

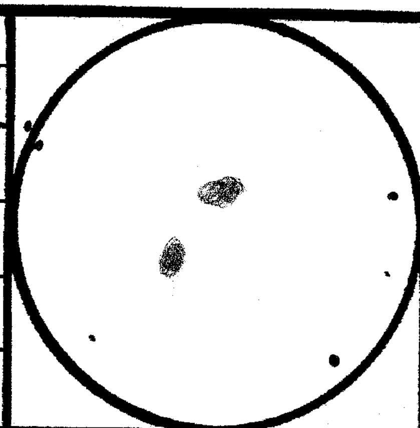
ROUND GLOW, NOT
MUCH DETAIL

GUS = 21 YO!

HERSCHEL OBSERVATIONS

H4's

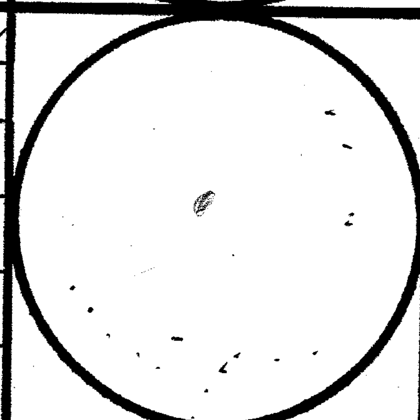
NGC 2992/3
CONST
DATE 4/9/19
TIME 510



SITE ACT | SEEING II | TRANS III
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
MINI VERSION OF
VIRGO'S "EYES" –
2992 IS A BIT LARGER
BRIGHTER, AND ELONG 3X2
2993 IS MUCH LIKE ITS TWIN
NO HINT OF SWOOPING OUTER ARMS

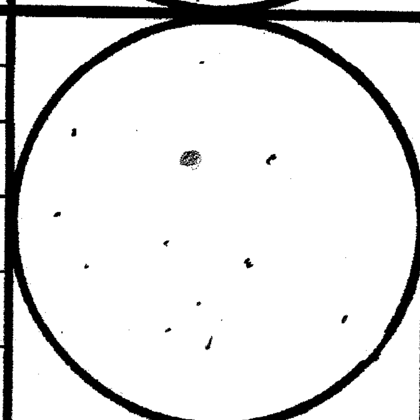
NGC 3072
CONST
DATE "
TIME 515



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
OVAL, PLAIN

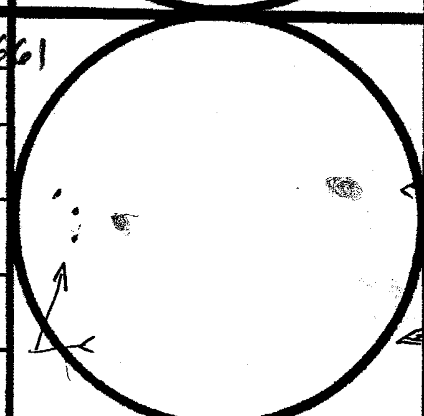
NGC 2592
CONST
DATE "
TIME 520



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
SAME, A HINT BRITER

NGC 3667/3661
CONST
002300
DATE "
TIME 525



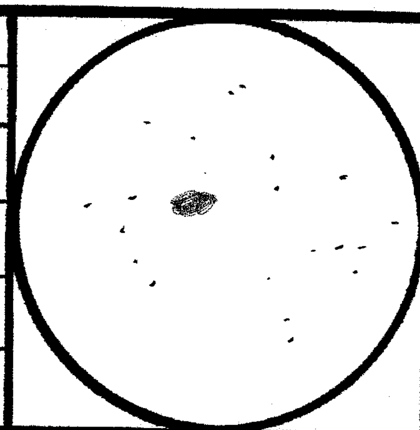
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

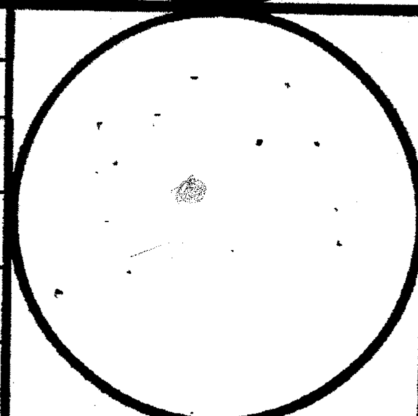
COMMENTS
TIGHT ARMS
~~3661~~ N3667 – MCG-02-29-026
NICE TIPPED SPIRAL
NEXT TO IT NOT SEEN = 3667A
← ANOTHER GX
WHICH IS 3661
CAT? NO COOL ASTERISM

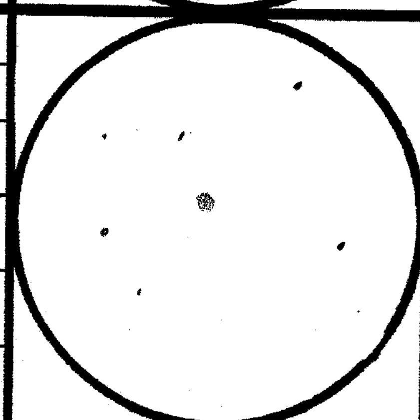
SO: 3667, 3661 SEEN
3667 A NOT

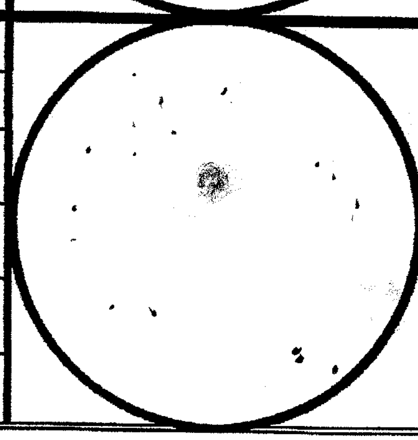
HERSCHEL OBSERVATIONS

H4's

NGC		SITE	SEEING	TRANS
NGC 2722		SITE: ACT	SEEING: II	TRANS: III
CONST		INSTR: 22UC	EYEPIECE: 10	POWER: 240
DATE 4/9/19		COMMENTS: No nuc, not small or dim		
TIME 530		Even glow, oval		

NGC		SITE	SEEING	TRANS
NGC 2863		SITE: ↓	SEEING:	TRANS:
CONST		INSTR: ↓	EYEPIECE: ↓	POWER:
DATE "		COMMENTS: dimmer, rounder		
TIME 535		no details		

NGC		SITE	SEEING	TRANS
NGC 2969		SITE: ↓	SEEING: ↓	TRANS:
CONST		INSTR: ↓	EYEPIECE: ↓	POWER:
DATE "		COMMENTS: sm, ok brite		
TIME 540		st nuc, no detail		

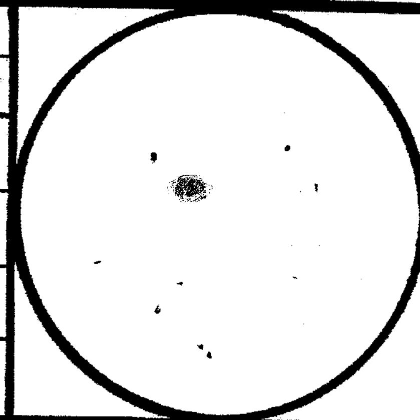
NGC		SITE	SEEING	TRANS
NGC 2980		SITE: ↓	SEEING: ↓	TRANS:
CONST		INSTR: ↓	EYEPIECE: ↓	POWER:
DATE "		COMMENTS: Med size & brite		
TIME 545		some hints of		
		clumps + sm. nuc		

2554 10E Nano Glow Nano 2558 10E vS vd 2577 med, nvc round 2582 s, vf no detail 2592 med, round, nvc 2 to dbls, pa 30.2

HERSCHEL OBSERVATIONS

2595 vvf sm. 2599 size, rd, next to A 2604 WSLF

NGC 3718
CONST
DATE 4/9/19
TIME 550

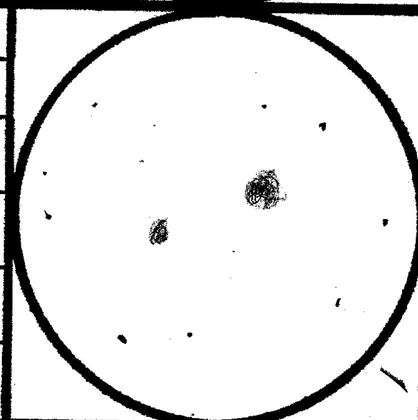


SITE ACT
SEEING II
TRANS II
INSTR 22UC
EYEPIECE 10
POWER 240
COMMENTS
H4's + GVS = 211

2608 rd, f, small hint of nvc

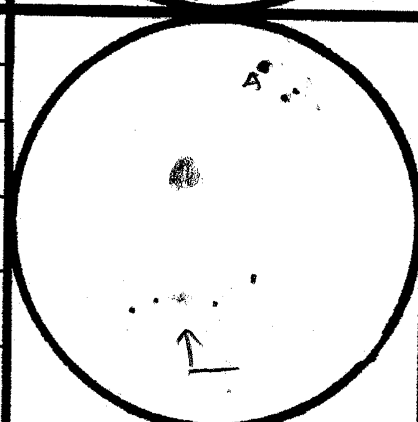
2661 sm, fa, no detail GHO

NGC 2562/3
CONST
DATE "
TIME 555



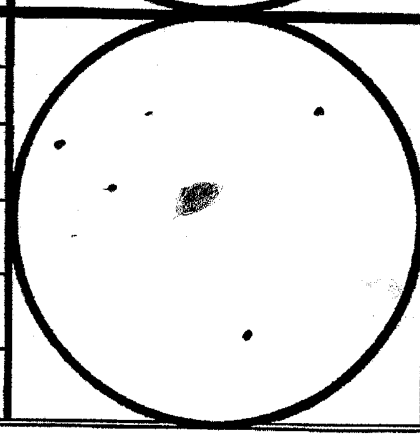
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

NGC 2628
CONST
DATE "
TIME 600



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
A = 11m 2628 NO DARK LANE
ITS A 2 TONE BLOB ON N SIDE
JUST A STAR

NGC 2648
CONST
DATE "
TIME 6:05

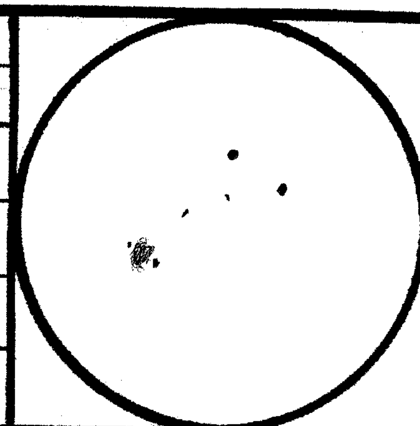
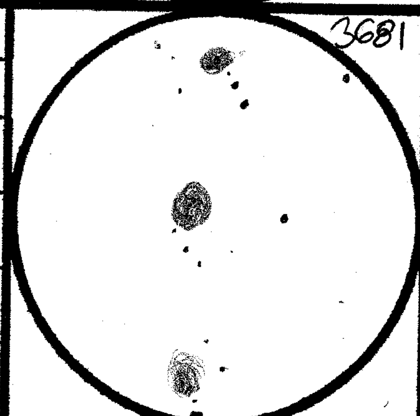
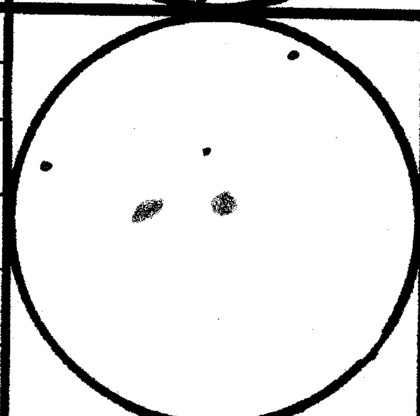
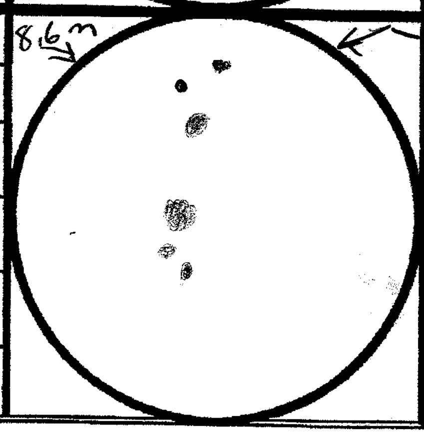


SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
LENTICULAR, EVEN EXC. 2 PATCHES (FS ?) MED SIZE & BRITE

2744 ms, mb, nvc next to f dbl / 2743 vs, vf, no det
2750 elong 4x1, Y of 4 stars
2906 tr p red 2x1 med, nvc next to Δ
3060 elong, nvc only est AV=3
3535 sm, dim vf dbl next to it
2948 vs vf no det

HERSCHEL OBSERVATIONS

3414 round w/ small dim nvc

NGC 2894		SITE ACT	SEEING II TRANS II-
CONST		INSTR 22UC	EYEPIECE 10 POWER 240
DATE 4/9/19		COMMENTS ROUND, HINTS OF ARMS, SMALL	H4'S +6US=21
TIME 7:00			
NGC ~~3680~~ 3686		SITE	SEEING TRANS
CONST + 3681	3681	INSTR	EYEPIECE POWER
+ 3684		COMMENTS ← MED, NVC MED BRITE ROUND ← 3684 GREAT, LG, BRITE OVAL ELLIP	
DATE 11			
TIME 7:10		← LARGEST DIM RD = 3686	
NGC ~~3823~~ 3825 +		SITE	SEEING TRANS
CONST		INSTR	EYEPIECE POWER
3822 →		COMMENTS ← 3825 WONDERFUL PAIR, SEEMS AWASH IN THEM IN AREA, VERY EVEN GLOWS 3822 SL. ELONG.	
DATE 11			
TIME 7:15			
NGC 3842	8.6m 	SITE	SEEING TRANS
CONST 3851		INSTR ← 3860 / 3873 + 3875	EYEPIECE POWER
~~3860A~~		COMMENTS	
~~3862~~		← 3842 MAGNIFICENT AREA ! ← 3851	
DATE 11			
TIME 7:20			

3462 round, med, sm. nvc
3567 sm. no det but vffs on edge
3068 round ft no det
3216 vf sm round
3226 ~~3862~~ 3862 nvc vf

3692 lg, f, round near FS
3768 mod, small nvc only?
3773 sm round ellip 2 to 1

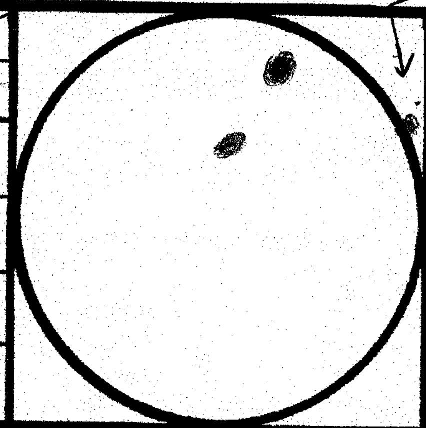
H4
& GUS = 21

HERSCHEL OBSERVATIONS

3857

NGC 3862
CONST 3875

DATE 4/9/19
TIME 845

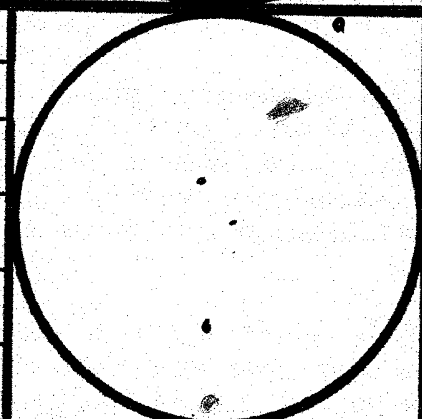


SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
TYP ELLIPS
W/ TINY FT 3857 NEAR

NGC 3884
CONST 3883

DATE
TIME 850



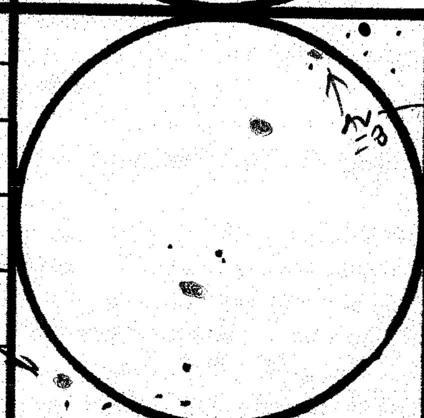
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
← 3884 A LITTLE UNEVEN
IN GLOW W/ 3x1 ELONG
NO DETAIL

3883 SMALL DIM

NGC 3947
CONST 3954
3937

DATE 3937
TIME 9:00



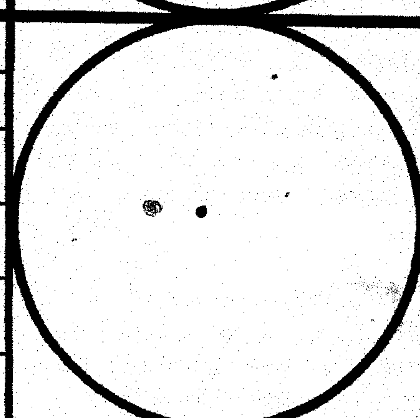
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS 3946
← 3954

← 3947

NGC 3940
CONST

DATE
TIME 9:10



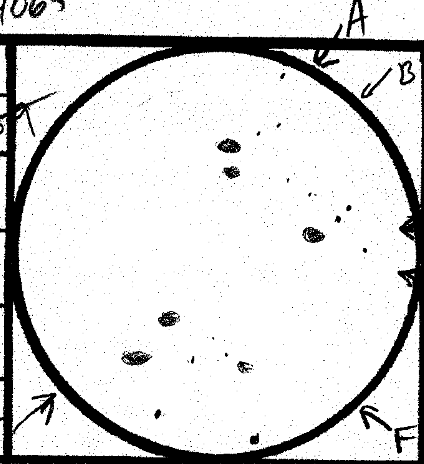
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

4074 4066
4055 4065

HERSCHEL OBSERVATIONS

H4's & Gus =21%

NGC ~~4060~~		SITE ACT — SEEING II — TRANS II-
CONST 4061 ~~4069~~		INSTR 22UC — EYEPIECE 10 — POWER 240
4070		COMMENTS
4076		A = 4053 B = 4065
4095		C = 4076 E = 4070
DATE 4/9/19		TINY GX W/ 4076 F = 4074
TIME 9:20UT		D = 4066
		AMAZING GROUP - MOST ARE ELLIPS OF VAR. SIZES, MAG & TIPPAGE

NGC		SITE — SEEING — TRANS
CONST		INSTR — EYEPIECE — POWER
		COMMENTS
DATE		
TIME		

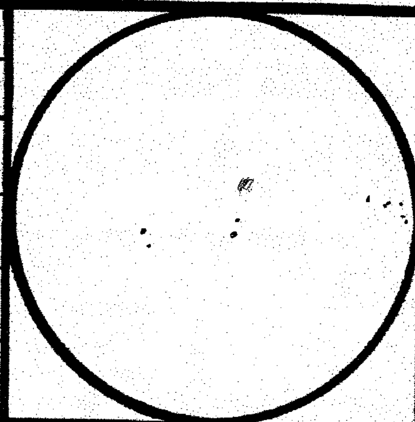
NGC		SITE — SEEING — TRANS
CONST		INSTR — EYEPIECE — POWER
		COMMENTS
DATE		
TIME		

NGC		SITE — SEEING — TRANS
CONST		INSTR — EYEPIECE — POWER
		COMMENTS
DATE		
TIME		

HERSCHEL OBSERVATIONS

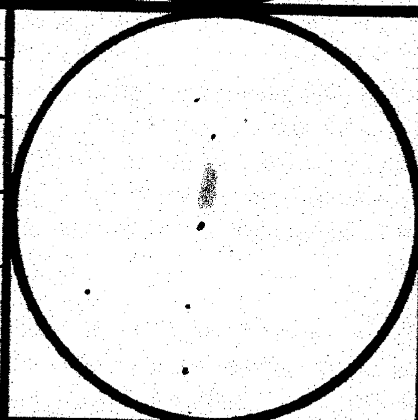
H4

NGC 2333
CONST
DATE 5/15/19
TIME 3:30



SITE ACT | SEEING I | TRANS III-
INSTR 22JC | EYEPIECE 10 | POWER 240
COMMENTS
NOMAD, SMALL
GREAT FIELD STARS

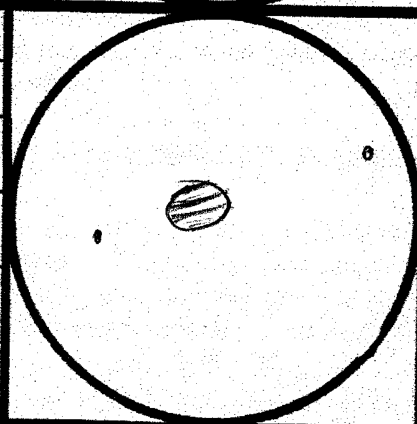
NGC 2435
CONST
DATE "
TIME 3:40



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
LG DIM BAR W/ NO CORE
NICE FS ON EACH SIDE
ELONG, EVEN GLOW

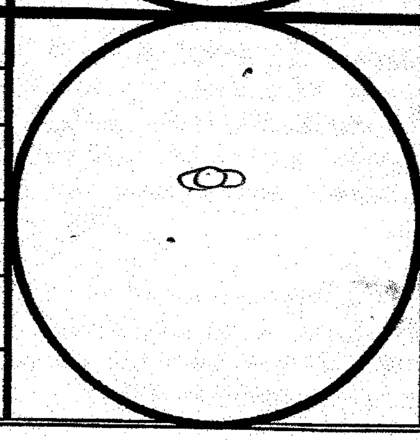
5/15/19

NGC ♃
CONST
DATE 5/20/19
TIME 9:46



SITE | SEEING | TRANS
INSTR ETX-125 | EYEPIECE 7mm | POWER
COMMENTS

NGC ♄
CONST
DATE "
TIME 10:25



SITE " | SEEING II | TRANS IV
INSTR " | EYEPIECE " | POWER
COMMENTS

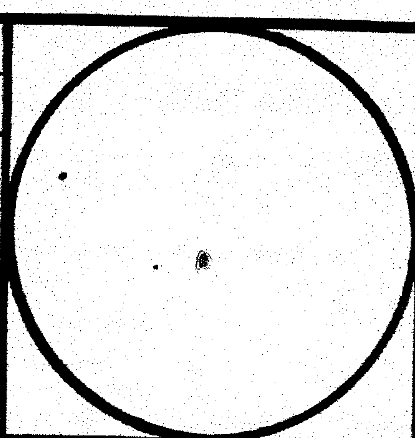
9:30 pm A 1 → ∞

HERSCHEL OBSERVATIONS

HIGH HUMIDITY

774

NGC	4928
CONST	
DATE	5/5/19
TIME	2:45

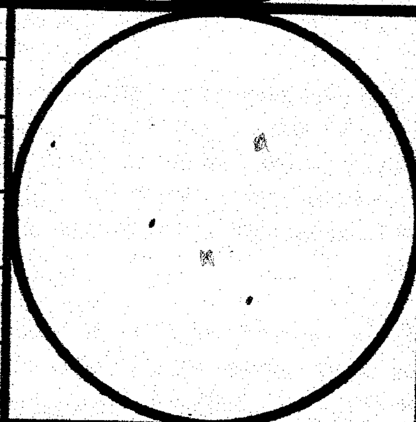


SITE	SEEING	TRANS
ACG	I	III
INSTR	**EYEPIECE**	**POWER**
22 VC	10	240

COMMENTS

SMALL, NOT DIM

NGC	4942 +
CONST	
DATE	〃
TIME	2:55



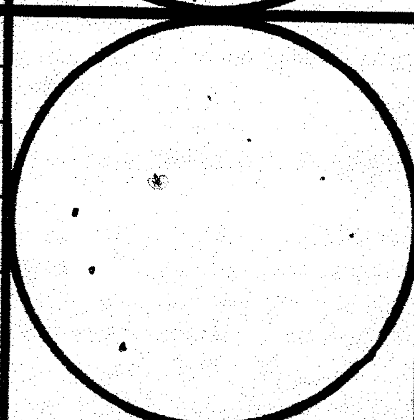
SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

BOTH IN FLD, NO DETAIL

← MCG 01-33-095

NGC	2529
CONST	
DATE	〃
TIME	3:05



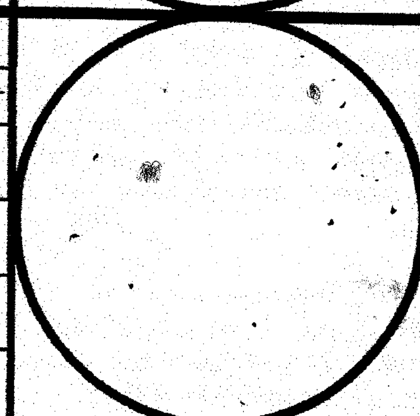
SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

COMPACT NUC,

SOME HINTS OF HALO

NGC	2385/8
CONST	~~+2389~~
DATE	〃
TIME	3:15



SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

BOTH SEEN + EXTRA ONE

~~2389 IS ROUND~~

2385 2X1 OVAL

2388 = "~~EXTRA~~ ONE", NEARLY ROUND

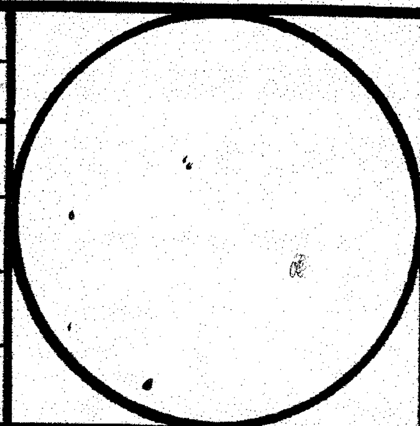
SIMILAR TO ME

SEE 2389 LATER →

HERSCHEL OBSERVATIONS

H3

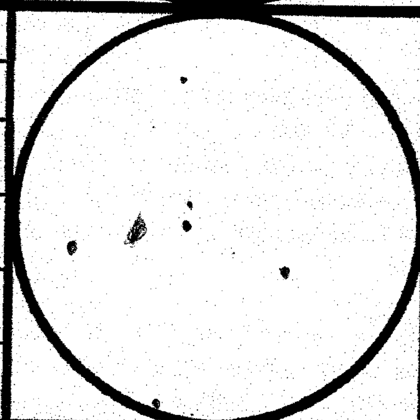
NGC	2679
CONST	
DATE	6/1/19
TIME	2:45



SITE	ACT	SEEING II	TRANS II
INSTR	22UC	EYEPIECE 10	POWER 240
COMMENTS			

11

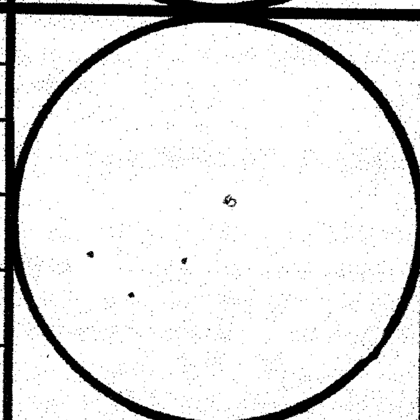
NGC	2764
CONST	
DATE	11
TIME	2:55



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS			

11

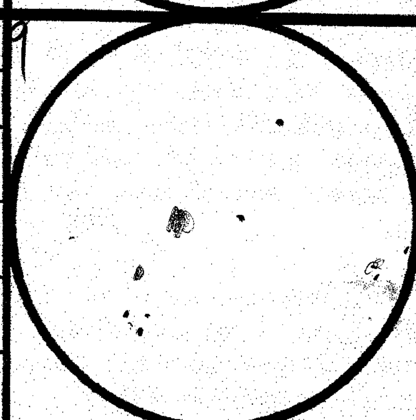
NGC	2774
CONST	
DATE	11
TIME	305



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS	TINY & DIM		

11

NGC	2778/79
CONST	/80
DATE	11
TIME	315



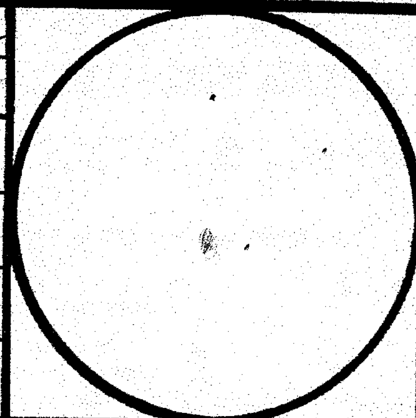
SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS			

HERSCHEL OBSERVATIONS

4 BRITE METEOR

-2!

gold
4 pieces

NGC 3872		SITE ACT
CONST		INSTR 22UC
		SEEING II
		TRANS II
		EYEPIECE 10
DATE 6/1/19		POWER 240
TIME 5:00		COMMENTS

NGC		SITE
CONST		INSTR
		SEEING
		TRANS
		EYEPIECE
DATE		POWER
TIME		COMMENTS

NGC		SITE
CONST		INSTR
		SEEING
		TRANS
		EYEPIECE
DATE		POWER
TIME		COMMENTS

NGC		SITE
CONST		INSTR
		SEEING
		TRANS
		EYEPIECE
DATE		POWER
TIME		COMMENTS

9:29 +0L
α 7 K

α Vir

om18
12
& 21
10
8 ε Vir

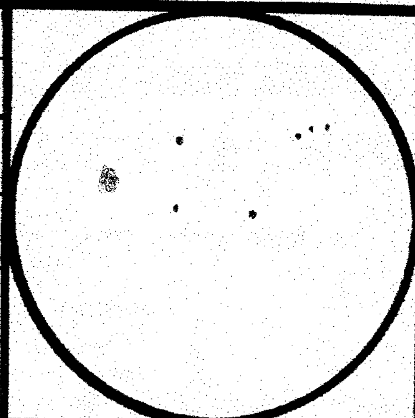
HAY ⇏ LAMOR TODAY

Antares
Rench sunset
Sunsrs
Orion gone

HERSCHEL OBSERVATIONS

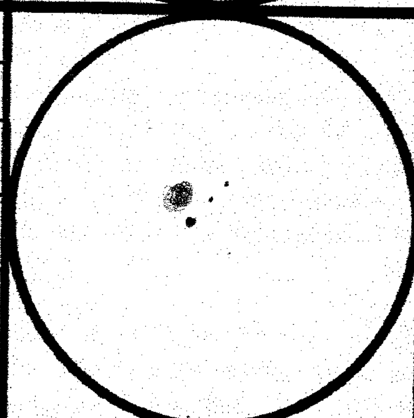
H3

NGC 3411		SITE ACT	SEEING II	TRANS II
CONST		INSTR 22 VC	EYEPIECE 10	POWER 240
DATE 5/31/19		COMMENTS		
TIME 2:30				



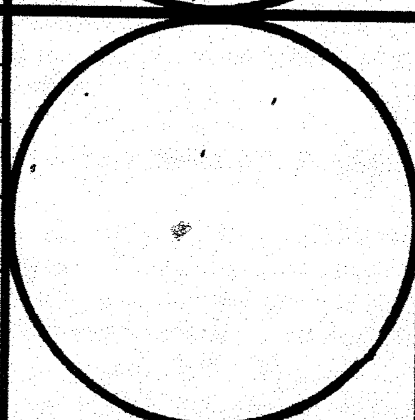
1002
w3667 Pro
~10m

NGC 3486		SITE ↓	SEEING ↓	TRANS
CONST		INSTR	EYEPIECE	POWER
DATE		COMMENTS		
TIME 240				



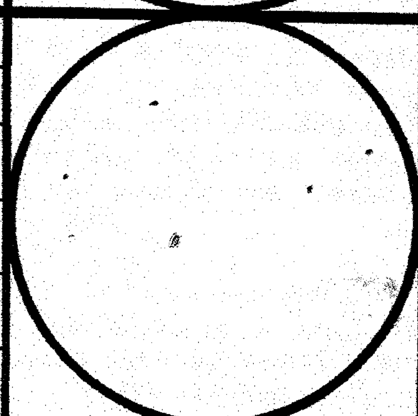
〃

NGC 3667 A		SITE ↓	SEEING ↓	TRANS
CONST		INSTR 10	EYEPIECE	POWER
DATE		COMMENTS		
TIME 245				



〃

NGC 3591		SITE ↓	SEEING ↓	TRANS
CONST		INSTR	EYEPIECE	POWER
DATE		COMMENTS		
TIME 250				

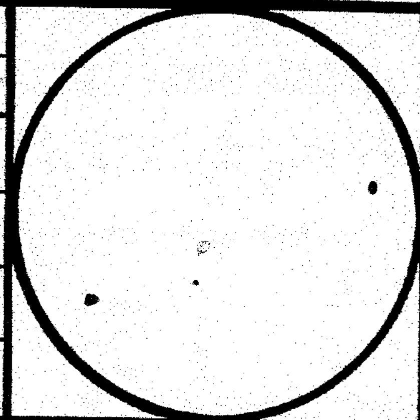


〃

HERSCHEL OBSERVATIONS

H3

NGC 3122
CONST
DATE 5/31/19
TIME 300

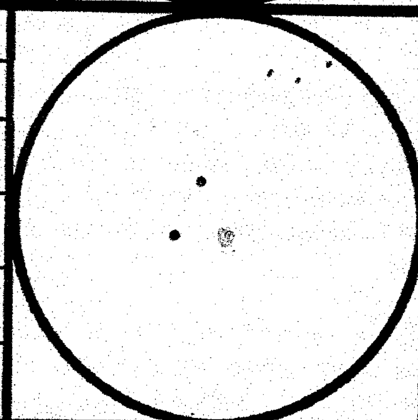


SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
USE 3115 TO FIND THIS
V. DIM & V. SMALL

"

NGC 2914
CONST
DATE "
TIME 310

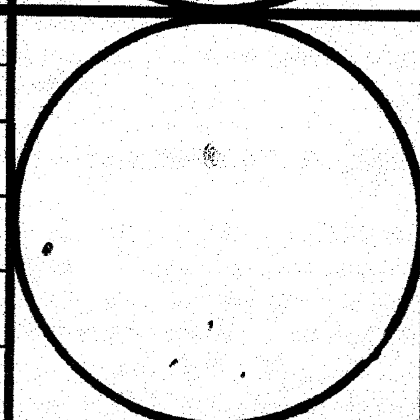


SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

"

NGC 2939
CONST
DATE "
TIME 325

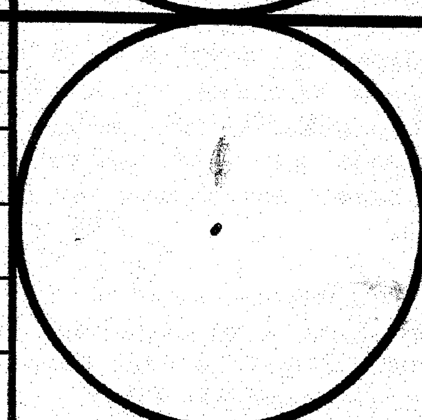


SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
3129 LED thru

"

NGC 2990
CONST
DATE "
TIME 335



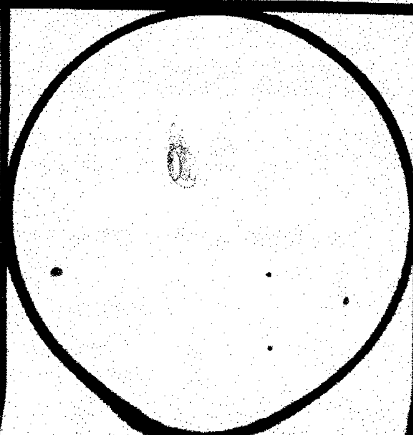
SITE ↓ | SEEING ↓ | TRANS
INSTR 10 | EYEPIECE | POWER

COMMENTS
COULD SEE IT BEFORE
EYE IN EP!

HERSCHEL OBSERVATIONS

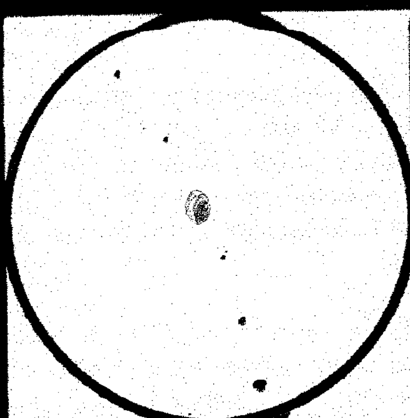
H3

NGC 3055
CONST
DATE 5/31/19
TIME 340



SITE ACT
SEEING II TRANS II-
INSTR 22 UC
EYEPIECE 10 POWER 240
COMMENTS
SPIRAL

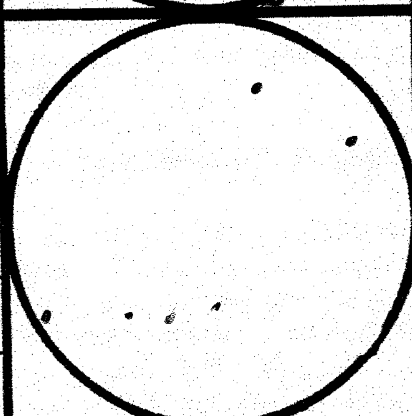
NGC 3070
CONST
DATE "
TIME 350



SITE ↓ SEEING ↓ TRANS
INSTR EYEPIECE POWER
COMMENTS
LINE

"

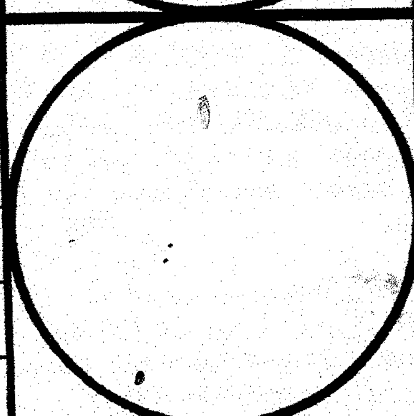
NGC 3080
CONST
DATE "
TIME 400



SITE ↓ SEEING ↓ TRANS
INSTR EYEPIECE POWER
COMMENTS
TINY!

"

NGC 3153
CONST
DATE "
TIME 410



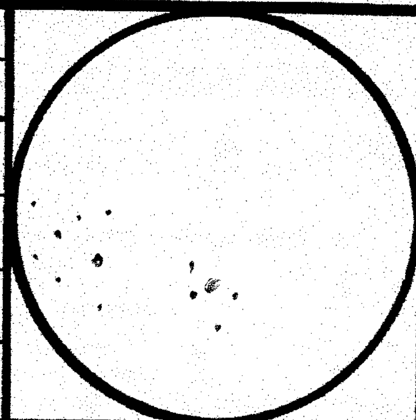
SITE ↓ SEEING ↓ TRANS
INSTR EYEPIECE POWER
COMMENTS

"

HERSCHEL OBSERVATIONS

H3

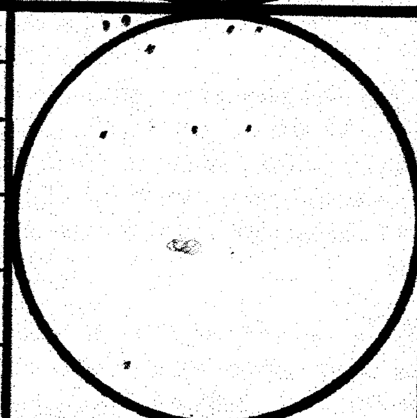
NGC 3791
CONST
DATE "
TIME 420



SITE ACT
SEEING II
TRANS II-
INSTR 22UC
EYEPIECE 10
POWER 240
COMMENTS

"

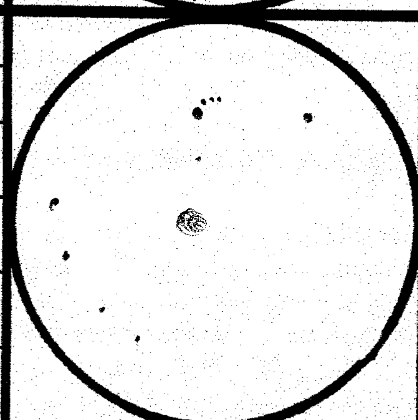
NGC 4035
CONST
DATE "
TIME 430



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
DIM:

"

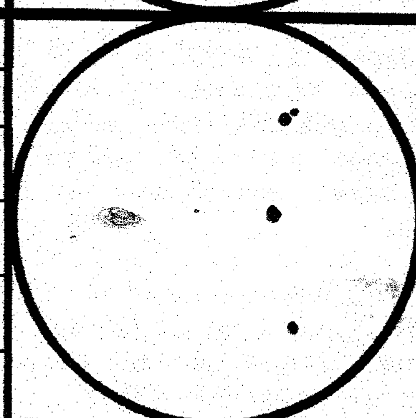
NGC 4087
CONST
DATE "
TIME 440



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

"

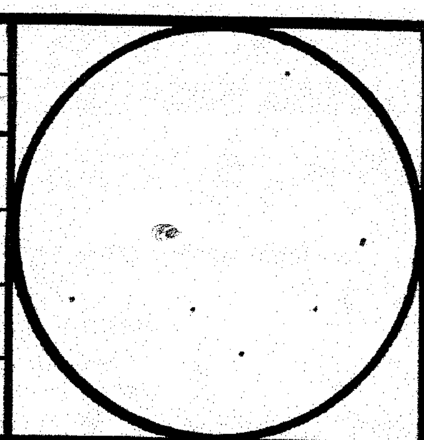
~~NGC~~ I 2995
CONST
DATE "
TIME 445



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

NGC 4114

CONST



DATE 〃

TIME 450

SITE ACT | SEEING II | TRANS II-

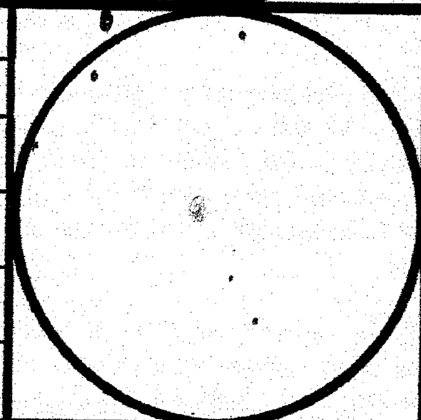
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS

H3

NGC 4177

CONST



DATE 〃

TIME 500

SITE | SEEING | TRANS

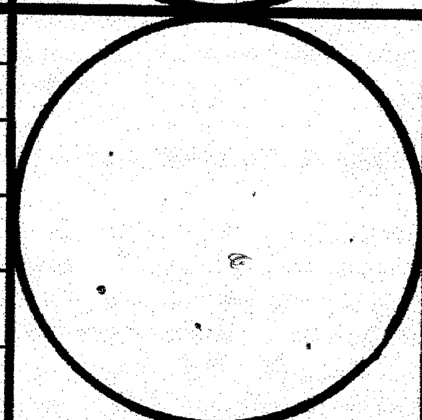
INSTR | EYEPIECE | POWER

COMMENTS

〃

NGC 4263

CONST



DATE 〃

TIME 510

SITE | SEEING | TRANS

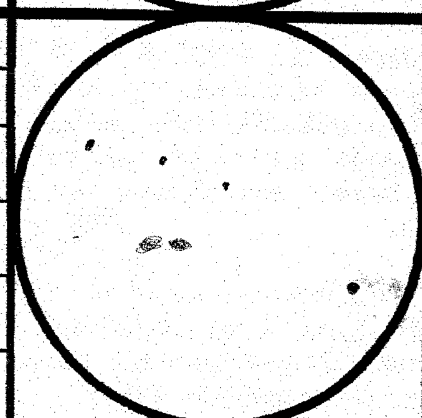
INSTR | EYEPIECE | POWER

COMMENTS

〃

NGC 4403/4

CONST



DATE 〃

TIME 520

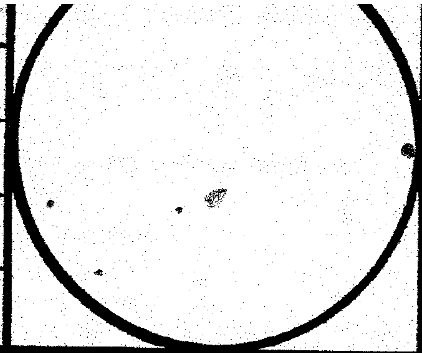
SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

〃

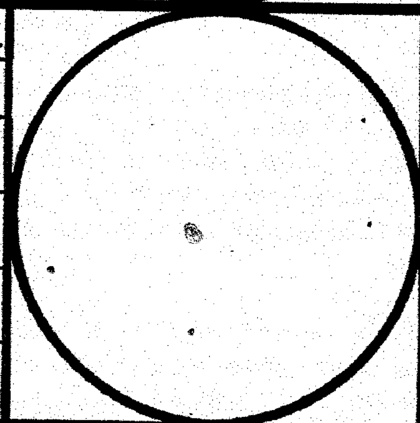
DATE	"
TIME	525



INSTR	22UC	EYEPIECE 10	POWER 240
COMMENTS			

"

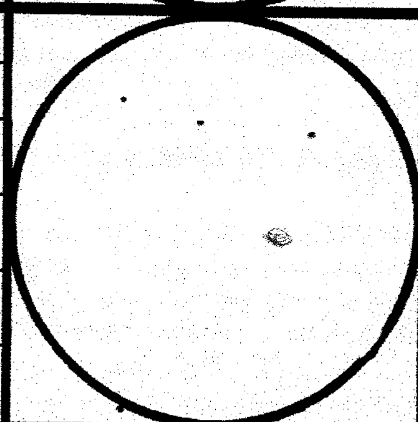
NGC	3952
CONST	
DATE	"
TIME	530



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS			

"

NGC	4044
CONST	
DATE	"
TIME	535



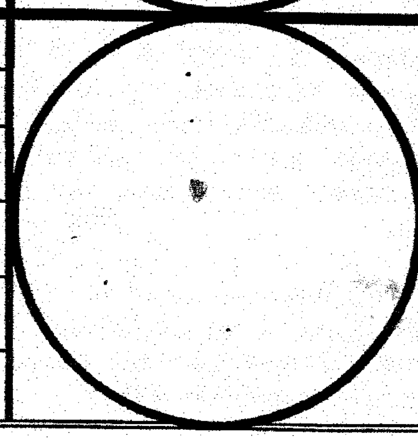
SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS			

x

FLO :

"

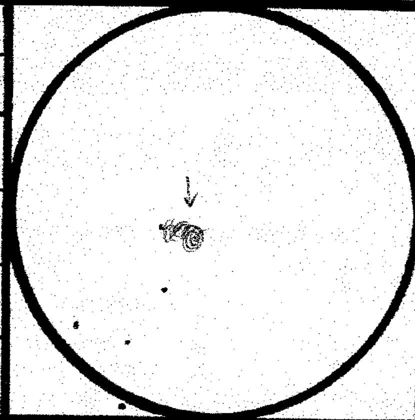
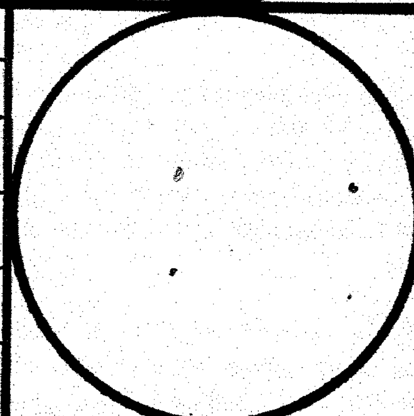
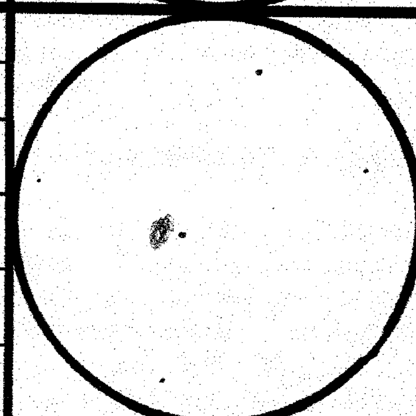
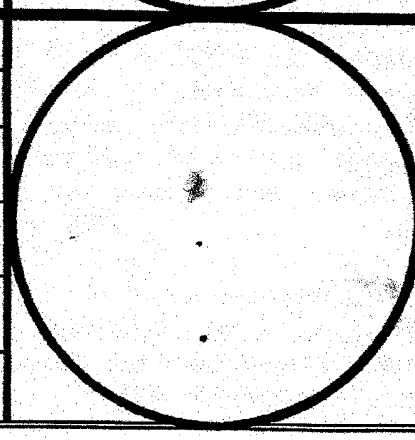
NGC	4714
CONST	
DATE	"
TIME	540



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS			

"

HERSCHEL OBSERVATIONS

NGC 4724/27 CONST DATE '' TIME 545		SITE ACT · SEEING II · TRANS III INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS
NGC 4726 CONST DATE '' TIME 550		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS
NGC 4748 CONST DATE '' TIME 600		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS
NGC 4763 CONST DATE 5/31/19 TIME 6:10		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS

H3

Not H3

H3

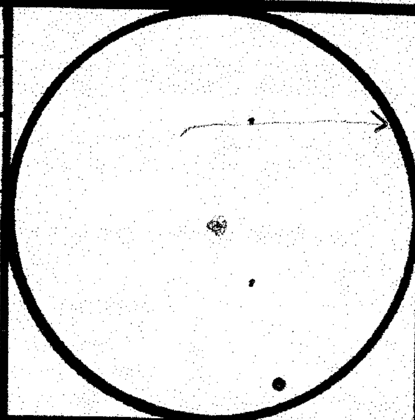
H3

Gem

1X

HERSCHEL OBSERVATIONS

NGC 6010
CONST
DATE 6/9/19
TIME 248

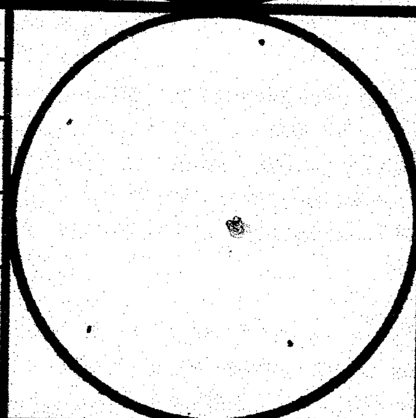


SITE ACT
SEEING II
TRANS II
INSTR 22
EYEPIECE 10
POWER

H3

COMMENTS
FT SAT 2:42 UT
1554 +0.6 NO 10
6010 ONLY CORE SEEN — NO
STUBBY ARMS NOT TOO
SMALL, A BIT DIM

NGC 2979
CONST
DATE 11
TIME 250

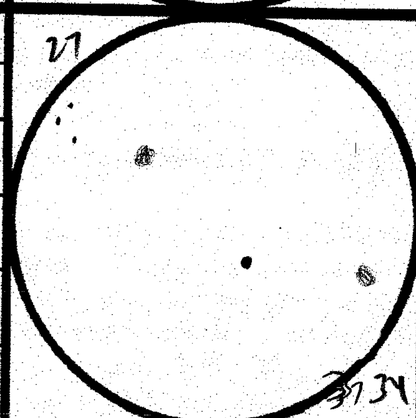


SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER

11

COMMENTS
SMALL DIM ELLIP
POSITION (X)

NGC 3727/34
21
CONST
DATE 11
TIME 300

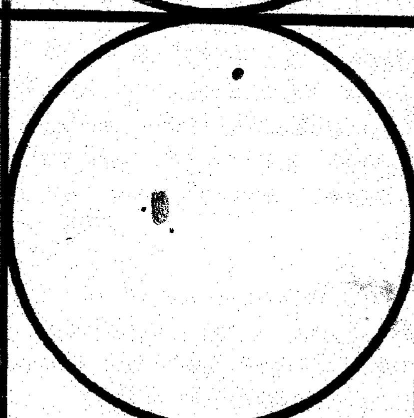


SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER

11

COMMENTS
(FOV) 3727 SMALLER
DIM BUT FS
HELP
3734 SMALL DIM SPOT

NGC 2838
CONST
DATE 11
TIME 330



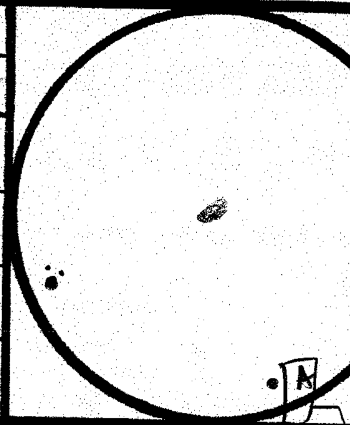
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER

11

COMMENTS
ANOTHER COMPACT ELLIPTICAL

HERSCHEL OBSERVATIONS

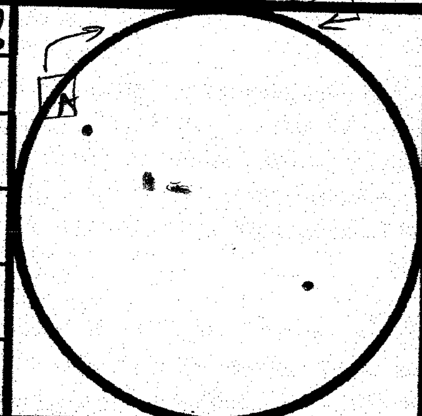
NGC 2844	SITE ACT	SEEING II · TRANS II
CONST	INSTR 22UC	EYEPIECE 10 · POWER 240
DATE 6/9/19	COMMENTS	
TIME 340		



H3

COMMENTS
2x1 "TIPPED" OVAL –
NO DETAIL

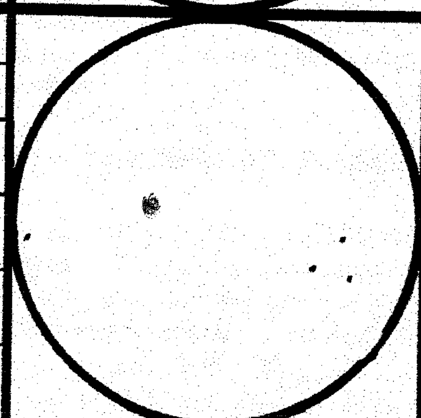
NGC 2852/3	SITE ↓	SEEING · TRANS ↓
CONST	INSTR	EYEPIECE · POWER
DATE 〃	COMMENTS	
TIME 345		



〃

COMMENTS
← 2853 ELONG   NO DETAILS
← 2852 OVAL

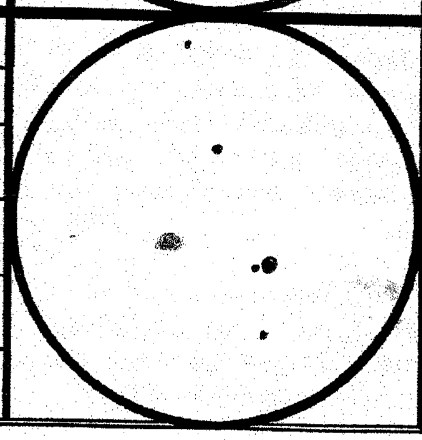
NGC 2840	SITE ↕	SEEING · TRANS ↓
CONST	INSTR	EYEPIECE · POWER
DATE 〃	COMMENTS	
TIME 350		



〃

COMMENTS
2840 ROUND EVEN GLOW

NGC 2938	SITE ↓	SEEING · TRANS ↓
CONST	INSTR	EYEPIECE · POWER
DATE 〃	COMMENTS	
TIME 355		



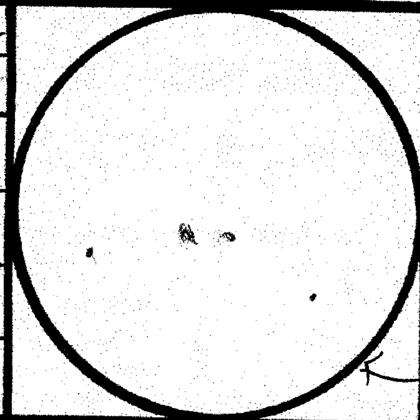
〃

COMMENTS
CORE ONLY – "HAS A STUB ARM

HERSCHEL OBSERVATIONS

H3

NGC 3066+A
CONST +3065

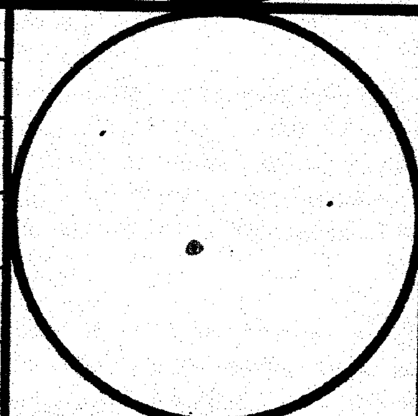


DATE 6/9/19
TIME 400

SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
NO "A" ON SIMBAD — MAY BE 3065
← 3065 SMALL COMP ELLIP
← 3066 A BIT ELONG, NO DETAIL

NGC 3102
CONST



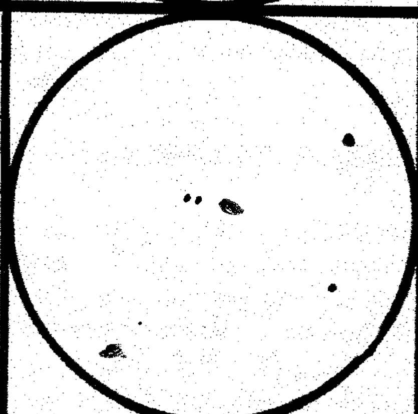
DATE 〃
TIME 405

SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

//

COMMENTS
TINY & DIM
MATCHES POOR FIELD

NGC 4878/9
CONST



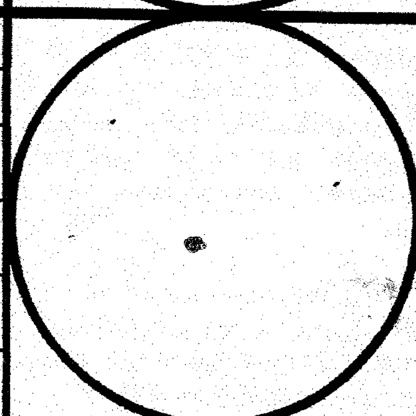
DATE 〃
TIME 410

SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

//

COMMENTS NICE 2X1 ELONG COMPACT GALAXY
← 4888 w/ WDS J13005-0604A
12th mags. Unresolved at first led to larger 4888 but seen here at best moments steady
← "4879" FS
← 4878
COMPACT OVAL

NGC 4970
CONST



DATE 〃
TIME 415

SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER

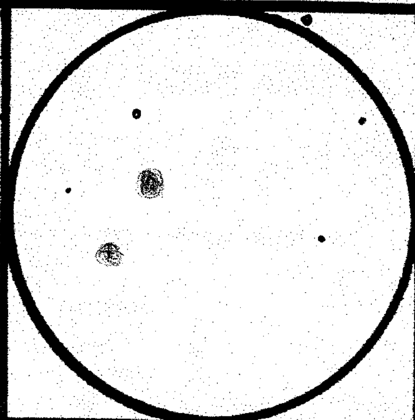
//

COMMENTS
SMALL & DIM
OVAL, DIM FIELD

● A Vir

HERSCHEL OBSERVATIONS

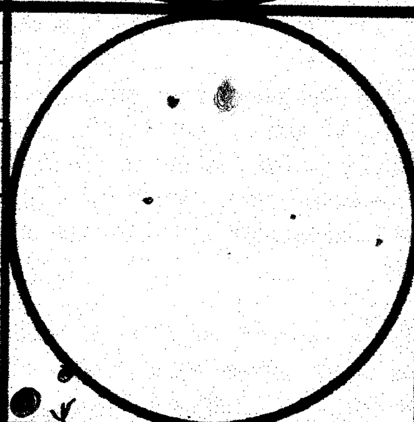
NGC	4989 + 4990	SITE	ACT	SEEING	II	TRANS	II
CONST		INSTR	22 UC	EYEPIECE	10	POWER	240
DATE	6/9/19						
TIME	4:20						



COMMENTS
← 4989 oval
← 4990 smaller, round

A3

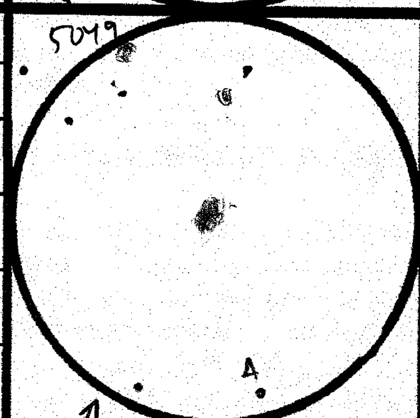
NGC	4993	SITE	↓	SEEING	↓	TRANS	
CONST		INSTR		EYEPIECE		POWER	
DATE	11						
TIME	4:25						



COMMENTS
oval fairly bright & ~~not~~ small

11

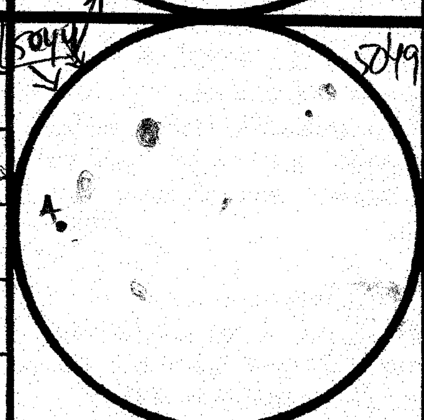
NGC	5047	SITE	↓	SEEING	↓	TRANS	
CONST	AREA 5044 + 5046 + 5049	INSTR		EYEPIECE		POWER	
DATE	11						
TIME	4:30						



COMMENTS
← 5046
5044

11

NGC	Cont. 5044	SITE	↓	SEEING		TRANS	
CONST	↓ ADD 5035 & 5037	INSTR		EYEPIECE	↓	POWER	
DATE	11						
TIME	4:30						



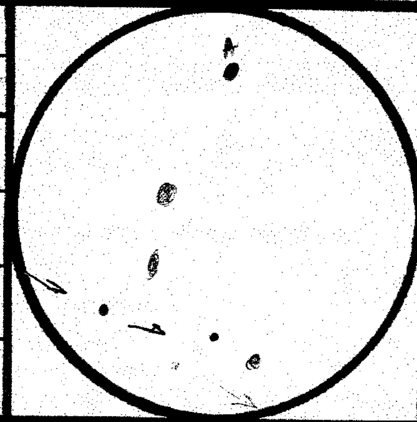
COMMENTS
← 5035 (FAR)
← 5047 (NEAR)
← 5037

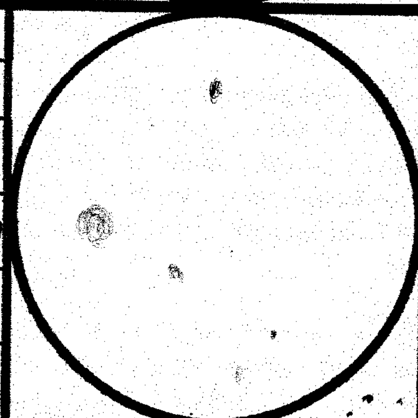
11

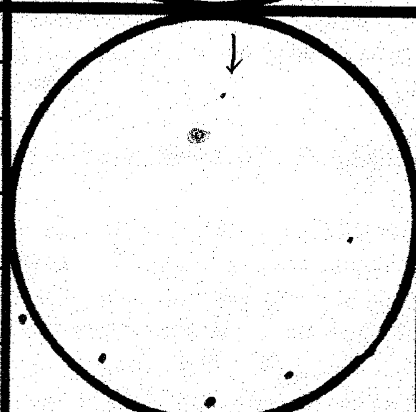
39080 OLD 1324 −13 ← 4:35:55 − 2:08 = 4:33:47

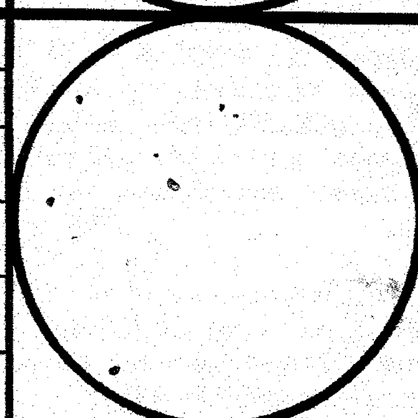
HERSCHEL OBSERVATIONS

H3

NGC 5076		SITE ACT · SEEING II · TRANS II
CONST AREA		INSTR 22UC · EYEPIECE 10 · POWER 240
LINE		COMMENTS
		←5072 OVAL, COMPACT, P. BRITE
DATE 6/9/19		←5070 2X1 ELLIP
TIME 435		~~MCG 60 2034-031~~
		←

NGC Cont. ↓		SITE ↓ · SEEING ↓ · TRANS
CONST		INSTR · EYEPIECE · POWER
A		COMMENTS 〃
		←5088
DATE 〃		~~←5079 02-34-031~~
TIME 〃		←5079 3
		←5076

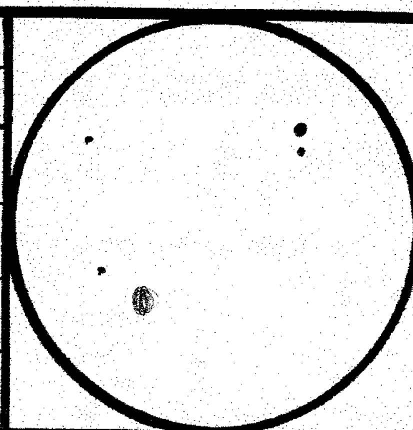
NGC 5094		SITE ↓ · SEEING ↓ · TRANS 〃
CONST		INSTR · EYEPIECE · POWER
		COMMENTS
		←5094 SMALL OVAL GLOW
DATE 〃		↖ ACTUALLY MCG-02-34-036
TIME 440		OTHER ~~SAT~~ GX NOT SEEN

NGC 5111		SITE ↓ · SEEING ↓ · TRANS 〃
CONST		INSTR · EYEPIECE · POWER
		COMMENTS
		N1AN TINY & DIM
DATE 〃		5110 = 5111
TIME 445		

415899 / prev I 1357 -5.5   4:50 ← 2:09 5369 FLO

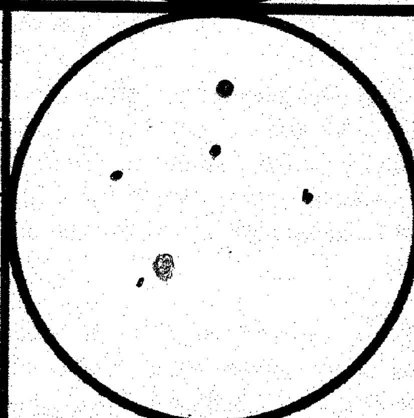
HERSCHEL OBSERVATIONS

NGC 5203		
CONST	SITE ACT	SEEING II / TRANS II
	INSTR 22UC	EYEPIECE 10 / POWER 240
DATE 6/9/19	COMMENTS	
TIME 505	OVAL GLOW - NOT SMALL OR DIM W/ COOL WIDE FS DBL NEAR.	



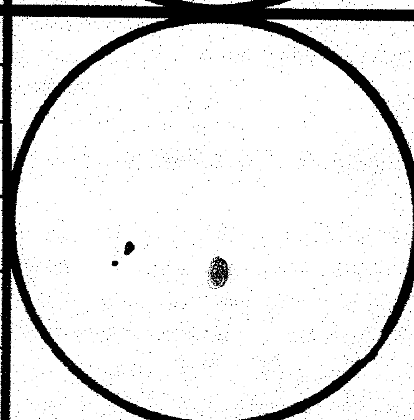
H3

NGC 5306		
CONST	SITE	SEEING / TRANS
	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS	
TIME 500	NICE OVAL GLOW. SOME FS ARE COMP GXS	



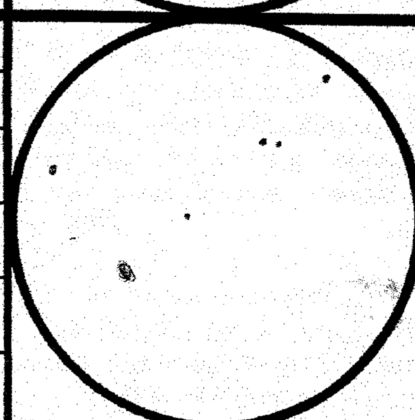
11

NGC 5343		
CONST	SITE	SEEING / TRANS
	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS	
TIME 455	ELLIP-OVAL NO DETAIL WIDE FS DBL SEEN	



11

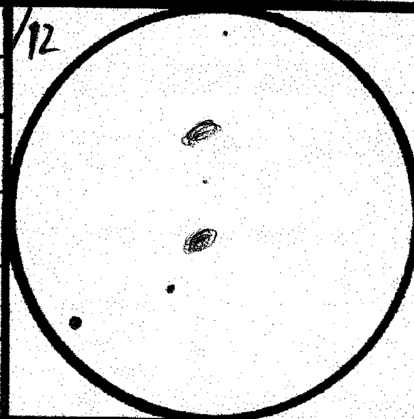
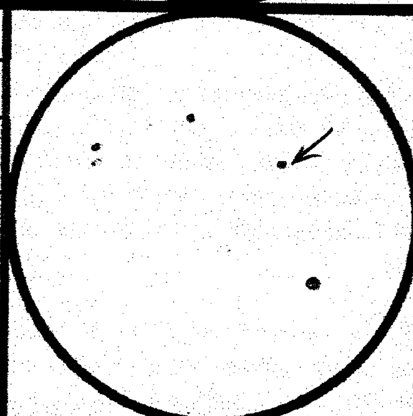
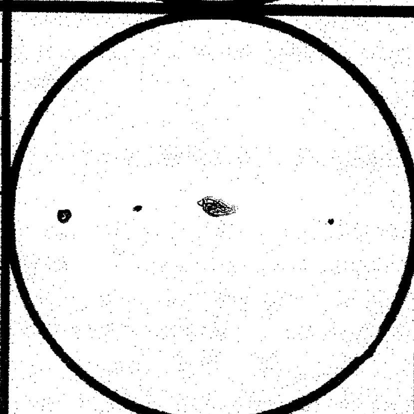
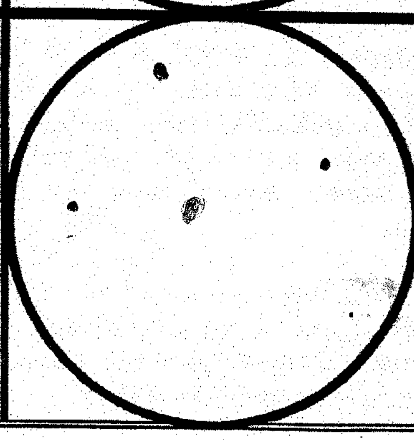
NGC 5369		
CONST	SITE	SEEING / TRANS
	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS	
TIME 450	ANOTHER OVAL FS VERIFY	



11

HERSCHEL OBSERVATIONS

← 5212 TINY DIM SPOT

NGC 5208/9/12 CONST DATE 6/9/19 TIME 515		SITE ACT · SEEING II · TRANS II INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS ← 5209 SL. ELONG NO DETAIL ← 5208 OVAL ELLIP
NGC 5224 CONST DATE 11 TIME 520		SITE ↓ · SEEING ↓ · TRANS INSTR · EYEPIECE · POWER COMMENTS VERY STELLAR — NO DETAIL AT ALL
NGC 5235 CONST DATE 11 TIME 530		SITE ↓ · SEEING ↓ · TRANS INSTR · EYEPIECE · POWER COMMENTS ELONG COMPACT, NO DETAIL, NOT DIM
NGC 5239 CONST DATE 11 TIME 540		SITE ↓ · SEEING ↓ · TRANS INSTR · EYEPIECE · POWER COMMENTS 5239 OVAL, V. SMALL NO DETAIL

H3 (EXC. NGC 5212)

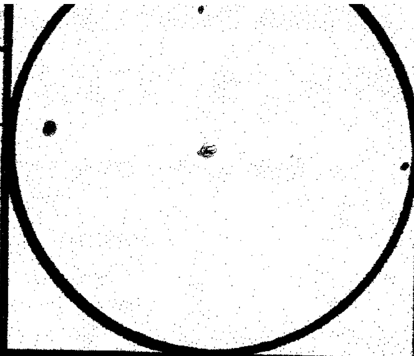
11

11

11

#3

CONST



INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS

V. FAINT, SMALL, SL. OVAL

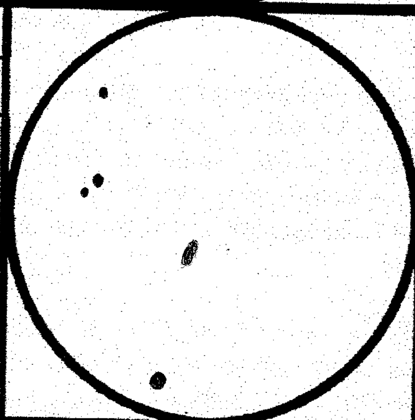
COMP EVEN GLOW

DATE 6/9/19

TIME 530

NGC 5258

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

2X1 ELONG EVEN GLOW

← ACTUALLY 2 – 5257 & 5258

BUT NOT SPLIT HERE

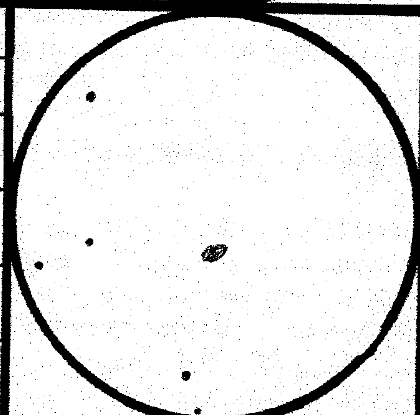
DATE ''

TIME 600

''

NGC 5327

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

SMALL, MED. DIM EVEN

OVAL GLOW – NO ARMS

FOR ME

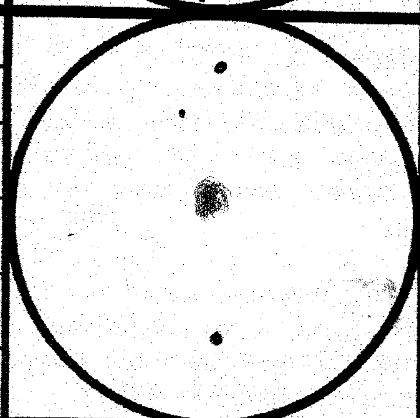
DATE ''

TIME 610

''

NGC 5329

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

OVAL EVEN GLOW

DATE ''

TIME 620

''

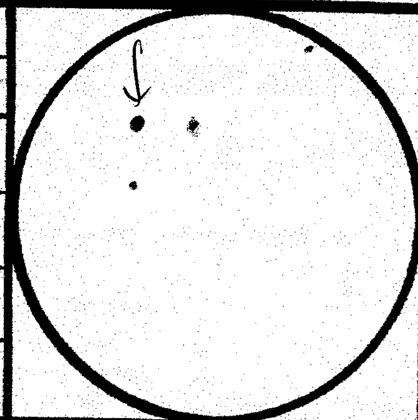
40981 7:04 ut ap 9:02 Sh'

-3 F lix

HERSCHEL OBSERVATIONS

H3

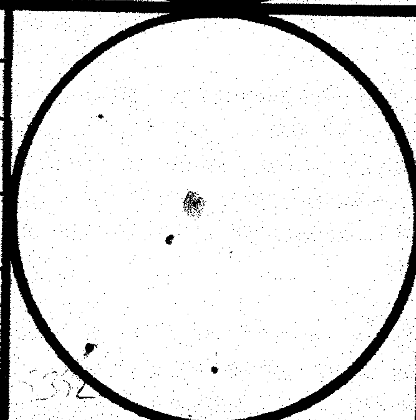
NGC 5331
CONST
DATE 6/9/19
TIME 630



SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
"STAR" IS ACTUALLY 5331
SHAPE IS OPEN CLAM BUT
I CAN'T DISCERN,
OBJECT SEEN, BUT NOT THE DETAIL

NGC 5374
CONST
DATE 11
TIME 640

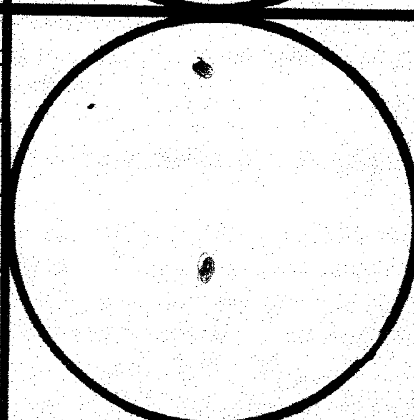


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

11

COMMENTS
NICE ROUND GLOW -
SM NUC, HINT OF ARMS
← 5331

NGC 5386
CONST
DATE 11
TIME 645

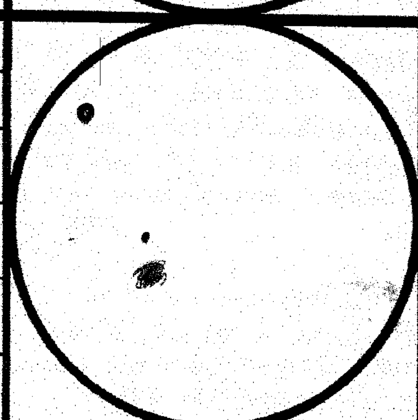


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

11

COMMENTS
← 5386 SMALL OVAL CORE
STAR ON IT
← 5382 SOME HINT OF
COMPACT NUC

NGC 5416
CONST
DATE 11
TIME 700



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

11

COMMENTS
NOT DIM, COMPACT NUC,
HINTS OF GLOW IN HALO

Belt of Venus!

♀ or Gem

2130 Capella * twill!

N F's
-1 +2
2133 34

VERY MOONY

* CAPELLA AZ50 AT DAWN - SEE LAST PAGE!

BUT CLEAR & COOL

1x

AZ=325°

HERSCHEL OBSERVATIONS

2629 ↓

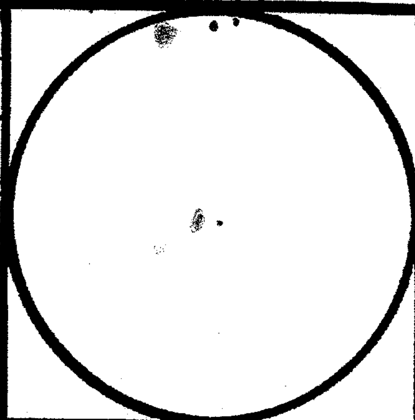
H3 (unless noted) ↓

NGC 2629/41

CONST

DATE 6/14/19

TIME 250



SITE ACT | SEEING II | TRANS III (D)

INSTR 22 VC | EYEPIECE 10 | POWER 240

COMMENTS

↖2629 w/2 FS

↖2641 w/1 FS

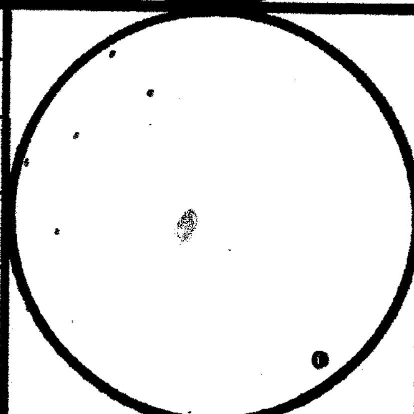
NO DETAILS

NGC 2650

CONST

DATE "

TIME 300



SITE ↓ | SEEING | TRANS ↓

INSTR | EYEPIECE | POWER

COMMENTS

OVAL CORE

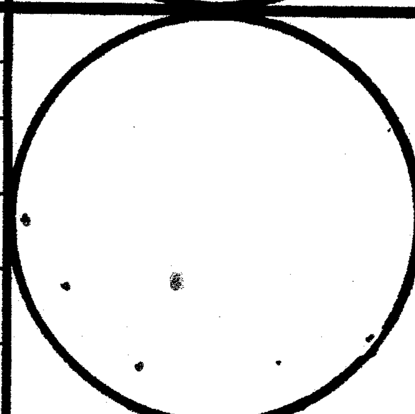
Golden star in fld

NGC 2684

CONST

DATE "

TIME 305



SITE ↓ | SEEING | TRANS ↓

INSTR | EYEPIECE | POWER

COMMENTS

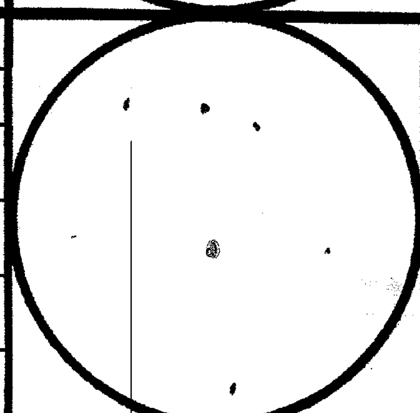
TINY, NOT DIM

NGC 2908

CONST

DATE "

TIME 310



SITE ↓ | SEEING | TRANS ↓

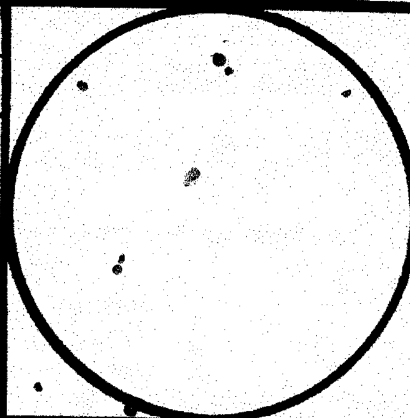
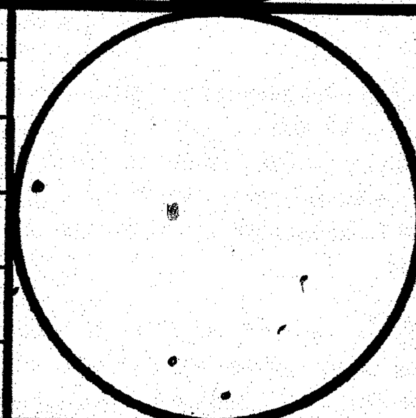
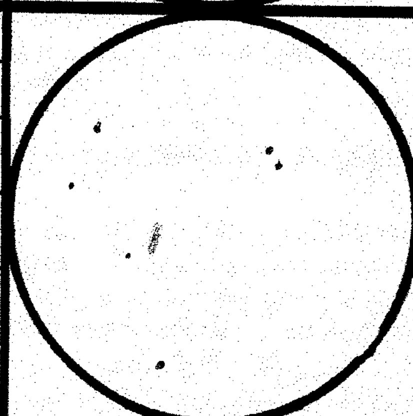
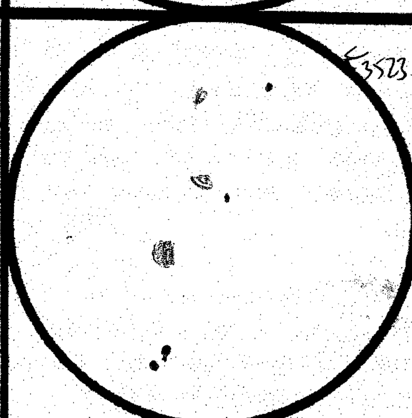
INSTR | EYEPIECE | POWER

COMMENTS

ELLIP

HERSCHEL OBSERVATIONS

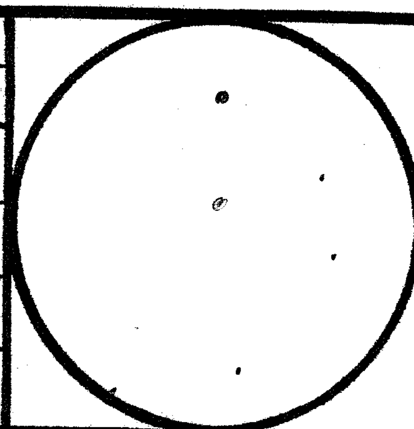
H3

NGC 2977 CONST DATE 6/14/19 TIME 315		SITE ACT · SEEING II · TRANS III (2) INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS sl. Elong, no detail 2 pairs F3
NGC 2963 CONST DATE " TIME 325		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS ONLY BAR SEEN
NGC 3043 CONST DATE " TIME 335		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS ELONG, SOME MOTTLE
NGC 3500/23+ CONST U6090 DATE " TIME 345		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS N3500 = N3465 BRIGHT ELLIP U6090 OVAL SPOT 3523 ROUND CORE

HERSCHEL OBSERVATIONS

H3

NGC	3470
CONST	
DATE	6/14/19
TIME	350

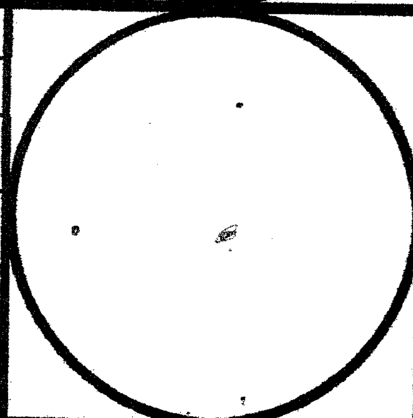


SITE	ACT	SEEING ~~II~~	TRANS ~~III~~ (D)
INSTR	22UC	EYEPIECE 10	POWER 240

COMMENTS

ELLIP, NO DETAIL

NGC	3471
CONST	
DATE	"
TIME	400

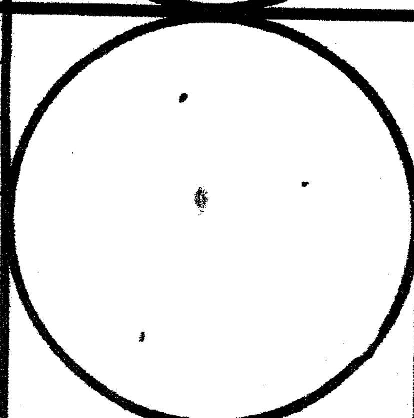


SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

SMALL OVAL GLOW

NGC	3488
CONST	
DATE	"
TIME	410



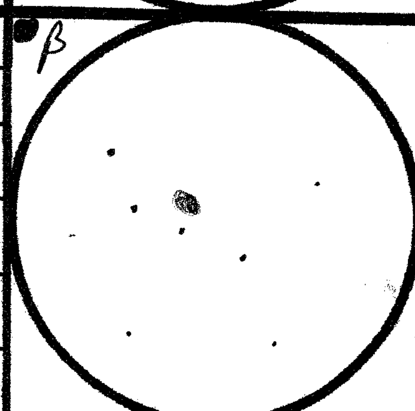
SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

SEEN, BUT ONLY CORE

NGC	3499
CONST	
DATE	"
TIME	415

β



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

β UMa nearly in field

NOT TOO DIM, JUST ELLIP

HAD TO STAR-HOP HERE ON! H3

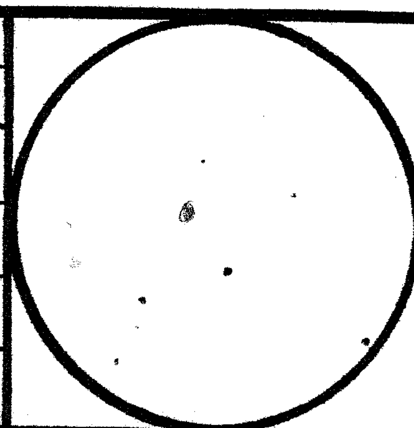
HERSCHEL OBSERVATIONS

NGC	SITE	SEEING	TRANS
3577	ACT	II	~~III~~ (2)

CONST	INSTR	EYEPIECE	POWER
	22VC	10	240

DATE 6/14/19

TIME 420



COMMENTS

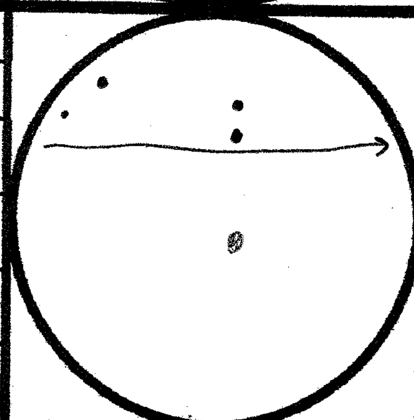
ANOTHER SMALL ELLIP.

NGC 3530

CONST

DATE "

TIME 4:29



SITE

INSTR

SEEING

EYEPIECE

TRANS

POWER

COMMENTS

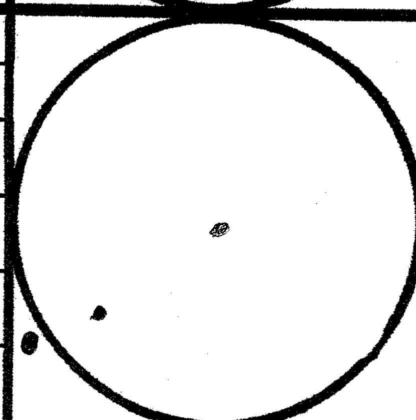
Sat 11:09 +57.2 = 12327 (NEW)
COSMOS 1257
I saw as oval, its more like
2X1 No details

NGC 3543

CONST

DATE "

TIME 4:40



SITE

INSTR

SEEING

EYEPIECE

TRANS

POWER

COMMENTS

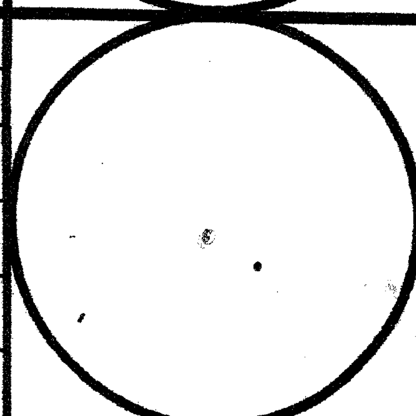
ELONG, NO DETAILS

NGC 3594

CONST

DATE "

TIME 4:50



SITE

INSTR

SEEING

EYEPIECE

TRANS

POWER

COMMENTS

SMALL, OVAL, DIM

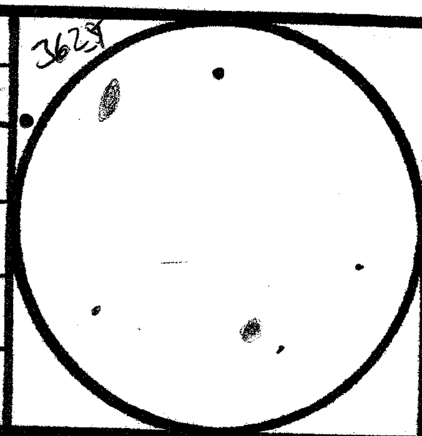
STAR HOP

HERSCHEL OBSERVATIONS

#3

NGC	3625
CONST	
DATE	6/14/19
TIME	500

3628



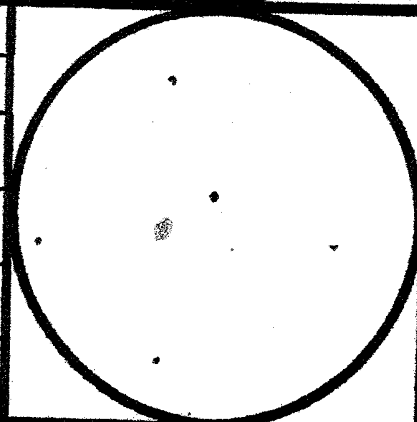
SITE	ACT	SEEING	II	TRANS	III (D)
INSTR	22UC	EYEPIECE	10	POWER	240

COMMENTS

3628 ELONG, NO "WINGS" SEEN

3619 OVAL, NO DETAIL

NGC	3657
CONST	
DATE	"
TIME	505

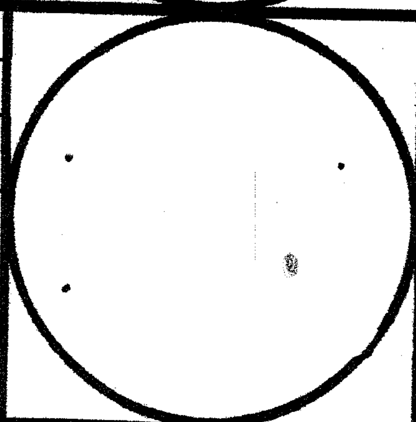


SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

OVAL ELLIP

NGC	3671
CONST	
DATE	"
TIME	510

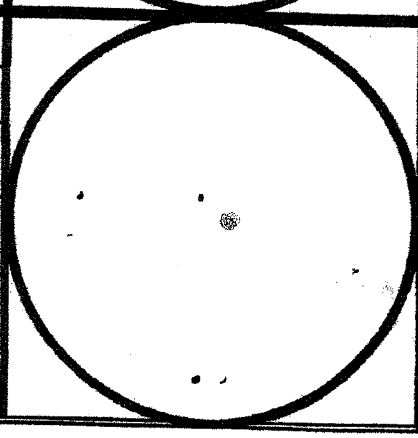


SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

AV=3 TINY DIM SPOT

NGC	3674
CONST	
DATE	"
TIME	520



SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

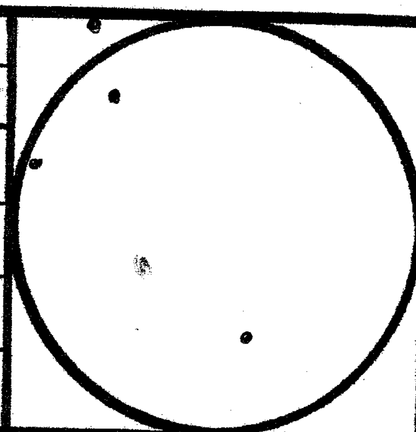
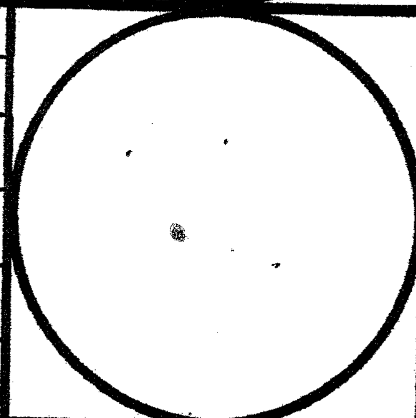
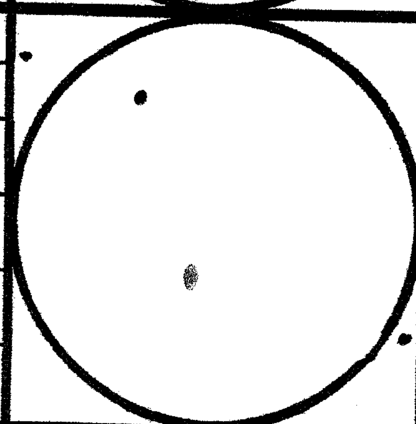
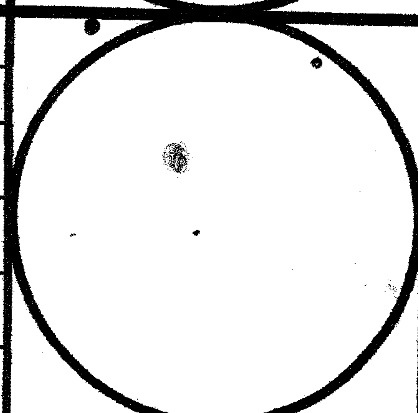
CORE ONLY

DIDN'T SEE AS LENTICULAR

STAR HOP

HERSCHEL OBSERVATIONS

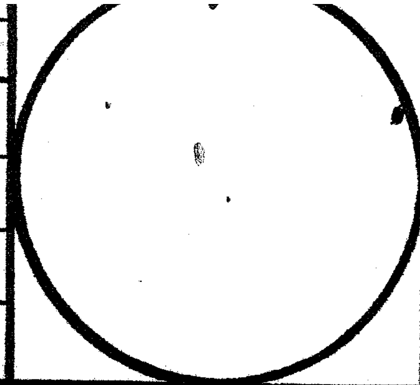
H3

NGC 4149 CONST DATE 6/14/19 TIME 530		SITE ACT INSTR 22UC SEEING II TRANS ~~III~~ (D) EYEPIECE 10 POWER 240 COMMENTS JUST CORE, NOT ELONGATED STUBS
NGC 4141 CONST DATE " TIME 540		SITE INSTR SEEING TRANS EYEPIECE POWER COMMENTS SMALL DIM GLOW "IN" A Δ OF FS
NGC 4161 CONST DATE " TIME 550		SITE INSTR SEEING TRANS EYEPIECE POWER COMMENTS BRIGHTER SL. OVAL GLOW WITHIN NICE FS GROUP
NGC 4172 CONST DATE " TIME 600		SITE INSTR SEEING TRANS EYEPIECE POWER COMMENTS MAINLY OVAL GLOW, SOME DETAIL OR BAR

H3

ACT	II	III (D)
INSTR 22UC	EYEPIECE 10	POWER 240

CONST



COMMENTS

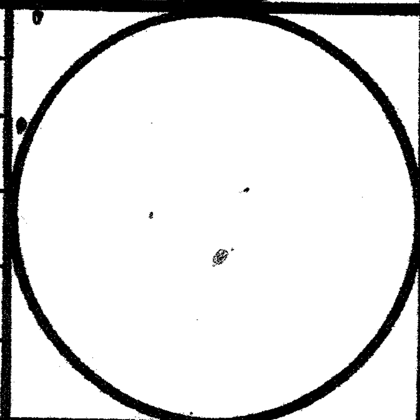
SMALL OVAL GLOW.

DATE 6/14/19

TIME 6:05

NGC 4195

CONST



SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

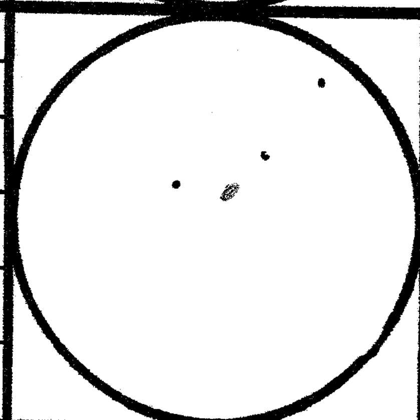
VS, VF GLOW

DATE "

TIME 610

NGC 4199

CONST



SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

AV=3 POINT OF FS Δ

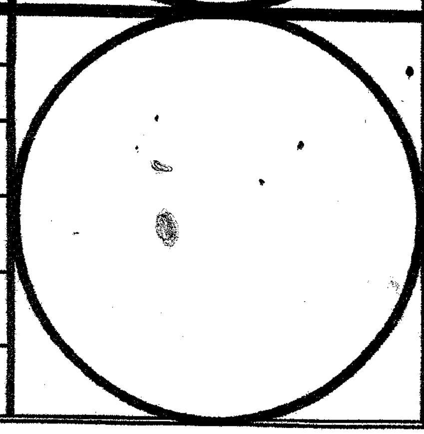
TINY GLOW

DATE "

TIME 615

NGC 4284/90

CONST



SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

4290 PREV. SEEN

ONLY BAR (NOT BARBELL)

4284 ANOTHER POINT ON Δ OF

FS, SMALL 2X1 GLOW

DATE "

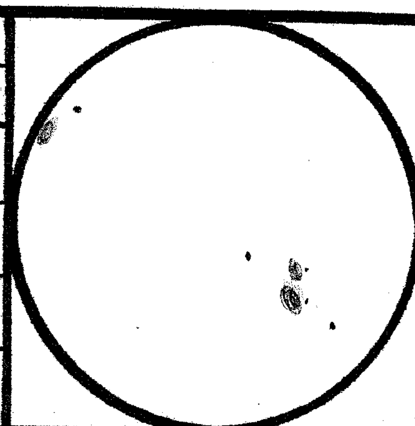
TIME 620

HERSCHEL OBSERVATIONS

STAR HOP

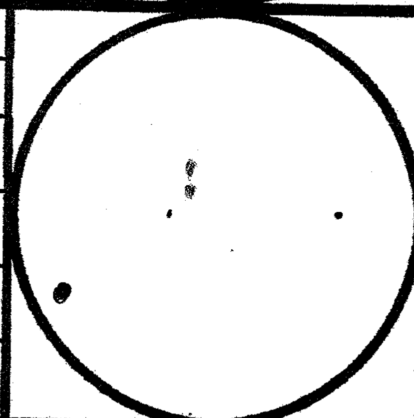
H3

NGC 4335
CONST +4362+
4364
DATE 6/14/19
TIME 625



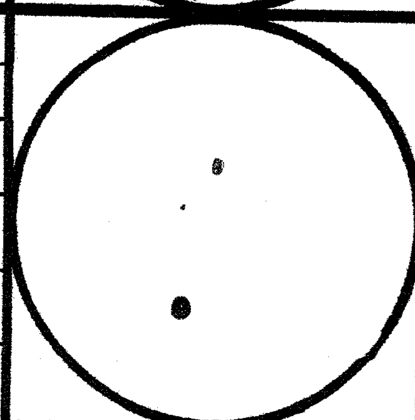
SITE ACT
SEEING II
TRANS ~~III~~ (2)
INSTR 22UC
EYEPIECE 10
POWER 240
COMMENTS
← 4335 OVAL CORE
4362/4
← not split(?) BECAUSE OTHER FAINT *s "MERGE" IT ALL TOGETHER

NGC 4547/9
CONST
DATE 11
TIME 630



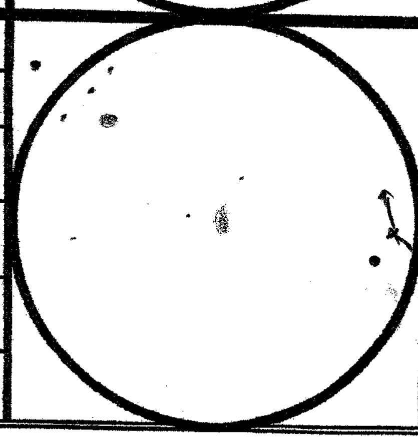
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
BOTH BRIGHT ELLIPS

NGC 4695
CONST
DATE 11
TIME 640



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
ONLY CORE, NO ARMS SEEN

NGC 4675/86
CONST
4686
DATE 11
TIME 645



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
4675 3X1 ELONG
4686 2X1 ELONG
POS OF 4695

HERSCHEL OBSERVATIONS

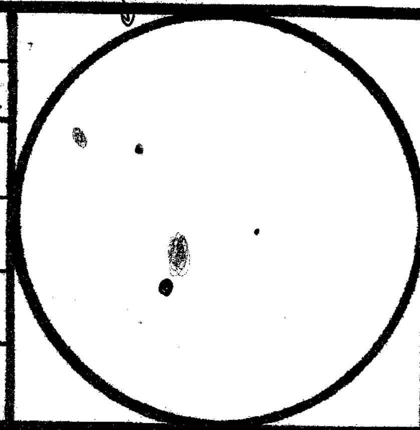
STAR HOP

H3

NGC 4669
CONST 4646

DATE 6/14/19
TIME 650

Mrk 220

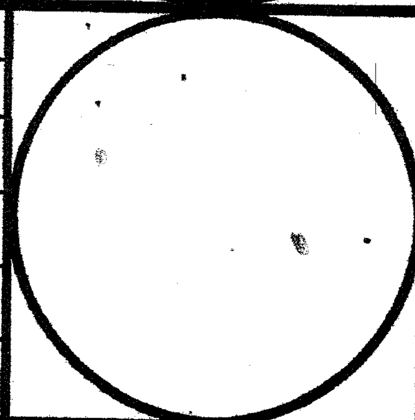


SITE ACT
SEEING II
TRANS II-(D)
INSTR 22UC
EYEPIECE 10
POWER 240

COMMENTS
← 4646 2X1 ELONG
← 4669 NICE BR, LG, OVAL, NO DETAIL
Mrk 220 seen (as a FS)
4669 NOT LISTED IN H3/4

NGC 4644
CONST

DATE 〃
TIME 655

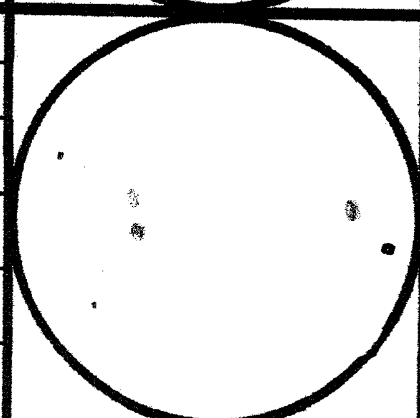


SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER

COMMENTS
← 4644 sm. oval glow
← 4646 (from ↑)

NGC
CONST

DATE 〃
TIME 700

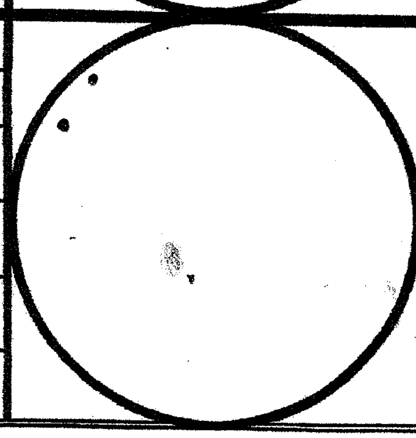


SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER

COMMENTS
4967 ALL OVAL, SMALL
NO DETAILS
← 4973 BUT LINE UP
← 4974 W/ FS IN COOL GROUP

NGC 4964
CONST

DATE 〃
TIME 705



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER

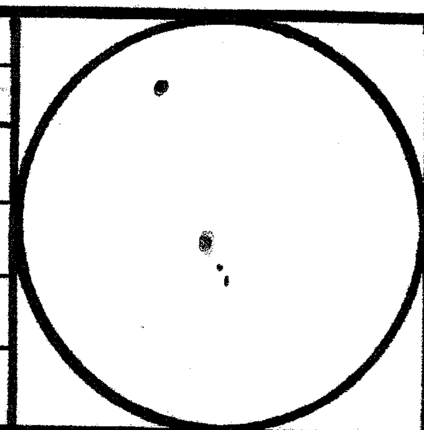
COMMENTS
2X1 ELONG EMPTY FIELD
AS SHOWN

HERSCHEL OBSERVATIONS

STAR HOP

H3

NGC	4977
CONST	
DATE	6/14/19
TIME	710

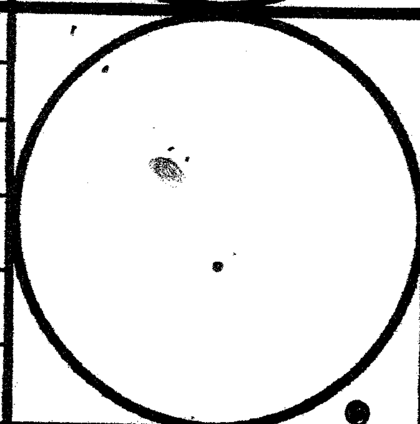


SITE	ACT	SEEING	II
		TRANS	~~II~~-(D)
INSTR	22UC	EYEPIECE	10
		POWER	240

COMMENTS

Another ellip no detail

NGC	5163
CONST	
DATE	
TIME	715



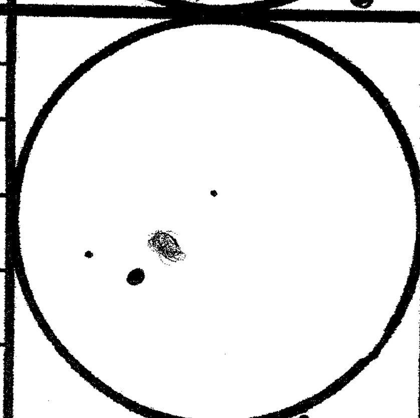
SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

Sl. oval - not too dim

no details

NGC	5201
CONST	
DATE	
TIME	720



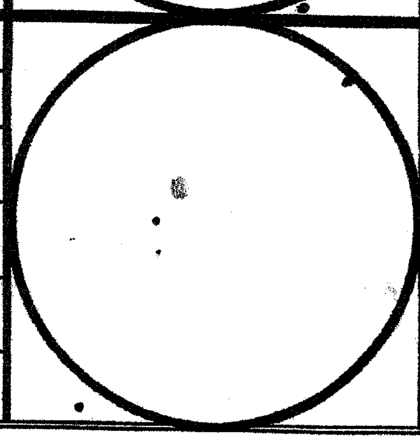
SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

Oval, not too small or dim

(Field not to scale)

NGC	5164
CONST	
DATE	
TIME	725



SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

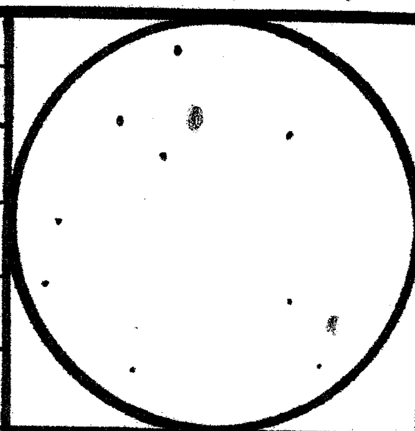
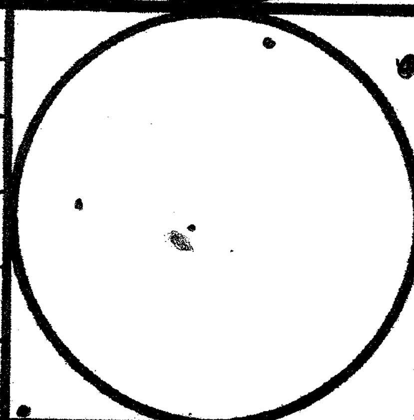
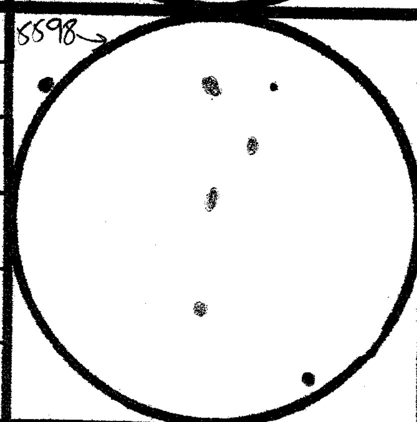
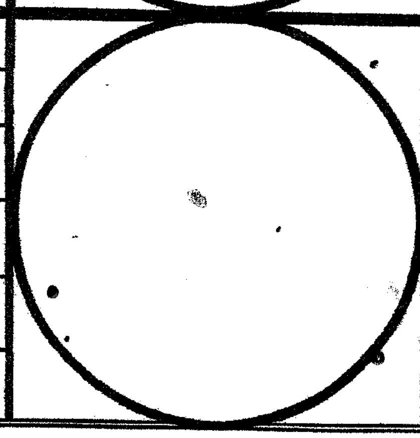
Only oval core - no arms seen

HERSCHEL OBSERVATIONS

STAR HOP

5443 (seen)

H3

NGC 5475 CONST DATE 6/14/19 TIME 730		SITE ACT · SEEING II- · TRANS II INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS 5443 Core + Stubby arms 5475 2x1 elong but no detail
NGC 5630 CONST DATE " TIME 740		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS Small 2x1 elong w/ FS on it
NGC 5603 + CONST 5601 + 5598 + U9216 DATE " TIME 750	5598 	SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS 5601 SMALL BUT NOT DIM 5603 OVAL, MED SIZE & BRITE 5598 OVAL, BRIGHTEST OF GROUP VERY COMPACT U9216 SMALL, DIM, AV=3
NGC 5608 CONST DATE " TIME 800		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS SMALL, DIM SPOT (AV=3) NO DETAIL, VERY EMPTY FIELD

838 ← 650 → maybe F (V2)

← 858 • L +2 ••

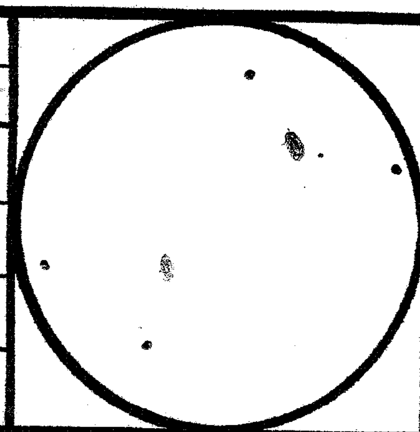
1or

STAR HOP

HERSCHEL OBSERVATIONS

H3 ↓

NGC	5696/7
CONST	
DATE	6/14/19
TIME	810



SITE	SEEING	TRANS
ACT	II-	II
INSTR	**EYEPIECE**	**POWER**
22 UC	10	240

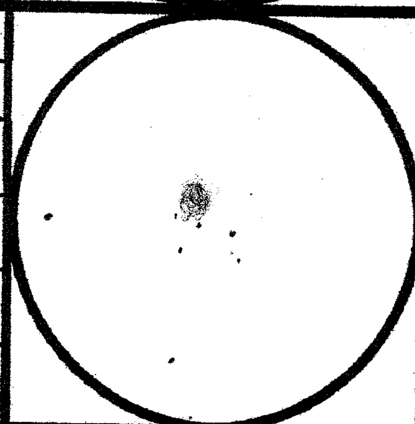
COMMENTS

← 2x1 w/ one side > other

great FS, compact n/c

← 5696 sl. oval, a little dim

NGC	5739
CONST	
DATE	"
TIME	820



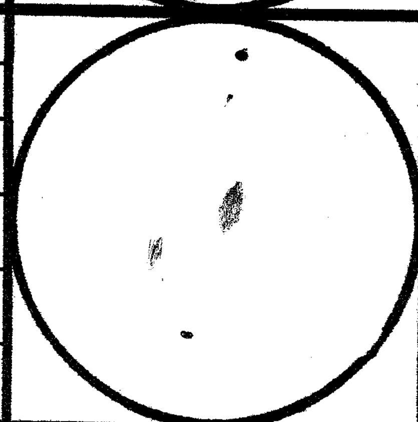
SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

Great FS, sl. oval, brite,

not small, no "pear" shape

NGC	5730/1
CONST	
DATE	"
TIME	830



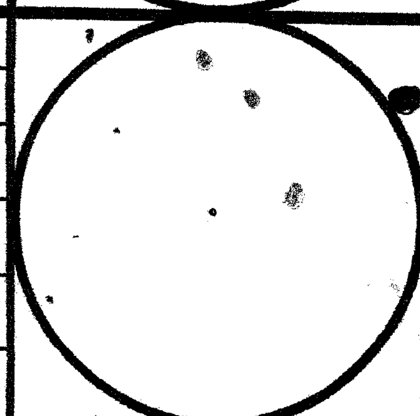
SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

← 5731 med brite bar or lenticular

← 5730 dimmer smaller 2X1 elong

NGC	5804
CONST	5797
	+ 5794
DATE	"
TIME	845



5794 → ← 5797

SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

← 5804 ROUND GLOW

5797 BRIGHTEST OF 3

5794 AVG.

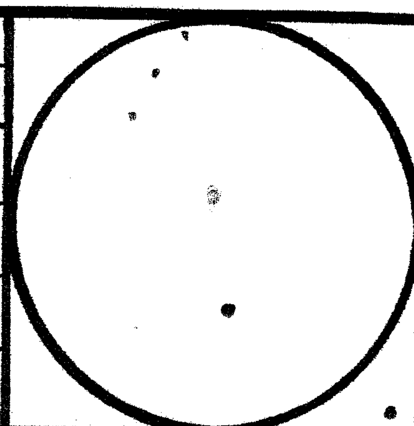
5794 NOT H3

STAR HOP

HERSCHEL OBSERVATIONS

9:18UT
Capella!

NGC 6089
CONST
DATE 6/14/19
TIME 850

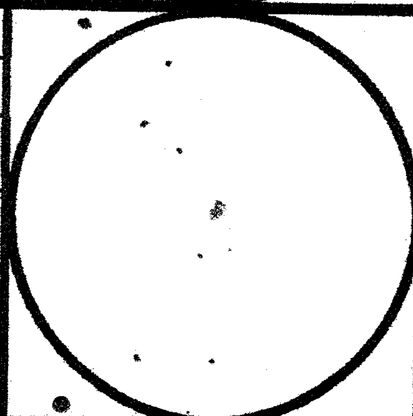


SITE ACT | SEEING II- | TRANS ~~III~~
INSTR 22 UC | EYEPIECE 10 | POWER 240

COMMENTS
NO DETAIL, S&F.

H3

NGC 6103
CONST
DATE "
TIME 900

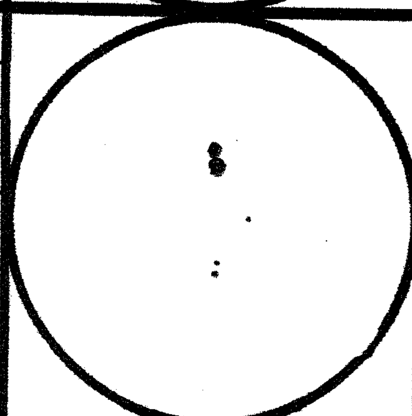


SITE ↓ | SEEING | TRANS
INSTR ↓ | EYEPIECE ↓ | POWER

COMMENTS
ROUND SMALL, NOT TOO DIM

H3

NGC σ Her
CONST
DATE "
TIME 905

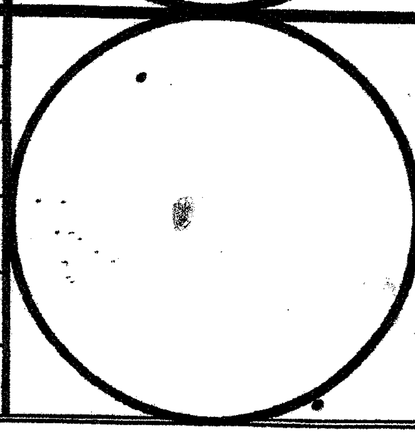


SITE ↓ | SEEING | TRANS
INSTR ↓ | EYEPIECE | POWER ↓

COMMENTS
4's (~ΔM=1)

← ANOTHER PAIR

NGC 6104
CONST
DATE "
TIME 910



SITE ↓ | SEEING | TRANS
INSTR ↓ | EYEPIECE ↓ | POWER

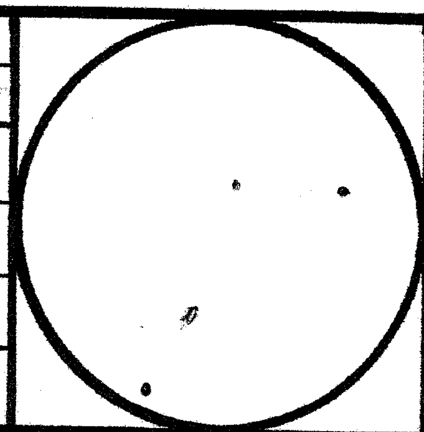
COMMENTS
ROUND COMPACT NVC

NO DETAIL

H3

HERSCHEL OBSERVATIONS

NGC 5741/2
CONST
DATE 6/27/19
TIME 610

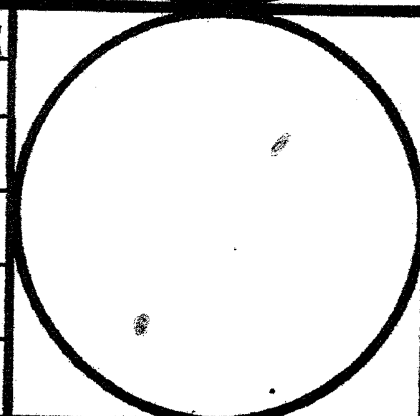


SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
← 5742

← 5741

NGC 5749/54
CONST
DATE 11
TIME 615

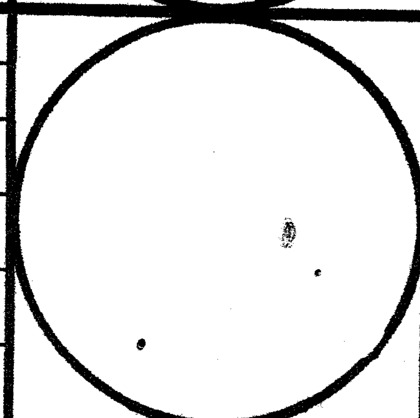


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
← 5749

← 5754

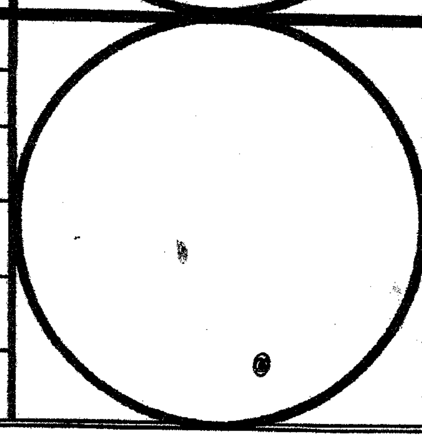
NGC 5757
CONST
DATE 11
TIME 620



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

NGC 5761
CONST
DATE 11
TIME 630

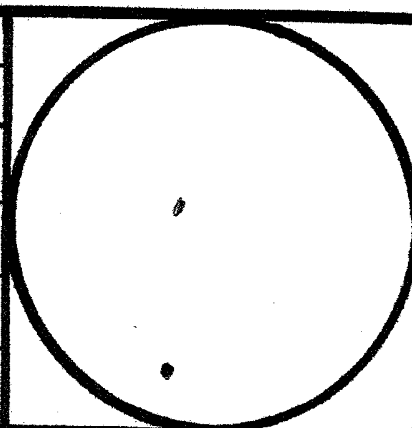


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

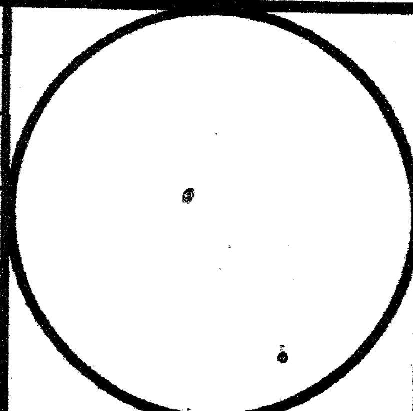
COMMENTS
No B

HERSCHEL OBSERVATIONS

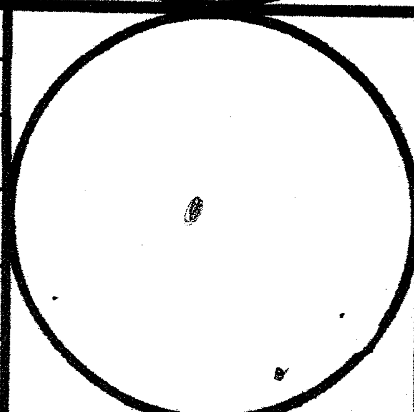
NGC 5187	SITE ACT	SEEING II	TRANS II
CONST	INSTR 22UC	EYEPIECE 10	POWER 240
DATE 6/27/19	COMMENTS		
TIME 640			



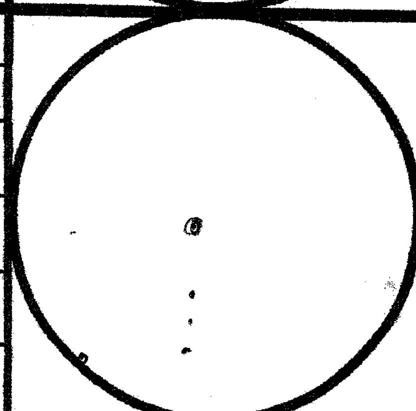
NGC 5732	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "	COMMENTS		
TIME 650			



NGC 5735	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "	COMMENTS		
TIME 700			

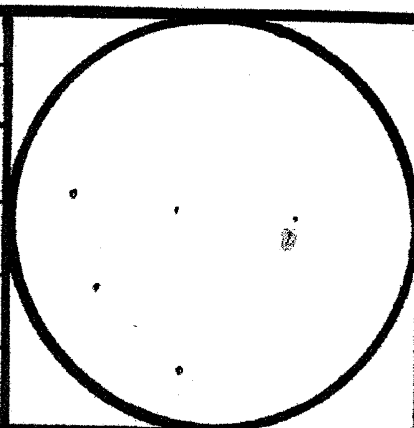


NGC 5771	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "	COMMENTS		
TIME 710			

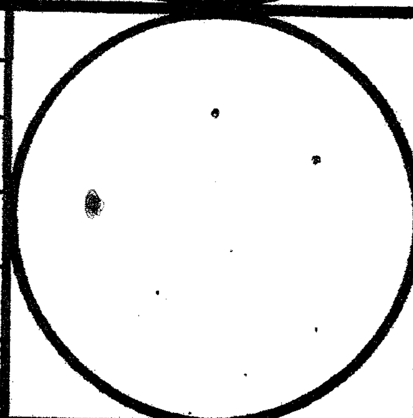


HERSCHEL OBSERVATIONS

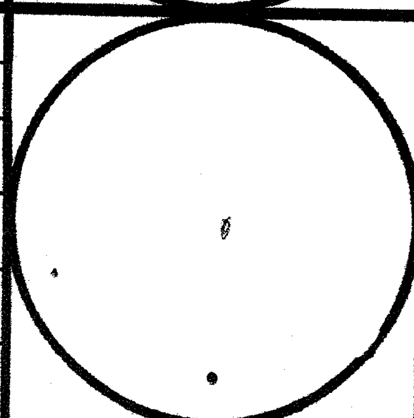
NGC 5773	SITE ACT	SEEING II / TRANS II
CONST	INSTR 22VC	EYEPIECE 10 / POWER 240
DATE 11	COMMENTS	
TIME 720		



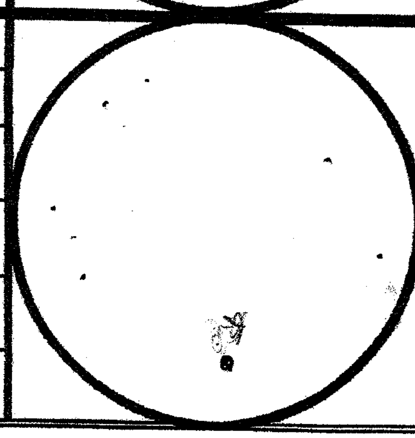
NGC 5784	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS REPEAT	
TIME 730		



NGC 5787	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS REPEAT	
TIME 738		

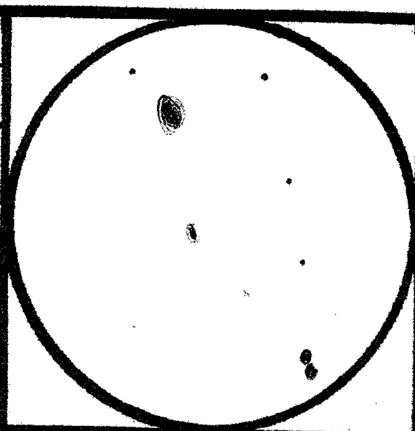


NGC 5798	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS	
TIME 740		



HERSCHEL OBSERVATIONS

NGC	5820/1
CONST	
DATE	6/27/19
TIME	745



SITE	ACT	SEEING II	TRANS II
INSTR	22UC	EYEPIECE 10	POWER 240

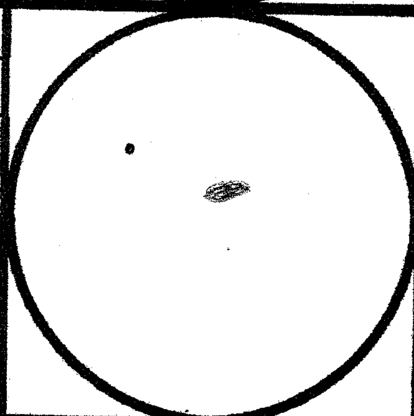
COMMENTS

↖5820 REPEAT

←5821 REPEAT

←5821B AV=3

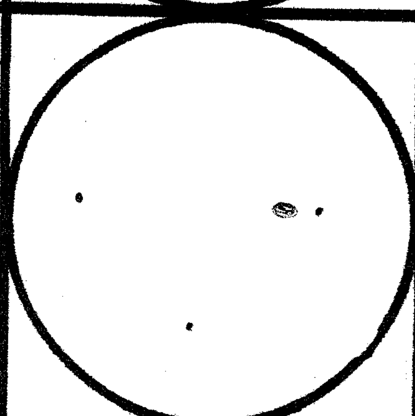
NGC	5894
CONST	
DATE	〃
TIME	750



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

NGC	5902
CONST	
DATE	〃
TIME	755

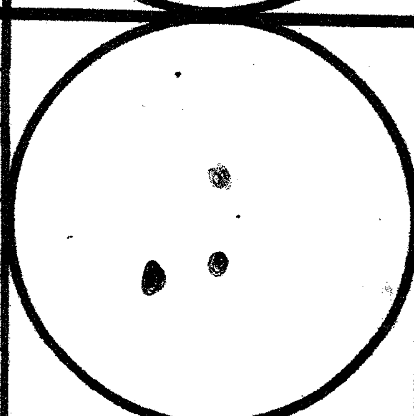


SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

REPEAT

NGC	5966
CONST	
DATE	〃
TIME	800

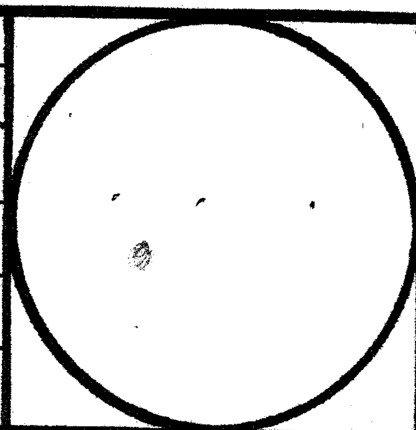


SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

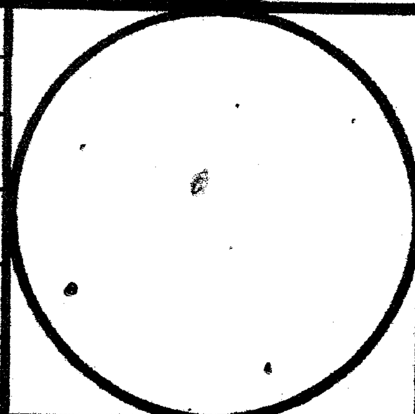
COMMENTS

HERSCHEL OBSERVATIONS

NGC 6186		SITE Act
CONST		SEEING II / TRANS II
		INSTR 22UC
		EYEPIECE 10 / POWER 240
DATE 6/27/19		COMMENTS
TIME 810		



NGC 6267		SITE ↓
CONST		SEEING ↓ / TRANS
		INSTR ↓
		EYEPIECE ↓ / POWER
DATE 6/27/19		COMMENTS
TIME 815		

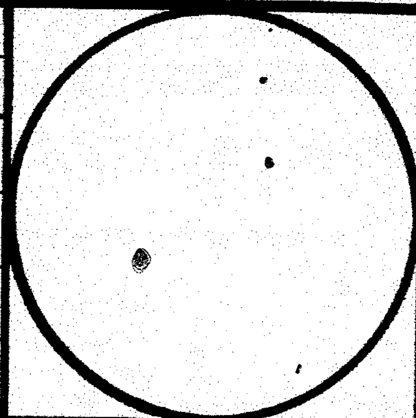
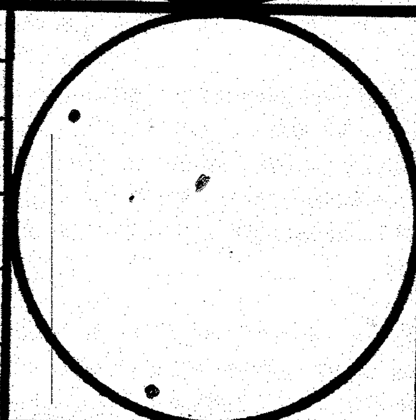
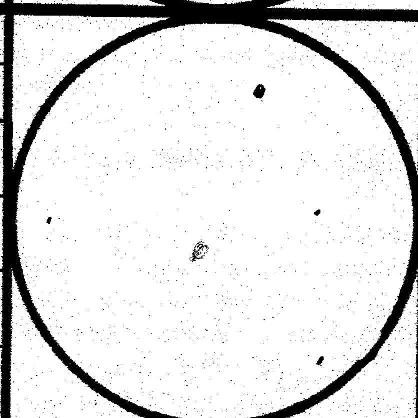
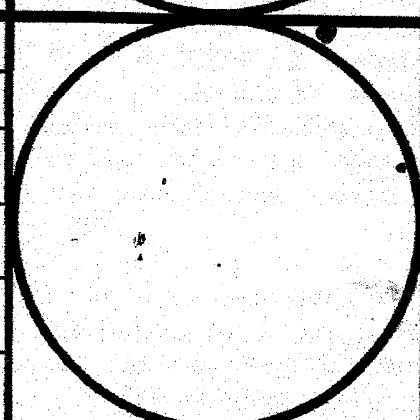


NGC		SITE
CONST		SEEING / TRANS
		INSTR
		EYEPIECE / POWER
DATE		COMMENTS
TIME		

NGC		SITE
CONST		SEEING / TRANS
		INSTR
		EYEPIECE / POWER
DATE		COMMENTS
TIME		

6/28 10:00 UT [redacted] 6/29/19 2110 UT • ¥ 10x only 6/29/19 19:00 UT

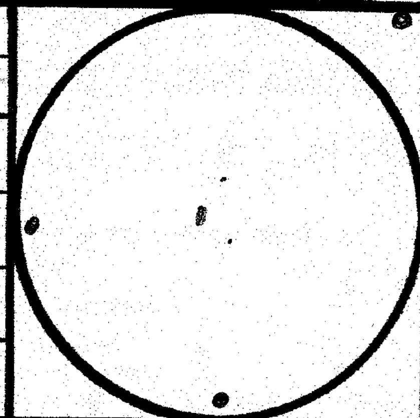
HERSCHEL OBSERVATIONS

NGC 3425 CONST DATE 6/29/19 TIME 2159		SITE ACT — SEEING II — TRANS II INSTR 22UC — EYEPIECE 10 — POWER 240 COMMENTS
NGC 3473 CONST DATE " TIME 305		SITE ↓ — SEEING ↓ — TRANS INSTR — EYEPIECE — POWER COMMENTS
NGC 3559 CONST DATE " TIME 310		SITE ↓ — SEEING ↓ — TRANS INSTR — EYEPIECE — POWER COMMENTS
NGC 3679 CONST DATE " TIME 315		SITE ↓ — SEEING ↓ — TRANS INSTR — EYEPIECE — POWER COMMENTS T&F

HERSCHEL OBSERVATIONS

NGC 3914
CONST

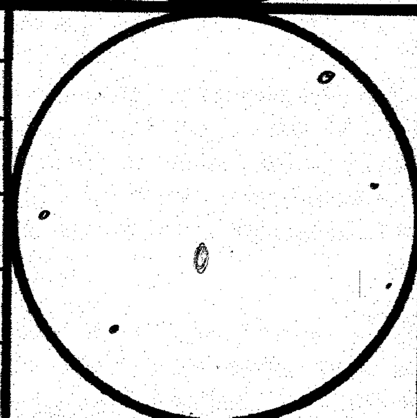
DATE 6/29/19
TIME 320



SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 240 | POWER 10
COMMENTS

NGC 4077
CONST

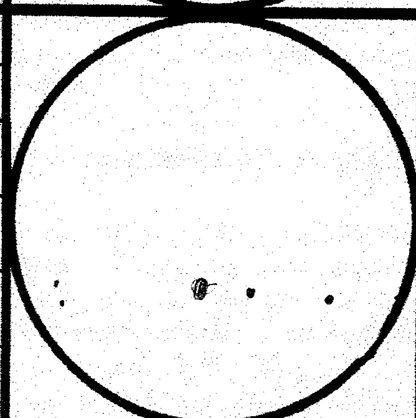
DATE "
TIME 325



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
Av=2

NGC 4067
CONST

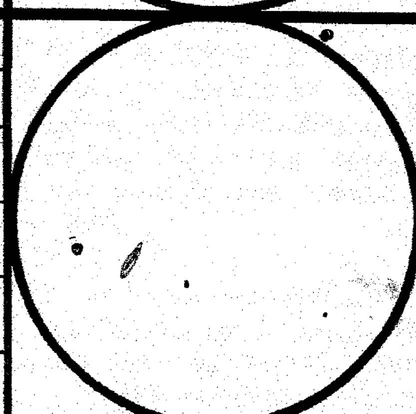
DATE "
TIME 330



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4129
CONST

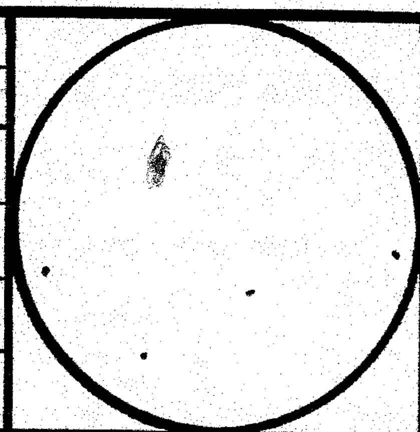
DATE "
TIME 340



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

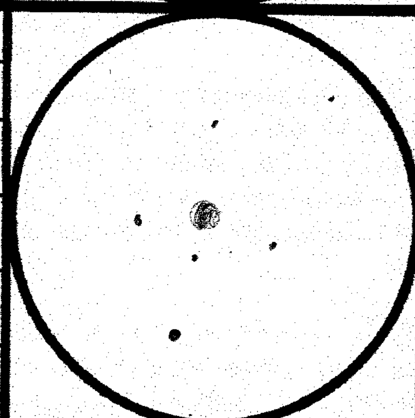
HERSCHEL OBSERVATIONS

NGC	4180
CONST	
DATE	6/29/19
TIME	345



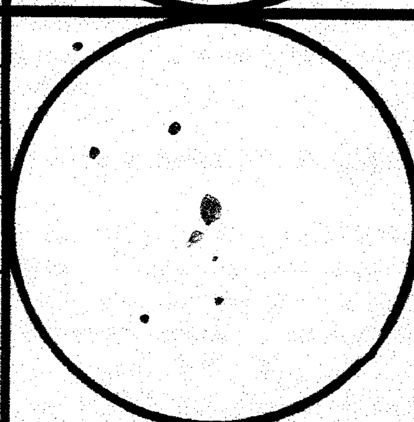
SITE	ACT	SEEING II	TRANS II
INSTR	22WC	EYEPIECE 10	POWER 240
COMMENTS			

NGC	4246
CONST	
DATE	"
TIME	350



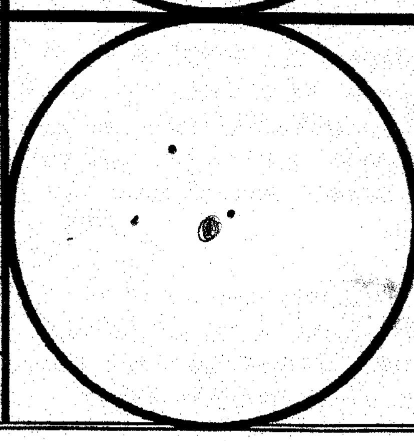
SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS			

NGC	4296/7
CONST	
DATE	"
TIME	355



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS			

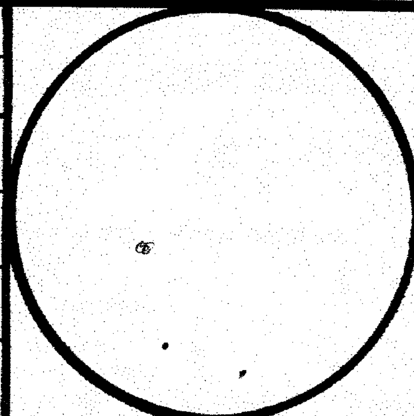
NGC	4326
CONST	
DATE	"
TIME	400



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER
COMMENTS			

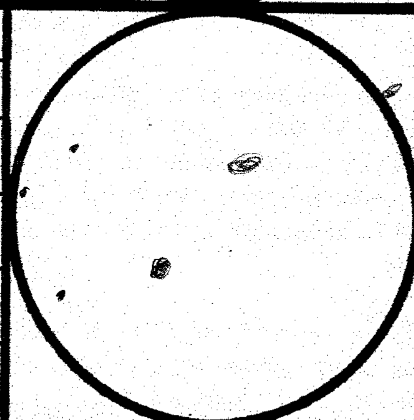
HERSCHEL OBSERVATIONS

NGC 4333
CONST
DATE 6/29/19
TIME 410



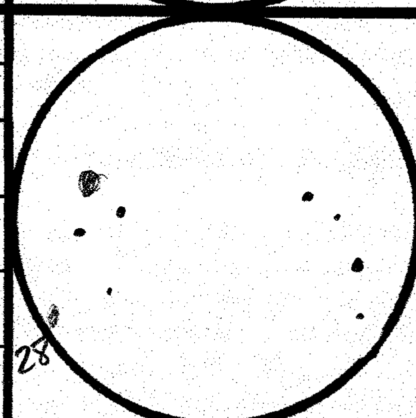
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

NGC 4341/2
CONST
DATE "
TIME 415



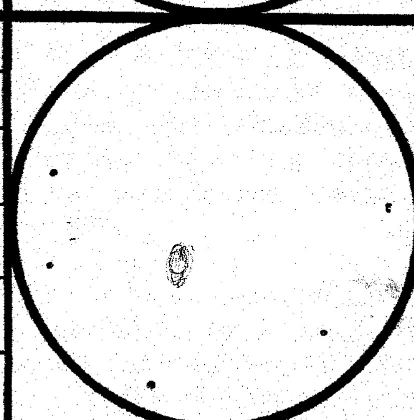
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

NGC 4626/8
CONST
DATE "
TIME 420



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

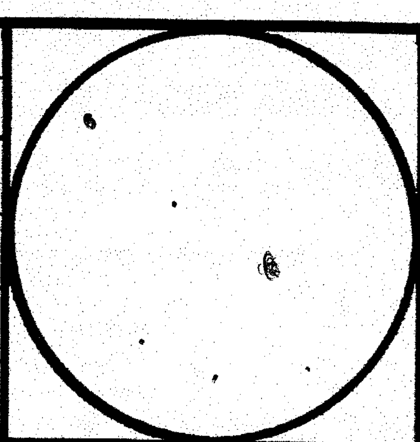
NGC 4682
CONST
DATE "
TIME 430



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

HERSCHEL OBSERVATIONS

NGC	CONST	DATE	TIME
4970		6/29/19	430

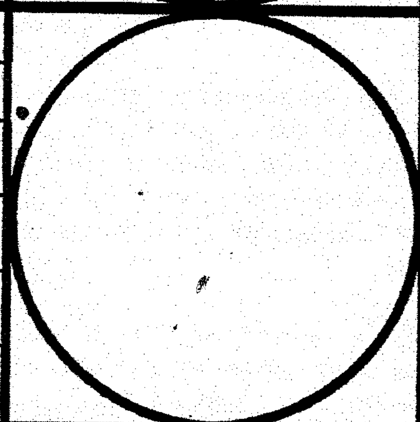


SITE	SEEING	TRANS
ACT	II	II

INSTR	EYEPIECE	POWER
22UC	10	240

COMMENTS

NGC	CONST	DATE	TIME
4968		"	435



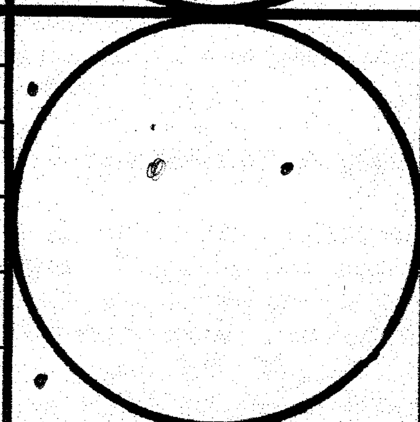
SITE	SEEING	TRANS

INSTR	EYEPIECE	POWER

COMMENTS

NOT H3

NGC	CONST	DATE	TIME
4993		"	440

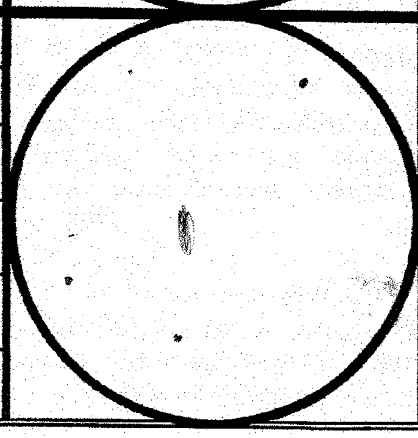


SITE	SEEING	TRANS

INSTR	EYEPIECE	POWER

COMMENTS

NGC	CONST	DATE	TIME
5047		"	445



SITE	SEEING	TRANS

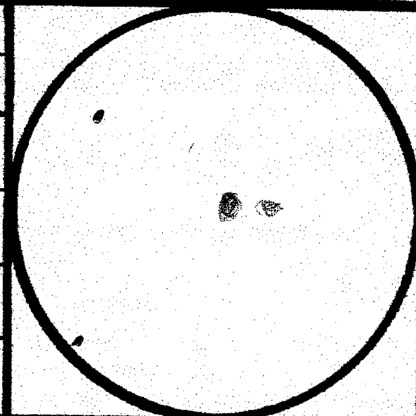
INSTR	EYEPIECE	POWER

COMMENTS

HERSCHEL OBSERVATIONS

NGC 5076/9
CONST

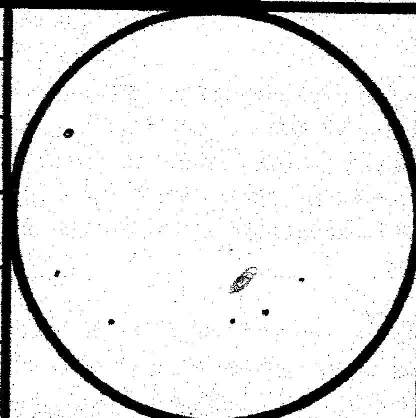
DATE 6/29/19
TIME 450



SITE ACT | SEEING II | TRANS II
INSTR 22vc | EYEPIECE 10 | POWER 240
COMMENTS

NGC 5094
CONST

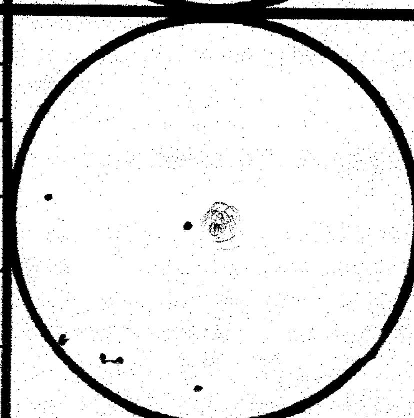
DATE "
TIME 500



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 5111
CONST

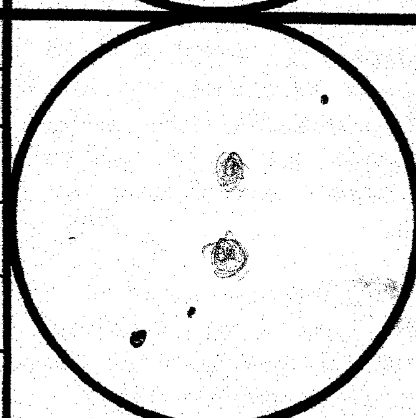
DATE "
TIME 505



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
NIAN

NGC 5183/4
CONST

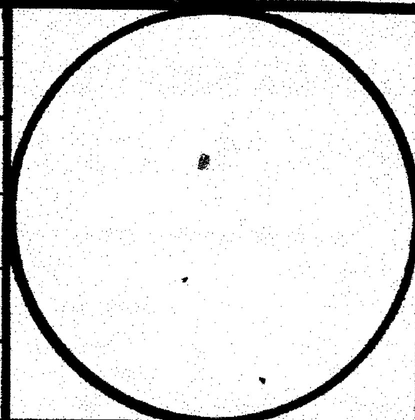
DATE "
TIME 510



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

HERSCHEL OBSERVATIONS

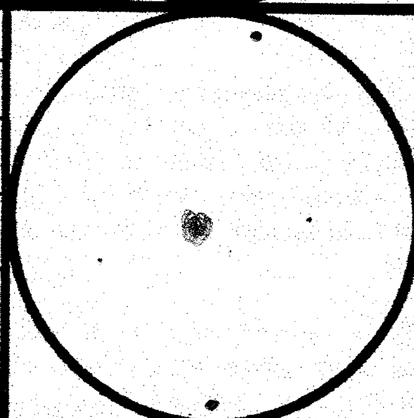
NGC	4200
CONST	
DATE	6/29/19
TIME	515



SITE	ACT	SEEING	II
		TRANS	4
INSTR	22VC	EYEPIECE	10
		POWER	240

COMMENTS

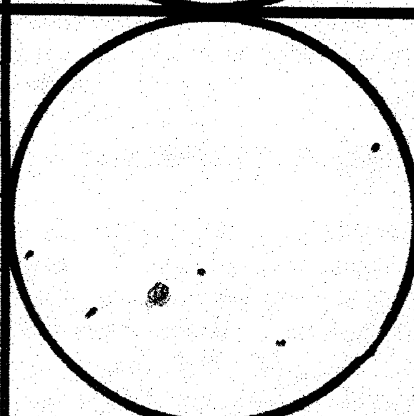
NGC	4262
CONST	
DATE	〃
TIME	5:20



SITE	↓	SEEING	↓
		TRANS	
INSTR	↓	EYEPIECE	↓
		POWER	

COMMENTS

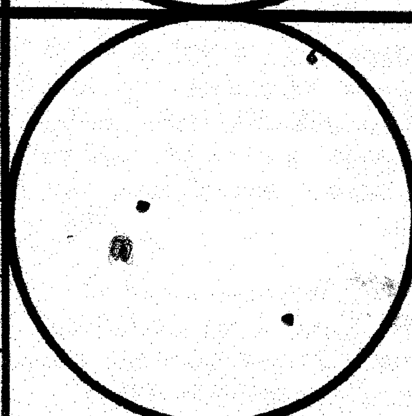
NGC	4352
CONST	
DATE	〃
TIME	5:25



SITE	↓	SEEING	↓
		TRANS	
INSTR	↓	EYEPIECE	↓
		POWER	

COMMENTS

NGC	4459
CONST	
DATE	〃
TIME	5:30



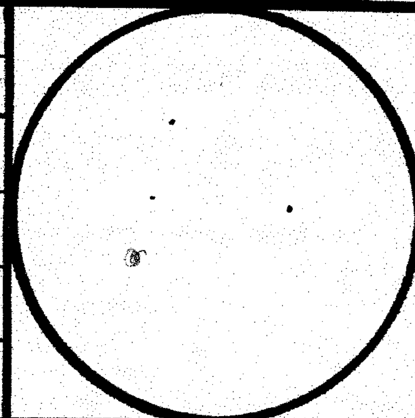
SITE	↓	SEEING	↓
		TRANS	
INSTR	↓	EYEPIECE	↓
		POWER	

COMMENTS

NOT H3

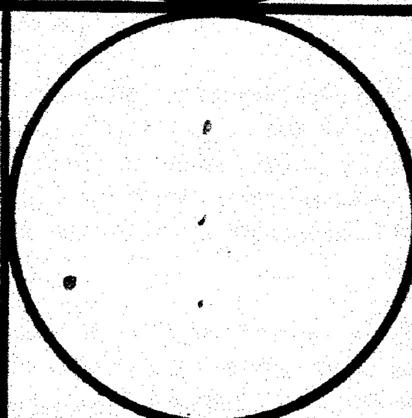
HERSCHEL OBSERVATIONS

NGC 5019
CONST
DATE 6/29/19
TIME 535



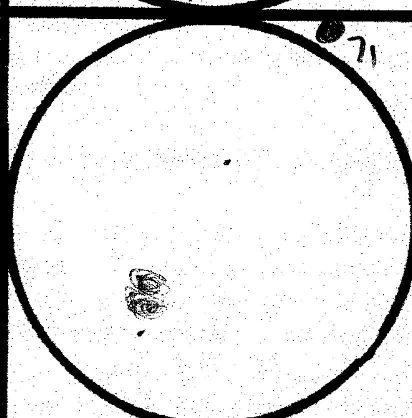
SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS
$A^v=2$

NGC 5718
CONST
DATE ''
TIME 540



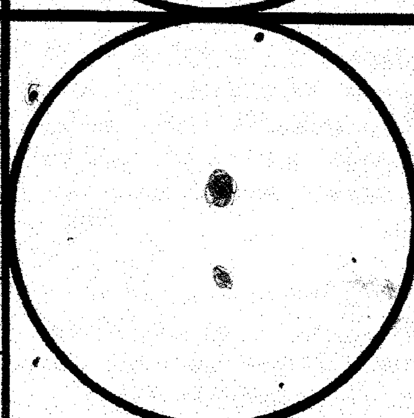
SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE ↓ | POWER
COMMENTS

NGC 5774/5
CONST
DATE ''
TIME 545



SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE ↓ | POWER
COMMENTS

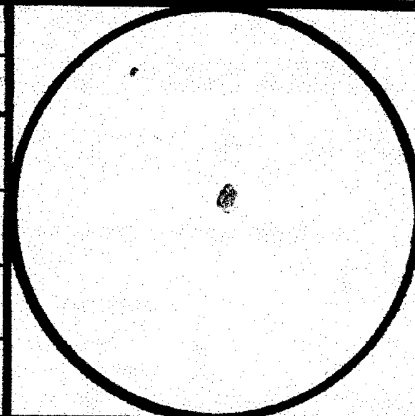
NGC 5208/9
CONST
DATE ''
TIME 550



SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE ↓ | POWER
COMMENTS

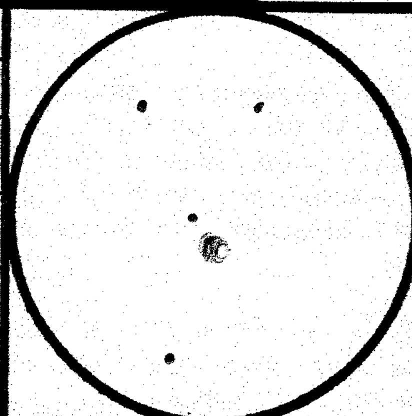
HERSCHEL OBSERVATIONS

NGC 5210
CONST
DATE 6/29/19
TIME 555



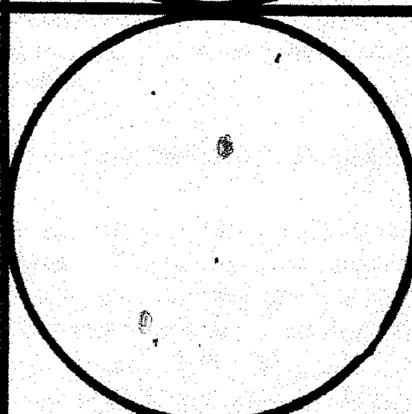
SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS

NGC 5374
CONST
DATE "
TIME 600



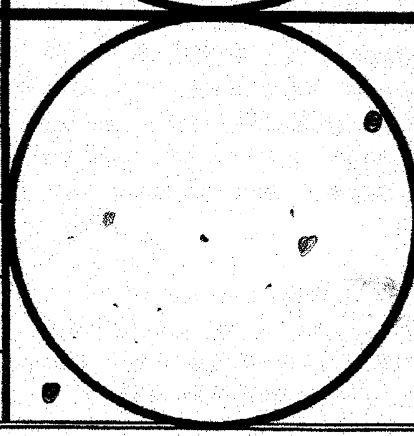
SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE ↓ | POWER
COMMENTS

NGC 5382/6
CONST
DATE "
TIME 605



SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE ↓ | POWER
COMMENTS

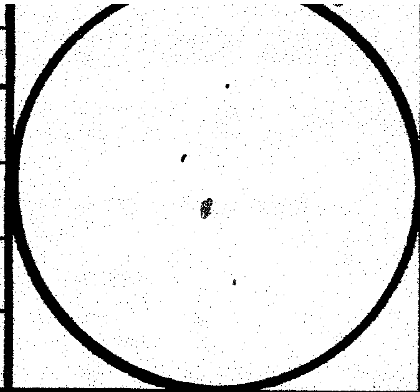
NGC 5416/09
CONST
DATE "
TIME 610



SITE | SEEING ↓ | TRANS
INSTR ↓ | EYEPIECE | POWER
COMMENTS
5416

5409 NOT H3

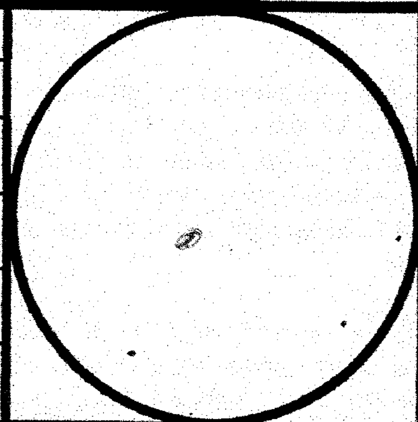
NGC	5746
CONST	
DATE	6/29/19
TIME	615



SITE	ACG	SEEING	II	TRANS	II
INSTR	22VC	EYEPIECE	240	POWER	10

COMMENTS

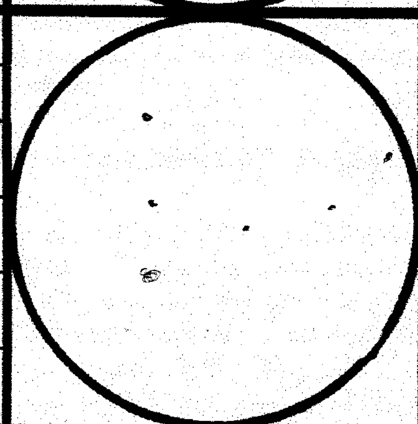
NGC	5463
CONST	
DATE	〃
TIME	620



SITE	↓	SEEING	↓	TRANS	
INSTR	↓	EYEPIECE	↓	POWER	

COMMENTS

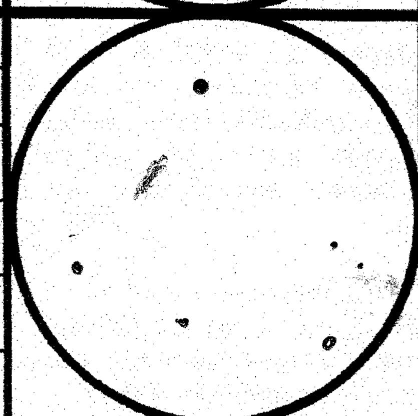
NGC	5532
CONST	
DATE	〃
TIME	625



SITE	↓	SEEING	↓	TRANS	
INSTR	↓	EYEPIECE	↓	POWER	

COMMENTS

NGC	5587
CONST	
DATE	〃
TIME	630

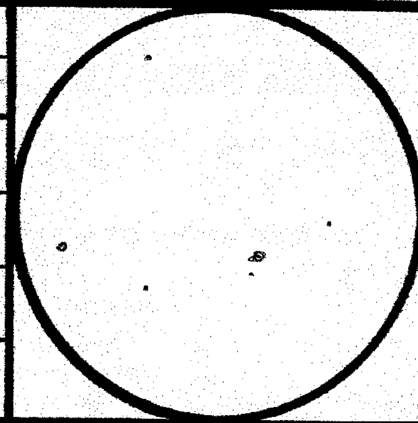


SITE	↓	SEEING	↓	TRANS	
INSTR	↓	EYEPIECE	↓	POWER	

COMMENTS

HERSCHEL OBSERVATIONS

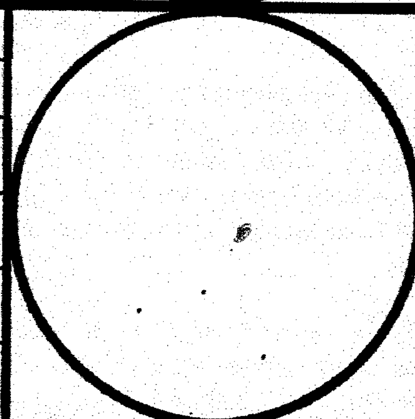
NGC	5649
CONST	
DATE	6/29/19
TIME	635



SITE	ACT	SEEING	II
		TRANS	II
INSTR	22VC	EYEPIECE	10
		POWER	240

COMMENTS

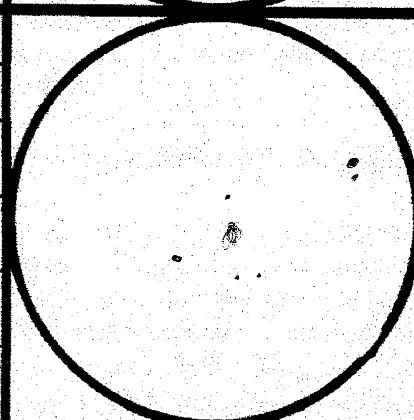
NGC	5702
CONST	
DATE	〃
TIME	640



SITE	↓	SEEING	↓
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

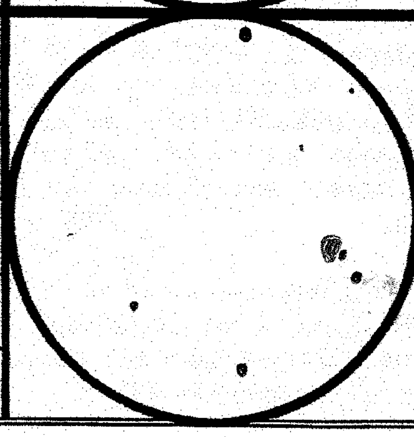
NGC	5710
CONST	
DATE	〃
TIME	645



SITE	↓	SEEING	↓
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

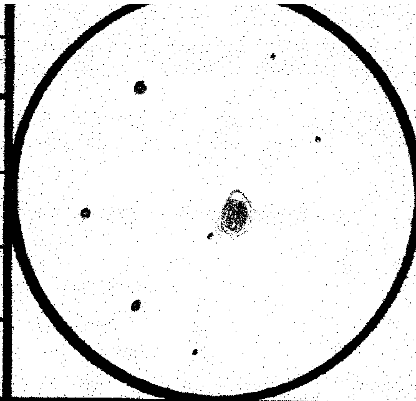
NGC	5642
CONST	
DATE	〃
TIME	650



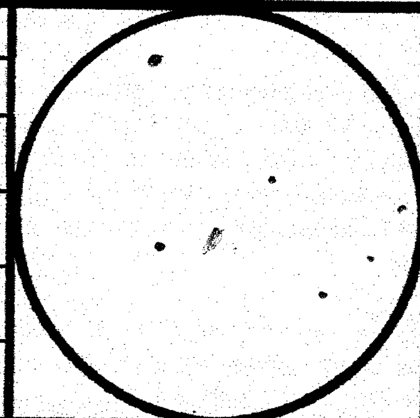
SITE	↓	SEEING	↓
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

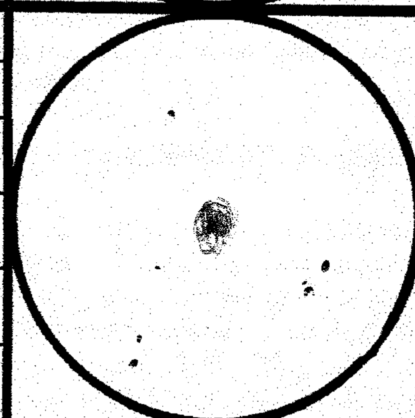
NGC	5653
CONST	
DATE	6/29/19
TIME	655
SITE	ACT
SEEING	II
TRANS	II
INSTR	22UC
EYEPIECE	10
POWER	240
COMMENTS	



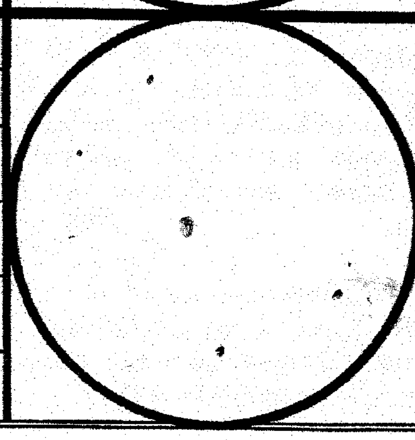
NGC	5760
CONST	
DATE	〃
TIME	700
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	



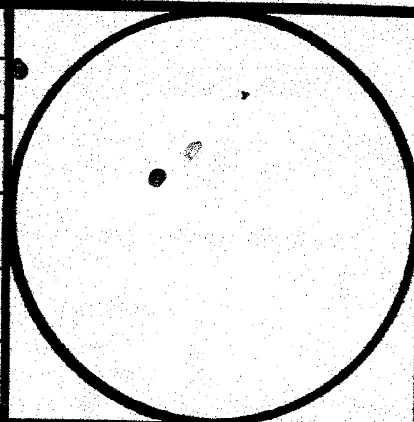
NGC	5678
CONST	
DATE	〃
TIME	705
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	

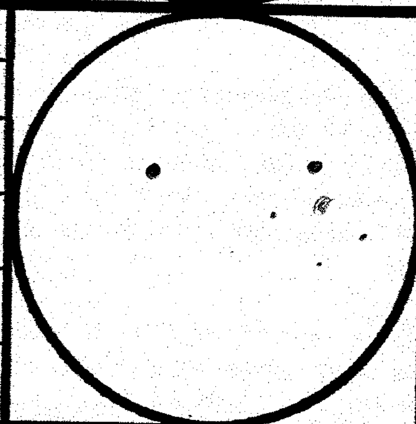


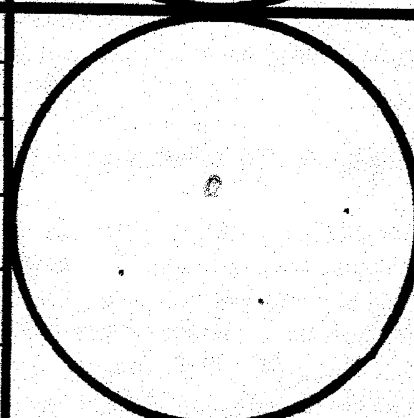
NGC	5684
CONST	
DATE	〃
TIME	710
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	

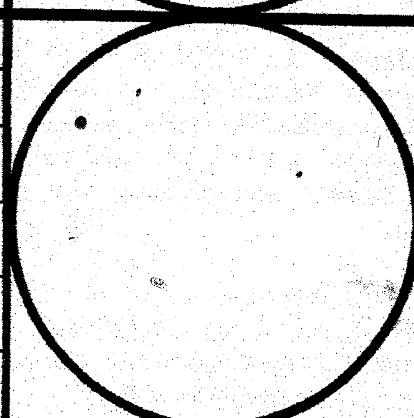


HERSCHEL OBSERVATIONS

NGC 5677		SITE ACT		SEEING II	TRANS II
CONST		INSTR 22UC		EYEPIECE 10	POWER 240
DATE 6/29/19		COMMENTS AV=3			
TIME 715					

NGC 5737		SITE ↓		SEEING ↓	TRANS
CONST		INSTR		EYEPIECE	POWER
DATE ″		COMMENTS			
TIME 720					

NGC 5696		SITE ↓		SEEING ↓	TRANS
CONST		INSTR		EYEPIECE	POWER
DATE ″		COMMENTS			
TIME 725					

NGC 5697		SITE ↓		SEEING ↓	TRANS
CONST		INSTR		EYEPIECE	POWER
DATE ″		COMMENTS			
TIME 730					

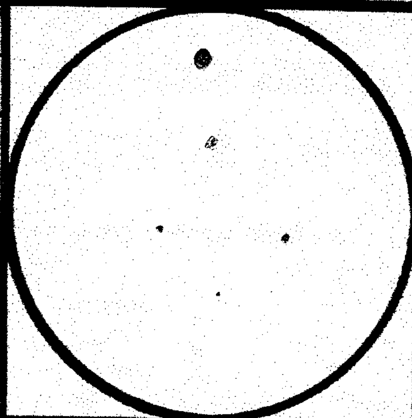
HERSCHEL OBSERVATIONS

NGC 5698

CONST

DATE 6/29/19

TIME 735



SITE	ACT	SEEING II	TRANS II
INSTR	22UC	EYEPIECE 10	POWER 240

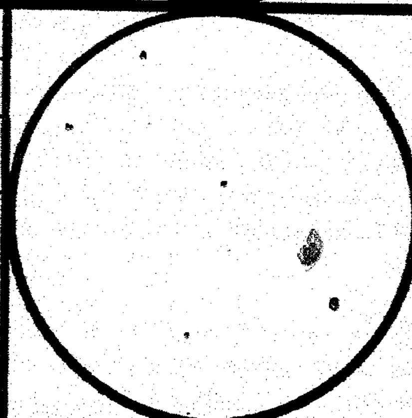
COMMENTS

NGC 5695

CONST

DATE 〃

TIME 740



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

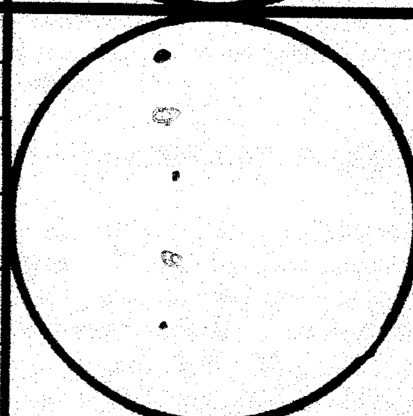
COMMENTS

NGC 5730/1

CONST

DATE 〃

TIME 745



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

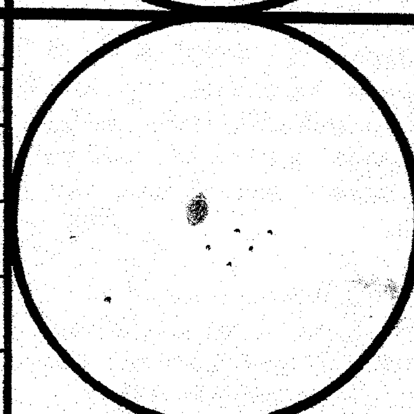
COMMENTS

NGC 5739

CONST

DATE 〃

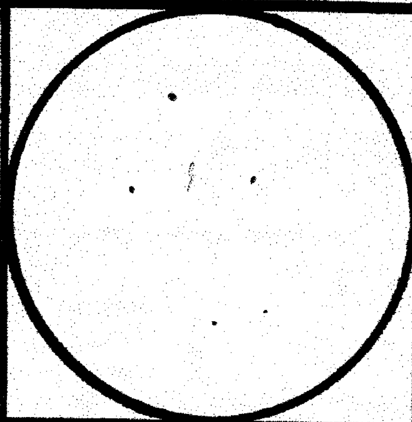
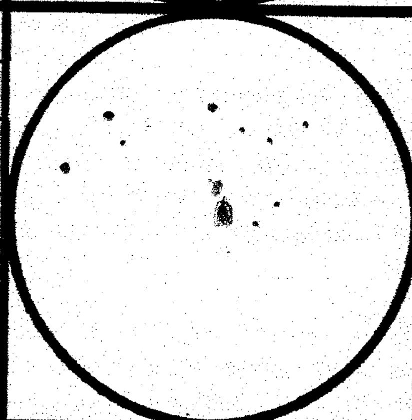
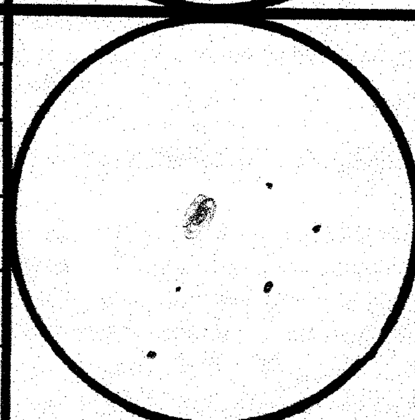
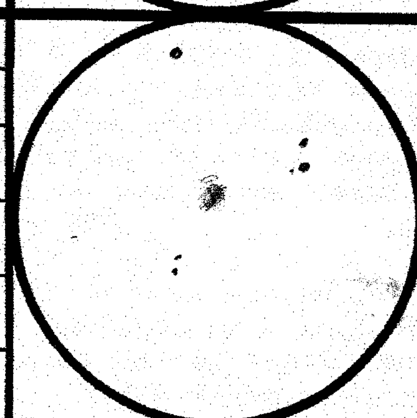
TIME 750



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

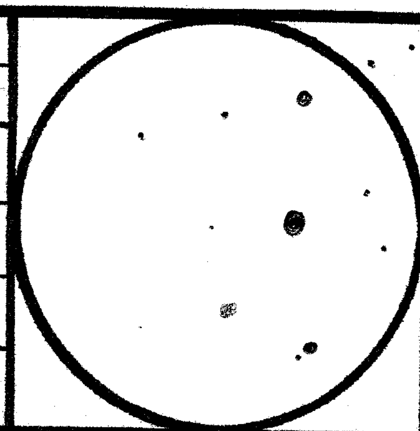
COMMENTS

HERSCHEL OBSERVATIONS

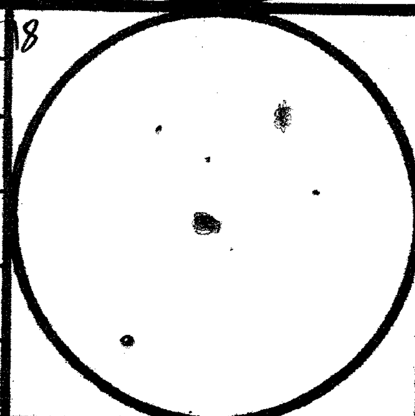
NGC 5957		SITE ACT — SEEING II — TRANS II
CONST		INSTR 22UC — EYEPIECE 10 — POWER 240
DATE 6/29/19		COMMENTS
TIME 755		
NGC 5954		SITE " — SEEING " — TRANS
CONST		INSTR — EYEPIECE — POWER
DATE "		COMMENTS
TIME 800		
NGC 5980		SITE " — SEEING " — TRANS
CONST		INSTR — EYEPIECE — POWER
DATE "		COMMENTS
TIME 805		
NGC 5996		SITE " — SEEING " — TRANS
CONST		INSTR — EYEPIECE — POWER
DATE "		COMMENTS
TIME 810		

HERSCHEL OBSERVATIONS

NGC 6012	SITE ACT	SEEING II · TRANS II
CONST	INSTR 22UC	EYEPIECE 10 · POWER 240
DATE 6/29/19	COMMENTS	
TIME 815		

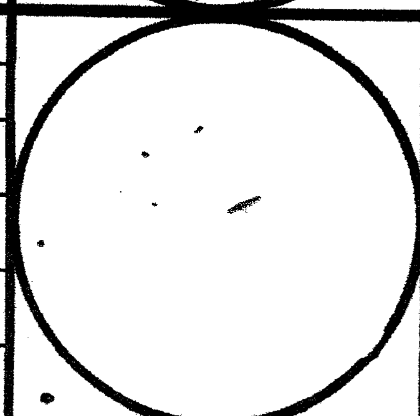


NGC 6021+6018	SITE	SEEING · TRANS
CONST	INSTR	EYEPIECE · POWER
DATE "	COMMENTS 6018	
TIME 820		

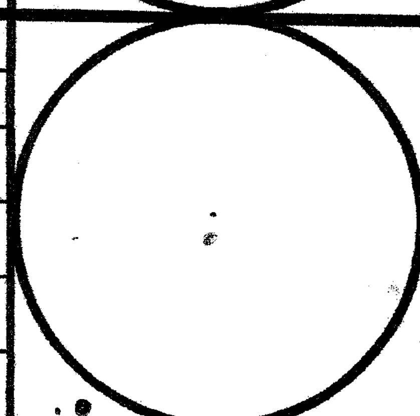


6018 NOT #3

NGC 6073	SITE	SEEING · TRANS
CONST	INSTR	EYEPIECE · POWER
DATE "	COMMENTS	
TIME 825		

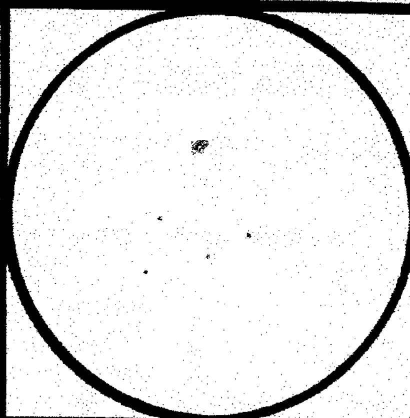


NGC 5881	SITE	SEEING · TRANS
CONST	INSTR	EYEPIECE · POWER
DATE "	COMMENTS	
TIME 830		



HERSCHEL OBSERVATIONS

NGC	6103
CONST	
DATE	6/29/19
TIME	835

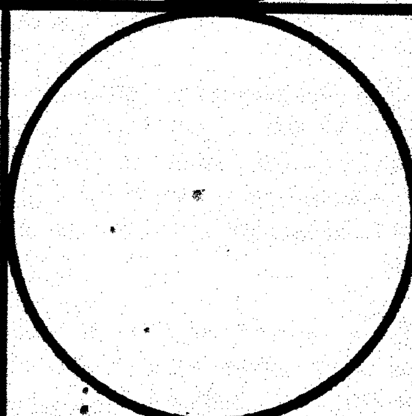


SITE	ACT	SEEING	II	TRANS	II
INSTR	22UC	EYEPIECE	10	POWER	240

COMMENTS

T80

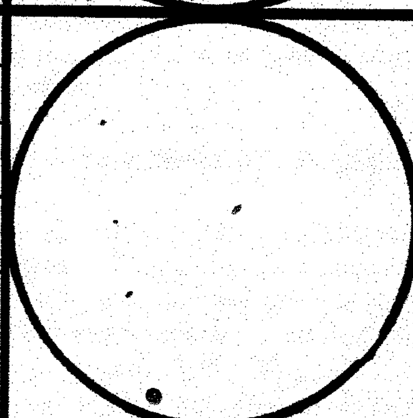
NGC	6089
CONST	
DATE	"
TIME	840



SITE		SEEING		TRANS	
INSTR	↓	EYEPIECE	↓	POWER	

COMMENTS

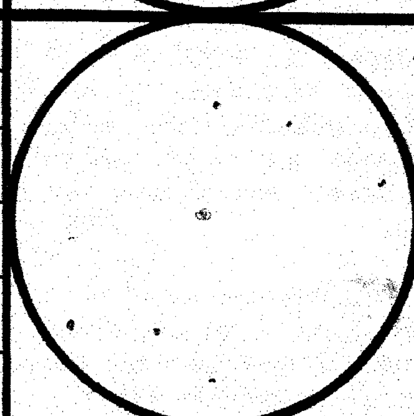
NGC	6104
CONST	
DATE	"
TIME	845



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

NGC	6129
CONST	
DATE	"
TIME	850



SITE		SEEING	↓	TRANS	
INSTR	↓	EYEPIECE		POWER	

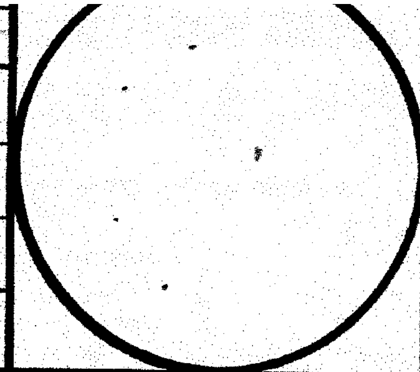
COMMENTS

T80

CONST

DATE 6/29/19

TIME 855



INSTR 22UC | EYEPIECE 10 | POWER 240

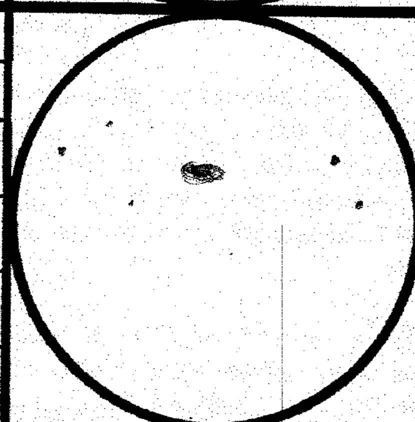
COMMENTS

NGC 6278

CONST

DATE 〃

TIME 900



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

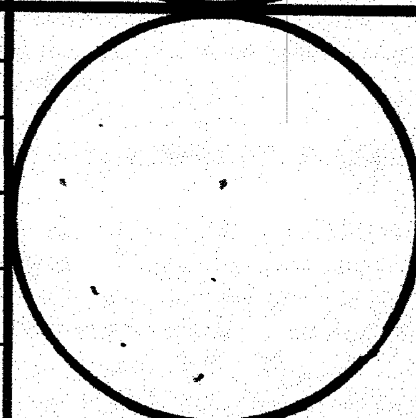
COMMENTS

NGC 5712

CONST

DATE 〃

TIME 905



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

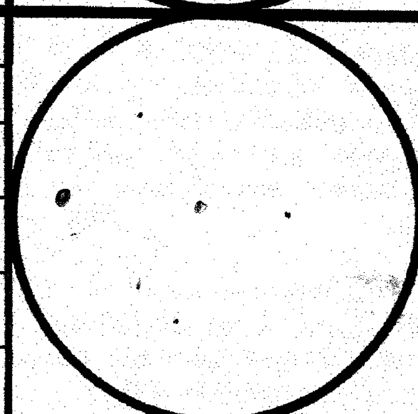
T&D Av=3

NGC 5819

CONST

DATE 〃

TIME 910



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

HERSCHEL OBSERVATIONS

NGC 5671
CONST
DATE 6/29/19
TIME 915

SITE ACT
SEEING II
TRANS II
INSTR 22UC
EYEPIECE 10
POWER 240
COMMENTS

NGC 5667
CONST
DATE 〃
TIME 920

SITE ✓
SEEING ✓
TRANS
INSTR ✓
EYEPIECE ✓
POWER
COMMENTS

NGC
CONST

SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS

220 US

939 unreor L=-1 gorgon 1x 97243 (Hubble?) 10:02

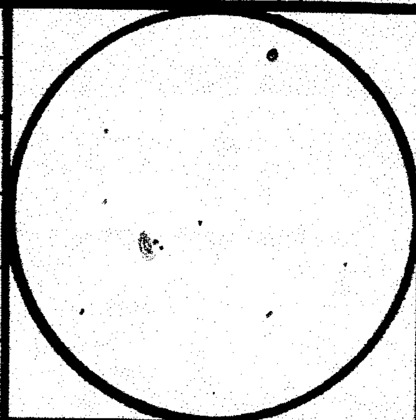
• Vega 1x L=2 1st step

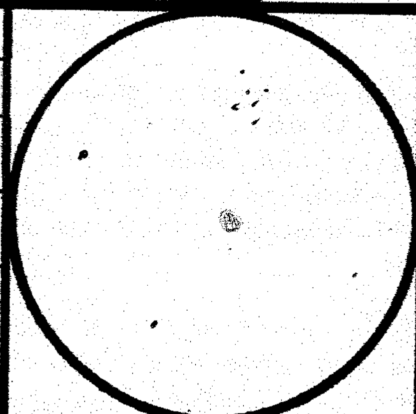
all 10x! •Deneb 5592

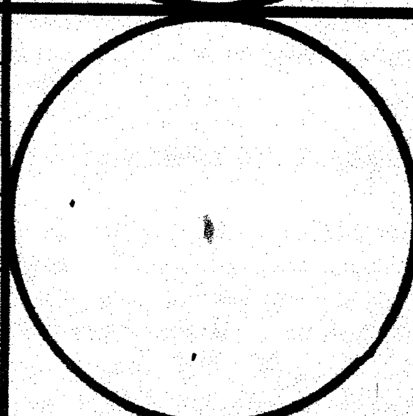
HERSCHEL OBSERVATIONS

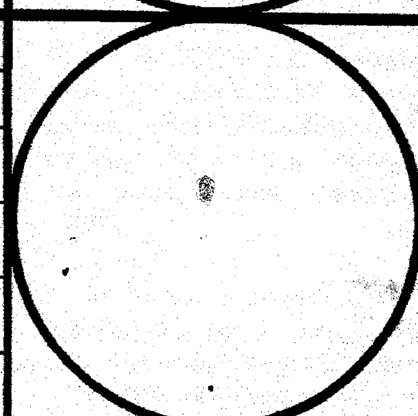
5016! +3F xvxx 1x +1L

1W 1NW

NGC 5592		SITE ACT
CONST		SEEING II
		TRANS I
		INSTR 22UC
		EYEPIECE 10
		POWER 240
DATE 7/2/19		COMMENTS
TIME 250		

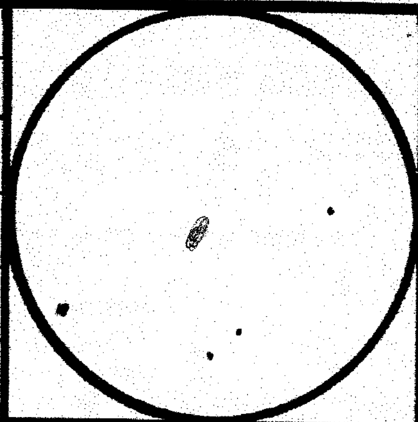
NGC 5716		SITE
CONST		SEEING
		TRANS
		INSTR
		EYEPIECE
		POWER
DATE 11		COMMENTS
TIME 255		

NGC 3356		SITE
CONST		SEEING
		TRANS
		INSTR
		EYEPIECE
		POWER
DATE 11		COMMENTS 2x1 along EF
TIME 300		

NGC 3163		SITE
CONST		SEEING
		TRANS
		INSTR
		EYEPIECE
		POWER
DATE 11		COMMENTS AV=3
TIME 305		

HERSCHEL OBSERVATIONS

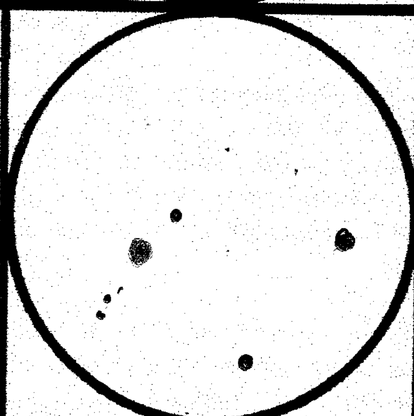
NGC 3304
CONST
DATE 7/2/19
TIME 310



SITE	ACT	SEEING II	TRANS I-
INSTR	22UC	EYEPIECE 10	POWER 240

COMMENTS

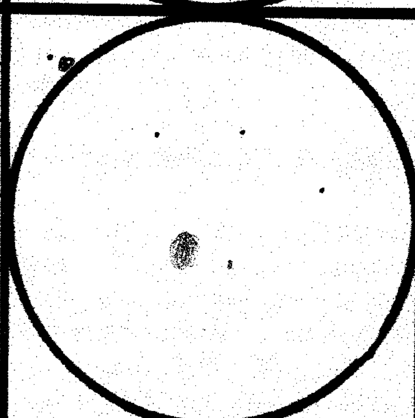
NGC 3304
CONST
DATE "
TIME 315



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

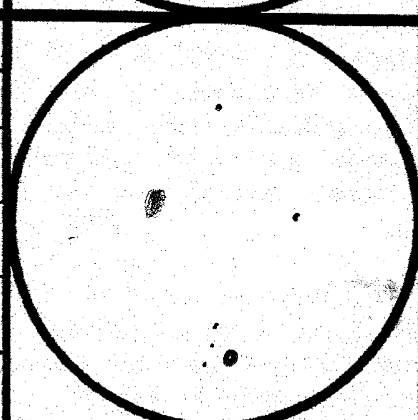
NGC 3380
CONST
DATE "
TIME 320



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

NGC 3400
CONST
DATE "
TIME 325



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

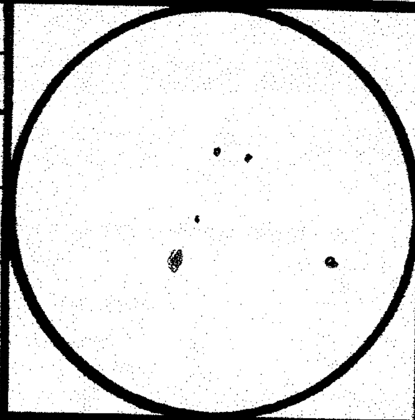
COMMENTS

NGC 3418

CONST

DATE 7/2/19

TIME 330



SITE ACT | SEEING II | TRANS I-

INSTR 22 VC | EYEPIECE 10 | POWER 240

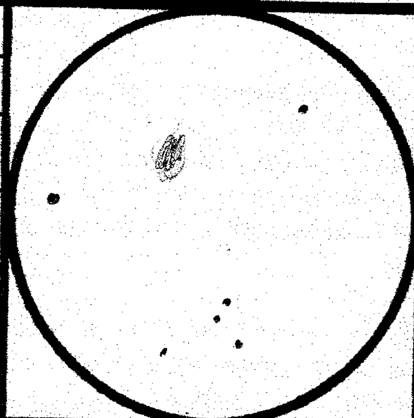
COMMENTS

NGC 3451

CONST

DATE "

TIME 335



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

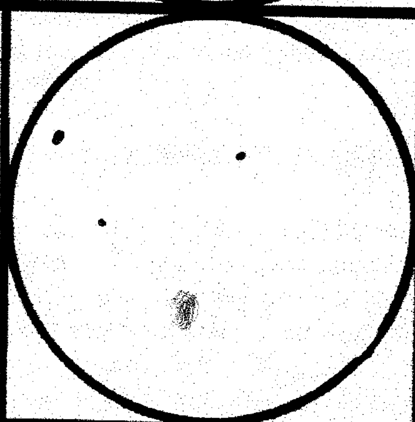
COMMENTS

NGC 3691

CONST

DATE "

TIME 340



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

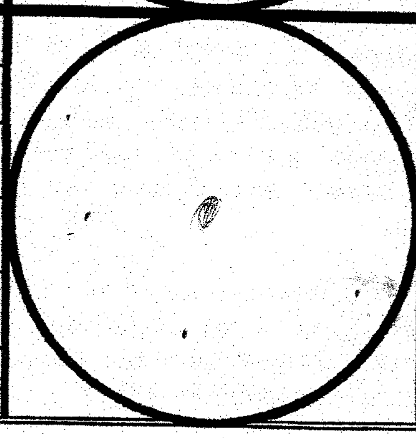
COMMENTS

NGC 3701

CONST

DATE "

TIME 345



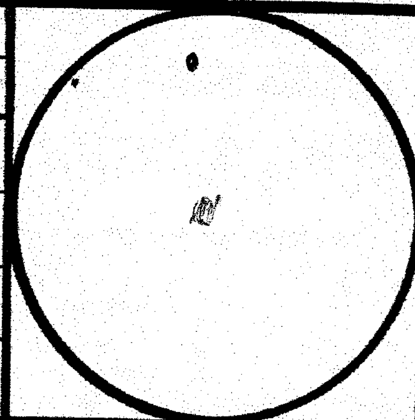
SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

HERSCHEL OBSERVATIONS

NGC	3710
CONST	
DATE	7/2/19
TIME	350

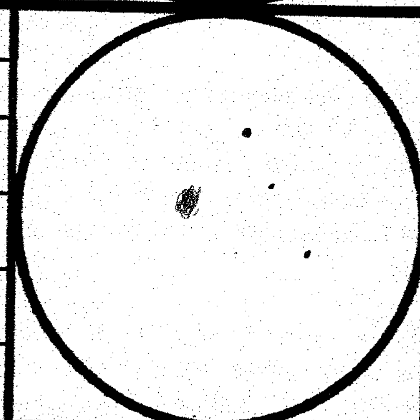


SITE	ACT	SEEING	II	TRANS	I-
INSTR	22UC	EYEPIECE	10	POWER	240

COMMENTS

AMORPHOUS

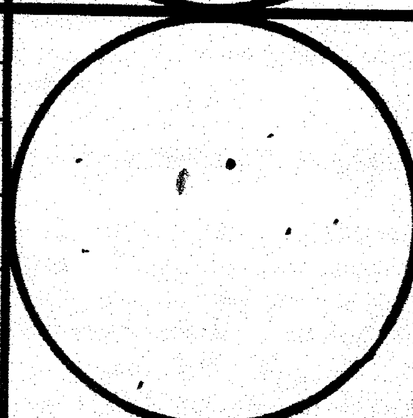
NGC	3728
CONST	
DATE	〃
TIME	355



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

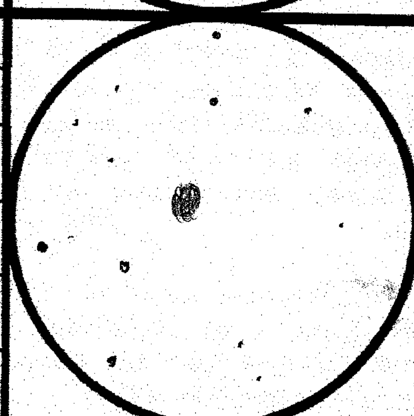
NGC	3772
CONST	
DATE	〃
TIME	400



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

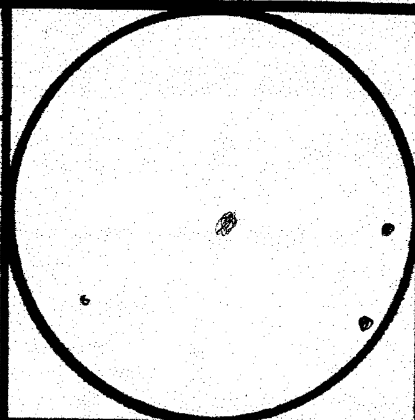
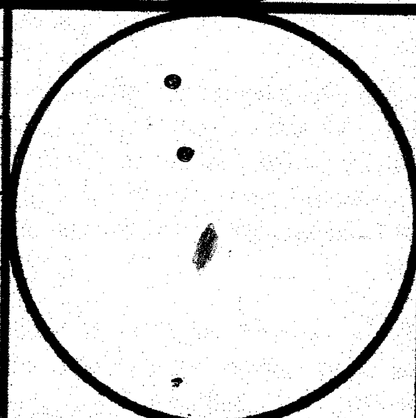
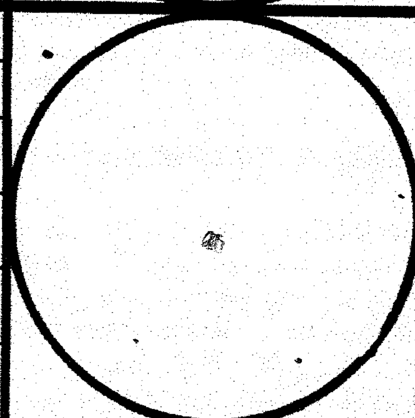
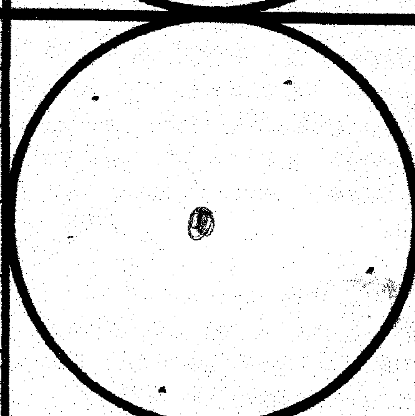
NGC	4300
CONST	
DATE	〃
TIME	405



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

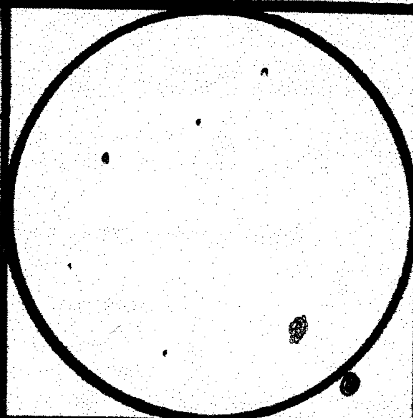
COMMENTS

HERSCHEL OBSERVATIONS

NGC 4376 CONST DATE 7/2/19 TIME 410		SITE ACT INSTR 22UC SEEING II TRANS I- EYEPIECE 10 POWER 240 COMMENTS
NGC 4418 CONST DATE " TIME 415		SITE ↓ INSTR SEEING ↓ TRANS EYEPIECE POWER COMMENTS
NGC 4422 CONST DATE " TIME 420		SITE ↓ INSTR SEEING ↓ TRANS EYEPIECE POWER COMMENTS
NGC 4690 CONST DATE " TIME 425		SITE ↓ INSTR SEEING ↓ TRANS EYEPIECE POWER COMMENTS

HERSCHEL OBSERVATIONS

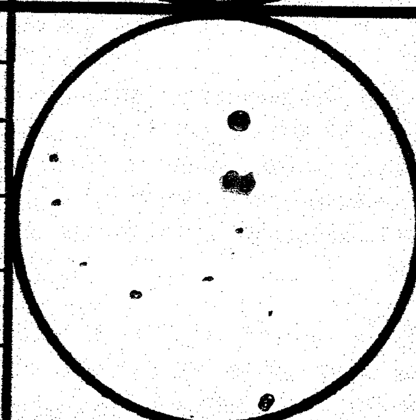
NGC	4739
CONST	
DATE	7/2/19
TIME	430



SITE	SEEING	TRANS
ACT	II	II
INSTR	**EYEPIECE**	**POWER**
22 UC	10	240

COMMENTS

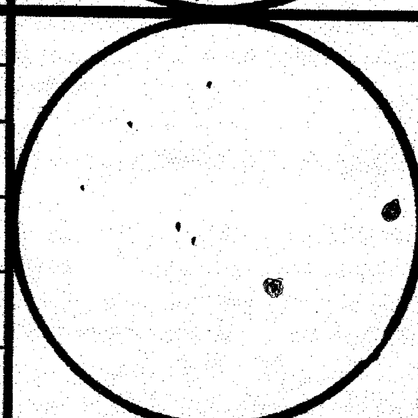
NGC	4759
CONST	
DATE	″
TIME	435



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

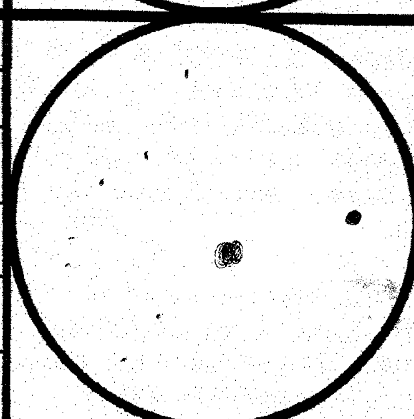
NGC	4770
CONST	
DATE	″
TIME	440



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

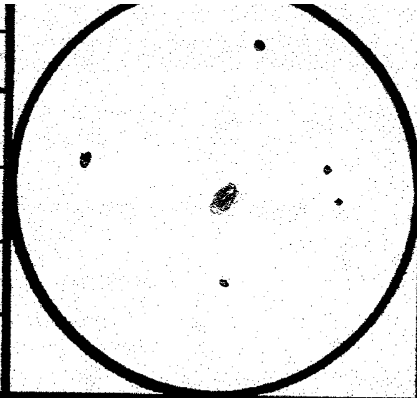
NGC	4773
CONST	
DATE	″
TIME	445



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS

CONST



DATE 7/2/19

TIME 450

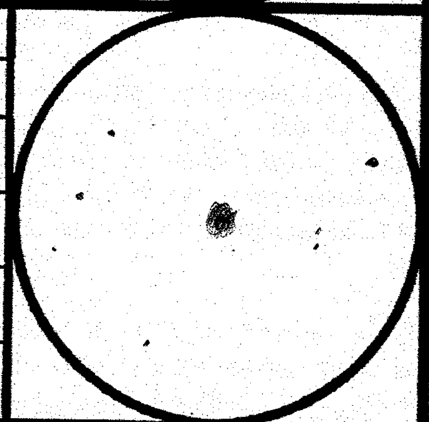
SITE ACT | SEEING II | TRANS II

INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS

NGC 4786

CONST



DATE 11

TIME 455

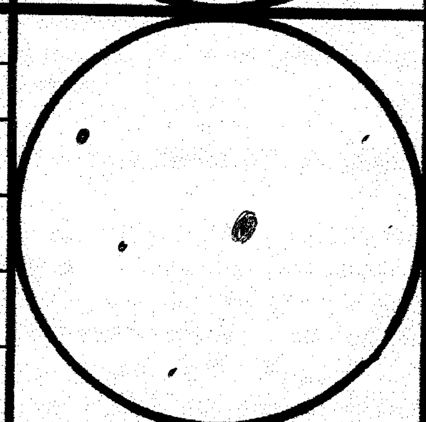
SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

NGC 4813

CONST



DATE 11

TIME 500

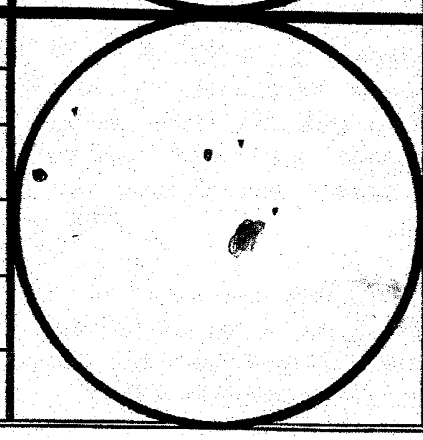
SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

NGC 4843

CONST



DATE 11

TIME 505

SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

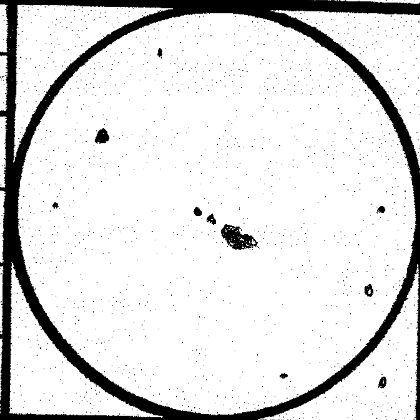
COMMENTS

NGC 4879

CONST

DATE 7/2/19

TIME 510



SITE

SEEING TRANS

INSTR

EYEPIECE POWER

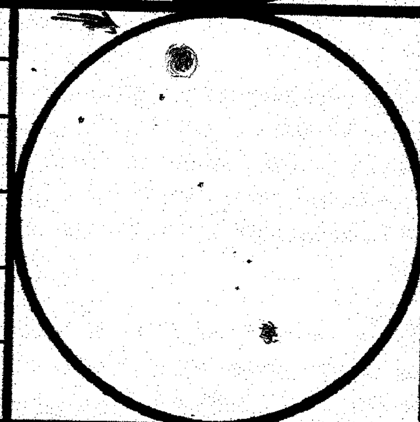
COMMENTS

NGC 4890

CONST

DATE 11

TIME 515



SITE

SEEING TRANS

INSTR

EYEPIECE POWER

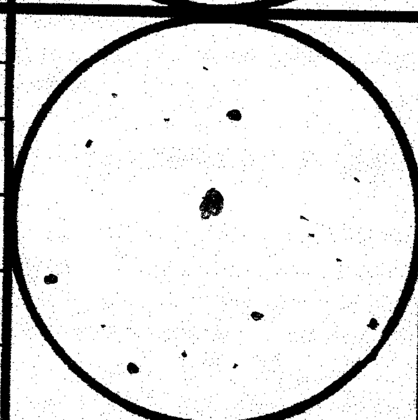
COMMENTS

NGC 4989

CONST

DATE 11

TIME 518



SITE

SEEING TRANS

INSTR

EYEPIECE POWER

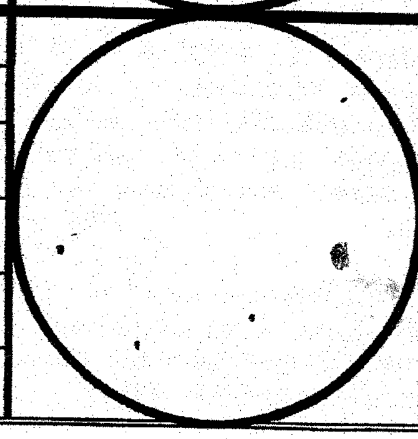
COMMENTS

NGC 5203

CONST

DATE 11

TIME 520



SITE

SEEING TRANS

INSTR

EYEPIECE POWER

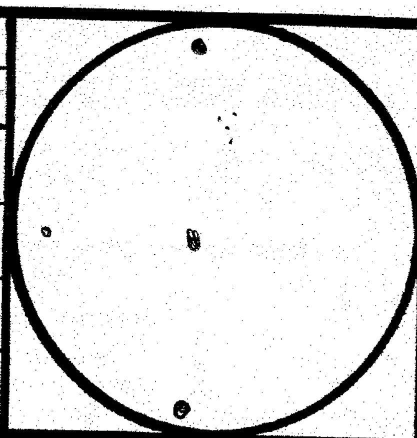
COMMENTS

NGC 4196

CONST

DATE 7/2/19

TIME 525



SITE ACT | SEEING II | TRANS II

INSTR 22UC | EYEPIECE 10 | POWER 240

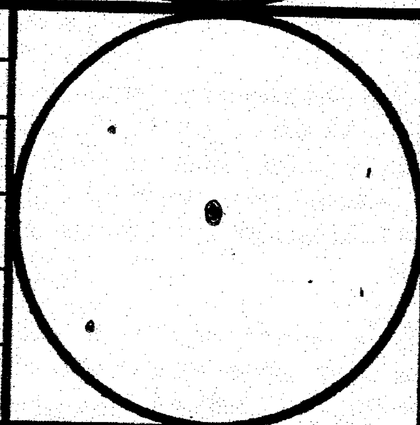
COMMENTS

NGC 4209

CONST

DATE 11

TIME 528



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

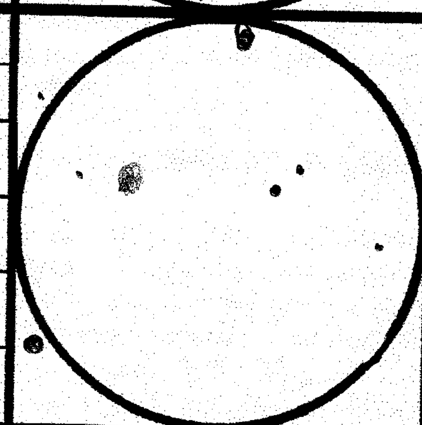
COMMENTS

NGC 4272

CONST

DATE 11

TIME 532



SITE ↓ | SEEING ↓ | TRANS

INSTR | EYEPIECE | POWER

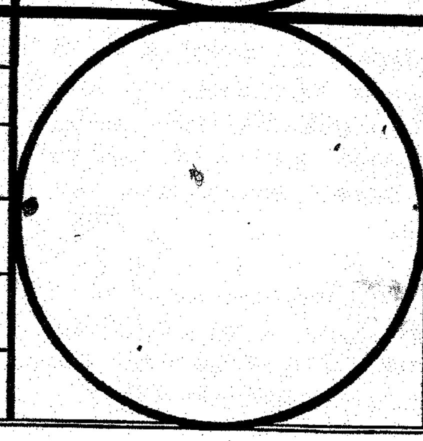
COMMENTS

NGC 4253

CONST

DATE 11

TIME 535



SITE ↓ | SEEING ↓ | TRANS

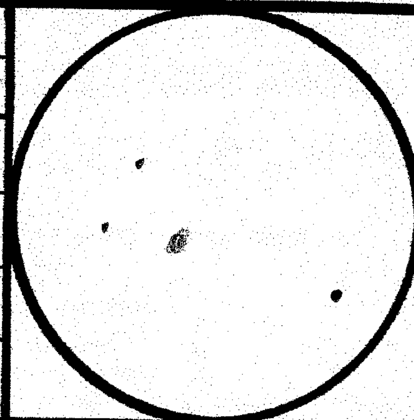
INSTR | EYEPIECE | POWER

COMMENTS

AV=2

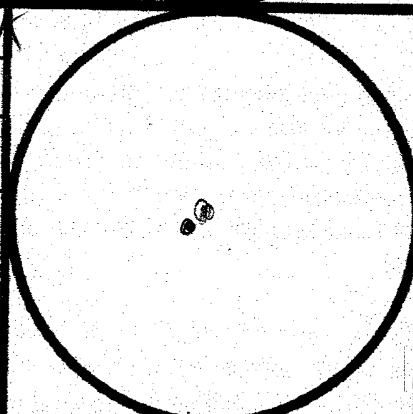
HERSCHEL OBSERVATIONS

NGC 4008
CONST
DATE 7/2/19
TIME 538



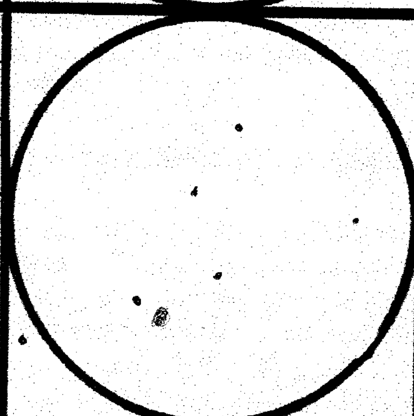
SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS

NGC 4789A
CONST
DATE 11
TIME 542



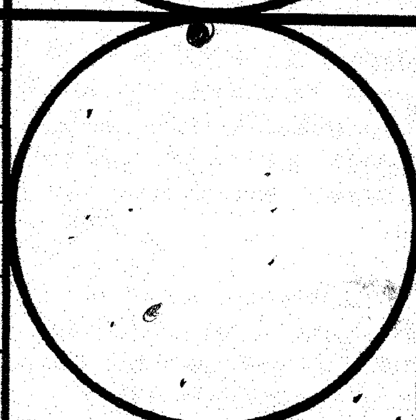
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4798
CONST
DATE 11
TIME 545



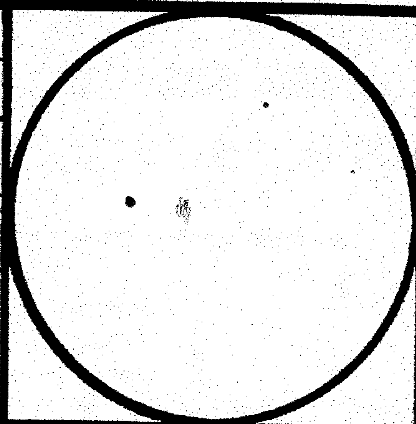
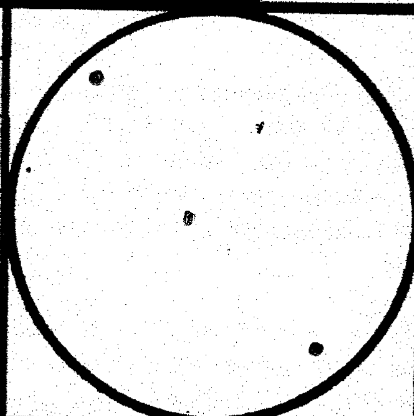
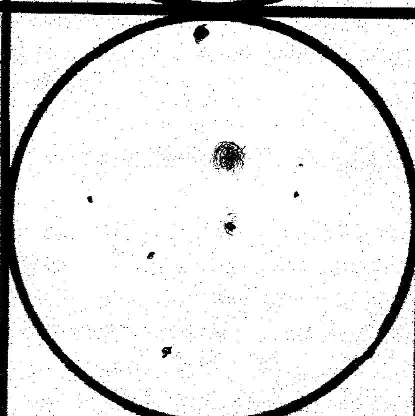
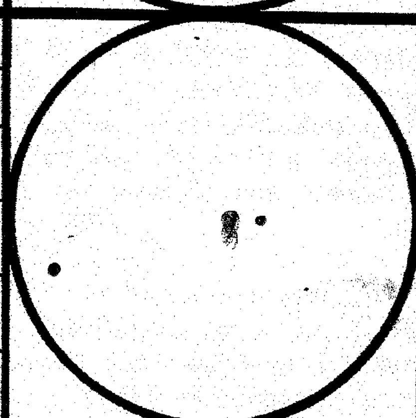
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4816
CONST
DATE 11
TIME 548



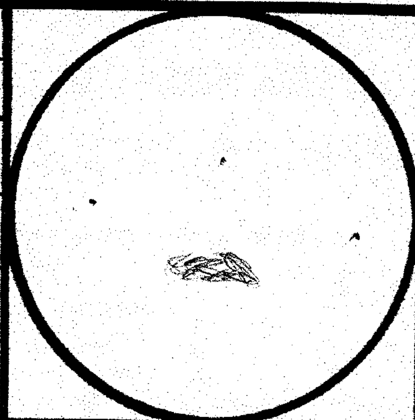
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

HERSCHEL OBSERVATIONS

NGC 4819 CONST DATE 7/2/19 TIME 550		SITE ACT · SEEING II · TRANS II INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS NO 21
NGC 4827 CONST DATE " TIME 552		SITE · SEEING · TRANS INSTR ↓ · EYEPIECE ↓ · POWER COMMENTS
NGC 4839 CONST DATE " TIME 554		SITE · SEEING · TRANS INSTR ↓ · EYEPIECE ↓ · POWER COMMENTS
NGC 4840 CONST DATE " TIME 556		SITE · SEEING · TRANS INSTR ↓ · EYEPIECE ↓ · POWER COMMENTS

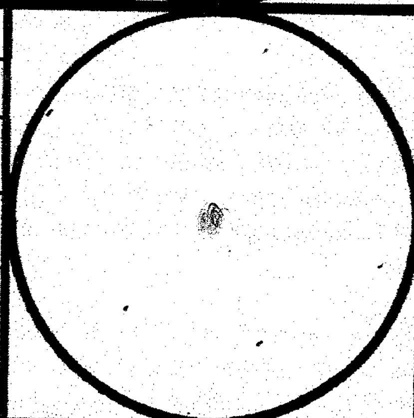
HERSCHEL OBSERVATIONS

NGC 4841A
CONST
DATE 7/2/19
TIME 558



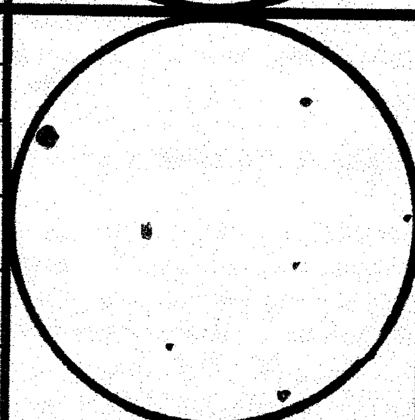
SITE ACT | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4869
CONST
DATE 〃
TIME 600



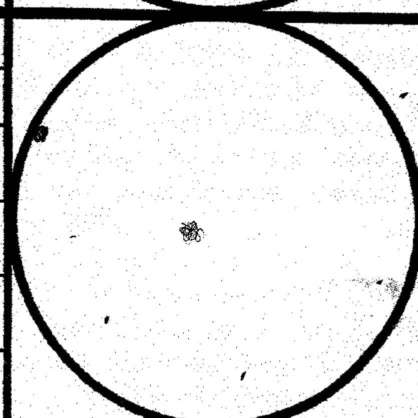
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4874
CONST
DATE 〃
TIME 602



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4892
CONST
DATE 〃
TIME 604



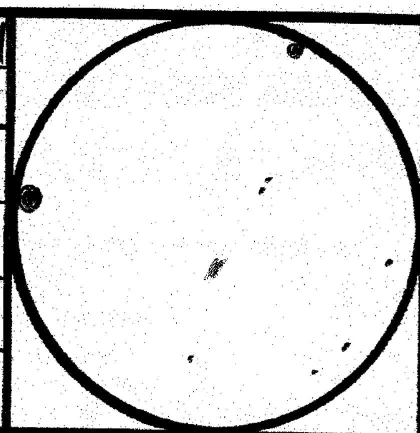
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC IC4051

CONST

DATE 7/2/19

TIME 606



SITE ACT | SEEING II | TRANS II

INSTR 22VC | EYEPIECE 10 | POWER 240

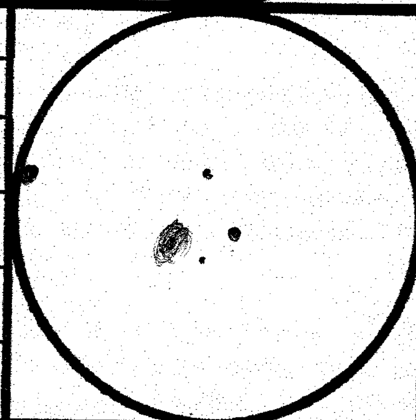
COMMENTS

NGC 4923

CONST

DATE 〃

TIME 608



SITE ↓ | SEEING | TRANS

INSTR | EYEPIECE ↓ | POWER

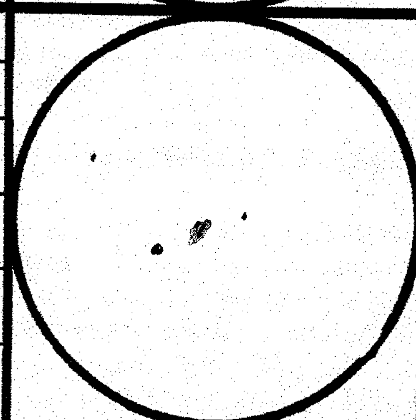
COMMENTS

NGC 4944

CONST

DATE 〃

TIME 610



SITE ↓ | SEEING | TRANS

INSTR | EYEPIECE ↓ | POWER

COMMENTS

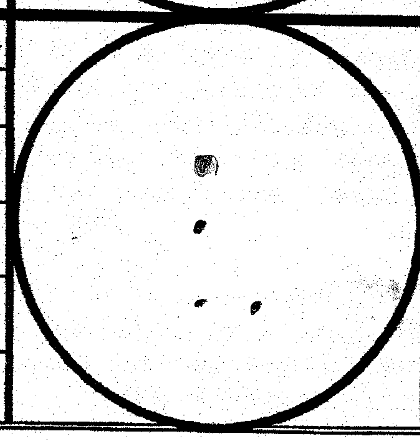
AV=2

NGC 4952

CONST

DATE 〃

TIME 612

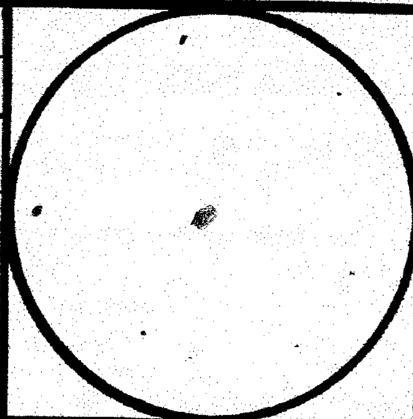


SITE ↓ | SEEING | TRANS

INSTR | EYEPIECE ↓ | POWER

COMMENTS

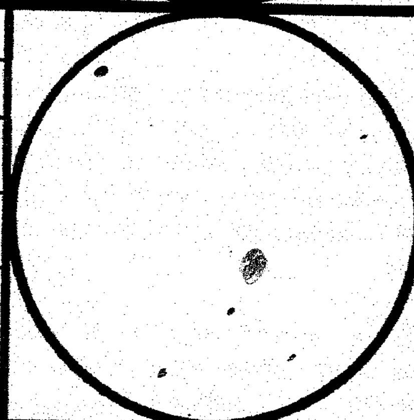
NGC	4957
CONST	
DATE	7/2/19
TIME	614



SITE	ACT	SEEING	II	TRANS	II
INSTR	22UC	EYEPIECE	10	POWER	240

COMMENTS

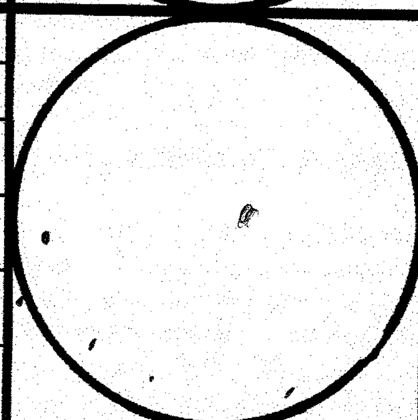
NGC	4961
CONST	
DATE	"
TIME	616



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

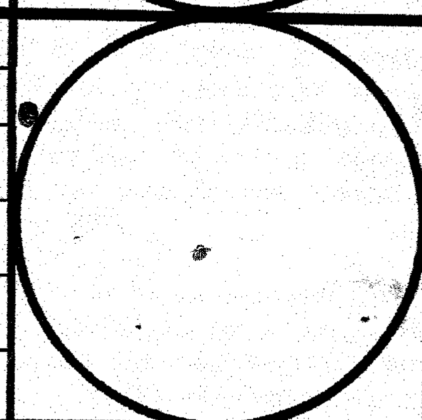
NGC	4966
CONST	
DATE	"
TIME	618



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

NGC	4983
CONST	
DATE	"
TIME	620

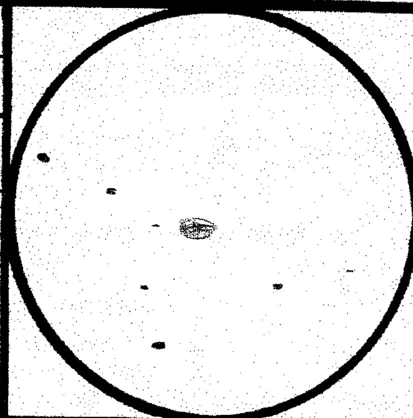


SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

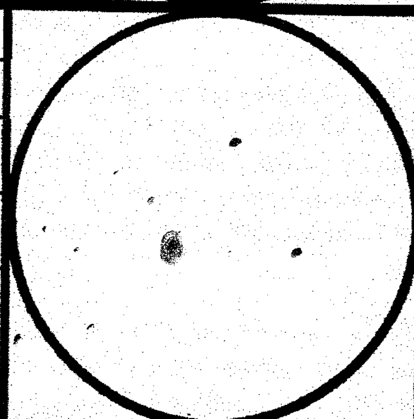
HERSCHEL OBSERVATIONS

NGC 5492
CONST
DATE 7/2/19
TIME 625



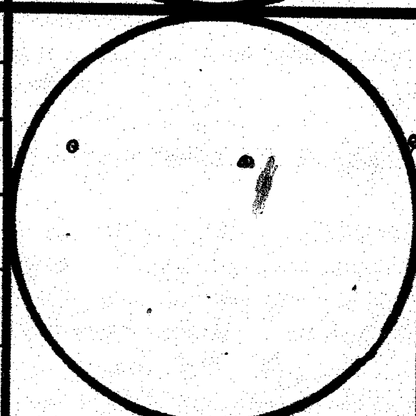
SITE ACT | SEEING II | TRANS II
INSTR 22 VC | EYEPIECE 10 | POWER 240
COMMENTS

NGC 5573
CONST
DATE ''
TIME 630



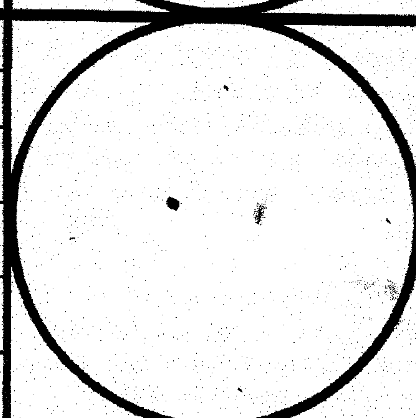
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 5522
CONST
DATE ''
TIME 637



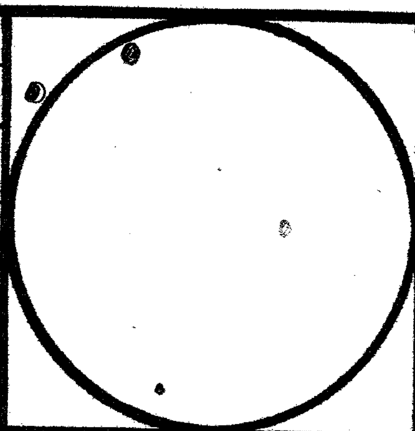
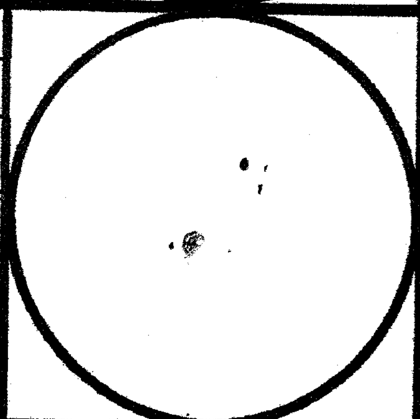
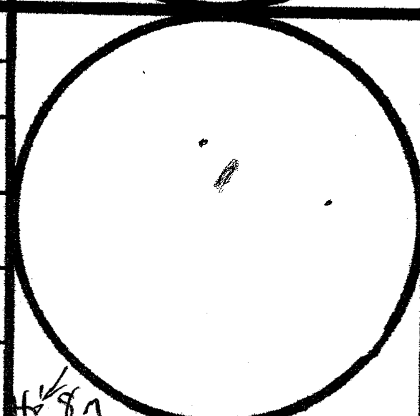
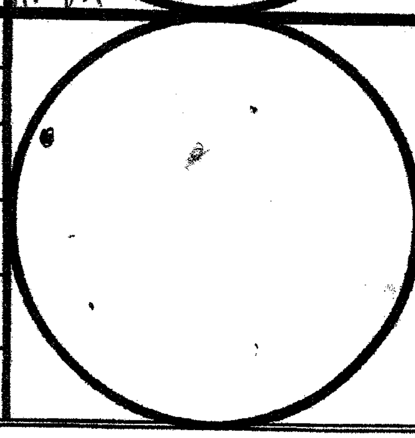
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 5559
CONST
DATE ''
TIME 642

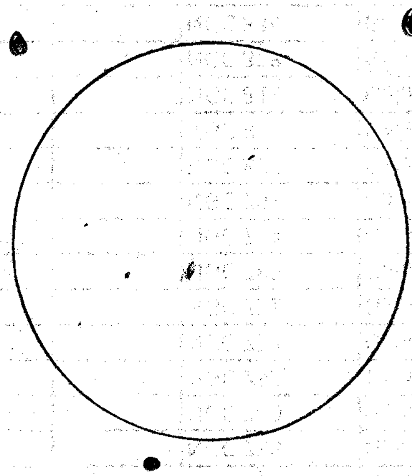


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

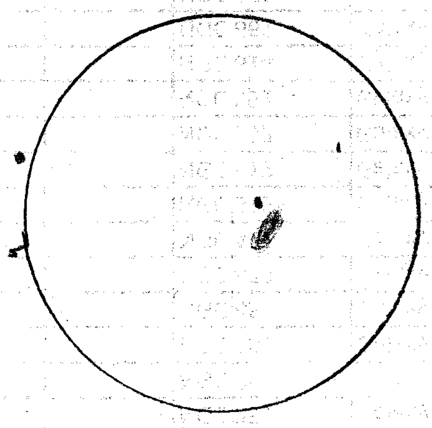
HERSCHEL OBSERVATIONS

NGC 5594		SITE ACT · SEEING II · TRANS II
CONST		INSTR 22VC · EYEPIECE 10 · POWER 240
DATE 7/2/19		COMMENTS AV=4
TIME 645		
NGC 5747		SITE · SEEING · TRANS
CONST		INSTR · EYEPIECE · POWER
DATE "		COMMENTS
TIME 650		
NGC 5913		SITE · SEEING · TRANS
CONST		INSTR · EYEPIECE · POWER
DATE "		COMMENTS
TIME 655	14.8m	
NGC 5937		SITE · SEEING · TRANS
CONST		INSTR · EYEPIECE · POWER
DATE "		COMMENTS
TIME 705		

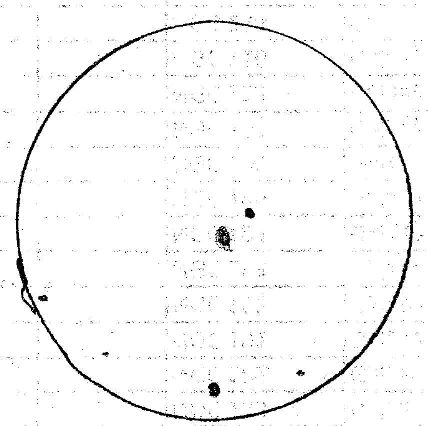
7/2/19 C=II- S=II ACT 22UC 10mm E = 240X



N5610
7:10

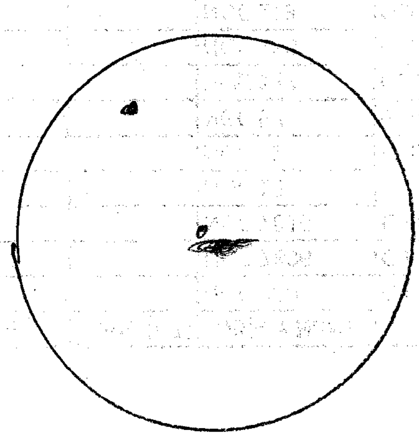


N5635 7:20

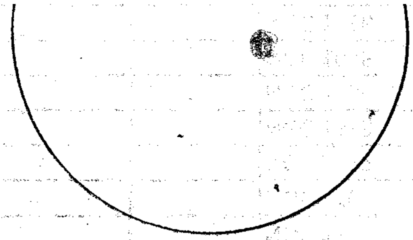


N5639 6:40

639 LEO →
FAIR
9m

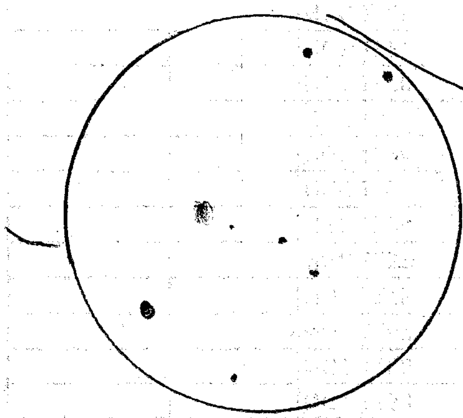


N6010 7:30

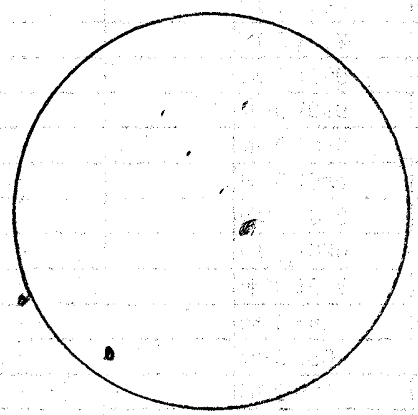


uncorr
7:02:20 ut
9m slow
1526 H8.1

7:00 UT

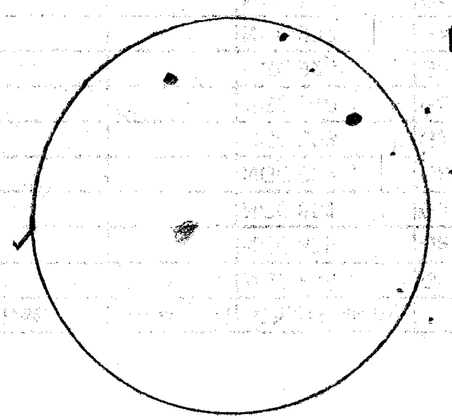


N5928



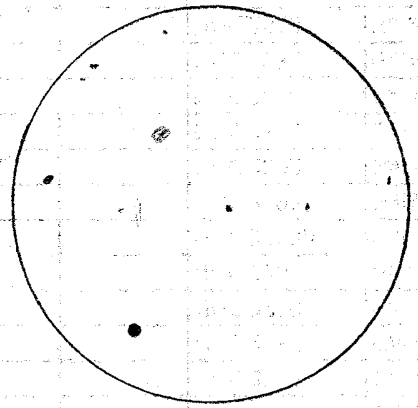
N5910 7:40

N5608 7:45

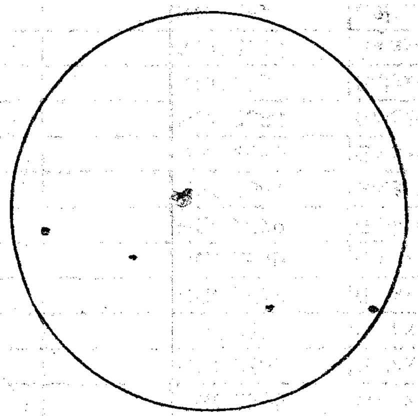


7/2/19

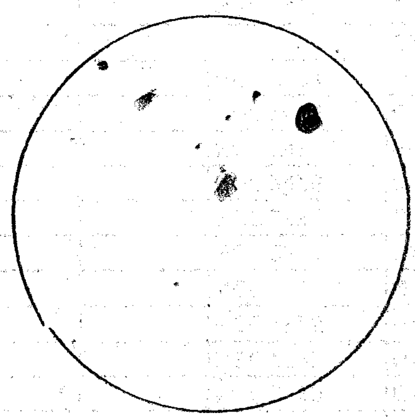
N5540 7:50
AV=2



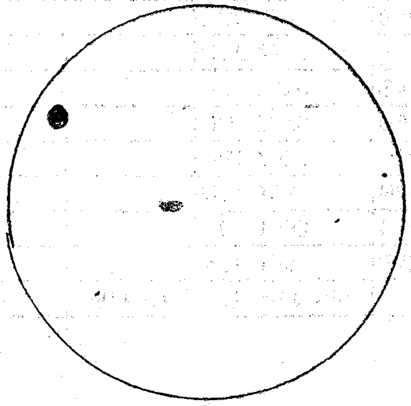
N5622 7:55



N5804
N5797 8:00 UT



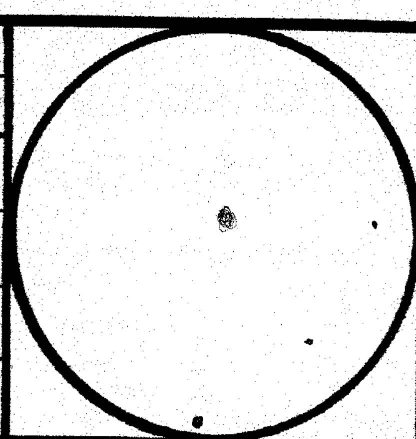
N5707
8:05 UT



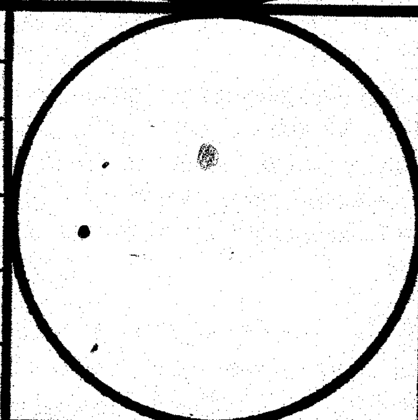
HERSCHEL OBSERVATIONS

H4

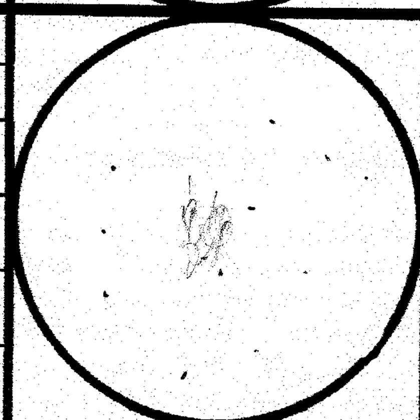
NGC 3687	SITE ACT	SEEING II	TRANS ~~III~~
CONST	INSTR 22UC	EYEPIECE 10E	POWER 240
DATE 7/12/19	COMMENTS		
TIME 3100	SM, round		
	~13M		



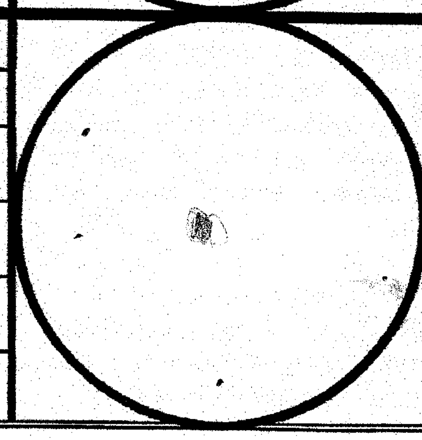
NGC 3891	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 11	COMMENTS		
TIME 305	VD - AV=3 round		



NGC 3897	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 11	COMMENTS		
TIME 310	Not S, VD, Arm?		



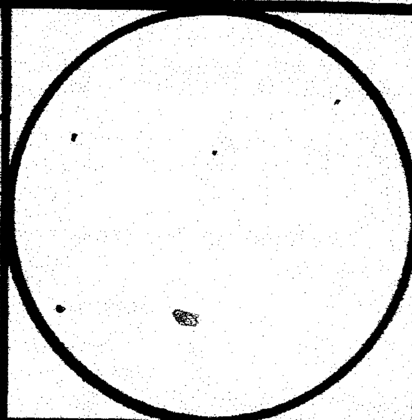
NGC 3911	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 11	COMMENTS		
TIME 315			



HERSCHEL OBSERVATIONS

H4

NGC	3926A
CONST	
DATE	7/12/19
TIME	320
SITE	ACT
SEEING	II
TRANS	III
INSTR	22VC
EYEPIECE	10E
POWER	240

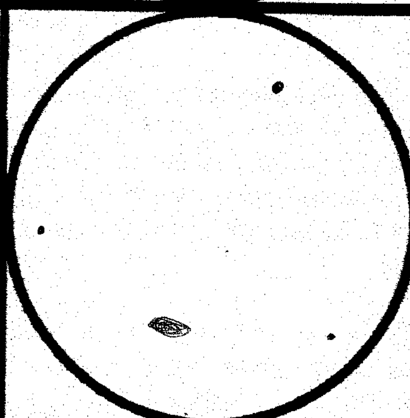


COMMENTS

SM, COMPACT NUC

2x1 SHAPE

NGC	3930
CONST	
DATE	11
TIME	325
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	

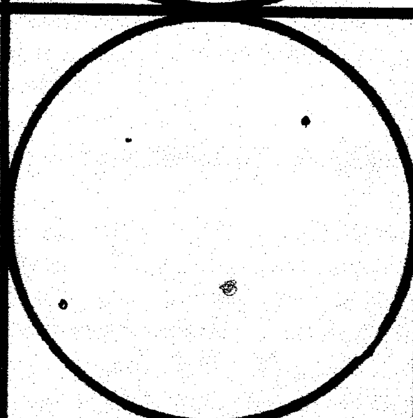


COMMENTS

LENTICULAR OR TIGHT

TILTED SPIRAL

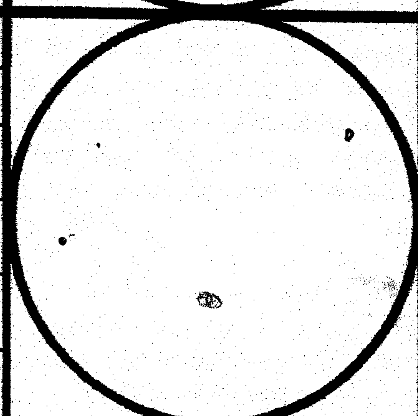
NGC	3944
CONST	
DATE	11
TIME	330
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	



COMMENTS

T&O NO DETAILS

NGC	3951
CONST	
DATE	11
TIME	340
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	



COMMENTS

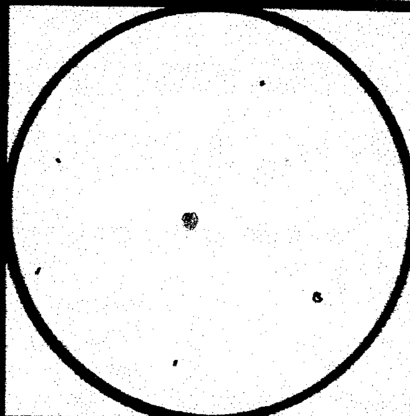
T&O, a bit elong

HERSCHEL OBSERVATIONS

754

NGC 3971
CONST

DATE 7/12/19
TIME 345

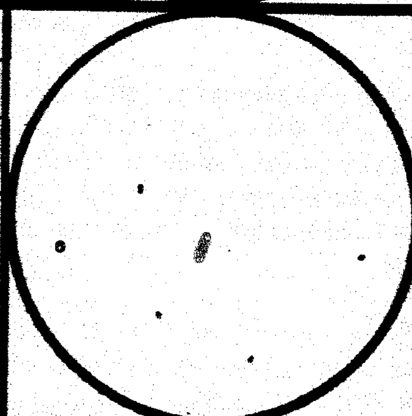


SITE ACT	SEEING II	TRANS III
INSTR 22UC	EYEPIECE 10E	POWER 240X

COMMENTS

NGC 4020
CONST

DATE
TIME

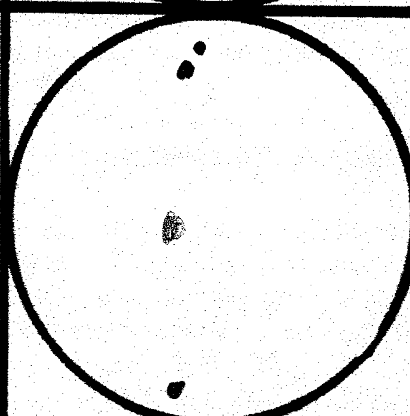


SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

NGC 4163
CONST

DATE
TIME

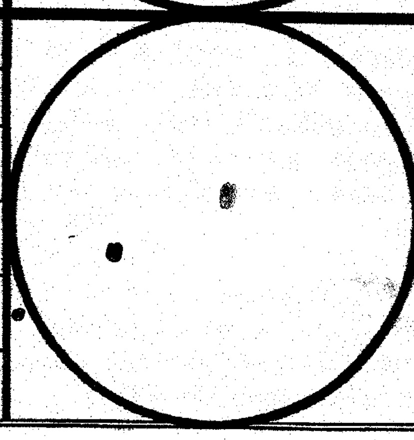


SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

NGC 4190
CONST

DATE
TIME



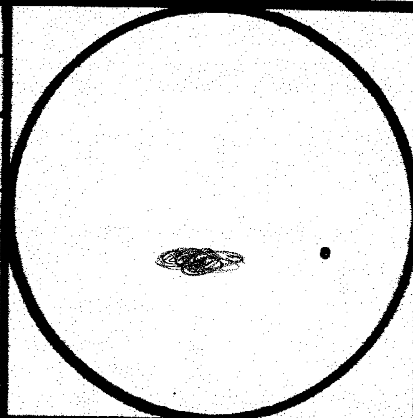
SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

HERSCHEL OBSERVATIONS

NGC 4214
CONST

DATE 7/12/19
TIME

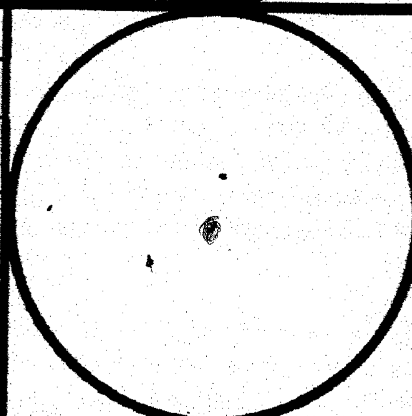


SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

N05
Hy

NGC 4619
CONST

DATE 〃
TIME

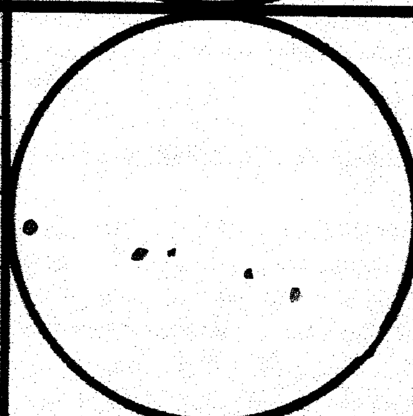


SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

Hy

NGC 4605
CONST

DATE
TIME 〃

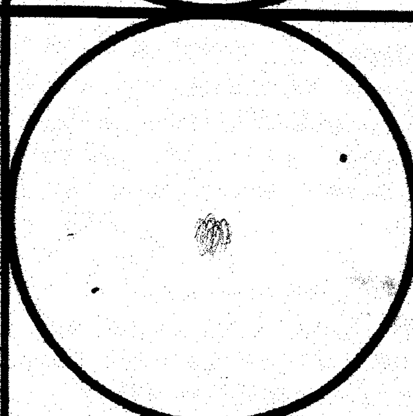


SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

←

NGC 4662
CONST

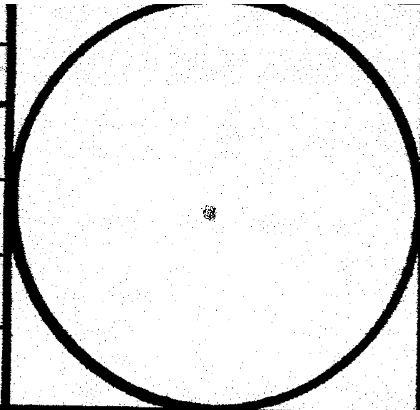
DATE
TIME 〃



SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS
AV=3

NGC 4774
CONST

DATE 7/12/19
TIME

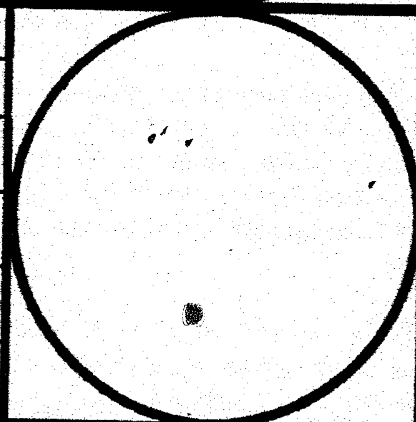


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
T&D
INF

NGC 4834
CONST

DATE
TIME

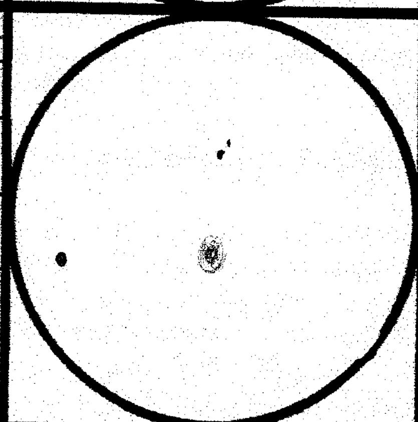


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

NGC 4932
CONST

DATE
TIME

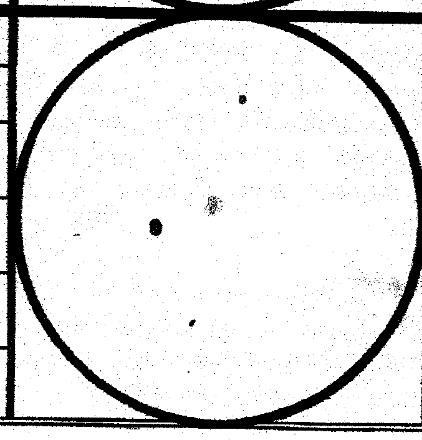


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS

NGC 4963
CONST

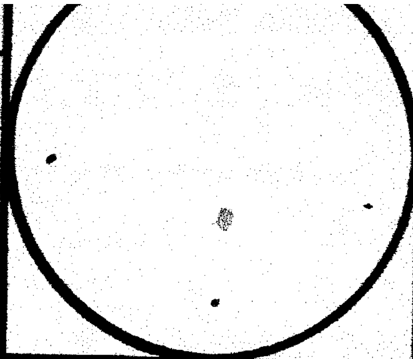
DATE
ME



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
T&D

CONST



INSTR | EYEPIECE | POWER

COMMENTS

DATE 7/12/19

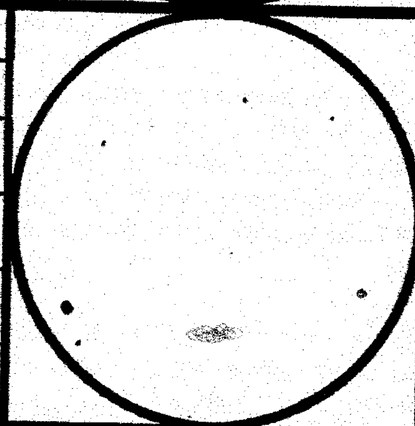
TIME

NGC 4986

CONST

DATE

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

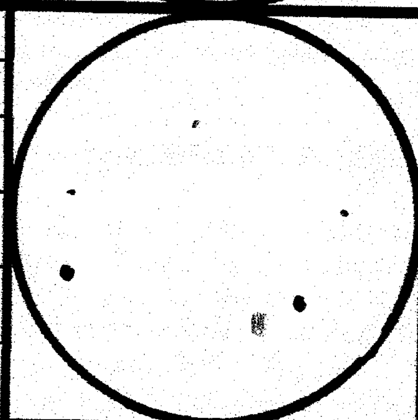
COMMENTS

NGC 5003

CONST

DATE

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

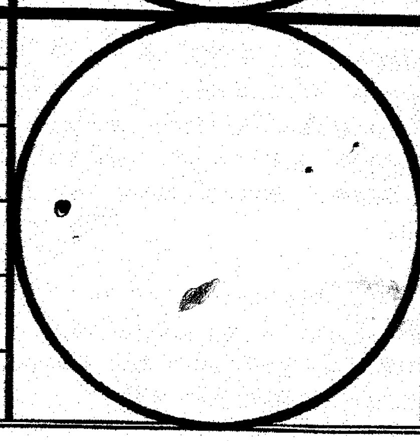
T&D

NGC 5093

CONST

DATE

IME



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

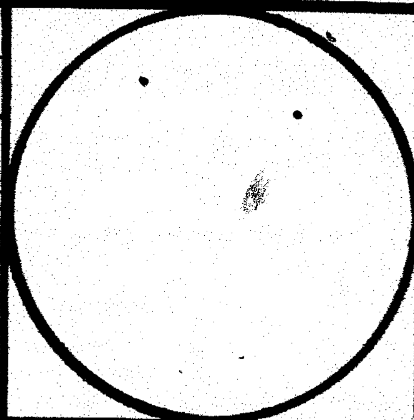
HERSCHEL OBSERVATIONS

NGC 5096

CONST

DATE 7/12/19

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

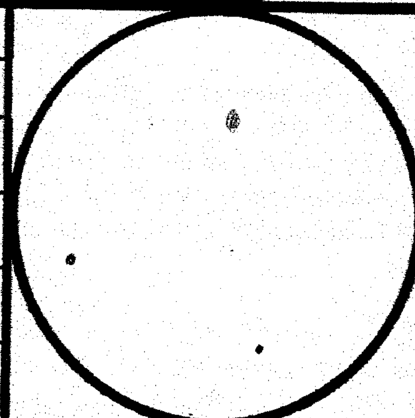
COMMENTS

NGC 5799

CONST

DATE

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

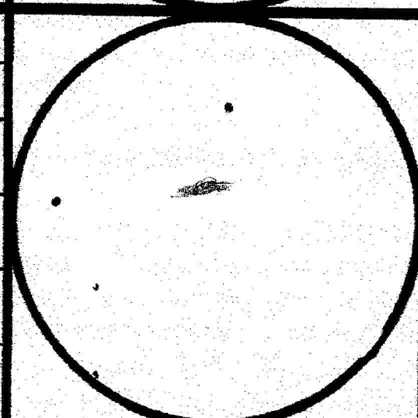
AV=3

NGC 5743

CONST

DATE

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

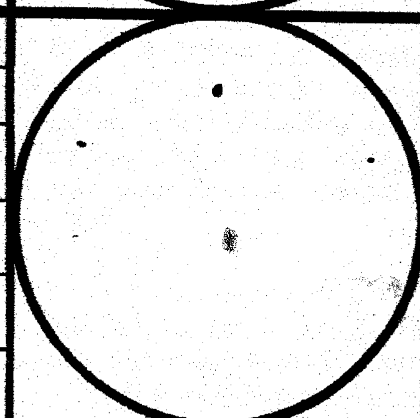
COMMENTS

NGC 5251

CONST

DATE

TIME



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

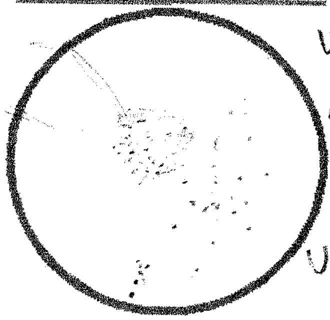
COMMENTS

T&D

M33 in
12 Pleads

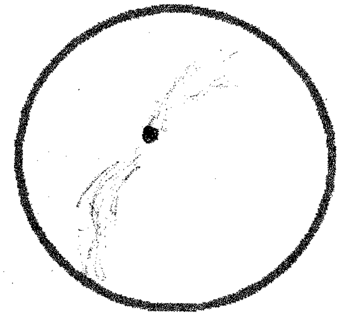
DATE= 9/25/2019 TIME= UT SITE= OTSP C= I– S= II SCOPE=22UC @~~X~~ 100

COCOON



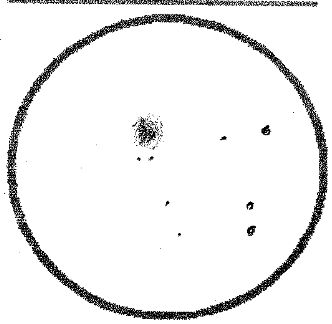
UNDRAWABLE
ALSO M56/57
27/29/71
UHC FILTER
NO ADD'L
DETAIL

N 6992 Etc.



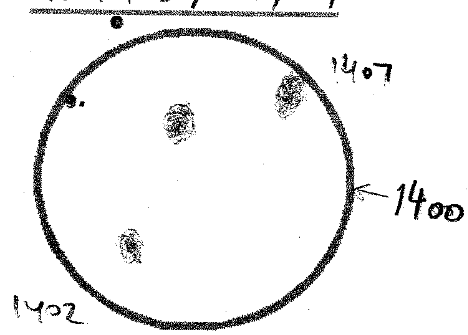
VEIL ALL THE
WAY
HOLE'S BRIGHT
PART

N1635



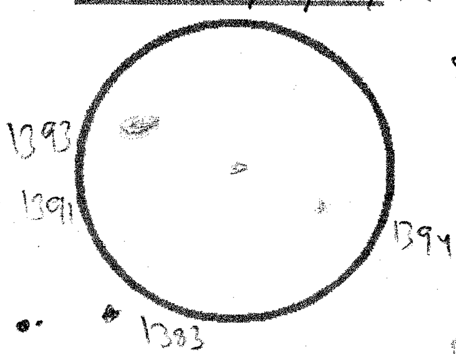
7:35

N 1400/02/07



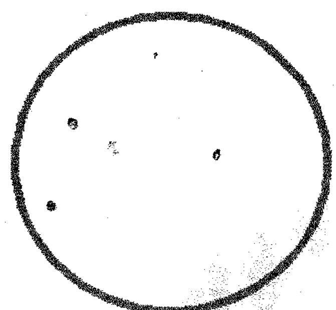
7:50

N 1383/91/93/94



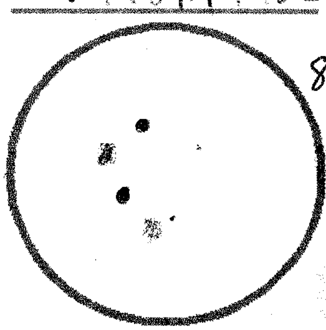
8:00

N 1390



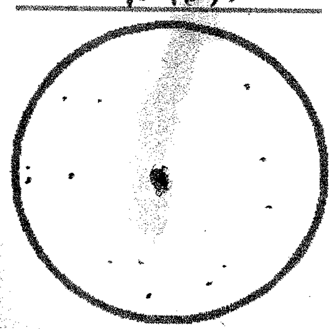
8:10
AV=2

N 1481 + 1482



8:20

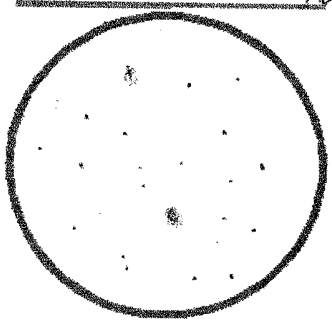
N 1653



8:25

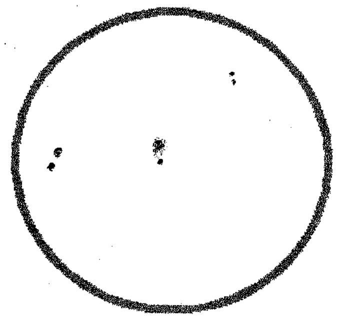
DATE= 9/25/2019 TIME= UT SITE= OTSP C=I S=II SCOPE=22UC @2~~[illegible]~~X 100

N1643+1645



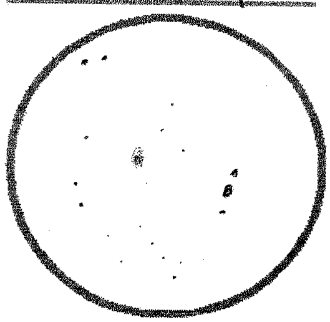
8:30

N 1656



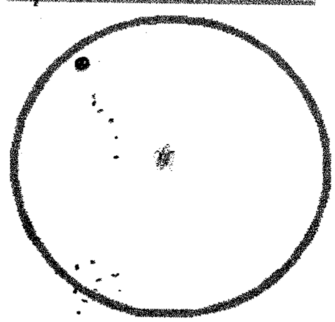
8:40

N1659



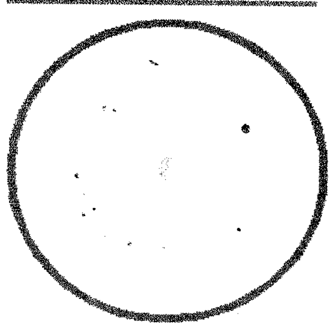
8:45

N 1665



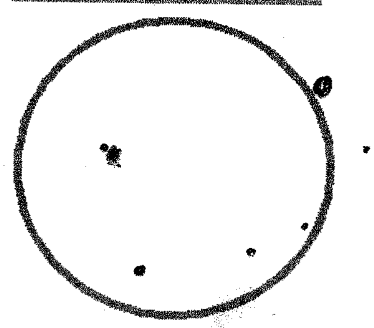
8:50

N 1677



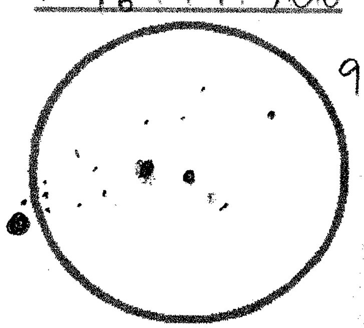
9:00
AV=3

N 1681



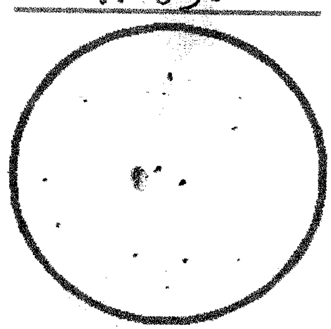
9:05

N 1699+1700



9:10

N1636

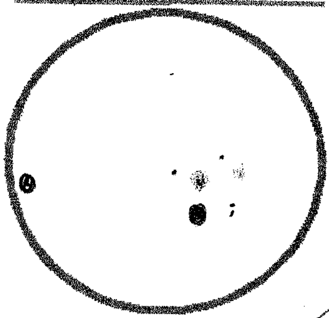


9:15

4:02 earthshine!

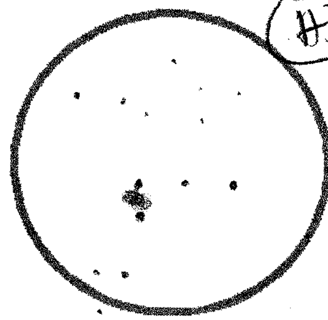
DATE= 9/16/2019 TIME= UT SITE= OTSP C= I S= II SCOPE=22UC @[redacted]X
100

N 1646+8 (H3)



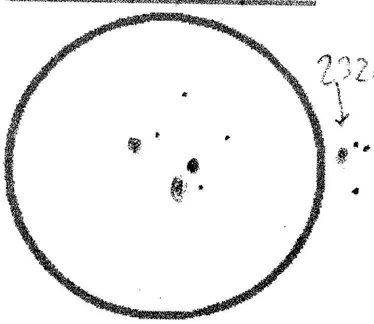
9:20

N 1729 (H3)



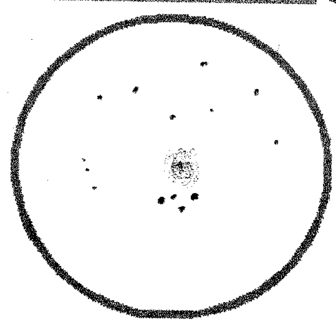
9:25

N 2320/22/26 (H3X3)



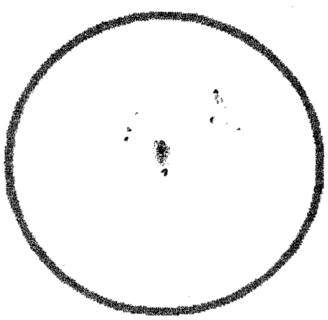
9:30

N 2326 (H3)



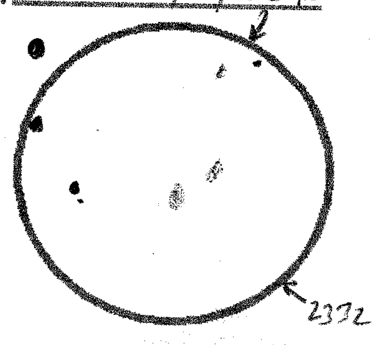
9:35

N 2329 (H3)



9:40

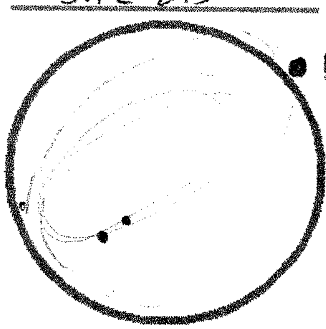
N 2330/2/2340 (H3)



9:45

ALSO
AGG 12
FROM
GG&C
(REPEAT)

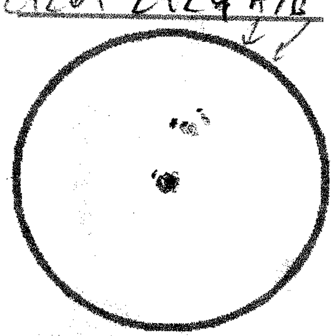
Sh 2-273



9:50

BN from
near η Ori
ESE 7'x2'

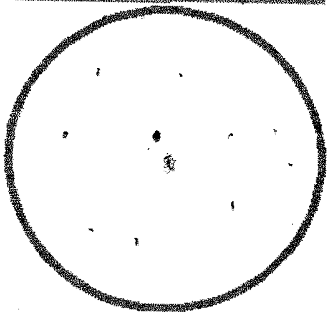
N2426+2429 A78



9:55

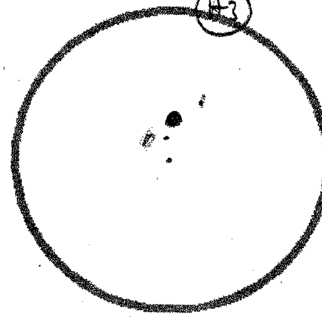
DATE= 9/15/2019 TIME= UT SITE= OTSP C=F S= II SCOPE=22UC @~~240~~X 100

N2431 H3



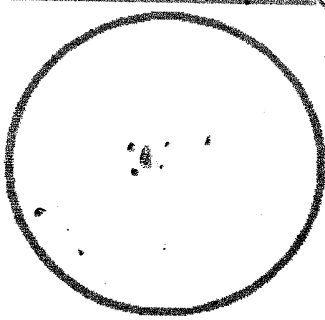
10:00

N 2474/5 H3



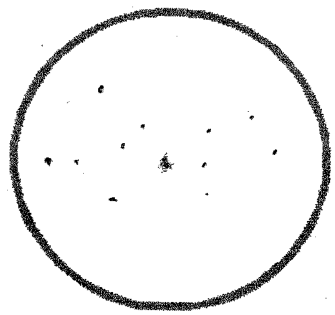
240X
NO 2nd 10:05
ALL FS
MATCH

N2469 H3



10:10

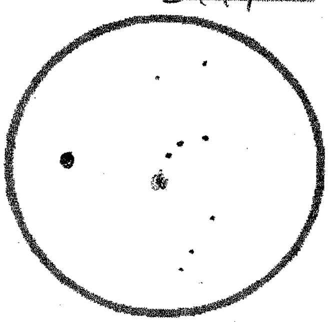
N 2488



H3

10:15

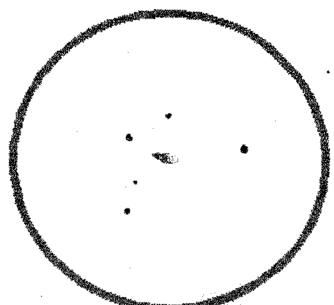
N 2497



H3

10:20

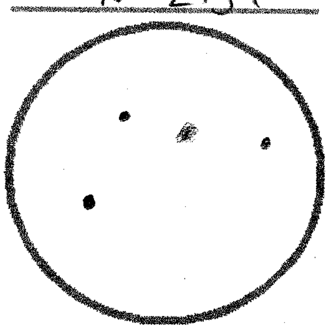
N 2505



H3

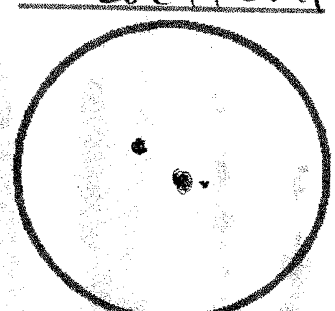
10:25

N 2534 H3



10:30

H3 H3
N 2629+2641

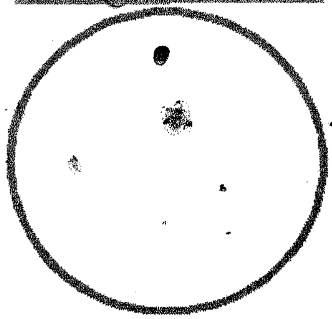


10:35

DATE= 9/25/2019 TIME= UT SITE= OTSP C= I S= II SCOPE=22UC @2~~40~~X

100

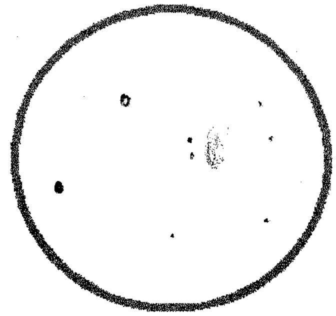
N 2650 + U3593 (NOT H3)



10:40

← N2650

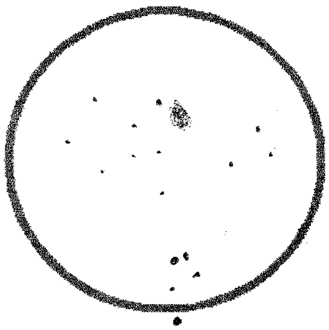
N 2710



10:45

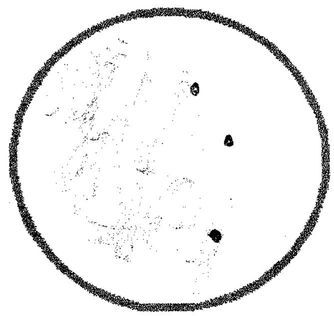
ALL H3

N 2726



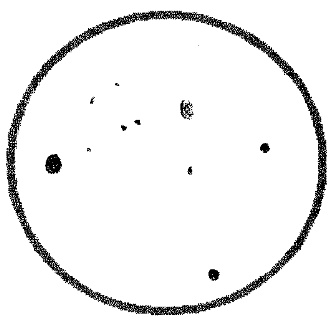
10:50

N 1982



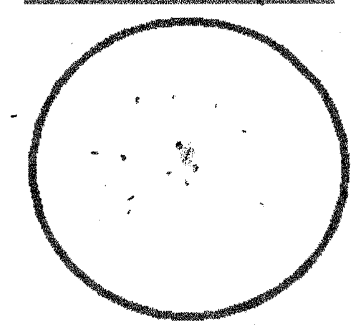
10:55

N 2110



11:00

N 1954

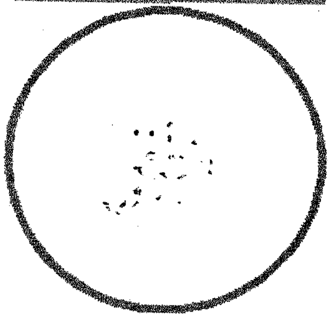


11:05

9/25/19

DATE= 9/26/2019 TIME= 2:20 – 3:40 UT SITE= OTSP C= I- S= II- SCOPE=22UC @[redacted]X
100

M26

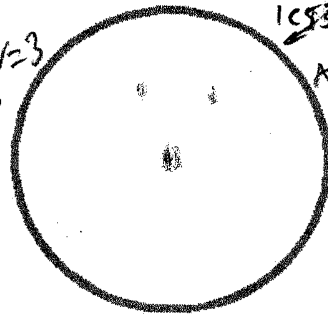


IC 5370 + 69 + 72

IC 5372 → AV=3

IC5369 AV=3

AV=1



2:30 UT

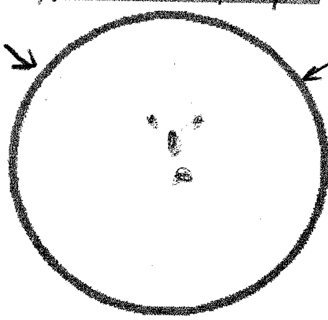
N 70 + 68 /71/72

71

68

70

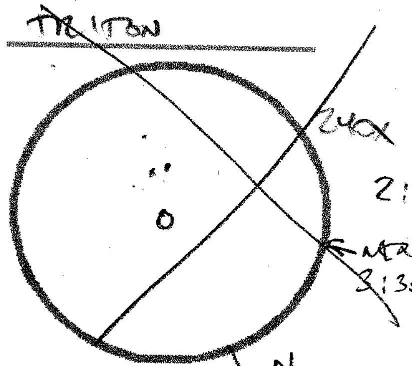
72



2:40
240X

Also
AGC3
From GGRL
(ROBERT)

TRITON



240X

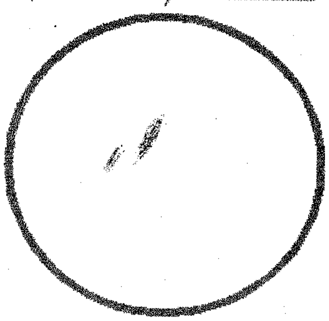
2:50 UT

NEXT DAY
3:30 UT

N

9/26/19
240X

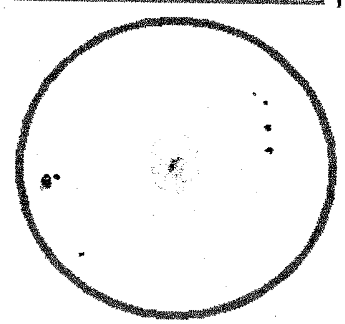
N 7537/41



100X

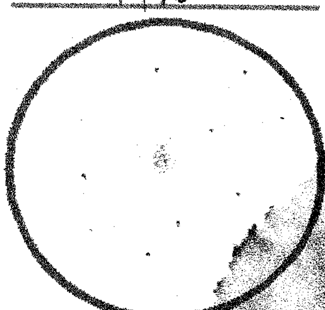
3:00

COMET AFRICANO



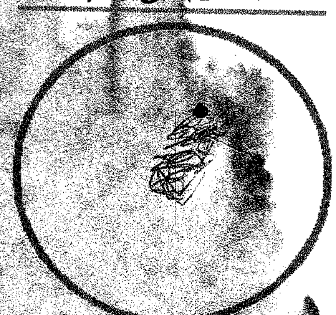
3:15 UT

M76



100X
NO FILTER

NGC 1333



S&T 10/19

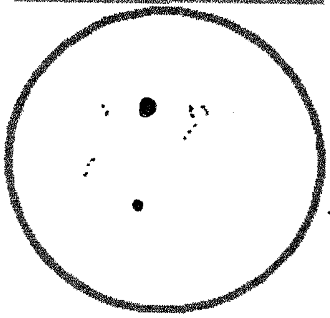
very cloudy moon yesterday 7:00 am

(9/25/19 12:00 UT)

DATE= 9/26/2019 TIME= 3:40-4:15 UT SITE= OTSP C= I- S= II- SCOPE=22UC @100X

S&T 9/19, p54

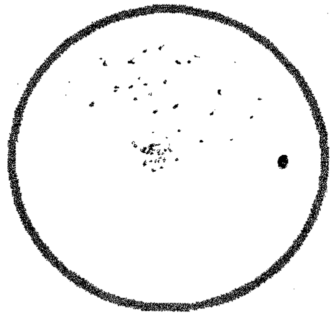
α Vul



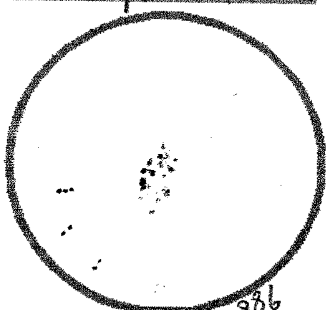
α

γ

N 6800

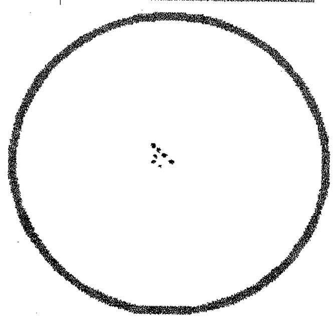


N6793



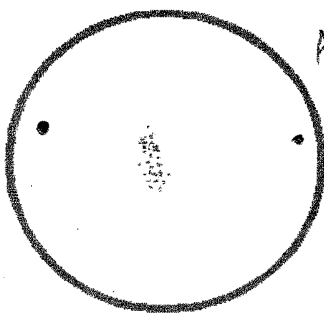
h886

Cr 399



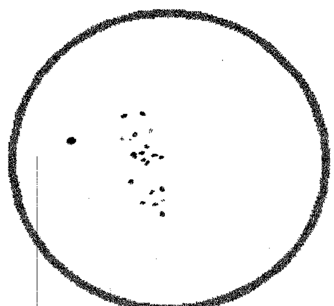
IX

N6802

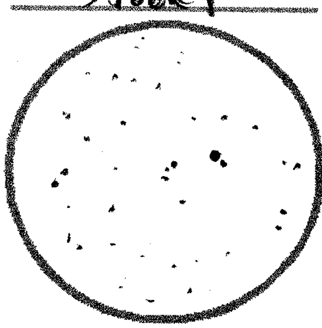


Almost resolved

N6823

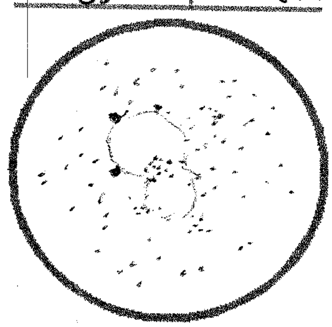


Stock 1



Σ2548
S148,1G

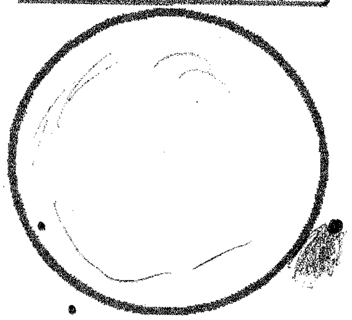
LDN 810 (Vul)



S&T 10/19
p58

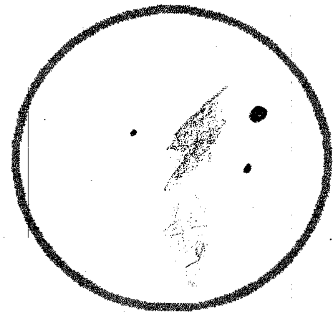
DATE= 9/26/2019 TIME= 4:15-4:50 UT SITE= OTSP C= I- S= II- SCOPE=22UC @2[redacted]X
100

B205 (Per)



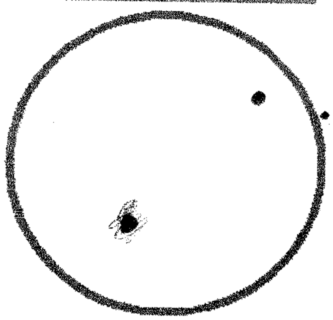
VVF

vdB13



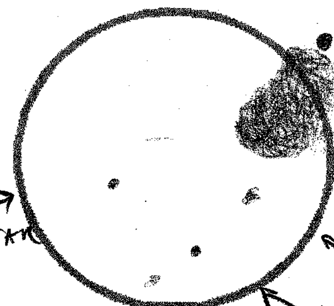
SUBTLE

vdB12



Or, star

NEAR N1333



STAR

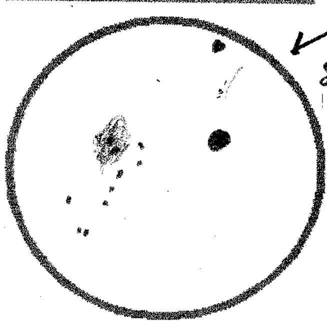
NEAR 1333
240x
see article

KNOT IN BAR

HH12

GN03.25.6

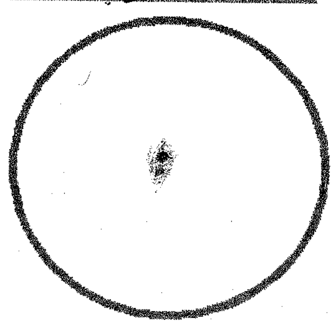
IC348 + Ced 21



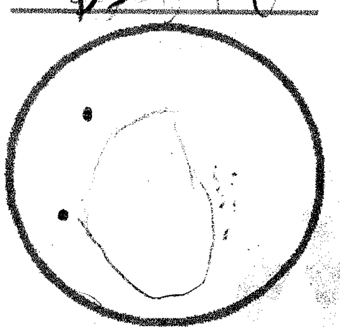
Ced 21
see
article

o Per

DG21

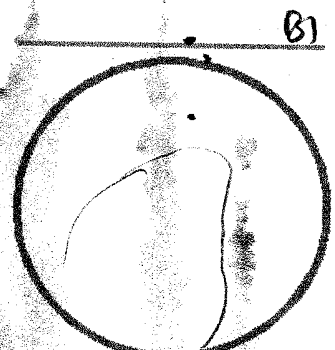


B3 (Per)



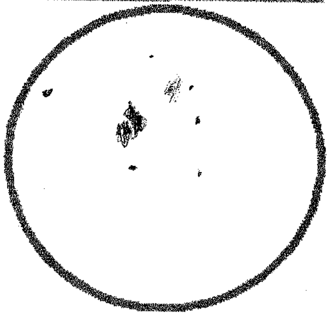
B4

B1 (Per)



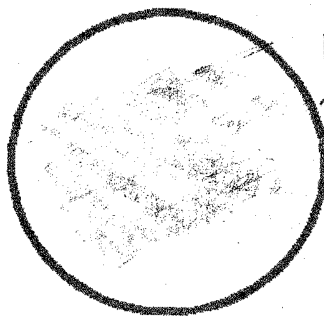
DATE= 9/26/2019 TIME= 5:00-5:40 UT SITE= OTSP C=I- S=II- SCOPE=22UC @2[redacted]X 100

N1579 + IC 2067



240x

N1499



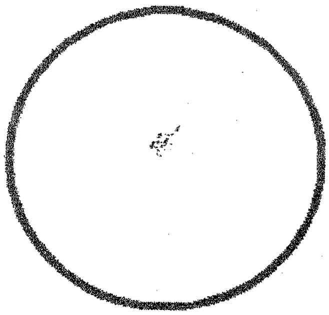
HINTS ONLY

TOO WIMPY

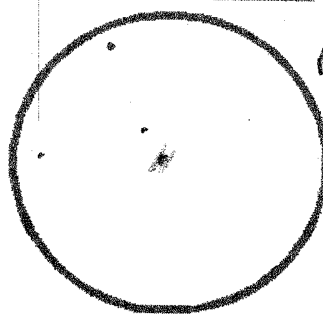
NO FILTER

SEE 10/19 p58 cont.

N 1624

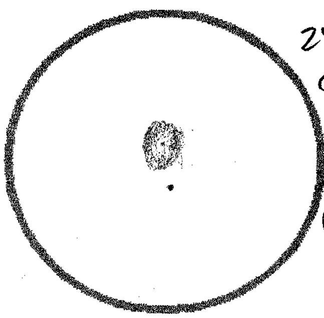


vdB24 (Per)



BARELY

M57



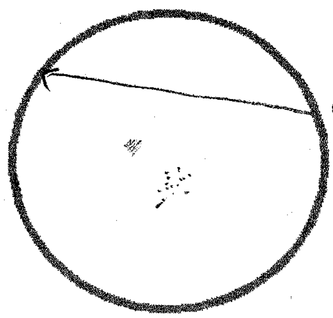
240x

CODY & I

BOTH P, SAME

(NOT ARTICLE)

Be 68 & NEB



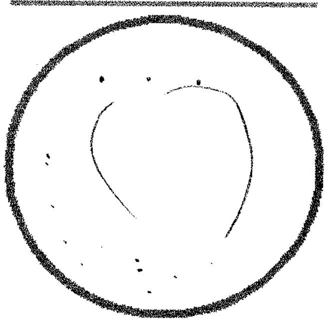
5:31:20 ~~[illegible]~~

NO ID

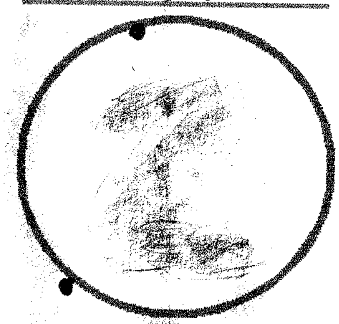
SEE 10/19 p58

SEE 10/19 p54

B20



IC 5070



"NA"

BEAK & SOME BODY

DATE= 9/26/2019 TIME= 5:45-6:45 UT SITE= OTSP C= I- S= II- SCOPE=22UC @2[illegible]X

100

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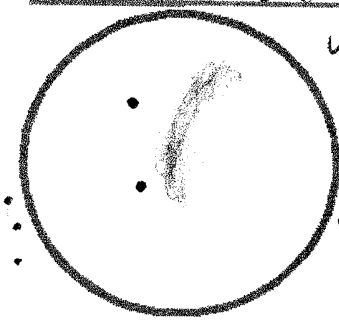
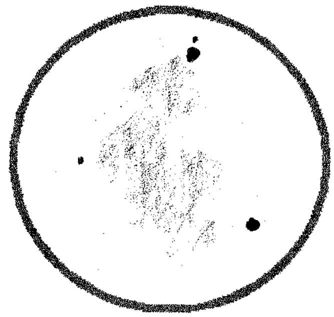
UNLABELED NEB (C94)

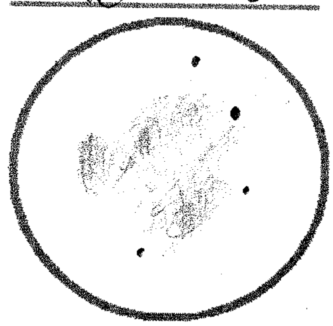


UNLABELED - ISLAND IN GULF OF MEXICO 2055+43.2

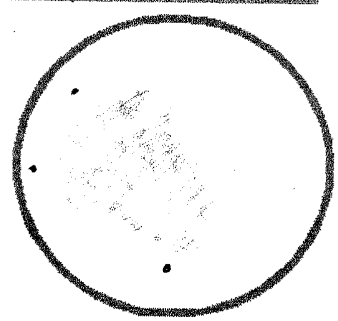
IC 5068 C



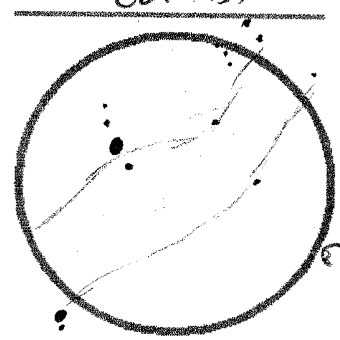
IC 5068



IC 5068 B

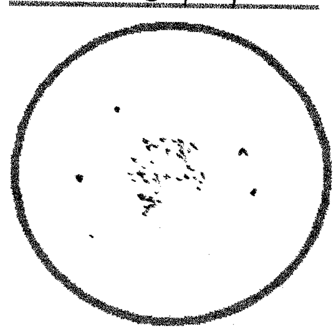


LDN 935



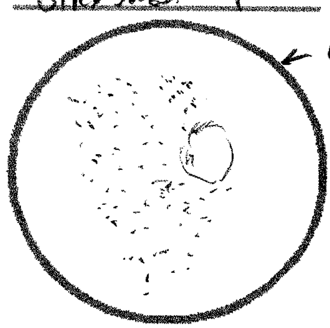
BAD SCALE 24 FLDS BUT TRACED OUT END TO END!

N 6997



+B353

"BIRD'S NEST" + N 6996

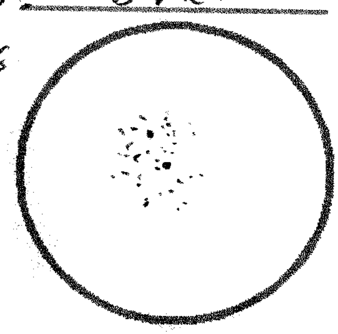


← 6996

← B353

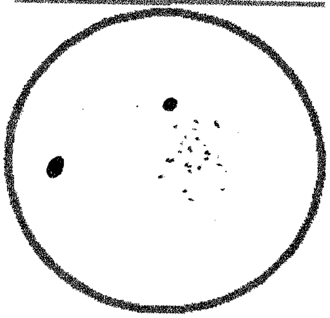
ARE 6996 & 6997 REVERSED? IN ARTICLE

Berk 1

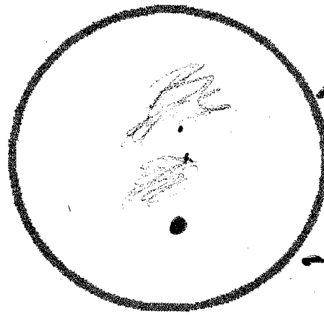


DATE= 9/26/2019 TIME= 6:45-7:45 UT SITE= OTSP C= I S= II SCOPE=22UC @~~240~~X 120

Cr 428



IC 5070 + N 7000



← 57 Cyg

← 56 Cyg

1X

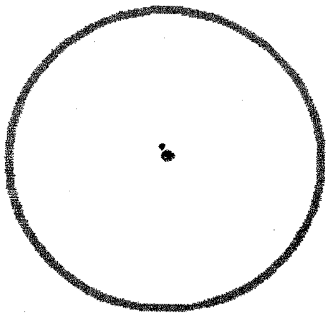
← α Cyg

♆ TRITON

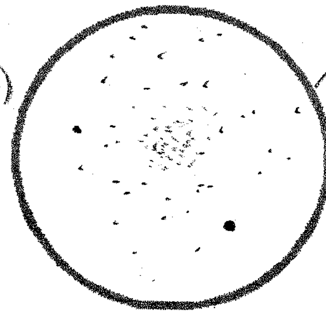
FOR REAL

~3:00 (FROM 240X EARLIER TONITE)

+4 others seen



Tr 37

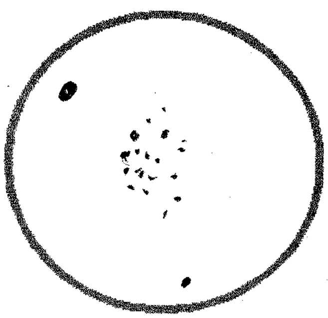


>1 fld

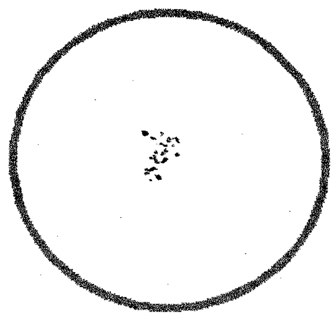
"core" shown

S&T CAT8 Cep 10/19 p 28

N 7160

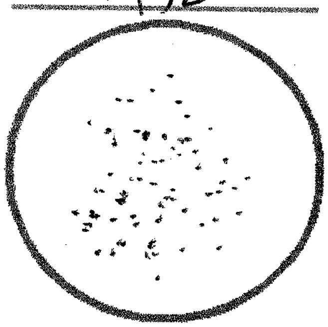


N 7235

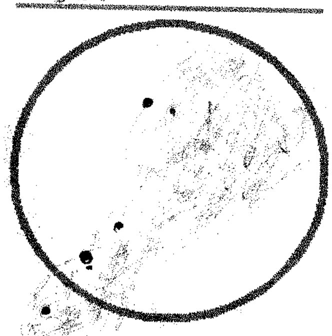


LITTLE DRAGON

M 52



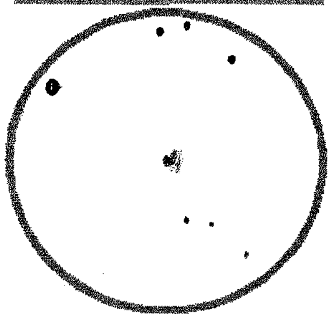
Sh 2-155



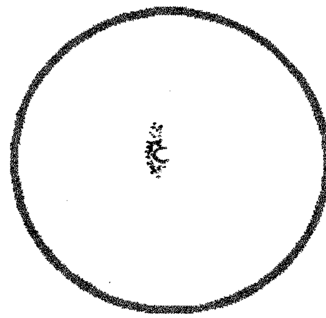
DATE= 9/26/2019 TIME=7:45-8:30 UT SITE= OTSP C=I S=II SCOPE=22UC @~~240~~X 100

S&T 10/19
p28
Cont

IC 1470

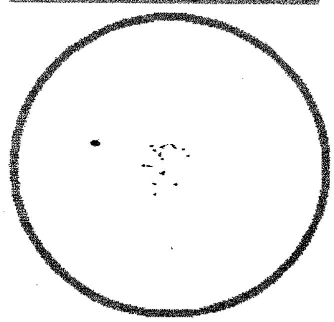


N 7510



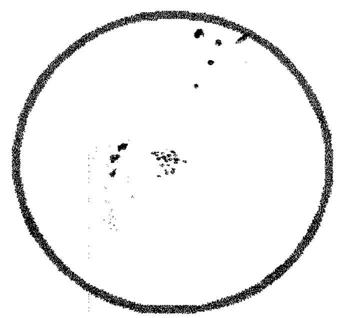
← HOLE

K19

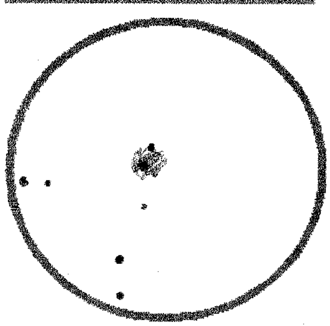


FLO→FLO→FLO
LAST 2

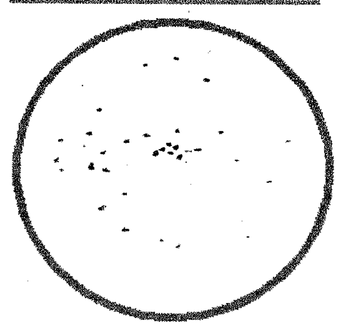
N 7419



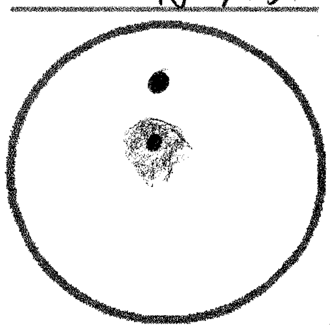
7538



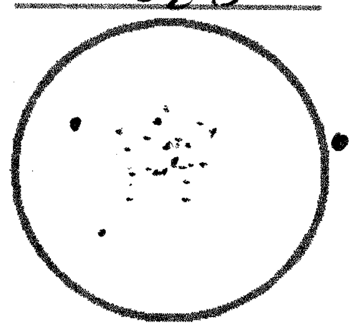
Mrk 50



N 7635



C243



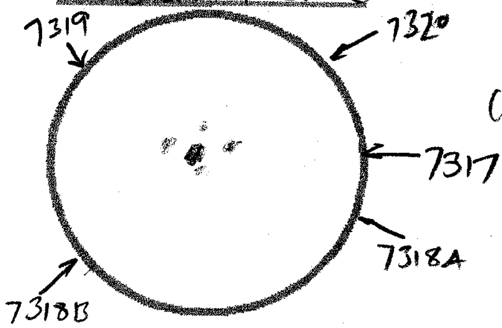
so near M52!

N 7317, 7318A/B
7319, 7320

Praepese 1x 5:30am (10:30 UT) but drowned by Zodiacal Light

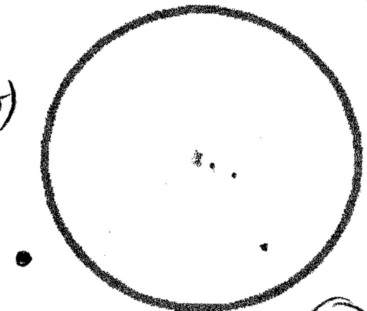
DATE= 9/26/2019 TIME= 8:30-10:30 UT SITE= OTSP C= II- S= III- SCOPE=22UC @~~24~~0X
100

Stephan's Quintet (Hickson 92) ↑ UGC 12 (???)



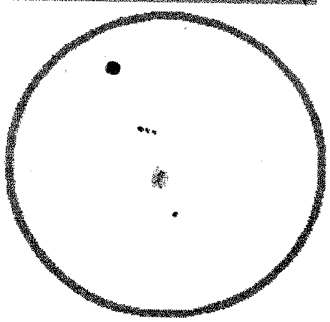
N1993 (H3)

8:35



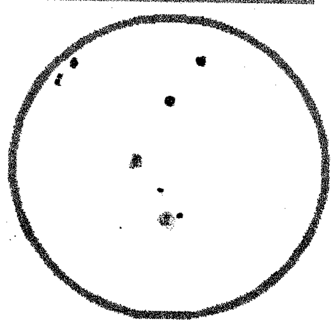
N 2684 (H3)

8:40



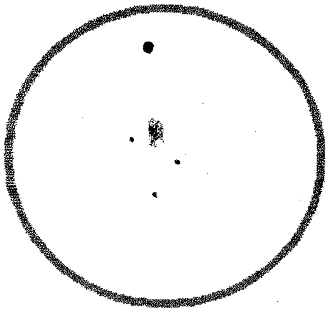
(H3) N 2692 + U 4671

8:45



N 2800 (H3)

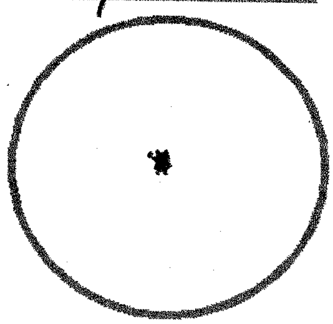
8:50



ρ ori

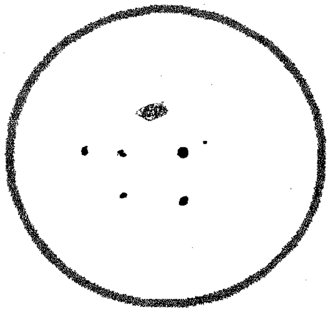
100x

8:55



N2076 (H3)

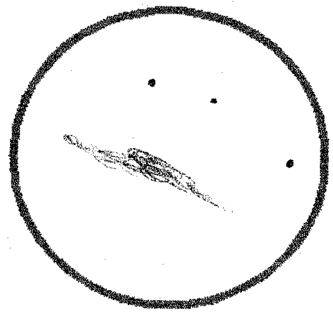
9:00



N 4236

9:05

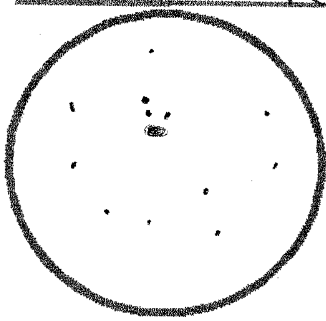
Cody's scope
20 mm
12" DOB f/5
75X



DATE= 9/26/2019 TIME= UT SITE= OTSP C= II S= II SCOPE=22UC @[redacted]X
100

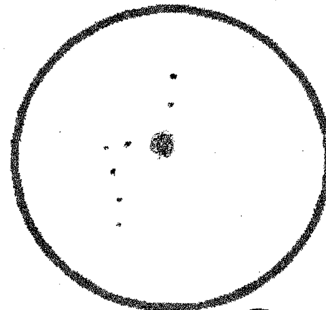
N 2089 (H3)

9:10

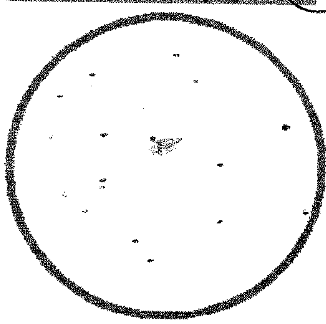


N2532 (H3)

9:15

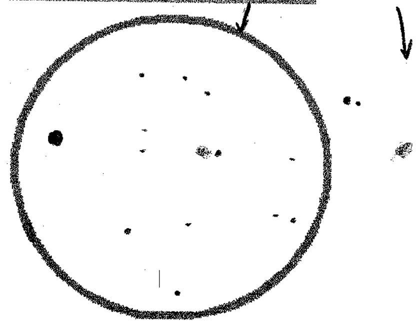


N 2649 (H3)



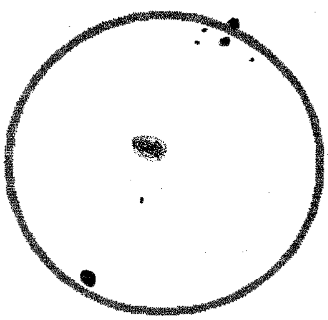
9:20

N 2691 (H3) + 2704 (H3)



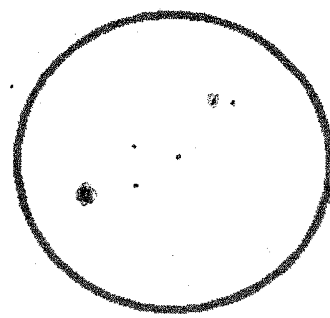
9:25

N 2756 (H3)



9:30

N2810 + A (H3)

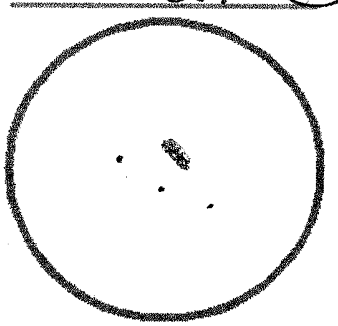


← AV=3815 mag!

9:35

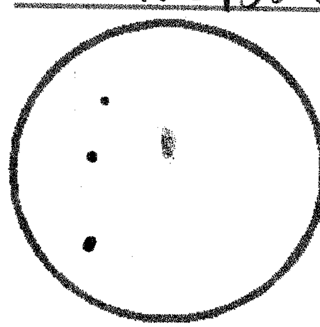
← From LIST 2810 IS THE H OBJECT

N 2870 (H3)



9:40

N 2938 (H3)

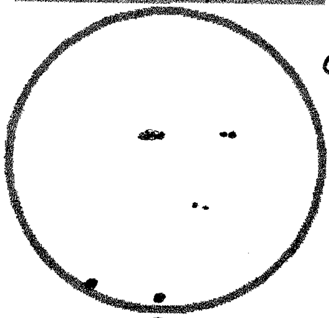


9:45

DATE= 9/26/2019 TIME= UT SITE= OTSP C= II S= II SCOPE=22UC @2[redacted]X
100

N2481

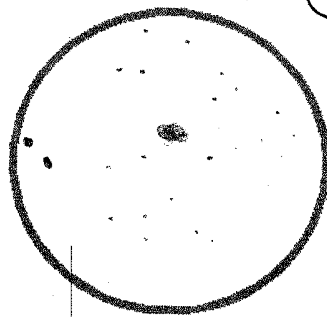
(H3)



9:50

N2619

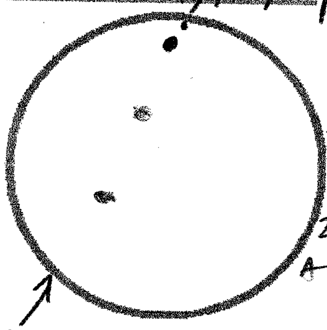
(H3)



9:55

(H3)

2719/A /24



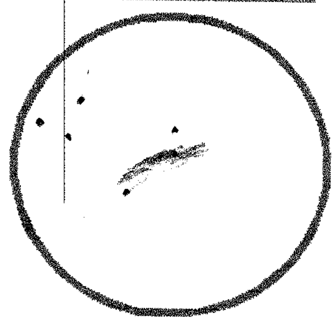
10:00

← 2724

2719A LIKE A FUZZY STAR

A

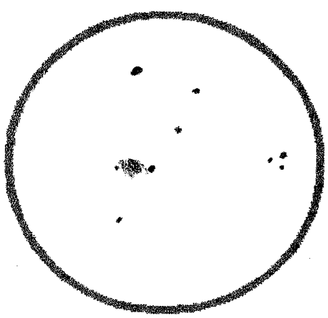
N 2683



10:05
SEEMS CURVED

N2759

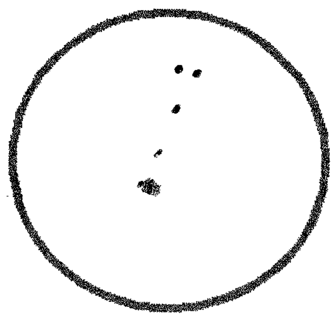
(H3)



10:10

N2832

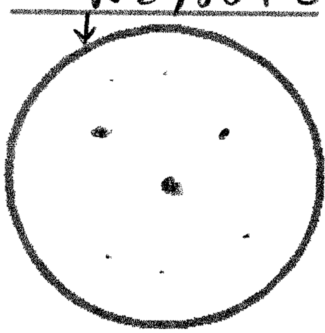
(H3)



10:15

(H3)

N2780 + 2778

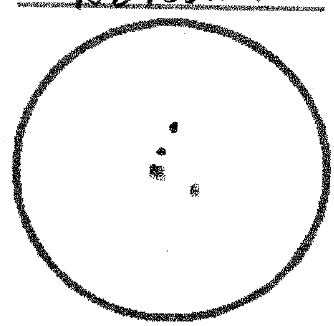


10:20

← 2778

(H3)

N2783A + 2783

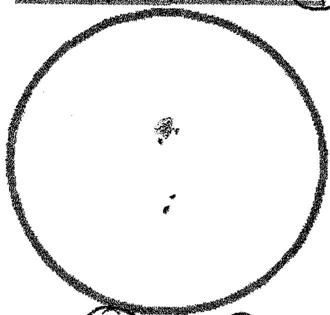


10:25

DATE= 9/26/2019 TIME= UT SITE= OTSP C= I S= II SCOPE=22UC @2[redacted]X 200

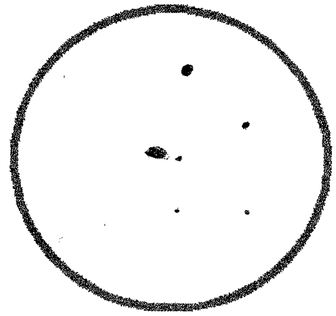
N 2838 H3

10:30



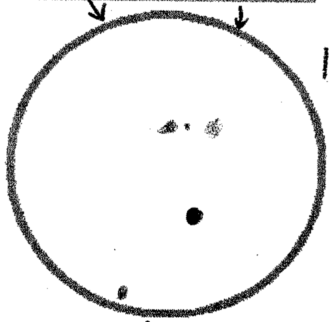
N 2844 H3

10:35



H3 H3
N 2852+2853+ 2844 again

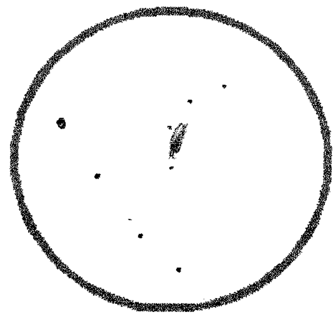
10:40



2844

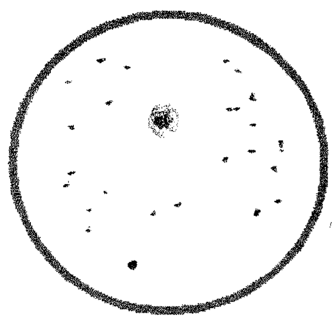
N 2796 H3

10:45



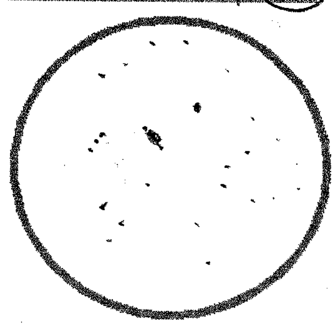
N 2073 H3

10:50



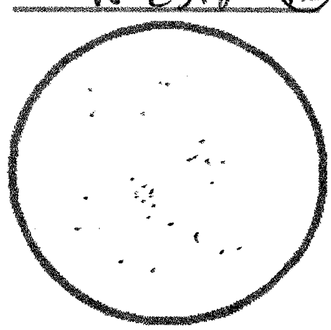
N 2124 H3

10:55



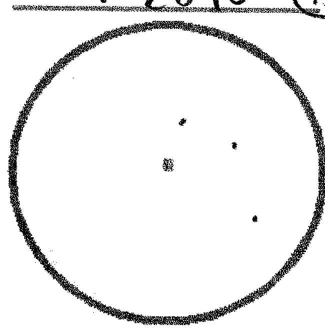
N 2318 H3

11:00



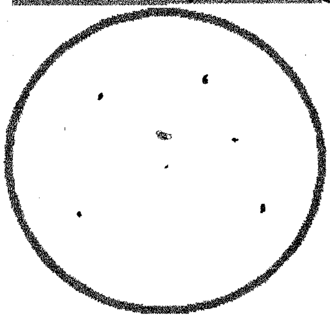
N 2840 H3

11:05



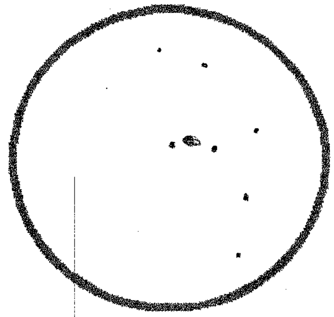
DATE= 9/26/2019 TIME= UT SITE= OTSP C= I S= II SCOPE=22UC @~~[illegible]~~X 100

N2918 (H3)



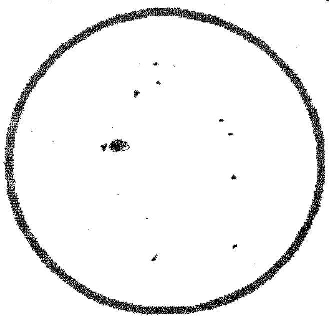
11:10

N2893 (H3)



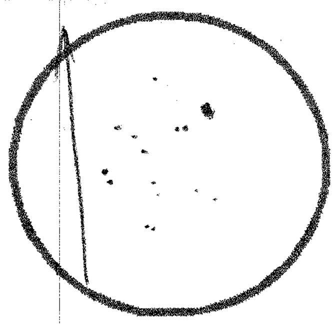
11:20

N2965 (H3)



11:25

N2908 (H3)

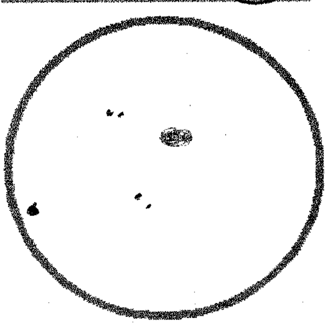


11:30:30

28421 ∞
SAT
943.15
+79.7

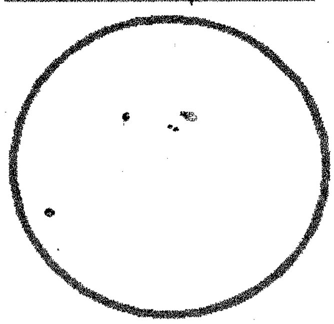
11:30

N2977 (H3)



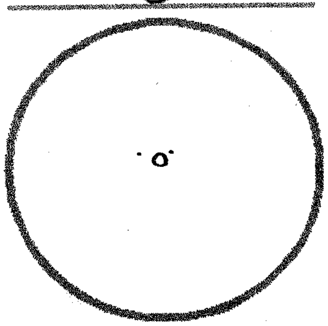
11:35

N2963 (H3)



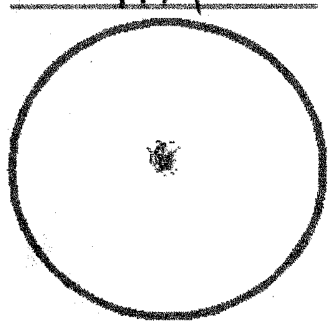
11:38

♅



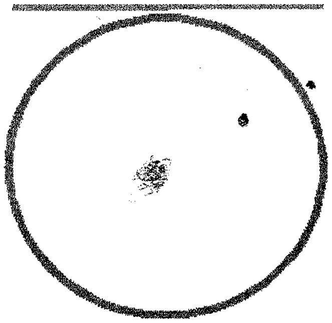
11:41 UT
240x

M79



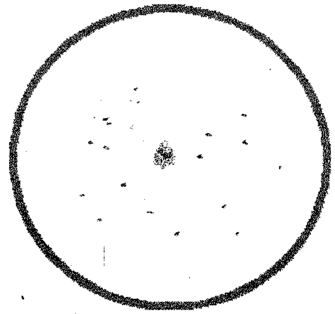
11:45

N 7743



NEAR

Comet Africano

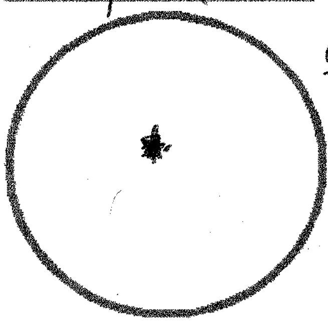


100

C/2018 W2 (Africano)

2:45 UT

η Dra



AST 10/19

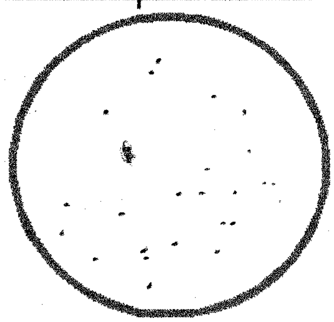
530 pm

or & w

v. diff.

240x

N 6223

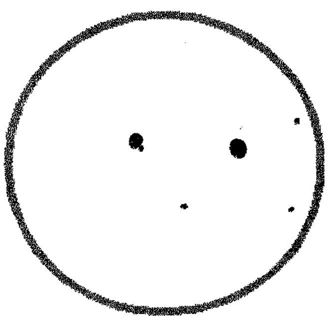


AST

10/19

p44

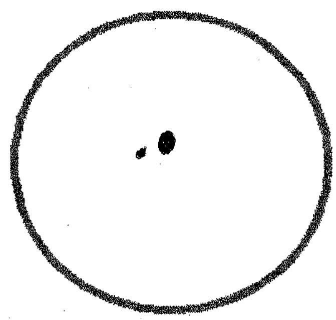
Σ2155 & VW Dra



Gold & sl. b

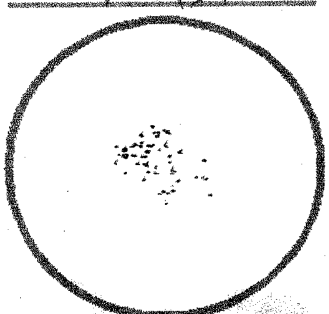
VW or

o Dra

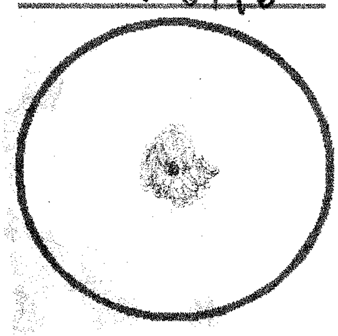


Gold & sl. b

N 6939

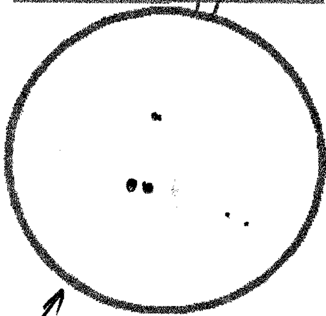


N6946



DATE= 9/27/2019 TIME= 3:15-4:00 UT SITE= OTSP C=II- S=II SCOPE=22UC @~~240~~ 100X

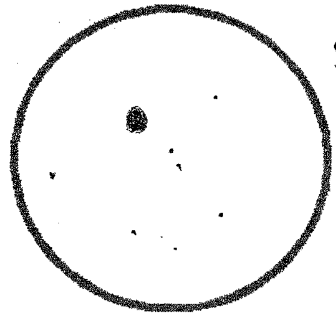
16 Cyg + Σ2486



see article to ID

16

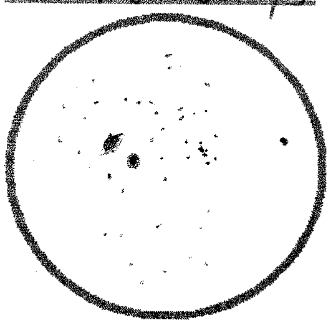
N 6826



Still blinks!

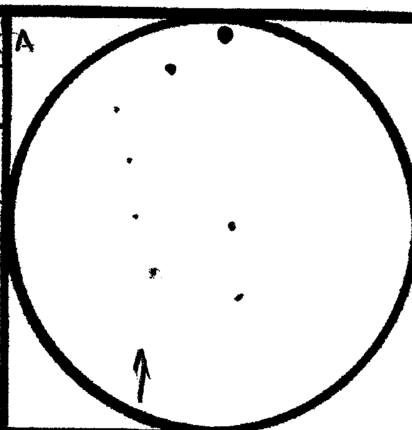
Ast 10/19 p44 cont.

NGC 6702/3



HERSCHEL OBSERVATIONS

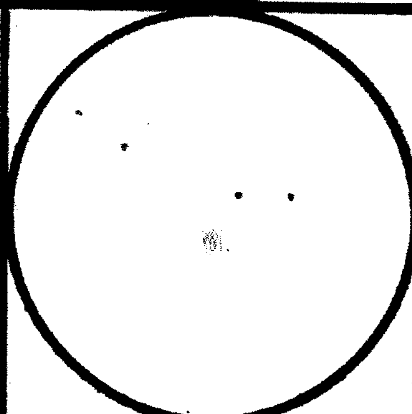
NGC	SWEET PEA
CONST	DRA
DATE	11/3/19
TIME	1:10
SITE	ACT
SEEING	II
TRANS	II
INSTR	22UC
EYEPIECE	10 E
POWER	240



COMMENTS
TINY DISK
NO COLOR 18h44.7 +65°12'
O3 NO HELP

MISC
PN

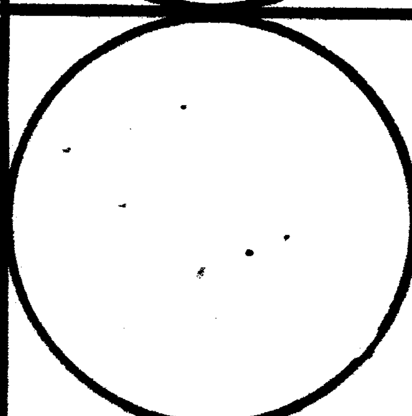
NGC	5744
CONST	UMi
DATE	〃
TIME	1:20
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	24
POWER	



COMMENTS
VF & SMALL

H3

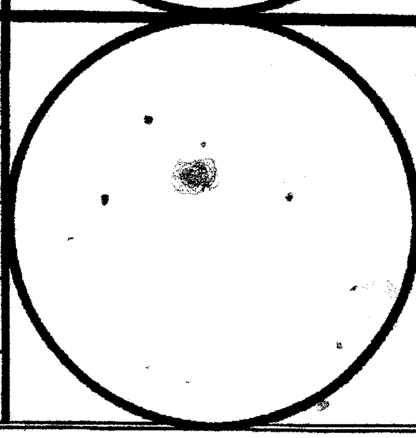
NGC	5034
CONST	UMi
DATE	〃
TIME	1:30
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	24
POWER	



COMMENTS
TINY!
← JUST A NUC

H3

NGC	524
CONST	
DATE	〃
TIME	1:45
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	10
POWER	



COMMENTS
NICE, LARGE NUC, NOT
MUCH ON OUTER BOLTS

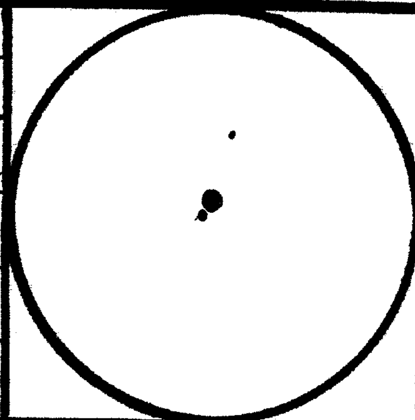
S&T
12/19
p56

HERSCHEL OBSERVATIONS

N

NGC	Σ 982	SITE	ACT	SEEING	II	TRANS	II
CONST	GEM	INSTR	22UC	EYEPIECE	24	POWER	100
DATE	11/20/19						
TIME	3:00						

E



COMMENTS

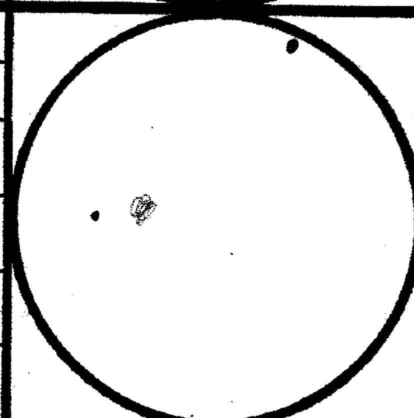
Y & green!

BEAUTIFUL PAIR W/ COMES

DIM & FAR

MSOP

NGC	3061	SITE	↓	SEEING	〃	TRANS	〃
CONST		INSTR	↓	EYEPIECE	10	POWER	240
DATE	〃						
TIME	3:30						

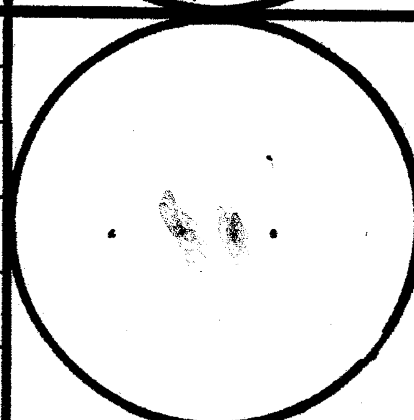


COMMENTS

AV=2 NO DETAIL

H3

NGC	3065/66	SITE	↓	SEEING	↓	TRANS	
CONST		INSTR	↓	EYEPIECE	↓	POWER	
DATE	〃						
TIME	3:45						



COMMENTS

BEAUTIFUL FAINT PAIR

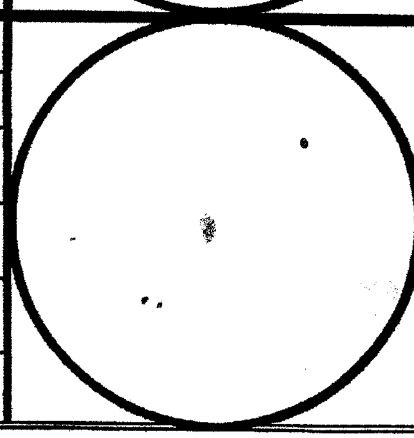
MISLABELED IN HERSCHEL

SOCIETY LIST AS 3066/

3066

H3

NGC	3057	SITE	↓	SEEING	↓	TRANS	
CONST		INSTR	↓	EYEPIECE	↓	POWER	
DATE	〃						
TIME	4:00						



COMMENTS

SMALL & DIM

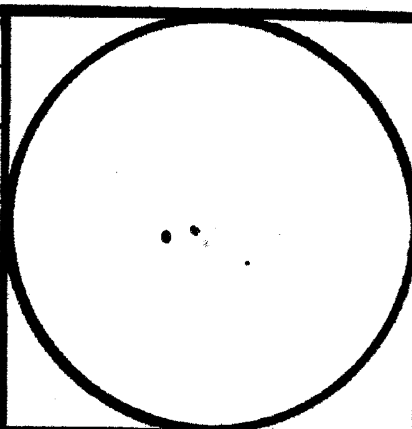
H3

φ Psc 240x α Psc 240x M74

676

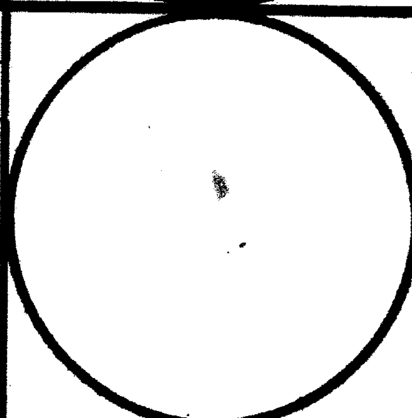
HERSCHEL OBSERVATIONS

NGC	ψ' Psc	
CONST		
DATE	11/25/19	
TIME	5:00	
SITE	ACT	
SEEING	II	
TRANS	II	
INSTR	22UC	
EYEPIECE	24	
POWER	100	



COMMENTS
THIS & ↑
S&T 12/19
p 56

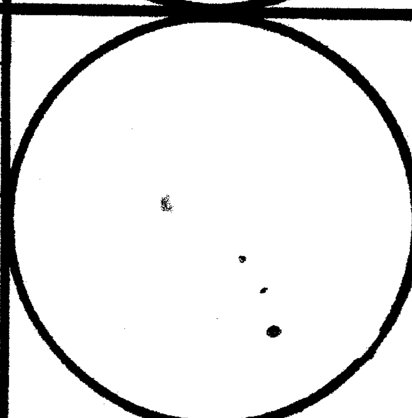
NGC	3053	
CONST		
DATE	"	
TIME	8:00	
SITE	↓	
SEEING	"	
TRANS	"	
INSTR	↓	
EYEPIECE	10	
POWER	240	



COMMENTS
ELONG, S. FT

H3

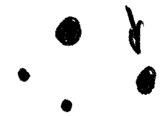
NGC	2984	
CONST		
DATE	"	
TIME	8:40	
SITE	↓	
SEEING	↓	
TRANS		
INSTR	↓	
EYEPIECE	↓	
POWER		



COMMENTS
V FT & SM

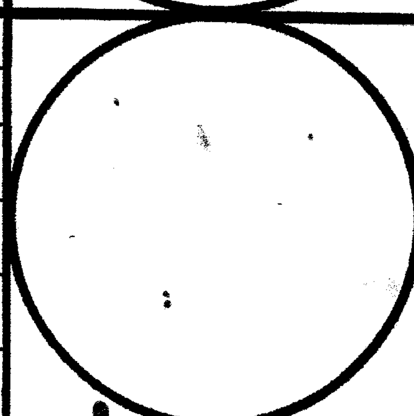
H3

R >



R 480

NGC	3728	
CONST		
DATE	11/25/19	
TIME	9:20	
SITE	↓	
SEEING	↘	
TRANS		
INSTR	↓	
EYEPIECE	10	
POWER		



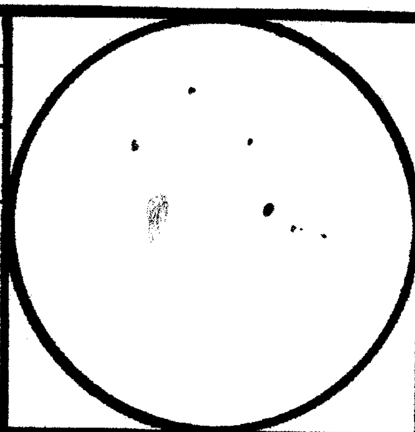
COMMENTS
V FT, SL, ELONG

H3

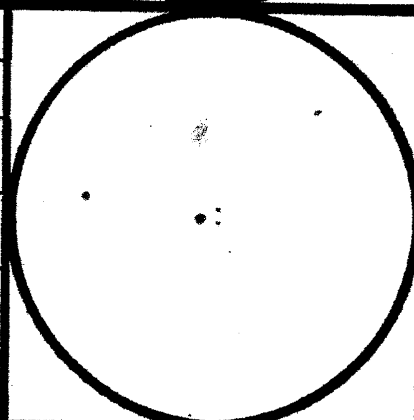
HERSCHEL OBSERVATIONS

H3

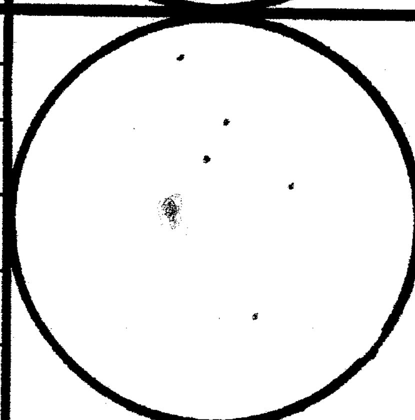
NGC 2979	SITE ACT	SEEING II / TRANS II
CONST	INSTR 22UC	EYEPIECE 10 / POWER 240
DATE 11/25/19	COMMENTS	
TIME 9:30	ELONG, FT	



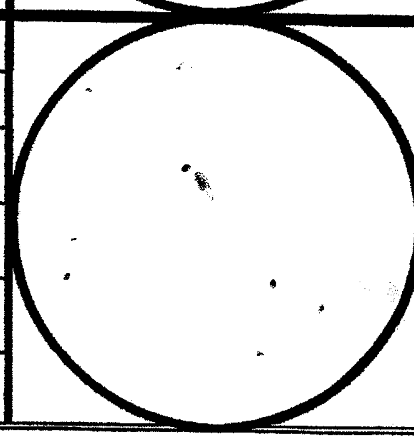
NGC 3356	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE 10 / POWER
DATE "	COMMENTS	
TIME 9:40	SMALL & FT	



NGC 3691	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE 10 / POWER
DATE "	COMMENTS	
TIME 9:45	ROUND, SOME ADD'L TO NUC	



NGC 3710	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 9:50	SMALL, ELONG	



Last of D Pag

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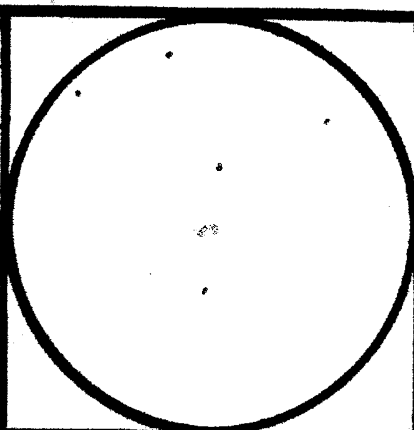
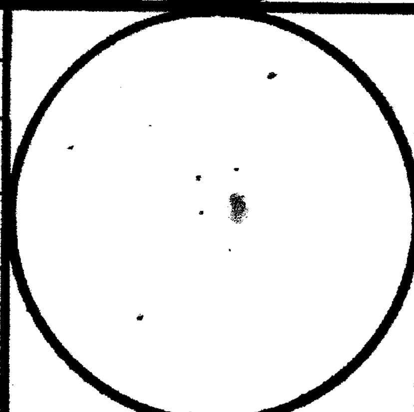
HERSCHEL OBSERVATIONS

NGC	3088A
CONST	
DATE	2/29/20
TIME	2:00 UT



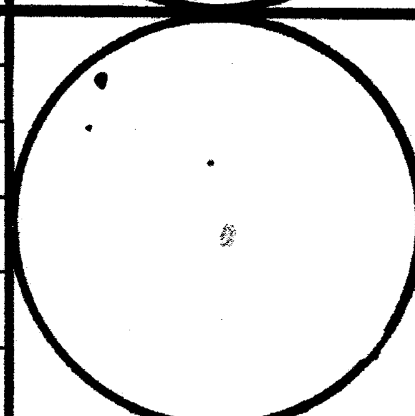
SITE	ACT	SEEING II	TRANS II
INSTR	22UC	EYEPIECE 7.0	POWER 240
COMMENTS			

NGC	3248
CONST	
DATE	"
TIME	205



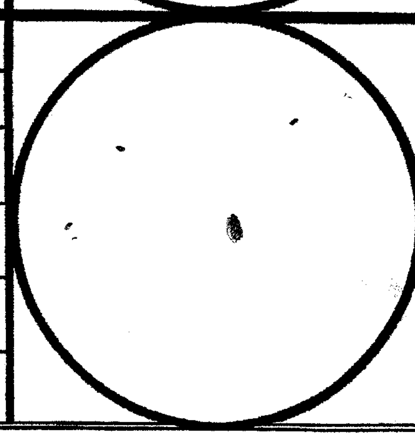
SITE	↓	SEEING ↓	TRANS
INSTR	↓	EYEPIECE ↓	POWER
COMMENTS			

NGC	3270
CONST	
DATE	"
TIME	210



SITE	↓	SEEING ↓	TRANS
INSTR	↓	EYEPIECE ↓	POWER
COMMENTS			

NGC	3327
CONST	
DATE	"
TIME	220



SITE	↓	SEEING	TRANS ↓
INSTR	↓	EYEPIECE	POWER
COMMENTS			

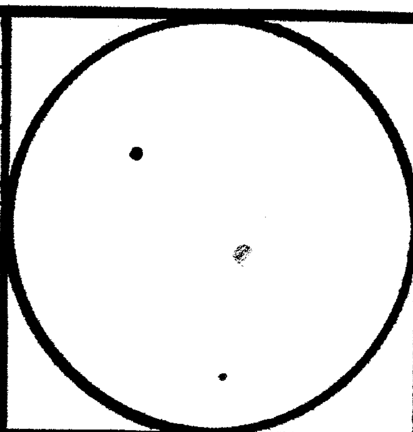
HERSCHEL OBSERVATIONS

NGC 3451

CONST

DATE 2/29/20

TIME 230



SITE ACT | SEEING II | TRANS II

INSTR 22UC | EYEPIECE 10 | POWER 240

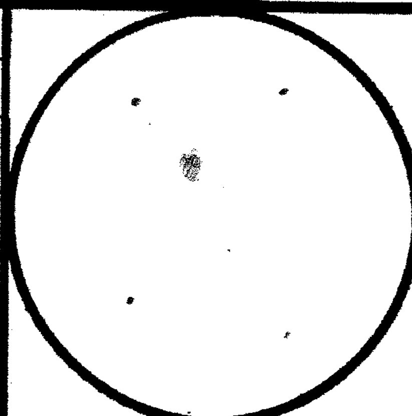
COMMENTS

NGC 3475

CONST

DATE "

TIME 235



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

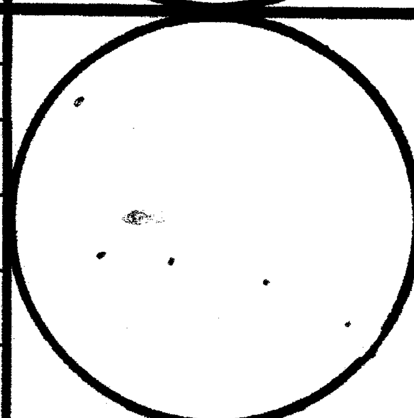
COMMENTS

NGC 3701

CONST

DATE "

TIME 245



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

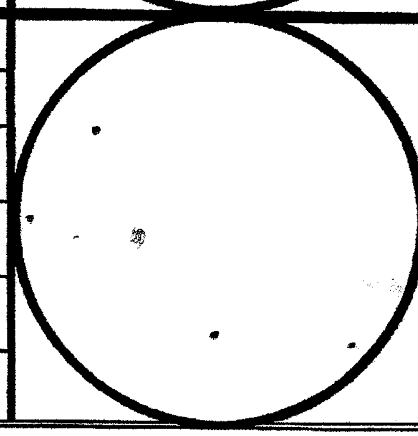
COMMENTS

NGC 3658

CONST

DATE "

TIME 255



SITE | SEEING | TRANS

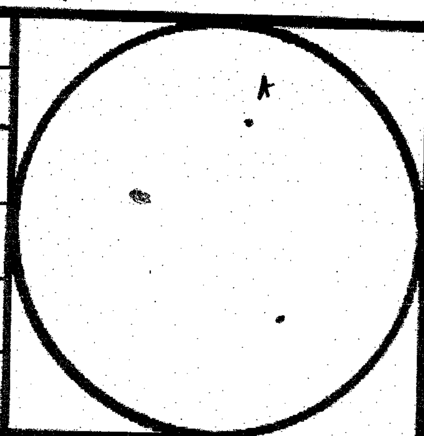
INSTR | EYEPIECE | POWER

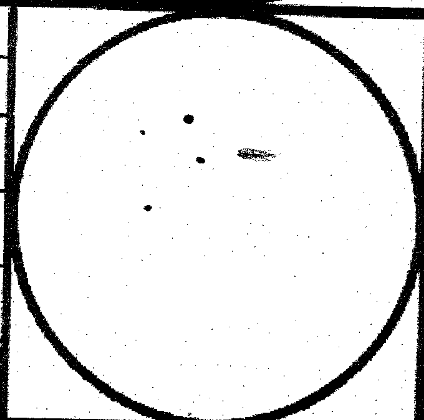
COMMENTS

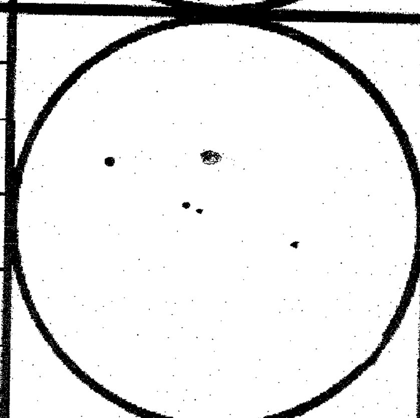
3:28:44

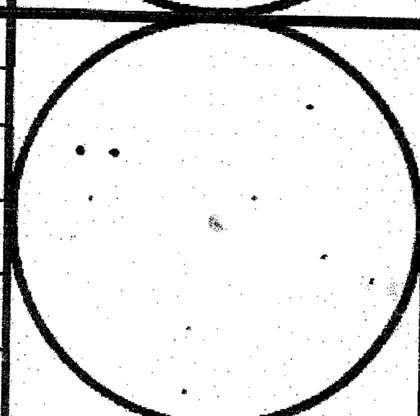
1140 +24.1 43003

HERSCHEL OBSERVATIONS

NGC 3798		SITE ACT	SEEING II	TRANS II
CONST		INSTR 22UC	EYEPIECE 10	POWER 240
DATE 2/29/20		COMMENTS		
TIME 330				

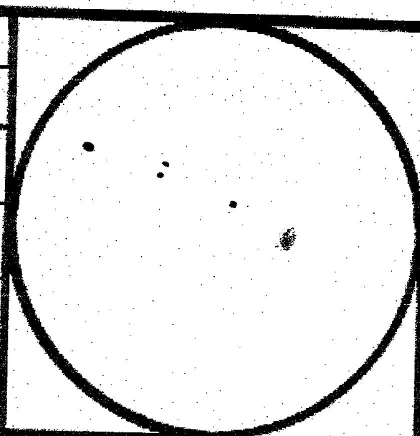
NGC 3800		SITE	SEEING	TRANS
CONST		INSTR	EYEPIECE	POWER
DATE 〃		COMMENTS		
TIME 310				

NGC 3808		SITE	SEEING	TRANS
CONST		INSTR	EYEPIECE	POWER
DATE 〃		COMMENTS		
TIME 320				

NGC 3806		SITE	SEEING	TRANS
CONST		INSTR	EYEPIECE	POWER
DATE 〃		COMMENTS		
TIME 325				

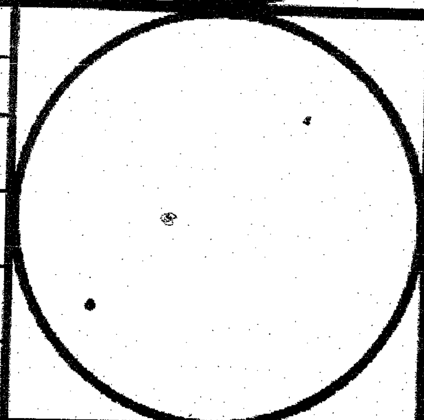
HERSCHEL OBSERVATIONS

NGC 3821
CONST
DATE 2/29/20
TIME 335



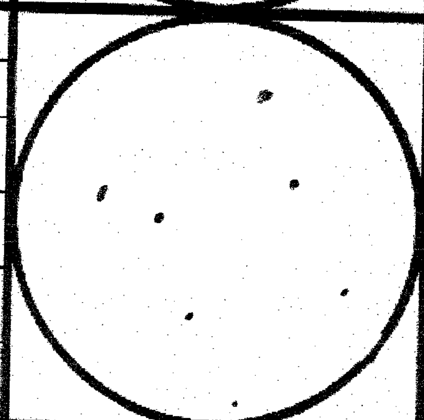
SITE ACT
INSTR 22UC
SEEING II
TRANS II
EYEPIECE 10
POWER 240
COMMENTS

NGC 3832
CONST
DATE "
TIME 340



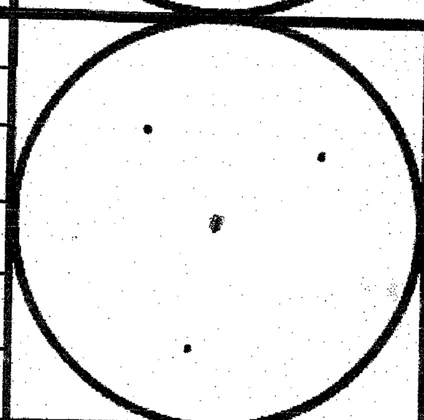
SITE
INSTR
SEEING
TRANS
EYEPIECE
POWER
COMMENTS

NGC 4002/2
CONST
DATE "
TIME 350



SITE
INSTR
SEEING
TRANS
EYEPIECE
POWER
COMMENTS

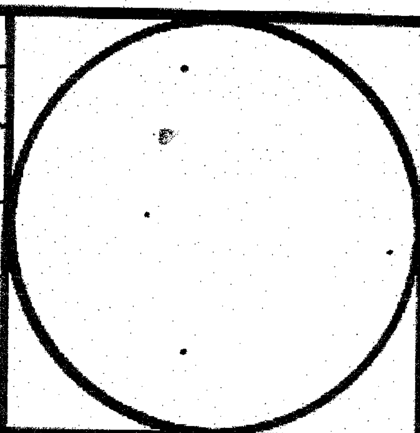
NGC 4032
CONST
DATE "
TIME 400



SITE
INSTR
SEEING
TRANS
EYEPIECE
POWER
COMMENTS

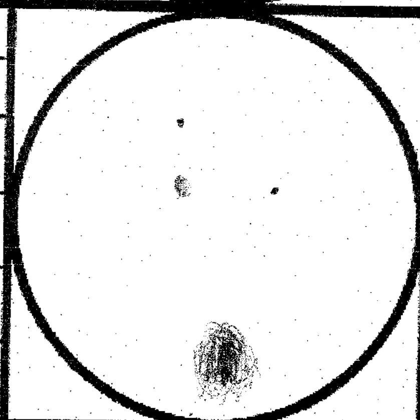
HERSCHEL OBSERVATIONS

NGC 4126
CONST
DATE 2/29/20
TIME 410



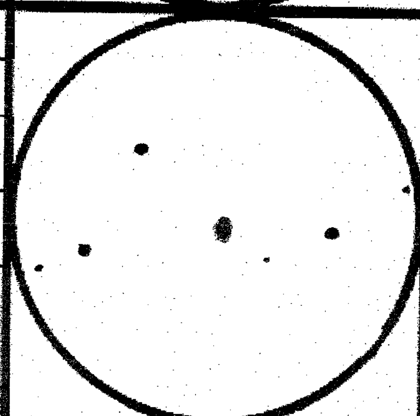
SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS

NGC 4328
CONST
DATE 2/29/20
TIME 420



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
M100

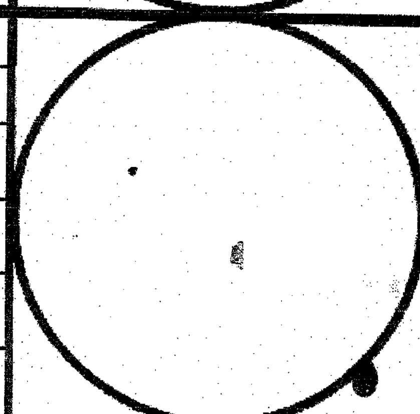
NGC 4378
CONST
DATE ″
TIME 425



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

M105
#3

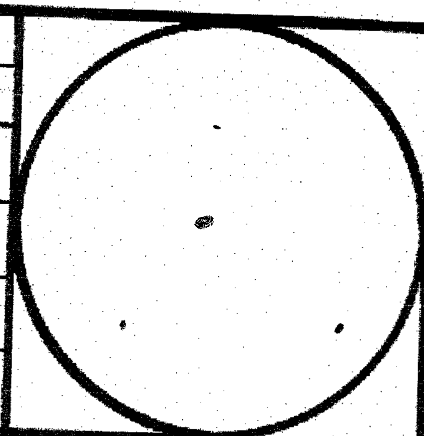
NGC 4376
CONST
DATE ″
TIME 430



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

HERSCHEL OBSERVATIONS

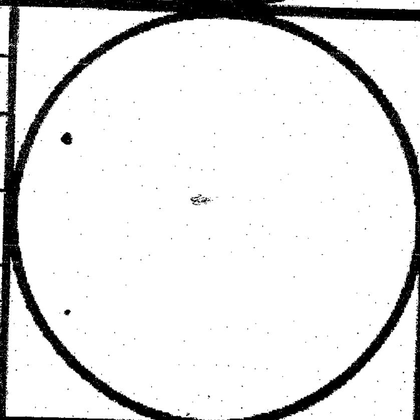
NGC 4418
CONST



SITE ACT
SEEING II- TRANS II
INSTR 22UC
EYEPIECE 10 POWER 240
COMMENTS

DATE 2/29/20
TIME 440

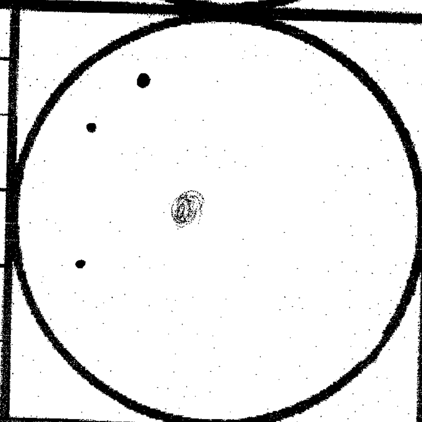
NGC 4423
CONST



SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

DATE 〃
TIME 445

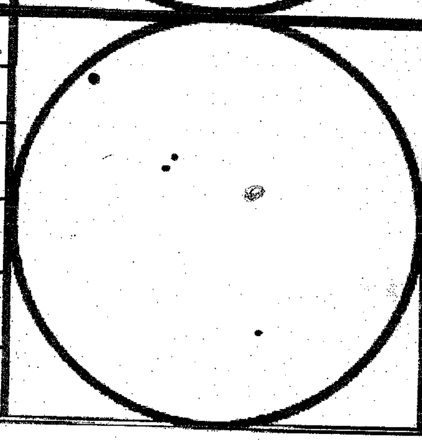
NGC 4430
CONST



SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

DATE 〃
TIME 455

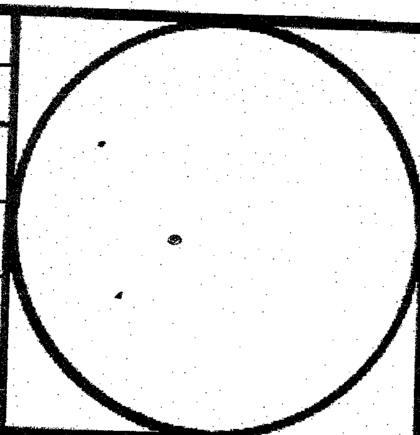
NGC 4453
CONST



SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

DATE 〃
TIME 500

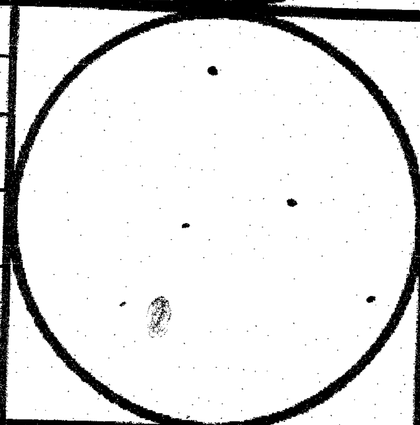
NGC	4588
CONST	
DATE	2/29/20
TIME	510



SITE	ACT	SEEING	II -
		TRANS	II
INSTR	22UC	EYEPIECE	10
		POWER	240

COMMENTS

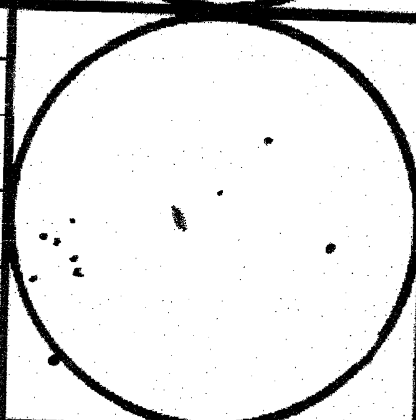
NGC	4591
CONST	
DATE	〃
TIME	515



SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

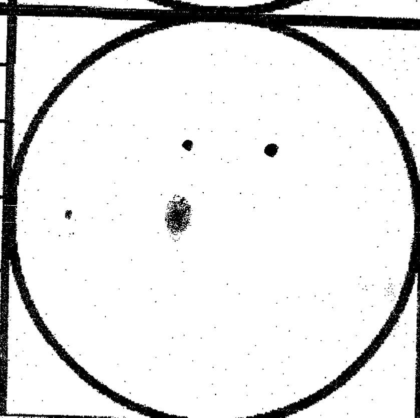
NGC	4599
CONST	
DATE	〃
TIME	525



SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

COMMENTS

NGC	4600
CONST	
DATE	〃
TIME	530

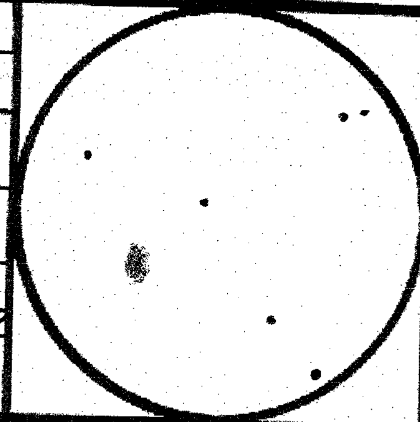


SITE		SEEING	
		TRANS	
INSTR		EYEPIECE	
		POWER	

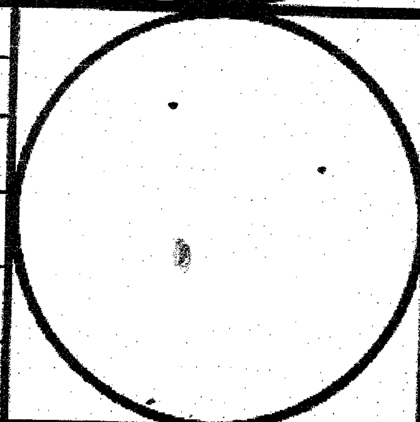
COMMENTS

HERSCHEL OBSERVATIONS

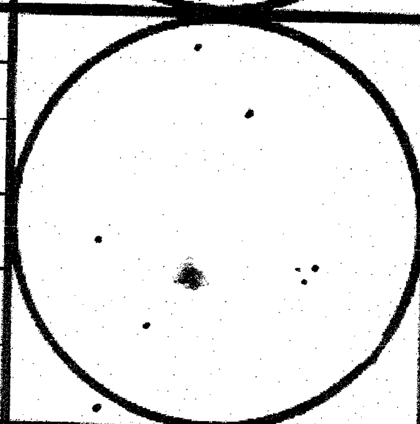
NGC 4630	SITE ACT	SEEING II- · TRANS II
CONST	INSTR 22UC	EYEPIECE 10 · POWER 240
DATE 2/29/1	COMMENTS	
TIME 535		



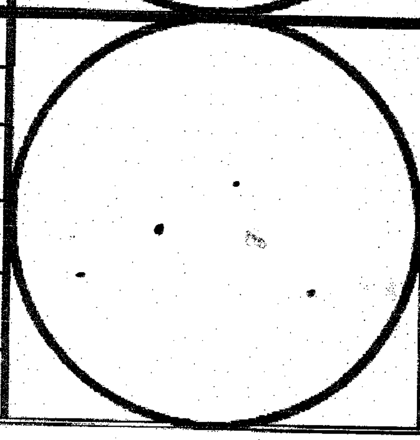
NGC 4690	SITE ″	SEEING ″ · TRANS ″
CONST	INSTR ″	EYEPIECE ″ · POWER ″
DATE ″	COMMENTS	
TIME 545		



NGC 4701	SITE ″	SEEING ″ · TRANS ″
CONST	INSTR ″	EYEPIECE ″ · POWER ″
DATE ″	COMMENTS	
TIME 535		



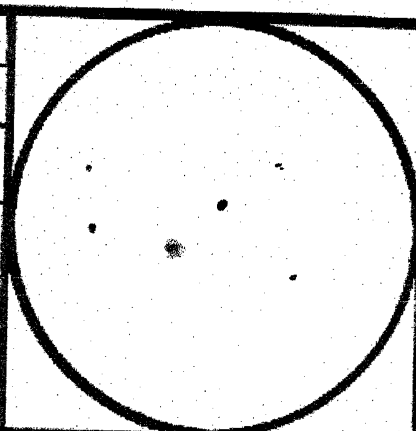
NGC 4705	SITE ″	SEEING ″ · TRANS ″
CONST	INSTR ″	EYEPIECE ″ · POWER ″
DATE ″	COMMENTS	
TIME 600		



? : 020 1x 4m see 3/2 obs
5m → 1x
● α H/a

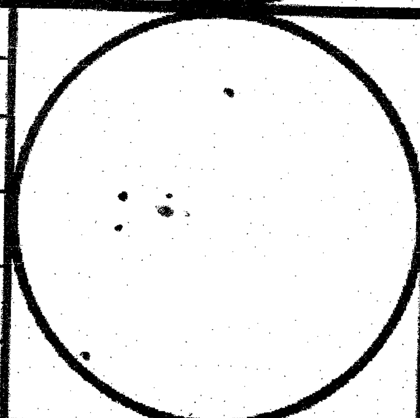
HERSCHEL OBSERVATIONS

NGC 4720
CONST
DATE 2/29/20
TIME 610



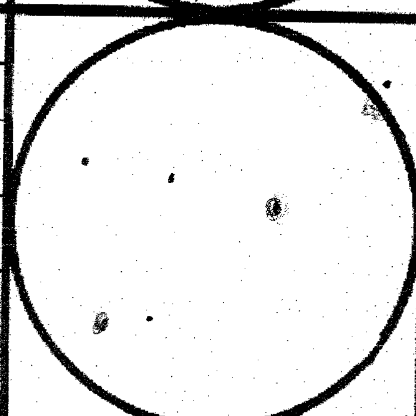
SITE Acr
SEEING II TRANS II
INSTR 22UC
EYEPIECE 10 POWER 240
COMMENTS

NGC 4843
CONST
DATE "
TIME 615



SITE ↓
SEEING TRANS
INSTR ↓
EYEPIECE POWER ↓
COMMENTS

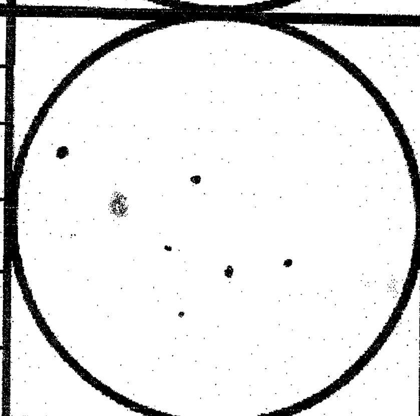
NGC 4890 +
CONST
DATE "
TIME 625



SITE ↓
SEEING ↓ TRANS
INSTR ↓
EYEPIECE ↓ POWER
COMMENTS
← 4918
← 4915 2 Fuzs
← 4890

4915 & 4918 NOT H3

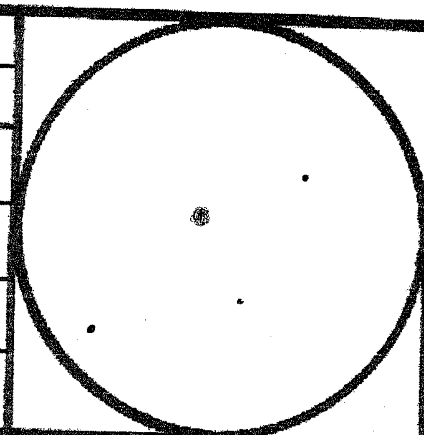
NGC 4989
CONST
DATE "
TIME 630



SITE ↓
SEEING TRANS
INSTR ↓
EYEPIECE ↓ POWER
COMMENTS
< ?

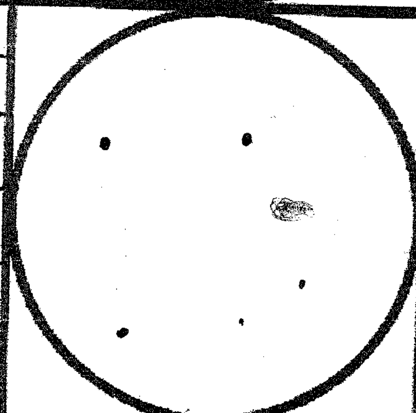
HERSCHEL OBSERVATIONS

NGC 4344
CONST
DATE 3/26/20
TIME 2:00



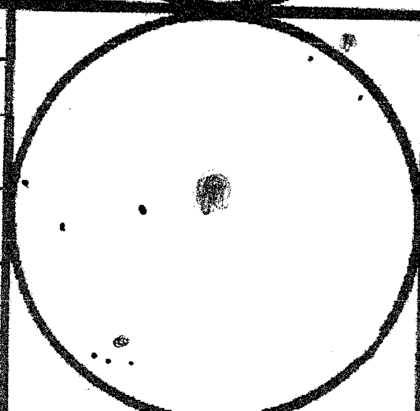
SITE ACT | SEEING III | TRANS III
INSTR 22 | EYEPIECE 10 | POWER 240
COMMENTS
ROUND, NOT DIM

NGC 4405
CONST
DATE 〃
TIME 2:10



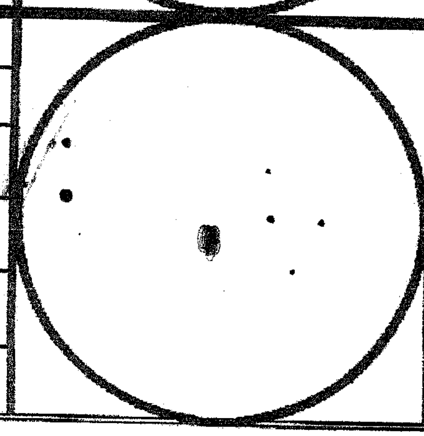
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
ELONG, HINT OF NUC

NGC 4431, 36, 40
CONST
DATE 〃
TIME 2:20



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
← MED SIZE, NUC,
SMALL ELLIP.
← OVAL, NO DETAIL

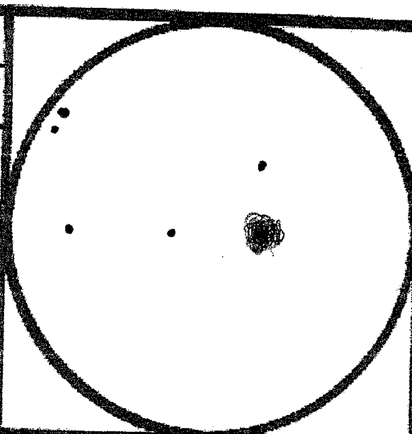
NGC 4489
CONST
DATE 〃
TIME 2:30



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
FAIRLY BRIGHT, ELONG,
HINT OF DISK

HERSCHEL OBSERVATIONS

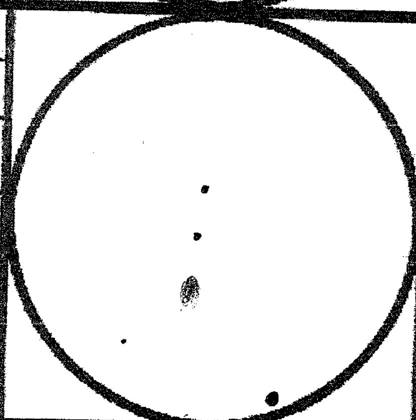
NGC 4491	SITE AG	SEEING II
CONST	INSTR 22	TRANS II
DATE 3/26/20	EYEPIECE 10	POWER 240
TIME 2:40		



COMMENTS

LARGE, BRIGHT, LG NUC
w/ OVAL GLOW

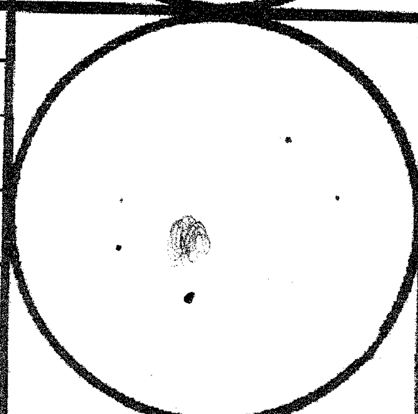
NGC 4497	SITE ↓	SEEING
CONST	INSTR ↓	TRANS ↓
DATE "	EYEPIECE	POWER
TIME 3:00		



COMMENTS

SM, ELONG, OVAL

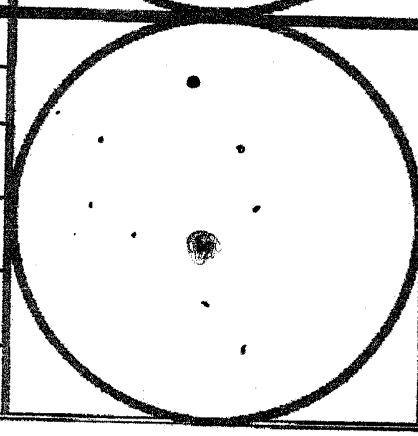
NGC 4506	SITE ↓	SEEING
CONST	INSTR ↓	TRANS
DATE "	EYEPIECE ↓	POWER
TIME 3:10		



COMMENTS

LG, DIM, FACE-ON ?

NGC 4528	SITE ↓	SEEING
CONST	INSTR ↓	TRANS
DATE "	EYEPIECE ↓	POWER
TIME 3:20		

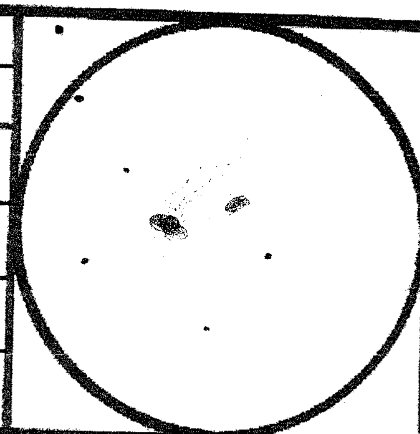


COMMENTS

MD SIZE & BRIGHTNESS
NUC

HERSCHEL OBSERVATIONS

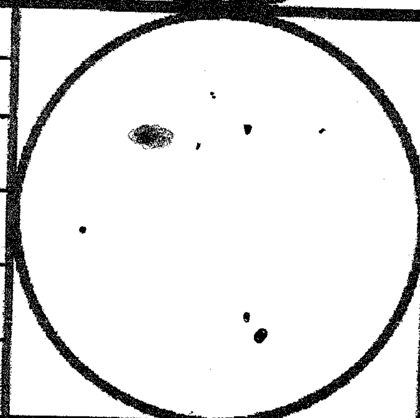
NGC 4581
CONST
DATE 3/26/20
TIME 3:40



SITE ACT | SEEING III | TRANS II
INSTR 22 | EYEPIECE 10 | POWER 240

COMMENTS
BOTH MD SIZE & ELONG
← HINT OF NUC & ARMS

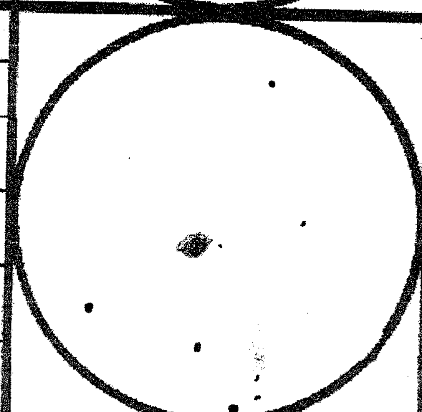
NGC 4606
CONST
DATE ″
TIME 3:50



SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER

COMMENTS
MD SIZE & BRIGHT
ELONG, SM NUC

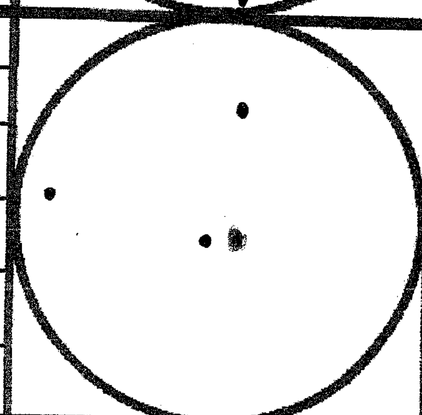
NGC 4579
CONST
DATE ″
TIME 4:00



SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER

COMMENTS
OVAL, MD SIZE & BRITE

NGC 4659
CONST
DATE ″
TIME 4:10

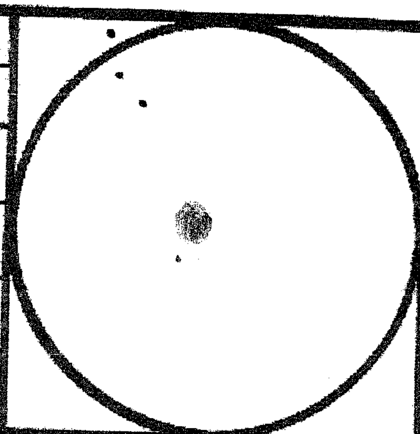


SITE ↓ | SEEING | TRANS ↓
INSTR | EYEPIECE | POWER

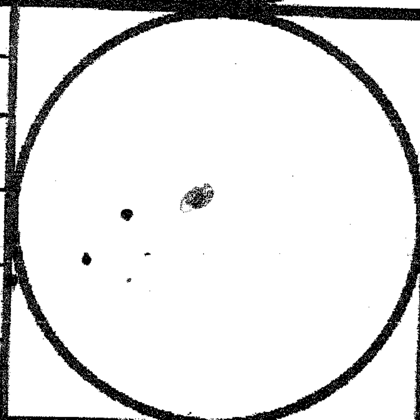
COMMENTS
SMALL OVAL GLOW

HERSCHEL OBSERVATIONS

NGC 4733	SITE Acr	SEEING III / TRANS III
CONST	INSTR 22	EYEPIECE 10 / POWER 240
DATE 3/26/20	COMMENTS	
TIME 4:30	LG ROUND GLOW, NOT DIM	



NGC 4765	SITE ↓	SEEING / TRANS ↓
CONST	INSTR	EYEPIECE / POWER
DATE 〃	COMMENTS	
TIME 4:45	OVAL, NC, GLOW	



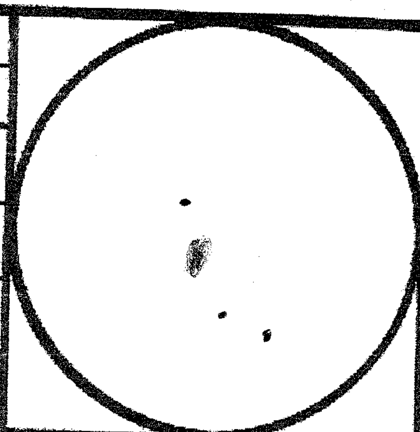
NGC	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE	COMMENTS	
TIME		

NGC	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE	COMMENTS	
TIME		

HERSCHEL OBSERVATIONS

ALL #4

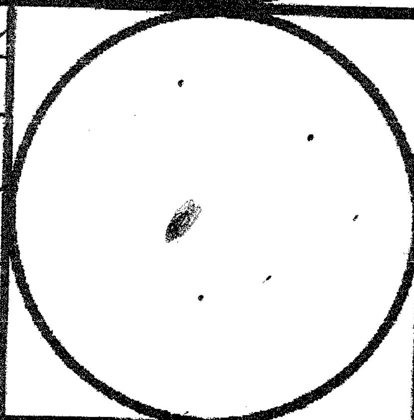
NGC	4390
CONST	
DATE	4/1/20
TIME	2:30



SITE	SEEING	TRANS
ACT	II	III
INSTR	**EYEPIECE**	**POWER**
22	10	240

COMMENTS
NICE SPIRAL, LT NUC
NOT DIM

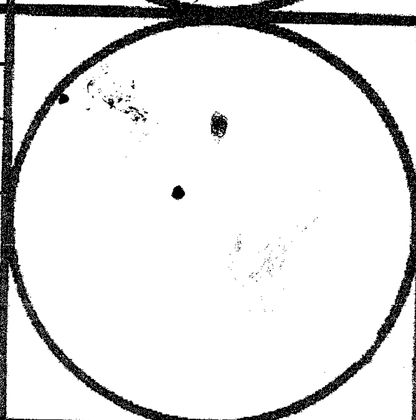
NGC	4482
CONST	
DATE	"
TIME	2:40



SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS
NICE ELONG GLOW -
TIPPED SPIRAL

NGC	4498
CONST	
DATE	"
TIME	2:50

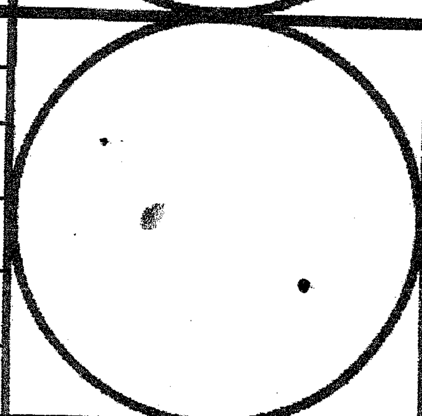


SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS
4489 INSTEAD - OOPS

MISS
4489
REPEAT

NGC	4502
CONST	
DATE	"
TIME	3:00



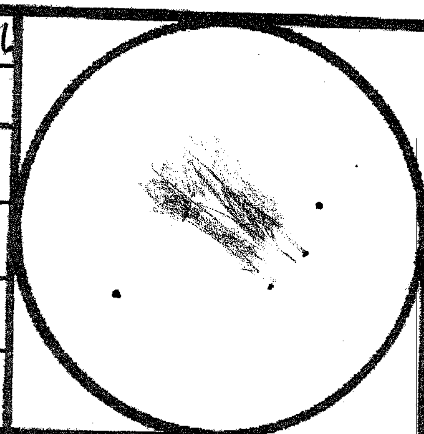
SITE	SEEING	TRANS
↓	↓	
INSTR	**EYEPIECE**	**POWER**

COMMENTS
SMALL TIPPED GLOW - MOSTLY
NUC A BIT DIM

HERSCHEL OBSERVATIONS

ALC
H4

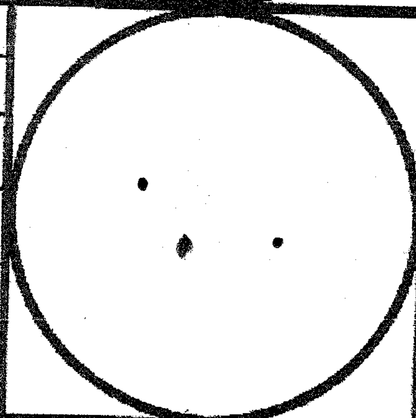
NGC Sh2-274
CONST
DATE 4/1/20
TIME 3:10



SITE ACT | SEEING II | TRANS II—
INSTR 22 | EYEPIECE 24 | POWER 100

COMMENTS
SAW FILAMENTS IN
LINE FROM 3 STARS
NO FILTER

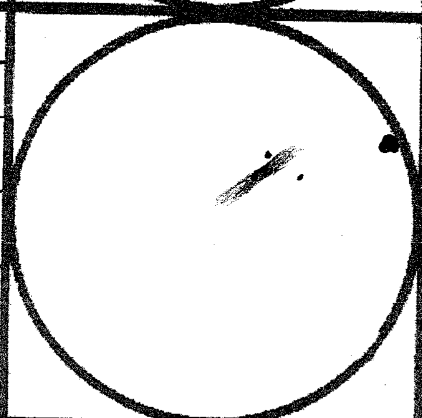
NGC 3734
CONST
DATE "
TIME 3:20



SITE | SEEING | TRANS
INSTR | EYEPIECE 10 | POWER 290

COMMENTS
SEE REVISIT LATER
TONITE

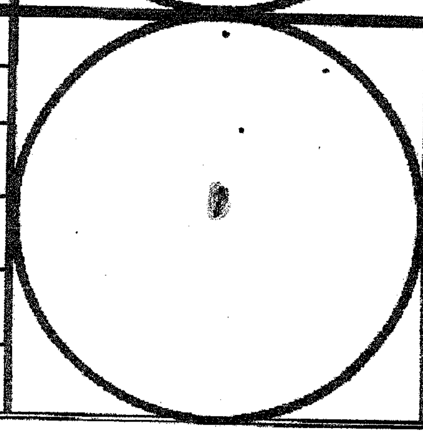
NGC 4758
CONST
DATE "
TIME 3:30



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
WOW! NUC SO BRIGHT
THOUGHT IT WAS STAR

NGC 4923
CONST
DATE "
TIME 3:40



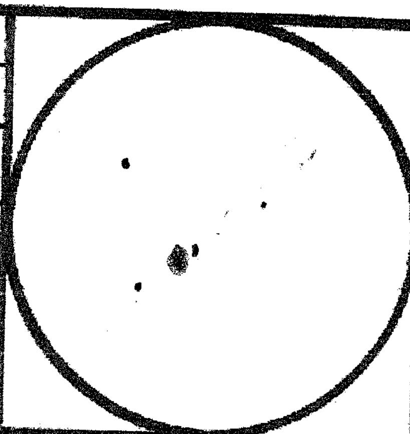
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
STRANGE I DIDN'T SEE
OTHERS IN FLD
BUT THEY ARE DIMMER

HERSCHEL OBSERVATIONS

ALL H4

NGC 4944
CONST

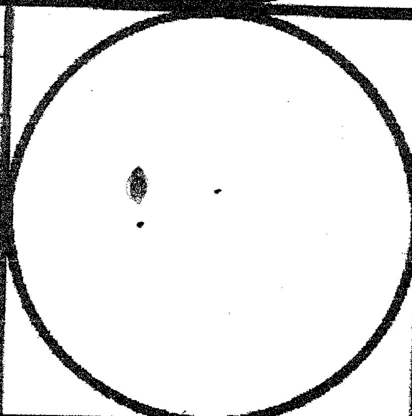


SITE ACT | SEEING II | TRANS III
INSTR 22 | EYEPIECE 10 | POWER 240

COMMENTS
I SAW IT SL. OVAL W/ BIG
NUC - BRIGHT IN A GOOD
FIELD

DATE 4/1/20
TIME 3:50

NGC 4957
CONST

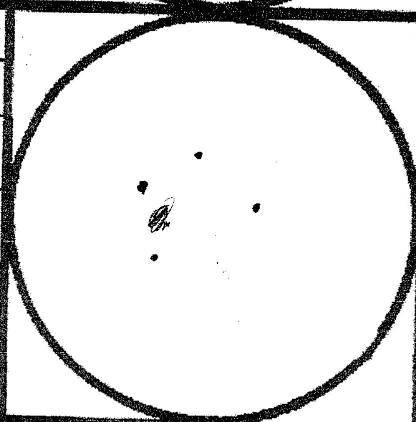


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
SM OVAL, NO DETAILS
MED BRITE

DATE "
TIME 4:00

NGC 4961
CONST



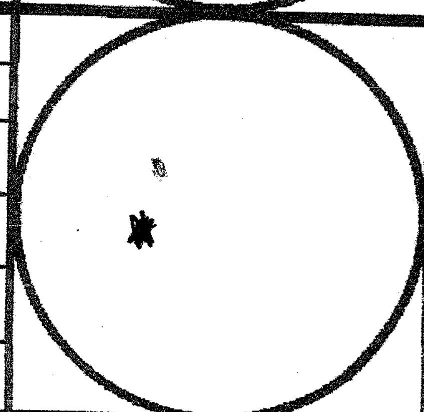
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

REVISIT

COMMENTS
NOT SURE ABOUT FLD...

DATE "
TIME 4:10

NGC 4966
CONST



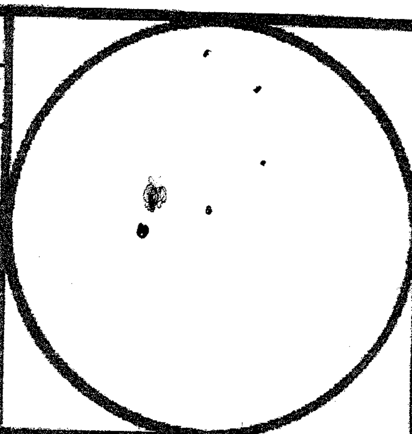
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
HARD TO SEE W/ 7MAG
FS - ELONGATED DIM GLOW

DATE "
TIME 4:20

HERSCHEL OBSERVATIONS

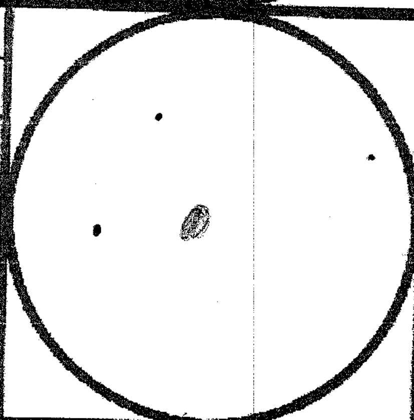
NGC 4983
CONST



SITE ACO | SEEING III | TRANS III
INSTR 22 | EYEPIECE 10 | POWER 240
COMMENTS
SL ROUND DIM GLOW

DATE 4/1/20
TIME 4:30

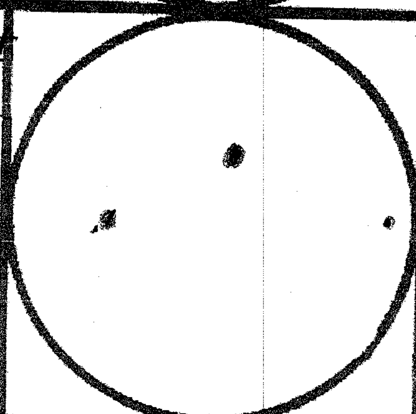
NGC 5000
CONST



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
I HAD AS ROUND GLOW
W/HINT OF BAR – NOT
EASY

DATE 〃
TIME 4:40

NGC 5004+
CONST

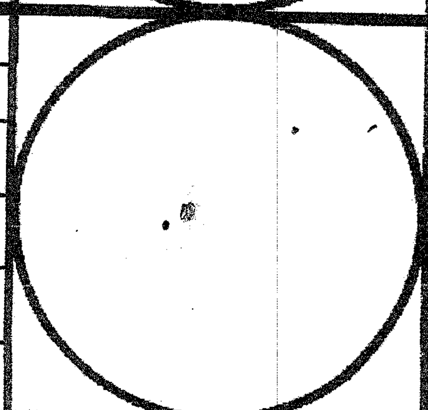


SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
← NGC 5004 BRITE ELLIP
← IC 4218 TINY DIM DOT

← UGC 8259 KNOT OF DIM NEXT
TO FS

DATE 〃
TIME 4:45

NGC 4979
CONST



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

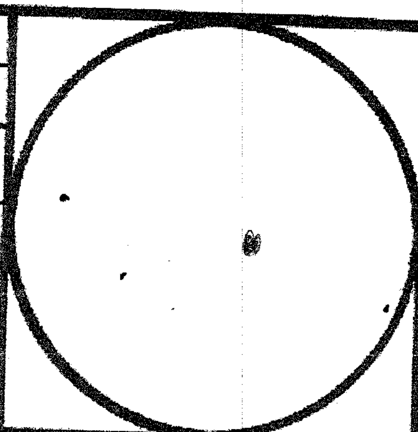
REVISIT THIS

DATE 〃
TIME 4:50

HERSCHEL OBSERVATIONS

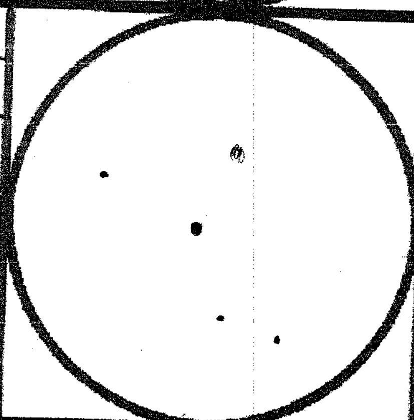
ALL
H4

NGC 5224
CONST
DATE 4/1/20
TIME 5:00



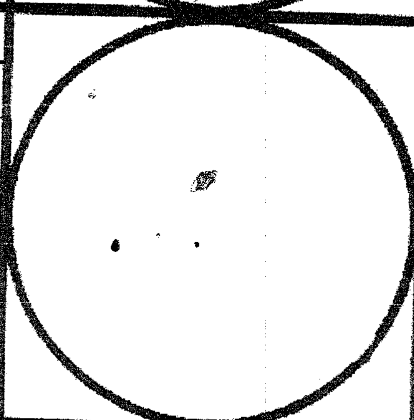
SITE Act | SEEING III | TRANS III
INSTR 22 | EYEPIECE 10 | POWER 240
COMMENTS
SM DIM OVAL

NGC 5235
CONST
DATE 11
TIME 5:10



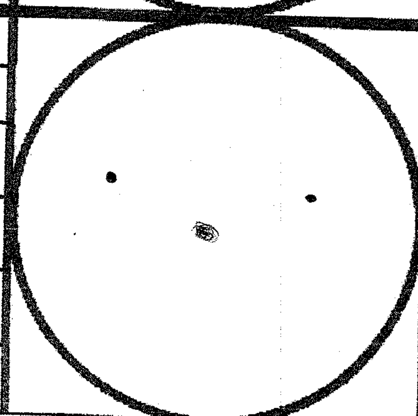
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
I SAW AS SM FT ROUND
GLOW - NO ARMS

NGC 5239
CONST
DATE 11
TIME 5:20



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
SM NO GLOW, NO FT ARMS
AS IN PHOTOS

NGC 3734
CONST REVISIT
DATE 11
TIME 5:30

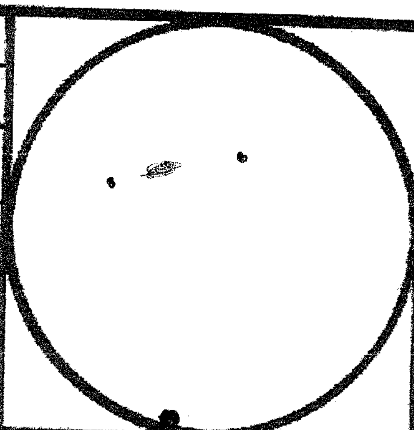


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
SL BETTER NOW, OVAL GLOW
BUT NO DETAIL

HERSCHEL OBSERVATIONS

ALL Hy

NGC	5252
CONST	
DATE	4/1/20
TIME	5:35

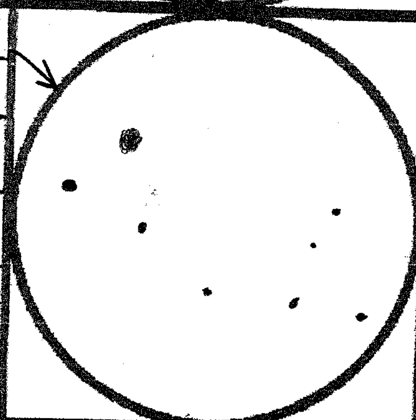


SITE	SEEING	TRANS
Ace	III	II-
INSTR	**EYEPIECE**	**POWER**
22UC	10	240

COMMENTS

FT ELONG GLOW

NGC	5329
CONST	
	5331
DATE	"
TIME	5:40



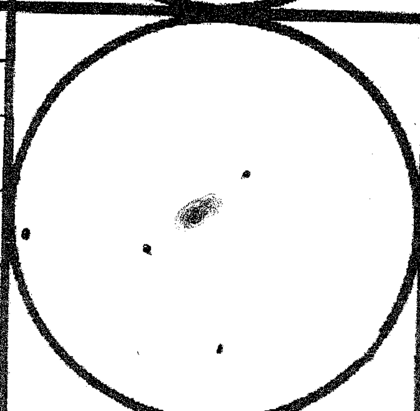
SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

5329 BRITE ELLIP

5331 SM & DIM — NO HINT OF IT BEING 2 SPIRALS

NGC	5417
CONST	
DATE	"
TIME	5:50

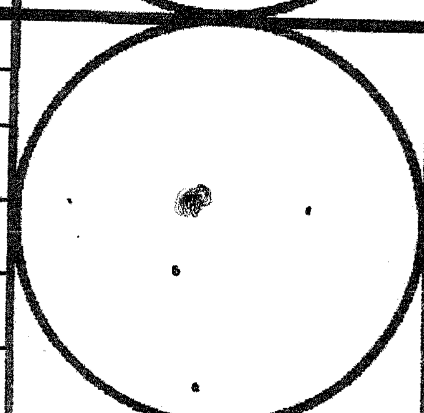


SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

COMMENTS

NICE TIPPED SPIRAL W LG BRITE NUC, GLOW W HINT OF ARMS

NGC	5482
CONST	
DATE	"
TIME	6:00



SITE	SEEING	TRANS
INSTR	**EYEPIECE**	**POWER**

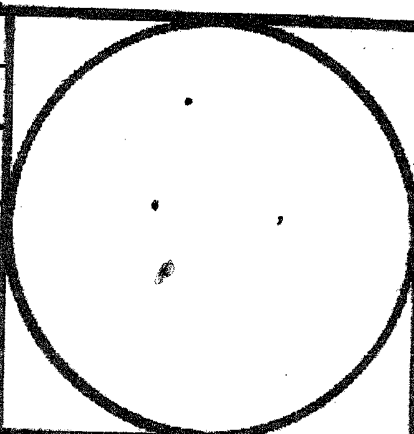
COMMENTS

OVAL GLOW IN DIM FLD

ALL
H4

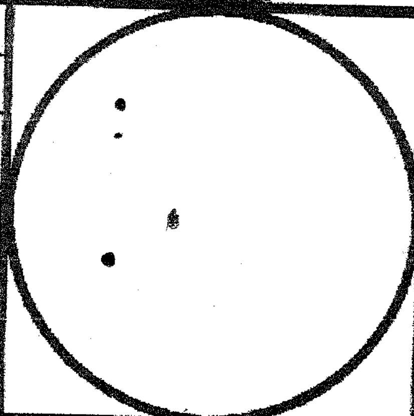
HERSCHEL OBSERVATIONS

NGC 5491~~A~~
CONST
DATE 4/1/20
TIME 6:05



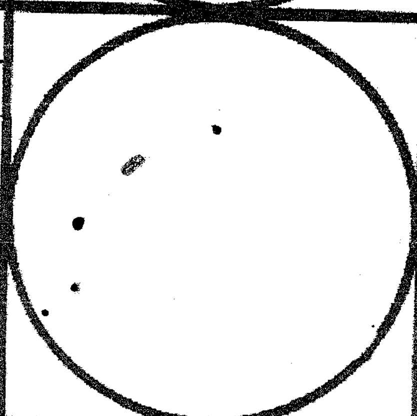
SITE ACT | SEEING III | TRANS II-
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS
ITS 5491 NOT NGC 5491A
SMALL DIM OVAL

NGC 5570
CONST
DATE "
TIME 6:10



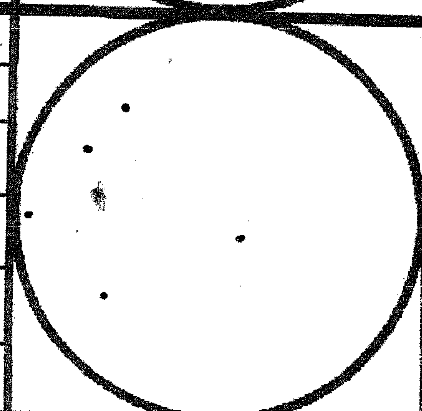
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
VS VD TINY OVAL

NGC 5599
CONST
DATE "
TIME 6:15



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
S, sl F TIPPED SPIRAL

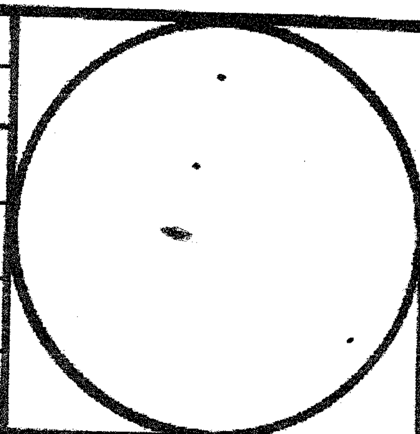
NGC 5652
CONST
DATE "
TIME 6:20

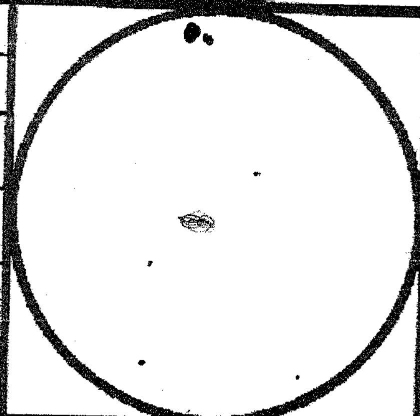


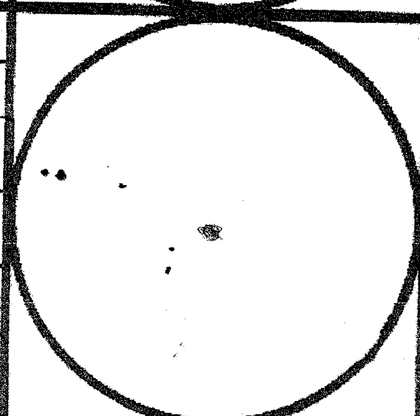
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
NUC ONLY OF A NICE SPIRAL

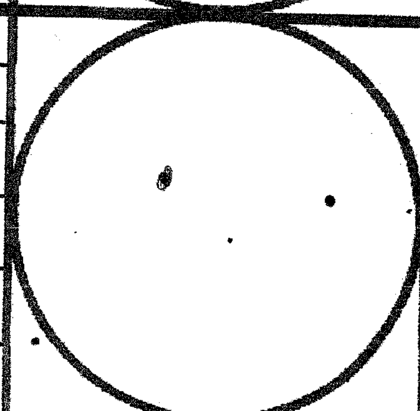
HERSCHEL OBSERVATIONS

ARL
H4

NGC		SITE	SEEING	TRANS
5661		Aco	II	III
CONST		INSTR 22	EYEPIECE 10	POWER 240
DATE 4/1/20		COMMENTS: COULD TELL IT'S ELONG W/NC — BUT NO HINT OF FURTHER DETAIL		
TIME 6:25				

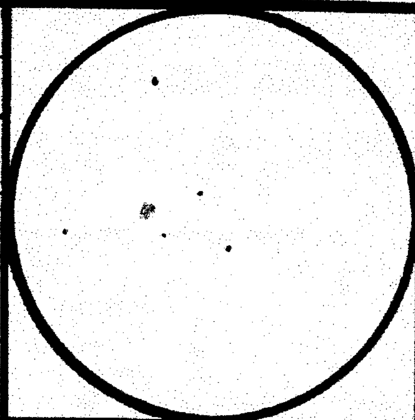
NGC		SITE	SEEING	TRANS
5703		↓	↓	
CONST		INSTR ↓	EYEPIECE ↓	POWER
DATE 〃		COMMENTS: NICE OVAL GLOW, A BIT FT		
TIME 6:30				

NGC		SITE	SEEING	TRANS
5343		↓	↓	
CONST		INSTR ↓	EYEPIECE ↓	POWER
DATE 〃		COMMENTS: MD BRITE & SIZE ELLIPTICAL		
TIME 6:35				

NGC		SITE	SEEING	TRANS
5369		↓	↓	
CONST		INSTR ↓	EYEPIECE ↓	POWER
1		COMMENTS: RD GLOW IN BLANK FLD.		
DATE 〃				
TIME 6:40				

HERSCHEL OBSERVATIONS

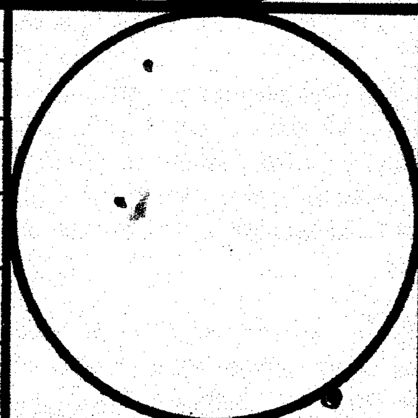
NGC 4422
CONST
DATE 4/16/20
TIME 235



SITE ACT | SEEING III | TRANS I
INSTR 22 | EYEPIECE 10 | POWER 240

COMMENTS
SM & DIM

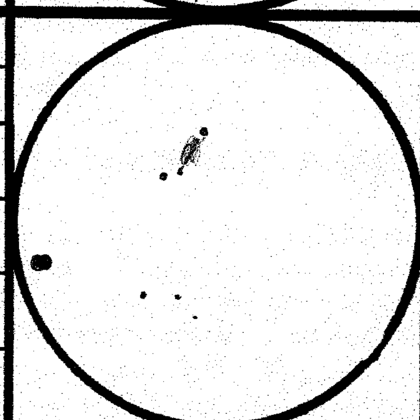
NGC 4799
CONST
DATE "
TIME 240



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
2X1 RIGHT NEXT TO FS

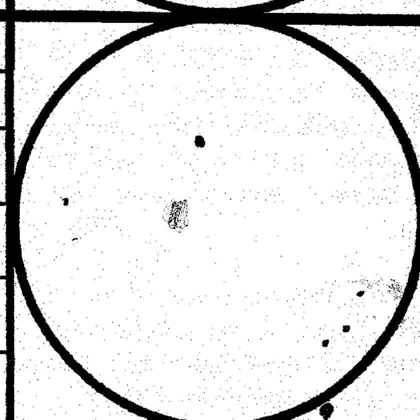
NGC 5185
CONST
DATE "
TIME 245



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
ELONG GLOW BETWEEN
2 FS

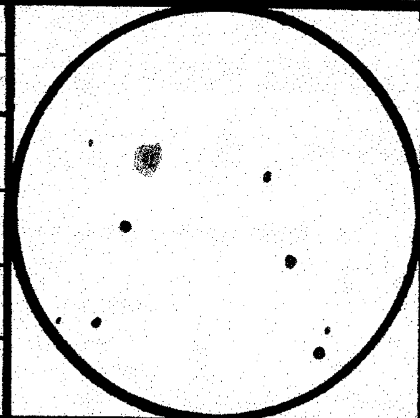
NGC 5293
CONST
DATE "
TIME 250



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
MD SIZE, SL DIM GLOW

NGC 4786	SITE ACT	SEEING II	TRANS I
CONST	INSTR 22UC	EYEPIECE 10	POWER 240
DATE 4/16/20			
TIME 255			

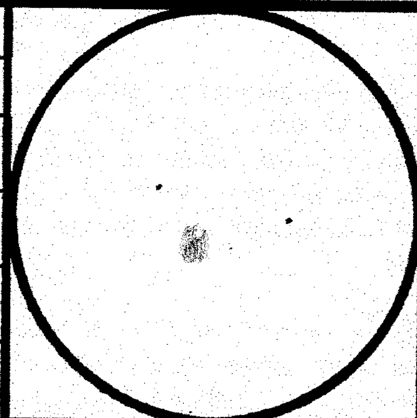


COMMENTS

NICE, W COMP, NUC

FLD LIKE A LADDER

NGC 4813	SITE ↓	SEEING ↓	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "			
TIME 300			

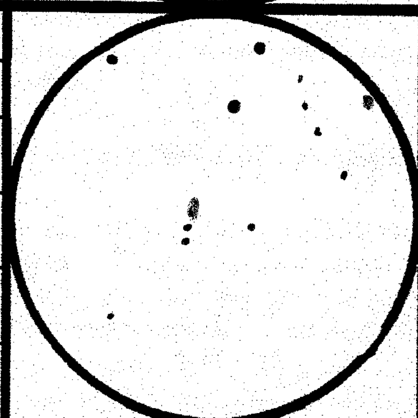


COMMENTS

MD, NOT TOO DIM, SM NUC

POOR FLD

NGC 4878/9	SITE ↓	SEEING ↓	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "			
TIME 305			



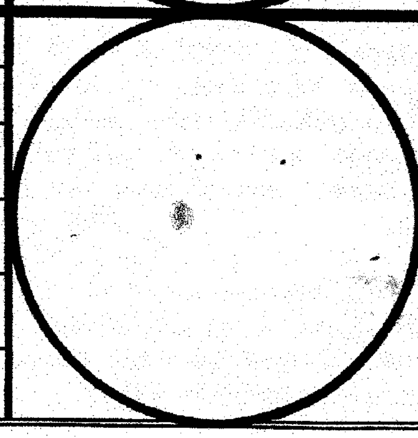
COMMENTS

IN SAME FLD, ONE NEXT TO

WIDE DBL, OTHER IN NICE

FLD, BUT DIM

NGC 6227	SITE ↓	SEEING ↓	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE "			
TIME 310			

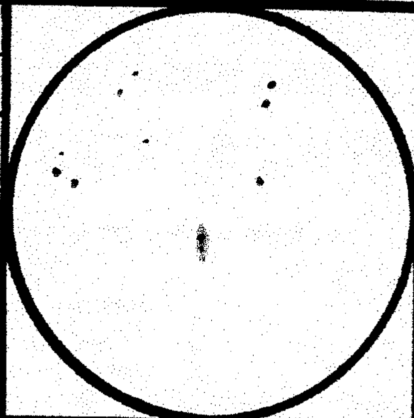


COMMENTS

MD, BAR? POOR FLD

HERSCHEL OBSERVATIONS

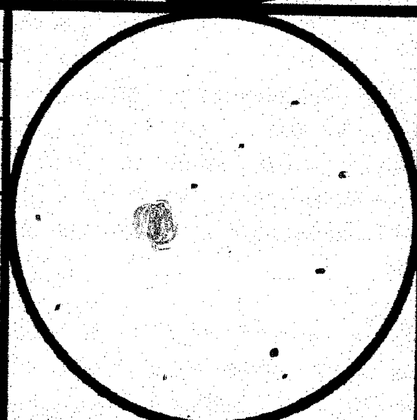
NGC	2481
CONST	
DATE	7/16/20
TIME	318



SITE	ACT	SEEING III	TRANS I
INSTR	22 VC	EYEPIECE 10	POWER 240

COMMENTS
ELONG W/ FS & STELLAR NUC, SEVERAL PAIRS OF FS NEARBY

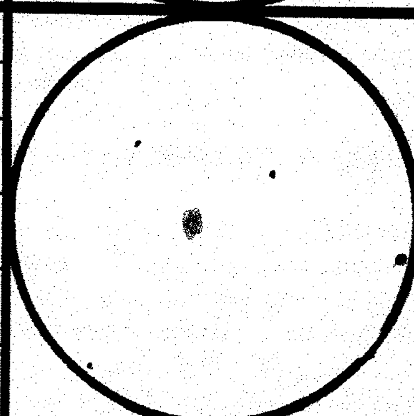
NGC	2979
CONST	
DATE	"
TIME	320



SITE	↓	SEEING ↓	TRANS
INSTR		EYEPIECE	POWER

COMMENTS
LG, SL. HINTS OF ARMS NOT DIM, FS MAKE AN "A"

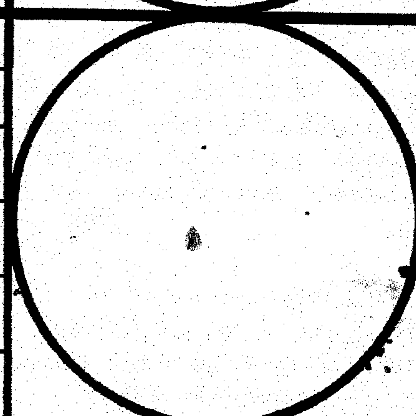
NGC	5392
CONST	
DATE	"
TIME	330



SITE	↓	SEEING ↓	TRANS
INSTR		EYEPIECE	POWER

COMMENTS
SM BUT BRIGHT, NO DETAIL

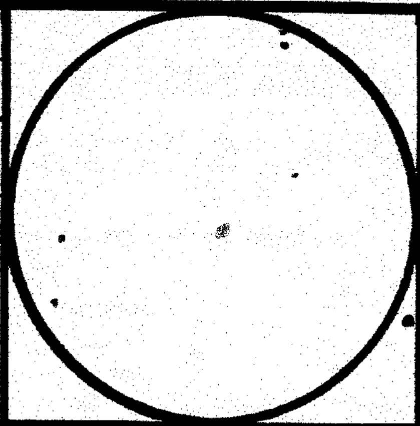
NGC	5400
CONST	
DATE	"
TIME	340



SITE	↓	SEEING ↓	TRANS
INSTR		EYEPIECE	POWER

COMMENTS
SM & DIM NO DETAIL

NGC	5478
CONST	
DATE	4/18/20
TIME	350

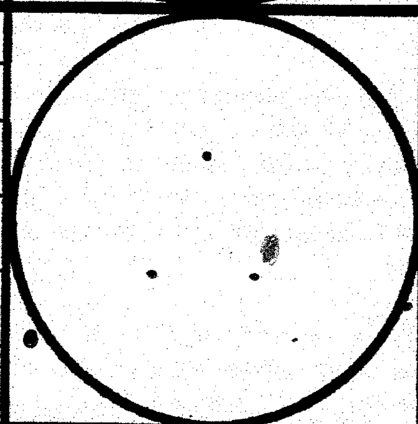


SITE	ACT	SEEING	III	TRANS	I
INSTR	22UC	EYEPIECE	10	POWER	240

COMMENTS

VS VP FLP DIM.

NGC	5476
CONST	
DATE	"
TIME	400



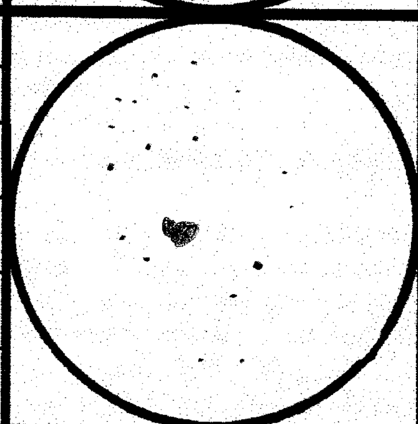
SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

OBLONG, NOT DIM

NICE FS

NGC	2802/3
CONST	
DATE	"
TIME	410



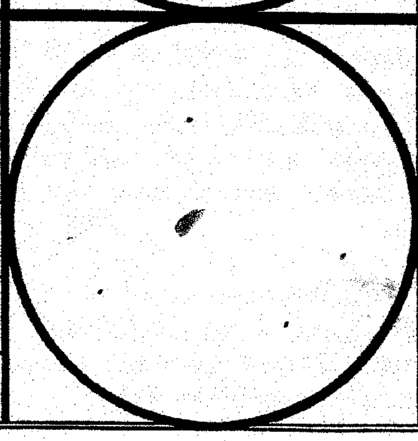
SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

SEEM CONNECTED, NOT DIM

BUT NO DETAIL

NGC	5604
CONST	
DATE	"
TIME	420



SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

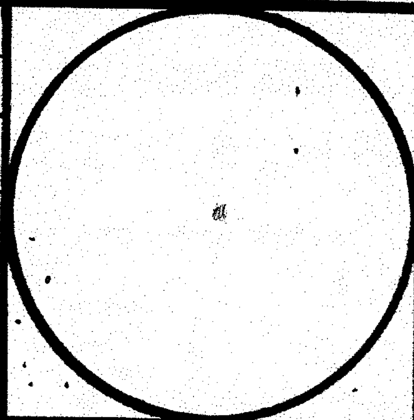
COMMENTS

ONE END "SHARP" NO OTHER

DETAIL, FS DIM

HERSCHEL OBSERVATIONS

NGC	5618	SITE	ACT	SEEING III	TRANS I-
CONST		INSTR	22UC	EYEPIECE 10	POWER 240
DATE	4/16/20				
TIME	430				

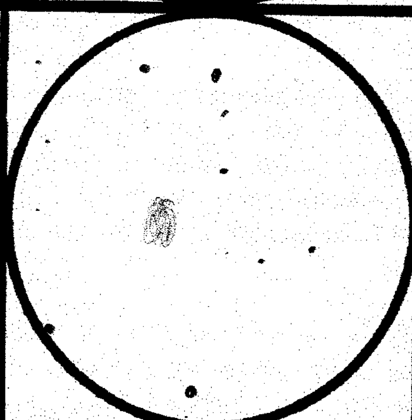


COMMENTS

VS VD FS DIM..

EXCEPT

NGC	5691	SITE		SEEING	TRANS
CONST		INSTR		EYEPIECE	POWER
DATE	"				
TIME	440				

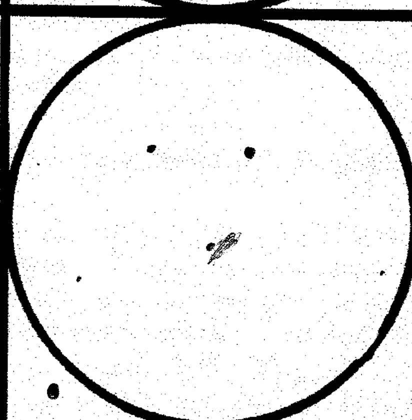


COMMENTS

LG, NOT TOO DIM,

NO NUC SEEN MCE FS

NGC	5768	SITE		SEEING	TRANS
CONST		INSTR		EYEPIECE	POWER
DATE	"				
TIME	500				

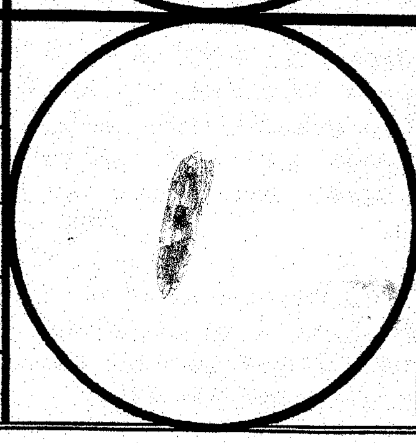


COMMENTS

ELONG, NEXT TO FS

NOT MUCH DETAIL

NGC	2905	SITE		SEEING	TRANS
CONST		INSTR		EYEPIECE	POWER
DATE	"				
TIME	510				



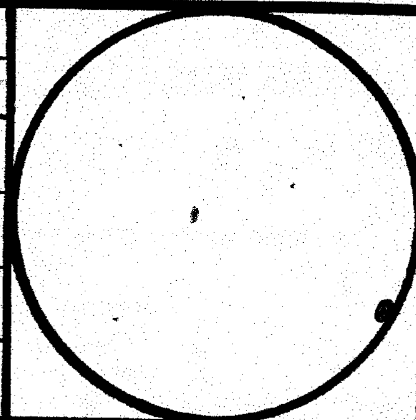
COMMENTS

VERY OBVIOUS, NOT SMALL

← KNOT IN N2903

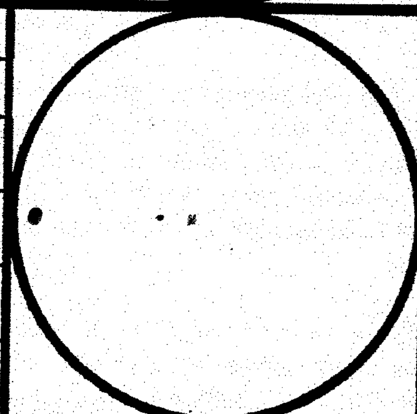
HERSCHEL OBSERVATIONS

NGC 2843	SITE ACT	SEEING III
CONST		TRANS I-
DATE 4/16/20	INSTR 22UC	EYEPIECE 10
TIME 520		POWER 240



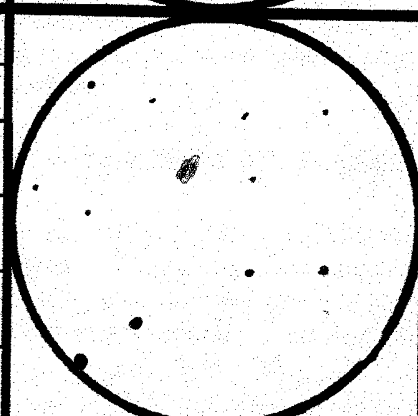
COMMENTS
TINY NO DETAIL
POOR FS

NGC 2984	SITE	SEEING
CONST		TRANS
DATE "	INSTR	EYEPIECE
TIME 530		POWER



COMMENTS
TINY - NEXT TO DIM
STAR

NGC 3053	SITE	SEEING
CONST		TRANS
DATE "	INSTR	EYEPIECE
TIME 540		POWER



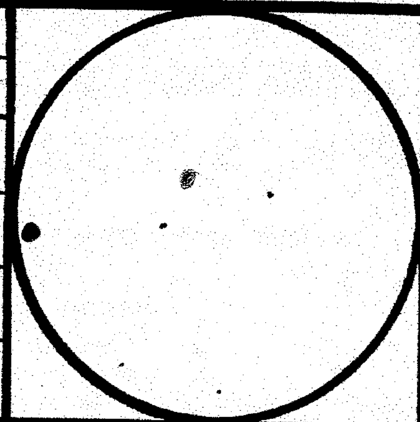
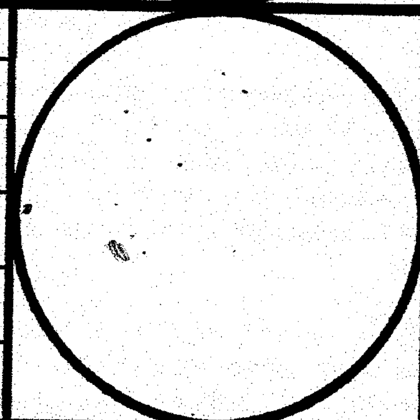
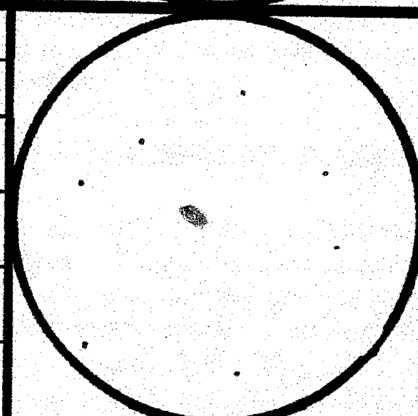
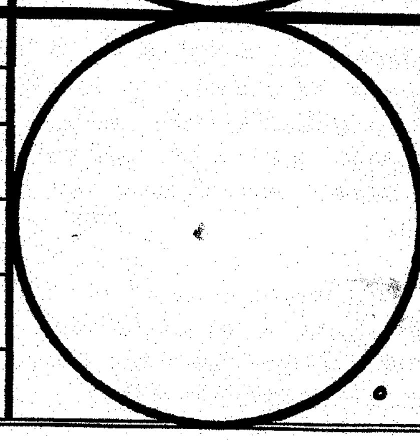
COMMENTS
MD SIZE & MAG, SL. TIPPED
VERY NICE FS

NGC 2916	SITE	SEEING
CONST		TRANS
DATE "	INSTR	EYEPIECE
TIME 550		POWER

COMMENTS
VERY NICE, SEEMS TO
HAVE CURL OR ARMS,
SM. NC, NO GOOD FS

3356

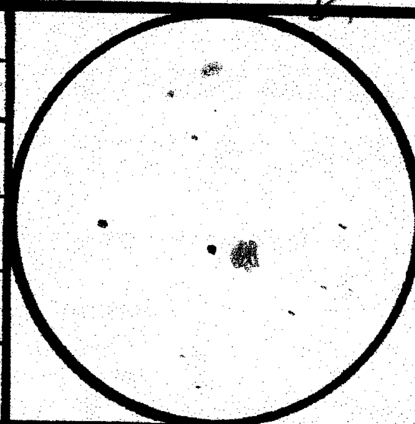
HERSCHEL OBSERVATIONS

NGC 3356 CONST DATE 4/16/20 TIME 600		SITE ACT · SEEING III · TRANS I- INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS SM, DIM, NO DETAIL
NGC 3099A CONST DATE " TIME 610		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS SL. ELONG, DIM
NGC 3106 CONST DATE " TIME 620		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS ELONG, DIM
NGC 3196 CONST DATE " TIME 630		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS AV only & NO HELPFUL FS

HERSCHEL OBSERVATIONS

NGC	4869/74
CONST	
DATE	4/21/20
TIME	330
SITE	ACT
SEEING	II
TRANS	III
INSTR	22UC
EYEPIECE	10
POWER	240

← 69



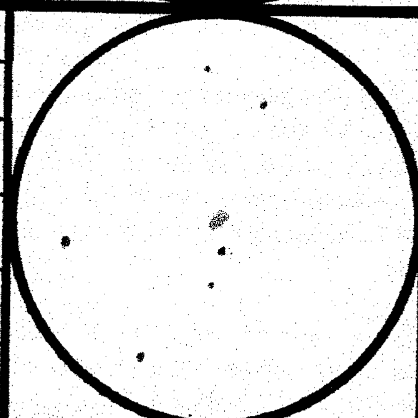
← 74

COMMENTS

4869 sm glow, no details

4874 larger round glow hint of nuc

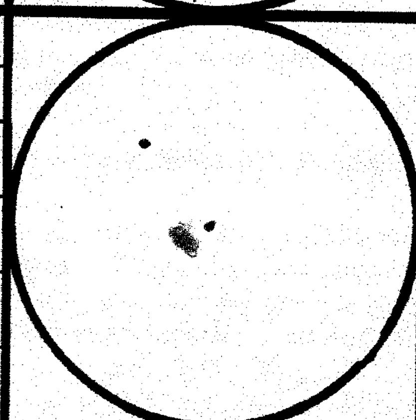
NGC	2746
CONST	
DATE	"
TIME	410
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	



COMMENTS

VS VF

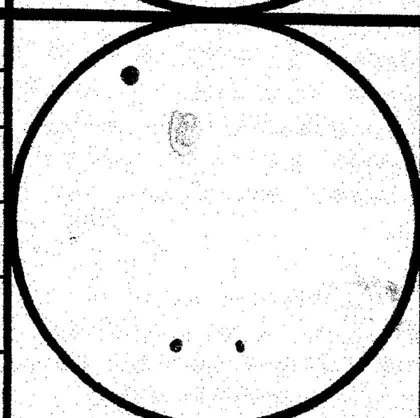
NGC	3021
CONST	
DATE	"
TIME	450
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	



COMMENTS

tipped spiral

NGC	3074
CONST	
DATE	"
TIME	500
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	



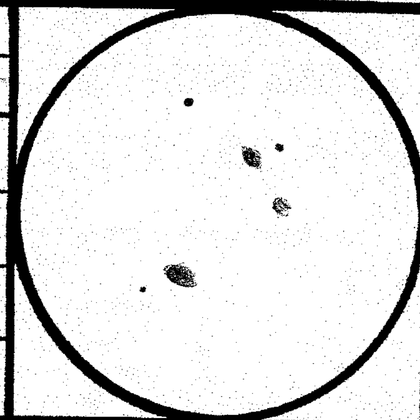
COMMENTS

AV=2

md size, elusive glow

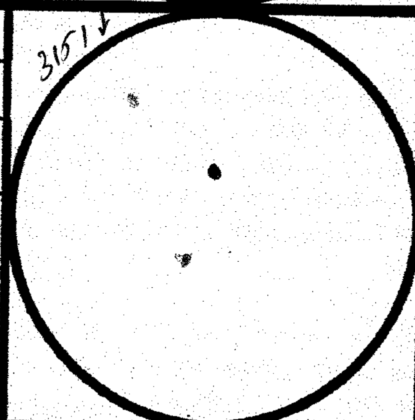
HERSCHEL OBSERVATIONS

NGC 3163/4	SITE ACT	SEEING II / TRANS II
CONST 58/59	INSTR 22UC	EYEPIECE 10 / POWER 240
DATE 4/21/20		
TIME 545		



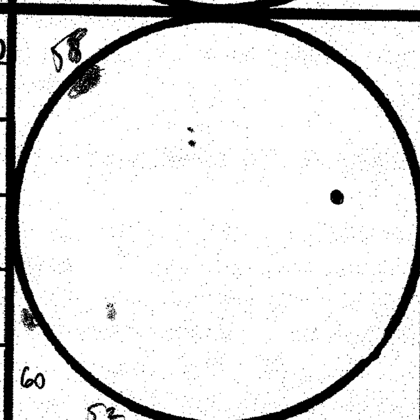
COMMENTS
←3163 all shaped as
←3159 shown, md
←3158 size & well seen

NGC 3150/51	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 〃		
TIME 600		



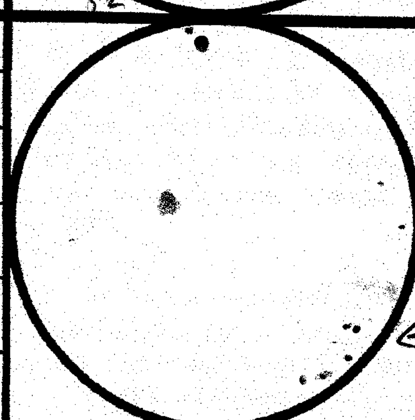
COMMENTS
←3150 sf glows
near a fs

NGC 3152/58/60	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 〃		
TIME 610		



COMMENTS
~2 FLDS SHOWN, ALL
seen OK, 3158 is quite
easy

NGC 3265	SITE ↓	SEEING ↓ TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 〃		
TIME 620		

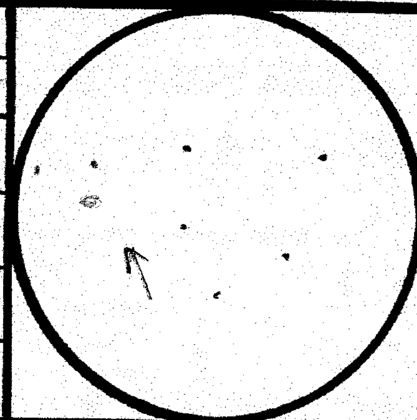


COMMENTS
md cond glow, nice
←fs area nearby

HERSCHEL OBSERVATIONS

NGC	SITE	SEEING	TRANS	INSTR	EYEPIECE	POWER	DATE	TIME
3237	ACT	II	II	22UC	10	240	4/21/20	630

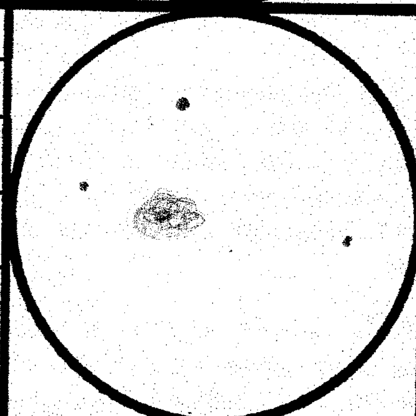
CONST



COMMENTS

VF VS

NGC	CONST	SITE	SEEING	TRANS	INSTR	EYEPIECE	POWER	DATE	TIME
~~3304~~	3294							"	640



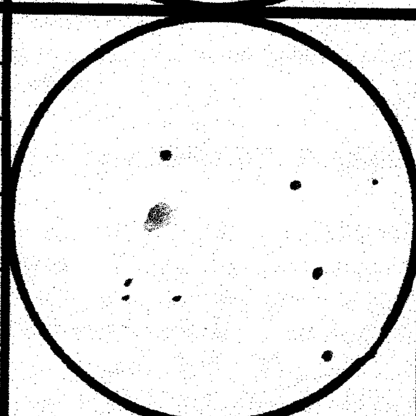
COMMENTS

REVISIT 3304

3294 LG, NUC SEEN, OVAL GLOW

NGC	SITE	SEEING	TRANS	INSTR	EYEPIECE	POWER	DATE	TIME
3334							"	645

CONST



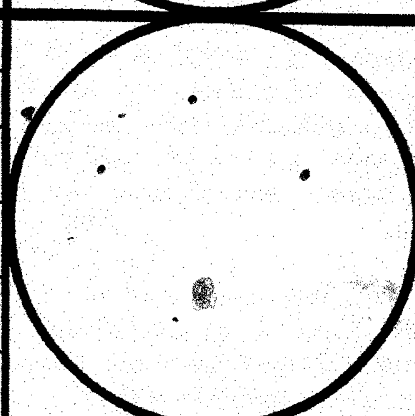
COMMENTS

FS POINT TO IT EASILY

ROUND GLOW

NGC	SITE	SEEING	TRANS	INSTR	EYEPIECE	POWER	DATE	TIME
3380							"	650

CONST



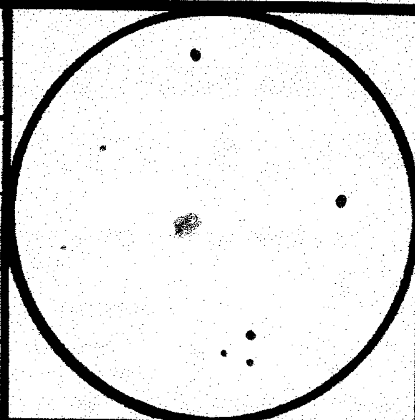
COMMENTS

ANOTHER OVAL GLOW,

FS POINT IT OUT

HERSCHEL OBSERVATIONS

NGC	3400
CONST	
DATE	4/21/20
TIME	700

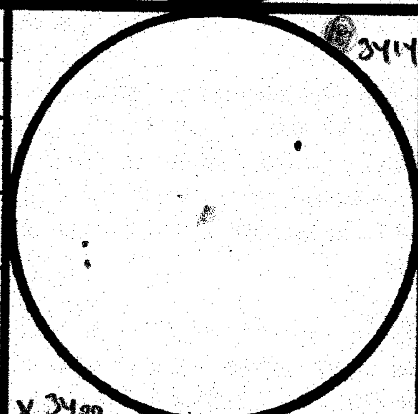


SITE	ACT	SEEING	II	TRANS	II
INSTR	22UC	EYEPIECE	10	POWER	240

COMMENTS

ROUND GLOW, NICE Δ NEAR

NGC	3418
CONST	
DATE	"
TIME	710

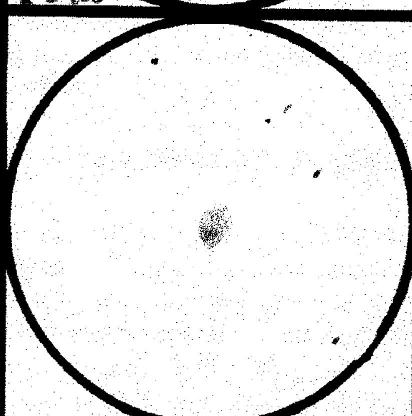


SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

S, F

NGC	3381
CONST	
DATE	"
TIME	720

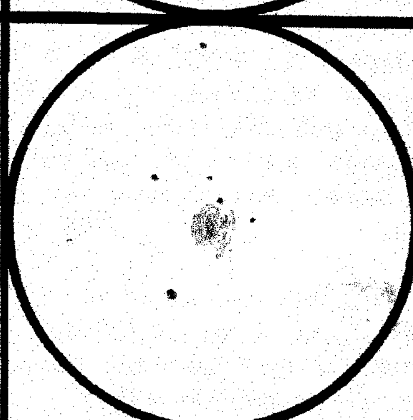


SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

MD GLOW, SM NUC SEEN

NGC	3691
CONST	
DATE	"
TIME	730

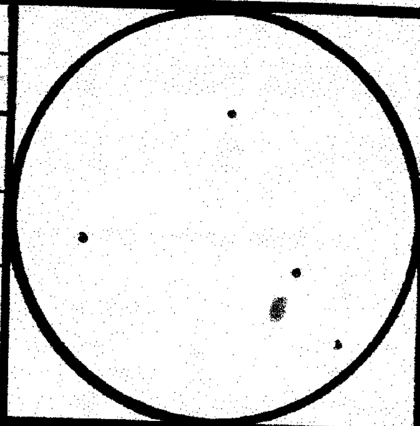


SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

LG, HINT OF ARMS
TINY N/C SEEN ? OR
FS ?

NGC	3468
CONST	
DATE	4/21/20
TIME	735

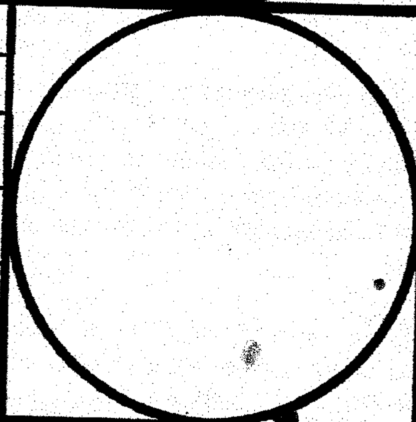


SITE	ACT	SEEING	II	TRANS	II
INSTR	22UC	EYEPIECE	10	POWER	240

COMMENTS

OVAL GLOW, NICE FS

NGC	3710
CONST	
DATE	"
TIME	740



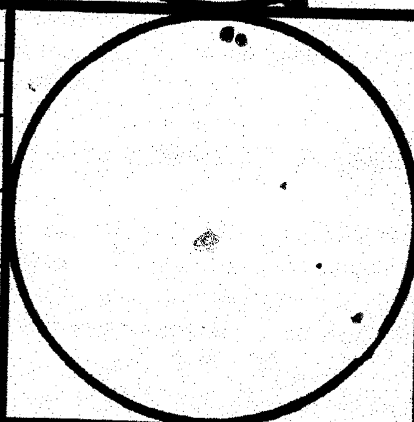
SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

VF, SM, NEAR BRIGHT STAR

← PUT OUT OF FLD!

NGC	3728
CONST	
DATE	"
TIME	745



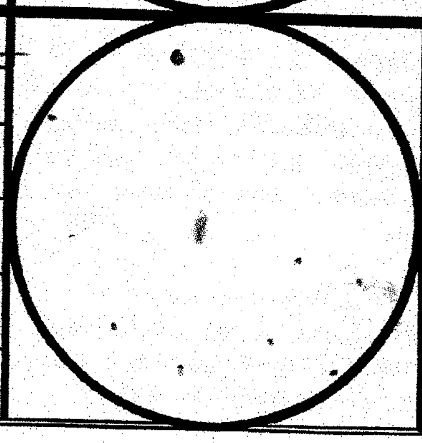
SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

VVF, DBL FS HELPS

Re meteor now

NGC	3772
CONST	
DATE	"
TIME	750

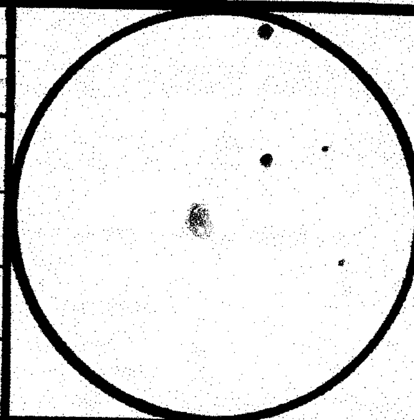


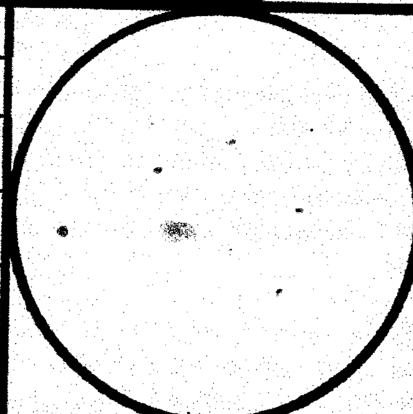
SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

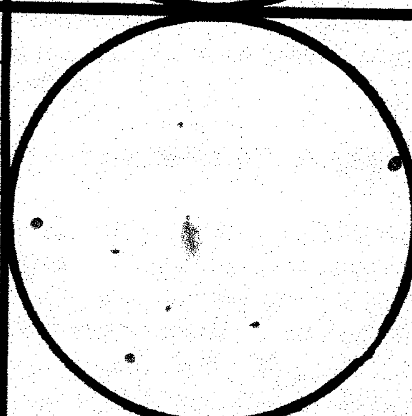
COMMENTS

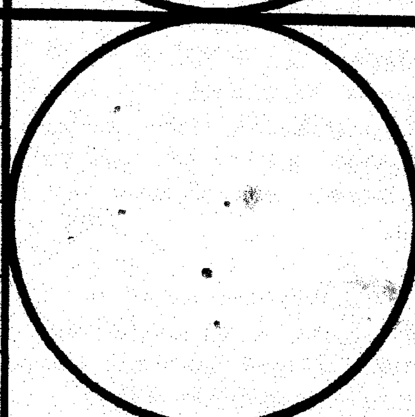
BAR, W SOME GLOW

HERSCHEL OBSERVATIONS

NGC 3798		SITE ACT · SEEING II · TRANS II
CONST		INSTR 22UC · EYEPIECE 10 · POWER 240
DATE "		COMMENTS: MO SIZE & MAG OVAL FS POINT TO IT
TIME 758		

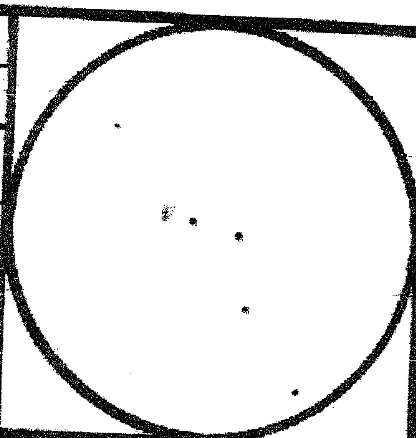
NGC 3826		SITE ↓ · SEEING ↓ · TRANS
CONST		INSTR · EYEPIECE · POWER
DATE "		COMMENTS: ELONG, NOT TOO DIM FS SHAPE
TIME 800		

NGC 4300		SITE ↓ · SEEING ↓ · TRANS
CONST		INSTR · EYEPIECE · POWER
DATE "		COMMENTS: BAR W/GLOW
TIME 810		

NGC 3902		SITE ↓ · SEEING " · TRANS "
CONST		INSTR · EYEPIECE 24 · POWER 100
DATE "		COMMENTS: SM, F, FS SOME HELP
TIME 820		

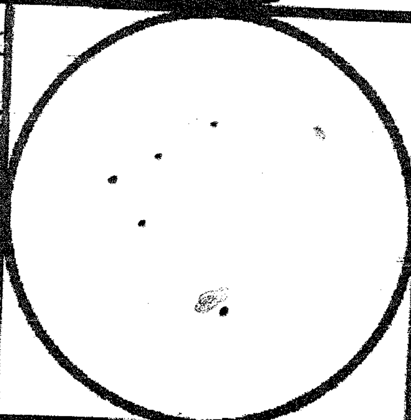
HERSCHEL OBSERVATIONS

NGC 3983
CONST
DATE 4/21/20
TIME 830



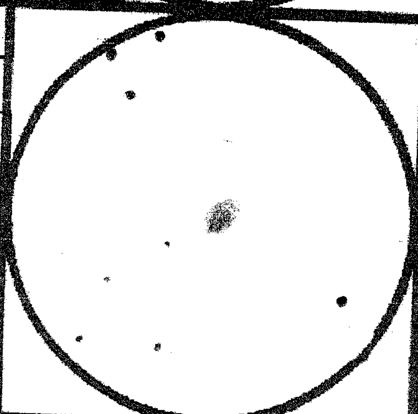
SITE ACT
SEEING II
TRANS II
INSTR 22UC
EYEPIECE 10
POWER 240
COMMENTS
SM & DIM, FS HELP

NGC 4004/A
CONST
DATE "
TIME 835



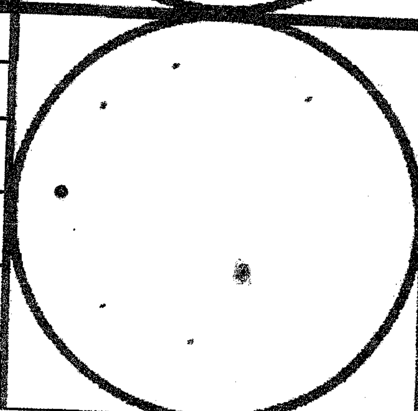
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
<A? NON EXISTANT
← THIS IS A (IT HAS A FEATURE NOT SEEN)

NGC 4008
CONST
DATE "
TIME 830



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
NICE OVAL W/ HINT OF NUC

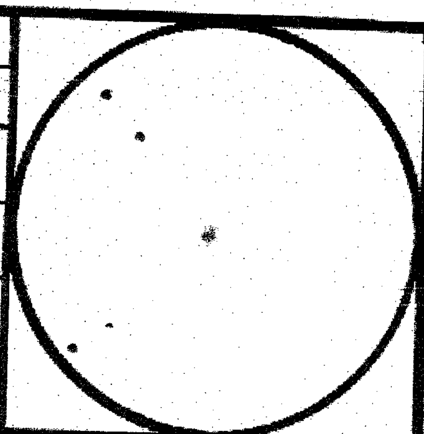
NGC 4021
CONST
DATE "
TIME 840



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
REVISIT -
4015 & 4023 NEARBY

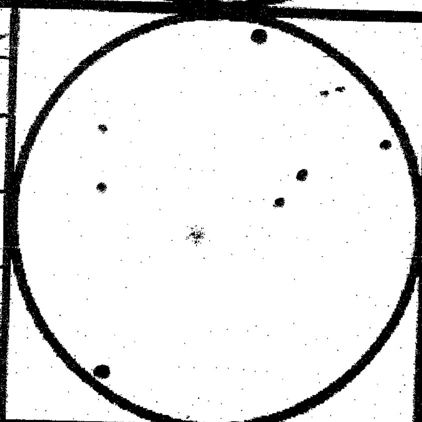
HERSCHEL OBSERVATIONS

NGC 4253
CONST
DATE 4/21/20
TIME 850



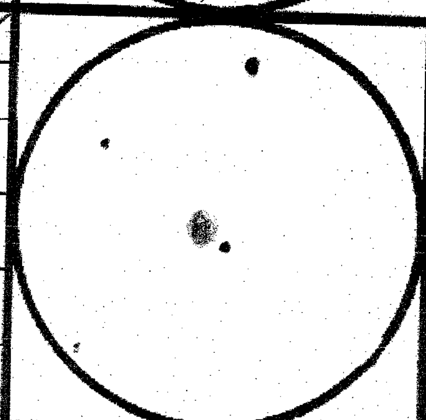
SITE ACT
SEEING II
TRANS II
INSTR 22UC
EYEPIECE 10
POWER 240
COMMENTS
SM ROUND GLOW, FS
A BIG HELP

NGC 4272
CONST
DATE
TIME 900



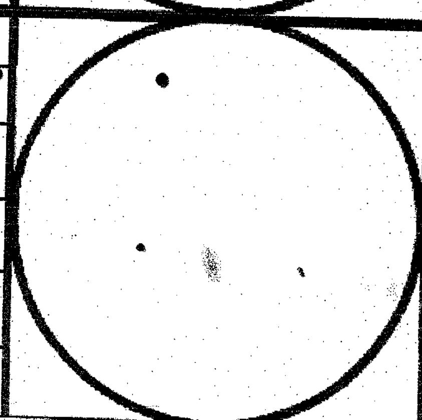
SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
SM GLOW, GREAT FS

NGC 4275
CONST
DATE
TIME 910



SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
ROUND GLOW NEAR FS

NGC 4534
CONST
DATE
TIME 915

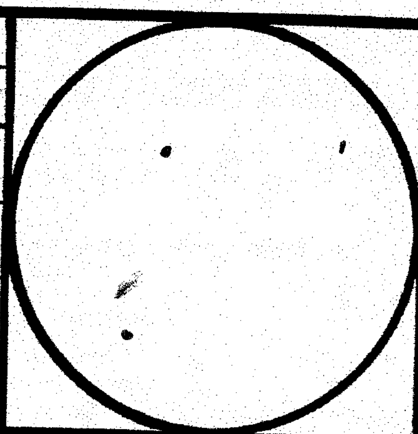


SITE
SEEING
TRANS
INSTR
EYEPIECE
POWER
COMMENTS
ROUND GLOW, GOOD FS

HERSCHEL OBSERVATIONS

NGC 5559
CONST

DATE 4/26/20
TIME 2:30

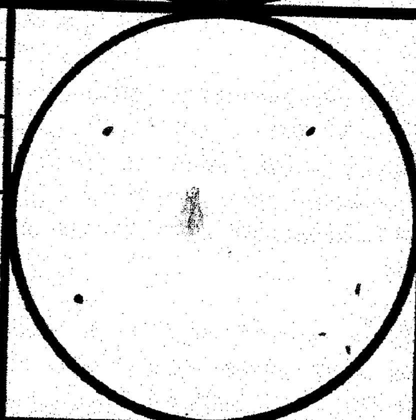


SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
SM ELONG, NEAR FS

NGC 5610
CONST

DATE "
TIME 2:40

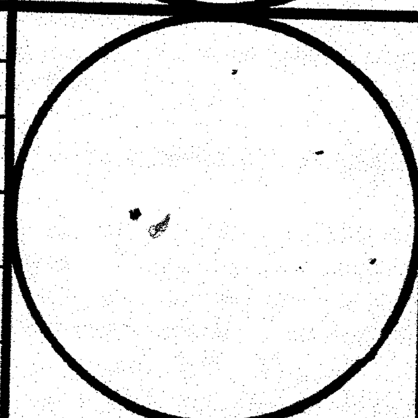


SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE ↓ | POWER

COMMENTS
BAR W/GLOW

NGC 5263
CONST

DATE "
TIME 2:50

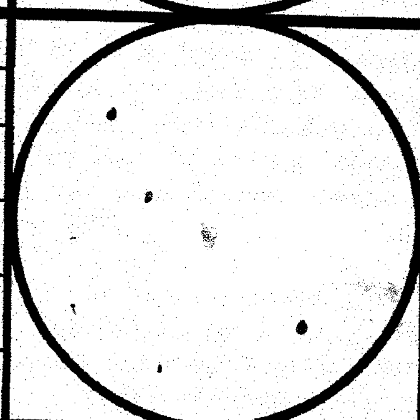


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
M3 ON THE WAY - NEARBY
THIS SMALL TIPPED GLOW
NEAR FS

NGC 3061
CONST

DATE "
TIME 3:00

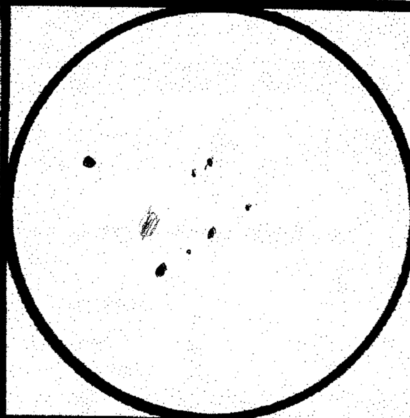


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
S, FT GLOW

HERSCHEL OBSERVATIONS

NGC	3057
CONST	
DATE	
TIME	3:10

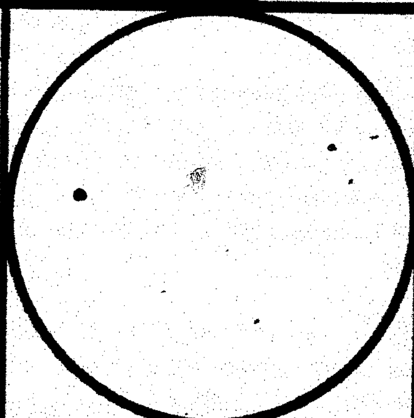


SITE	ACT	SEEING	II	TRANS	II
INSTR	22UC	EYEPIECE	10	POWER	240

COMMENTS

NVC OR BAR SEEN

NGC	3061
CONST	
DATE	
TIME	3:15

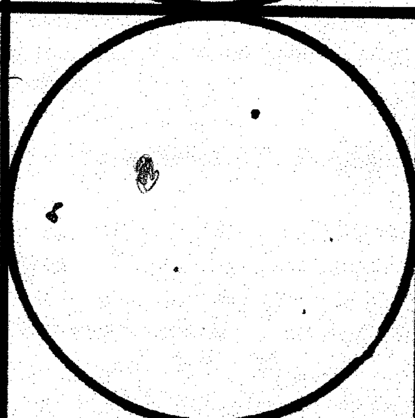


SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

ROUND, NO DETAIL

NGC	~~3144~~
CONST	3155
DATE	
TIME	3:25



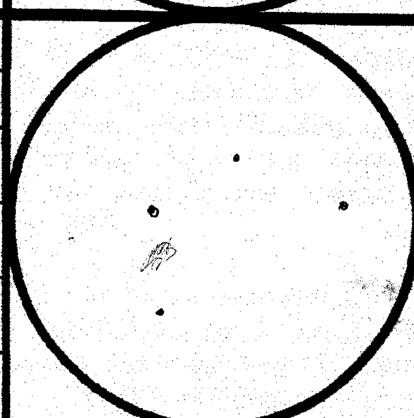
SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

NICE, NVC SEEN, DBL FJ

BUT THIS IS N3155

NGC	~~3155~~
CONST	3144
DATE	
TIME	3:30



SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

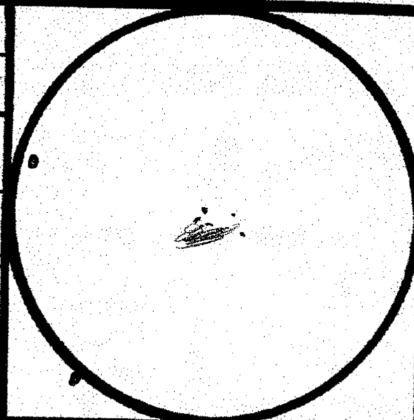
[illegible] 3144

OVAL, ELUSIVE, AV=2

COMA OVAL
DOB THING STILL BRITE

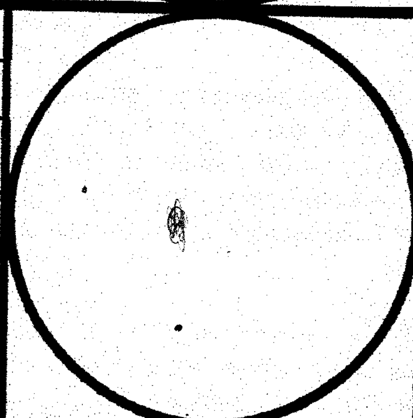
HERSCHEL OBSERVATIONS

NGC 3183	SITE ACT	SEEING II / TRANS II
CONST	INSTR 22UC	EYEPIECE 10 / POWER 240
DATE 4/26/20		
TIME 4:00		



COMMENTS
~~HAD~~ SEEN W/24mm (100X)
BUT THIS IS MUCH BETTER
WITH ELONG, NUC HINT
& STARS ON GLOW

NGC 3197	SITE ↓	SEEING ↓ / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 〃		
TIME 4:10		

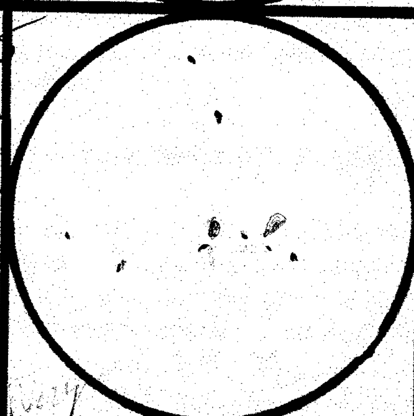


COMMENTS
TIPPED OVAL, NUC, SOME
HINTS OF GRANULARITY

*S nearby!

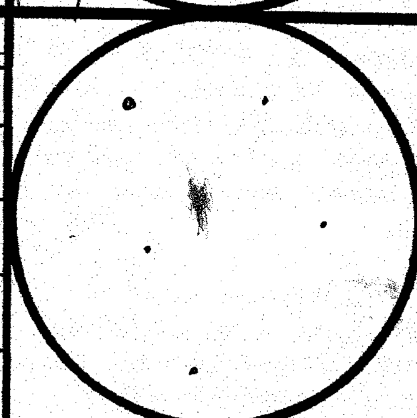
30's

NGC 3210/2/5	SITE ↓	SEEING ↓ / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 〃		
TIME 4:20		



COMMENTS
3210 non-exist STAR?
←3212
FAIR BRIGHT GLOW
←3215 MORE COMPACT, ON
END OF LINE OF *S

NGC 3252	SITE ↓	SEEING ↓ / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 〃		
TIME 4:30		



COMMENTS
VF, ~~BAR~~ ONLY SEEN
BRIGHT *S HELP

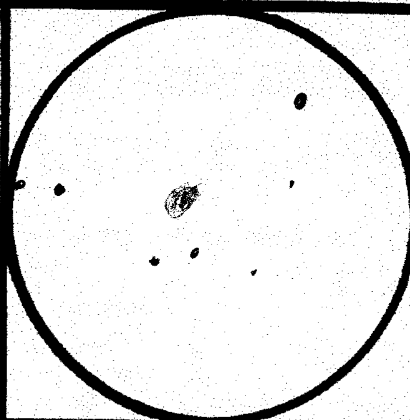
[redacted]

5:30 out

HERSCHEL OBSERVATIONS

Capella
x Flams IX
x +1

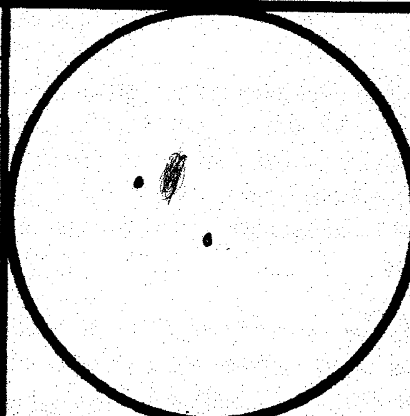
NGC 3329
CONST
DATE 4/26/20
TIME 5:00



SITE ACT | SEEING II | TRANS II
INSTR 22VC | EYEPIECE 10 | POWER 240

COMMENTS
OVAL GLOW, NUC SEEN

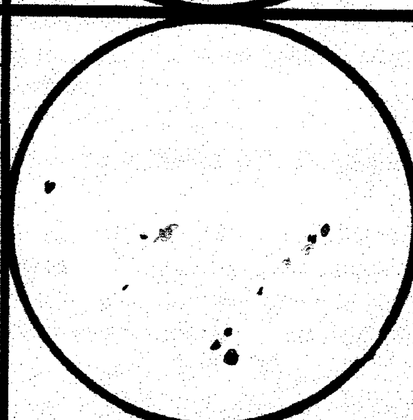
NGC 3043
CONST
DATE
TIME 5:10



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
NICE ELONG OR TIPPED
IN BETWEEN 2 FS

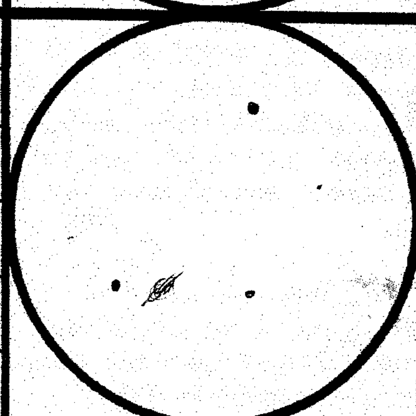
NGC 3102
CONST
DATE
TIME 5:20



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
SM, FT
VERY NICE FS

NGC 3197
CONST
DATE
TIME 5:30

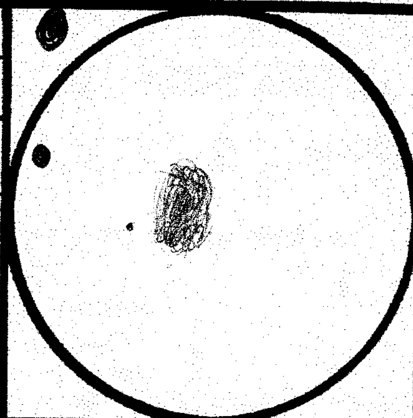


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
TIPPED, HUB BUT NO NUC

HERSCHEL OBSERVATIONS

NGC 3184
CONST
DATE 4/26/20
TIME 6:20

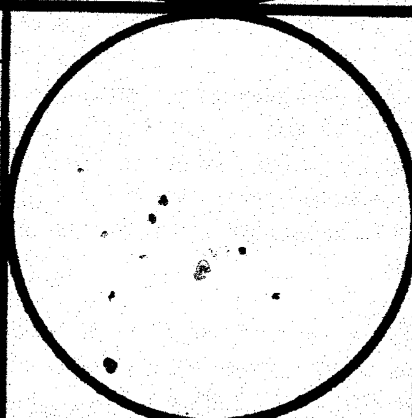


SITE ACT | SEEING II | TRANS II
INSTR 22VC | EYEPIECE 10 | POWER 240

COMMENTS
LG, SOME NUC, SOME
EXTRA GLOW PATCHES

NOT H3

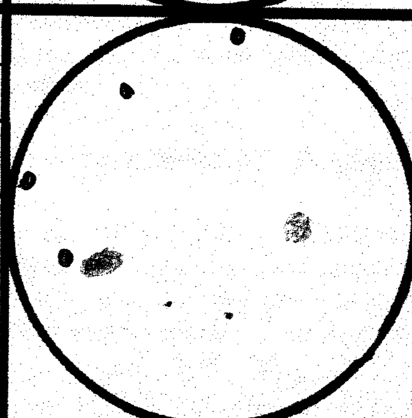
NGC 4049
CONST
DATE "
TIME 6:30



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
SMALL, NICE FS

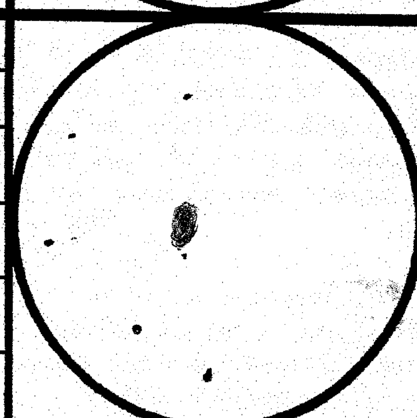
NGC 4021+
CONST
DATE "
TIME 6:40



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
RE-REVISIT!

NGC 4104
CONST
DATE "
TIME 6:50



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
OVAL GLOW, NOT DIM

	10	240

COMMENTS

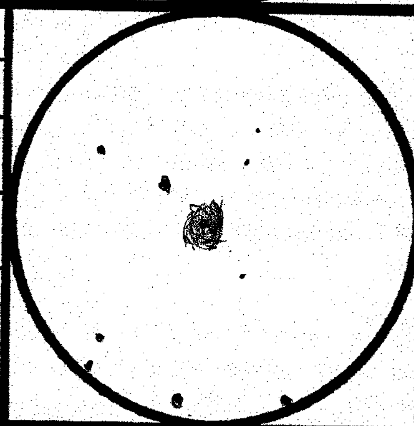
NUC ROUND GLOW

DATE 4/26/20

TIME 8:40

NGC 4162

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

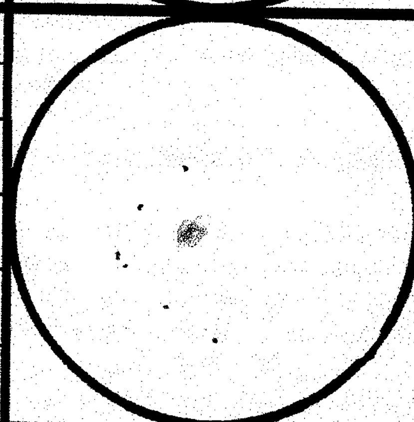
HINTS OF DETAIL IN GLOW, SMALL NUC

DATE "

TIME 7:50

NGC 4204

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

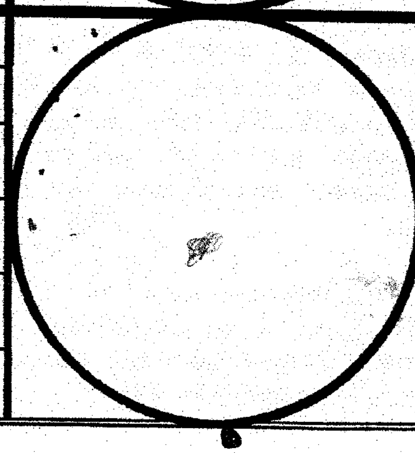
VF AV=2 NO DETAIL

DATE "

TIME 8:00

NGC 4213

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

TIPPED, RIGHT ON 7 COMA

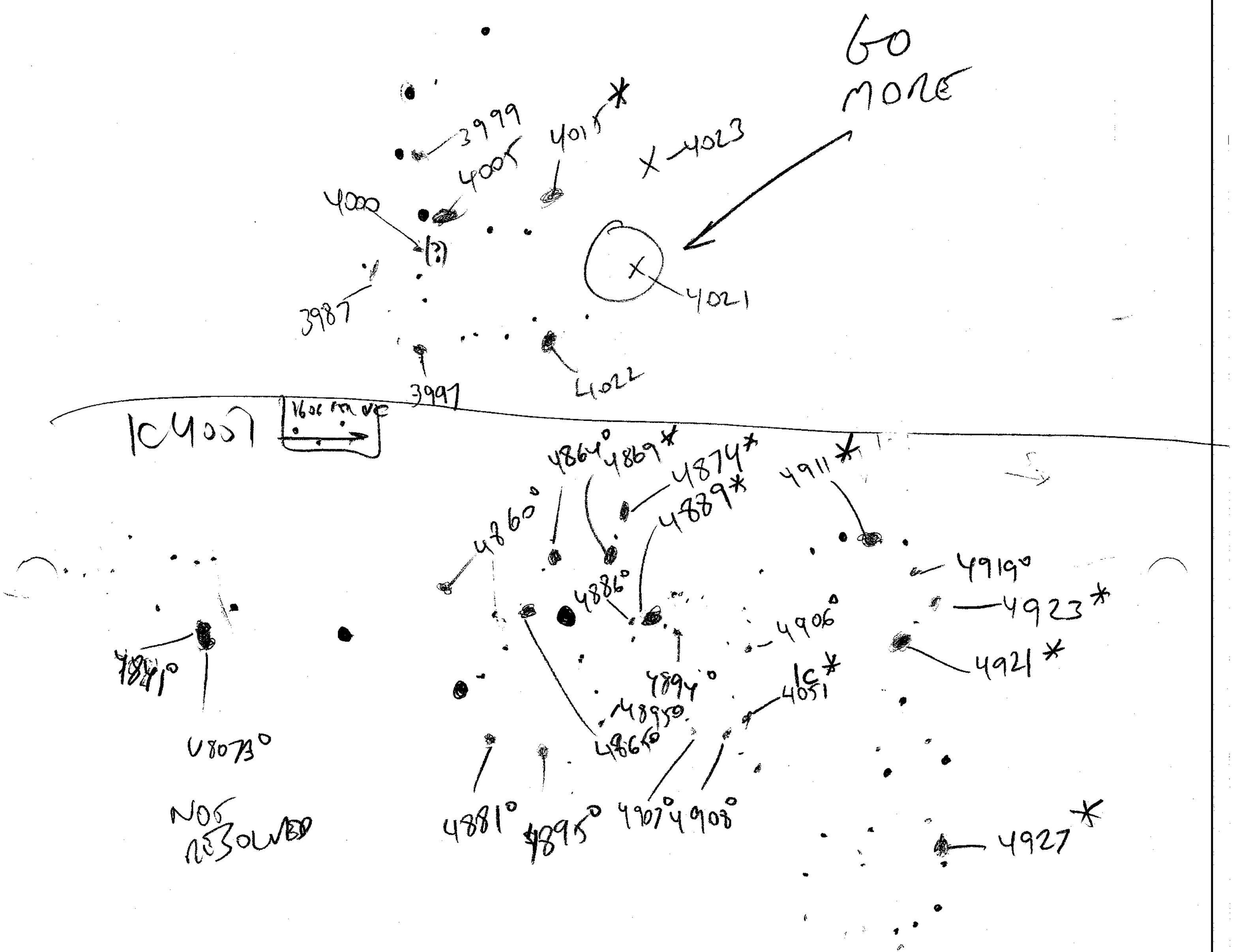
DATE "

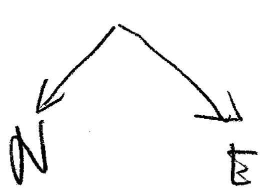
TIME 8:10

7 com

4021 AREA ~~[illegible]~~

4/26/20
7:00 UT T2



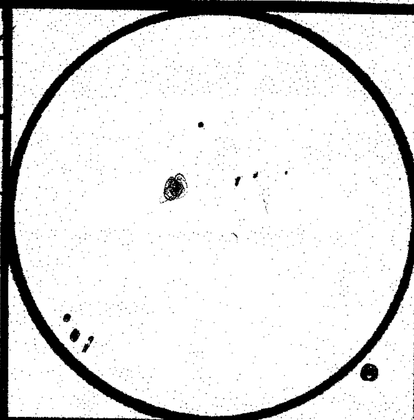


* = H4 NOT H1
O = NOT HERSCHEL

8:20 UT
4/26/20
T2

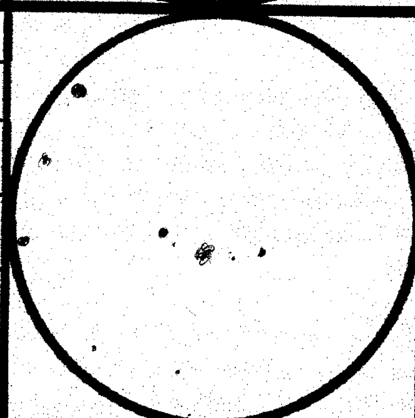
HERSCHEL OBSERVATIONS

NGC	4952
CONST	
DATE	4/26/20
TIME	9:00
SITE	ACT
SEEING	II
TRANS	II
INSTR	22 UC
EYEPIECE	10
POWER	240
COMMENTS	BLUP OR JUST NUC

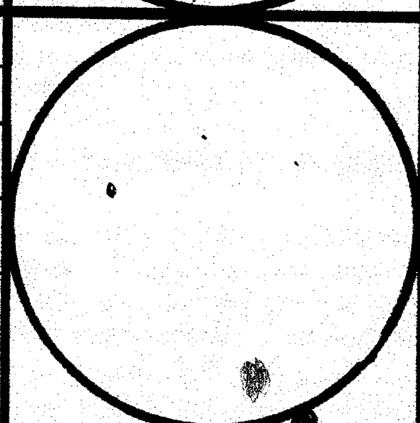


NGC	~~4961~~ 4957
CONST	
DATE	"
TIME	9:10
SITE	↓
SEEING	↓
TRANS	
INSTR	↓
EYEPIECE	↓
POWER	
COMMENTS	[illegible]

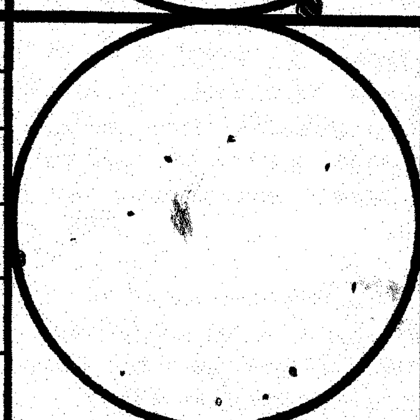
ORD



NGC	4979
CONST	
DATE	"
TIME	9:15
SITE	↓
SEEING	↓
TRANS	
INSTR	↓
EYEPIECE	↓
POWER	
COMMENTS	HAZY OVAL ON BRIGHT FS



NGC	5116
CONST	
DATE	
TIME	9:25
SITE	↓
SEEING	↓
TRANS	
INSTR	↓
EYEPIECE	↓
POWER	
COMMENTS	ELONG SOME HINTS OF ARMS



[illegible]

BUT LOOK FOR UGC 8024 AT X

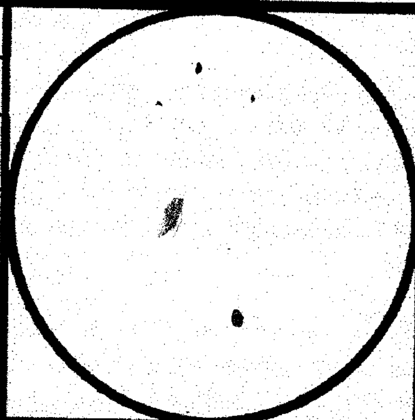
N4787 AT XX

DATE 4/26/20

TIME 9:30

NGC 4711

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

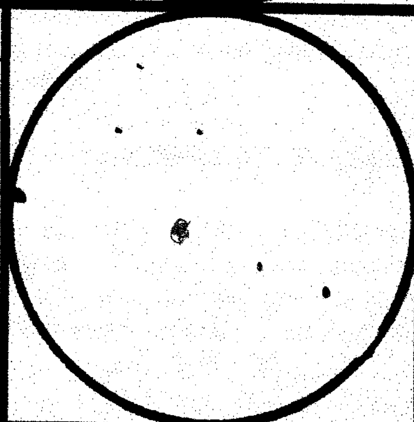
ELONG, NO DETAIL

DATE "

TIME 9:40

NGC 4719

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

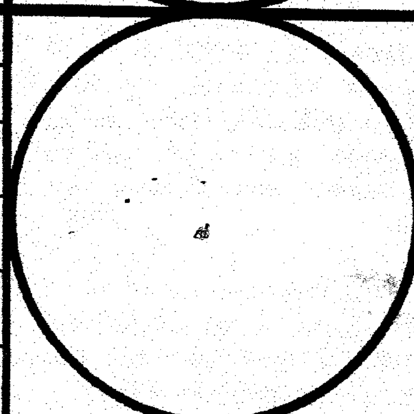
ROUND GLOW

DATE "

TIME 9:50

NGC 4737

CONST



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

VS VE

FS NO HELP

DATE "

TIME 9:58

CONST

SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

ALWAYS A TREAT

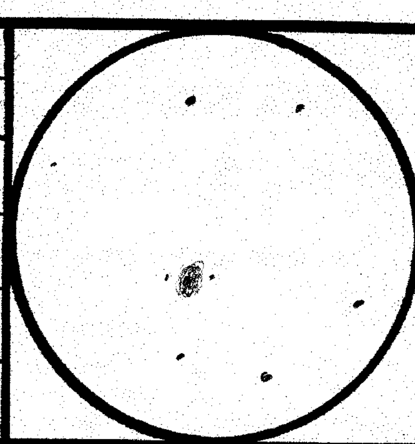
DATE "

TIME 10:15

73+

HERSCHEL OBSERVATIONS

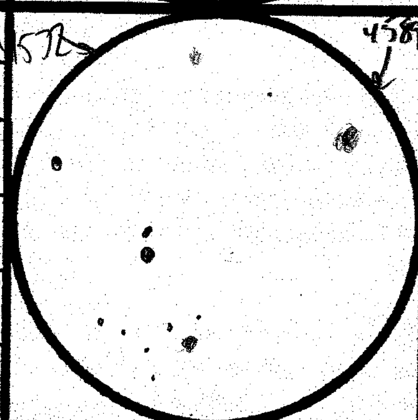
NGC 4589
CONST
DATE 4/26/20
TIME 10:20



SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
ROUND GLOW, NUC
SEEN

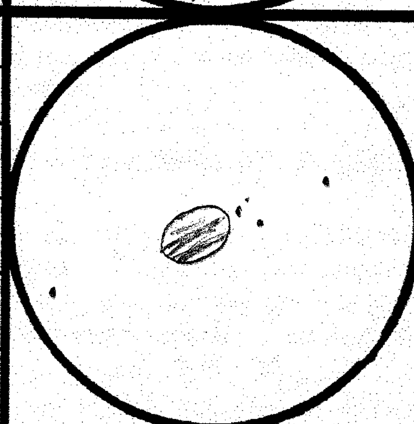
NGC 4572/
CONST 4589/
4648
486
DATE
TIME 10:30



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
4572 AV=3 NO DETAIL
4589 SAME AS ABOVE
VERY NICE 10 MAG DBL
4648 SM, ROUND GLOW

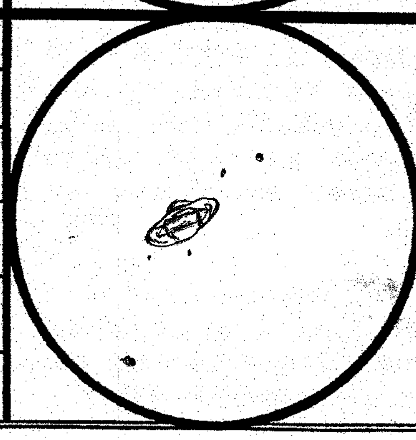
NGC ♃
CONST
DATE "
TIME 10:35



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
GREAT VIEW (FIRST OF
2020 IN SCOPE)

NGC ♄
CONST
DATE "
TIME 1045



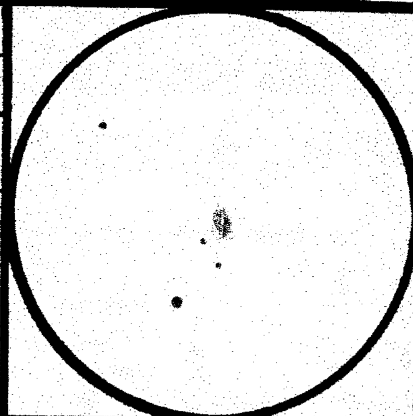
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
ALL THE USUAL
FEATURES, FIRST TELESCOPE
LOOK 2020 4 OR 5 !
MOONS !

ω Cen 3:10 45
w/ 7x50 B's (John's)

HERSCHEL OBSERVATIONS

NGC 3394
CONST
DATE 5/18/20
TIME 330

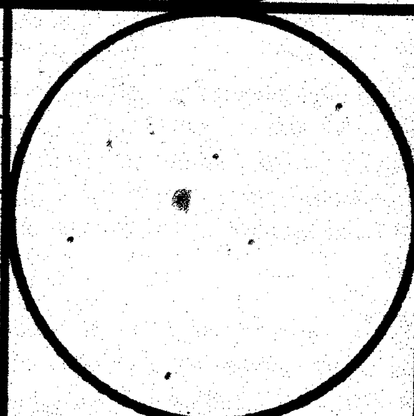


SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240

COMMENTS
3394 md size, elong, br, no detail

← 3392 actually this "star" no detail

NGC ~~3392~~
CONST
DATE "
TIME 340

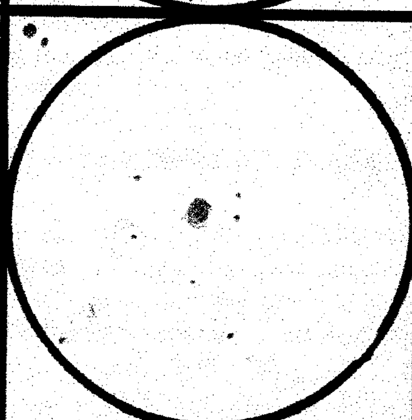


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
NO LOOK AT

CAN'T ID

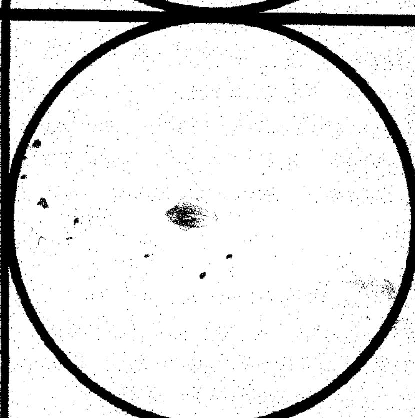
NGC C/2019
CONST T2
DATE "
TIME 350



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

COMMENTS
DC ~4 TM ~9 DIFFUSE
COMA, NO TAIL

NGC 3266
CONST
DATE "
TIME 400

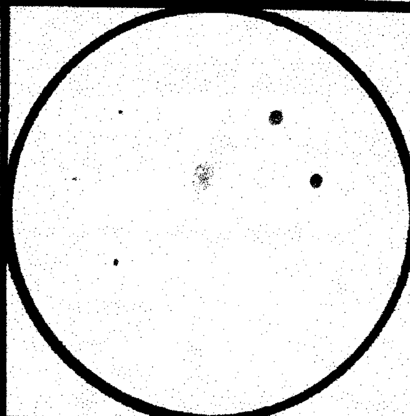


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER

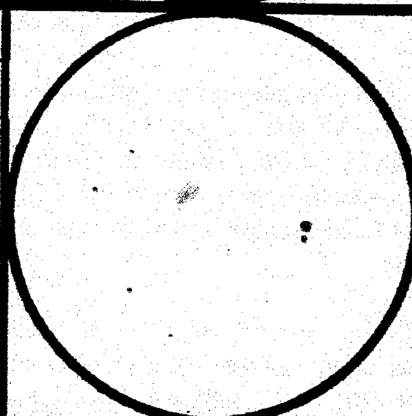
COMMENTS
OVAL, sl br, no detail

HERSCHEL OBSERVATIONS

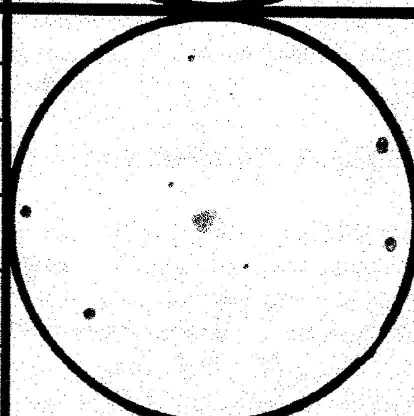
NGC	3408
CONST	
DATE	5/18/20
TIME	445
SITE	ACT
SEEING	II
TRANS	II
INSTR	22 UC
EYEPIECE	10
POWER	240
COMMENTS	SM, DIM



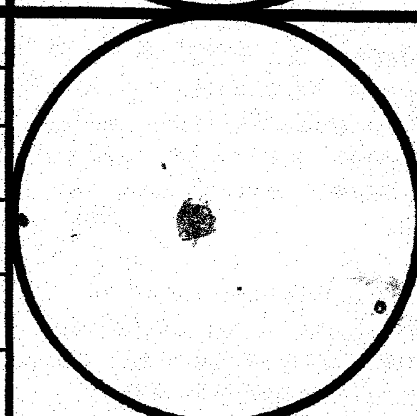
NGC	3407
CONST	
DATE	"
TIME	450
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	



NGC	3435
CONST	
DATE	"
TIME	500
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	

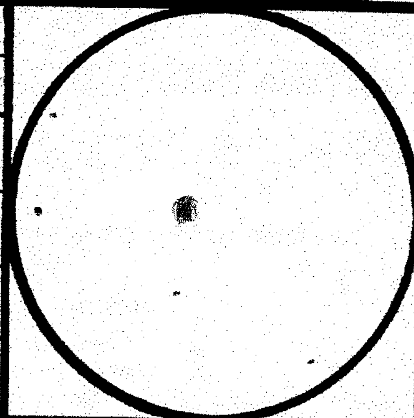


NGC	3471
CONST	
DATE	"
TIME	510
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	
COMMENTS	



HERSCHEL OBSERVATIONS

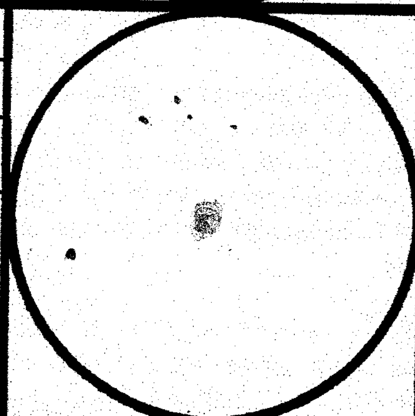
NGC	3499
CONST	
DATE	5/18/20
TIME	520



SITE	ACT	SEEING	II	TRANS	II
INSTR	22VC	EYEPIECE	10	POWER	240

COMMENTS

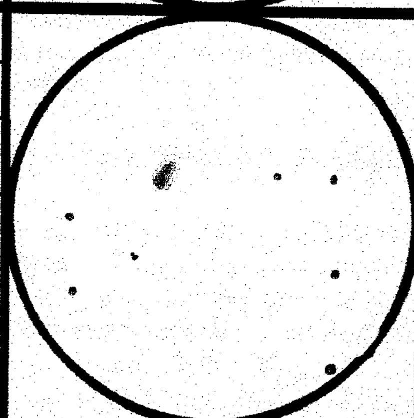
NGC	3517
CONST	
DATE	〃
TIME	630



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

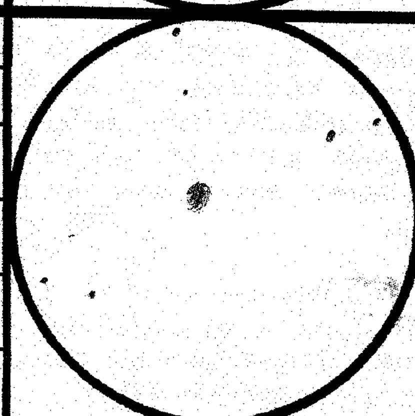
NGC	3530
CONST	
DATE	〃
TIME	640



SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

NGC	3470
CONST	
DATE	〃
TIME	650

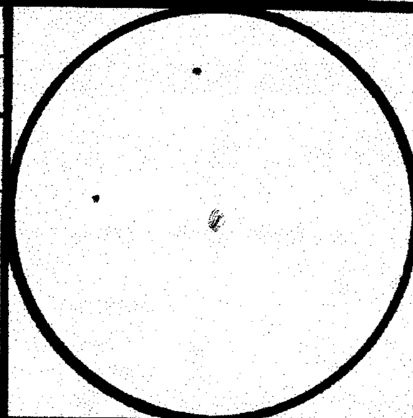


SITE	↓	SEEING	↓	TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

HERSCHEL OBSERVATIONS

NGC	4028
CONST	
DATE	5/18/20
TIME	600

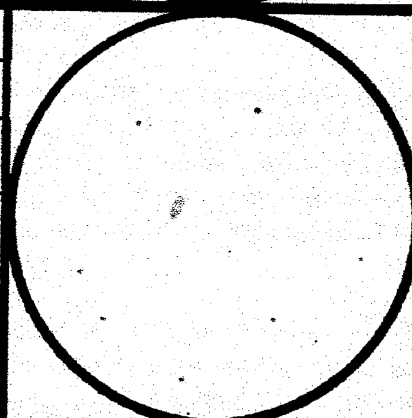


SITE	ACT	SEEING	II
		TRANS	II-
INSTR	22UC	EYEPIECE	10
		POWER	240

COMMENTS

T, D

NGC	3488
CONST	
DATE	〃
TIME	610

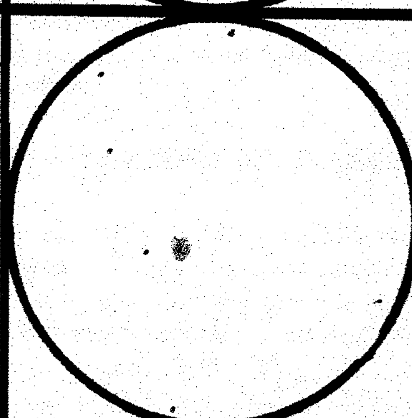


SITE	↓	SEEING	
		TRANS	↓
INSTR	↓	EYEPIECE	↓
		POWER	↓

COMMENTS

mS mD thin 13t

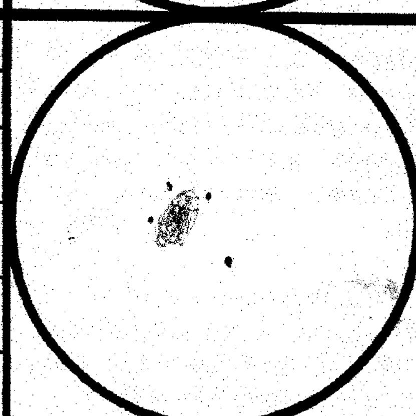
NGC	3657
CONST	
DATE	〃
TIME	620



SITE	↓	SEEING	↓
		TRANS	↓
INSTR	↓	EYEPIECE	↓
		POWER	↓

COMMENTS

NGC	3782
CONST	
DATE	〃
TIME	630



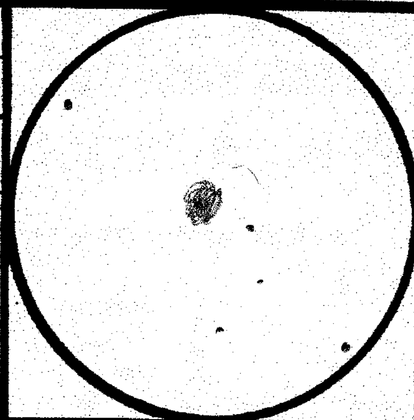
SITE		SEEING	↓
		TRANS	↓
INSTR	↓	EYEPIECE	↓
		POWER	↓

COMMENTS

HERSCHEL OBSERVATIONS

NGC 3811
CONST

DATE 5/18/20
TIME 640

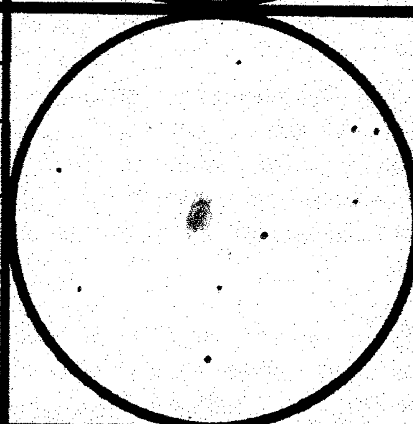


SITE	ACT	SEEING II	TRANS II-
INSTR	22 JC	EYEPIECE 10	POWER 240

COMMENTS

NGC 3870
CONST

DATE 11
TIME 650

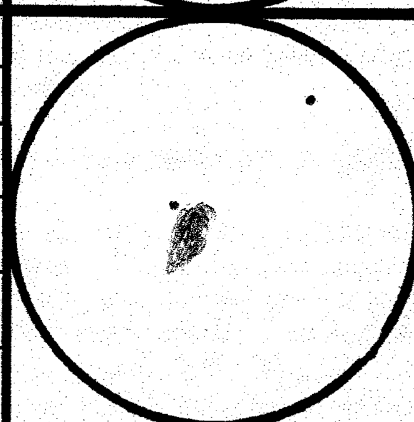


SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

NGC 3896
CONST

DATE 11
TIME 700

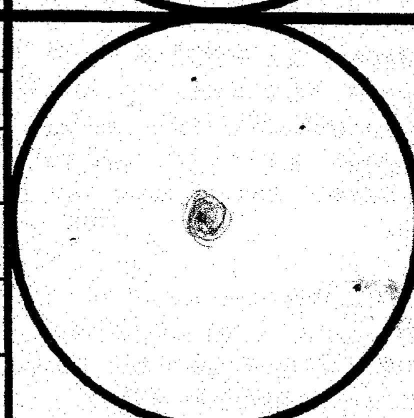


SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

NGC 3906
CONST

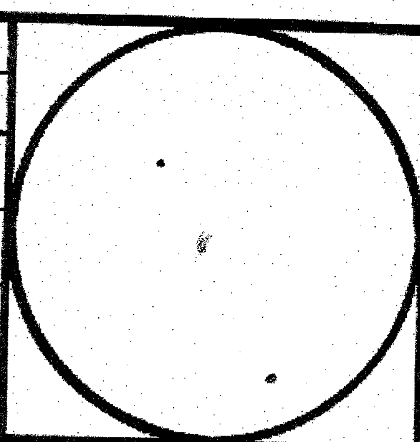
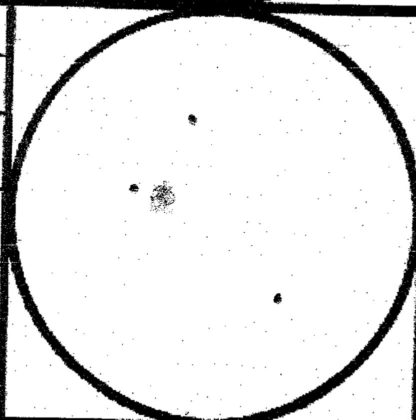
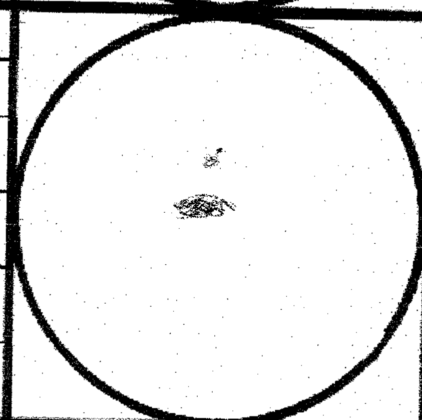
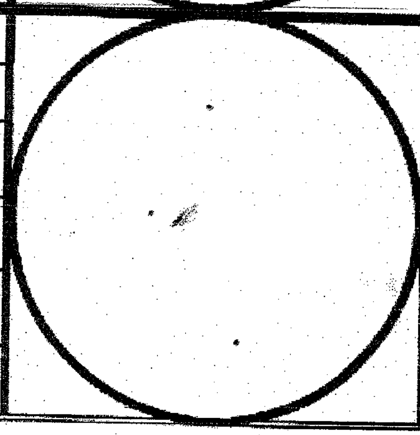
DATE 11
TIME 710



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

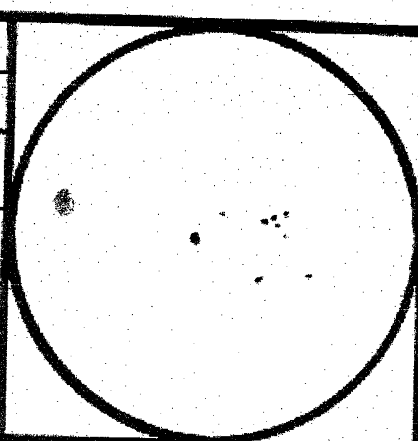
COMMENTS

HERSCHEL OBSERVATIONS

NGC 3985 CONST DATE TIME 815		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS
NGC 4181 CONST DATE TIME 920		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS
NGC 418[illegible]+A CONST DATE TIME 925		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS
NGC 4218 CONST DATE ME 930		SITE · SEEING · TRANS INSTR · EYEPIECE · POWER COMMENTS

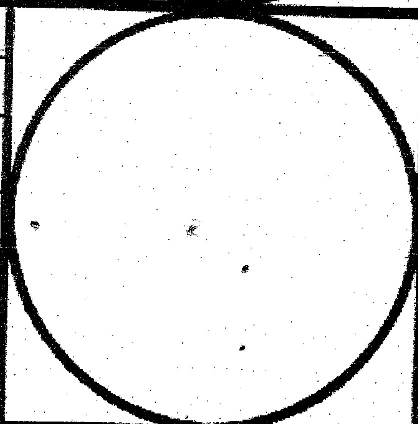
HERSCHEL OBSERVATIONS

NGC 4644
CONST
DATE
TIME 835



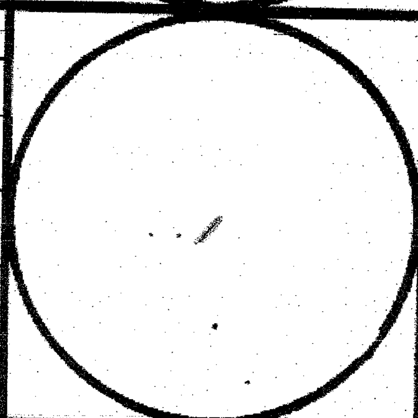
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4646
CONST
DATE
TIME 840



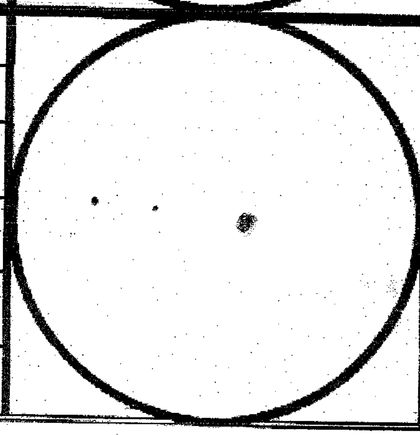
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
T, F

NGC 4675
CONST
DATE
TIME 845

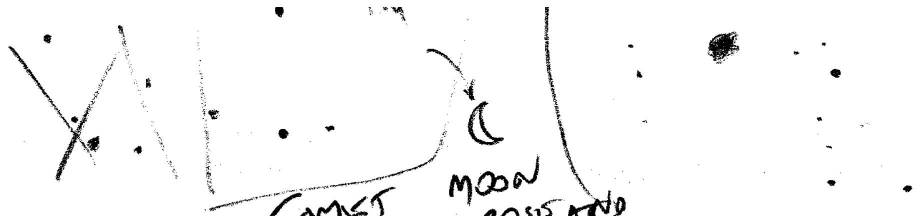


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
T, F

NGC 4686
CONST
DATE
ME 850

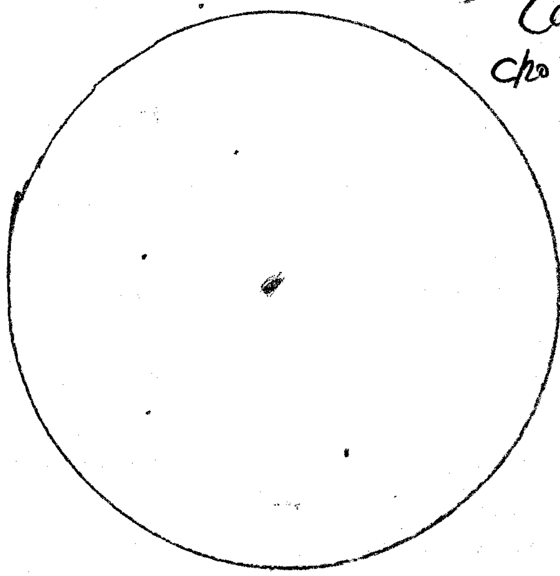


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS



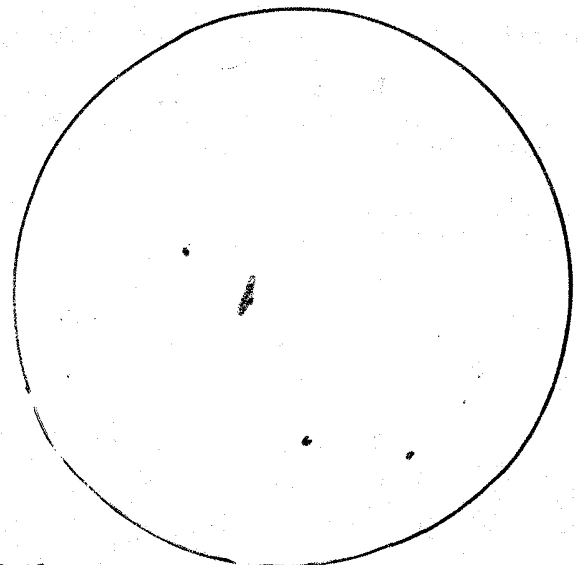
5654
9:20 UT

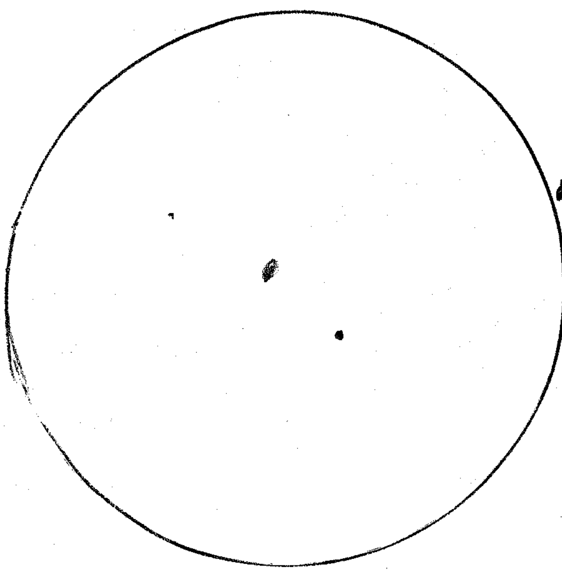
COMET MOON
ROSEANNO
C/2020 F8 SWAN @ 9:54 UT



4695 10mm T,F
8:55 UT

N4749 9:00 UT

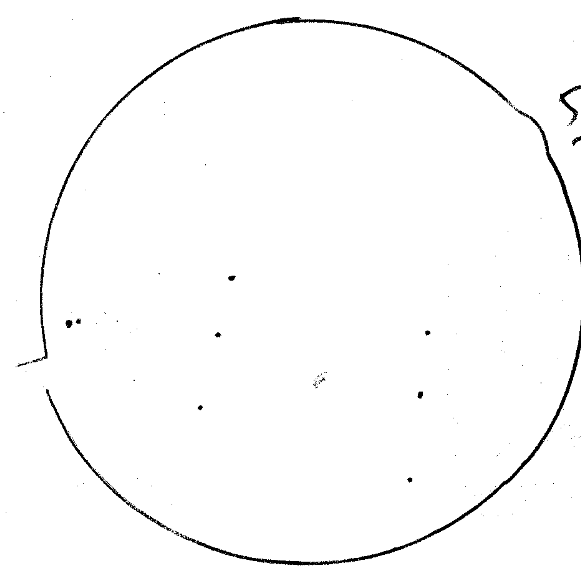




N4857
9:05 UT

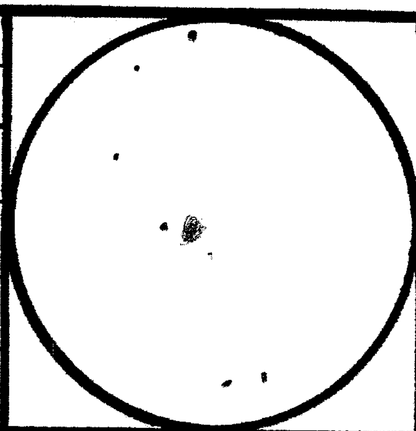
5034
T&F
9:15 UT

NS144
9:10 UT

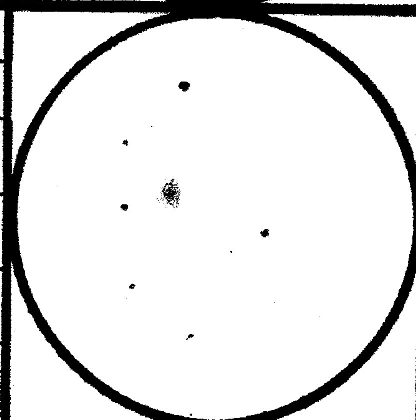


HERSCHEL OBSERVATIONS

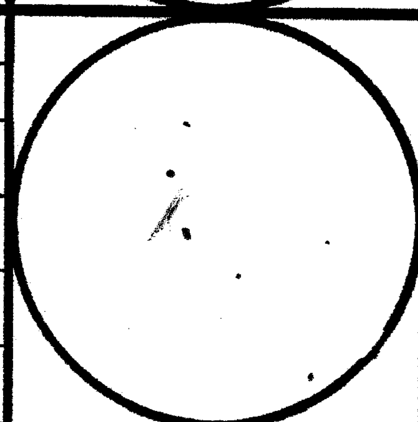
NGC 3562	SITE ACG	SEEING II / TRANS I
CONST	INSTR 22UC	EYEPIECE 10 / POWER 240
DATE 5/19/20	COMMENTS	
TIME 2:55		



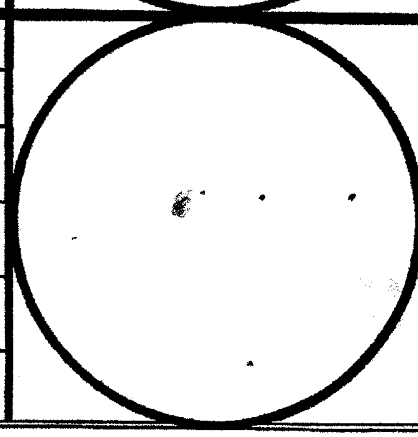
NGC 3654	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 3:00		



NGC 3879	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 3:10		

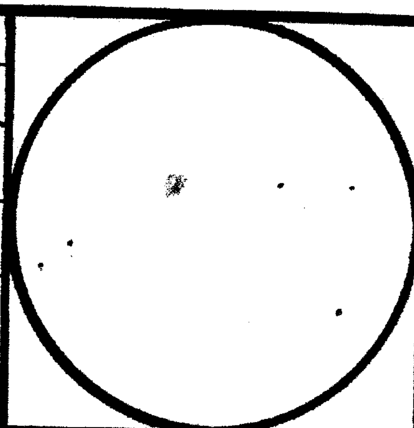


NGC 3961	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE "	COMMENTS	
TIME 3:20		



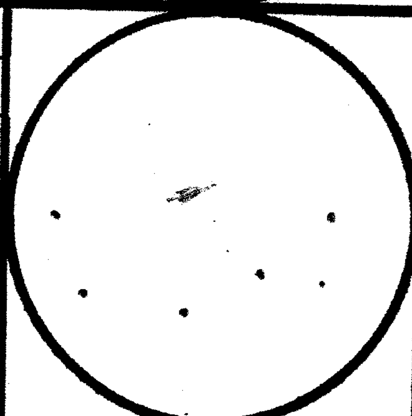
HERSCHEL OBSERVATIONS

NGC 4120
CONST
DATE 5/19/20
TIME 3:30



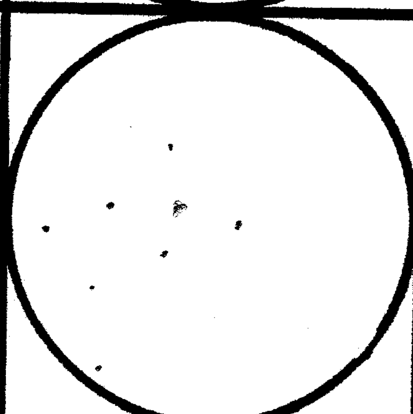
SITE ACT | SEEING II | TRANS I-
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS

NGC 4693
CONST
DATE 〃
TIME 340



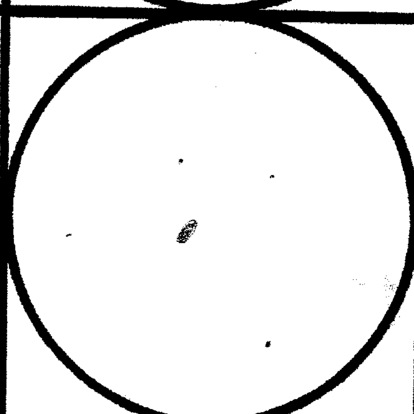
SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 3543
CONST
DATE 〃
TIME 350



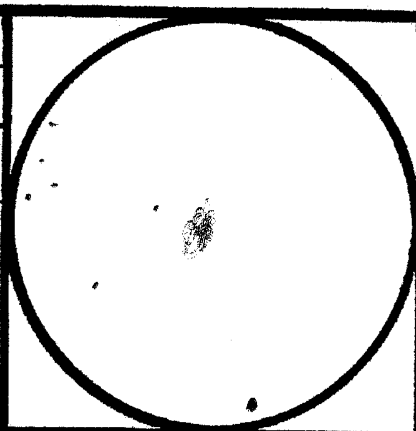
SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
T&F
Gn FS

NGC 3671
CONST
DATE 〃
TIME 400



SITE ↓ | SEEING ↓ | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
T/F

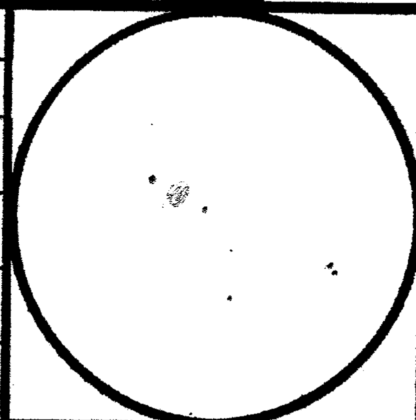
NGC	3725
CONST	
DATE	5/19/20
TIME	440



SITE	ACT	SEEING	II	TRANS	I-
INSTR	22 UC	EYEPIECE	10	POWER	240

COMMENTS

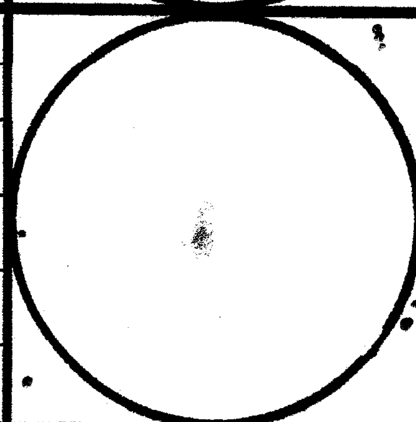
NGC	3740
CONST	
DATE	"
TIME	450



SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

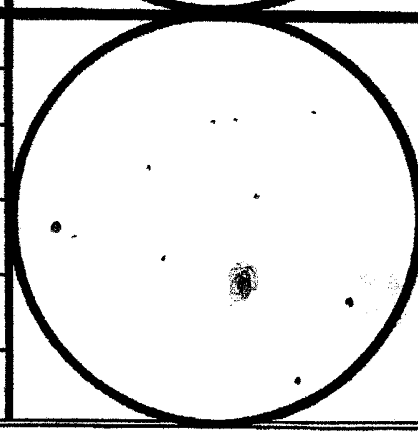
NGC	3770
CONST	
DATE	"
TIME	500



SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

NGC	3796
CONST	
DATE	"
TIME	510

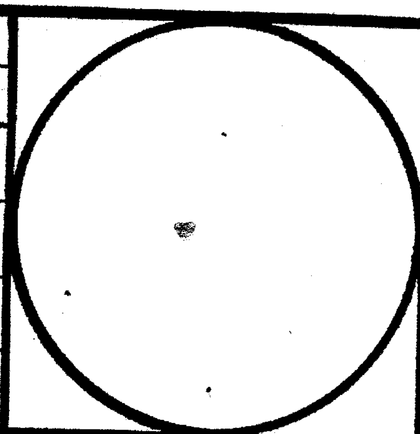


SITE		SEEING		TRANS	
INSTR		EYEPIECE		POWER	

COMMENTS

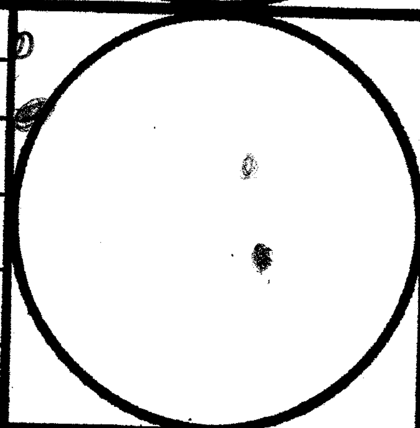
HERSCHEL OBSERVATIONS

NGC 3594
CONST
DATE 5/19/20
TIME 520



SITE ACT
SEEING II TRANS I–
INSTR 22UC
EYEPIECE 10 POWER 240
COMMENTS
T/F

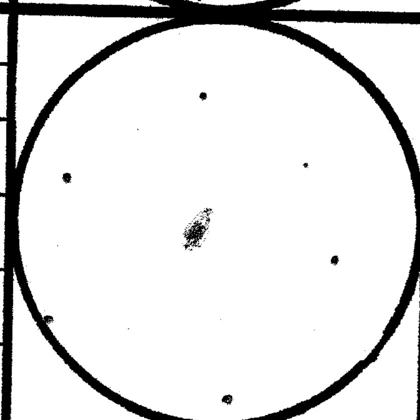
NGC 3625/19/10
CONST
DATE 〃
TIME 530



SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

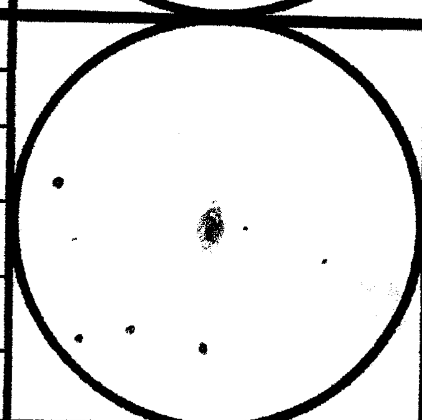
3619
3610
[illegible]
H I 5

NGC 3674
CONST
DATE 〃
TIME 535



SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

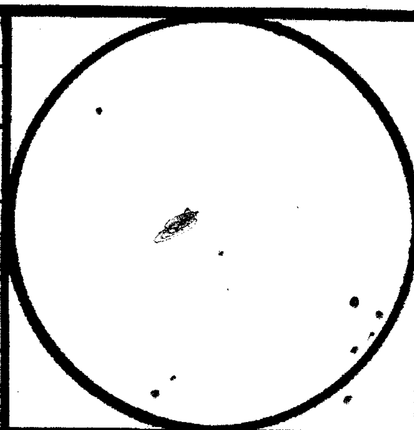
NGC 3759
CONST
DATE 〃
TIME 540



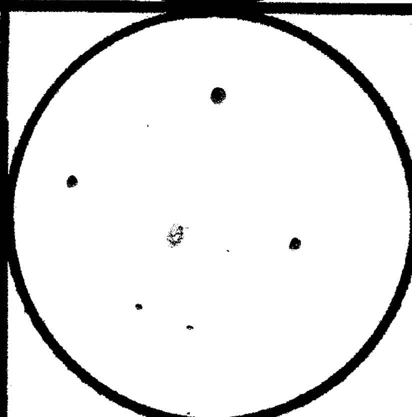
SITE
SEEING TRANS
INSTR
EYEPIECE POWER
COMMENTS

HERSCHEL OBSERVATIONS

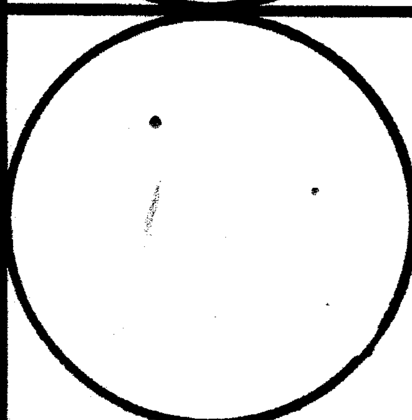
NGC 3762	SITE Act	SEEING II	TRANS I—
CONST	INSTR 22NC	EYEPIECE 10	POWER 240
DATE 5/19/20	COMMENTS		
TIME 545			



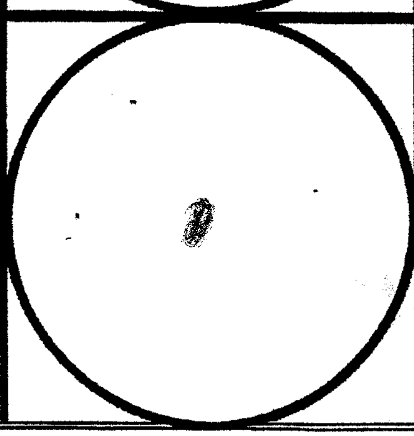
NGC 3794	SITE 〃	SEEING 〃	TRANS
CONST	INSTR 〃	EYEPIECE 〃	POWER
DATE 〃	COMMENTS		
TIME 550			



NGC 3795	SITE 〃	SEEING 〃	TRANS
CONST	INSTR 〃	EYEPIECE 〃	POWER
DATE 〃	COMMENTS GHOST		
TIME 555			



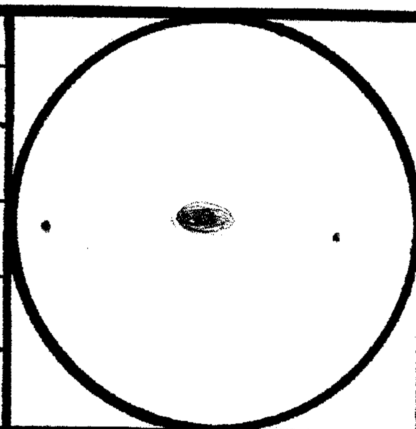
NGC 3811	SITE 〃	SEEING 〃	TRANS
CONST	INSTR 〃	EYEPIECE 〃	POWER
DATE 〃	COMMENTS LG, F		
TIME 600			



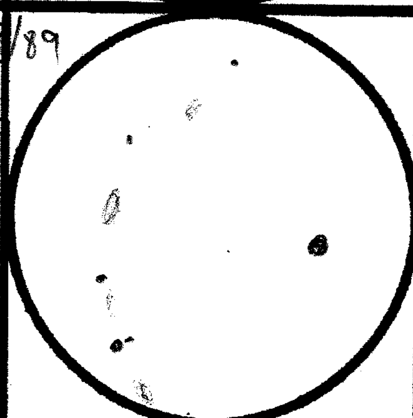
H2

HERSCHEL OBSERVATIONS

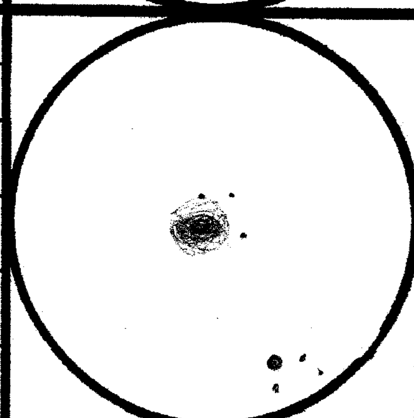
NGC 3838	SITE ACT	SEEING II / TRANS II
CONST	INSTR 22UC	EYEPIECE 10 / POWER 240
DATE 5/19/20	COMMENTS	
TIME 605		



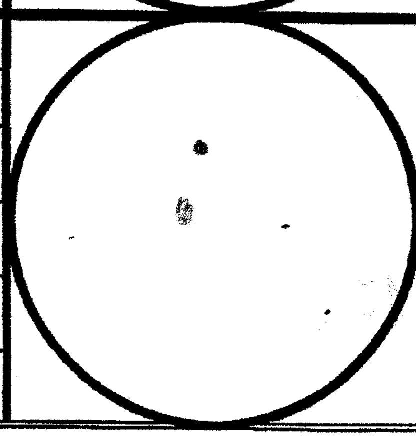
NGC 3849/50/88/89	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE ″	COMMENTS	
TIME 610		



NGC 3978	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE ″	COMMENTS	
TIME 615		

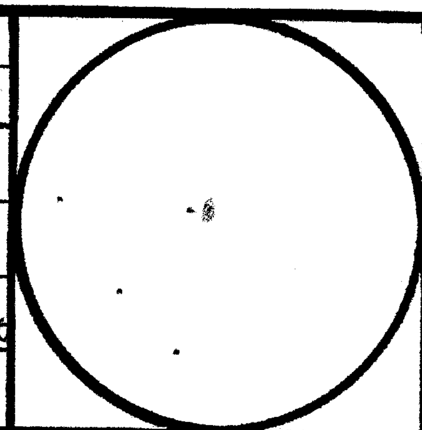


NGC 4034	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE ″	COMMENTS	
TIME 620	VVF	



HERSCHEL OBSERVATIONS

NGC	4054
CONST	
DATE	5/19/20
TIME	625

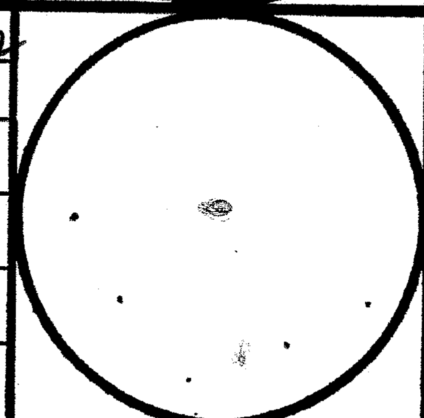


SITE	ACT	SEEING II	TRANS II
INSTR	22 UC	EYEPIECE 10	POWER 240

COMMENTS

T/VF/STARLIKE

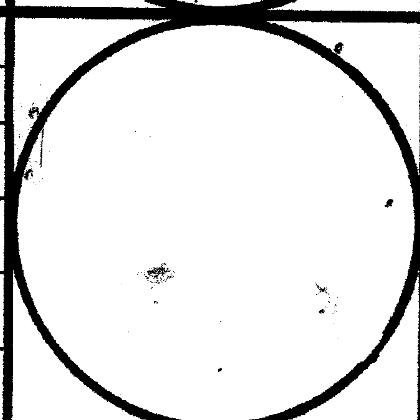
NGC	4231/32
CONST	
DATE	"
TIME	630



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

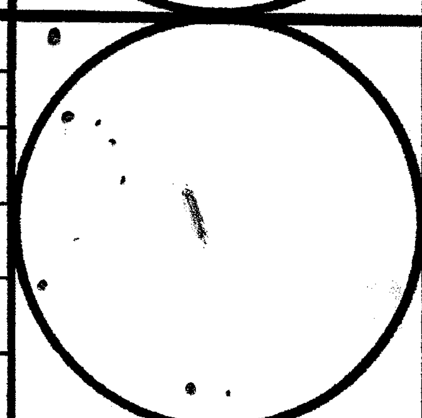
NGC	4198
CONST	
DATE	"
TIME	635



SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

NGC	4149
CONST	
DATE	"
TIME	6·40

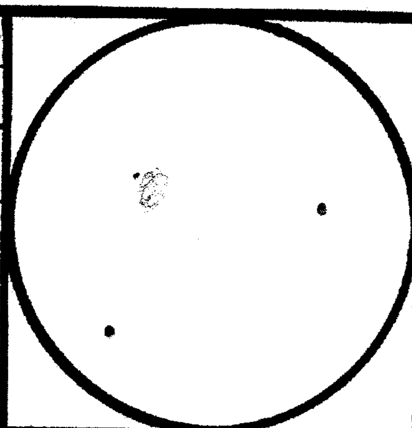


SITE		SEEING	TRANS
INSTR		EYEPIECE	POWER

COMMENTS

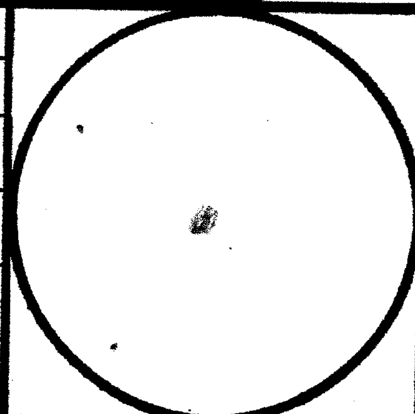
HERSCHEL OBSERVATIONS

NGC 4172
CONST
DATE 5/19/20
TIME 648



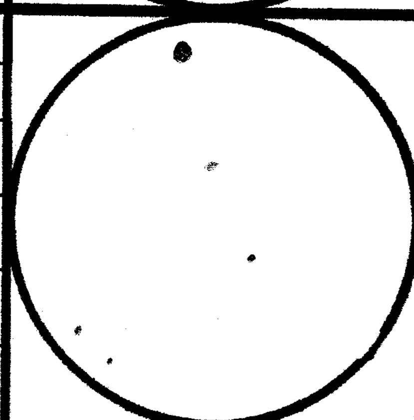
SITE ACT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS

NGC 4195
CONST
DATE "
TIME 650



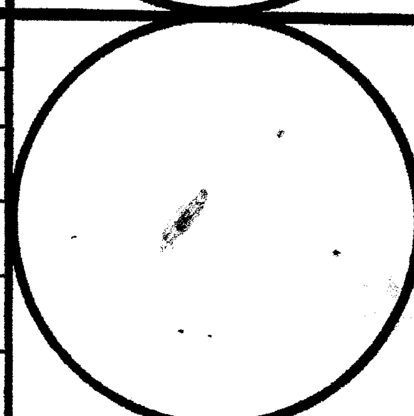
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4199
CONST
DATE "
TIME 655



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
VVT VVF
ONLY 1

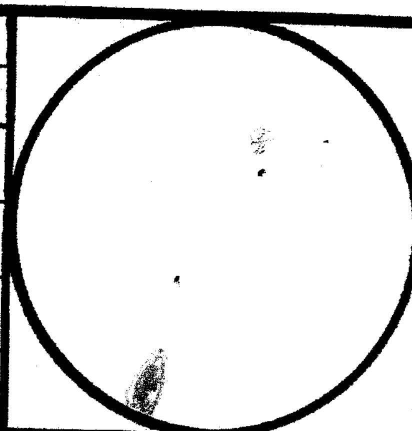
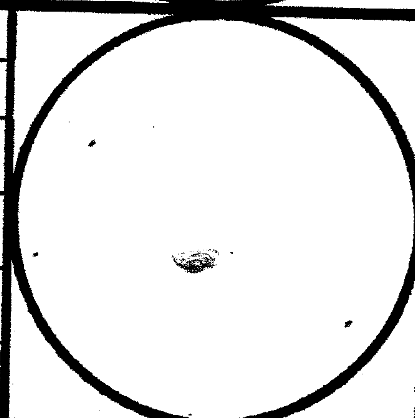
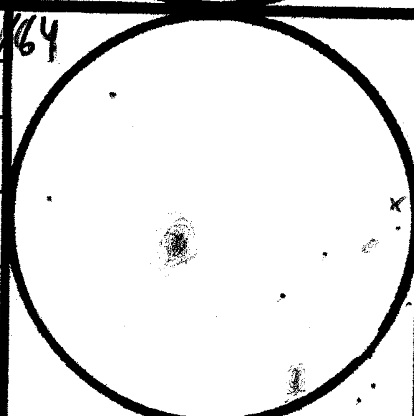
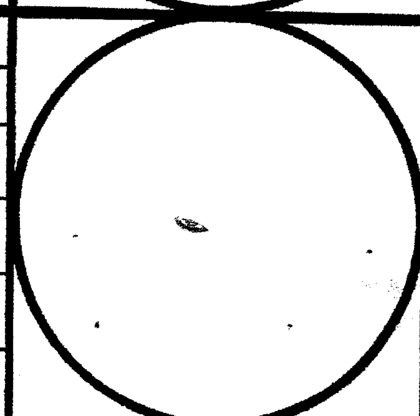
NGC 4210
CONST
DATE "
TIME 700



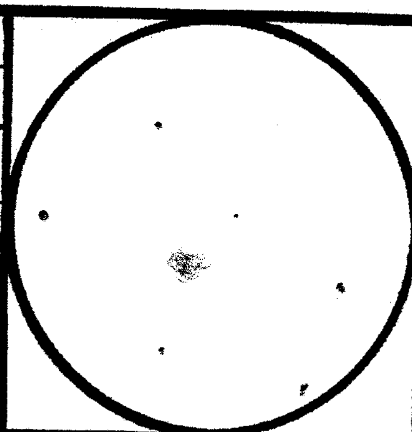
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

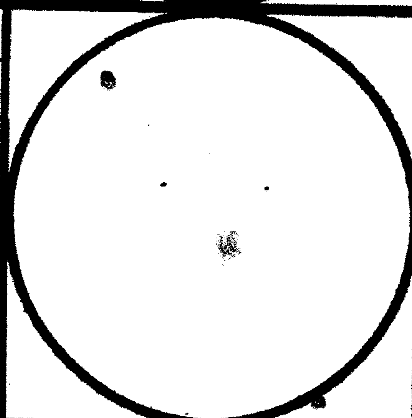
HERSCHEL OBSERVATIONS

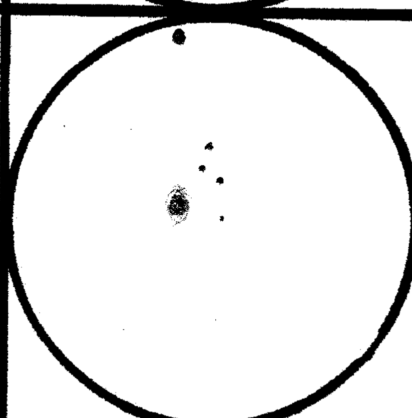
4290
#2

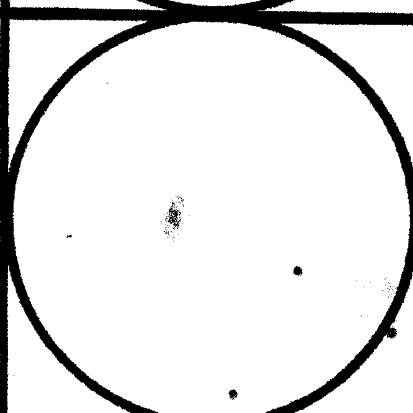
NGC 4284/90 (1) CONST DATE 5/19/20 TIME 715		SITE ACT · SEEING II · TRANS II INSTR 22UC · EYEPIECE 10 · POWER 240 COMMENTS ←84 AV=2
NGC 4335 CONST DATE 〃 TIME 720		SITE ✓ · SEEING ✓ · TRANS INSTR · EYEPIECE · POWER COMMENTS
NGC 4358/64 CONST /62 DATE 〃 TIME 730		SITE ✓ · SEEING ✓ · TRANS INSTR · EYEPIECE · POWER COMMENTS ←62 ←64
NGC 4238 CONST DATE 〃 740		SITE · SEEING · TRANS INSTR ✓ · EYEPIECE ✓ · POWER COMMENTS AV=2

HERSCHEL OBSERVATIONS

NGC 4332		SITE ACT — SEEING II — TRANS II
CONST		INSTR 22UC — EYEPIECE — POWER
		COMMENTS
DATE 8/19/20		
TIME 750		

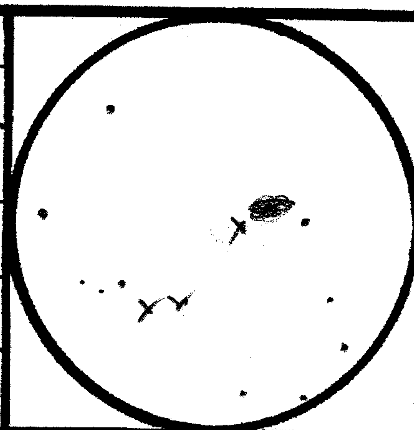
NGC 4384		SITE — SEEING — TRANS
CONST		INSTR — EYEPIECE — POWER
		COMMENTS
DATE 〃		
TIME 800		

NGC 4391		SITE — SEEING — TRANS
CONST		INSTR — EYEPIECE — POWER
		COMMENTS
DATE 〃		
TIME 810		

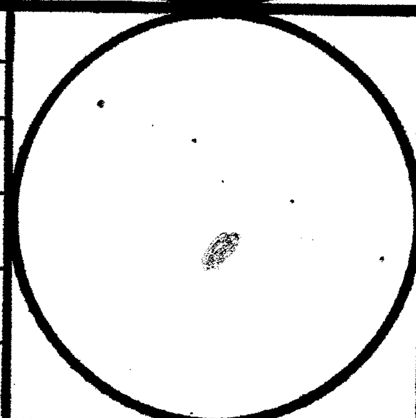
NGC 4441		SITE — SEEING — TRANS
CONST		INSTR — EYEPIECE — POWER
		COMMENTS
DATE 〃		
TIME 820		

HERSCHEL OBSERVATIONS

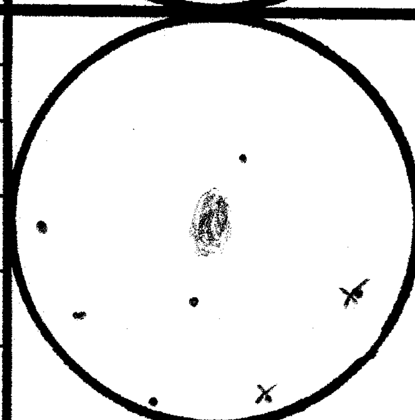
NGC	4580	SITE	Acr	SEEING	II-	TRANS	III
CONST		INSTR	22 UC	EYEPIECE	10	POWER	240
DATE	5/19/20	TIME	840	COMMENTS			



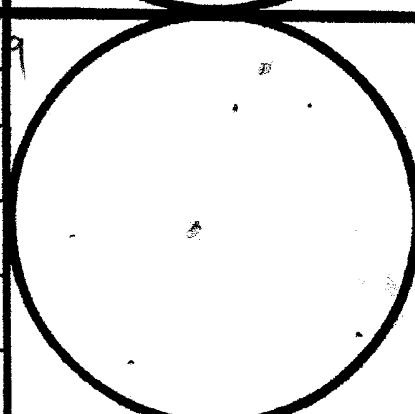
NGC	4566	SITE		SEEING		TRANS	
CONST		INSTR		EYEPIECE		POWER	
DATE	"	TIME	850	COMMENTS			



NGC	4617	SITE		SEEING		TRANS	
CONST		INSTR		EYEPIECE		POWER	
DATE	"	TIME	855	COMMENTS			

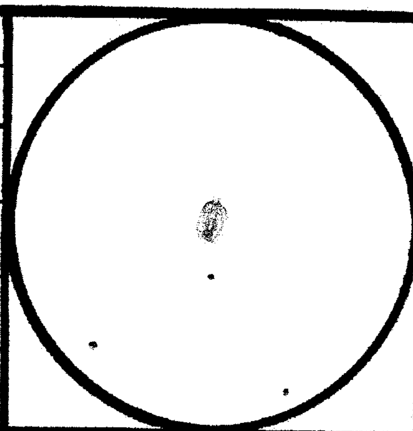


NGC	4547/9	SITE		SEEING		TRANS	
CONST		INSTR		EYEPIECE		POWER	
DATE	"	TIME	900	COMMENTS	VF/T X2		



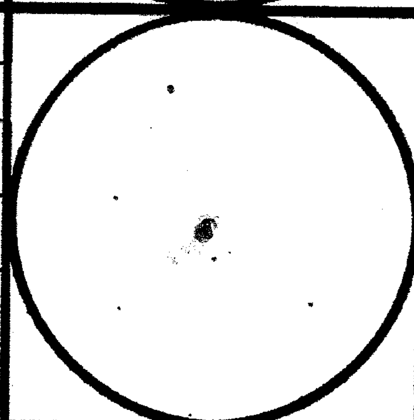
HERSCHEL OBSERVATIONS

NGC 4701
CONST
DATE 5/19/20
TIME 910



SITE AGT | SEEING II | TRANS II
INSTR 22UC | EYEPIECE 10 | POWER 240
COMMENTS
AV22

NGC 4732
CONST
DATE "
TIME 920



SITE ↓ | SEEING | TRANS
INSTR | EYEPIECE ↓ | POWER
COMMENTS

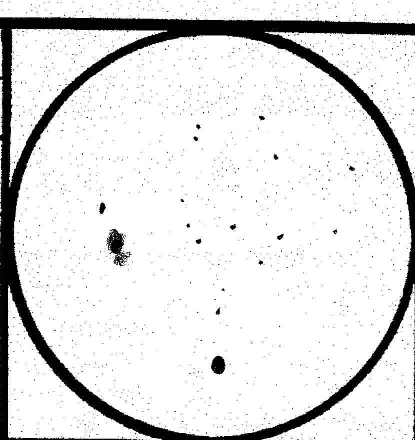
NGC
CONST
DATE
TIME

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC
CONST
DATE
TIME

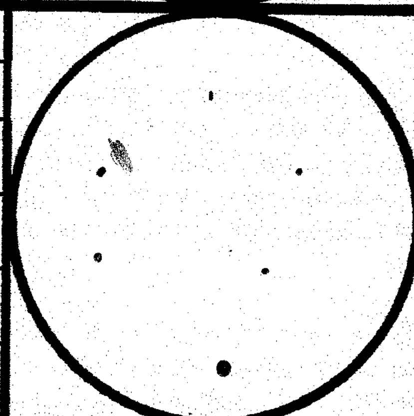
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

HERSCHEL OBSERVATIONS



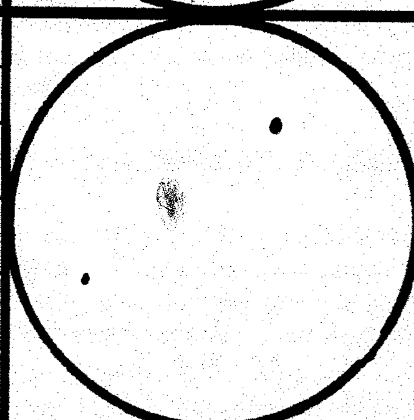
NGC	4841 A/B
CONST	
DATE	4/21/20
TIME	210
SITE	ACT
SEEING	II
TRANS	III
INSTR	22UC
EYEPIECE	10
POWER	240

COMMENTS
MD ROUND (A) NO DETAIL
B NEXT TO IT, F, SM



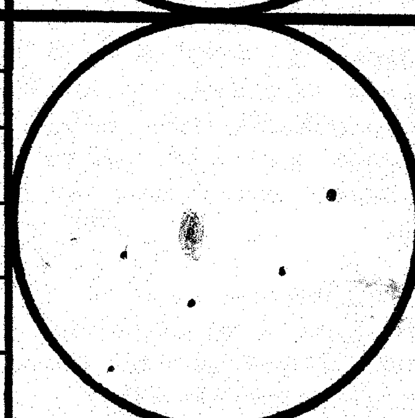
NGC	5492
CONST	
DATE	"
TIME	220
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	

COMMENTS
ELONG, NEXT TO FS



NGC	5180
CONST	
DATE	"
TIME	225
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	

COMMENTS
LG, NOT TOO F
SOME NUC

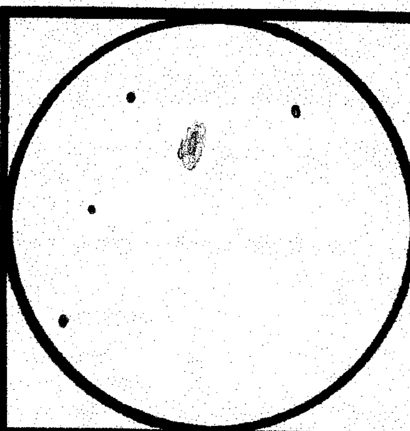


NGC	5249
CONST	
DATE	"
TIME	230
SITE	↓
SEEING	↓
TRANS	
INSTR	
EYEPIECE	
POWER	

COMMENTS
TIPPED, NUC SEEN

HERSCHEL OBSERVATIONS

NGC	5513
CONST	
DATE	4/21/20
TIME	240
SITE	ACT
SEEING	II
TRANS	III
INSTR	22UC
EYEPIECE	10
POWER	240

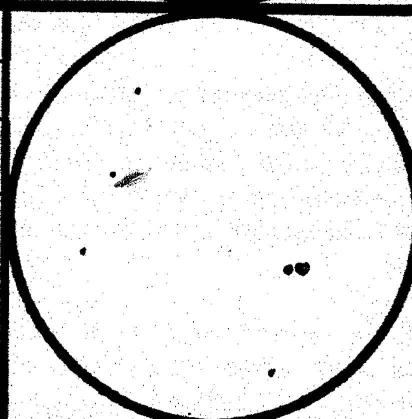


COMMENTS

NOT SMALL, A LITTLE

HINT OF ARC OR BAR

NGC	5522
CONST	
DATE	4
TIME	250
SITE	
SEEING	
TRANS	
INSTR	
EYEPIECE	
POWER	

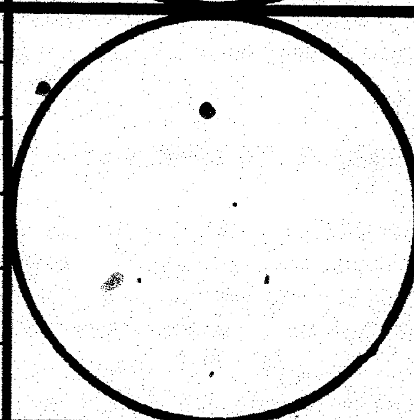


COMMENTS

TINY FLAT NEAR DBL

NGC	5331
CONST	
DATE	4
TIME	255
SITE	
SEEING	II
TRANS	III-
INSTR	
EYEPIECE	10
POWER	240

5329



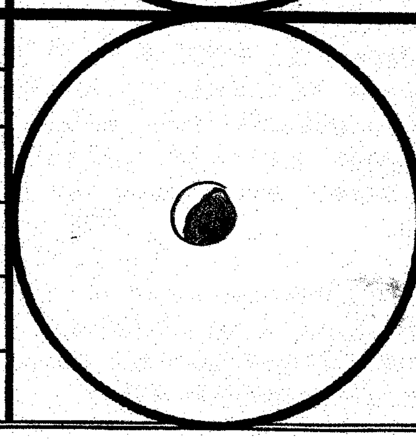
COMMENTS

ONLY 1

NOT MUCH BETTER

AT 3:20 OUT M/W

NGC	♀
CONST	
DATE	"
TIME	125
SITE	
SEEING	III
TRANS	II
INSTR	
EYEPIECE	10
POWER	240



COMMENTS

SHOWED ADAM K. & HIS FRIEND

ABOUT 1/2 THIS ACTUAL SIZE

NGC 4857	Galaxy	12:57.2	+70:12		13.8	Dra	
NGC 4841A	Galaxy	12:57.5	+28:29	0.6	12.8	Com	
NGC 4869	Galaxy	12:59.4	+27:55	2.4	13.8	Com	48
NGC 4874	Galaxy	12:59.6	+27:58	1.5	11.7	Com	
NGC 4892	Galaxy	13:00.0	+26:54	2.8	13.9	Com	49
IC 4051	Galaxy	13:00.9	+28:00	0.6'x0.3'	13.2	Com	50
NGC 4952	Galaxy	13:05.0	+29:08	1.1	12.4	Com	51
NGC 4961	Galaxy	13:05.8	+27:44	1.0	13.6	Com	52
NGC 4979	Galaxy	13:07.6	+24:49	1.5	13.8	Com	53
NGC 5034	Galaxy	13:12.2	+70:39		13.2	UMi	
NGC 5116	Galaxy	13:22.9	+26:59	0.7	12.7	Com	54
NGC 5144	Galaxy	13:22.9	+70:31		13.1	UMi	
NGC 5180	Galaxy	13:29.4	+16:49	1.2	13.0	Com	
NGC 5249	Galaxy	13:37.6	+15:58	1.6	12.9	Boo	
NGC 5263	Galaxy	13:40.0	+28:24	1.0	13.3	CVn	55
NGC 5331	Galaxy	13:52.4	+2:06	1.3	14.1	Vir	
NGC 5492	Galaxy	14:10.5	+19:37	1.9	12.8	Boo	
NGC 5513	Galaxy	14:13.2	+20:26	2.1	12.6	Boo	
NGC 5522	Galaxy	14:14.8	+15:09	0.8	13.5	Boo	
NGC 5559	Galaxy	14:19.1	+24:48		14.0	Boo	56
NGC 5594	Galaxy	14:23.2	+26:15	2.0	14.0	Boo	57
NGC 5610	Galaxy	14:24.3	+24:36	1.6	13.2	Boo	58
NGC 5654	Galaxy	14:29.9	+36:21	1.9	12.9	Boo	59
	32	>+70					
	213	left					

4869/74 Y

B? NO

?? or ?

4841A Y

~~NEEDS~~ ~~340~~

Y

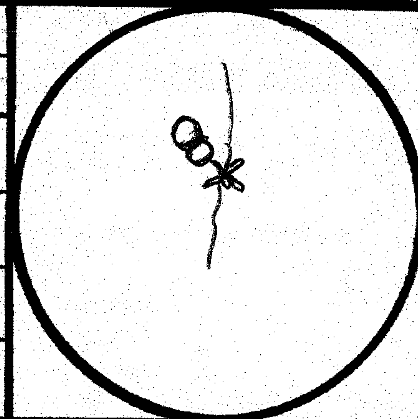
4892 NEEDS 350

to 4UT

IC4051 REVISIT

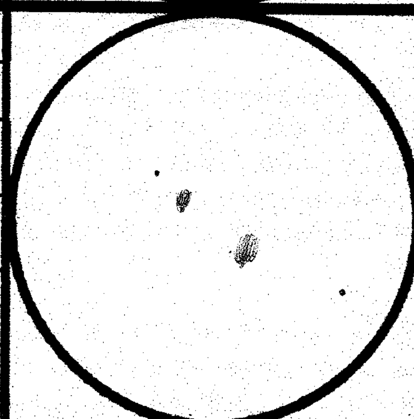
HERSCHEL OBSERVATIONS

NGC Lunar X
CONST
DATE 4/30/20
TIME 2:00



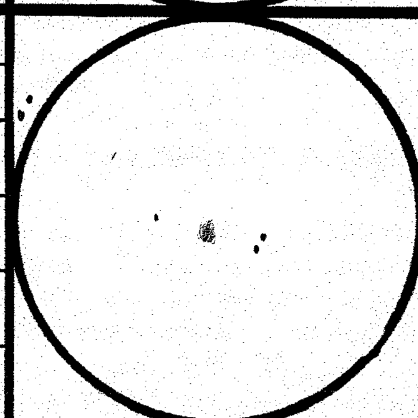
SITE Act | SEEING II | TRANS I
INSTR 22UC | EYEPIECE 24 | POWER 130
COMMENTS
Lunar X

NGC 3065/6
CONST
DATE "
TIME 540



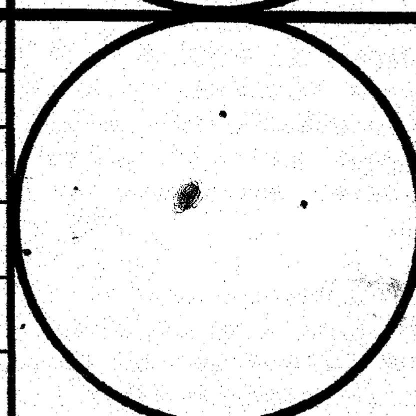
SITE | SEEING | TRANS
INSTR | EYEPIECE 10 | POWER 240
COMMENTS

NGC 3343
CONST
DATE "
TIME 545



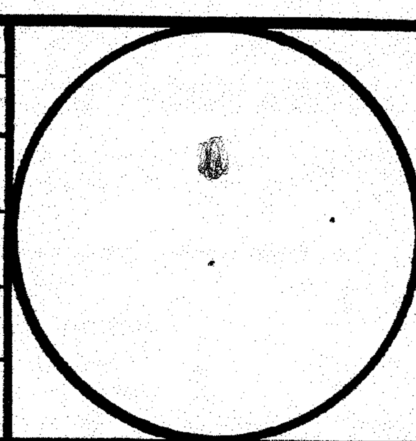
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

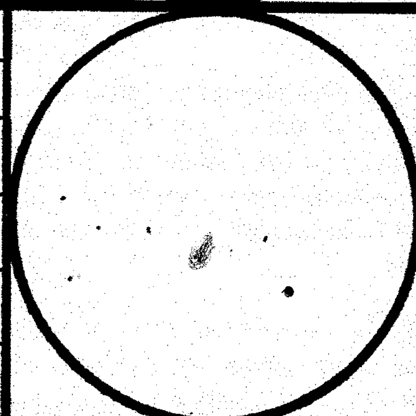
NGC 3465
CONST
DATE "
TIME 530

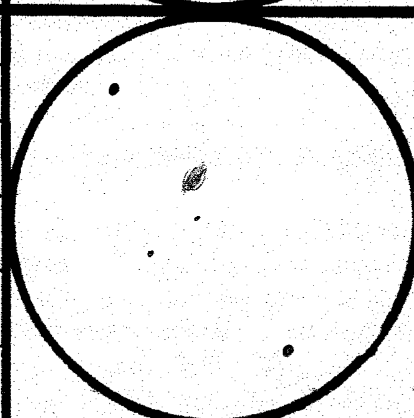


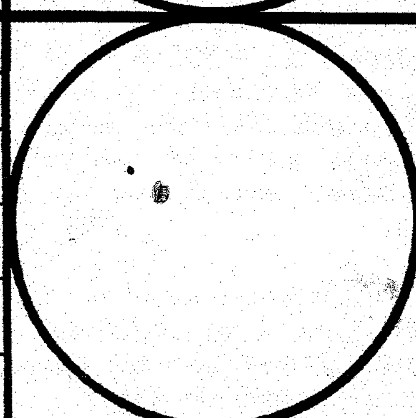
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

HERSCHEL OBSERVATIONS

NGC 3523		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
DATE 4/30/20		COMMENTS	
TIME 555		LG & DIMMER THAN LAST ONE (NEARBY)	

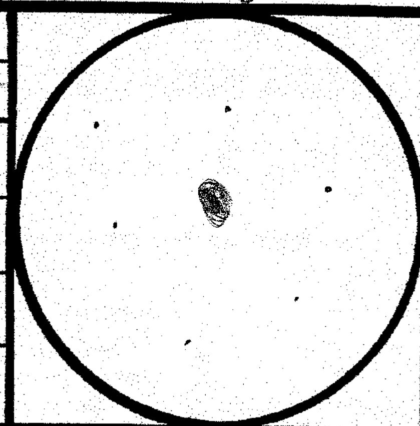
NGC 3752		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
DATE ″		COMMENTS	
TIME 600		YES, THERE IS A SWOOP	

NGC 3901		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
DATE ″		COMMENTS	
TIME 605			

NGC 3890		SITE	SEEING / TRANS
CONST		INSTR	EYEPIECE / POWER
DATE ″		COMMENTS	
TIME 610		S/F	

HERSCHEL OBSERVATIONS

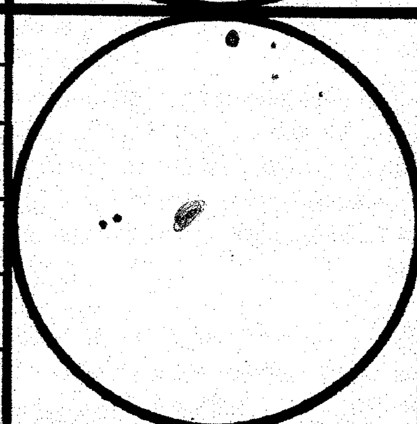
NGC 4177
CONST



DATE 4/30/20
TIME 615

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
HMA3

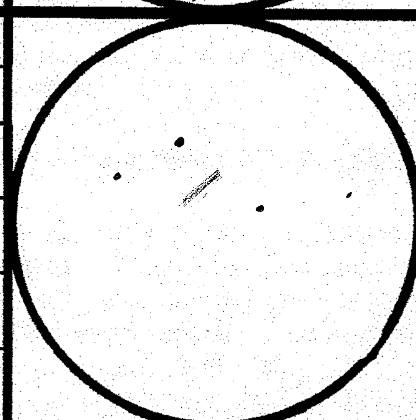
NGC 4159
CONST



DATE 11
TIME 620

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

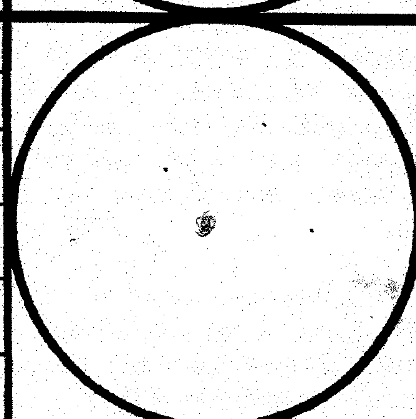
NGC 4331
CONST



DATE 11
TIME 625

SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4363
CONST

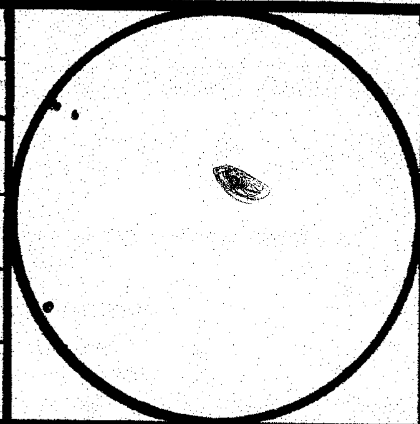


DATE 11
TIME 630

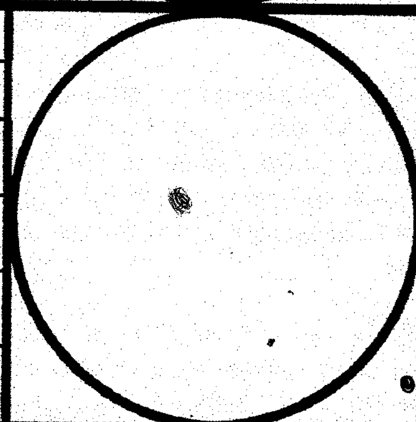
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

HERSCHEL OBSERVATIONS

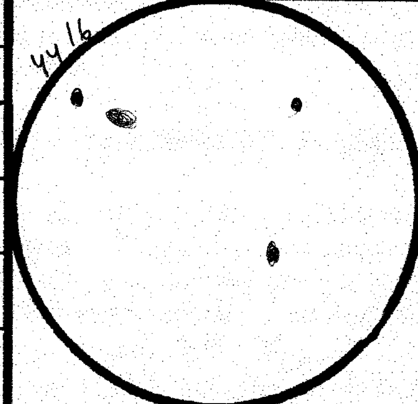
NGC 4386	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 4/30/20	COMMENTS Mcf!	
TIME 6:35		



NGC 4415	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS	
TIME 6:40		

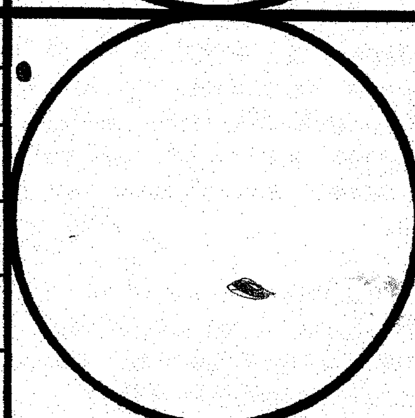


NGC 4416/	SITE	SEEING / TRANS
CONST 4434	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS 4434	
TIME 6:45		



Not H3

NGC 4469	SITE	SEEING / TRANS
CONST	INSTR	EYEPIECE / POWER
DATE 11	COMMENTS	
TIME 6:50		

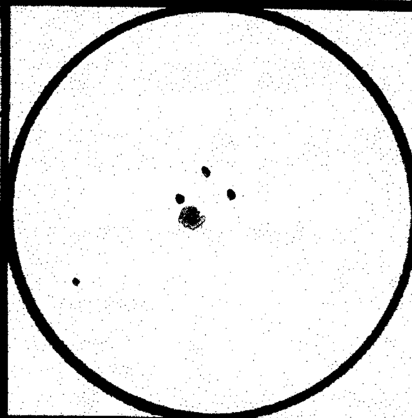


Not H3

HERSCHEL OBSERVATIONS

NGC 3374
CONST
3415

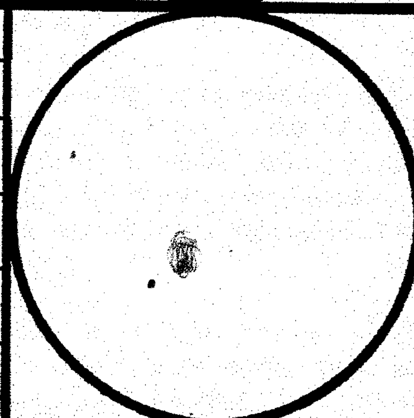
DATE 4/30/20
TIME 6:55



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 3415
CONST 3374

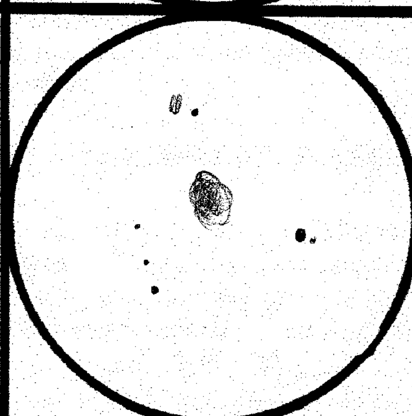
DATE 〃
TIME 7:00



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
3415 ok — 3416 (?)

NGC 3577/83
CONST

DATE 〃
TIME 705

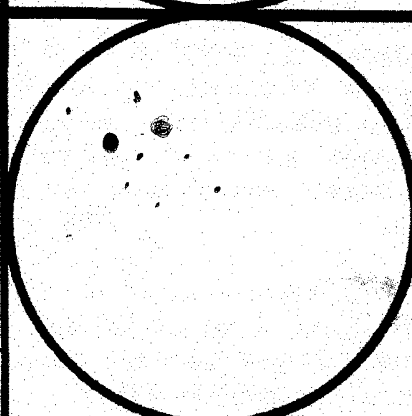


SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS
← 3577

← 3583

NGC 3595
CONST

DATE 〃
TIME 710



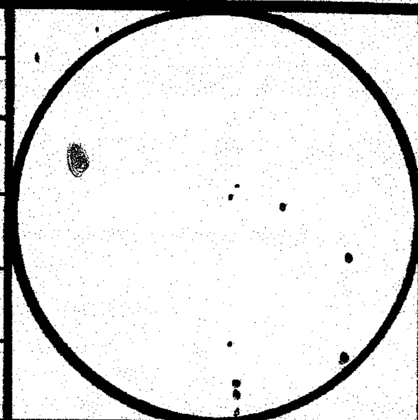
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

HERSCHEL OBSERVATIONS

Done!

NGC 4516
CONST

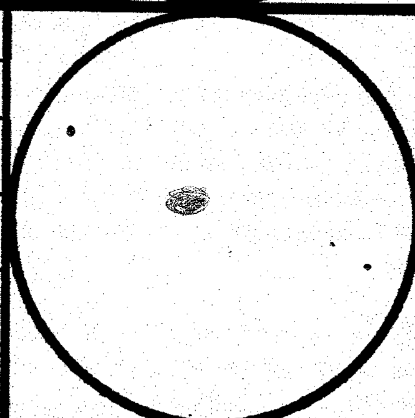
DATE 4/30/20
TIME 720



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4498
CONST

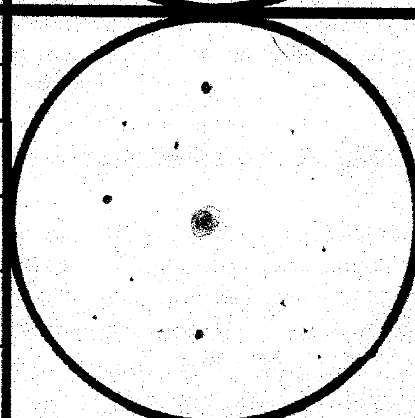
DATE "
TIME 725



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4515
CONST

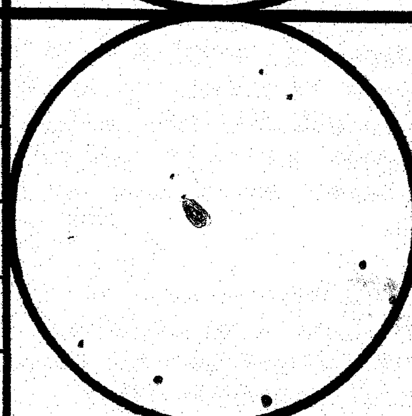
DATE "
TIME 730



SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

NGC 4540
CONST

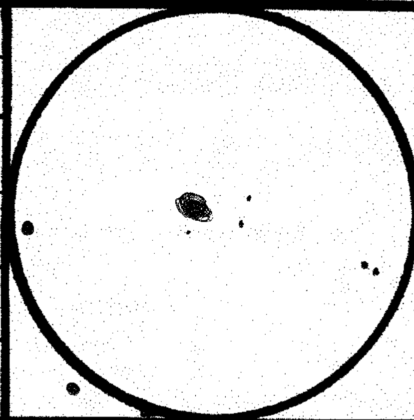
DATE "
TIME 735



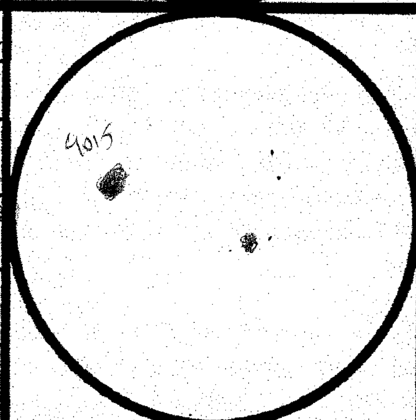
SITE | SEEING | TRANS
INSTR | EYEPIECE | POWER
COMMENTS

HERSCHEL OBSERVATIONS

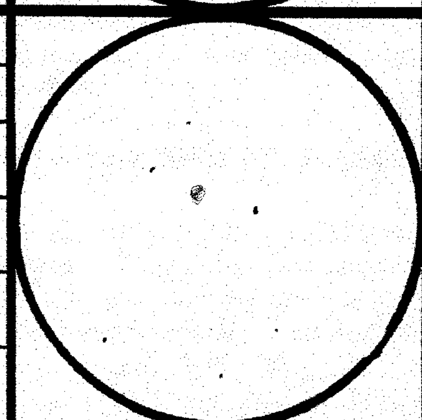
NGC 4595	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 4/30/20	COMMENTS		
TIME 740			



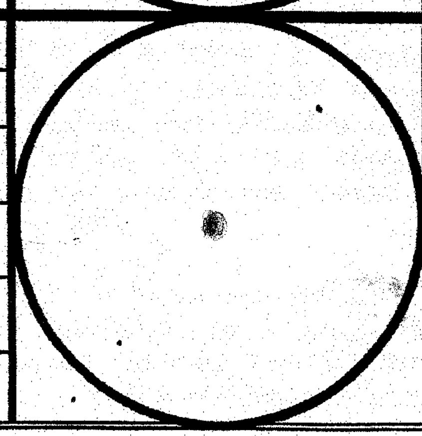
NGC 4021+	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
4005	COMMENTS		
DATE 11			
TIME 745			



NGC 4529	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 11	COMMENTS VVF/VS		
TIME 750			



NGC 4555	SITE	SEEING	TRANS
CONST	INSTR	EYEPIECE	POWER
DATE 11	COMMENTS		
TIME 755			

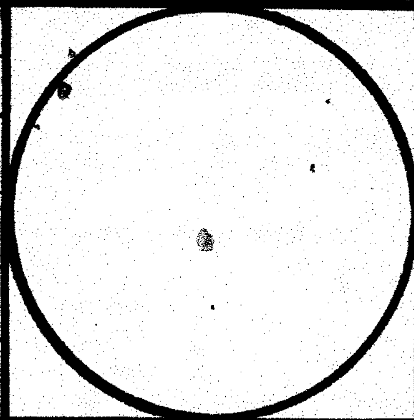


NGC 4856

CONST

DATE 4/30/20

TIME 800



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

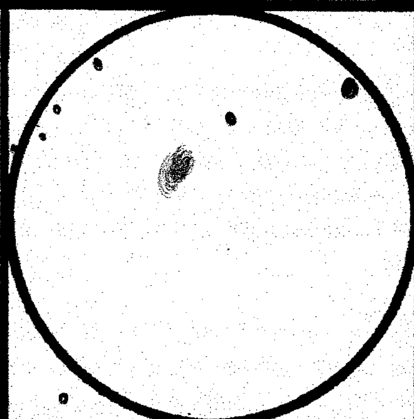
COMMENTS

NGC 4393

CONST

DATE 11

TIME 810



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

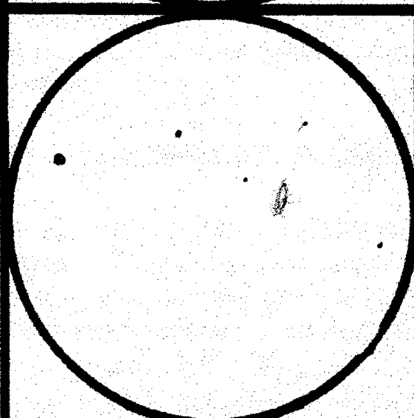
← sf nuc ?

NGC 4475

CONST

DATE 11

TIME 820



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

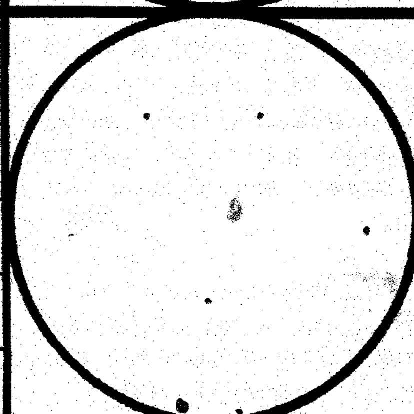
VF

NGC 4495

CONST

DATE 11

TIME 830

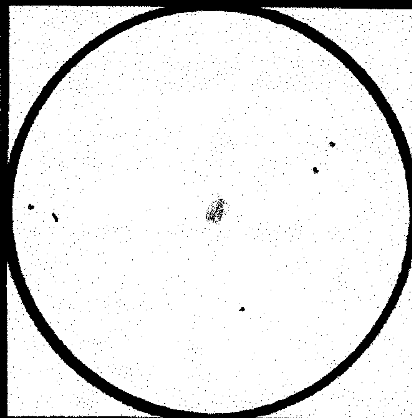


SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

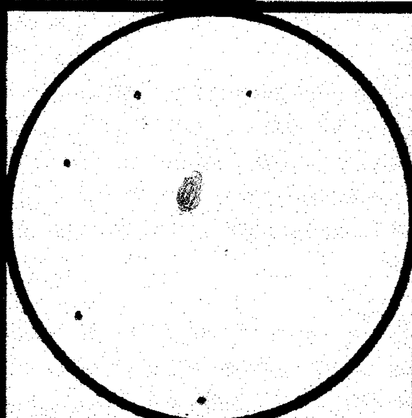
NGC	4514
CONST	
DATE	4/30/20
TIME	840



SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

NGC	4525
CONST	
DATE	〃
TIME	850

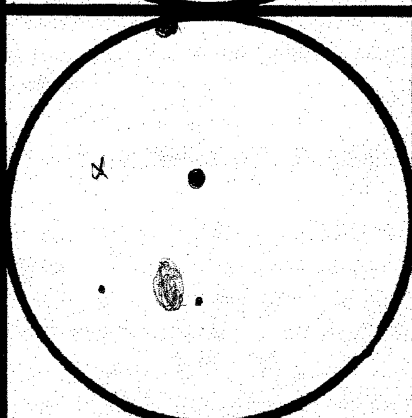


SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

VVF

NGC	~~4025~~
CONST	
DATE	〃
TIME	9:00

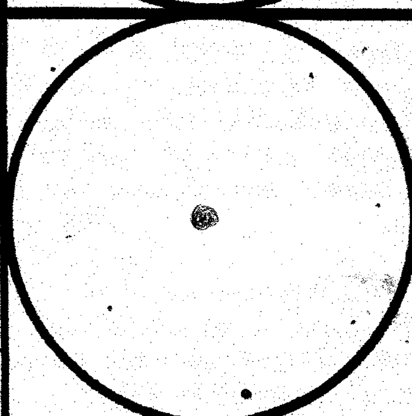


SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

REVISIT

NGC	4798
CONST	
DATE	〃
TIME	910



SITE	SEEING	TRANS
INSTR	EYEPIECE	POWER

COMMENTS

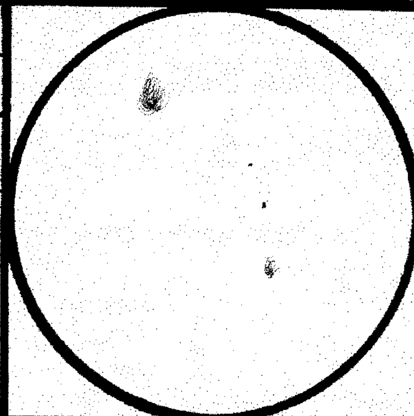
HERSCHEL OBSERVATIONS

NGC 4961

CONST

DATE 4/30/20

TIME 920



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

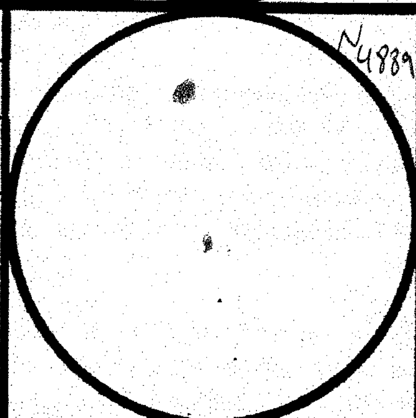
← 4957

NGC IC4051

CONST

DATE 〃

TIME 930



SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

NGC

CONST

DATE

TIME

SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS

NGC

CONST

DATE

TIME

SITE | SEEING | TRANS

INSTR | EYEPIECE | POWER

COMMENTS