Object ID:	Be 24				
Const.:	Scl	Obser	ver <u>G</u> ,	Yours	
RA:	Dec.:	Date		./1	
Mag:	Size:	Time	1)00		
		Locat	ion <u>A</u> ,	Mand	
		Seeing	I I	Transpare	ncy I
	•	Instru	ment	172	
		Size_	13	2	
	•	Еуері	ece <u>l</u>	0	
	•	Field o	of view	Pow	er <u>100</u>
		<u> </u>			· · · · · · · · · · · · · · · · · · ·
• Can this galaxy be	e seen with direct	vision, or is ever	ted vision ed	nired?	
				.952,	
What is the overal	u shape?	it/clong	Me 2	53	
• Is a core noticeabl	le? Nb				
• Is the core compac	ct or stellar? —				
• Can any detail be	seen between the	core and the out	er envelope of	f the object?	monthy
Are the edges of the second seco					
			<u>.</u> :		•
Can any detail or	mottling be seen i	in the outer envel	ope (bright o	r dark patche	es or lanes)?
• Are there any other	er deep-sky objec	ts in the same fie	d of view? If	so, what?^	Ь
Description	1se	moni -ls	3 (00	r sea)	brless
·					nyk
(1999 Cole & Pratt)					

Objec	tD: NGC NG	
Const.	<u></u>	Observer B. Yowk
RA:	Dec.:	Date
Mag:	Size:	Time 2145 US
	,126	? Location OTEX
		Seeing Transparency T-
	E	Instrument XT-12
		Size
	6	Eyepiece 42 x 2
- \	<i>,</i>	Field of view Power
•		
• Ca	n this galaxy be seen with direct vision,	, or is averted vision required?
• Wi	hat is the overall shape? / Lunk	
•	a core noticeable? Ye	
• Is t	the core compact or stellar?	
• Car	n any detail be seen between the core a	nd the outer envelope of the object?
• Are	e the edges of the outer envelope sharp	or diffuse?
• Cai	n any detail or mottling he seen in the	outer envelope (bright or dark patches or lanes)?
• Are	e there any other deep-sky objects in th	ne same field of view? If so, what?
Descrip	ntian	ne same field of view? If so, what? Opening ?
	ption	
(1999 Cole	e & Prati)	

	by the country of the
Object ID: Ne M	1)2
Const.: Psc	Observer B Your
RA: Dec.:	Date 9/1/8
Mag: Size:	Time 2,10
	Location MCC
	Seeing Transparency T
	Instrument XT-12
	Size 12
	Eyepiece 2x 12
	Field of viewPower_72
 Can this galaxy be seen with direct vision, or 	r is averted vision required?
• What is the overall shape? (
• Is a core noticeable? Ye>	
Is the core compact or stellar?)	
	I the anima annulus after the street of the
Can any detail be seen between the core and	
Are the edges of the outer envelope sharp or	diffuse
• Can any detail or mottling be seen in the on	ter envelope (bright or dark patches or lanes)? 🥠
Are there any other deep-sky objects in the	same field of view? If so, what? $\mathcal{N}_{\mathcal{O}}$
Description	
(1999 Cole & Prait)	

加

Object ID: NFC 151	
Const.: Cet	Observer B. Yout
RA: Dec.:	Date 9/29/8
Mag: Size:	Time 4:00 UT
	Location OTex
	Seeing Transparency T
	Instrument XT-Y2
	Size \2
	Eyepiece 42×2
	Field of view Power
• Can this galaxy be seen with direct vision, o	ve or is averted vision required?
	-
• What is the overall shape?	
• Is a core noticeable?	
• Is the core compactor stellar?	
• Can any detail be seen between the core and	d the outer envelope of the object? 🔨
• Are the edges of the outer envelope sharp or	
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	same field of view? If so, what? No
Description	
(1999 Cole & Pratt)	

Object ID: 175		H
Const.:	Observer 3	YOUNG
RA: Dec.:		0/1/8
Mag: Size:		5100 UT
		Olive-Tex
		Transparency
		XT-12
		12
* .	Еуеріесе	2x42
	Field of view	
	/ ·	
 What is the overall shape? No Is a core noticeable? Yes Is the core compact or stellar? 		
 Can any detail be seen between the c Are the edges of the outer envelopes 		the object? Hit H
• Are the edges of the outer envelope's	harp 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? No
		,
Description		
(1999 Cole & Prati)	•	

Object ID: NGC 198/200	198=42
Const.:	Observer B 70M
RA: Dec.:	Date 9/1/8
Mag: Size:	Time 2:20
198	Location MCe
	Seeing Transparency T
	Instrument Xt-12
	Size 12
	Eyepiece 2x 42
	Field of view Power 72x
·	
• Can this galaxy be seen with direct vision or	r is averted vision required?
• What is the overall shape?	
■ Is a core noticeable? №	
Is the core compact or stellar?	
• Can any detail be seen between the core and	
• Are the edges of the outer envelope sharp or	diffuse?
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
	name field of view? If so, what? Exch orlin
and their any other decipany objects in the	mine inia or their. Who water 6 V Col. 9 1 22
Description	
M000 C-1- 2 B- 45	

NEC 201 Obj	ject type: Nebula
Object ID: NFC 206 Const.: Am \	· HZ
Const.:	Observer B. Yomb
RA: Dec.:	Date
Mag: Size:	Time 3:30 CDT
and the second	Location Adms Ranch
Rob	Seeing Transparency T
	Instrument XT-17
	Size 12
	Eyepiece 2×42
	Field of viewPower
	<u>-</u>
• Can this nebula be seen with direct vision	, or is averted vision required?
• Is there an overall shape of the object or i	is it simply irregular?
	\smile
 Is any part of the outer edge of the nebula Is any part of the nebula brighter or more 	a snarply defined.
• Is any part of the nebula brighter or more	e concentrated? Farly even
• Is there any particular area where you no	tice an absence of stars in this cluster? $- \sim \sim 3$
Are there any voids or dark patches, or la	mes in the nebula? Any bright filaments or streamers? \mathcal{N}_o
	ed or any obvious stars involved with this nebula? M3)
Any suggestions for observing this nebula	
• Are there any other deep-sky objects in the	he same field of view? If so, what? M32/M31
Description	
(1999 Cole & Prait)	

		Observing Log Object type: Nebular	
Object ID:	NGC 214	· · · · · · · · · · · · · · · · · · ·	H.C
Const.:	And	Observer	3. your
RA:			12
· Mag:	Size:	Time	30 CDT
		Location	dans Ranch
		Seeing I	Transparency
		Instrument	XT-12
		Size	12
	8	Eyepiece	2x42
\	• ,	Field of view	Power
			-
• Can this nel	bula be seen with dir	rect vision, or is averted vision req	uired?
• Is there an	overall shape of the o	object or is it simply irregular?	2x1 elong
		the nebula sharply defined?	
		er or more concentrated? Com	ť
• Is there any	particular area whe	re you notice an absence of stars i	n this cluster?
Are there as	ny voids or dark pate	ches, or lanes in the nebula? Any	bright filaments or streamers?
•		or involved or any obvious stars in	
Any suggest	tions for observing th	nis nebula (Le. filter, power, field o	of view, etc.)?
Are there as	ny other deep-sky ob	jects in the same field of view? If	so, what? Vo
	-		

(1999 Cole & Pratt)

42

Object ID: NG-C 217	
Const.: Cet	Observer B, YONG
RA: Dec.;	Date 9/29/8
Mag: Size:	Time 4:10
	Location O Tex
	Seeing II Transparency I
	Instrument XT-12
* 60	Size 12
	Eyepiece 2x 42
	Field of view Power
 Can this galaxy be seen with direct vision, or What is the overall shape? Needle Is a core noticeable? Yes Is the core compactor stellar? Can any detail be seen between the core and Are the edges of the outer envelope sharp or Can any detail or mottling be seen in the oute Are there any other deep-sky objects in the same description 	the outer envelope of the object? No diffuse? er envelope (bright or dark patches or lanes)? Ab ame field of view? If so, what?
(1999 Cole & Pratt)	

				9 2 3 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	208
				Object trace C	alavar
				Object type: G	aiaxy
				`	
_	8 8	-	E		

Object ID: NEC 315	H2
Const.:	Observer B. Your
RA: Dec.:	Date 9/30/8
Mag: Size:	Time 3:30 M
	Location Ohie-Tex
	Seeing T Transparency T
	Instrument XT-12
	Size
	Eyepiece ZXYZ
	Field of view <u>0°.5</u> Power <u>75</u>
 Can this galaxy be seen with direct vision, or What is the overall shape? Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core and Are the edges of the outer envelope sharp or Can any detail or mottling be seen in the out Are there any other deep-sky objects in the second or 	the outer envelope of the object? diffuse? ter envelope (bright or dark patches or lanes)? same field of view? If so, what?
(1999 Cole & Pratt)	

Object type: Galaxy Object ID: <u>NG-C 337</u> Const.: ____ Ce+ Dec.: ____ Date Size: Time Location Seeing Transparency_ XTI2 Instrument 12 Size 2x42 Eyepiece Field of view _____ Power ___ Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? 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? Are the edges of the outer envelope sharp of 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 Mile & 50

(1999 Cole & Pratt)

Object ID: NGC 357	
Const.:	Observer 8, Your
RA: Dec.:	Date 9 h 9 /8
Mag: Size:	Time 4:50
	Location O
	Seeing II Transparency I
	Instrument XT-12
	Size 12
	Eyepiece 2x 42
· · · · · · · · · · · · · · · · · · ·	Field of view Power
17375	
• Can this galaxy be seen with direct vision, o	r 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? M
• Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the :	same field of view? If so, what?
	Mand Hold of Victors In Soy Winder 9773
Description	
Mona e. a.	

_	~~	~~	7 111	9	عىب
Ol	oie	ct t	vpe:	G	alaxy

Object ID: NFC 410	H2
Const.:	Ohomon B. Mar N.
RA: Dec.:	Observer <u>Byont</u> Date <u>9/30/8</u>
· · · · · · · · · · · · · · · · · · ·	•
Mag: Size:	Time 3:10 0
	Location De re-Tex
	Seeing I Transparency I-
	Instrument XT-12
	Size 12
*	Eyepiece 42
	Field of view ° Power 36
• Can this galaxy be seen with direct vision, or	is averted vision required?
• What is the overall shape? ()	
• Is a core noticeable?	
Is the core compactor 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?
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)? γ Α
• Are there any other deep-sky objects in the s	ame field of view? If so, what? N M
and the same deep say england in the h	and have at views in boy winners \$ 40
Description	
(1999 Cale & B)	

Object ID: NGC 428	
Const.:	Observer B. Young
RA: Dec.;	Date 10/1/8
Mag: Size:	Time 4:30 vr
	Location Ohie Tex
	Seeing <u>I</u> Transparency <u>I</u>
	Instrument YT-12
.	Size 12
	Eyepiece 47×2
	Field of viewPower
• Can this galaxy be seen with direct vision or	is averted vision required?
• What is the overall shape? O.	
• Is a core noticeable? No	
 Is the core compact or stellar? 	
-	
• Can any detail be seen between the core and	
 Are the edges of the outer envelope sharp or 	diffuser
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)? 🅠
Are there any other deep-sky objects in the sa	ame field of view? If so, what? ~_
Description	

(1999 Cole & Pratt)

		9	
Object	type:	G	alaxy

		47
Object ID:	Mtc 499+	<u>-498</u> 2 496
Const.:		Observer Bryowt
RA:	Dec.:	Date 9/30/8
Mag:	Size:	Time4:00 U
		Time 4:00 Us Location Olives Seeing T - Transparency T
No		Yansparency T
\w_	e de la companya de l	Instrument XT-12
1		Size (2
	•• <i>(</i> *	Eyepiece 42 x 2
	•	Field of view <u>0°.5</u> Power <u>76</u>
		Yes
	. 7	
Can this gal	laxy be seen with direct v	vision, or is averted vision required?
What is the	overall shape?	oral/road
		ett) No, yes, yes
	~	i, stellar, stellar
		core and the outer envelope of the object? Some hints on node he assured that the contract of the object?
		n the outer envelope (bright or dark patches or lanes)? $ u$
	·	
Are there ar	ny other deep-sky objects	s in the same field of view? If so, what? These 3
escription	ONE OF TH	FESC 3

Object ID: NFC 5 13		
Const.:	Observer	
RA: Dec.:	Date 9/1/8	
Mag: Size:	Time12:15	
	Location	
	Seeing I Transpar	ency II-
	Instrument X+-12	
	Size 12	
₩	Eyepiece 2x 42	
	Field of view Pow	wer) Zx
	<i>,</i>	
• Can this galaxy be seen with dire	ct vision, or is averted vision required?	
• What is the overall shape? O		
	,	
• Is a core noticeable? N_o		
Is the core compact or stellar?		
Can any detail be seen between t	he core and the outer envelope of the object?	· Mo
• Are the edges of the outer envelop	oe sharp or diffuse?	
	n in the outer envelope (bright or dark patch	
Are there any other deep-sky obj	ects in the same field of view? If so, what?	No
Description		
1999 Cale & Destin		

Object ID: NFC TY	H 2
Const.:	Observer B, YOUNG
RA: Dec.:	Date 9/30/8
Mag: Size:	Time 4:45 UT
	Location Ohie-Tex
	Seeing Transparency
	Instrument XT-12
· · · · · · · · · · · · · · · · · · ·	Size 12
	Eyepiece 2X42
	Field of view
 Can this galaxy be seen with direct vision, of the world shape? Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core and the Are the edges of the outer envelope sharp or the Can any detail or mottling be seen in the outer the core and the can any detail or mottling be seen in the outer the core and the can any detail or mottling be seen in the outer the can any other deep-sky objects in the stellar. 	the outer envelope of the object? diffuse? ter envelope (bright or dark patches or lanes)?
Description	
/1000 C.J. e. B	

	Observing Log Object type: Galaxy (NESMA)	
Object ID: NGC 604	(VERNIA)	HZ
Object ID:		
Const.:	Observer By Young	
RA: Dec.:	Date $\frac{10/2/8}{}$	
Mag: Size:	Time 3:00 LT	
	Location Ohre -T-	ex
	Seeing Transpare	епсу
	Instrument $XT-12$	
	Size 12	
	Eyepiece 10	
	Field of view Pow	ver_156
	XN	
• What is the overall shape? Obline • Is a core noticeable?		
• Is the core compact or stellar?		
• Can any detail be seen between th	e core and the outer envelope of the object?	X
• Are the edges of the outer envelop	e sharp or diffuse?	
Can any detail or mottling be seen	in the outer envelope (bright or dark patch	es or lanes)?
• Are there any other deep-sky obje	ects in the same field of view? If so, what?	M33+
Description cus't dan	w this - it had to	2 other "patches"
la seen to be	believed!	
(1999 Cole & Pratt)		

Object ID: NG-C 636	HZ
Const.: Cet	Observer B York
RA: Dec.:	Date 9/29/8
Mag: Size:	Time 5100
	Location Otex
	Seeing Transparency T
	Instrument XT-12
●	Size 12
	Eyepiece 2x Y 2
	Field of view Power
 Can this galaxy be seen with direct vision, o What is the overall shape? Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core and Are the edges of the outer envelope sharp or Can any detail or mottling be seen in the outer Are there any other deep-sky objects in the second or 	the outer envelope of the object? diffuse? ter envelope (bright or dark patches or lanes)? same field of view? If so, what?
(1999 Cole & Pratt)	

00]0	ot type. Galaxy
Object ID: No C 660	H2
Const.:	Observer B. Yowk
RA: Dec.:	Date 9/30 (8
Mag: Size:	Time 4:15 4
	Location Olive Tex
	Seeing T- Transparency T
	Instrument XT-12
	Size
	Eyepiece $2x 42$
	Field of view 0°.5 Power 75
• Can this galaxy be seen with direct vision	or is averted vision required?
• What is the overall shape? Bry + H.	d.
• Is a core noticeable? Yes	
Is the core compact or stellar?	
is the core compact or stellar?	
• Can any detail be seen between the core a	and the outer envelope of the object? O
• Are the edges of the outer envelope sharp	ordiffuse?
• Can any detail or mottling be seen in the	outer envelope (bright or dark patches or lanes)? O~
Are there any other deep-sky objects in the second control of	ie same neid of view? If so, what?
Description M 74 on my - 9	lone u
(1999 Cole & Brost)	

Object ID:	H2
Const.:	Observer R. YOWL
RA: Dec.:	
Mag: Size:	Time 5:00 V
	Location Ohie-Tex
	Seeing Transparency T
	Instrument XT-12
	Size
*	Eyepiece 42
	Field of view (°. 0 Power 36
Can this galaxy be seen with direct vision	ı, or is averted vision required?
• What is the overall shape? [
• Is a core noticeable? 10)	
Is the core compact or stellar?	
	and the outer envelope of the object?
• Are the edges of the outer envelope sharp	ordiffuse?
• Can any detail or mottling be seen in the	outer envelope (bright or dark patches or lanes) 2005
Are there any other deep-sky objects in t	he same field of view? If so, what?
	108
Description	
(1909 Cale & B4)	

Object ID: NG 672	_ HZ
Const.:	Observer Bi YOW/
RA: Dec.:	
Mag: Size:	Time 4:15 VT
	Location Ohie Tex
	Seeing Transparency T
	Instrument XT-12
	Size \ 2
	Eyepiece ZXYZ
	Field of view Power
 Are the edges of the outer envelope shar Can any detail or mottling be seen in the Are there any other deep-sky objects in Description	and the outer envelope of the object? Yes, Equators p or diffuse? e outer envelope (bright or dark patches or lanes)? the same field of view? If so, what?
(1999 Cole & Pratt)	

Object ID: NGC 706	H2
Const.:	Observer B. Your
RA: Dec.:	Date 9/30/8
Mag: Size:	Time 5:20 x
	Location Ohie-Tex
	Seeing Transparency Z
	Instrument XT-12
	Size12
	Eyepiece 42
	Field of view <u>F.O</u> Power <u>36</u>
	the outer envelope of the object? \(\square \) diffuse? ter envelope (bright or dark patches or lanes)? \(\square \)
• Are there any other deep-sky objects in the s	ame field of view? If so, what?
Description	

Object ID: NGC 718	H2
Const.:	Observer B. YOUNG
RA: Dec.:	Date
Mag: Size:	Time 3:40x
	Location Dhire-Tex
	Seeing T- Transparency T-
	Instrument XT-12
	Size 12
	Eyepiece 2x42
	Field of view Power
 Can this galaxy be seen with direct vision, of What is the overall shape? () Is a core noticeable? () Is the core compact or stellar? Can any detail be seen between the core and Are the edges of the outer envelope sharp or Can any detail or mottling be seen in the outer the core and Are there any other deep-sky objects in the 	the outer envelope of the object? \(\subseteq 0 \) (iffuse?) ter envelope (bright or dark patches or lanes)? \(\subseteq 0 \)
, - - -	176
Description	
(1999 Cole & Pratt)	

Object ID: Noc 741	H2
Const.:	Observer B. YOUNG
RA: Dec.:	Date 10/1/8
Mag: Size:	Time 3:25 vr
	Location Obje-Tex
	Seeing T- Transparency T-
	Instrument XT-12
· · · · · · · · · · · · · · · · · · ·	Size 12
•	Eyepiece ZX 42
	Field of view Power
	<u> </u>
• Can this galaxy be seen with directy	
• What is the overall shape? Now	
• Is a core noticeable? Yes	
• Is the core compact or stellar?	
Can any detail be seen between the c	ore and the outer envelope of the object?
Are the edges of the outer envelopes	Why)
• Are the edges of the outer envelopeds	idrp or diffuse?
 Can any detail or mottling be seen in 	the outer envelope (bright or dark patches or lanes)? \mathcal{N}_{σ}
Are there any other deep-sky objects	in the same field of view? If so, what? No
Description	
(1999 Cole & Pratt)	

Object ID: NFC 521	_
Const.:	Observer B, YOUNG
RA: Dec.:	
Mag: Size:	Time 2:15 UT
	Location 666e-Tex
	Seeing Transparency T
	Instrument XT-12
	Size 12
	Eyepiece 42x2
	Field of view Power 75
• Can this galaxy be seen with direct vi	sion, or is averted vision required?
• What is the overall shape? (Lemb	
• Is a core noticeable? Ye>	·
• Is the core compact or stellar?	
• Can any detail be seen between the co	ore and the outer envelope of the object? No
Are the edges of the outer envelope sh	earn or diffuse?
	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	
(1999 Cele & Prait)	

Object	n type. Galaxy	
Object ID: NG-C 990		1) 2
Const.:	Observer	By Young
RA: Dec.:	Date	10/2/8
Mag: Size:	Time	3:25 UT
	Location	Ohie-Tex
	Seeing	Transparency
	Instrument	Xt-12
	Size	12
	Еуеріесе	2×42
	Field of view	Power 75x

• Can this galaxy be seen with direct vision,	or is averted vision	required?
• What is the overall shape? n		
• Is a core noticeable? No		
Is the core compact or stellar?		
-		
• Can any detail be seen between the core an	id the outer envelor	ne of the object? No
• Are the edges of the outer envelope share	or diffuse?	
• Can any detail or mottling be seen in the o	uter envelope (brig	ht or dark patches or lanes)? $\sqrt{_{\mathcal{O}}}$
Are there any other deep-sky objects in the	e same field of view	? If so, what?
		~ = 55, 11=11
Description		
(1999 Cole & Pratt)		

	ect type: Nebula
Object ID: NGC 896	H 2
Const.:	Observer B. YOUNK
RA: Dec.:	Date 7/1/8
Mag: Size:	Time 2:45 COT
	Location Alans Anch
	Seeing Transparency T-
	Instrument XT-12
	Size 12
	Eyepiece Zx 42
	Field of viewPowerPower
	· VFC
• Can this nebula be seen with direct vision,	, or is averted vision required?
• Is there an overall shape of the object or is	s it simply irregular? $3 \wedge o \lambda \vee e_3$
• Is any part of the outer edge of the nebula	sharply defined? No
Is any part of the nebula brighter or more	concentrated? 3 seeces
Is there any particular area where you not	**
Are there any voids or dark patches, or large	nes in the nebula? Any bright filaments or streamers? $ec{oldsymbol{\mathcal{N}}}_{oldsymbol{O}}$
Any suggestions for observing this nebula	(Le. filter, power, field of view, etc.)?
• Are there any other deep-sky objects in th	e same field of view? If so, what?
Description	• • • • • • • • • • • • • • • • • • • •

(1999 Cole & Prait)

Object	4 7 3		
f lhtoat	frmi.		~
VIIIICUL	LVIIC	1 + 31 1	31 X X
00,000	UJ PU.		44.7

Object ID: NGC 925			HZ
Const.:	Observer	B. Yourt	
RA: Dec.:		10/2/8	
Mag: Size:		3:45 vr	
		Olie-Tex	
		Transparency_	
	Instrument	XT-12	
	Size	12	
	Eyepiece	2×42	
	Field of view _	Power	75
 What is the overall shape? Large Is a core noticeable? No Is the core compact or stellar? — Can any detail be seen between the core 	re and the outer envelo		
 Are the edges of the outer envelope sha 	arp or diffuse?	d	on face
 Can any detail or mottling be seen in the 	he outer envelope (brig	ht or dark patches or l	anes)? Yes w
• Are there any other deep-sky objects in	n the same field of view	? If so, what?	- 7
Description Kc thanhtil	oose globelar		
(1999 Cole & Pratt)			

Objec	ct type. Galaxy
Object ID: NGC 991	
Const.:	Observer B. Youl
RA: Dec.:	Date 10/1/8
Mag: Size:	Time 7:00 UT
	Location Ohie-Tex
	Seeing Transparency
	Instrument XT-12
	Size 12
	Eyepiece 2x 42
	Field of view Power
 Can this galaxy be seen with direct vision, What is the overall shape? Nond Is a core noticeable? Brely 	or is averted vision required?
• Is the core compact or stellar?	
• Can any detail be seen between the core ar	nd the outer envelope of the object?
Are the edges of the outer envelope sharp of	
 Cau any detail or mottling be seen in the o 	outer envelope (bright or dark patches or lanes)?
 Are there any other deep-sky objects in the 	e same field of view? If so, what?
Description	

(1999 Cole & Pratt)

Object ID: NE OVZ	J J J J J J J J J J J J J J J J J J J		142
Const.:	Observer	B. Younh	
RA: Dec.:		10/2/8	
Mag: Size:		4:30 05	
		Oure-Tex	
	Seeing <u>±</u>	Transparency	I
		XT-12	
	Size	12	
	Еуеріесе	2x42	
		Power	152

			: · · · · · · · · · · · · · · · · · · ·
 Can this galaxy be seen with direct vision, 	or is averted vision	required?	
• What is the overall shape? $n \sim \lambda$			
• Is a core noticeable? Alix			
Is the core compact or stellar?	·		
is the core compact or stenar			
• Can any detail be seen between the core as	nd the outer envelop	pe of the object?	
• Are the edges of the outer envelope sharp	or diffuse?		
• Can any detail or mottling be seen in the o	uter envelope (brig	ht or dark patches or la	nes)?
Are there any other deep-sky objects in the		-	
The there any other deep-sky objects in th	e same neid of view	: II so, what:	
Description			
(1999 Cole & Pratt)			

	Soloce type. Chinay	LI2
Object ID: NGC 1032		1/2
Const.:	Observer	B. Yout
RA: Dec.;		10/1/8
Mag: Size:		3:55 W
		Ohie-Tex
	-	Transparency
		XT-12
·	·	12
.		10
	3	Power 50
	/ · · · · · · · · · · · · · · · · · · ·	
		and the state of t
• Can this galaxy be seen with direct y	ision, or is averted vision rec	quired?
• What is the overall shape?		•
• Is a core noticeable? Yes		
• Is the core compact or stellar?		
• Can any detail be seen between the c	ore and the outer envelope o	of the object? Some honts
Are the edges of the outer envelope sl		ototale
• Can any detail or mottling be seen in	the outer envelope (bright o	or dark patches or lanes)? No
• Are there any other deep-sky objects	in the same field of view? I	f so, what? \sim_{\circ}
Description		-
(1999 Cole & Prott)		

	type: Galaxy
Object ID: NG-C 1035	H
Const.:	Observer B, Yound
RA: Dec.:	Date 10/1/8
Mag: Size:	Time 6115 UT
	Location Ohie-Tex
	Seeing Transparency T
	Instrument XT12
	Size 12
∦	Eyepiece 2x42
	Field of viewPower
• Can this galaxy be seen with direct vision of	r is averted vision required?
What is the overall shape?	
• Is a core noticeable? Y	
• Is the core compact or stellar?	relge
Can any detail be seen between the core and	the outer envelope of the object? Ne lynn
Are the edges of the outer envelope charp or	•
Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	name field of view? If so, what?
Description	

(1999 Cole & Pratt)

Object ID: NGC 1045	
Const.:	Observer B. Yowk
RA: Dec.:	Date 10 / 1/8
Mag: Size:	Time 5150 A
	Location Ohie-Tex
	Seeing Transparency
	Instrument XT-12
	Size 12
	Eyepiece 2x 42
	Field of viewPower
• Are there any other deep-sky objects in the sa	the outer envelope of the object? No diffuse? er envelope (bright or dark patches or lanes)? No ame field of view? If so, what?
Description	
1999 Cole & Pratt)	

1058 CONST Per EYAMBCA ZXY2 POWER COMMENTS .0. near center DATE 3/8 10 31154 SEEDIG TRANS CONST INSTR SYMPLECE POWER COMMENTS DATE TIME NGC SITE SERING TRANS CONST INSTR EYEPIECE COMMENTS DATE TIME MOC MIE TRANS COMST INSTR BYRPIECE POWER COMMENTS DATE THE

HERSCHEL OBSERVATIONS

Object ID: NG-C 1060	H2
Const.:	Observer B. YOWL
RA: Dec.:	Date 10/2/8
Mag: Size:	Time 3:55 VY
	Location Ohie Tex
	Seeing Transparency
	Instrument XT-12
	Size \2
	Eyepiece 2x42
	Field of view Power
Con this colour has some with disconstitution	
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? nand	
• Is a core noticeable?	
• Is the core compact or tellar?	
• Can any detail be seen between the core and	the outer envelope of the object? ~.
Are the edges of the outer envelope sharp or	•
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	ame field of view? If so, what?
Daniel	
Description	
(1999 Cole & Prait)	
	36

Observing Log

		\smile	
Object	type:	G	alaxy

Object ID: NGC 1070	" H2
Const.:	Observer Byonh
RA: Dec.:	Date 10/1/8
Mag: Size:	Time 7:10 UT
	Location Ohre-Tex
	Seeing Transparency
	Instrument XT-12
	Size 12
6	Eyepiece 2x42
	Field of view Power
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape? Now	
• Is a core noticeable?	
• 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 of	
• Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the s	name field of view? If so, what?
Description	
(1909 Cale & B	
(1999 Cole & Prait)	77

Object ID: NGC 1073	H =
Const.:	Observer B. Yank
RA: Dec.:	Date 0/1/8
Mag: Size:	Time 7:30 V
	Location Okie-Tex
	Seeing Transparency
	Instrument XT-12
	Size 2
	Eyepiece 2x 42
	Field of viewPower
 Can this galaxy be seen with direct vision, or What is the overall shape? Acres Is a core noticeable? Breeky Is the core compact or stellar? 	
• Can any detail be seen between the core and	a bitt
• Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the s	ame field of view? If so, what? No
Description By ger than 1	as few!
(1999 Cole & Pratt)	

	o ojeti type. Gamay		11
Object ID: NGC 1090/10	87		1J
Const.:	Observer	By your	
RA: Dec.:	Date	10/2/8	
Mag: Size:	Time	3:15 UT	
	Location	Olie-Tex	
	Seeing I	Transparency	工
	Instrument	XT-12	
		12	
	Eyepiece	2X42	
	Field of view	Power	15
9			
Is a core noticeable? No'l Is the core compact or stellar? —			
·		on afthe abiness Scan	a hm
Can any detail be seen between the		e of the object?	
Are the edges of the outer envelope	sharp or diffuse?		1
Can any detail or mottling be seen	" -	-	-
Are there any other deep-sky objec	ts in the same field of view	? If so, what? Ekch	ofte
			~)
Description M77, 1/6(105	3, Nfc1072 (BAM	ay) on way	<u> </u>
1999 Cole & Pratt)			7

HERSCHEL OBSERVATIONS

HOC 1114		"Ohie-Tex	SEEINO T TRANS T
CONST			2742 7x
		Small oval,	مه ماد
	8		
DATE 10/2/8	\ /		
TIME 8140 V			
NOC 1471	\rightarrow	SITE //	SEEDING // TRANS //
CONST		IMSTR //	TO ISON
		COMMENTS	
			Weekmen
DATH /		suffl most	JUM IN WELL
10/2/8 TEME			
8:50 M			
NOC 1719		SITE //	SEEING// TRANS / /
			SEEINO// TRANS // EYEPTECE POWER 2XY2 75X
		INSTR // COMMENTS	2x42 75x
CONST		INSTR //	2x42 75x
CONST DATE 10/2/8		INSTR //	2x42 75x
CONST		INSTR //	2x42 75x
CONST DATE 16/2/8 TIME		INSTR COMMENTS TOUY, TNO A OUT	2x42 75x
CONST DATE 10/2/8 TIME 9:00/5		INSTR COMMENTS TOUY, THO A O'ET STE INSTR	2x42 750
DATE 16/2/8 TIME 9:00/K		INSTR COMMENTS TOUY, TNO A OUT	SERING TRANS
DATE 16/2/8 TIME 9:00/K		INSTR COMMENTS TOUY, THO A O'ET STE INSTR	SERING TRANS
DATE 16/2/8 TIME 9:00/K		INSTR COMMENTS TOUY, THO A O'ET STE INSTR	SERING TRANS
DATE 16/2/8 TIME 9:00/K NOC CONST		INSTR COMMENTS TOUY, THO A O'ET STE INSTR	SERING TRANS

Object ID: NGC 1156	#2
Const.:	Observer B, YOUNG
RA: Dec.:	Date 10/2/8
Mag: Size:	Time 4:50 x
	Location Dure-Tex
	Seeing Transparency
	Instrument XT-12
	Size12
	Eyepiece ZX42
	Field of view Power
 Can this galaxy be seen with direct vision, What is the overall shape? Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core an Are the edges of the outer envelope sharp of Can any detail or mottling be seen in the or Are there any other deep-sky objects in the 	d the outer envelope of the object? r diffuse? Iter envelope (bright or dark patches or lanes)?
Description	
(1999 Cole & Pratt)	<i>\(\)</i>

Observing Log

				₽ ~	
Obi	iect	tv	pe:	Ga	laxy

	712
Object ID: NGC 1160/1161	
Const.:	Observer B. Yank
RA: Dec.:	Date 10/2/8
Mag: Size:	Time6:30 x
1160	Location Ohre-Tex
	Seeing Transparency
	Instrument XT-12
	Size / 12
	Eyepiece ZX 42
	Field of view Power
• Can this galaxy be seen with direct vision or	is averted vision required?
• What is the overall shape? Owls	
• Is a core noticeable? Yes 1161 No 11	60
, a	
Is the core compact or stellar?	
• Can any detail be seen between the core and	
• Are the edges of the outer envelope sharp or	diffuse?
· · · · · · · · · · · · · · · · · · ·	
• Are there any other deep-sky objects in the s	ame field of view? If so, what? Each other
Desired.	
Description	
(1999 Cole & Pratt)	
Corre Cuto Gr Lians	/

ONDERNER

Object ID: NGC 1162	W2
Const.:	Observer B. Your
RA: Dec.:	Date 10/2/8
Mag: Size:	Time 7100 UT
	Location Oute-Tex
	Seeing Transparency T
	Instrument XT-12
	Size 12
	Eyepiece 2×42
	Field of view Power
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? Nord	
, , , , , ,	
• Is a core noticeable? № o	
 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?
	ter envelope (bright or dark patches or lanes)? N_o
• Are there any other deep-sky objects in the	same field of view? If so, what?
Description USTED IN PE	MSEUJ - ACTUALLY IN
	ERIDANUS
	115
STAND COY	CRECTED - DIAMOST 787
(1999 Cole & Pratt)	

Object ID: NGC 1169	1/2
Const.:	Observer B. Youk
RA: Dec.:	Date 10/2/8
Mag: Size:	Time 6:45 4
	Location Ohie-Tex
	Seeing Transparency T
	Instrument XT-12
	Size 12
	Eyepiece ZXY2
. •	Field of viewPower
 Can this galaxy be seen with direct vision of the core of the core and the core compact or stellar? Is the core compact or stellar? Can any detail be seen between the core and the core a	the outer envelope of the object? diffuse? ter envelope (bright or dark patches or lanes)?
M999 Cale & Brown	

Object ID: NG 1172		
	- D 40 40 A	
Const.:	Observer B, YOUNG	
RA: Dec.:	Date 2/9/3	
Mag: Size:	_ Time	
	Location 9100 CM	
	Seeing Transparency	
	Instrument XT12	
	Size 12	i i
	Eyepiece $\frac{42+2\times}{}$	
	Field of viewPower	_25
	43	
Can this galaxy be seen with direct visio	on, or is averted vision required?	
• What is the overall shape? 0/~		
• Is a core noticeable?		
• Is the core compast or stellar?		
• Can any detail be seen between the core	and the outer envelope of the object?	•
Are the edges of the outer envelope share	p or diffuse?	
Can any detail or mottling be seen in the	e outer envelope (bright or dark patches or	lanes)?
		1190
Are there any other deep-sky objects in	the same need of view? It so, what?	0
Description	r .	
*		
(1999 Cole & Pratt)		

SERI PEREFERENCE DESCRIPTION D

Object ID: N& 1178	42
Const.:	Observer B. Your
RA: Dec.:	Date 10/2/8
Mag: Size:	Time 6:00 x
	Location Ohre-Tex
	Seeing Transparency T
	Instrument XT-12
	Size12
	Eyepiece 2X42
	Field of view Power 75
• Can this galaxy be seen with direct vision, or	r is averted vision required?
	To de of the total and the tot
• What is the overall shape? Guess	
• Is a core noticeable?	
• 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? VES
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	
b - 1 O2 040 04	
Description WW DITVICEN	
(1999 Cale & Prott)	
(1999 Cole & Pratt)	

	IL 7
Object ID: NGC 1184	46
Object ID: NGC 1184 Const.: Cep	Observer B. YOUR
RA: Dec.:	Date 1/2/9
Mag: Size:	Time 7: 20 pm
	Location MCC
	Seeing Transparency T
	Instrument X0-12
	Size 17
ACC	Size 12 Eyepiece 2xy2
	Field of view Power
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape?	
• Is a core noticeable? V_{\circ}	
Is the core compact or stellar?	
-	
Can any detail be seen between the core an	d the outer envelope of the object? No
• Are the edges of the outer envelope sharp of	r diffuse?
• Can any detail or mottling be seen in the or	iter envelope (bright or dark patches or lanes)? 🏑
Are there any other deep-sky objects in the	same field of view? If so, what?
Description Blush slow -	KC confined
(1999 Cole & Prait)	

(1999 Cole & Pratt)

	C	Object type: Upen Cluster	
Object ID:	NGC 119	3	1+2
		7 Ma M/C	· · · · · · · · · · · · · · · · · · ·
	Dec.:	. /- 10	
•	Size:		
-		Location Okie-Tex	
		Seeing Transparency T	
		Instrument XT-12	·
		Size 12	
,		Eyepiece 2x 42	
		Field of view Power	
_ \ .	• .		
			:
Can this c	Inster he easily distinguis	shed from the background stars? No -l.	
•			
	ne overall shape of the ob		
• How many	y stars can you count in t	the cluster? 14	
Are the sta	ars more concentrated in	any one particular area? No	:
• Is this clus	ster resolved fully or is th	nere some background nebulosity neticed?	
	_	you notice an absence of stars in this cluster?	
	-	•	2 No
		stars involved in this cluster? If so, do they show any colors	
• Are there	any other deep-sky object	ects in the same field of view? If so, what?	
Description _			
			
\			
(1999 Cole & Pratt)			49
			1 1

Object ID: NGC 1199			
Const.: EN	_ Observer	, your	
RA: Dec.:	Date	1918	
Mag: Size:	Time 9	10 CST	
	Location		
	Seeing	Transparency	I
	Instrument	_	
·	Size	12	
•	Eyepiece		
	Field of view	Power	75x
Can this galaxy be seen with direct vision What is the overall shape? Is a core noticeable?	on, or is averted vision req	uired?	
What is the overall shape? Oxl Is a core noticeable? 5xll Is the core compact or stellar?	e and the outer envelope of		
What is the overall shape? Oxl Is a core noticeable? Sxll Is the core compact or stellar? Can any detail be seen between the core Are the edges of the outer envelope share Can any detail or mottling be seen in the	e and the outer envelope of rp or diffuse?	f the object? M	Ianes)? A
What is the overall shape? Oxl Is a core noticeable? Sxll Is the core compact or stellar? Can any detail be seen between the core Are the edges of the outer envelope share Can any detail or mottling be seen in the	e and the outer envelope of rp or diffuse?	f the object? M	Ianes)? A
What is the overall shape? Oxl Is a core noticeable? 5xll Is the core compact or stellar? Can any detail be seen between the core Are the edges of the outer envelope shape	e and the outer envelope of rp or diffuse? he outer envelope (bright of the same field of view? If	f the object? M	Ianes)? A
What is the overall shape? Oxlor Is a core noticeable? 5xclor Is the core compact or stellar? Can any detail be seen between the core Are the edges of the outer envelope shar Can any detail or mottling be seen in the Are there any other deep-sky objects in	e and the outer envelope of rp or diffuse? he outer envelope (bright of the same field of view? If	f the object? M	Ianes)? A

seas recessors betteressessessesses

Object ID: NE 1207	_ 143
Const.:	Observer By Young
RA: Dec.:	
Mag: Size:	Time 5 \ 50 VT
	Location Ohie-Tex
	Seeing Transparency T
`	Instrument XT-12
	Size 2
	Eyepiece 2x42
	Field of view Power
• Can this galaxy be seen with direct vis	sion, or is averted vision required?
• What is the overall shape?	
• Is a core noticeable?	
•	
• Is the core compact or stellar?	
• Can any detail be seen between the co	ore and the outer envelope of the object?
Are the edges of the outer envelope sh	narp or diffuse? \(\lambda\)
· ·	V OO
Can any detail or motume be seen in t	the outer envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects i	in the same field of view? If so, what?
Description DMMC55 YC	7!
(1999 Cole & Pratt)	

Object ID: NGC No9	
Const.: EX	Observer B, Yowk
RA: Dec.;	Date 2/9/8
Mag: Size:	Time 9: 20 CST
	Location MCC
	Seeing Transparency T
•	Instrument XT-12
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Size 12
	Eyepiece 42+2X
/	Field of view Power
	and the outer envelope of the object? No
Can any detail or mottling be seen in the	outer envelope (bright or dark patches or lanes)?
	he same field of view? If so, what?
Description	
(1999 Cole & Pratt)	

Obj	ect ID: NCC 13008 1297			
Соп	st.:	Obser	server <u>B. Yow</u>	
RA:	Dec.:	Date_		
Mag	g: Size:	Time .	ne 6:50 VY	
,		Locat	eation Olive Tex	
N		Seeing	ing Transparency	
N.		Instru	trument XT-12	
		Size_	12	
	. 1	Eyepi	piece 42	
		Field (d of view <u>l°,0</u> Power <u>36</u>	
		-		
• (Can this galaxy be seen with direct vision,	or is aver	verted vision required?	
• 7	What is the overall shape? 2x1 ell.	pse. N	mend	
	s a core noticeable? Yes /10	, , , ,		
	s the core compact or stellar?			
• (Can any detail be seen between the core ar	id the out	uter envelope of the object? Yes, no	
• A	are the edges of the outer envelope sharp	or diffuse?	503 Eside of 1300 Wride 13	صەر
• 0	Can any detail or mottling be seen in the o	uter envel	velope (bright or dark patches or lanes)?	
	o short any tener deep-say objects in the	c same nei	field of view? If so, what? Ench other	
			of dom diffuse sweep of	
-			1300 stroite	
-				
(1999 C	ole & Pratt)			7

Object ID: Noc 1325	(4) 2
Object ID: 196C 1265	
Const.:	
RA: Dec.:	Date 9/30/8
Mag: Size:	Time 8:00 v
	Location Ohre Tex
	Seeing T Transparency T
•	Instrument XT-12
· · · · · · · · · · · · · · · · · · ·	Size 12
	Eyepiece 2× 42
	Field of view 0,5 Power 75
0 019	
• Can this galaxy be seen with direct vi	sion, or is averted vision required?
	st a reedle, on a famt fis.
• Is a core noticeable?	
• Is the core compact or stellar?	
• Can any detail be seen between the co	ore and the outer envelope of the object? \sim
• Are the edges of the outer envelope sh	arp 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? 1319 1 m pred
Description	
(1999 Cole & Pratt)	

Observing Log

Ob	ject	type:	G	alaxy

Object	type: Galaxy
Object ID:	M Z
Const.:	Observer B. YOM
RA: Dec.:	Date 9/30/8
Mag: Size:	Time 7:40 UT
	Location Dhire Tex
	Seeing Transparency
	Instrument XT-12
	Size 12
	Eyepiece 2×42
	Field of view 0°.3 Power 75
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape? $ au$	
• 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? \(\lambda \)_
Are the edges of the outer envelope sharp or	•
	ter envelope (bright or dark patches or lanes)? \mathcal{N}_{\circ}
• Are there any other deep-sky objects in the	same field of view? If so, what? \sim
Description	
Description	
(1999 Cole & Pratt)	
-	

Observing Log

		-	
Object	type:	Open	Cluster

#2

,			•
Observer	B. YOUNG	<u></u>	_
Date	10/3/8		
Time	3!25 UT		
Location	Olice-Teo	×	_
Seeing	Transparency	——	
Instrument	X+-12		_
Size	12		-
Eyepiece	ZX 42		
•Field of view	Power_	752	
•	رما	re 1502	_
ter? 6 e particular area? N	sity noticed?	N.	
			,
vittu ili tula tiuatti i	m so, do they shot	any comis:	
e same field of view?	If so, what? $\sim_{\mathcal{O}}$,	, -
e same field of view?		•	
֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	Date	Date 10/3/8 Time 3:25 VT Location OL 1e - Tec Seeing T Transparency Instrument XT-12 Size 12 Eyepiece ZX 42 Field of view Power Location OL 1e - Tec Seeing T Transparency Transparency The second of the	Date 10/3/8 Time 3125 V7 Location OLive Tex Seeing II Transparency II - Instrument XT-12 Size 12 Eyepiece 2X 42 Field of view Power 75% Lowe 150% om the background stars? Out ter? 6 ter? 6 ter area? No

(1999 Cole & Pratt)

Object ID: NG-C 1353	H-7
Const.:	Observer Byont
RA: Dec.:	Date 01/30/8
Mag: Size:	Time 8, 30 U
	Location Objectex
	Seeing Transparency T
	Instrument XT-17
	Size 12
	Eyepiece 2×42 Field of view 6.5 Power 5
	Field of viewO*\foots Power
	Use
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape? Foodsall	
 Is a core noticeable?	
Is the core compact or stellar?	
-	
• Can any detail be seen between the core and	
• Are the edges of the outer cuvelope sharp or	diffuse?
 Can any detail or mottling be seen in the out 	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	same field of view? If so, what?
Description	
(1999 Cole & Pratt)	

Observing Log

	_	t type: Galaxy	H2
Object ID:	LC 1400+1457 X	402	(12
	♠	Observer B. Youn	
RA:	Dec.:		
Mag:	Size:	Date	
Iviag.		Location Dire-Tex	
	N. M.	Seeing Transpare	ncy
	T T	Instrument XT-12	
1200		Size 12	
	•	Eyepiece 2×42	
	•	Field of viewPower	75
	. Polo	<u> </u>	
	Valor	\frac{1}{t}	
. Nor	. 2	9	
 Can this galaxy l 	be seen with direct vision,	or is averted vision required?	
• What is the over	all shape? Nanks		
Is a core noticeal	ble? Yes/yes/no	/10 (26 rgh+, 2 dom))
Is the core comp	- '		
		nd the enter annulus of the thirty	2124
		nd the outer envelope of the object?	on y in svig.
• Are the edges of	the outer envelope sharp	or diffuse?	one some western to sor lanes)?
 Can any detail or 	r mottling be seen in the o	uter envelope (bright or dark patche	s or lanes)?
 Are there any oti 	her deep-sky objects in the	e same field of view? If so, what?	L ,
			t galaxies
Description			
1999 Cole & Pratt)			

Observing Log Object type: Nebula

Object ID:	NGC 149			H2
Const.:		Observe	B. YOWE	
RA:	Dec.:	Date	10/3/8	
• Mag:	Size:	Time	3:35 15	
		Location	Olive -Tex	
		Seeing_	Transparency_	TI-
		Instrum	ent <u>XT-12</u>	
		Size	12	
	fail:	Eyepiece	2x 42	
	153	Field of	viewPower	152
		/		
		/		
• Can this ne	ebula be seen with Ci	rect vision, or is averte	d vision required?	
• Is there an	overall shape of the	object or is it/simply in	egular?	
			ned? South of stay	
	_	, ,	, , ,	
• Is any part	of the nebula bright	ter or more concentrate	d? Around som	
• Is there any	y particular area who	ere you notice an absen	ce of stars in this cluster? $ imes$	
Are there a	ny voids or dark pat	tches, or lanes in the ne	bula? Any bright filaments or	streamers?
			ious stars involved with this ne	\sim
				Duia. (2)
 Any sugges 	tions for observing t	his nebula (I.e. filter, p	ower, field of view, etc.)?	
• Are there a	ny other deep-sky ol	bjects in the same field	of view? If so, what? No	
Description				·
	no contraction of the contractio	35 MB M		
(1999 Cole & Pratt)		, , , , , , , , , , , , , , , , , , ,		

Object ID: 1507	HZ
Const.:	Observer B1 Your
RA: Dec.:	Date 0/2/8
Mag: Size:	Time 7:15 VK
	Location Olice Tex
	Seeing Transparency
	Instrument XT-12
	Size
į,	Eyepiece 2x42
	Field of viewPower
Are there any other deep-sky objects in the s Description	the outer envelope of the object? diffuse? der envelope (bright or dark patches or lanes)?
(1999 Cale & Prott)	

		Observing Log	PNOY FNGE 23
Object	NJC 1574	ject type: Planetary Neb	oula (AN) (CARY EN
Object ID:			By PNOC
Const.:	710	Observer	By MOC
RA:	Dec.:	Date	3/11/5
Mag:	Size:	Time	19:20 cs
		Location	Mce
		Seeing	Transparency
	•	Instrument	en
	•	Size	125
	•	Eyepiece	25
	•	Field of view	Power
		- W	Var
		-	21
What is the	overall shape? Glow	on 9m stor	D=01 D-A=No
Is this plane	etary casy or difficult to	identify in your field?	WBNF regid
			Cs visible
	color of this planetary?		AV for detail
Is it disk-sha	aped or is it more stellar	r in appearance?	(& power)
Are the edge	es of the disk sharp or d	liffuse?	
Is the center	hrighter, darker, or the	e same hrightness as the ed	loses some hone had been to
	or gardly darkery or the	e same brightness as the ed	1900. July 1900 1900
Any suggest	ions for observing this n	nebula (Le. filter, power, fic	eld of view, etc.)? Power tends to
Are there an	ry other deep-sky object	ts in the same field of view?	If so, what?
			If so, what? No
Description\	1-V= 2A M=1		2.60
.999 Cole & Pratt)			

Observing Log Object type: Nebula

42

Object ID	: NGC 1579	—	11 6
Const.: _	Per	Observer By	1-
RA:	Dec.:	Date	3
· Mag:	Size:	Time 8:45 C	ST
		Location MCC	
		Seeing I Transpar	rency
	•	Instrument XT-13	2
	•	Size 12	
- (•	Eyepiece 2×42	
- 1	•	Field of viewPo	wer
\	•		
		tes but use	
• Can th	his nebula be seen with direct vi	sion, or is averted vision required?	
• Is ther	re an overall shape of the object	or is it simply irregular? Bar-sh	eye
• Is any	part of the outer edge of the ne	bula sharply defined? No++ao	much
• Is any	part of the nebula brighter or i	nore concentrated? One wear	near center
		ı notice an absence of stars in this clusto	
		or lanes in the nebula? Any bright filan	
• Is ther	e an open cluster nearby or inv	olved or any obvious stars involved with	this nebula? 3
• Any su	uggestions for observing this ne	oula (I.e. filter power, field of view, etc.)?
• Are th	ere any other deep-sky objects	in the same field of view? If so, what?	No
Descriptio	on .		
			4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
(1999 Cole & P	'ratt)	· · · · · · · · · · · · · · · · · · ·	^ ^
			62

Observing Log Object type: Open Cluster

,	_	cot type. Open Cita	H	2
Object ID: NGC	1582		B. 40 WF	•
Const.: Pe	~	Observer	B. 40 wh	. *
RA:	Dec.:	Date	11/26/8	
Mag:	Size:	Time	8:30 CST	
		Location	RMCC	
			Transparency_	**
			XT-12	Albaine and a second
	•	Size	12	<u> Carabanilli (1888-1888) ann an an</u>
		Eyepiece		
	\	Field of view	Power	,6
	99 35 AF *-B	1 C 4b - 1 - 1	ال الاستناسال	
-		d from the backgroun	, -	
 What is the overall 	shape of the object	t? 2 backs	vard s	
How many stars ca	ın yon count in the	cluster? 25		
Are the stars more	concentrated in an	y one particular area	? N°	
		some background ne		
				,
Is there any partic	ular area where you	notice an absence of	stars in this cluster? \wedge	/0
• Are there any part	icularly bright star	s involved in this clust	ter? If so, do they show a	ny colors? 🌙
Are there any other	r deep-sky objects	in the same field of vic	ew? If so, what? NGC	1606 rent
•	•			
Description				
(1999 Cole & Proff)				10

HERSCHEL OBSERVATIONS

				المستجيد المستجيدات	
Mac 5985		SITE /	MCC	SEEINO II	TRANS
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Dr.			2"	EYEMECE 2x42	75×
		COMMENTS			
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	l de la companya de	la	Loois		
DATE					
11/2/8					
TIME	/				
2130 V					
		SITE (MCC	SEEING	TRANS
CONST.				SEEDIO TT	TRAY
Pra		DISTR	12"	SYMPSES 2X42	POWER
		COMMENTS	· U	L 4X4.7	
			- 3:		
		K / 12	e shape	-000	<u> </u>
	sia.				
DATE	*		ger ch ch	<u>~p</u>	
11/2/7				· · · · · · · · · · · · · · · · · · ·	
TIME				***************************************	
21401				·	
V. (00)		1	1		a a
MOC 6340		SITE (Mcc	SEEDING.	TRANS
HOC 6746		INSTR			TRANS T
CONST		Instr	Mcc 12m	SEEING EYEMECE ZXYZ	TRANS THE POWER TO X
CONST		INSTR COMMENTS	12"	EXEMECE	75K
CONST		INSTR COMMENTS	12"	EXEMECE	POWER 75X
CONST		COMPUENTS NT	12" e ellip n	EXEMECE	POWER 75X
CORST	· · · · · · · · · · · · · · · · · · ·	COMPUENTS NT	12" e ellip n	EXEMECE	POWER 75X
CORST	®	COMPUENTS NT	12"	EXEMECE	POWER 75X
DATE 1/2/8	®	COMPUENTS NT	12" e ellip n	EXEMECE	POWER 75X
DATE 1/2/8	•	COMPUENTS NT	12" e ellip n	EXEMECE	POWER 75X
DATE 1/2/8	•	COMPUENTS NT	12" e ellip n	EXEMECE	75x Fule
DATE 1/2/8 THATE 2:50 A	•	COMMENTS	12" ce ellip u edges	SYEPTECE 2X42	75x
DATE 1/2/8 TIME 2:50 M	•	COMMENTS NTC	12" edges MCC	SEEDING	750K
DATE 1/2/8 THATE 2:50 N		COMMENTS NTC	12" ce ellip u edges	SYEPTECE 2X42	75x
DATE 1/2/8 TIME 2:50 M		COMMENTS NTC	12" edges MCC	SEEDING	750K
DATE 1/2/8 TIME 2:50 M		COMMENTS NTC STE INSTR	12" e ellip n edges MCC	SEEDING TO BYRHECE 42mm	FOLIANS I
DATE 1/2/8 TIME 2:50 M		COMMENTS STE INSTR	12" edges MCC	SEEDING TO BYRHECE 42mm	FOLIANS I
DATE 1/2/8 TIME 2:50 M		COMMENTS STE INSTR	12" e ellip n edges MCC	SEEDING TO BYRHECE 42mm	FOWER 3
DATE 1/2/8 THATE 2:50 AT NOC 1587 CONST TAV		STIE COMMENTS NOTE INSTR COMMENTS Med	12" e ellip n edges MCC Z" ssize over	SEEDING TO BYRHECE 42mm	FOMER TRANS
DATE 1/2/8 11/2/8 TIME 2:50 M NOC 1587 CONST + AV		STIE COMMENTS NOTE INSTR COMMENTS Med	12" e ellip n edges MCC	SEEDING TO BYRHECE 42mm	FOLIANS I
DATE 1/2/8 THATE 2:50 A NOC 1587 CONST TAV		STIE COMMENTS NOTE INSTR COMMENTS Med	12" e ellip n edges MCC Z" ssize over	SEEDING TO BYRHECE 42mm	FOMER TRANS
DATE 1/2/8 TIME 2:50 M NOC 1587 CONST TAV		STIE COMMENTS NOTE INSTR COMMENTS Med	12" e ellip n edges MCC Z" ssize over	SEEDING TO BYRHECE 42mm	FOLIANS I

Object ID: NGC 1600	ltz
Const.:	Observer B, YOWL
RA: Dec.:	Date 10/2/8
Mag: Size:	Time 7:25 UT
	Location Ohic Tex
	Seeing Transparency
	Instrument XT-12
•	Size 2
<i>₩</i>	Eyepiece ZX 42
	Field of view Power
• Can this galaxy be seen with direct vision	ı, or is averted vision required?
• What is the overall shape? Namb	
• Is a core noticeable?	
• Is the core compact or sellar?	•
• Can any detail be seen between the core a	and the outer envelope of the object? $ were} $
• 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 state of	ne same neid of view? If so, what?
Description	
(1999 Cole & Pratt)	

•	voser armä maä
C	Object type: Nebula on over ?
Object 10:	- '
Const.:ler	Observer B. Yow
RA: Dec.:	Date 11/26/08
Mag: Size:	Time 8:30 pm CST
	Location RMCe
	Seeing Transparency T
	Instrument XT-12
	Size 2
.*	Eyepiece 2x 42
•	Field of viewPower
	The
• Can this nebula be seen with direct visi	on, or is averted vision required?
• Is there an overall shape of the object of	r is it simply irregular?
Is any part of the outer edge of the nebu	ula sharply defined? Yes
Is any part of the nebula brighter or mo	,,,,
	·
Is there any particular area where your	notice an absence of stars in this cluster? No
• Are there any voids or dark patches, or	lanes in the nebula? Any bright filaments or streamers? \mathcal{N}_{\diamond}
• Is there an open cluster nearby or invol	ved or any obvious stars involved with this nebula? May be
Any suggestions for observing this nebu	da (Le. filter power, field of view, etc.)?
_	0,0
Are there any other deep-sky objects in	
Description	is newby &
	O.C. THAT IS!
######################################	
(1999 Cole & Prait)	

Object ID: NGC 1618/1622	H2
Const.:	Observer B. YOUNG
RA: Dec.:	Date 10/2/8
Mag: Size:	Time 7:50 UT
1622	Seeing Transparency T
	Instrument XT-12
	Size 12
. 🐞	Eyepiece \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Field of view Power 150x
1618	
• Can this galaxy be seen with direct vision, or	is averted vision required?
• What is the overall shape? Elman	al l
• Is a core noticeable? N, N	
• 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?) 1622
• Can any detail or mottling be seen in the oute	er envelope (bright or dark patches or lanes)?
	ame field of view? If so, what? Each other
in the second of the seco	ame need of view: 11 so, what: Exch offer
Description	
(1999 Cole & Pratt)	

Observing Log Object type: Open Cluster

H2

			, ,	
Object ID:NG				:
Const.:	Per	Observer	BYONG	
	Dec.:	Date	11/26/8	· · · · · · · · · · · · · · · · · · ·
VIag:	Size:	Time	9:40 pm CST	
		Location	MCC	<u> </u>
		Seeing I	Transparency	<u> </u>
	1	Instrument_	XT-12	
	•	Size	12	
		Eyepiece	ZXY2	:
		Field of view	Power	75
	/			: :
	• /			
				-
			4	
Can this cluster	be easily distinguished	from the backgroun	id stars? Yes	
• What is the over	all shape of the object?	· Bar		
How many store	can you count in the cl	Incter?		
	•			•:
Are the stars mo	re concentrated in any	one particular area	? N _o	
Is this cluster res	solved fully or is there s	ome background no	bulosity noticed?	
Is there any part	ticular area where vou	notice an absence of	stars in this cluster? \mathcal{N}_o	
Are there any pa	irticularly bright stars	involved in this clus	ter? If so, do they show any	colors? ~
Are there any ot	her deep-sky objects in	the same field of vi	ew? If so, what? \mathcal{N}_{\wp}	
	2 1		. ^	
Description	Ldbls	pont	to it	÷.
				:
				:
(1999 Cole & Pratt)	•			

Object ID: NGC 1637		H2
Const.:	Observer Bi Youle	V
RA: Dec.:	Date 10/2/8	
Mag: Size:	Time 7:55 M	
	Location Ohie Tex	
	Seeing Transparency	
	Instrument XT-12	
	Size 12	
	Eyepiece (🔿	
	Field of view Power	50K
		:
• Can this galaxy be seen with direct vision,	or is averted vision required?	
• What is the overall shape? O 🛝		
• Is a core noticeable?		
• Is the core compact or stellar?		
• Can any detail be seen between the core an	d the outer envelope of the object? More	hy
Are the edges of the outer envelope sharp or	diffuse?	1
• Can any detail or mottling be seen in the or		nes)? Some
 Are there any other deep-sky objects in the 	same field of view? If so, what?	
Description		
		-
(1999 Cole & Pratt)		/ 9

Observing Log Object type: Open Cluster

HZ

Object ID: NGC 1662	
Const.:	Observer 3 your
RA: Dec.:	
Mag: Size:	·
	Location (LM CC
	Seeing T - Transparency I -
	Instrument XT-12
	Size 12
	Eyepiece $42mm + 2xB$
	Field of view <u>0°,5</u> Power <u>75</u> ×
 Can this cluster be easily distinguis 	shed from the background stars?
What is the overall shape of the ob	ject? (=
 How many stars can you count in t 	the cluster? 50
	any one particular area? In Clomp in center
 Is this cluster resolved fully or is th 	nere some background nebulosity noticed? Mostly resolved
• Is there any particular area where	you notice an absence of stars in this cluster? inside &
 Are there any particularly bright s 	tars involved in this cluster? If so, do they show any colors?
 Are there any other deep-sky object 	cts in the same field of view? If so, what? N_{\odot}
Danavinsia	
resr shriou	
(1999 Cole & Pratt)	7n

Observing Log Object type: Open Chuster

Object ID:	NGC 1663			H2
	D ci	Observer	Byom	: - -
	Dec.:	Date	2/2/08	:
•	Size:		10:10 CST	
			MCC	
	· · ·	Seeing	Transparency	兀一
	4		XT-12	
		Size	12	:
		Eyepiece	42+82/00	
		Field of view	Power	75 X
		/	**************************************	: : :
				:
• Are the sta	y stars can you count in the	any one particular area?		
• Is this clus	ter resolved fully or is the	ere some background ne	bulosity noticed?	
• Is there an	y particular area where	you notice an absence of	stars in this cluster? $$	0
• Are there	any particularly bright st	ars involved in this clust	er? If so, do they show an	y colors? 3 on
• Are there :	any other deep-sky objec	ts in the same field of vie	w? If to what? . /	No co
	and amor acchant anies	oo aa saa saaas aasa u Tit		
Description				
(1999 Cole & Pratt)	•			71
				/ / /

Object ID: NGC 1700	HZ
Const.:	Observer B. Yowk
RA: Dec.:	Date 10/2/8
Mag: Size:	Time 8105 UT
	Location Ohie-Tex
	Seeing Transparency T
	Instrument XT-12
	Size 12
• • • • • • • • • • • • • • • • • • •	Eyepiece
	Field of viewPower
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape?	
• Is a core noticeable?	
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?
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	, , ,
and there any other deep-sky objects in the s	same neid of view? If so, what?
Description	
(1999 Cole & Pratt)	
	72

	Coloct type: Open	HZ	
Object ID: <u>NGC 17</u>	50		•
Const.: Tau	Observer	B. 70VNG	
RA: Dec.:	Date	11/26/8	
Mag: Size:	Time	9:50 CST	
	Location	RMCC	
	Seeing_	Transparency 4	
	Instrumen	nt XT-12	
	Size	12	
	Eyepiece	10	•
	Field of vi	iew Power	
	/		-
	/ —		
Can this cluster he easily di	istinguished from the backgr	ound stars? Ye S	
•			
	f the object? Clymp	new c stars	
• How many stars can you co	ount in the cluster?) O		
• Are the stars more concent	rated in any one particular a	rea? No	
• Is this cluster resolved fully	or is there some backgroun	d nebulosity noticed?	
		e of stars in this cluster? No	
	4	cluster? If so, do they show any col	No
• Are there any other deep-si	ky objects in the same field o	f view? If so, what? THIS IS	
Th. 1.1		nger NGC 174	L.
Description			
5000 C 1 . D			
(1999 Cole & Pratt)			73
	•		

N/0 10/0	, ,
Object ID: NGC 1762	-
Const.:	Observer B. Yom
RA: Dec.:	Date
Mag: Size:	Time 10,20 csc
	Location MCC
	Seeing Transparency T
. \	Instrument XT-12
	Size 12
<i>₿</i>	Size 12 Eyepiece 42+3 arlan
/	Field of view Power 25x
	10mg to mak
	£.
• Can this galaxy be seen with direct visio	n, or is averted vision required?
• What is the overall shape? $low l$	6.41
*	/0/x/
• Is the core compact or stellar?	
• Can any detail be seen between the core	and the outer envelope of the object 20 %
• Are the edges of the outer envelope shar	p or diffuse?
	e outer envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the state of	the same field of view? If so, what?
Description	
- washing	
(1999 Cole & Pratt)	

Ouje	ect type. Open Chister
Object ID: NGC 1778	_ H2
Const.:	Observer B. 7an
RA: Dec.:	Date 12/29/8
Mag: Size:	Time 8:30 CS5
	Location MCC
	Seeing Transparency T
	Instrument XT-12
	Size 12
	Eyepiece Zx Y?
and the second	Field of view Power 75×
· Ot	
Can this cluster be easily distinguished	d from the background stars?
 What is the overall shape of the object 	1? None
How many stars can you count in the cou	cluster? ~Zo
•	y one particular area? Jeven 1 dbls
• Is this cluster resolved fully or is there-	some background nebulosity noticed?
• Is there any particular area where you	notice an absence of stars in this cluster? $ ightharpoonup_{\mathcal{O}}$
Are there any particularly bright stars	s involved in this cluster? If so, do they show any colors?
	in the same field of view? If so, what? \sim_{\circ}
- And there any other deep-sky objects if	in the same inch of arm: 11 Sp. Mint; 1~0
Description	
(1999 Cole & Pratt)	

Observing Log Object type: Galaxy

HZ

Object ID: NGC 1832		
Const.:	Observer B	Your
RA: Dec.:	Date 11/	26/08
Mag: Size:	<u> </u>	100 CST
	Location	CMCC .
	Seeing I	Fransparency
	Instrument	ナール
	Size 12	
∦ :	Eyepiece 2x	42
	Field of view	Power75
• Can this galaxy be seen with direct vision, o	r is averted vision requir	ed?
• What is the overall shape?		
• Is a core noticeable? N_o		
• Is the core compact or stellar?		
/		
• Can any detail be seen between the core an	d the outer envelope of th	e object? N_{\odot}
• Are the edges of the outer envelope sharp of	diffuse?	
• Can any detail or mottling be seen in the ou	ter envelope (bright or da	ark patches or lanes)? \mathcal{N}_{σ}
Are there any other deep-sky objects in the		
		/ · · · · · · · · · · · · · · · · · · ·
Description		
(1999 Cole & Pratt)		

Observing Log

Ouje	ect type: Open Cluster
Object ID: NGC 1883	H2
Const.:	Observer Bi Yowk
RA: Dec.:	
Mag: Size:	
	Location MCC
	Seeing Transparency 7
	Instrument XT-12
	Size 12
منية أن للمان	Eyepiece 2X Y 2
	Field of view Power
• Can this cluster be easily distinguished	from the background stars?
 What is the overall shape of the object? 	'
How many stars can you count in the cl	luster?)O
• Are the stars more concentrated in any	one particular area? No
Is this cluster resolved fully or is there s	some background nebulosity noticed?
Is there any particular area where you	notice an absence of stars in this cluster?
Are there any particularly bright stars i	involved in this cluster? If so, do they show any colors? \mathcal{N}_{o}
• Are there any other deep-sky objects in	the same field of view? If so, what?
Denvil	
Description	
(1999 Cole & Pratt)	

Observing Log Object type: Nebula

st.: <u>Ori</u>	O	bserver	BY	
De	c.: D:	ite	11/25/3	
g: Size	e: Ti	me	11:10 CST	
	L	cation	MMcc	
	Se	eing 8	Transparency _	4+
	In	strument	PTX125	
	Si	ze	125	
	E	epiece	40	
			Power	17
	_	·		
	_			
Is there an overall sha	en with direct vision, or is	iply irregula	ar)	sme abou
Is there an overall sha Is any part of the out	ape of the object or is it sin er edge of the nebula sharp	iply irregula	No.	
Is there an overall sha Is any part of the out Is any part of the neb	ape of the object or is it sin er edge of the nebula sharp oula brighter or more conc	oly defined?	No Hond brightes	t stars (4
Is there an overall shalls any part of the outers any part of the neb	ape of the object or is it siner edge of the nebula sharpula brighter or more concert area where you notice ar	oly defined? entrated?	with the stars in this cluster?	t stars (4 Vo
Is there an overall sha Is any part of the oute Is any part of the neb Is there any particula Are there any voids o	ape of the object or is it siner edge of the nebula sharpoula brighter or more concert area where you notice are dark patches, or lanes in	oly defined? entrated? absence of the nebula?	stars in this cluster? Any bright filaments	t Stars (4 Vo or streamers?
Is there an overall sha Is any part of the oute Is any part of the neb Is there any particula Are there any voids o Is there an open clust	ape of the object or is it singles of the nebula sharp oula brighter or more concert area where you notice and dark patches, or lanes in the nearby or involved or a	oly defined? entrated? absence of the nebula? ny obvious s	stars in this cluster? Any bright filaments tars involved with this	t Stars (4 Vo or streamers?
Is there an overall sha Is any part of the oute Is any part of the neb Is there any particula Are there any voids o Is there an open clust	ape of the object or is it siner edge of the nebula sharpoula brighter or more concert area where you notice are dark patches, or lanes in	oly defined? entrated? absence of the nebula? ny obvious s	stars in this cluster? Any bright filaments tars involved with this	t stars (4 Vo or streamers?
Is there an overall shalls any part of the outer Is any part of the neb Is there any particular Are there any voids or Is there an open clust Any suggestions for o	ape of the object or is it singles of the nebula sharp oula brighter or more concert area where you notice and dark patches, or lanes in the nearby or involved or a	oly defined? entrated? absence of the nebula? ny obvious s ilter, power,	stars in this cluster? Any bright filaments tars involved with this field of view, etc.)?	t Stars (4 Vo or streamers? an a nebula? Yes,
Is there an overall shalls any part of the outers any part of the neb. Is there any particular Are there any voids of the suggestions for outer there any other descriptions.	ape of the object or is it singles of the nebula sharp oula brighter or more concert area where you notice and dark patches, or lanes in the rearby or involved or a observing this nebula (I.e. followed-sky objects in the same	oly defined? entrated? absence of the nebula? ny obvious s ilter, power, e field of vie	stars in this cluster? Any bright filaments tars involved with this field of view, etc.)? w? If so, what?	t Stars (4 Vo or streamers? an a nebula? Yes,
Is there an overall shalls any part of the outers any part of the neb. Is there any particular Are there any voids of the suggestions for outer there any other descriptions.	ape of the object or is it singles of the nebula sharp oula brighter or more concert area where you notice and dark patches, or lanes in the nearby or involved or a observing this nebula (I.e. for the state of the serving this nebula (I.e. for the state of the serving this nebula (I.e. for the state of the serving this nebula (I.e. for the state of the serving this nebula (I.e. for the serving the serving this nebula (I.e. for the serving this nebula (I.e. for the serving the servi	oly defined? entrated? absence of the nebula? ny obvious s ilter, power, e field of vie	stars in this cluster? Any bright filaments tars involved with this field of view, etc.)? w? If so, what?	t Stars (4 Vo or streamers? an a nebula? Yes,
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	Observing Log Object type: Nebula
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	Instrument XT-12
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Observing Log Object type: Nebula

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		Object type: Nebula	112
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Description			

(1999 Cole & Pratt)

Observing Log Object type: Nebula

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• Is any part of the nebula brighter or more co	·
• Is there any particular area where you notice	•
• Are there any voids or dark patches, or lane	s in the nebula? Any bright filaments or streamers? 🥕
• Is there an open cluster nearby or involved o	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 s	same field of view? If so, what? 🌭
Description	
(1999 Cole & Prati)	

Observing Log Object type: Nebula

#2

Object ID: NGC 28	
Const.:	Observer B. Yout
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Any suggestions for observing this nebula ((Le. filten power, field of view, etc.)?
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Description	
(1999 Cole & Pratt)	

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	_	Observing Lo	g Cotnops ster H2 evy 1x
	0	bject type: Open Cli	ister HZ engly
Object ID:	NGE 2112	· ·	10:00-10:5
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•	Dec.:		9
Mag:	Size:		10:50 CST
_		Location	RMCC
		Seeing	Transparency T
	*	Instrument_	<u> </u>
		Size	12
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			A A
• Can this	cluster be easily distinguish	ed from the backgroun	nd stars? Some what
• What is	the overall shape of the obj	ect? lones&	chap
How ma	ny stars can you count in th	e cluster?	•
			, , elon
• Are the s	stars more concentrated in a	nny one particular area	1? In central clump 5-h
• Is this cl	uster resolved fully or is the	re some background n	ebulosity noticed?
• Is there:	any particular area where v	ou notice an absence o	f stars in this cluster? No
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• Are ther	e any particularly bright sta	ars involved in this clus	ster? If so, do they show any colors? No
• Are ther	e any other deep-sky object	s in the same field of vi	iew? If so, what? 🏡
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Description	With the state of		
(1999 Cole & Prat	t)		\sim 1
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Observing Log Object type: Galaxy

Object ID: NGC 2139	H2
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RA: Dec.:	Date 11/26/8
Mag: Size:	Time CST
	Location (MCC
	Seeing Transparency T
	Instrument XT-17
· \	Size 12
	Eyepiece 2×42
	Field of view Power
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape? \mathcal{N}_{o}	
• Is a core noticeable?	
• Is the core compact or stellar?	
Can any detail be seen between the core and	the outer envelope of the object? ~o
• Are the edges of the outer envelope sharp or	diffuse?
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	
and more any omer neep-say objects in me	same field of view? If so, what?
Description	
(1999 Cole & Pratt)	

Object ID: NGC 2170 + 2182/2183 Const.:) <u> </u>
Const.: Mon Observer By 10 MG RA: Dec.: Date V1/9 Mag: Size: Time 9:45 cm Location CMCC Seeing II Transparency II Instrument XIII Size 12 Eyepiece 2X 42 Field of view Power 752	
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2100	
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? Rond nebula on	. 9 ~
Is any part of the outer edge of the nebula sharply defined?	
Is any part of the nebula brighter or more concentrated?	
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 streame	rs? 🖊
Is there an open cluster nearby or involved or any obvious stars involved with this nebula?	'es
Any suggestions for observing this nebula (Le. filter, power) field of view, etc.)?	
Are there any other deep-sky objects in the same field of view? If so, what? Yes, 2004	er
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and proxi	
1999 Cole & Prett)	

10 - 01-03	Object type: Nebula	1) C
Object ID: NC 2/82		
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	nebula sharply defined?	
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Is there an onen cluster nearby or it	nvolved or any obvious stars involved with t	hie nehulo? 🛂
		iis nebula. Jes
	nebula (I.e. filter power) field of view, etc.)?	
• Are there any other deep-sky object	ts in the same field of view? If so, what?	10-PM SIDO
Description		new
(1000 Cale & Pross)		

Object ID: N6-2192		HZ.
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· ·	Eyepiece _	2×42
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 Can this cluster be easily distinguished from 	n the backgro	ound stars?
• What is the overall shape of the object?	lund	
How many stars can you count in the cluster	r? 10 +	1000 0 5
Are the stars more concentrated in any one		
• Is this cluster resolved fully or is there some	0+3	
• Is this cluster resolved fully or is there some	background	nebulosity noticed?
• Is there any particular area where you notice	ce an absence	of stars in this cluster? No
Are there any particularly bright stars invo	lved in this c	luster? If so, do they show any colors? 🌙
Are there any other deep-sky objects in the		
Are there any other deep-say objects in the	Jame Held V	VIOVE II bo, Wallet (00
Description		
(1999 Cole & Pratt)		00
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Observing Log Object type: Galaxy

Object ID: N-c 2	2196			HZ
Const.: Le		Observer	Biy	iont
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	1	Instrument_		
	1	Size	12	
4		Eyepiece	2×1	17
" 1	·]			Power 75
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• Can this galaxy be seen v	with direct vision.	, or is averted vis	ion required:	?
			-	
• What is the overall shape		udge		
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• Is the core compact or st	ellar? M			
Can any detail be seen be		and the outer enve	elone of the o	hiect? No
Are the edges of the oute	r envelope sharp	or diffuse? No		
• Can any detail or mottlin	ig be seen in the e	outer envelope (b	right or dark	patches or lanes)?
Are there any other deep	-sky objects in th	e same field of vi	ew? If so, w	hat? No
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(1999 Cole & Pratt)			· · · · · · · · · · · · · · · · · · ·	

Observing Log

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	Obj	ject type: Open Cluster		* a
Object ID:	NGC 2215			42
Const.:	Mon	Observer	Biyout	
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			12.	
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(1999 Cole & Prait)

Object ID:	NGC 2236		H2
Const.:	Mon	Observer	B. Your
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	·	Field of vi	ewPower
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_	y stars can you count in		
• Are the sta	ars more concentrated i	n any one particular a	rea? No
• Is this clus	ster resolved fully or is t	here some background	nebulosity noticed?
• Is there an	ny particular area where	e you notice an absenc	e of stars in this cluster? \sim_{\circ}
• Are there	any narticularly hright	ctare involved in this o	duster? If so, do they show any colors? $ ho $
		•	,
• Are there	any other deep-sky obje	ects in the same field o	f view? If so, what? No
Description			
(1999 Cole & Prutt)	-		0

Observing Log Object type: Nebula

Object ID: NAC 2245/2247	2243
Const.: Mon	Observer By YOM
RA: Dec.:	Date 12/29/8
Mag: Size:	Time 10/15 CJ5
2247	
	Seeing Transparency T
	Instrument XT-12
*	Size 12
	Eyepiece 2×42
	Field of view Power
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""	
• 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?
• Is any part of the outer edge of the nebula	harply defined? Yes, yes
• Is any part of the nebula brighter or more of	concentrated? Centers
Is there any particular area where you notice	ce an absence of stars in this cluster?
A re there are voids or doub notable or lan	es in the nebula? Any bright filaments or streamers?
• Is there an open cluster nearby or involved	or any obvious stars involved with this nebula?
• Any suggestions for observing this nebula (Le. filter power, field of view, etc.)?
• Are there any other deep-sky objects in the	same field of view? If so, what?
	then or her
Description	
(1999 Cole & Pratt)	α

Obj	ject ID: YGC 2252		H2
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	: Dec.:	Date	
Ma	g: Size:	Time	91 45 csr
		Location	mce
		Seeing	Transparency T
		Instrumer	nt XT-12
(24		Size	2
		Eyepiece	2x42
	\	Field of vi	ew Power
	(106)	-	
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	Are the stars more concentrated in any one	A	
•	Is this cluster resolved fully or is there some	background	nebulosity noticed?
•	Is there any particular area where you notic	e an absenc	e of stars in this cluster? $\sim\!$
• ,	Are there any particularly bright stars invol	ved in this o	Juster? If so, do they show any colors? 🍋
• .	Are there any other deep-sky objects in the	same field o	Tview? If so, what? Someworded as
	•	•	Sha.m
Des	cription		,
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(1999	Cole & Pratt)		97

	Object type: Galaxy
Object ID: NFC NS	HZ
Const.: Cam	Observer B. Yowk
RA: Dec.:	
Mag: Size:	
	Location (MCC
	Seeing II Transparency II
	Instrument XT-12
•	Size 12
•	Eyepiece 2x42
	Field of view Power
• Can this galaxy be seen with dire	ect vision, or is averted vision required?
• What is the overall shape?	and a
	nless tho 13 the core
• Is the core compact or stellar?	
• Can any detail be seen between t	he core and the outer envelope of the object? \sim
• Are the edges of the outer envelo	pe sharp or diffuse?
Can any detail or mottling be see	n in the outer envelope (bright or dark patches or lanes)? Mo
Are there any other deep-sky obj	ects in the same field of view? If so, what? No
Description	
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(1999 Cole & Pratt)

Untitled

HII's and NGC 2253's Existence
This message: [Message body] [More options]

Related messages: [Next message] [Previous message] [In reply to] [Next in thread] [Replies]

From: Peter Natscher ^lt;natscher_at_redshift.com>

Date: Fri Sep 09 2005 - 08:35:32 PDT

Below is the reply I received from Candace Pratt of The Herschel Observing Program, Portland, Oregon, regarding my query of the existence of NGC 2253 for observation. She has literally paraphrased what I already have printed in my latest edition of the guidebook (third printing 1999).

Peter

Hi Peter:

In the 7 years since the introduction of the Herschel II Observing Program there have been 3 objects that observers have written about as being difficult/unable to observe. Those objects include NGC 2253, NGC 1990 and NGC 1750. As we researched these three objects we learned that our original reference documents (primarily Megastar) were in error.

For the third edition of the publication (published in 1999), we addressed these issues and this edition hopefully provides descriptions and locations that are more informative. We observed these objects numerous times again and hope the latest edition corrects any problem.

Regarding NGC 5756 and 5602, a printing error in the Second Edition occurred which incorrectly added 5756 to the list, and deleted 5602. Again, the third printing corrected this. NGC 5602 is the correct object, not 5756.

Below is the descriptive information from this latest edition for these three objects:

NGC 1990

Type: Neb RA: 05h 36m 12.0s Dec: -01 12' 00"

Direct vision with difficulty. A very large, faint, diffuse glow of nebulosity surrounding Epsilon Ori, a brilliant blue-white star. In a C-11 it appears to be over 30' in extent with no distinct edges. Very dark conditions help considerably.

NGC 2253

Type: Ocl RA: 06h 42m 24.0 sec Dec: +66 20' 00"

size: 3.0

Only slightly distinguishable from the background field of view. Oval to rectangular in shape with about 8 resolvable stars plus nebulosity. A "box" of 4 stars appears in the field; the cluster is between the 2 fainter stars forming the box. Located 1.4 degrees SW of 42 Cam.

Untitled

NGC 1750 Type: Ocl

RA: 05h 03m 54s Dec: +23 39' 00"

Small round collection of about 2 dozen stars forming a circle with a bright central star. There are two other open clusters associated with this group: NGC 1746 and 1758. A fun group! Located 1 degree SW of 103 Tau.

As additional information, Brent Archinal's "Star Clusters", Willman Bell, 2003 says the following about 2253:

Listing on page 62:

Name Type R.A Dec. Con. Diam #str S# 20 Ref Comments and aliases
NGC 2253 cl? 06 42.6 +66 24 Cam 3.0 15 1 15 53 See Notes
Identification of NGC 2253 is uncertain. Assumed here to be small group observed by A.Ling.

Page 163 reports the following on NGC 2252, aka Herschel VII.54.

NGC 2253: The identity of this object, William Herschel's VII.54, is discussed in Archinal [1993,59-60]. It was proposed that this small group of stars observed in approximately the correct position for this object by A. Ling.

However, Ling has now pointed out [provate communication, 1995] that this group of stars is probably not the correct object, and that of NGC 2253 is likely the galaxy UGC 3511. This identification was apparently suggested by Susan French, assuming that Herschel had made a (this being about 30' south of Herschel's discovery position). However, H. Corwin [private communication, 2002] has recently pointed out that W. Herschel would have called this small faint galaxy a class VII star cluster.

Therefore the true identity of NGC 2253 continues to be unclear, although it is listed in the catalog here as the original group of stars originally listed by Ling.

Candace Pratt

----Original Message---From: Peter Natscher [mailto:natscher@redshift.com]
Sent: Thursday, September 08, 2005 11:21 AM
To: Carole Cole; Candace Pratt
Subject: Herschel II Observing Program Objects

Hi Carole and Candace,

I am in the process of observing, logging, describing, and sketching all of Page 2

		ojossojpo. Open dia		42
bject ID:	NGC 2254			11.
onst.:	Mon	Observer	Biyan	
A:	Dec.:	Date	12/29/8	
Гад:	Size:	Time	9:25 CS	
		Location	Rncc	
		Seeing	Transparency 1	
	`	Instrument_	25-12	· · · · · · · · · · · · · · · · · · ·
	·		n	
		Eyepiece	2x42	
	14	Field of view	Power	
	4	/		
How many s	overall shape of the objectars can you count in the smore concentrated in a	e cluster?	17 A.A.	
			·	
	r resolved fully or is the			
Is there any	particular area where y	ou notice an absence o	f stars in this cluster? \mathcal{N}_{ϕ}	
Are there an	y particularly bright sta	ars involved in this clus	ster? If so, do they show any col	ors? Yes
Are there an	y other deep-sky object	s in the same field of v	iew? If so, what? 杺	
Description				
(1999 Cole & Pratt)	-			~ -
	·			

		Object type: Open (luster	
Object ID:	Nfc 2259			42
	Man	Observer	B. Your	
	Dec.:			
Mag:	Size:	Time	9:10 05	
;			RMCC	
		Seeing	T Transparency	T
		Instrumen	XT-12	
	•		12	
		Eyepiece_	2×42	
	• ***	Field of vi	Power_	75
		/		
·		•		
. Com Abin al	uster be easily distinguis	shad Sam the back-	and the way	
			Junu stars:	
• What is the	e overall shape of the ob	ject? Nomb	;	
• How many	stars can you count in t	the cluster? $NoNe$!	
Are the sta	urs more concentrated in	any one particular a	rea? No	
Is this clust	ter resolved fully or is th	ere some background	nebulosity naticed?	
	•			
	- -		of stars in this cluster?	
• Are there a	my particularly bright s	tars involved in this c	luster? If so, do they show	any colors? 🦳
• Are there a	any other deep-sky object	ets in the same field of	view? If so, what? 🛚 🔨	0
•	•			
Description				
Mans a			1	

Observing Log

	Object type: Nebula
Object ID: NGC 2261	— HZ
Const.: Mon	Observer B. Your
RA: Dec.:	Date 12/29/8
Mag: Size:	Time 9!00 CST
	Location CM CC
	Seeing II Transparency II
	Instrument XT-12
	Size 12
	Eyepiece 2×42
	Field of view Power
• Can this nebula be seen with direc	t vision or is averted vision required?
• Is there an overall shape of the obj	ect or is it simply irregular? Fund doud
• Is any part of the outer edge of the	e nebula sharply defined? Yes
	or more concentrated? Az 57~
• Is there any particular area where	you notice an absence of stars in this cluster?
Are there any voids or dark patche	es, or lanes in the nebula? Any bright filaments or streamers?
Is there an onen cluster pearly or	involved or any obvious stars involved with this nebula?
	nebula (I.e. filter, power, field of view, etc.)?
• Are there any other deep-sky object	cts in the same field of view? If so, what? to, by eary to
Description	
	olyser
	to NE
(1999 Cole & Pratt)	

			117
Object ID:			n. <u> </u>
Const.:	Observer	B. Your	·
RA: Dec.:	Date	1/1/9	<u> </u>
Mag: Size:	Time	10:30pm	
•	Lecation	RMCe	
	Seeing	Transparency	
	Instrument_	Xr-12	· ·
	Size	12	
	Eyepiece	242	-,-
· · ·	Field of view	Power 75x	
		,	
 Can this cluster be easily distingui 	ished from the backgrou	nd stars? No	
 What is the overall shape of the ol 	bject? Curre of	Stars from 10m	
• How many stars can you count in	the cluster? 10		
• Are the stars more concentrated in		· No	
 Is this cluster resolved fully or is t 	here some background n	ebulosity noticed?	
Is there any particular area where	e you notice an absence o	f stars in this cluster? 🍎	
 Are there any particularly bright 	stars involved in this clu	ster? If so, do they show any colors	? No
	•	•	_
 Are there any other deep-sky objection 	ects in the same near of A	264: 11 30; WHAL.	
Description			
neset thron			
MRAG C. A. D. W.			
(1999 Cole & Pratt)			101
			1

Observing Log Object type: Galaxy

Object ID: N/C 2274	HZ
Object ID: NGC 2274 Const.: Gem	Observer B. Yound
RA: Dec.:	
Mag: Size:	Time 9:15 CS5
	Location MCC
	Seeing I Transparency I
	Instrument XT-12
	Size 12
	Eyepiece 2x 42
	Field of view Power
	100
• Can this galaxy be seen with direct vision	n, or is averted vision required?
• What is the overall shape? $\angle X$	
• Is a core noticeable? N∘	
Is the core compact or stellar?	
	and the outer envelope of the object? N_0
• Are the edges of the outer envelope sharp	p op 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 t	the same field of view? If so, what? No, con 7 see
	2275
Description Very Frank 10	desall
(1999 Cole & Pratt)	
	101

Observing Log Object type: Galaxy

Object ID: NG 2283	
Const.:	Observer By York
RA: Dec.:	
Mag: Size:	Time 9130 CST
	Location MCC
	Seeing Transparency T
•••	Instrument XT-12
	Size 2
•	Eyepiece 42+2X
	Field of viewPower
• Can this galaxy be seen with direct vision	, or is averted vision required?
• What is the overall shape? O.	
• Is a core noticeable? No	
•	
• Is the core compact or stellar?	
• Can any detail be seen between the core a	nd the outer envelope of the object? N_o
• 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 th	same field of view? If so, what? No, but
Description	Swin Just to N
(1999 Cole & Pratt)	

Object ID: _	NGC 2302		and the second s	2
Const.:	Mon	Observer	Biyont	-
	Dec.:	Date	1/1/9	
Mag:	Size:	Time	10100 pm	
		Location	Rncc	
		Seeing	Transparency	
	1		XT-12	
	•		12	
			2×42	· · · · · · · · · · · · · · · · · · ·
- \			Power75	
			4	
 What is t How man Are the s Is this ch Is there a Are there 	•	eluster? Zo one particular area some background no notice an absence of involved in this clus	ebulosity noticed? f stars in this cluster?	
Description				
(1999 Cole & Prat	±)			103

Object ID: NAC 2309	H2
Const.: Man	Observer B. Yowk
RA: Dec.:	Date
Mag: Size:	Time 10:10 pm
	Location MACC
	Seeing Transparency Z
	Instrument XT-12
	Size /2
	Eyepiece 2x Y2
	Field of view Power
· /	
Can this cluster be easily distinguished !	from the background stars?
What is the overall shape of the object?	
 What is the overall shape of the object? 	tantheb on eege
• How many stars can you count in the clo	
• Are the stars more concentrated in any	one particular area? While else
Is this cluster resolved fully or is there so	
Is there any particular area where you re	notice an absence of stars in this cluster?
Are there any particularly bright stars is	involved in this cluster? If so, do they show any colors? No.
Are there any other deen sky chiests in	a the same field of view? If so, what? \sim_2
- 2200 there any other deep-say objects in	E CARO CHILARO DE PACTY. SA SU, TYLIAL. NO
Description	
1	
(1999 Cole & Fruit)	

Observing Log

_	. 6	Object type	: Nebula		<i>i</i>
Object ID:	NGE 2316.	14			+2
Const.:	Mon	Obs	erver	B. Your	2
RA:	Dec.:	Date		1/1/9	
Mag:	Size:	Tim	e	155 pm	
		NO NO Loca	ation	mce'	
		10 FU? Seei	ng I	Transparency	
		Inst	rument	YTIL	
		Size	12		
	•	Eye	piece 2	X42	
	a.	Field	d of view	Power	75%
		/			
				_	
• Can this no	ebula be seen with	direct vision, or is av	erted vision r	equired?	
		e object or is it simp			1 10
					*
• Is any part	t of the outer edge o	of the nebula sharply	defined?	ary well	
 Is any part 	of the nebula brig	hter or more concen	rated? No		
• Is there any	y particular area w	here you notice an a	bsence of star	s in this cluster?	Nossur 3
• Are there a	any voids or dark p	atches, or lanes in th	e nebula? An	y bright filament	s or streamers? N_{\circ}
• Is there an	open cluster nearb	y or involved or any	obvious stars	involved with this	s nebula? Yes
		g this nebula (I.e. filt	Section 5. D. Se		
• Are there a	any other deep-sky	objects in the same	ield of view?	If so, what? Ye	s-famtoc?
					ANTID
					FITRUT
——————————————————————————————————————					
(1999 Cole & Prait)					

H2

Object ID:	LC 2331		<u>.</u>	
Const.:	Gen	_ Observer	B. Yout	
***************************************	Dec.:	Date	12/28/08	
	Size:	Time	9:50 CST	
		Location	MCC	
		Seeing	Transparence	<u></u>
	1	Instrume	ut XT-12	
		Size	12	
		Eyepiece	2×42	
		Field of vi	ewPower	757
 What is the over How many stars Are the stars mo Is this cluster res Is there any part Are there any part Are there any ot 	can you count in the clore concentrated in any solved fully or is there sticular area where you articularly bright stars	inster? ~ 3 one particular a come background notice an absence involved in this of	rea? One champ nebulosity noticed? e of stars in this cluster? cluster? If so, do they sho f view? If so, what?	on east six
(1999 Cole & Prait)				10/

Observing Log Object type: Galaxy

Object ID: NGC 2339 Const.: Gem Observer Date 9135 pm CST Mag: _____ Size: ____ Time Location Transparency I I Seeing Instrument XT-12 12 Size Eyepiece 2x 42 Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? $\bigcirc \checkmark \land \setminus$ Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core and the outer envelope of the object? N_{\circ} 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)? My Are there any other deep-sky objects in the same field of view? If so, what? N_2 Description

(1999 Cole & Pratt)

_	Observing Log
Object ID: NLC 2346	Object type: Cinster/Nebula
Const.: Mon	Observer B. Youl
RA: Dec.:	# * *
Mag: Size:	Time 10:00 em
	Location RMCC
	Seeing Transparency I-
	Instrument XT-12
	Size 2
@	Eyepiece 10
	Field of view Power 50%
	+0Ⅲ
	any one particular area? How many stars are in the cluster? No
 Is any part of the nebula brighter of 	
	you notice an absence of stars in this cluster?
·	
	s, or lanes in the nebula? Any bright filaments or streamers?
• Any suggestions for observing this r	nebula (I.e. filter power) field of view, etc.)?
 Are there any other deep-sky object 	ts in the same field of view? If so, what? 🍾
Description ON File	rally helps
(1999 Cole & Pratt)	

Observing Log

117

Object ID: NGC 2347	1) C
Const.:	Observer B. YOUNG
RA: Dec.:	Date 1/17/9
Mag: Size:	Time 9:00 CJT
	Location RMCC
	Seeing II Transparency II
*	Instrument XT-12
	Size 12
	Eyepiece 2X42
	Field of view Power
• Can this galaxy be seen with direct vision of	r is averted vision required?
• What is the overall shape? (low)	
• Is a core noticeable? Disaste core	? No - Suralloha
• Is the core compact or stellar?	J 536 72 11 57 7 1
•	
• Can any detail be seen between the core and	the outer envelope of the object? N_0
• Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	same field of view? If so, what?
Description SEYFENT. NO	WONDER IT WAS DIFFICAT
(1999 Cole & Pratt)	

STREATERS RESERVES PROSPECTORS PROSPECTORS PROSPECTORS PROSPECTORS

Object ID: _	_						
Const.:	CMa		Observer_	B1 4	,	•. ·	
RA:	Dec.:		Date	2/9/			
Mag:	Size:		Time	9:50	CST		
			Location		<u>C</u>		
	• ,		Seeing	Tra	ınsparency		-
	(\	Instrument	<u>XT</u>	-17	·· ·······	
	. 1		Size	12			<u></u>
)	Eyepiece	42+	ZX		
		.	Field of vie	w	Power_	75 X	
	Supplied to the supplied to th	· . /			T		
							
• Can both	the cluster and ne	bula be seen wit	h (direct vision	or is averted	l vision rea	uired?	
	the cluster and ne						
• Is there ar	overall shape of	he object or is is	t simply irreg	ular? FAT	- 11 V N	SHAR	
• Is there ar		he object or is is	t simply irreg	ular? FAT	- 11 V N	SHAR	
 Is there ar Is any par	overall shape of	he object or is it	t simply irreg	ular? FAT	- "V" 4, ESP	SHAM.	JEST SIC
 Is there ar Is any par Are the sta	t of the outer edge	he object or is it of the nebula st ated in any one p	t simply irreg	ular? FARC a? How many	y stars are	5 HAA	JEST 510 liter? No
Is there areIs any pareAre the stateIs the cluster	t of the outer edge ars more concentr	he object or is it of the nebula st ated in any one p	t simply irreginarply defined particular are is there a dist	ular? FARC a? How many inct separation	y stars are	5 HAA	JEST 510 iter? No
Is there areIs any pareAre the stateIs the cluster	t of the outer edge	he object or is it of the nebula st ated in any one p	t simply irreginarply defined particular are is there a dist	ular? FARC a? How many inct separation	y stars are	5 HAA	JEST 510 liter? No
 Is there are Is any pare Are the state Is the cluster Is any pare 	t of the outer edge ars more concentrater embedded in the tof the nebula bri	he object or is in of the nebula stated in any one parties or more consider or more consider or motice.	t simply irreginarply defined particular are is there a distoncentrated?	ular? FARC a? How many inct separation BM(GHT	y stars are	in the clus	iter? No CLUSTEN MOUT
 Is there are Is any pare Are the state Is the cluster Is any pare Is there and 	t of the outer edge ars more concentrater embedded in the tof the nebula bring ty particular area	he object or is in of the nebula stated in any one particular or more considered where you notice.	t simply irreginarply defined particular are is there a distouchment and absence of an absence of the simple contract of the simple contr	ular? FARC a? How many inct separation BAIGHT of stars in this	y stars are n? An cluster?	in the clus	SEST SIG
 Is there are Is any pare Are the str Is the cluster Is any pare Is there are Are there are 	t of the outer edge ars more concentrater embedded in the tof the nebula bring by particular area	he object or is it of the nebula st nted in any one p ne nebulosity or ghter or more co where you notice patches or lanes	simply irreginarply defined particular are is there a distoncentrated? e an absence on the metals in the nebular	ular? FARC a? How many inct separation BM (GHT of stars in this a? Any bright	y stars are n? Cluster?	in the clus Many or stream	JEST 510 INTER ABOUT CAPS ers?
 Is there are Is any pare Are the str Is the cluster Is any pare Is there are Are there are 	t of the outer edge ars more concentrater embedded in the tof the nebula bring ty particular area	he object or is it of the nebula st nted in any one p ne nebulosity or ghter or more co where you notice patches or lanes	simply irreginarply defined particular are is there a distoncentrated? e an absence on the metals in the nebular	ular? FARC a? How many inct separation BM (GHT of stars in this a? Any bright	y stars are n? Cluster?	in the clus Many or stream	JEST 510 INTER ABOUT CAPS ers?
 Is there are Is any pare Are the strength Is the cluster Is any pare Is there are Are there are Any sugge 	t of the outer edge ars more concentrater embedded in the tof the nebula bring by particular area	he object or is in of the nebula stated in any one particle or more constitution of the patches or lanes of this nebula (L.	t simply irreginarply defined particular are is there a distoncentrated? e an absence of the analysis in the nebular section.	alar? FARC a? How many inct separation BALGHT of stars in this a? Any bright er, field of view	y stars are in? Ay cluster? t filaments y, etc.)?	in the clus Many or stream	JEST 510 INTER ABOUT CAPS ers?
 Is there are Is any pare Are the strength Is the cluster Is any pare Is there are Are there are Any sugge 	t of the outer edge ars more concentrater embedded in the tof the nebula bridge any voids or dark stions for observing	he object or is in of the nebula stated in any one particle or more constitution of the patches or lanes of this nebula (L.	t simply irreginarply defined particular are is there a distoncentrated? e an absence of the interpolation in the nebulation of the interpolation is the interpolation of the interpolation in the in	alar? FARC a? How many inct separation BALGHT of stars in this a? Any bright er, field of view	y stars are in? Ay cluster? t filaments y, etc.)?	in the clus Many or stream	JEST 510 INTER ABOUT CAPS ers?
 Is there are Is any pare Are the state Is the cluster Is any pare Is there are Are there are Any sugge Are there are 	t of the outer edge ars more concentrater embedded in the tof the nebula bridge any voids or dark stions for observing	he object or is in of the nebula stated in any one parties or more converged by the state of the	t simply irreginarply defined particular are is there a distoncentrated? e an absence of the interpolation in the nebulation of the interpolation is the interpolation of the interpolation in the in	alar? FARC a? How many inct separation BALGHT of stars in this a? Any bright er, field of view	y stars are in? Ay cluster? t filaments y, etc.)?	in the clus Many or stream	JEST 510 INTER ABOUT CAPS ers?
 Is there are Is any pare Are the state Is the cluster Is any pare Is there are Are there are Any sugge Are there are 	t of the outer edge ars more concentrater embedded in the tof the nebula bridge any voids or dark stions for observing	he object or is in of the nebula stated in any one parties or more converged by the state of the	t simply irreginarply defined particular are is there a distoncentrated? e an absence of the interpolation in the nebulation of the interpolation is the interpolation of the interpolation in the in	alar? FARC a? How many inct separation BALGHT of stars in this a? Any bright er, field of view	y stars are in? Ay cluster? t filaments y, etc.)?	in the clus Many or stream	JEST 510 INTER ABOUT CAPS ers?
 Is there are Is any pare Are the state Is the cluster Is any pare Is there are Are there are Any sugge Are there are 	t of the outer edge ars more concentrater embedded in the tof the nebula bridge any voids or dark stions for observing	he object or is in of the nebula stated in any one parties or more converged by the state of the	t simply irreginarply defined particular are is there a distoncentrated? e an absence of the interpolation in the nebulation of the interpolation is the interpolation of the interpolation in the in	alar? FARC a? How many inct separation BALGHT of stars in this a? Any bright er, field of view	y stars are in? Ay cluster? t filaments y, etc.)?	in the clus Many or stream	JEST 510 INTER ABOUT CAPS ers?

Object ID: NGC 2366	
Const.:	Observer BIYOWG
RA: Dec.:	Date 1/17/9
Mag: Size:	Time 9:10 CST
	Location CMCC
	Seeing Transparency T
/ •	Instrument XT-12
**	Size 12
	Eyepiece 2x 42
	Field of view Power
	11)0
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? 3X1 Clon	gated
• Is a core noticeable? No	
Is the core compact or stellar?	
<u>-</u>	
Can any detail be seen between the core and	the outer envelope of the object? No
• Are the edges of the outer envelope sharp of	diffuse?
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)? 🍋
Are there any other deep-sky objects in the s	ome field of view? If so, what?
many venter deep may objects in the	and first. If so, what.
Description	
(1999 Cole & Prait)	

Observing Log Object type: Open Cluster

Object ID: NGC 2367	type. Open class	H2	_
•		0	
Const.:	Observer	B. YOUNG	
RA: Dec.:	Date	2/9/8	
Mag: Size:	Time	10:20 CST	•
	Location	RMCC	
\cdot	Seeing 1		
\·\	Instrument		
	Size	12	
	Eyepiece	42+2×	
	Field of view	Power 5×	
 Can this cluster be easily distinguished from the cluster is the overall shape of the object? How many stars can you count in the cluster the stars more concentrated in any one. Is this cluster resolved fully or is there some. Is there any particular area where you not. Are there any particularly bright stars inv. Are there any other deep-sky objects in the 	ter? /5 ne particular area? ne background ne tice an absence of volved in this clust	bulosity noticed? stars in this cluster? No er? If so, do they show any colors?	Vo Nice Me
Description			
	1		 '
(1999 Cole & Pratt)			12

Observing Log

_				7-8
Objec	t t	vpe:	Oper	ı Cluster

Object ID: NGC 37	<u>Y</u>		,
Const.:	Observer	B. Your	
RA: Dec.:	Date	2/9/8	
Mag: Size:	·	10700 CST	
	Location	Mcc	
	Seeing I	Transparency _	工
	Instrument	XTIZ	
	Size	12	
	Eyepiece	42+2x	
	Field of view	Power	75x
· ·			
 Can this cluster be easily distingu 	ished from the background	stars? No	
 What is the overall shape of the o 	bject? Lye spraw	·	
How many stars can you count in	* *	*	
• Are the stars more concentrated i		millle runs	(2)
Is this cluster resolved fully or is t	here some background nebu	losity noticed?	
 Is there any particular area where 	e vou notice an absence of st	ars in this cluster?	J _o
	· .		
 Are there any particularly bright 	stars involved in this cluster	? If so, do they show :	any colors? />s
 Are there any other deep-sky objection 	ects in the same field of view	? If so, what? \sim_{\circ}	
Description			
		-	
(1999 Cole & Prutt)			

Object ID: NGC 2396	Che)
Const.:	Observer B. Yowk
RA: Dec.:	Date 2/9/8
Mag: Size:	
	Location MCC
	Seeing Transparency T
	Instrument X+-12
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Size
	Eyepiece 42+2×
	Field of view Power
N	
426	
• Can this cluster be seen with direct vision	on, or is averted vision required?
• Is the core unusually bright, compact or	or not distinguishable? No - famu, ever but
Is this globular cluster highly or loosely	r not distinguishable? No - family even by concentrated? Middle
Is any part of the cluster resolved into st	stars: 7e)
Is any mottling visible?	bhord Dow of mresowed
Can the edges be resolved?	
• Are there any other deep-sky objects in	the same field of view? If so, what?
o more any other book only objects in	and being note of their at 500 Harre
Description	
1999 Cale & Brott	

Observing Log
Object type: Globular Cluster

#2

Object ID: NGC 2414	Open
Const.:	Observer B, Yom
RA: Dec.:	Date
Mag: Size:	Time 10:30 CST
	Location RMCC
	Seeing I Transparency I
	Instrument XT-12
	Size
	Eyepiece) \circ
	Field of view Power 56x
• Can this cluster be seen with direct visi	
• Is the core unusually bright, compact of	or not distinguishable? — yes, bright star w/bee
Is this gluinlar cluster highly or loosely	
Is any part of the cluster resolved into s	stars? Yes - no blogs. fuzz @ 150x
• Is any mottling visible? No _ ~	isolved
• Can the edges be resolved?	resolved
Are there any other deep-sky objects in	the same field of view? If so, what?
Description	

(1999 Cole & Pratt)

Object ID: NG-C 2415	H2
Const.: Lyn	Observer B. Yound
RA: Dec.:	Date 12/28/08
Mag: Size:	Time 9:20 pm CST
	Location MCe
	Seeing Transparency T
. \	Instrument X+-12
	Size 12
	Eyepiece 2x42
584° ·	Field of view Power
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape?	4
• Is a core noticeable? Some	
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?
• Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)? 🌭
Are there any other deep-sky objects in the s	
	wine interest it so, what:
Description	
(1999 Cole & Pratt)	

PROPERTOR PROPER

Object ID: NGC 2432	oe HZ
Const.: Py	Observer B. Yowk
RA: Dec.:	Date 2/9/3
Mag: Size:	Time 11:00CST
	Location RMCC
	Seeing Transparency T
	Instrument XT-)Z
	Size 12
	Eyepiece 42+2x
	Field of view Power
CC	
· Can this games be seen with direct vision, o	r is averted vision required?
• What is the overall shape? Lone's o	f stors
• Is a core noticeable?	us) shape
• Is the compact or stellar?	rs I shape
	the outer envelope of the object? Not really
• Are the edges of the outer envelope sharp or	diffuser No glow - resolved
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)? 🍋
Are there any other deep-sky objects in the	
one of the state o	same neid of view? If so, what?
Description	
(1999 Cole & Pratt)	

	Observing Log	
11100000	Object type: Galaxy Oc/Nel HZ	
Object ID.		
Const.:	Observer B. Your	
RA: Dec.:		
Mag: Size:	Time	
	Location RMCC	
	Seeing Transparency	SSE4
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Instrument XT-12	
er than t	Size 12	
	EyepieceO	
	Field of view Power	D X
OC Con this color has a six of		
• Can this galaxy be seen with direct vis		
• What is the overall shape? Bees	and emission/reflection re	bila
• Is a core noticeable? Certain		
• Is the core compact or stellar?	in 10 stars + squash	cehile
	re and the outer envelope of the object?	to the man E and
	·	
Are the edges of the outer envelope sha	COLONIA SOSTA CAST ELECTRICA CONTRACTOR CONT	•
 Can any detail or mottling be seen in the 	he outer envelope (bright or dark patches or lanes)? Fairly
Are there any other deep-sky objects in	the same field of view? If so, what?	pebula
	M	/ JEBOTA
Description		
(1999 Cole & Pratt)		
use de l'am)		

	210	Object type: Galaxy		17
Object ID:	NGC 252			
Const.:	CMa	Observer	B. YOUNG	
RA:	Dec.:	Date	2/9/8	
Iag:	Size:	Time 9	140 CST	
		Location	RMCC	
	•		Transparency	
	•	Instrument	XT-12	·
1	• • •	Size	12	
		Eyepiece	0	·
		Field of view	Power_	50
		nore 11	easing a 75	2
		· ·	<i>.</i> .	
	-	ct vision, or is averted vision re	equired?	
What is the Is a core not Is the core Can any de Are the edg Can any de	e overall shape?	he core and the outer envelope pe sharp or diffuse?	of the object? No	
What is the Is a core not Is the core Can any de Are the edg Can any de	e overall shape?	he core and the outer envelope be sharp or diffuse?	of the object? No	
What is the Is a core not Is the core Can any de Are the edg Can any de Are there a	e overall shape?	he core and the outer envelope of sharp or diffuse? In in the outer envelope (bright ects in the same field of view?	of the object? No or dark patches or la If so, what? No	
What is the Is a core not Is the core Can any de Are the edg Can any de Are there a	e overall shape?	he core and the outer envelope pe sharp or diffuse?	of the object? No or dark patches or la If so, what? No	
What is the Is a core not Is the core Can any de Are the edg Can any de Are there a	e overall shape?	he core and the outer envelope be sharp or diffuse? In in the outer envelope (bright ects in the same field of view?	of the object? No or dark patches or la If so, what? No	

(1999 Cole & Pratt)

Observing Log

Object type: Cluster/Nebula Object ID: NGC 2610 HZ Observer Dec.: Date HIOCOT Size: Time MCC Location Transparency _____ Seeing I Instrument XT-12 12 Size _____)0 Eyepiece Field of view _____ Power _ 50× 4 OU FILTEN Can both the cluster and nebula be seen with direct vision, or is averted vision required? Is there an overall shape of the object or is it simply irregular? Is any part of the outer edge of the nebula sharply defined? Are the stars more concentrated in any one particular area? How many stars are in the cluster? Is the cluster embedded in the nebulosity or is there a distinct separation? Is any part of the nebula brighter or more concentrated? No Is there any particular area where you notice an absence of stars in this cluster? C. S. home Are there any voids or dark patches, or lanes in the nebula? Any bright filaments or streamers? 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? Description

(1999 Cole & Pratt)

Object ID: NEC 2639	
Const.:	Observer BY
RA: Dec.:	Date 5/20/7
Mag: Size:	Time 12100
	Location Mce
	Seeing Transparency T
	Instrument XT-12
	Size 2
· ′ 😘.	Eyepiece25
	Field of view Power <u>60 X</u>
	INC
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape? Rank	3
• Is a core noticeable? Com	
• Is the core compact or stellar?	
Can any detail be seen between the core an	ed the outer anyelene of the chiest?
• Are the edges of the outer envelope sharp of	or diffuse3
• Can any detail or mottling be seen in the o	uter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	e same field of view? If so, what?
Description Small, and m	nru field
(1999 Cole & Pratt)	

H2

10 - 200	
Object ID: Nec 2756	
Const.:	Observer B. 10M
RA: Dec.:	Date 4/15/9
Mag: Size:	Time 2:30
	Location RMCC
	Seeing I Transparency I
	Instrument
	Size
•	Eyepiece
	Field of view Power
	(consideration of the constant of the constan
• Can this galaxy be seen with direct vision, o	or is averted vision required?
• What is the overall shape? Mund	
• Is a core noticeable? γ_{ϱ}	
• Is the core compact or stellar?	
• Can any detail be seen between the core and	d the outer envelope of the object? No
• Are the edges of the outer envelope sharp of	r(diffuse?)
Can any detail or mottling be seen in the out	iter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	same field of view? If so, what?
Description	DM Bollsed
Description	
M000 Cut. 6 Yu. 40	

						1
	By YOUNG	5/3/8	XT-12 h	SEEING	NGC 2765	
	SITE	TIME	POWER	TRANSPARENCY	CONSTELLATION	
	GREENEAF ST. PARL	10120pm	74×	エー	- Hyd	
Form less 17the glaw -use AV, ~13mg						
	Dovous on WAY	- PLOOTE	0 317 SE (OF IT - POR	FECT PANA SPUT	wr

NAME	DATE	Instrument	SEEING	OBJECT NAME
1 (ti	12"	11	Who Ionsh
SITE (\	10:37em	POWER 74x	TRANSPARENCY	CONSTELLATION
G · A	(hyphone)	DESCRIPTION	. N	
Steady 5low	, •	P=22 Hyd	00/	Mx freld

				42
NAME I)	DATE	INSTRUMENT	SEEING	NHE Z85X
sit,	10:40 m	POWER 74x	TRANSPARENCY	CONSTITUTION
Sm, elliptical, Just 5 of abl.		description volves, for z	y to edge	es, rodsinction

				72
NAME	BATE	ENSTRUMENT (SKICING N	NGC 2781
SITE	10:50pm	POWER / (TRANSPARENCY //	CONSTRILATION
Dm-reed A	V :	DESCRIPTION at all _ of	- 4	ring k- then

could see directly by still difficult -no detail very small, compact nucleus -nearly stellar, some glow

Object ID: NG-C 2784	
Const.: Hyl	Observer B. Your Date 3/15/09
RA: Dec.:	Date 3/15/09
Mag: Size:	Time 10:40 CDT
	Location CM CC
	Seeing Transparency T
	Instrument X T-17
	Size 12
	Eyepiece 2x42
	Field of view Power
now the same	
• Can this galaxy be seen with direct vision or	r is averted vision required?
• What is the overall shape? Now for	
• 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? / Vo
• Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)? 🤸
Are there any other deep-sky objects in the s	name field of view? If so, what? \(\)
	100
Description	
(1999 Cole & Pratt)	

Object	ct type: Galaxy	,
Object ID: <u>NG-C 2805</u>		Tomas
Const.: UMa	Observer B. Yound	<u> </u>
RA: Dec.:		
Mag: Size:	Time 10100 pm	
	Location RMCC	
	Seeing Transparency Transparency	
	Instrument XT-12	
	Size 12	
	Eyepiece ZXY2	~~~
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Field of view Power	
Can this galaxy be seen with direct vision.		
• What is the overall shape? Some	elly + ram ? - No this is	}
• Is a core noticeable?	JUST THE CO	ME
• Is the core compact or stellar? No	carllent see	
Can any detail be seen between the core a	the dish.	
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)?	Jo
Are there any other deep-sky objects in the	he same field of view? If so, what? 🗸	
Description		
(1999 Cole & Pratt)		

Observing Log

Object type: Galaxy 47 Object ID: NGC 2880 Const.: ______ Observer Dec.: ____ RA: _____ Date Mag: _____ Size: ____ Time Location Seeing II Transparency II -Instrument $\chi \tau_{-12}$ Size Eyepiece 2×42 Field of view _____Power _______ Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? 1, 7 board? no - 173 Just the core Is a core noticeable? They all of it 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?) Cau 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

(1999 Cole & Pratt)

me DM-	5/3/8	INSTRUMENT 12"		SIEING T-	NGC 2889
TR	TEME	POWER		TRANSPARENCY	CONSTELLATION
5. PAM	11/20pm	DESCRIPTION			L Hyd
.m field	by ear	y to ford	~	xt to 2	sows. Spral?
	, , , , ,		2-4	3,20 40	
	Sr. PAM m freld	5/3/8 So. PAM 11/20pm In field by eased core, not me	ont 5/3/8 124 TOME POWER So. PAMU 11/20pm 74X DESCRIPTION on field by easy to find, ed core, not much detail	ont 5/3/8 12" THE FOWER So. PAMIL 11:00pm 74X DESCRIPTION m field by easy to find, ne ch core, not much detail by	ont 5/3/8 12" III TO THE FOWER TRANSPARENCY So. PAMIL 11: Dopon 74X II DESCRIPTION on field by easy to find, next to 2 ed core, not much detail by souls a

DATE INSTRUMENT SEEING NAME u 11 11 11 TIME TRANSPARENCY 11:10pm DESCRIPTION

Small dinglow, Offof a D of sours, side that has a wide dbl. Comparer nucleus, ear't be size of type of galaxy I mag, DV. No ald'I detail u/ night eye or AV

					l , _		
Г	NAME	DATE	INSTRUMENT	SEEING	OBJECT NAME		
ı	<i>c</i> 1	11	11	(1	NGC 3162		
1	SITE	TIME	POWER	TRANSPARENCY	CONSTELLATION		
1	(t	11:20pm	(1	((LEO		
T	DESCRIPTION						
Frity dam, large possibly spiral, well seen w/ compact							
I	ovolers, Av brags of a laste note glow area						

DEW NOTE: STARTIME TO GET SOME

HZ

NAME	DATE	PISTRUMENT		SECONG	OBJECT NAME
· II	n	. 11	- 1	11. 1	NG-C 3177
372	TEME	POWER		TRANSPARENCY	CONSTILLATION
I.	11:30pm	tı		(1)	Leo
	U	DESCRIPTION		^	
Ersy one to find	olf 3	AV only	۰, ۰	o signof	anucleus of
10.09 00 10 13.00		1			
any letail					
20. 9 20,201					

NOT AN

Object ID: NGC 3027	
Const.:	Observer B, YOWG
RA: Dec.:	Date 3/3/9
Mag: Size:	Time 0: 25
	Location RMCC
	Seeing Transparency T
	Instrument XT-12
	Size 12
•	Eyepiece 2x42
	Field of view Power
• Can this galaxy be seen with direct vision, o	or is averted vision required?
• What is the overall shape? Com	
• Is a core noticeable?	
Is the core compactor stellar?	
• Can any detail be seen between the core and	d the outer envelope of the object?
• Are the edges of the outer envelope sharp or	r diffuse?
• Can any detail or mottling be seen in the ou	ster envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	
the same and the s	703
Description	
(1999 Cal. & B	

H2 /	type: Galaxy
Object ID: NGC 3065/3066	
Const.:	Observer B, Yom
RA: Dec.:	Date 3/31/9
Mag: Size:	Time 10:40
	Location RMCC
	Seeing Transparency T
' \	Instrument $XT-1Z$
	Size
	Eyepiece 2×42
	Field of view Power 75
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? Now & on	
• Is a core noticeable?	
) '	
• 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? X 2
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)? No
Are there any other deep-sky objects in the s	same field of view? If so, what? Rach other
Description	
(1999 Cole & Pratt)	

Observing Log

Object type: Galaxy Object ID: N6-c 3067 Observer B, 40 M Const.: RA: _____ Dec.: ____ Date 2000 COT Mag: _____ Size: Time Location Seeing Transparency T Instrument XT-12 12 Size Eyepiece 2x 4 2 Field of view _____ Power ______ Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? Anothor Is a core noticeable? 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 diffuses. 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? No, D free Description

(1999 Cole & Pratt)

Object ID: NG-C 3078			HZ
Coust.: 17 d	Observer	S. your	
RA: Dec.:	Date	3/15/09	
Mag: Size:	Time	1015500	
	Location	rmce	
	Seeing <u>I</u>	Transparency	
	Instrument	X+-12	
	Size	12	
5	Еуеріесе	2×42	
	Field of view_	Power 76 N	<u></u>
 Can this galaxy be seen with direct vision, 	or is averted visio	required?	
• What is the overall shape? Conk			
• Is a core noticeable? ✓ o			
• Is the core compact or stellar? №o			
-			
• Can any detail be seen between the core as	d the outer envelo	ppe of the object? No	
Are the edges of the outer envelope sharp of	or diffuse?		
Can any detail or mottling be seen in the or	uter envelope (bri	ght or dark patches or lanes))? No
Are there any other deep-sky objects in the	same field of view	e? If so what?	
		v? If so, what? 🚕	
Description			
			
(1999 Cole & Pratt)			

Object ID: NGC 3079 (W)	(3073) AZ
Const.: UMa	Observer_ 0, Your
RA: Dec.:	
Mag: Size:	Time 2:05
	Location MCC
	Seeing Transparency
	Instrument $XT-12$
	Size 12
	Eyepiece 2×42
	Field of view Power
• Can this galaxy be seen with direct vision,	, or is averted vision required?
What is the overall shape? ()	
• Is a core noticeable? No	
• Is the core compact or stellar? —	
• Can any detail be seen between the core ar	and the outer envelope of the object?
• Are the edges of the outer envelope sharp e	or diffuse?
• Can any detail or mottling be seen in the o	outer envelope (bright or dark patches or lanes)?
	the same field of view? If so, what? 3, 7,3
222 there any other deep-sky objects in the	the same neid of view; It so, what: 33-73
Description thought it Soran	me I moved it before -
MO WOW JON	~
(1999 Cole & Pratt)	

PRELIEF PRESENTATION OF THE PROPERTY OF THE PR

OBSERVATION LOG

1	MAME	DATE	INSTRUMENT	SEERIG	OBJECT NAME	
1	B. YOM	5/3/8	XT-n"	エー	MGC 3649	
1	SITE	THE	POWER	TRANSPARENCY	CONSTELLATION	
	GREDNEAP ST. PARU	11.40pm	フイメ	II (DEW)	Leo	
	DESCRIPTION					
	Seenwell, not bright. One to west smillar, any ensier to					
	Sel. Newson,	201 dm	ensions, poss	hopival		
-						
			·			

AZ

NAME	DATE	INSTRUMENT	SEEDIG	OBJECT NAME		
Eq	4	u	cl	NGC 3646		
SITE	TIME	POWER	TRANSPARENCY	CONSTELLATION		
¢(1:45pm	((C(les		
	/ DESCRIPTION					
The "one to vest" was the torget! Similar sight, a						
lithe bigger.	& brighte	r than 7	s broshe	r. Avherps		

HZ

		· ·		
NAME { \	DATE \\	INSTRUMENT	SEEING	OBJECT NAME NGC 3107
SITE (,	11:50pm	POWER ((Transparency ((CONSTELLATION Leo
Not 8m Star. dmglow, no de	Wouldn't	bare seen	in it not example	- known, on som.

NAMB	DATE	PISTRUMENT	SECONG	OBJECT NAME
SETE	TIME	POWER	TRANSPARENCY	CONSTILLATION
		DESCRIPTION		
·				
•				

H2

. April	
Object ID: NFC 3145	
Const.: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Observer 3 You
RA: Dec.:	Date 4/26/9
Mag: Size:	Time 2:30
	Location MCC
	Seeing Transparency
	Instrument XT/2
	Size 2
	Eyepiece
	Field of view Power
• Can this galaxy be seen with direct vision, or	is averted vision required?
• What is the overall shape? (and	
• Is a core noticeable? ~~	
Is the core compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the object? \(\subseteq_{\sigma} \)
• Are the edges of the outer envelope sharp or	diffuse
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	ame field of view? If so, what?
	ame field of view? If so, what? No, 500.14 500.1
Description	
(1999 Cole & Prait)	

H2

Object ID:	
Const.: Sex	Observer B Yound
RA: Dec.:	Observer 5 40-006 Date 4/26/2
Mag: Size:	Time 12:10
	Location MCC
	Seeing Transparency
	Instrument XT-12
	Size 7
	Eyepiece 10
	Field of view Power 150
 Can this galaxy be seen with direct vision, of What is the overall shape? 2:1 (1) (2) Is a core noticeable? No Is the core compact or stellar? Can any detail be seen between the core and Are the edges of the outer envelope sharp or Can any detail or mottling be seen in the out 	the outer envelope of the object?
Are there any other deep-sky objects in the s	rome field of view? If so what?
may were most and animen in the	We will be view. It so, what:
Description	
FIRMS CL. L. D. LID	

Object ID: NGC 3158	$H \sim 10^{-1}$
Const.:	Observer B. YOUNG
RA: Dec.:	Date 3/14/09
Mag: Size:	Time 9:30 COT
	Location (MCC
	Seeing Transparency T
	Instrument XT-12
	Size 2
٠,	Eyepiece 2×42
	Field of viewPowerPower
• Can this galaxy be seen with direct vision,	r is averted vision required?
• What is the overall shape?	
• Is a core noticeable?	
"Vo	
• Is the core compact or stellar? —	
• Can any detail be seen between the core and	I the outer envelope of the object? \sim
• Are the edges of the outer envelope sharp or	r diffuse?
	ter envelope (bright or dark patches or lanes)? $ $
• Are there any other deep-sky objects in the	same field of view? If so, what? Another very
Description	*
(1999 Cole & Prait)	

The American Association of Amateur Astronomers

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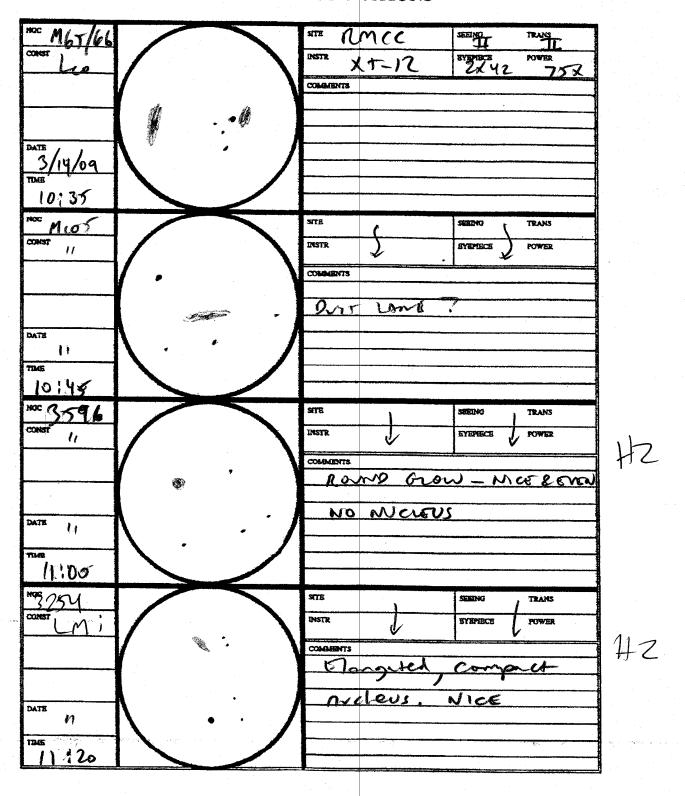
Observing Log

Observer:	B your		Location:	proms	Macy	Page:
INDEX	Period - It	nstrument		N	lotes	
Object	Date > 128/6	Time 101 30	sm but b	maht.	elliptral	right
NGe	Power 36A	Seeing	Sof fo			
3173	Type Instrument	n				
Object	Date	Time	Alitabe	2 donne	- than ?	3193
NGC	Power	Seeing	fcN, c~	war	low 11.7	the smaller
3190	Type Instrument)		,	
Object	Date	Time	Seen, Mr	ch sm,	nich dinne	er than
	Power	Seeing			s D w/2	
3185	Type Instrument		No rue,			
Object	Date	Time			sellar,	
Noc	Power	Seeing	Nice fld	No	dernil sm	a li
3177	Type Instrument		÷			
Object	Date	Time	Nice FIL	IOn D.	farrlye	Ny DV
NGC	Power	Seeing	Me All	1 looks	ma, not m	wh derail
3162	Type Instrument		i '			
Object	Date	Time /0 ! 55	forty see	n 57,	d (-hre	Now. Not
NGC	Power	Seeing	not leto	ily he	or 4st	
3862	Type Instrument			, ·		
Object	Date	Time	Doen't St small ellip	and ove	- real well	-LA seen
Noe	Power 362	Seeing	small ello	CN. M	* ASTER BA	of 4 fs
3968	Type Instrument			<u> </u>	<u>'</u>	
Object	Date	Time	Notard to m	31, new	- ALVIV, n	ther F
Noc	Power	Seeing	It is seen,	burno	• (1)	
4037	Type Instrument			,	.	
Object	Date	Time 1:20	Found eas	1/7 -e	longately f	3 neartof
NGC	Power	Seeing	noce boah	- 5N		
4124	Type Instrument					
Object	Date	Time	Very li	m next	to for sv	rull, SN
NE	Power	Seeing	8) 25 cm)	. ,	<i>y</i>
4067	Type Instrument					

H2

Object ID:	NGC 3225	_		, , –
Const.:	uma	Observer	B. Your	
RA:	Dec.:	Date	4/15/9	
Mag:	Size:	•	12:30	
		Location	RMCC	
		Seeing	Transparency	正
/ .	•	Instrument_	XT-12	
	9	Size	12	
	•	Eyepiece	2×42	
1	* *	Field of view	Power_	750
	•			
Is a core no Is the core	e overall shape? Now pticeable? No compact or stellar? — etail be seen between the		lope of the object? ~	b
• Are the edg	es of the outer envelope	sharp or diffuse?	•	
• Can any de	tail or mottling be seen	in the outer envelope (b	right or dark patches or	·lanes)? k b
		ts in the same field of vic		V
Description				
tono ou .			4	
1999 Cole & Pratt)				

HERSCHEL OBSERVATIONS



HERSCHEL OBSERVATIONS

NOC 3287 CONST Leo		SEEING TRANSITE SYSPIECE POWER 2X42 7XX Grow, Hard	
3/14/09 TEME 10:00 c95 NOC 3301 CORNET	STER AMCC	SEEDING TRANS SYSTEMECS POWER SYSTEMECS POWER	H2
DATE 3/14/09	COMMENTS ET angula	Compact	
10:15 COT NOC 3271 CONST 4	SITE II INSTR II COMMENTS SMM JON	SEEING 11 TRANS 11 EYEPIECE POWER 11 702	: Cees
THE 10125 COT NOC 3659	nucleus / no	SEEING ; TRANS,	7K50 Friler
DATE //	DETAIL	STEN, NO	#2
TIME			

141

Observing Log Object type: Galaxy

Object ID: 16-6-3319	
Const.:	Observer B 9
RA: Dec.:	Date 5/20/7
Mag: Size:	Time 12110 Am COT
	Location MCC
	Seeing II Transparency #
	Instrument Xt-12
	Size 12
	Eyepiece 2
	Field of view Power 60x
•	
 Can this galaxy be seen with direct vision, o 	er is averted vision required?
• What is the overall shape? Now.	
• Is a core noticeable? B~? - Yes	Vorthel mercions
• Is the core compact or stellar?	
Can any detail be seen between the core and	
Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)? 🥠
• Are there any other deep-sky objects in the	same field of view? If so, what? ${\cal N}$,
Description Famt halo -1	suspect bar NE-W
(1999 Cole & Pratt)	

HERSCHEL OBSERVATIONS

MOC 3428 9	SITE MCC SEEING I TRANS-	
Leo /	INSTR XT-12 SYSPISCE POWISS COMMINTS	
	WHILE IN AREA	
	MOE SMALL GLOWS	
3/14/09		
9:30		
NOC 3338	SITE 4 SEEDING TRANS	
CONST	INSTR (1 SYRPRICE) POWER 7/10	
<u>.</u>	Sighterellar AVE (notohowy)	42
DATE		
TIMG 9: 45		
NOC 3666	SITE SEEING TRANS,	
CONST /,	INSTR SYEPHECE POWER 7 X X	
	COMMENTS No NUC	
• • • •		#2
DATE		
The I of A A		. *
MOC BOOK	STE SEEING TRANS	
CONST	INSTR SYEMESE POWER	
· .	сомняять	H2
	stati ram glow - nint	
DATE 3/14/09	of stellar nudeus	
TIME		en e
10:20		

Observing Log

Object type: Galaxy Object ID: NGC 3359 11 Ma B. 70 Mb * Const.: Observer Dec.: Date Mag: _____ Size: ____ Time 11100 Location CM CC Seeing Transparency T Instrument XT-12 Size Eyepiece 2X42

Field of view Power 75 Can this galaxy be seen with direct vision, or in averted vision required? What is the overall shape? Lops Led Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core and the outer envelope of the object? Some making 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? No. , Are where Description

(1999 Cole & Pratt)

H2

Object ID: NGC 3424/3430	
Const.:	Observer B. Youh
RA: Dec.:	Date 3/14/09
Mag: Size:	Time 9145 cor
	Location MCC
	Seeing T Transparency T
•	Instrument X+-n
	Size 12
	Eyepiece 2x42
	Field of view Power 75 x
3434 3430	
• Can this galaxy be seen with direct-vision, or	is averted vision required?
• What is the overall shape? 30 Com	24 chip
• 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 o	liffuse?
Can any detail or mottling be seen in the outer	er cuvelope (bright or dark patches or lanes)? \mathcal{N}_{o}
	ame field of view? If so, what? Each other
and there any other deep-sky objects in the se	time mend of view: 11 so, what: Each other
Description	
(1999 Cole & Prati)	

. (<i>l</i>) =
Object ID: NG-C 3507	
Const.: Leo	Observer B. Young
RA: Dec.:	Date C/30/8
Mag: Size:	Time 10:45 CDT
	Location A
	Seeing II Transparency I -
	Instrument XT - 17
	Size 12
•	Eyepiece 42 x 2
	Field of view Power
• Can this galaxy be seen with direct vision or	is averted vision required?
• What is the overall shape? P. f.	
• Is a core noticeable? Yes-or 3 St	~?
• 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 outo	er envelope (bright or dark patches or lanes)? 🌭
Are there any other deep-sky objects in the sa	
	· · · · · · · · · · · · · · · · · · ·
Description Description	fil frezz
	•
(1999 Cole & Denti)	

Object ID: Nbc 3611	
Const.: Crt	Observer B YOWK
RA: Dec.:	
Mag: Size:	
	Location MCC
	Seeing Transparency T
	Instrument DoC
• • • • • • • • • • • • • • • • • • •	Size 12
	Eyepiece
	Field of view Power Power
. /	
	*
• Can this galaxy be seen with direct visi	ion, or is averted vision required?
• What is the overall shape? Very	elenated
• Is a core noticeable?	
, °	
Is the core compact or stellar?	
• Can any detail be seen between the cor	re and the outer envelope of the object? Some had
• Are the edges of the outer envelope/sha	arp or diffuse?
• Can any detail or mottling he seen in the	he outer envelope (bright or dark patches or lanes)?
 Are there any other deep-sky objects in 	n the same field of view? If so, what?
Description	see in 36 x
	312
(1999 Cole & Pratt)	

H2

Object ID: NGC 376		11 6
Const.: VMa	Observer	B. Your
RA: Dec.:	Date	3/31/9
Mag: Size:	Time	11:30
	Location	RMCC
	Seeing I	Transparency I
	Instrument	XT-12
.	Size	
		2x42
		Power
 Can this galaxy be seen with direct vision. What is the overall shape? Now. Is a core noticeable? / Is the core (ompactor stellar? Can any detail be seen between the core a Are the edges of the outer envelope sharp 	nd the outer envelop	
• Can any detail or mottling be seen in the	outer envelope (brigh	t or dark patches or lanes)?
Are there any other deep-sky objects in the	e same field of view?	If so, what?
Description		lovely lindel
(1999 Cole & Pratt)		

PIREL-PIERREPERPRP

Object ID: NG-C 3524	HZ
Const.:	Observer B. Youk
RA: Dec.:	Date 3/15/09
Mag: Size:	Time 10:30 COT
	Location
	Seeing Transparency 1
	Instrument yT-12
• 4	Size 12
*	Eyepiece 2x42
	Field of view Power
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape?	Secretary Secret
. T	
Is the core compact or stellar?	
• Can any detail be seen between the core an	d the outer envelope of the object? No
• Are the edges of the outer envelope sharp o	r diffuse?
	uter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	same field of view? If so, what?
Description	
(1999 Cole & Prait)	

Object ID: Noc 3547		•	HZ
Const.:	Observer	B. Your	
RA: Dec.:	Date	3/15/09	
Mag: Size:	Time	10115 COT	
	Location	RMCC	
	Seeing	Transparency _	T
	Instrument	XT-12	·
• ý	Size	12	
	Еуеріесе	2x42	
		Power	752
		Formation and administration of the second s	
• Can this galaxy be seen with direct vision,	or is averted vision	required?	
• What is the overall shape? 51, elong	ated		
• Is a core noticeable?			
• Is the core compact or stellar?			
• Can any detail be seen between the core an	d the outer envelope	e of the object? No	
• Are the edges of the outer envelope sharp of	diffuse?	•	
• Can any detail or mottling be seen in the or	ater envelope (brigh	t or dark patches or	lanes)?
Are there any other deep-sky objects in the			
Description			
			,
(1999 Cole & Pratt)			

1		, ,	
Object: NGC 3583 3577	Date:	4/15/9	UTC/civil)
Right Ascension:	Time:	12:00	UTC/std/ds
Declination:	Seeing	: Transparency:	平
Constellation: UMa		Steadiness:	亚
Magnitude:	Tempe	rature:	
Size:	Telesc		
		ce/Magnification:	10mm/150x
	Filters		
Notes:			•
3583 oval glow w	/stell.	ar nucleus	& some grammer
3577 try famt	glow		
Finder Chart:	Field Size:	6°,4	
		\	. /

Observer: B. 40M-

Object ID: NFC 4220 (+ 4218) Const.: CVo B. YOM 3/25/9 Observer RA: _____ Dec.: ____ Date 10:30 COT Mag: _____ Size: ____ Time RMCC 4212 Location Seeing Transparency T Instrument XT-12 Size Eyepiece 2x42 Field of view _____ Power ___ 751 4218 Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? O Is a core noticeable? 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 cuvelope (bright or dark patches or lanes)? No Are there any other deep-sky objects in the same field of view? If so, what? 4218 newby Description

(1999 Cole & Pratt)

Obj	ect type: Galaxy
Object ID: NLC 4244	<u></u>
Const.:CoV	Observer Byown
RA: Dec.:	Date 6/7/8
Mag: Size:	Time 1:50
	Location MCC
	Seeing Transparency T
. \	Instrument XT 12
	Size /2
	Eyepiece 2x42
	Field of view Power
	by use
Can this galaxy be seen with direct vision	to essent
• What is the overall shape? Very e	long 16:1
• 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?
Are the edges of the outer envelope sharp	
 Can any detail or motiling be seen in the 	e 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?
Description Van Aze	
(1999 Cole & Prait)	

HZ

Object ID: NAC 4250	
Const.: Da	Observer Biyont
RA: Dec.:	Date 7/6/8
Mag: Size:	Time 1150
	Location MCc
	Seeing II - Transparency II
	Instrument XT-12
. \	Size 12
	Eyepiece \
	Field of view Power
第7. 486	
• Can this galaxy be seen with direct vision, or	is averted vision required?
• What is the overall shape?	
• Is a core noticeable? Yes	
• Is the cove compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the object? Some hands
• Are the edges of the outer envelope sharp or	diffuse)
Can any detail or mottling be seen in the out.	er envelope (bright or dark patches or lanes)?
_	^
Are there any other deep-sky objects in the sales.	ame field of view? If so, what? \sum_o
Description	
Mana Cara and an analysis of the same and an analysis of t	

H2

Object ID: NFC 4256	
Const.:	Observer Bi Your
RA: Dec.:	Date 7/6/8
Mag: Size:	Time 1145
	Location MCC
	Seeing Transparency T
	Instrument XT-12
1	Size 12
	Eyepiece 2x42
	Field of view Power
Can this galaxy be seen with direct vision, o	r is sverted vision required?
-	a avertee vision required:
• What is the overall shape? 2x1 clary	
• Is a core noticeable? slightly	
Is the core compact or stellar?	
Can any detail be seen between the core and	I the outer envelope of the object? A home of the
• Are the edges of the outer envelope sharp or	
Are the enges of the outer envelope snarp of	THE BSC:
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	same field of view? If so, what?
Description	
(1999 Cole & Pratt)	

	HI
Object	11
Magnitude Seeing: Transparency	<u> </u>
Concentration Class Steadiness Location Telescope Eyepiece / Magnit	II- -12 ication 42/324
Notes: Great field!	
1233 (128)	
יות מיני	
Object NGC U339 Date Constellation Time Magnitude Seeing: Transparency Concentration Class Steadiness Location Telescope	122/6 15 COT TE- (T-12 / Magnification 42/37x
Notes: Not too Am,	/ Magnification
rond evenglen	
•	

HERSCHEL OBSERVATIONS

	COMMENTS	terengla	4	POWER 75	H2
		1.5			H2
					1.
4313	the o	thers			H2
	St. A	re. jeren	cond	glew	
	4313	INSTR COMMENTS TO AND NTE INSTR COMMENTS W SITE INSTR COMMENTS LANG WAN SITE INSTR COMMENTS WAN COMMENTS WAN COMMENTS FINA COMMENTS TO AND T	INSTR XT-12 COMMENTS (Layred even glo NVCleus INSTR (I COMMENTS (I) STE (I) STE (I) STE (I) STE (I) COMMENTS (I) COMMENTS (I) COMMENTS (I) COMMENTS (I) STE (I) STE (I) (INSTR (I) COMMENTS (I) (INSTR (INSTR (I) (INSTR (I) (INSTR (I) (INSTR (INSTR (INSTR (INSTR (INSTR (INSTR	ENSTR XT-12 EXERNO COMMENTS The second even glow of the second	DISTR XT-12 EYENGER NOWER COMMINISTE II SEENO II TRANS DISTR II SEENO II TRANS DISTR II SEENO II TRANS DISTR II SEENO ITRANS NOTE INSTR STEEN SEENO TRANS NOTE INSTR STEEN SEENO TRANS NOTE INSTR V294 elong, even; 4299 aval 4313 C1. elong, no nuc. WTE SEENO TRANS HOMER COMMINISTE INSTR V371 GIFTELM a fact recon the athers H2313 C1. elong, no nuc. STEENEED TRANS DISTR SEENO TRANS DISTR SEENO TRANS DISTR TENEED TRANS DISTR SEENO TRANS DISTR SEENO TRANS DISTR SEENO TRANS DISTR COMMINISTE INSTR DISTR SEENO TRANS DISTR COMMINISTE INSTR DISTR SEENO TRANS DISTR SEENO TRANS DISTR SEENO TRANS DISTR COMMINISTE INSTR DISTR SEENO TRANS DISTR SEENO TRANS DISTR COMMINISTE INSTR DISTR SEENO TRANS DISTR SEENO TRANS DISTR COMMINISTE INSTRICT DISTR COMMINISTE INSTRICT DISTR SEENO TRANS DISTR COMMINISTE INSTRICT DISTR COMMINISTE DISTR COMM

Observing Log

H2(4290)

1			
Object: NGC 4290/4284	Date:	4/15/9	UTC/civil)
Right Ascension:	Time:	1:45	UTC/std/ds)
Declination:	Seeing:	Transparency: II	
Constellation: UMA		Steadiness:	
Magnitude:	Tempe	rature:	
Size:	Telesco		2
		ce/Magnification:	10mm/150x
	Filters:		
Notes:			
4290 elongated, even gl	ا رسه	o nucleus.	
4284 much smeller &	fam	er, no desn	:\ls
Finder Chart: Fi	ield Size:	O°.	4
		/	
		1	4E)
		, NO.	*.
		*	**
	1		• /
		\·•	• /
	محمد	7	•/
	"MY	0"\	

Observer: B. Yould

Const.:	Observer B. 70mb
· .	
RA: Dec.:	Date 4/22/9
Mag: Size:	Time 2:15 Am
l rep stance	Location CMCE
	Seeing I - Transparency I
	Instrument XT-12
	Size 12
	Eyepiece 2×42
	Field of view Power
-4319.	
· Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? 4291:	2020 4319; EZONG,
• Is a core noticeable? Some what (
• Is the core compact or stellar?	
	the outer envelope of the object? Some mothing
Are the edges of the outer envelope sharp or	fur 47) 0n 4319
Can any detail or motting de seen in the one	er envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	ame field of view? If so, what? Each ozhu
	Gell W/ D& red Sm
Description	Field W/ D& red Sm
(1999 Cole & Pratt)	0. –
	67

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Type Instrument

The American Association of Amateur Astronomers Observing Log 4298

www.AstroMax.com ADAMS RANCH Page: Your Observer: Location: **INDEX** Period - Instrument OF PANES, SIN Object 111,40 NGC Type Instrument XT-12 Seeing NGC Power Type Instrument 4302 Object Power Seeing MY Type Instrument Time | 2:00 Object m57 Type Instrument Time Object Power Seeing M52 Type Instrument Time Object Power Seeing , Type instrument Object Power Seeing Type Instrument Date Time Object Power Seeing Type Instrument Object Time Seeing Power Type Instrument Time Object Seeing

Object ID: NGC 4298/4302	
Const.:	ObserverB. Your
RA: Dec.:	Date 4/5/8
Mag: Size:	Time 12:40 COY
	Location MCC
	Seeing T Transparency T
	Instrument XT-12
	Size 12
(9)	Eyepiece 42+2X
	Field of viewPower
• Can this galaxy be seen with direct vision, or	is averted vision required?
What is the overall shape? Rock	
• Is a core noticeable? Only 4298	
• 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?
• Can any detail or mottling be seen in the oute	er envelope (bright or dark patches or lanes)? \nearrow
Are there any other deep-sky objects in the sa	•
7 Voos 1 11-1 1	
Description Very difficult to	
- Not see I dod.	some hot of space
Jetween them	
(1999 Cole & Pratt)	
	70'

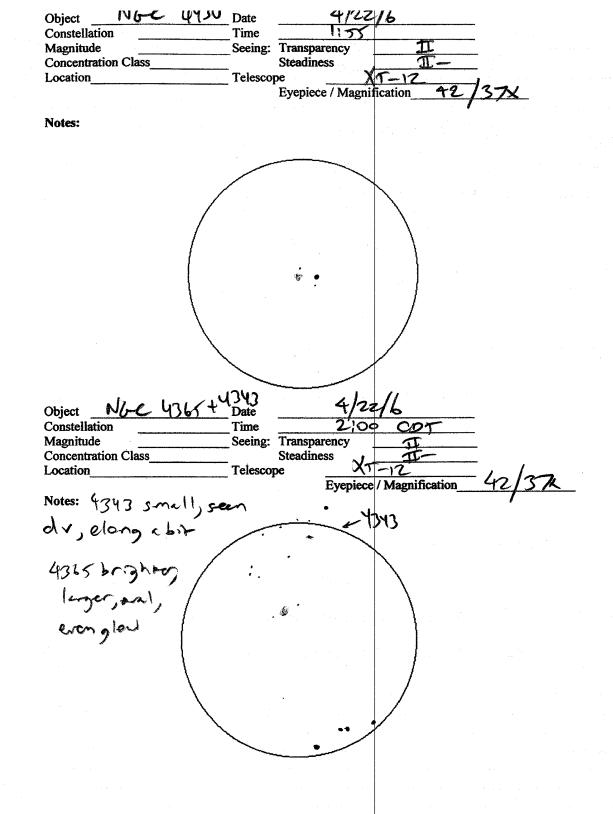
WZ

Object ID:	NGC 401.	o				
Const.:			Observer	07	1 mer	
RA:	Dec.:	1	Date	6/7	18	· · · · · · · · · · · · · · · · · · ·
Mag:	Size:		Time	1:20	3	
		I	ocation_	RM	CC	
		S	ceing	II) T	ransparency	T T-
			nstrament		-	**************************************
		s	ize	12		
		15	yepiece	2x	42	
	,				Power_	72
					· · · · · · · · · · · · · · · · · · ·	
Is a core notic	verall shape? (Co ceable? (Vo mpact or stellar?					
Can any detai	il be seen between :	the core and the	outer envek	pe of the	object? Mo	
	of the outer envelo	-				
	l or mottling be see					lanes)? (\
Are there any	other deep-sky obj	jects in the same	field of view	r? If so, w	vhat?	send
Description	4314	4274	78/	ne of 83/86	Seen on	way
				·		
999 Cele & Prait)						

Object ID: <u>NG-C 4312</u>	
Const.:	ObserverByont
RA: Dec.:	Date 4/5/8
Mag: Size:	Time 12145
	Location MCC
	Seeing Transparency T
	Instrument (7-12
◎••	Size
	Eyepiece 42+2x
	Field of viewPower
Mioo	
 Can this galaxy be seen with direct vision, or What is the overall shape?	
· Are the edges of the outer envelope sharp or	diffuse?)
Can any detail or mottling be seen in the out.	er envelope (bright or dark patches or lanes)? 🏽 💩
	•
Are there any other deep-sky objects in the sa	ame field of view? If so, what? M 100
Description	
(1999 Cole & Pratt)	
	1

Object ID: NFC 4336	H2
Const.:	Observer 6, Your
RA: Dec.;	Date 7/6/8
Mag: Size:	Time 12:08.005
	Location RMCe
	Seeing Transparency I
•	Instrument X+-12
	Size 12
	Eyepiece 2x42
	Field of view Power 75
Can this galaxy be seen with direct vision, or	or is averted vision required?
• What is the overall shape? ZXI elm,	
• Is a core noticeable?	
• Is the core compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the object?
Andrew Stranger	
• Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the sa	ter envelope (bright or dark patches or lanes)? \\ -e^ same field of view? If so, what? \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
Description	
(1999 Cole & Prait)	

R	A: Dec.:	Date 4/5/8
	ag: Size:	Time 2150 cor
\)	340	Location MCC
•		Seeing I Transparency II-
		Instrument XT12
		Size 12
		Eyepiece 42+2X
		Field of view Power
	350	
•	Can this galaxy be seen with direct vision, or	is averted vision required?
• .	What is the overall shape? $40 = 0$	50= Bar
•	Is a core noticeable? No box	
•	Is the core compact or stellar? No, 5	
•	Can any detail be seen between the core and	the outer envelope of the object?
•	Are the edges of the outer envelope sharp or o	liffuse?
•	Can any detail or mottling be seen in the oute	er envelope (bright or dark patches or lanes)? 🏑 💍
	Are there any other deep-sky objects in the sa	'
Des	scription	
(1999	Cole & Prait)	



Object ID: 148/	
Const.:	Observer B Y
RA: Dec.:	Date4/21/7
Mag: Size:	Time 12:20
	Location MCC
	Seeing Transparency T-
	Instrument XT
	Size 12
	Eyepiece O
	Field of view Power 1502
	Die Control of the Co
• Can this galaxy be seen with direct v	ision, or is averted vision required?
• What is the overall shape? I com	L
• Is a core noticeable? No	
• Is the core compact or stellar?	
•	
• Can any detail be seen between the c	core and the outer envelope of the object? Same notale
• Are the edges of the outer envelope s	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	s in the same field of view? If so, what?
The second secon	03 115117 22 50, 112 1151 N ₂
Description	
(1999 Cole & Pratt)	
	719

type: Galaxy

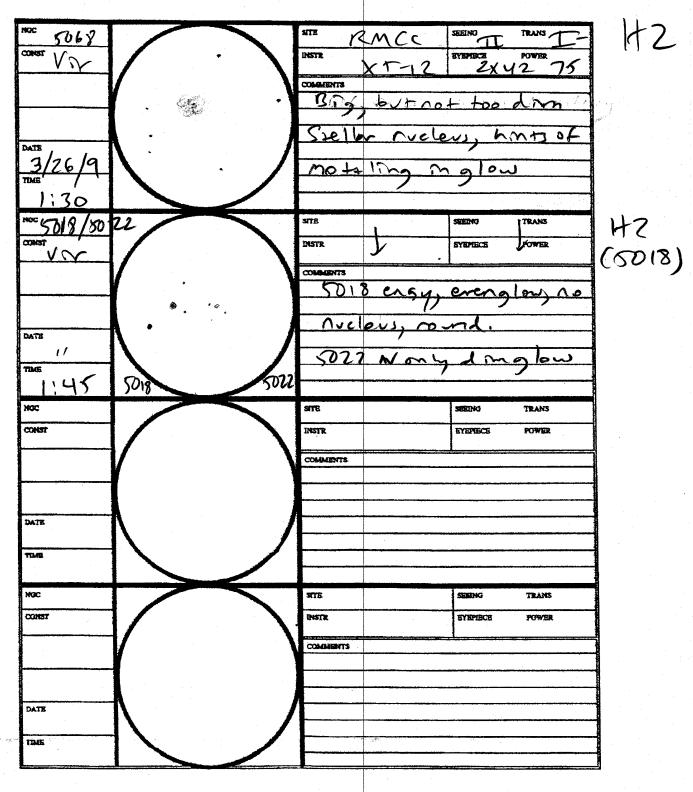
Object ID: NGC 4999		PI .	
Const.: Viv	Observer	B. Y.	
RA: Dec.:	Date	4/1/9	
Mag: Size:	Time	_110	
	Location	RMCC	
	Seeing II	Transparency	II.
	Instrument	XT-12	
	Size	12	
***	Еуеріесе	2x42	
	Field of view	Power	<u> </u>
	·		
	me		
• Can this galaxy be seen with direct vision	n, or is averted vision	required?	
• What is the overall shape?			
• Is a core noticeable? Bredy			
Is the core compact or stellar?			
• Can any detail be seen between the core		e of the object? No	
• Are the edges of the outer envelope sharp	p or diffuse?		
• Can any detail or mottling be seen in the	outer envelope (brigi	nt or dark patches or lan	es)? No
Are there any other deep-sky objects in t	the same field of view?	If so, what? D.A.	
		203 H MA O	
Description			
(1999 Cole & Prait)			

Observing Log

Objec	t type: Galaxy
Object ID: NG-C 5012	m2
Const.:	Observer Bi Your
RA: Dec.:	Date7/1/8
Mag: Size:	Time 2:30 COT
	Location Alans Ranch
	Seeing Transparency T-
	Instrument XT-12
	Size12
	Eyepiece 2x 42
\ · · · /	Field of view Power
	Aure
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape? Nout	N/bnr?
• Is a core noticeable? Yes	
• Is the core compact or stellar?	
• Can any detail be seen between the core ar	nd the outer envelope of the object? Yes, 10-les 11
• Are the edges of the outer envelope sharp	or diffuse?
• Can any detail or mottling be seen in the o	uter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	e same field of view? If so, what?
ome many cancer deep may objects in the	e same field of view? If so, what?
Description	
(1999 Cole & Pratt)	

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HERSCHEL OBSERVATIONS



Object ID: NGC 5020	1/
Const.: VY	Observer B. YOMG
RA: Dec.:	Date 4/1/9
Mag: Size:	Time 12:10
	Location CM(C
	Seeing Transparency I
	Instrument $\times \uparrow -12$
	Size 12
	Eyepiece 2x42
	Field of view Power
Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? (am)	
• Is a core noticeable?	
 Is the core compact or stellar? 	
Can any detail be seen between the core and	d the outer envelope of the object? Some how
Are the edges of the outer envelope sharp of	
 Can any detail or mottling be seen in the out 	ter envelope (bright or dark patches or lanes)?
 Are there any other deep-sky objects in the 	same field of view? If so, what? \mathcal{N}_o
Description	
(1999 Cole & Pratt)	
	243

Object	type: Galaxy
Object ID: NGC 5023	72
Const.:	Observer R. YowL
RA: Dec.:	Date 6/30/8
Mag: Size:	Time 1:15 cor
	Location Alux Ranch
	Seeing I Transparency I-
	Instrument XT-12
· ,	Size 12
	Eyepiece 2x 42
\·	Field of view Power
 Can this galaxy be seen with direct vision of the work of the overall shape? Needle Is a core noticeable? No Is the core compact or stellar? Can any detail be seen between the core and the area of the outer envelope sharp or the can any detail or mottling be seen in the outer the core and the can any detail or mottling be seen in the outer the can other deep-sky objects in the second the can be seen in the can	the outer envelope of the object? diffuse? ter envelope (bright or dark patches or lanes)?
(1999 Cole & Pratt)	

Object ID: NGC 5037/5044	
	Observer
RA: Dec.:	Date 5/20/7
Mag: Size:	Time 1100 COT
L5837	Location (MCC
	Seeing Transparency T
	Instrument XT-12
•	Size 12
	Eyepiece /O
	Field of viewPower
•	
65044	
• Can this galaxy be seen with direct vision, o	
 What is the overall shape? For / Non. Is a core noticeable? No/ ye) 	1
• Is a core noticeable? ~/	1
Is the core compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the object? M_{\circ}
• Are the edges of the outer envelope sharp or	diffuse?
Cau any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	same field of view? If so, what? and oh
Description	
(1999 Cole & Pratt)	

Observing Log Object type: Globular Cluster

	Object typ	e: Globular Clus	ster	11-3
Object ID: NGC	. 7053			HZ.
Const.:		Observer	· Yang	
RA: D	ec.:	Date	7/1/8	
Mag: Siz	ze:	Time 12	45 C05	
		Location	Hans March	
		Seeing I	Transparency	<u></u>
	\	Instrument	XT-17	
		Size	12	
- ministration	'	Eyepiece	2×42	
1	/	Field of view	Power <u>75</u>	<u>x</u>
· (
,24 ,24				. V*
				``````````````````````````````````````
• Can this cluster be se	een with direct vision, (	or is averted vision	required?	· .
			<b>1</b>	
	bright, compact or no		7	
	er highly or loosely con			
• Is any part of the clu	ster resolved into stars	? Pace only		
• Is any mottling visible	_	/		•
• Can the edges be res				,
• Are there any other	deep-sky objects in the	same field of view?	H so, what? MS3 re	لهريم
Description	1502!		was	promis
(1999 Cole & Pratt)				

DATE 5/30/3TIME 10:45 CSTCD CLARITY I	) III IVV <b>SEEING</b> (1) III IVV
INSTRUMENT ETX-125 10x50 EYE	POWER 10X (73X) 153X 475X
OBJECT NG-C 5053 LOCA	TION RMCC HOME
Very Small, Im glow - 100	in the an elly galaxy
br no derall - AV help	

Object ID: NGC 5036	
Const.:	Observer 0, Your
RA: Dec.:	Date 7/6/8
Mag: Size:	Time 12:50
	Location MCC
	Seeing Transparency T
	Instrument XT-12
	Size 12
. • • • • • • • • • • • • • • • • • • •	Eyepiece /O
	Field of view Power 56
• Can this galaxy be seen with direct vision, or	r is averted vision required?
What is the overall shape?	
• Is a core noticeable? No of . > 's a	Ul 1 see (?)
Is the core compact or stellar?	
	^ /
• Can any detail be seen between the core and	the outer envelope of the object? Vo
• Are the edges of the outer envelope sharp or	diffuse?
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)? 🍊
Are there any other deen-sky objects in the s	same field of view? If so, what? $N_0 \sim 29$
<b>Description</b>	
(1999 Cole & Prait)	

Object ID: Noc 5001	
Const.:	Observer B York
RA: Dec.:	Date 4/26/8
Mag: Size:	Time // ioo
	Location MCc
	Seeing Transparency T
	Instrument XT 2
	Size 12
	Eyepiece
	Field of view Power 130
• Can this galaxy be seen with direct vision, o	or is averted vision required?
What is the overall shape?	
• Is a core noticeable?	
(e)	
Is the core compact or stellar?	
• Can any detail be seen between the core and	d the outer envelope of the object?
Are the edges of the outer envelope sharp or	diffuse
Can any detail or mottling he seen in the on	ter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	same field of view? If so, what? No
<b>Description</b>	
CIOO Cata & Barra	

H2

Object ID: NGC 5077 /5079	
Const.:	Observer By
RA: Dec.:	Date 5/2017
Mag: Size:	Time 12140 COT
	Location RMCC
	Seeing II Transparency II
	Instrument XT-72
	Size \\2
	Eyepiece 25
	Field of view Power box
• Can this galaxy be seen with direct vision, or	vse.
	(5079)
• What is the overall shape? Now, and	
• Is a core noticeable? m 7077 only	
• Is the core compact or stellar?	
Can any detail be seen between the core and	the outer cavelone of the object? A /
• Are the edges of the outer envelope sharp or	
	નું કે વ્યવસાય કરવા છે. આ પ્રાથમિક સ્થાપના કરવા છે. આ પ્રાથમિક સ્થાપના સ્થાપના સ્થાપના સ્થાપના સ્થાપના સ્થાપના
	er envelope (bright or dark patches or lanes)? 🦳
• Are there any other deep-sky objects in the s	same field of view? If so, what? and other
Description	
(1999 Cole & Pratt)	

Object ID: Nbc 5078	H2
Const.:	Observer B Yout
RA: Dec.:	Date 4/26/3
Mag: Size:	Time/ 1/3
	Location MCC
	Seeing Transparency T
	Instrument XT-7
	Size 12
	Eyepiece /O
•	Field of view Power/
Can this calous be assessed to the	
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape? B.	
• Is a core noticeable?	
• Is the core compact or stellar?	
Can any detail be seen between the core an	d the outer envelope of the object?
Are the edges of the outer envelope sharp or	
	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	same field of view? If so, what?
Description	
<b>Description</b>	
(1999 Cole & Prait)	
	00
	251

## Observing Log

	(	Object type: Galaxy	11-7
Object ID:	HC5/03		H Z
Const.:		Observer B. Yowk	
RA:	Dec.:		
Mag:	Size:		
		Location Alms	inch
		Seeing Transparency	T-
		Instrument XT-12	
- [		Size 12	
	• •	Eyepiece 10 mm	
<b>\</b> '		Field of view Power	50X
<ul> <li>What is the overal</li> <li>Is a core noticeal</li> <li>Is the core compa</li> <li>Can any detail be</li> <li>Are the edges of the</li> <li>Can any detail or</li> </ul>	all shape? (), olde? (), olde? (), olde? (), older? (), older? (), older envelope shape mottling be seen in	the outer envelope (bright or dark patches or	
Description			

(1999 Cole & Pratt)

Object	type: Galaxy		110
Object ID: NGC 5129			HC
Const.:	Observer	B, Y.	
RA: Dec.:	Date	4/119	
Mag: Size:	Time	12:30	
	Location	RMCC	
	Seeing	Transparency	T
	Instrument	XT-12	
<b>©</b> •	Size	_	
<i>a</i> ,	Еуеріссе	2x42	
	Field of view	Power	75
57325737			
• Can this galaxy be seen with direct vision, o	r is averted vision r	equired?	
• What is the overall shape? /			
• Is a core noticeable? Yes			
Is the core compact or stella?			
-			
<ul> <li>Can any detail be seen between the core and</li> </ul>	the outer envelope	of the object?	
Are the edges of the outer envelope sharp or	diffuse?		,
• Can any detail or mottling be seen in the ou	ter envelope (bright	or dark patches or	lanes)?
• Are there any other deep-sky objects in the	same field of view?	∼₀ If so, what?	
		Hon t	
<b>Description</b>		,	
	MARCH		
(1999 Cole & Prait)			

Object ID: NGC 5204  Const.: VMA	HZ
Const.:	Observer 0. Your
RA: Dec.:	
Mag: Size:	Time 11:00
	Location Comp Gameno
	Seeing Transparency T-
	Instrument X 1-12
	Size 12
€	Eyepiece 2×42
	Field of view Power
\ ' \ /	
	(re
• Can this galaxy be seen with direct vis	sion, or is averted vision required?
• What is the overall shape? Nonk	
■ Is a core noticeable? √ ₀	
• Is the core compact or stellar?	
• Can any detail be seen between the co	ore and the outer envelope of the object? N.
• Are the edges of the outer envelope sh	
Can any detail or mottling be seen in t	the outer envelope (bright or dark patches or lanes)?
	Spral
Are there any other deep-sky objects i	in the same need of view? If so, what?
Description	
(1999 Cole & Pratt)	

TETTER TERREPRESERVE STERVES SERVES S

42

Object ID: N(-C 530 %	
Const.:	ObserverO1 \( \frac{1}{2} \),
RA: Dec.:	Date 4/3/9
Mag: Size:	Time 11130
	Location CAMP GARLAND
	Seeing Transparency II-
	Instrument XT12
	Size 12
	Eyepiece 2x42
	Field of view Power
• Can this galaxy be seen with direct vision, or	is averted vision required?
• What is the overall shape? ○✓✓✓	
• Is a core noticeable?	
Is the core compact or stellar?	
Can any detail be seen between the core and	
• Are the edges of the outer envelope sharp or	
<ul> <li>Can any detail or mottling be seen in the oute</li> </ul>	er envelope (bright or dark patches or lanes)? 🖊
Are there any other deep-sky objects in the sa	
	106
Description	
1999 Cole & Prait)	

**Observing Log** Object type: Galaxy Object ID: NGC 5371 (+5353/5354/5350/5355/ B. 40 UNG Const.: Observer 3/26/9 Dec.: Date Size: 5358 Mag: Time 12100 Location (MCL Transparency T Seeing 5353 Instrument XT-12 535 12 Size Eyepiece 2x 42

Field of view Power 75x 5355 1-5350 Can this galaxy be seen with direct vision, or is averted vision required? Others all shapes as shown, No nucleus except What is the overall shape? Rowl Is a core noticeable? hm+ W/5353 Is the core compact or stellar? Can any detail be seen between the core and the outer envelope of the object? Yes, grainy texture 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? Whole grow Description

(1999 Cole & Prait)

Object ID: NGC SYY3	HZ
Const.:	Observer B. YOWL
RA: Dec.:	Date 6/30/8
Mag: Size:	Time 1:57 CDT
	Location Alans March
	Seeing I Transparency I-
′ \	Instrument XT-12
	Size 12
	Eyepiece 2 x 4 2
	Field of view Power 75x
<ul> <li>Are the edges of the outer envelope sharp of</li> <li>Can any detail or mottling be seen in the outer there any other deep-sky objects in the</li> </ul>	d the outer envelope of the object? Some which diffuse?  Iter envelope (bright or dark patches or lanes)? Mosame field of view? If so, what?
Description	
(1999 Cole & Prott)	

# Observing Log

Object type: Galaxy Object ID: M101+ NGC 5447/48+?= 5462 Const.: UM~ Observer Date __ 6 /30 /8 RA: _____ Dec.: ____ Time 1:30 COT Size: __ Location A Low Seeing Transparency T-Instrument XT-12Size 12 Eyepiece 2×42nn Field of view _____ Power ________ Can this galaxy be seen with direct vision, or is averted vision required? desail, within What is the overall shape? Is a core noticeable? 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? 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 Lors of rebular regions,

Some of which are

separte NGC objects are Hz objeus, too

(1999 Cole & Pratt)

Object ID: MGC 5473/5485	H2
Const.:	Observer Bi Yomb
RA: Dec.:	Date 6/30/8
Mag: Size:	Time 1:50 COT
	Location Adams Ranch
"Nis	Seeing Transparency I-
	Instrument XT-12
<b>©</b>	Size12
	Eyepiece Zx 4 2
	Field of view Power 75x
2185	
• Can this galaxy be seen with direct vision or	is averted vision required?
• What is the overall shape?	
• Is a core noticeable? Ye	
• 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?
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the s	ame field of view? If so, what?
<b>Description</b>	
	,
(1999 Cole & Pratt)	

Object ID: N/c 5480/81	H2
Const.:	Observer Bi 40M
RA: Dec.:	Date
Mag: Size:	Time 2100 COT
	Location
5480	Seeing T Transparency T
340	Instrument XT-12
₩.	Size \ 2
'a	Eyepiece 2x 4 2
	Field of viewPower_75
548	
Can this galaxy be seen with direct vision, or	or is averted vision required?
• What is the overall shape? Nowh & Z.	
	<b>~</b> (
• Is a core noticeable? Vo	
• Is the core compact or stellar?	
Can any detail be seen between the core an	d the outer envelope of the object?
• Are the edges of the outer envelope sharp o	go r diffuse?
Clown	) iter envelope (bright or dark patches or lanes)?
<ul> <li>Are there any other deep-sky objects in the</li> </ul>	same field of view? If so, what?
Description	
(1999 Cole & Pratt)	

Object ID: NGC 5490	42
Const.:	Observer B. Yowk
RA: Dec.:	Date 7/1/8
Mag: Size:	Time \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
	Location Adams Ranch
	Seeing Transparency T
	Instrument XT-12
	Size12_
· · · · · · · · · · · · · · · · · · ·	Eyepiece 2x 4 2
	Field of view PowerPower
<ul> <li>Can this galaxy be seen with direct vision,</li> <li>What is the overall shape?  \( \sigma \sqrt{\chi} \)</li> <li>Is a core noticeable? \( \sqrt{\chi} \sqrt{\chi} \)</li> <li>Is the core compact or stellar?</li> </ul>	or is averted vision required?
• Can any detail be seen between the core an	nd the outer envelope of the object?
Are the edges of the outer envelope sharp of	or diffuse?
	uter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	same field of view? If so, what? No
Description	
(1999 Cole & Pratt)	

## **OBSERVATION LOG**

H1 (conf.)=5634 HZ=54938 7.74 5426

NAME	DATE /	INSTRUMENT	SEEING	OBJECT NAME
B YOUNG	1720/6	VT-12	I	NGC 6534
SITE	) TIME	POWER	TRANSPARENCY	CONSTELLATION
e RMCC	12:00	36x	TIM	VV
	· · · · · · · · · · · · · · · · · · ·	DESCRIPTION		
(= 0 2/ h	1 0 0	_ 0		
Vares @ 36x bu	- ensing	seen,		
	/			

NAME	DATE	Instrument	SEEING	OBJECT NAME
. U	Lr .	И		NGC 5493
SITŽ ((	12705	POWER	TRANSPARENCY	CONSTELLATION
Shelliptial, seen by no Letall new a sque of for				

NAME	<b>DÀTE</b> U	<b>Instrument</b> 4	<b>SERING</b> U	NG-e 5468
SITE 01	13ME 1210	POWER U	TRANSPARENCY	CONSTELLATION
Sitting on top  size-fades out s  show		,		no nudeus, no

NAME II	DATE ()	PISTRUMENT !(	SEXING I(	NHC 5426/7
SATE VI	12113	PÓWER N	Transparency A	CONSTRILATION/
Elongaled, con't syllit a this power, Nendseens bighter Oldly shaped, can see host of diplosity				

		Observing Log Object type: Galaxy	H2
Object ID:	NGC 550	6/7	i
Const.:	V~	Observer B 40	M
	Dec.:		
Mag:	Size:		
		Location ADAMS	
		550 Seeing II Trans	parency <u>T</u>
		Instrument XT-12	
	•	Size 12	
	•	Eyepiece 72 x 2	
	•	Field of view	Power 75
			And the second of the second o
•			
• Can this gal		ect vision, or is averted vision required?	
• What is the	overall shape? ೮	me 2x1, other ellip	
• Is a core not	ticeable? Yes	yes )	
• Is the core c	compact or stellar?	(2	,
• Can any det	tail be seen between	the core and the outer envelope of the obj	ect? $N_{ m D}$
• Are the edge	es of the outer envelo	ope sharp or diffuse?	_
• Can any det	tail or mottling be se	en in the outer envelope (bright or dark pa	atches or lanes)? 🍾
• Are there an	ıy other deep-sky ob	jects in the same field of view? If so, what	1? Each other
Description			

(1999 Cole & Pratt)

Objec	t type: Galaxy
Object ID: NGC 5520	$\mathcal{G}_{\mathcal{A}}$
Const.: Dog	Observer Di Youk
RA: Dec.:	Date 7/2/8
Mag: Size:	Time 1130 COT
	Location CMCC
	Seeing Transparency T
	Instrument XT-12
<b>®</b>	Size \ 2
	Eyepiece 2x 42
\	Field of view Power 752
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape? You	
<ul> <li>Is a core noticeable?   √○</li> </ul>	
• Is the core compact or stellar?	
Can any detail be seen between the core are	nd the outer envelope of the object? A
Are the edges of the outer envelope sharp (	
Cau any detail or mottling be seen in the o	uter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	e same field of view? If so, what?
Description	
(1999 Cole & Prait)	

Object ID:	minus.
Const.:	Observer B. YOWK
RA: Dec.:	- /. l
Mag: Size:	Time 1:40 COT
	Location Alans March
	Seeing Transparency T
	Instrument XT-12
	Size 2
	Eyepiece 2x Y 2
	Field of view Power
	rise
• Can this galaxy be seen with direct vision	on, or is a erted vision required?
• What is the overall shape? 2x1	
• Is a core noticeable? 51 mby	
• Is the core compact or stellar?)	
	·
• Can any detail be seen between the core	e and the outer envelope of the object?
Are the edges of the outer envelope share	rp or (iffuse)?
• Can any detail or mottling be seen in th	ne outer envelope (bright or dark patches or lanes)? 🏑 o
Are there any other deep-sky objects in	the same field of view? If so, what?
	<b>/</b> 0
<b>Description</b>	
(1999 Cole & Prait)	
	767

Object ID: NFC 5529	
Const.:   \$\int \text{\$\gamma_{\sigma}}\$	Observer Byant the
RA: Dec.:	Date C/7/8
Mag: Size:	Time 2:35
	Location(MCC
	Seeing Transparency T
	Instrument XT-12
	Size 12
	Eyepiece 2x 32
	Field of view Power
	BEA.
• Can this galaxy be seen with direct vision) or	is averted vision required?
• What is the overall shape? 51. elay	•
• 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?
• Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)? 🗸
• Are there any other deep-sky objects in the s	ame field of view? If so, what?
<b>Description</b>	
(1999 Cale & Pratt)	

Object ID: NGC 5533	
Const.:	Observer 0 your
RA: Dec.:	Date 6/7/3
Mag: Size:	Time 2:15
	Location MCC
	Seeing Transparency T
	Instrument AT-17
	Size
	Eyepiece 2x 72
	Field of view Power
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape? 311	
- T	
• Is a core noticeable? Yes	
• Is the core compact or stellar?	
• Can any detail be seen between the core and	l the outer envelope of the object? 焰
• Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mothing be seen in the ou	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the:	same field of view? If so, what? 100
<b>Description</b>	
(1999 Cele & Pratt)	

O	b	se	r	V	in	g	L	og
$\sim$ 1	. •			_		7A T	- T.	

Object type: Nebula (man Object ID: NGC 5547 B. Your Const.: Dec.: _____ Date Size: Time Location Seeing II Transparency Instrument XT-12 Eyepiece 2x 42 Field of view ___ Power 75x 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? Is any part of the outer edge of the nebula sharply defined? Is any part of the nebula brighter or more concentrated? Noc 13 converce 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? 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? Description While withy 5723, this one district m!

(1999 Cole & Pratt)

·	sypo. Galaxy
Object ID: NGC 5760/66/69	
Const.:	Observer B Yom
RA: Dec.:	Date 6/29/8
Mag: Size:	Time 10:58
5560	Location ADAMS Wordt
	Seeing Transparency T
	Instrument X+-12
	Size
	Eyepiece 2x 42
	Field of view Power
7569	
• Can this galaxy be seen with direct vision, or	is averted vision required?
• What is the overall shape?	1 5566 = 3x1glan 5569 = 2x1gla
• Is a core noticeable? 55% o yes / No	1515111.
• Is the core compact or stellar? $C/-/C$	
• Can any detail be seen between the core and	the outer envelope of the object? No No No
• Are the edges of the outer envelope sharp or	diffuse?
Can any detail or mottling be seen in the outer	er envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the sa	•
,,,,	each of s
Description	
(1999 Cole & Pratt)	

Object ID:	
Const.: So-o	Observer B Yowk
RA: Dec.:	Date
Mag: Size:	Time 2115
	Location (MCC
	Seeing Transparency
	Instrument XT-12
on sut	Size 17
14 1	Eyepiece 2x42
5, 1	Field of view Power
1	I dwer
Can this galaxy be seen with direct vision	Are is awarded vision near in 19
	or is averted vision required;
• What is the overall shape? [low]	
• Is a core noticeable? Ye>	
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	<b>Y</b>
	/
<ul> <li>Can any detail or mottling be seen in the</li> </ul>	outer envelope (bright or dark patches or lanes)? 🦰
Are there any other deep-sky objects in the state of	he same field of view? If so, what?
Description	
(1999 Cate & B	

Object ID: NGC 5785	H2
Const.: UMa	Observer Bi Yang
RA: Dec.:	Date 7/2/8
Mag: Size:	Time 2110 CDT
	Location MCC
	Seeing Transparency T
	Instrument XT-12
	Size 12
	Eyepiece 2x Y 2
\' ' \	Field of viewPower_75
	the outer envelope of the object? No diffuse?  ter envelope (bright or dark patches or lanes)? No
• Are there any other deep-sky objects in the	same field of view? If so, what?
Description	
(1999 Cole & Prait)	

## Observing Log

		_	-		-	-		7	₽.		-8
Ob	i	ЭС	t	4	t	л	oe:	4	G	al	axv

.1. == -1== =	H2
Object ID: Me 5595 6597	- · · · · · · · · · · · · · · · · · · ·
Const.:	Observer B. Young
RA: Dec.:	
Mag: Size:	
	Location Adms Ranch
	Seeing Transparency +-
	Instrument XT-12
	Size <u>12</u>
	Eyepiece $2 \times 42$
	Field of viewPower
<ul> <li>Can this galaxy be seen with direct vision</li> </ul>	on, or is averted vision required?
• What is the overall shape? Owl,	
• Is a core noticeable? Vo	
·	
• Is the core compact or stellar?	
• Can any detail be seen between the core	and the outer envelope of the object? M
Are the edges of the outer envelope share	p or diffuse?
Can any detail or mottling be seen in the	e 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 On them, w/	nre del son de a nivor.
Mode and a second	
(1999 Cole & Pratt)	

Object ID: NFC 5600	- Az
Const.: Coo	
RA: Dec.:	Date
Mag: Size:	
	Location Adams Carch
	Seeing Transparency
	Instrument XT-12
1	Size 2
	Eyepiece Zx 42
	Field of view Power
	FORGOT TO DRAW! 7/3/08
Can this galaxy be seen with direct vision	or is averted vision required?
• What is the overall shape? Con	remember
• Is a core noticeable? Ye)	15 Was V
• Is the core compact or stellar?	Om, sma None 9
	SILIPTIC
Can any detail be seen between the core a	and the outer envelope of the object? Wo
Are the edges of the outer envelope sharp	ordiffuse?
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	ha sama field of view 9. If an auch 149
the start deep my objects in the	ne same nead of view? If so, what?
Description	
999 Cole & Pratt)	

Object	type: Galaxy
Object ID: NGC 5602	
Const.:	Observer B, Young
RA: Dec.:	Date 7/2/8
Mag: Size:	Time
	Location RMCC
	Seeing <u>U</u> Transparency <u>U</u>
	Instrument XT-12
	Size 12" 2×42
	Eyepiece
	Field of view Power
Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? Now!	
• Is a core noticeable?	
Is the core compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the object? No
<ul> <li>Are the edges of the outer envelope sharp or</li> </ul>	diffuse?
<ul> <li>Can any detail or mottling be seen in the out</li> </ul>	ter envelope (bright or dark patches or lanes)?
<ul> <li>Are there any other deep-sky objects in the s</li> </ul>	ame field of view? If so, what?
Description	

(1999 Cole & Prait)

	serving Log ct type: Galaxy
Object ID: NG-C 5636/5635	112
Const.: Viv	Observer B Your
RA: Dec.:	Date 6/29/8
Mag: Size:	Time
565	18 Location Adm Rach
\(\frac{1}{2}\)	Seeing Transparency T-
	Instrument XT12
	Size12
	Eyepiece 2X Y2
	Field of view Power
7636	
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape? 38 = and	36=2<1
• Is a core noticeable?	
• Is the core compact or stellar? C/I/A	
Can any detail be seen between the core as	nd the outer envelope of the object? No
Are the edges of the outer envelope sharp of	
	uter envelope (bright or dark patches or lanes)? Vo
	·
<ul> <li>Are there any other deep-sky objects in the</li> </ul>	e same field of view? If so, what? Each other
Description	

(1999 Cole & Pratt)

	+2
Object ID: NGC 5602	
Const.:	Observer B. Young
RA: Dec.:	Date 7/2/8
Mag: Size:	Time 1:17 COT
	Location RMCC
	Seeing <u>T</u> - Transparency <u>T</u>
	Instrument XT-12
	Size 12" 7×42
<b>∲</b> *• •	Eyepiece
	Field of view Power
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? Now	
• Is a core noticeable?	
Is the core compact or stellar?  ——	
• Can any detail be seen between the core and	the outer envelope of the object? Mo
• Are the edges of the outer envelope sharp or	diffuses
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	same near or views. It so, whats $6.0 \lambda$
<b>Description</b>	
(1999 Cele & Prait)	

Object ID: NGC 5660	
Const.: Goo	Observer B. Youk
RA: Dec.:	Date 7/2/8
Mag: Size:	Time 2:05 COT
	Location MCC
	Seeing T - Transparency T
	Instrument XT-12
	Size12
₩ ·	Eyepiece 2x42
	Field of viewPowerPower
• Are the edges of the outer envelope sharp or	the outer envelope of the object? some motale
_	
<ul> <li>Are there any other deep-sky objects in the s</li> </ul>	RIBE DEIG OF VIEW? If so, what? ~.
Description	
(1999 Cole & Pratt)	

Object ID: N6-C 5668	
Const.:	Observer B. Yang
RA: Dec.:	Date 6/29/8
Mag: Size:	Time
	Location Adms Ranch
	Seeing II Transparency I -
	Instrument $\chi_{\tau-1}^2$
• (6)	Size 12
	Eyepiece O
	Field of viewPower
<ul> <li>Can this galaxy be seen with direct via</li> <li>What is the overall shape?</li> <li>Is a core noticeable? Ye &gt;</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the overall shape?</li> </ul>	
• Are the edges of the outer envelopes	sharp or diffuse?
• Can any detail or mottling be seen in	n the outer envelope (bright or dark patches or lanes)?
<ul> <li>Are there any other deep-sky objects</li> </ul>	the outer envelope (bright or dark patches or lanes)?
Description	
(1999 Cole & Pratt)	

Object ID: N6-C 5687	H2
Const.:	Observer B. Your
RA: Dec.:	Date 7/2/9
Mag: Size:	Time 2130 Cos
	Location MCC
	Seeing <u>U</u> Transparency <u>U</u>
	Instrument Xt-12
	Size 12
	Eyepiece 10 00
	Field of viewPower\50
• Can this galaxy be seen with direct vision, o	r is everted vision required?
• What is the overall shape? Nanh	
Is a core noticeable? Brely	
Is the core compact or stellar?	
Can any detail be seen between the core and	the outer envelope of the object? One harts of
Are the edges of the outer envelope sharp or	diffuse?
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	
and more any outer acclusing outers in the	difference of view: If 30, what: 1
Description	
(1999 Cole & Pratt)	

## Observing Log

		_	_
Object	type:	Gala	lxv

Об	ject type: Galaxy
Object ID: NGC 5728	<b>∀</b> ∠
Const.:	Observer B, Young
RA: Dec.:	Date <u>C/30/9</u>
Mag: Size:	
	Location Adm Parch
	Seeing II Transparency I-
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Instrument XT-12
* .	Size 2
	Eyepiece 2x #2
	Field of view Power
Can this galaxy be seen with direct vision	on, or is averted vision required?
• What is the overall shape? Onl, 2x	1
• Is a core noticeable? \( \psi_0 \)	
• Is the core compact or stellar?	
• Can any detail be seen between the core	and the outer envelope of the object? 51. MoxNy
• Are the edges of the outer envelope shar	TO gr diffuse?
	e outer envelope (bright or dark patches or lanes)? $\sim$
Are there any other deep-sky objects in a	the same field of view? If so, what?
Description	
(1999 Cole & Pratt)	

Object ID: N6-C 5756	H2
Const.:	Observer C . Yana
RA: Dec.:	Date 7/1/8
Mag: Size:	Time
(35)4.	Location RMCC
· (35)53.	Seeing <u>II</u> - Transparency <u>II</u>
7	Instrument XT 2
	Size12
	Eyepiece 42x2
	Field of view Power
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape?	
• Is a core noticeable? Ye	
• 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 of	diffuse?
(	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the s	name field of view? If so, what?
<b>Description</b>	
(1999 Cole & Prait)	

Object ID: NGC 5791	
Const.:	Observer B Your
RA: Dec.:	Date 6/7/8
Mag: Size:	Time 2:50
	Location (MCC
	Seeing Transparency T
	Instrument X114
	Size 12
	Eyepiece 2x 42
	Field of view Power
· /	I TOTAL DE VICE
Can this galaxy be seen with direct vision, (	or is averted vision required?
_	
• What is the overall shape? Runk	
• Is a core noticeable?	
• Is the core compact or stellar?	
Can any detail be seen between the core an	d the outer envelope of the object? A
Are the edges of the outer envelope sharp o	i diffuser
• Can any detail or mottling be seen in the or	ater envelope (bright or dark patches or lanes)? 🥀 🖔
Are there any other deep-sky objects in the	same field of view? If so, what?
<b>Description</b>	
(1999 Cole & Pratt)	

## **Observing Log**

Object type: Galaxy H2 Object ID: NGC \$75 Const.: VY Observer Date Mag: Size: Time Location RMCC Seeing <u>II</u> - Transparency <u>II</u> Instrument X T-12 Size 12 Eyepiece 2x42

Field of view Power 75 Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? 5, 0, Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core and the outer envelope of the object? Some 'bar' like

Are the edges of the outer envelope characters and the outer envelope of the object? 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)? ~o Are there any other deep-sky objects in the same field of view? If so, what? (B) = sat infinder 14454+2 V

Description

(1999 Cole & Prait)



Object ID: NFC 5806	- -
Const.: VN	Observer
RA: Dec.:	
Mag: Size:	· .
	Location CMCC
	Seeing Transparency
/	Instrument $\Delta T = 12$
	Size 12
	Eyepiece 0
	Field of viewPower
What is the overall shape? Song	
Is the core compact or stellar?	yos! vertical vocice
Can any detail be seen between the co	nre and the outer envelope of the object?"
/ from	~C13
Are the edges of the outer envelope sha	
Can any detail or mottling be seen in t	the outer envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects i	in the same field of view? If so, what? $\sim_{\circ}$
Description Closs Monn	ZIN!

(1999 Cole & Pratt)

Object ID: NGC 5812	H 2
Const.:	Observer B 70-4WL
RA: Dec.:	Date 6/7/8
Mag: Size:	Time 3,00
	Location RMCe
	Seeing The Transparency T
	Instrument XT-12
	Size 17
	Eyepiece 2x42
	Field of viewPower
/	
<ul> <li>Can this galaxy be seen with direct vision</li> <li>What is the overall shape?</li> <li>Is a core noticeable?</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and</li> <li>Are the edges of the outer envelope sharp of</li> <li>Can any detail or mottling be seen in the outer there any other deep-sky objects in the</li> </ul>	d the outer envelope of the object?  I diffuse?  I diffuse?  I diffuse?  I diffuse or lanes o
Description	
(1999 Cole & Pratt)	

Object ID: NGC 5813		
Const.: V M	Observer 07	
RA: Dec.:	Date 5720/7	
Mag: Size:	Time 130 COT	
	Location MCC	
	Seeing Transparency	II .
	Instrument XT-12	
	Size 2	
	Eyepiece O	
	Field of view Power	50x
		(
• Can this galaxy be seen with direct vision, or	r is averted vision required?	
• What is the overall shape? Runk		
• Is a core noticeable?		
Is the core compact or stellar?		
Can any detail be seen between the core and	the outer envelope of the chiest?	
Are the edges of the outer envelope sharp or	diffuse?	•
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lai	ies)? No
• Are there any other deep-sky objects in the s	same field of view? If so, what? $\sim$	
	•	
Description		The state of the s
Maca at a second		

Object ID: NGC \$831	HZ	
Const.:	Observer Bi 40mb	
RA: Dec.:	Date 7/2/8	
Mag: Size:	Time 150 COT	
	Location (MCC	
	Seeing II - Transparency I	
	Instrument XT-12	
	Size 2	
	Eyepiece Omm	
	Field of view Power 100x	
<ul> <li>Can this galaxy be seen with direct vision, or is averted vision required?</li> <li>What is the overall shape?   </li> <li>Is a core noticeable?   </li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object?   </li> </ul>		
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 Used 150x to see it any of these would		
The A-not much improvement.		
(1999 Cole & Prait)		

HZ

Object ID: NG-C 5831	
Const.: V ~	Observer B YOWL
RA: Dec.:	Observer B YOWL  Date 6/9/7
Mag: Size:	Time 12/20
	Location MCC
	Seeing I Transparency I
	Instrument XT-12
	Size 12
	Eyepiece 42/2
	Eyepiece 42/2 Field of view Power
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape?	
• Is a core noticeable? No	
• Is the core compact or stellar?	
• Can any detail be seen between the core at	
• Are the edges of the outer envelope sharp	diffuse?
	uter envelope (bright or dark patches or lanes)?
	• • • • • • • • • • • • • • • • • • • •
Are there any other deep-sky objects in the	e same nead of view: It so, what:
Description	
(1999 Cale & Prott)	

Object ID: <u>NGC 5838</u> Observer RA: _____ Dec.: ____ Date Time Location ____ RMCC Seeing <u>I</u> — Transparency <u>I</u> Eyepiece 7× Y2 Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? On Is a core noticeable? Yes Is the core compact ok stellar? Can any detail be seen between the core and the outer envelope of the object? Are the edges of the outer envelope sharp of 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?  $\mathcal{N}_{\mathcal{O}}$ Description (1999 Cole & Prait)

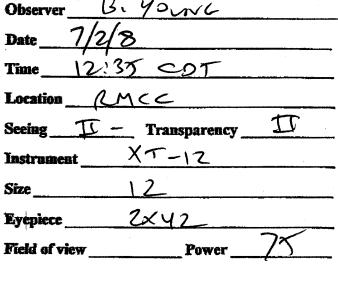
Object ID: NFC 5838	
Const.: V ~	Observer B Your
RA: Dec.:	Date 6/9/7
Mag: Size:	Time 12:30
	Location (WCC
	Seeing Transparency T
	Instrument XT-12
	Size 12
	Eyepiece $42/2$
	Field of view Power
• Can this galaxy be seen with direct vision, o	er is averted vision required?
• What is the overall shape?	
• Is a core noticeable? "All core"	
• Is the core compact or stellar?	
Can any detail be seen between the core and	
• Are the edges of the outer envelope sharp or	rdiffuse? (none)
Can any detail or mottling be seen in the out	iter envelope (bright or dark patches or lanes)? ~
Are there any other deep-sky objects in the	
- And there any other deep-sky objects in the	Same neid of view: 11 so, what: No
Description Didn't see elge	on shipe
(1999 Cole & Pratt)	

Object ID: No-c 5839/45/46/5	H	(
	( >	820
Const.:	Observer Bi Your	····
RA: Dec.:		·
Mag: Size:	Time 12145 COT	
2839	Location MCC	
845-7	Seeing Transparency T	
	Instrument XT-12	<del></del>
	Size 12	<del>5.000</del>
	Eyepiece XYZ	-
1	Field of view Power /5	
<ul> <li>Is a core noticeable? Yes \$/\$/c/c</li> <li>Is the core compact or stellar?</li> </ul>		
	nd the outer envelope of the object?	
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	e same field of view? If so, what? Each of	
Description 583925845 e	io.v. Ssmill	

HZ (5850)

	type: Galaxy
Object ID: NGC 5846/50	23035)
Const.: VIC	Observer B Yo UNG
RA: Dec.:	Date $\frac{6/9/7}{}$
Mag: Size:	Time 12140
5841	Location MCC
	Seeing Transparency T
	Instrument XT-12
••	Size 12
	Eyepiece 42/2
	Field of view Power
/	
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape? Romls	
<ul> <li>Is a core noticeable?</li></ul>	
• Is the core compact or stellar?	
• Can any detail be seen between the core and	I the outer envelope of the object? $\mathcal{N}_{\mathcal{O}}$
Are the edges of the outer envelope sharp or	diffuse?
	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the:	same field of view? If so, what? Each of
Description OWF AZIONE	SKEWED- NOT THIS CLOSE

		Object type: Galaxy
Object ID: _	NG-C 5854	
Const.:	Vw	Observer B. 400
RA:	Dec.:	Date 7/2/8



- Can this galaxy be seen with direct vision, or is averted vision required?
- What is the overall shape? 2x \

Size:

Is a core noticeable?

Mag:

- 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?
- 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? Machine

Description				
		·	 	
				·
(1999 Cale & Prest)				

Object ID: NG-C 5854	
Const.: VIA	Observer B YOM
RA: Dec.:	Date C/9/7
Mag: Size:	Time 12:50
	Location MCC
	Seeing I Transparency I
	Instrument XT-12
•	Size
	Eyepiece 42/2
	Field of view Power
<ul> <li>Can this galaxy be seen with direct vision, or</li> <li>What is the overall shape? Thy owk</li> <li>Is a core noticeable? All the</li> <li>Is the core compact or stellar?</li> </ul>	
• Can any detail be seen between the core and	I the outer envelope of the object? $\mathcal{N}_{b}$
Are the edges of the outer envelope sharp or	diffuse? None
• Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)? 🌙o
Are there any other deep-sky objects in the :	same field of view? If so, what? No.
Description	

(1999 Cole & Pratt)

	•		V
Object ID: NGC 586	· · · · · · · · · · · · · · · · · · ·		
onst.:	ObserverO	York	
.: Dec.:	Date C	17/8	
Size:	Time	lilo	
	Location	MCC	
	Seeing	Transparency _	<u> </u>
	Instrument	XT-12	
•	Size	12	
•	Eyepiece	2×42	
	Field of view	Power	<u> </u>
	***************************************		
this galaxy be seen with direct vis	ion, or a severted vision re	eanired?	
	The state of the s	rguiz cu-	
the overall shape?	104)		
eticeable? No			
e compact or stellar?			
y detail be seen between the co	e and the outer envelone	of the object?	
		me onless.	<b>c</b>
edges of the outer envelope sha	urp or diffuse?		
il or mottling be seen in t	he outer envelope (bright	or dark patches or	lanes)? N
y other deep-sky objects is			^_
1 amm modern't enforce n	PORGEEN EINEM US FIGHT &	and masses	

Object ID: NG 5864	
Const.: V	
RA: Dec.:	
Mag: Size:	Time 12:40 COT
	Location MCC
	Seeing <u>T</u> - Transparency <u>T</u>
	Instrument XT-12
	Size1 2
	Eyepiece 2x42
	Field of viewPower
<ul> <li>Can this galaxy be seen with direct vision</li> </ul>	, or is averted vision required?
• What is the overall shape?	
Is a core noticeable? Brely	
Is the core compact or stellar?	
Can any detail be seen between the core a	and the outer envelope of the object? Some
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 state of	
The mere any other deep-sky objects in the	ne same mid of view: It so, what: 1 -0
Description	
MOOD CO. T. A. T. L.	

Object ID: NFC 584	
Const.: VIC	Observer <u>B Yourd</u> Date <u>6/9/7</u>
RA: Dec.:	Date 6/9/7
Mag: Size:	
	Location CMCC
	Seeing I Transparency II -
	Instrument XTIZ
\ \ \ \ \ \	Size
	Eyepiece 42/2
	Field of view Power
<ul> <li>Is a core noticeable? Br</li> <li>Is the core compactor stellar? A br</li> </ul>	and the outer envelope of the object? Very 17the
Can any detail or mottling be seen in the	e outer envelope (bright or dark patches or lanes)? $\mathcal{N}_{\odot}$
Are there any other deep-sky objects in t	the same field of view? If so, what?
Description	
(1999 Cole & Pratt)	·

(0 1100	V ) <b>(</b>
Object ID: NG-C 5778	
Const.:	Observer B, Young
RA: Dec.:	Date
Mag: Size:	Time 12105 COT
	Location Admy March
	Seeing Transparency T-
	Instrument X+-12
	Size 12
	Eyepiece 2x 42
	Field of viewPower
• Can this galaxy be seen with direct vision,	or is averted vision required?
<ul> <li>What is the overall shape? ○ √√√</li> </ul>	
•	
Is the core compact or stellar?	
• Can any detail be seen between the core ar	nd the outer envelope of the object? Notwork, a bit
Are the edges of the outer envelope sharp	or diffuse?
	•
Can any detail or morning be seen in the o	uter envelope (bright or dark patches or lanes)? No
Are there any other deep-sky objects in the	e same field of view? If so, what? No, baccol free
Description	,
Description	
(1999 Cole & Pratt)	
COOK OF FERLY	

HZ

Object ID: NGC 58/9	
Const.:	Observer B. YONG
RA: Dec.:	Date 7/6/8
Mag: Size:	Time 3:25
	Location (ACC
	Seeing T- Transparency T-
	Instrument XT-12
	Size   7_
•	Eyepiece 2X42
	Field of view Power
	(he
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? ( )	
• Is a core noticeable?	
• Is the core compact or stellar?	
• Can any detail be seen between the core and	I the outer envelope of the object? $N_{o}$
Are the edges of the outer envelope sharp or	
• Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)? N
• Are there any other deep-sky objects in the s	same field of view? If so, what?
Description	

Object ID: NGC 5899	H2
Const.: Coo	Observer B. Yow G
RA: Dec.:	- la la
Mag: Size:	Time 21/5 COT
	Location MCC
	Seeing
	Instrument XT-12
1 N	Size 12
	Eyepiece 10 MM
/	Field of viewPower_170
<ul> <li>Can this galaxy be seen with direct vision.</li> <li>What is the overall shape? 3x \</li> <li>Is a core noticeable? Sirely.</li> <li>Is the core compact or stellar?</li> </ul>	
• Can any detail be seen between the core a	and the outer envelope of the object? Yes, some
Are the edges of the outer cuvelope sharp	
Can any detail or mottling he seen in the	outer envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the state of	
<b>Description</b>	
(1999 Cole & Prait)	

### Observing Log

Object type: Galaxy

Object ID: NGC 5970 Const.: () your Observer Dec.: Date 3:25 Size: Time Mcc Location Transparency 1 如 Seeing Instrument XT-12 Eyepiece 2x42 Field of view ______Power 72 Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core and the outer envelope of the object? St. 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? No Description

(1999 Cole & Pratt)

### PNOC

Object type: Planetary Nebula

Const.:CB	Observer B. Yound
RA: Dec.:	
Mag: Size:	
	Location Mcc
	Seeing Transparency T- (+)
	Instrument Oxng
	Size 12.5
	Eyepiece 28
*	Field of view Power 73
	tings.
<ul> <li>What is the overall shape?</li> <li>Is this planetary easy or different contents.</li> </ul>	_
<ul> <li>What is the overall shape?</li> <li>Is this planetary easy or diff.</li> <li>What is the color of this pla</li> <li>Is it disk-shaped or is it mot</li> <li>Are the edges of the disk sh</li> </ul>	etary? stellar in appearance?
<ul> <li>Is this planetary easy or diffe</li> <li>What is the color of this pla</li> <li>Is it disk-shaped or is it mon</li> <li>Are the edges of the disk shaped</li> </ul>	etary? stellar in appearance?
<ul> <li>Is this planetary easy or diffe</li> <li>What is the color of this pla</li> <li>Is it disk-shaped or is it mon</li> <li>Are the edges of the disk sh</li> <li>Is the center brighter, dark</li> </ul>	etary? — stellar in appearance? p or diffuse?
<ul> <li>Is this planetary easy or diffe</li> <li>What is the color of this pla</li> <li>Is it disk-shaped or is it mon</li> <li>Are the edges of the disk sh</li> <li>Is the center brighter, dark</li> <li>Any suggestions for observing</li> </ul>	etary? stellar in appearance? p or diffuse? , or the same brightness as the edges?
<ul> <li>Is this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of this planetary easy or different to the color of the disk should be color of the disk should be color of the disk should be color of the color of the disk should be color of the color of the disk should be color of the disk should be color of the color of t</li></ul>	etary? stellar in appearance? p or diffuse? , or the same brightness as the edges? g this nebula (I.e. filter, power, field of view, etc.)?

Object ID: NFC 6070	
Const.: Se	Observer Byonh
RA: Dec.:	Date 6/7/8
Mag: Size:	Time
	Location MCC
	Seeing Transparency T
	Instrument XT-12
	Size 12
• .	Eyepiece 42
	Field of view Power
• Can this galaxy be seen with direct vision, o	or is averted vision required?
What is the overall shape?	tiger and
• Is a core noticeable? Ye	
Is the core compact or stellar?	
	م م ا
• Can any detail be seen between the core and	d the outer envelope of the object? Ye) - 2006
Are the edges of the outer envelope sharp or	r/diffuse?
Can any detail or mottling be seen in the out	iter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	sama field of view? If so what?
- 222 mere any vence deep-say objects in the	Same read of vicy; it so, what:
<b>Description</b>	

H2

Object ID:	·
Const.:	Observer B YOM
RA: Dec.:	Date 6/7/8
Mag: Size:	Time3': 36
	Location RMCC
	Seeing Transparency T
· · \	Instrument XT-)~
🌞	Size12
•	Eyepiece 2x 42
	Field of view Power 72
• Can this galaxy be seen with direct vision of	r is averted vision required?
• What is the overall shape?	
• Is a core noticeable?	
Is the core compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the object? $N_o$
Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling he seen in the out	ter envelope (bright or dark patches or lanes)?
· · · · · · · · · · · · · · · · · · ·	
Are there any other deep-sky objects in the s	same field of view? If so, what?
<b>Description</b>	

(1999 Cole & Pratt)

Object ID: NGC 6155	H2
Const.:   fer	Observer B. Your
RA: Dec.:	Observer B. Your  Date 6/30/8
Mag: Size:	Time 3 145 CD5
	Location Adam Ruch
	Seeing Transparency T-
	Instrument $\sqrt{T-12}$
	Size\2
	Eyepiece On M
	Field of view Power
<ul> <li>Can this galaxy be seen with direct vision, or</li> <li>What is the overall shape?</li> <li>Is a core noticeable?</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and</li> </ul>	r is averted vision required?  the outer envelope of the object? Suce notice
• Are the edges of the outer envelope sharp or	diffuse?
	ter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the s	same field of view? If so, what? No, born 20061
Description	
(1999 Cole & Pratt)	

J08

H2

Object ID: Note 616	6+6166A
Const.:	Observer Bal Young
RA: Dec.;	Date 10/13/7
Mag: Size:	Time 10!36
	Location MCC
	Seeing Transparency T
	Instrument XT/2
·	Size 12
	Eyepiece O
3	Field of view Power Power
166-	
J. P	
• Can this galaxy be seen with dir	rect vision, or is averted vision required?
• What is the overall shape? O	$\mathcal{A}$
• Is a core noticeable? No	
• Is the core compact or stellar?	$\sqrt{\circ}$
Can any detail be seen between:	the core and the outer envelope of the object?
Are the edges of the outer envelo	
	en in the outer envelope (bright or dark patches or lanes)?
Are there any other deep-sky ob.	jects in the same field of view? If so, what? A?
Description	6166-A
(1909 Caja & B41)	

Object ID: NFC 6 18 1	
Const.: Her	Observer B. Yang
RA: Dec.:	Date 10/13/7
Mag: Size:	Time 19130
	Location (MCC
	Seeing Transparency T
	Instrument Nr-12
	Size 12
	Eyepiece     O
	Field of view Power
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape?	
<ul> <li>Is a core noticeable?</li></ul>	
Is the core compact or stellar?	
•	
• Can any detail be seen between the core an	nd the outer envelope of the object?
• Are the edges of the outer envelope sharp of	or diffuse?
• Can any detail or mottling be seen in the or	uter envelope (bright or dark patches or lanes)? No
Are there any other deep-sky objects in the	
	•
Description Con't tell It is	spralorelly?
(1999 Cole & Pratt)	

Object ID: NH 6239	
Const.:	Observer 3. 7 ang
RA: Dec.:	Date 6/30/8 .
Mag: Size:	Time 3:55 C95
	Location Adams Rench
	Seeing I Transparency I -
	Instrument XT-12
	Size 12
•	Eyepiece 2x 42
	Field of view Power 752
<ul> <li>Can this galaxy be seen with direct vision, o</li> <li>What is the overall shape? Cond</li> <li>Is a core noticeable? Cond</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and</li> <li>Are the edges of the outer envelope sharp or</li> <li>Can any detail or mottling be seen in the ou</li> <li>Are there any other deep-sky objects in the secription</li> </ul>	the outer envelope of the object? \( \lambda_{\infty} \) diffuse? \( - \lambda_{\infty} \) ter envelope (bright or dark patches or lanes)? \( \lambda_{\infty} \) same field of view? If so, what? \( \lambda_{\infty} \)
(1999 Cole & Prait)	

### Observing Log Object type: Open Cluster

	Object type: Open Cluster
Object ID: NG 6507	H2
Object ID: NGC 6507  Const.: Sor	Observer Bollyon
RA: Dec.:	
Mag: Size:	Time 9109
	Location Adam Carch
	Seeing I Transparency I
	Instrument XT12
· Fr	Size 12
	Eyepiece 42
	Field of view Power 3 (
<ul><li>Can this cluster be easily disting</li><li>What is the overall shape of the</li></ul>	object? Rom
• How many stars can you count i	in the cluster? \7
• Are the stars more concentrated	in any one particular area? No
• Is this cluster resolved fully or is	there some background nebulosity noticed?
Is there any particular area whe	re you notice an absence of stars in this cluster?
Are there any particularly brigh	t stars involved in this cluster? If so, do they show any colors?
Are there any other deep-sky ob	jects in the same field of view? If so, what? No
Description Miss be	Joses True Folly To
	<b>f</b>
(1999 Cole & Pratt)	

### Observing Log

<b>U</b> .	, O C		***	5		٧ē
Obj	ect	ty	je:	N	ebi	ula

	Object type: Nebula
Object ID: NGC 6526	— P) Z
Const.:	Observer B, Young
RA: Dec.:	Date
Mag: Size:	Time
M?	Location Adm, Rand
	Seeing <u> </u>
	Instrument XT-12
	Size 12
	Eyepiece 42
	Field of view Power
M20)	
• Can this nebula be seen with direct v	rision, or is averted vision required?
Is there an overall shape of the objection.	et or is it simply irregular? show + core
Is any part of the outer edge of the notice.	ebula sharply defined? (Vo
• Is any part of the nebula brighter or	more concentrated? Yes
• Is there any particular area where yo	ou notice an absence of stars in this cluster? $N_o$
	or lanes in the nebula? Any bright filaments or streamers?
•	( suttin two
• Is there an open cluster nearby or inv	volved or any obvious stars involved with this nebula?
Any suggestions for observing this ne	ebula (I.e. filter, power, field of view, etc.)?
Are there any other deep-sky objects	in the same field of view? If so, what? MZD, MZ
(1999 Cale & Proff)	
LYYY CALP & Proff)	

Object ID: NGC 6548	H
Const.: Her	Ob
RA: Dec.:	Observer B. 40wb  Date 6/30/8
Mag: Size:	Time 3115 CDT
	Location Adams Ranch
	Seeing Transparency T-
	Instrument XT-12
•	Size 12
	Eyepiece 42
ø′	Field of view Power
Con this column by any of the state of the s	
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape? No-	
• Is a core noticeable?	
• Is the core compact or stellar?	
	d the outer equalence of the above A
Can any detail be seen between the core an	
Are the edges of the outer envelope sharp or	r diffuse?)
• Can any detail or mottling be seen in the or	iter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	•
Description	
(1999 Cole & Pratt)	

# Observing Log Object type: Open Cluster

42

Object ID: NGE GRAP	
Const.:S	Observer B Young
RA: Dec.:	Date $\frac{10/10/7}{}$
Mag: Size:	
	Location Adams Nanch
	Seeing T Transparency T-
	Instrument $\chi \tau - 12$
	Size 12
	Eyepiece YZ
	Field of view Power 3 4
What is the overall shape of the object.  How many stars can you count in the concentrated in any  Is this cluster resolved fully or is there.  Is there any particular area where you	cluster? 40 y one particular area? and C some background nebulosity noticed? bleeks mto M2
Are there any other deep-sky objects in	
Description	

(1999 Cole & Prait)

## Observing Log Object type: Open Cluster

COPY FOIL HZ

Ococ

		· · · · · · · · · · · · · · · · · · ·
bject ID: _	Noe 6604	
Const.:		Observer B 70ml
RA:	Dec.:	Date 5/28/L
Iag:	Size:	Time12130
_		Location CM Ce
		Seeing Transparency T
	,	Instrument X+12
		Size 17
1		Eyepiece 42
1		Field of view Power 36
		4
		7
W		
Can this ci	uster he eavily distinguished	d from the background stars?
What is the	e overall shape of the object	t? bees/green
How many	stars can you count in the	cluster? 4 in duny, 20 smanling
		y one particular area? New 6m 5tm
		some background nebulosity noticed?
	· .	
	·	notice an absence of stars in this cluster? $\sim_0$
Are there a	my particularly bright stars	s involved in this cluster? If so, do they show any colors?
Are there a	my other deep-sky objects i	in the same field of view? If so, what? // 000
	•	
escription	Seems to be a	dm " lme" of 10-11m - to NNW.
99 Cole & Pratt)	•	

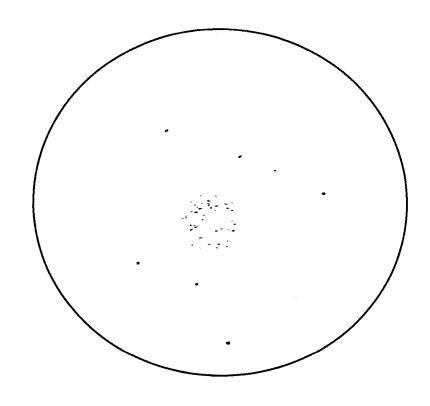
DATE C 27/3 TIME 11/15 CST CDD CLARITY () III IV V SEEING I WIN IV V
<b>INSTRUMENT</b> ETX-125 10x50 EYE <b>POWER</b> 10X 73X 153X 475X
OBJECT NAC 6717 LOCATION RMCO HOME
Easy globular 134+ next to 2 Sgr
No resolution but nice view

	Observing Log	C010F(10.0
	Object type: Nebula	H>
Object ID: Nec 6772	by.	N Z
Const.:	Observer 0, you	<b>L</b>
RA: Dec.:	Date	
Mag: Size:	Time (100	
	Location MCC	- A MARK Mark Mark Mark Mark Mark Mark Mark Mark
	Seeing <u>II</u> Transparen	cy_ <u>II-</u>
	Instrument K-12	
	Size 2	
	Eyepiece	
	Field of viewPower	150
	+03	
	/	
• Can this nebula be seen with dire	ect vision, or is averted vision required?	
	bject or is it simply irregular? Rowk	
<ul> <li>Is any part of the outer edge of the</li> </ul>	he nebula sharply defined? Frishly well	c (
<ul> <li>Is any part of the nebula brighter</li> </ul>	r or more concentrated? No - facely	eren
	e you notice an absence of stars in this cluster?	* *
<ul> <li>Are there any voids or dark patcl</li> </ul>	hes, or lanes in the nebula? Any bright filamen	ts or streamers?
•	r involved or any obvious stars involved with th	
	is nebula (Le. filter, power) field of view, etc.)?	
• Are there any other deep-sky obj	ects in the same field of view? If so, what?	So
Description		

(1999 Cole & Prait)

# Observing Log Object type: Open Cluster

Object ID: NHC 6793	
Const.:	Observer B You
RA: Dec.:	4
Mag: Size:	
	Location CMCC
	Seeing I Transparency I
	Instrument XT12
	Size 12
	Eyepiece <u>40</u>
	Field of viewPower
\	
	<u></u>
	•
Can this about the access of the	
	shed from the background stars?
What is the overall shape of the obj	ject? \ \
How many stars can you count in t	he cluster? 22
Are the stars more concentrated in	any one particular area?
	ere some background nebulosity noticed?
· ·	
Is there any particular area where y	you notice an absence of stars in this cluster?
Are there any particularly bright st	ars involved in this cluster? If so, do they show any colors?
Are there any other deep-sky object	ts in the same field of view? If so, what?
	2 close
Description	
999 Cole & Prait)	



	"Ant"	W/O STAND	14	MIDOLE	-GREAT AREA	
		•				
		-				
·			· ·			

		Observer O 7000
. RA:	Dec.:	Date
Mag:		Time 12:05 cox
	or V	Location RMCC
		Seeing <u>T</u> Transparency <u>T</u>
	•	Instrument XT12
-	·	Size   2
		Eyepiece 40
• • •		Field of viewPower37
		* T
~	10 25-30 #2	
• Can this ci		hed from the background stars? 3
		ect? #1 bee , #2 and #3 shortme
	stars can you count in th	
		any one particular area? See hay
	~ !- <i>L</i> -	re some background nebulosity noticed?
Is there any	y particular area where y	ou notice an absence of stars in this cluster?
Are there a	nv particularly hright sta	ars involved in this cluster? If so, do they show any colors?
Ama 4h	- Post-rounding wargant bear	as involved in this chaster? It so, do they snow any colors?
Are there a	ny other deep-sky objects	s in the same field of view? If so, what?
Description	·	orlar
Provide		
999 Cole & Prait)		
		321
,		

RA:	Dec.:	Date 6/25/1
Mag:	Size:	Time 12:00
		Location MCC
		Seeing Transparency I
		Instrument XCIZ
	•	Size 12
		Eyepiece O
	•	Field of viewPowerPo
	· · · · · · · · · · · · · · · · · · ·	work .
<ul> <li>What is</li> </ul>	s the overall shape? Ov~	
• Is this p	planetaly easy or difficult t	to identify in your field?
	s the color of this planetary	
		7
	k-shapedor is it more stell	ar in appearance?
• Are the	edges of the disk sharp or	
	Busses De Signification of I	the same brightness as the edges?
a Arry sec	casetions for absences (%)	s nobula (LeCineu, pers), initi di vieve, escisi. Prova
•		<b>'</b>
	we any other deep-sky obje	ects in the same field of view? If so, what? 1
₹% <u>#</u>	may 13 mm	- somming gland - st. o blang
Tenori incina	" 1117CX 1 231-16-	
***************************************		
100 200 100 100 100 100 100 100 100 100		
(1999 Cole & Pr	Patt 1	
g: जन्मतन्त्रेष्टि	· · · · · · · · · · · · · · · · · · ·	
		777
TTI		
	it is the overall shape? $\mathcal{N}_{\circ}$	
• Is a c	core noticeable?	

- Is the core compact on stellar?
- Can any detail be seen between the core and the outer envelope of the object? Mo Many

Const.:	Observer B You
	Date 9/24/6
Mag: Size:	Time 1105 COT
	Location RMCC B=+4
	Seeing Transparency T-
	Instrument XT_12
	Size12" f/<
© ···	Eyepiece 10 mm
	Field of viewPower/\fox
	WBP
	D=1d
• What is the overall shape?	your field? Not sure C.
<ul> <li>Is this planetary easy or difficult to identify in</li> </ul>	
• What is the color of this planetary? grey	Drect visio
Is it disk-shaped or is it more stellar in appeara	Q-A=ns
Are the edges of the disk sharp or diffuse?	
• Is the center brighter, darker, or the same brig	
• Any suggestions for observing this nebula (L.c.	filter power, field of view, etc.)?
· Are there any other deep-sky objects in the san	ne field of view? If so, what?
Description cs? had to confor	<u> </u>
(1999 Cole & Pratt)	
	2

INSTRUMENT ETX-12 10x50	EYE POWER 10X 73X 153X 475X
OBJECT	LOCATION RMCC HOME
D 10-4776 73x	
D NEC 6633 73X NG	c 6960)
3) VETILIFIE 6180) NEAR 520 NAC 1) 6992 PORMON @ 73x 4/0	JF A BIT BRIGHTER - SMMLER
(1) 6992 PORLOON @ 73x 6/A	JE A DIE BRIGHER - SAMEER

	-ALSO SAN VICTORIA 73X FLORA 73X	6/27 1:10 am	<del></del>
10.Comets	Must observe one comet	Coordinates for June 20	6/21/03
	Hint: Possible targets 116P/Wild 4 is in	116P- 15 02.99 -21 20.5	11:00
	Libra and Linear K4 is in Cygnus.	K4 - 21 03.50 +31 07.5	
	RX14 in Western outskirts of Virgo	RX14 11 33.2 +02 33.4	
	53P in Libra, 07 is in Leo	53P 15 44.87 -09 27.2	
Observation Notes:	Saw Vesta, no conets		
	mange of 125mm W/The	se contitions	
	Brilly frend in control on		
	(With 5230 Vreu Rom	(er)	
11. IZAR Epsilon Boote	s Double star of orange and blue in Bootes	14 44.59 +27 04	6/20/0
Observation Notes:	Seen solit @ 153x brely		9:15
	425x brings at yellowonine		<del>                                     </del>
/	and other shabire colors.		
12. M13/NGC 6207		16 41.7 +36.28	6/20/0
	nearby galaxy. Must see both		0:22
Observation Notes:	M13 well seen, resolved @		1
	elge. Nic C207 Smill alon		
	to nort mare 73x		<del>                                     </del>
<del>/</del>	Field		
13 NGC 6210	Blue Green Planetary Nebula in Hercules	16 44.5 +23 48	(biles
Observation Notes:	Bront arenal dal	720 40	10/21/05
0000. Valion 110.000.	w/ ro len ever at		111123
			<del>-  </del>
14. Cr 399	Star cluster shaped like a coat hanger	19 25.4 +20 11	G/27/3
Observation Notes:	EASY - BEAMER AS TEWAYS	†	15:10
Observation (votes.	SEEN IN 10X50 BINDER		10:76
	JEEP 10 TOX30 BINGE		
15. NGC 6960/6992	Veil Nebula in Cygnus - Must see both	6960- 20 45.7 +30 43	7/4/03
. <u>p. 11.00 000002</u>	sections.	6992-20 56.4 +31 43	3:450
Observation Notes:	CAN VERY TENVOYS MEAN	101 40	3.770
<u> </u>	52 Cya CONCE IT'S PUT OUT OF I	10 0 8 N C 6 992	
	NE WALLE FIELD - ALLWIN		<del>-</del>
-	FILTER	7322100	<del>                                     </del>
16. NGC 6826	Blinking Planetary Nebula in Cygnus	19 44.8 +50 31	Ch 2/2
Observation Notes:		†	1:25
		1 /	1163
	7. 20.00	blacks "	-
17. Satellites	Name of Satellite: (65005 807	11.4 5.51	6/2-12
Observation Notes:		4th mystode	6/20/3
observation notes.	tocket from near	Exsity seen by	9:58
	Mizar to ven & UM:	many others'	
10 1100 4505	Tidas an Chiral Calavy in Come Partices	10.000	1061
18. NGC 4565	Edge on Spiral Galaxy in Coma Bernices	12 36.3 +25 59	16/21/03
Observation Notes:	Seen, only about 1/2 usual		10:45
·	length in better shies		
	1	100 10 7	1212-1
19. Gamma Delphinius	Golden/White double star in Delphinius-In	20 46.7 +16 07	6/22/3
	the same view Struve 2725 a dim double,		1115
	Must see both doubles.	1	1

seen in some filld. Yis yellow and white, £2725 whites.

### Observing Log Object type: Open Cluster

	Obje	ect type: Open Cluster
Object ID:	Noe 6991 +1	c5076
	Cza	Observer Byant
	Dec.:	Date
Mag:	Size:	Time 2140
	1507	Location MCC
*		Seeing Transparency T
		Instrument XT-12
		Size 12
	• •	Eyepiece $2 \times 42$
\'.'	·	Field of view Power
•/		
<ul><li>What is</li><li>How ma</li></ul>	s the overall shape of the object?  any stars can you count in the cl	,
• Is this c	duster resolved fully or is there s	ome background nebulosity noticed?
• Is there	any particular area where you	notice an absence of stars in this cluster?
• Are the	re any particularly bright stars i	involved in this cluster? If so, do they show any colors? $\wedge$
Are the	re any other deep-sky objects in	the same field of view? If so, what?
	lesv	76 aroud 6m
Description		
(1900 Cale & De-		

7/3/3

Chawsu 33 + 34

BJECT	LOCATION RMCC HOME
lc. 4716 73X	Me 6992

	-Arso saw Victoria 73x From 73x	6/27 1110 am	`
<del>/</del>			
10.Comets	Must observe one comet	Coordinates for June 20	10/2/
Totolicia	Hint: Possible targets 116P/Wild 4 is in	116P- 15 02.99 -21 20.5	6/21/0
	Libra and Linear K4 is in Cygnus.	K4 - 21 03.50 +31 07.5	11,00
	RX14 in Western outskirts of Virgo	<del></del>	
	53P in Libra, 07 is in Leo	RX14 11 33.2 +02 33.4 53P 15 44.87 -09 27.2	
Observation Natural		53P 15 44.87 -09 27.2	<del></del>
Observation Notes:	Saw Vesta, no conets		<del></del>
	mange of 125mm W/The		
	Brony found in control VD	30 ~ 7m.	
	(With 5230 Vreukin)	١٠٠)	
	Double star of orange and blue in Bootes	14 44.59 +27 04	6/20/0
Observation Notes:	Seen split @ 153x barely		9:45
	4nx brings at yellow orange		
	and other shabire colors.		
12. M13/NGC 6207		16 41.7 +36.28	6/24/0
	nearby galaxy. Must see both		0155
Observation Notes:	M13 well seen resolvedie		
	elge. Noc 6307 Smill alow		
	to sout on some 23x		
	Beld		
13 NGC 6210	Blue Green Planetary Nebula in Hercules	16 44.5 +23 48	6/21/03
Observation Notes:	Bront greensh dish		11125
	w/ no detall ever at		11121
	han sever		
14. Cr 399	Star cluster shaped like a coat hanger	19 25.4 +20 11	G/27/3
Observation Notes:	EASY - BEALTEN AS TOWAYS		10:10
	SEEN IN 10X50 BINDER	<u> </u>	10.70
(N&C)	7027 70 70 70 70 70 70 70 70 70 70 70 70 70		
15. NGC 6960/6992	Veil Nebula in Cygnus - Must see both	6960- 20 45.7 +30 43	7/4/03
	sections.	6992- 20 56.4 +31 43	3:45
Observation Notes:	CAN VERY TENVOYS MEAN		13,770
	52 Cya CONCE IT'S PUT ONT OFF	10018 M-C 6992	_
	NE INPLICH MER - MINIS	73 V 8 MARIA	
	FILTER	732210000	
16. NGC 6826	Blinking Planetary Nebula in Cygnus	19 44.8 +50 31	C-12/2
Observation Notes:	Easy to fond near 16 Cyal		11243
	Larbles Blue-new Live "	7	1.60
		binks "	
17. Satellites	Name of Satellite: Cospos 807	4th masterde	6/20/3
Observation Notes:			
Subscrive (IOII INCIES.	Rochet from new	Exsity seen by	9:580
	Mizar to new & UM!	many others	<del>- </del> -
10 NCC 4565	Edge on Spiral Colovy in Come Berning	10.06.0	12 6. 1
18. NGC 4565	Edge on Spiral Galaxy in Coma Bernices	12 36.3 +25 59	6/21/00
Observation Notes:	Seen, only about 1/2 usual	· · · · · · · · · · · · · · · · · · ·	10172
· · · · · · · · · · · · · · · · · · ·	length in better shies		<b>—</b>
			121-1
	Golden/White double star in Delphinius-In	20 46.7 +16 07	6/22/3
	the same view Struve 2725 a dim double,		1115
	Must see both doubles.		
Observation Notes:	Both split well @ 73x while		
	seen in same field. Yis yellow and white, E2725 whites.	1	
The second second second	moin same there, is yellow	•	

Object type: Open Cluster Object ID: <u>N&C 6997</u> Observer B Your Const.: ____ Size: Time Location MCC Seeing Instrument XT12 Eyepiece 2× 4 2 Field of view Power 72 Can this cluster be easily distinguished from the background stars? What is the overall shape of the object? Hook over glow How many stars can you count in the cluster? Are the stars more concentrated in any one particular area?  $\sim$ Is this cluster resolved fully or is there some background nebulosity noticed? Is there any particular area where you notice an absence of stars in this cluster? No Are there any particularly bright stars involved in this cluster? If so, do they show any colors? Are there any other deep-sky objects in the same field of view? If so, what? Cyg show firely 7000 Description

**Observing Log** Object type: Open Cluster Object ID: NG 6997 Const.: Observer Date 10/14 Time 12:40 Size: Location MCC M I Seeing Transparency Instrument XTI2 Size_____12 Eyepiece 42 Field of view _____ Power _____ Can this cluster be easily distinguished from the background stars? What is the overall shape of the object?  $\bigcap_{\omega} \sqrt{c \choose m}$ How many stars can you count in the cluster? Are the stars more concentrated in any one particular area? Is this cluster resolved fully or is there some background nebulosity noticed? Is there any particular area where you notice an absence of stars in this cluster? The charge Are there any particularly bright stars involved in this cluster? If so, do they show any colors? 70, ble Are there any other deep-sky objects in the same field of view? If so, what? 5 months by 7000 Description

(1999 Cole & Pratt)

9

Obser	ving Log
Object type:	Cluster/Nebula

#2

, ·	NGC 7023 +0	
Const.:	Cep	Observer Bi Young
RA:	Dec.:	Observer B. Young Date 11/26/08
Mag:	Size:	
•		Location MCC
		Seeing Transparency T
		Instrument XT-12
	1900 p	Size 12
		Eyepiece 2X42
		Field of view Power
<b>\</b> .		
	4	
7		e seen with direct vision, or is averted vision required?  ect or is a simply irregular?
• Is any part	of the outer edge of the	nebula sharply defined? No
		any one particular area? How many stars are in the cluster?
Is the cluste	er embedded in the nebu	ulosity or is there a distinct separation?
Is any part	of the nebula brighter o	or more concentrated? Aromal cluster
<ul><li>Is there any</li></ul>	particular area where v	you notice an absence of stars in this cluster?
	•	
		entire ara
<ul> <li>Any suggest</li> </ul>	tions for observing this i	nebula (Le. filter, power) field of view, etc.)?
• Are there a	ny other deep-sky object	ets in the same field of view? If so, what? Each
Description	tiso Ca	Idwell 41 orner
	Well wort	the revisit.
	Taple	oright (very arrange stor @ 3)
(1999 Cole & Pratt)	0	
		335

Observing Log
Object type: Open Cluster

Object ID:		
volect m:	10,7	
Const.:	19	Observer 5 Yout
A: Dec	٠	Date 9/1/8
fag: Size	t#	Time 2.50
		Location MCC
		Seeing Transparency T
		Instrument XT12
/		Size <u>12</u>
		Eyepiece 2X Y 2
$\mathcal{E}_{\kappa}$	/	Field of view Power
•		
Can this cluster be eas	ihr dietingwisheit from	the background store?
		ine packground stars:
What is the overall sha	ipe of the object?	
How many stars can y	ou count in the cluster?	? 7
Are the stars more con	centrated in any one p	articular area?
	fully or is there some	ackground nebulosity noticed?
Is this cluster resolved		packground nebulosity neticed?
Is this cluster resolved  Is there any particular	area where you notice	an absence of stars in this cluster?
Is this cluster resolved  Is there any particular	area where you notice	an absence of stars in this cluster?
Is this cluster resolved  Is there any particular  Are there any particular	area where you notice	an absence of stars in this cluster?
Is this cluster resolved Is there any particular Are there any particular	area where you notice	an absence of stars in this cluster?
Is this cluster resolved  Is there any particular  Are there any particular	area where you notice arly bright stars involvecep-sky objects in the sa	an absence of stars in this cluster? In some [ wed in this cluster? If so, do they show any colors?  when the cluster in this cluster? If so, what?
Is this cluster resolved Is there any particular Are there any particular Are there any other de	area where you notice arly bright stars involvecep-sky objects in the sa	an absence of stars in this cluster? In some [ wed in this cluster? If so, do they show any colors?  where the colors is the cluster in this cluster? If so, what?
Is this cluster resolved Is there any particular Are there any particular Are there any other de	area where you notice arly bright stars involvecep-sky objects in the sa	an absence of stars in this cluster? In some [

336

Object ID: NGC 7042	- Grazy H2
Const.: Pea	Observer B. Yart
RA:	
Mag: Size:	Time   2:25 COT
	Location RMCC
	Seeing The Transparency T
	Instrument XT-12
	Size 12
	Eyepiece O
	Field of view Power 150×
• Can this nebula be seen with direct v	ision, or is averted vision required?
Is there an overall shape of the object	t or is it simply irregular? O. a. 1
, , ,	
•	ebula sharply defined? Not well
• Is any part of the nebula brighter or	more concentrated? No nucleus seen
• Is there any particular area where yo	ou notice an absence of stars in this cluster?
Are there any voids or dark natches	or lanes in the nebula? Any bright filaments or streamers?
• Is there an open cluster nearby or inv	volved or any obvious stars involved with this nebula?
• Any suggestions for observing this ne	bula (Le. filter, power, field of view, etc.)?
• Are there any other deep-sky objects	in the same field of view? If so, what?
Description	• • •

# Observing Log Object type: Open Cluster

1/2

	V
Object ID: <u> </u>	<del>-</del>
Const.: Cya	Observer Bond Young
RA: Dec.:	Date
Mag: Size:	
	Location Adams March
	Seeing Transparency
	Instrument X - 12
	Size <u>12</u>
	Eyepiece 42
	Field of view Power
	·
Can this cluster be easily distinguished if	from the background stars?
<ul><li>What is the overall shape of the object?</li></ul>	W42
How many stars can you count in the cli	uster? 50
Are the stars more concentrated in any co	one particular area? 🔊 🖊
<ul> <li>Is this cluster resolved fully or is there so</li> </ul>	
<ul> <li>Is there any particular area where you n</li> </ul>	notice an absence of stars in this cluster? $N_{\circ}$
Are there any particularly bright stars in	nvolved in this cluster? If so, do they show any colors? $\gamma e_{\gamma}$
·	the same field of view? If so, what? M39 40
and only adop any objects in	and damp note of views in polynamic 1 (1) ( 1-9 C
Description	
<del></del>	

# Observing Log Object type: Open Cluster

bject ID: <u>NGC 7082</u>	
onst.:	Observer Bal Yam
A: Dec.:	Date 10/10/7
Tag: Size:	Time 2:30
	Location Adms Anch
	Seeing I Transparency II
	Instrument XT12
	Size 12
	Eyepiece 42
	Field of view Power
Can this cluster be easily distinct What is the overall shape of the How many stars can you countered the stars more concentrate.	t in the cluster? 100
Is this cluster resolved fully or	is there some background nebulosity noticed? My
Is there any particular area wl	here you notice an absence of stars in this cluster? $\mathcal{N}_{\mathfrak{I}}$
Are there any particularly bris	ght stars involved in this cluster? If so, do they show any colors? 📈
	objects in the same field of view? If so, what? M39 LW
escription	

	Observing Log Object type: Cluster/Nebula
Object ID: NGC 712	29 H 2
Const.: Cep	
RA: Dec.:	
Mag: Size:	
	Location (MCC
	Seeing Transparency T
	Instrument XT-12
•	Size
	Eyepiece 2× 42
	Field of view Power
<u>₩</u>	
• Can both the cluster and net	oula be seen with direct vision, or is averted vision required?
• Is there an overall shape of the	ne object or is it simply irregular?
• Is any part of the outer edge	of the nebula sharply defined? Some what
	ted in any one particular area? How many stars are in the cluster? $8 - 10$
	e nebulosity or is there a distinct separation?
<ul> <li>Is any part of the nebula brig</li> </ul>	ther or more concentrated? New Star on edge
• Is there any particular area v	where you notice an absence of stars in this cluster? $N_{\circ}$
Are there any voids or dark	patches, or lanes in the nebula? Any bright filaments or streamers? No
Any suggestions for observing	g this nebula (Le. filter, power, field of view, etc.)?

Are there any other deep-sky objects in the same field of view? If so, what?

Description ____

### Observing Log Object type: Planetary Nebula

ψ. <b>1</b>	HZ
•	Observer BIYOM
J	Date 11/26/8
1	Time 11:20 CST
1	Location MCC
8	Seeing I Transparency I
J	Instrument XT-12
5	Size 12
J	Eyepiece 10
I	Field of viewPowerPower
_	+OID Filter
ear	zance?
bris	ghtness as the edges?
`	filter power, field of view, etc.)?
e sai	me field of view? If so, what?
tz	~?

Object	t type. Galaxy
Object ID: NG-C 7156	"1 —
Const.:	Observer Bryont
RA: Dec.:	Date 11/3/7
Mag: Size:	Time 11145 COT
	Location CM CC
	Seeing I Transparency I
	Instrument XT-12
	Size 1
	Eyepiece
	Field of view Power
• Can this galaxy ha span with direct vision	
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape? Om	
• Is a core noticeable? 51.7h	
• Is the core compact of stellar?	
• Can any detail be seen between the core an	d the outer envelope of the object? Some had
Are the edges of the outer envelope sharp o	
	iter envelope (bright or dark patches or lanes)?
<ul> <li>Are there any other deep-sky objects in the</li> </ul>	same field of view? If so, what?
Description	

Object ID: NGC 7171	
Const.:	Observer 8 70M
RA: Dec.:	Date 10/9/7
Mag: Size:	Time 9:20
	Location A L
	Seeing Transparency F
	Instrument XT-12
	Size 12
	Eyepiece ) O
	Field of view Power 150
	255
• Can this galaxy be seen with direct vision, a	r is averted vision required?
• What is the overall shape?	
• Is a core noticeable?	
• Is the core compact or stellar? Nye -	10.1
Can any detail be seen between the core and	the outer envelope of the object? V6
• Are the edges of the outer envelope sharp or	diffuse?)
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)?
Are there any other deep-sky objects in the	
and any outside a sop only objects in the	same neid of view: It so, what:
Description Fiell great	to fond or
(1999 Cole & Pratt)	

		۰
Object type:	Galaxy	,

Const.:   Co	Object ID: NG-C 7\77	H2
RA:	*	Observer B. Youk
Location OT Seeing TT Transparency T Instrument XT 12 Size 12 Eyepiece 47 × 2 Field of view Power T   • Can this galaxy be seen with direct vision, or is averted vision required?  • What is the overall shape? ( ) • Is a core noticeable? ( ) • 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?  • 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? ( ) • Are there any other deep-sky objects in the same field of view? If so, what? ( ) • Are there any other deep-sky objects in the same field of view? If so, what? ( )	· <i>J</i>	
Seeing	Mag: Size:	
Instrument		Location O +
Size		Seeing Transparency T
Eyepiece		Instrument XT12
Field of viewPower		Size12
<ul> <li>Can this galaxy be seen with direct vision, or is averted vision required?</li> <li>What is the overall shape? ( )</li> <li>Is a core noticeable? ( )</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object? ( )</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? ( )</li> <li>Are there any other deep-sky objects in the same field of view? If so, what? ( )</li> </ul>	***	Eyepiece 42x2
<ul> <li>What is the overall shape? ( )</li> <li>Is a core noticeable? ( )</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object? ( )</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? ( )</li> <li>Are there any other deep-sky objects in the same field of view? If so, what? ( )</li> </ul>		Field of view Power
<ul> <li>What is the overall shape? ( )</li> <li>Is a core noticeable? ( )</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object? ( )</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? ( )</li> <li>Are there any other deep-sky objects in the same field of view? If so, what? ( )</li> </ul>		
<ul> <li>What is the overall shape? ( )</li> <li>Is a core noticeable? ( )</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object? ( )</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? ( )</li> <li>Are there any other deep-sky objects in the same field of view? If so, what? ( )</li> </ul>		
<ul> <li>What is the overall shape? ( )</li> <li>Is a core noticeable? ( )</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object? ( )</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)? ( )</li> <li>Are there any other deep-sky objects in the same field of view? If so, what? ( )</li> </ul>		
<ul> <li>Is a core noticeable?</li> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object?</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?</li> <li>Are there any other deep-sky objects in the same field of view? If so, what?</li> </ul>	• Can this galaxy be seen with direct vision,	y is averted vision required?
<ul> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object?</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?</li> <li>Are there any other deep-sky objects in the same field of view? If so, what?</li> </ul>	• What is the overall shape? Road	
<ul> <li>Is the core compact or stellar?</li> <li>Can any detail be seen between the core and the outer envelope of the object?</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?</li> <li>Are there any other deep-sky objects in the same field of view? If so, what?</li> </ul>	• Is a core noticeable?	
<ul> <li>Can any detail be seen between the core and the outer envelope of the object?</li> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?</li> <li>Are there any other deep-sky objects in the same field of view? If so, what?</li> </ul>	ARIA.	
<ul> <li>Are the edges of the outer envelope sharp or diffuse?</li> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?</li> <li>Are there any other deep-sky objects in the same field of view? If so, what?</li> </ul>		d the outer equalors of the abit of the
<ul> <li>Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?</li> <li>Are there any other deep-sky objects in the same field of view? If so, what?</li> </ul>	utte	
• Are there any other deep-sky objects in the same field of view? If so, what?	Carretin	
	• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)? 🦯
Description	• Are there any other deep-sky objects in the	same field of view? If so, what? <table-cell></table-cell>
Description		
	Description	
(1999 Cole & Pratt)	(1900 Cata e Tarus)	

Object type: Galaxy Object ID: <u>NGC</u> 7184 Const.: Agy RA: _____ Dec.: ____ Mag: Size: Location A. May Transparency T Seeing Instrument XT-12 Size______ |2 Eyepiece 10 Field of view _____ Power ___ 150 Can this galaxy be seen with direct vision or is averted vision required? What is the overall shape? Is a core noticeable? Is the core compact or stellar? Can any detail be seen between the core and the outer envelope of the object? Some no lamb Are the edges of the outer envelope sharp or diffuse? Not really seen 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? No, by Description Part of grave of 4/ree 7180 27185 7186) (1999 Cole & Pratt)

Object ID: NGC 7218	
Const.:	Observer By young
RA: Dec.:	Date 10/10/7
Mag: Size:	Time
	Location A. Manch
	Seeing Transparency T
	Instrument XT 17
	Size \Z
	Eyepiece O
	Field of view Power 150
	ı
• Can this galaxy be seen with direct vision, or	is averted vision required?
What is the overall shape? Now.	
• Is a core noticeable? Ye>	
Is the core compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the object? Some while
Are the edges of the outer envelope sharp or	
<ul> <li>Can any detail or mottling be seen in the out</li> </ul>	er envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the s	ame field of view? If so, what?" ? 5 2 5 2003
Description	

# Observing Log Object type: Open Cluster

Const.:	Cep		Observer	B You	N	
	Dec.:		Date	7/23/6	<u> </u>	
Лад:	Size:		Time	2120 0	DT	
			Location	RMCC		·
			Seeing	Tra	ansparency .	<u> </u>
	•		Instrument _		2	
		. 1	Size	12	·····	
šū.;	***		Eyepiece	42		
	<b>:</b>	<b> </b>	Field of view		Power_	38
					***************************************	
77				**************************************		
7245		<b>/</b> .	***************************************			
•	star ha carily di	ctinemiched from	the backgroun	d store?	) <i> </i>	
Can this clu		stinguished from		d stars?	) _K	
Can this clu		stinguished from		d stars?	)K	
Can this clu What is the	overali shape o		Lump	d stars?	)K	
Can this clu What is the How many	overall shape o	f the object? Co	Limp 19 G	·	)K	
Can this clu What is the How many:	overall shape of stars can you co s more concent	f the object? Count in the clusterated in any one	r? ( particular area?	! No		
Can this clu What is the How many: Are the star	overall shape of stars can you co s more concent	f the object? Co	r? ( particular area?	! No		
Can this clu What is the How many: Are the star	overall shape of stars can you co s more concent er resolved fully	f the object? Count in the clusterated in any one	r? ( particular area? background ne	$\sim_{\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	ticed?	$\mathcal{N}_{o}$
Can this clu What is the How many: Are the star Is this cluste	overall shape of stars can you co s more concent er resolved fully particular area	the object? Count in the clusterated in any one or is there some where you notice	particular area? background nel	P ∼o bulosity not stars in this	ticed? s cluster?	
Can this clu What is the How many: Are the star Is this cluste Is there any Are there are	overall shape of stars can you constars can you constant areason of the start of th	the object? Count in the clusterated in any one or is there some where you notice bright stars involved	particular area? background nel ce an absence of lived in this clust	bulosity not stars in this	ticed? s cluster? to they show	
Can this clu What is the How many: Are the star Is this cluste Is there any Are there ar	overall shape of stars can you constars can you constant areasolved fully particular areasony particularly by their deep-sites.	the object? Count in the clusterated in any one or is there some where you notice bright stars invoky objects in the	particular area? background nel ce an absence of lved in this clust same field of vice	bulosity not stars in this ter? If so, d	ticed? s cluster? o they show what?	
Can this clu What is the How many: Are the star Is this cluste Is there any Are there ar	overall shape of stars can you constars can you constant areasolved fully particular areasony particularly by their deep-sites.	the object? Count in the clusterated in any one or is there some where you notice bright stars involved	particular area? background nel ce an absence of lved in this clust same field of vice	bulosity not stars in this ter? If so, d	ticed? s cluster? o they show what?	

Object ID:	NGC 7332/13	30 HZ	
	Reg	Observer B. York	
	Dec.:	Date 11/4/7	
Mag:	Size:	Time 1\15 COT	
		Location CMCC	
		Seeing Transparency T	•
		Instrument XT-12	•
		Size \Z	
• •		Eyepiece \O	• .
1		Field of view Power	
<ul><li>Is there an</li><li>Are there a</li><li>Is there an</li></ul>	y particular area where you any voids or dark patches, o open cluster nearby or invo	or is it simply irregular?  elong  bula sharply defined?  for so elong  note concentrated?  ye, - 5)ellong  notice an absence of stars in this cluster?  or lanes in the nebula? Any bright filaments or streamers?  Mod detail to e  olved or any obvious stars involved with this nebula?  oula (I.e. filter, power, field of view, etc.)?  Both  in the same field of view? If an absence	Not Ther
• Are there a	any other deep-sky objects i	m the same need of view: If so, what?	spra
(1999 Cole & Prati)		3	48

#### Planetary Nebula Club **Observing Log**

Observer's name: ____ B Yow

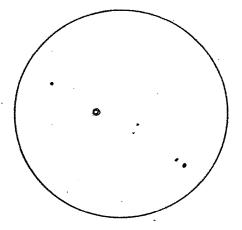
Object: NGC 73.74	Location: CMCC
Date: 7/7/7	Time: 12:30 AM CDT
Seeing:	Transparency: TI
Darkness of the site: B2	Moon phase: LQ
Aperture and focal ratio:	Magnification(s) used:
L_12° C/K	37,150
Device-aided? No	Color(s) seen:
Filters used:	Is filter required to detect the PN?
OT	No, by OT help)
Is the central star visible?	Direct or averted vision?

How does the planetary respond to different magnifications?

Seen 372 but use 150x

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

Small disk, seems to hake a hole on middle



Verified 7/8/7 1:10 mm - some views

~ DOQ.	, , , , ,	5	200
Object 1	vpe:	G	alaxy

#2

	$\mathcal{L}_{\mathcal{L}}$
Object ID: NG-C 7377	en de la companya de La companya de la co
Const.:	Observer B Young
RA: Dec.:	Date10/10/7
Mag: Size:	Time \\1140
	Location A. Carch
	Seeing Transparency I-
	Instrument 🔍 🧹
	Size \2
	Eyepiece O
	Field of view Power 50
•	
	<u>*:</u>
• Can this galaxy be seen with direct vision	or is averted vision required?
What is the overall shape?	- 1865
4	
• Is a core noticeable? $\langle c \rangle$	
• Is the core compact or stellar?	
• Can any detail be seen between the core a	and the outer envelope of the object?
Are the edges of the outer envelope sharp	
• 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	ne same field of view? If so, what?
	, ,
<b>Description</b>	
(1999 Cole & Prati)	

Object ID: MK 7392	<u></u>
Const.:	Observer B. Young
RA: Dec,:	
Mag: Size:	Time \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Location Adm March
	Seeing Transparency I-
	Instrument XT-12
•	Size
	Eyepiece O
	Field of view Power 100
• Can this galaxy be seen with direct visi	on or is averted vision required?
What is the overall shape?	evlar
• Is the core compact or stellar?	•
• Can any detail be seen between the cor	re and the outer envelope of the object? I we would
• Are the edges of the outer envelope sha	urp or diffuse?
Can any detail or mottling be seen in the seen in	he outer envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in	the same field of view? If so, what? \(\mathcal{\sigma}_{\sigma}\)
Description	
<b>Description</b>	
(1999 Cale & Pratt)	

### Observing Log Object type: Open Cluster

oject ID: NFC 7 L	2
onst.:	Observer By YOM
A: Dec.: _	Date 11/26/8
ag: Size:	•
	Location RMCC
	Seeing I Transparency I
	Instrument XT-12
•	Size 12
	Eyepiece 2x42
	Field of view Power
	listinguished from the background stars? Yes
What is the overall shape of the How many stars can you concentrate the stars more concentrate.	of the object? Clump + 1 mes  ount in the cluster? 25 75h  trated in any one particular area? New 8m 8mm
What is the overall shape of the How many stars can you can have the stars more concentrated in this cluster resolved full	of the object? Clung + lines  ount in the cluster? 25 15h  trated in any one particular area? New 8m 5m  y or is there some background nebulosity noticed?
What is the overall shape of How many stars can you concentrate the stars more concentrate this cluster resolved full is there any particular are	ount in the cluster? 25 75h  trated in any one particular area? ~e~ 8 m 5 m  y or is there some background nebulosity noticed?  a where you notice an absence of stars in this cluster? No
What is the overall shape of How many stars can you concentrate the stars more concentrate this cluster resolved full is there any particular are	of the object? Clung + lines  ount in the cluster? 25 15h  trated in any one particular area? New 8m 5m  y or is there some background nebulosity noticed?
What is the overall shape of the Many stars can you of Are the stars more concentrated in the stars are any particular are Are there any particularly	ount in the cluster? 25 75h  trated in any one particular area? New 8m 50m  y or is there some background nebulosity noticed?  a where you notice an absence of stars in this cluster?
What is the overall shape of How many stars can you of Are the stars more concentrated in the stars are any particular are Are there any particularly	ount in the cluster? 25 75h  trated in any one particular area? ~e~ 8 m 5 m  y or is there some background nebulosity noticed?  a where you notice an absence of stars in this cluster? No  bright stars involved in this cluster? If so, do they show any colors?
What is the overall shape of How many stars can you con Are the stars more concentrated in th	ount in the cluster? 25 75h  trated in any one particular area? ~e~ 8 ~ 5 ~~  y or is there some background nebulosity noticed?  a where you notice an absence of stars in this cluster? ~o  bright stars involved in this cluster? If so, do they show any colors?
What is the overall shape of How many stars can you contain Are the stars more concentrated is this cluster resolved full. Is there any particular are Are there any particularly Are there any other deep-	ount in the cluster? 25 15h  trated in any one particular area? New 8m 5m  y or is there some background nebulosity noticed?  a where you notice an absence of stars in this cluster? No  bright stars involved in this cluster? If so, do they show any colors?  sky objects in the same field of view? If so, what?
What is the overall shape of How many stars can you concentrate the stars more concentrated in this cluster resolved full. Is there any particular are there any particularly are there any other deep-	ount in the cluster? 25 75h  trated in any one particular area? New 8m 5m  y or is there some background nebulosity noticed?  a where you notice an absence of stars in this cluster? No  bright stars involved in this cluster? If so, do they show any colors?  sky objects in the same field of view? If so, what?

Object ID: NOC 7457	H2
Const.: Peg	Observer 3, Your
RA: Dec.:	Date 9/29/8
Mag: Size:	Time 2:30 N
	Location Ohie Tex
	Seeing II Transparency II
	Instrument XT-12
	Size12_
	Eyepiece 42 mm
	Field of view Power 36×
• Are there any other deep-sky objects in the	the outer envelope of the object? \( \square\) diffuse? ter envelope (bright or dark patches or lanes)? \( \square\) same field of view? If so, what? \( \square\)
<b>Description</b>	
(1999 Cole & Pratt)	The second secon

		Observing Log
Object ID: _	Noc 2463/7	Object type: Nebula  M65  Galaxy  HZ
Const.:	Pea	Observer B. YOUNG
RA:	Dec.:	Date 11/4/7
Mag:	Size:	Time 12:45 Co5
		Location RMCC
		Seeing I Transparency I
2163		Instrument XT-12
<b>'</b>		Size \\2
- (		Eyepiece
- 1		Field of view Power
		7465
<ul><li>Is there a</li><li>Is any pa</li><li>Is any pa</li><li>Is there a</li></ul>	an overall shape of the object art of the outer edge of the part of the nebula brighter of any particular area where y	ect or is it simply irregular? 7463 clong, 7465 condect or is it simply irregular? 7463 clong, 7465 condect or is it simply defined? No, a bit or more concentrated? No nuc, sharp Confect nucleon notice an absence of stars in this cluster?
• Is there:	an open cluster nearby or i	nvolved or any obvious stars involved with this nebula?
Any sugg	gestions for observing this i	nebula (I.e. filter, power, field of view, etc.)?
Are there	e any other deep-sky obiec	ts in the same field of view? If so, what? Each or her
•		

Object type: Galaxy HZ Object ID: NGC 7707 Observer Bal Your Const.: RA: _____ Dec.: ____ Time 12:00 Mag: _____ Size: ____ Location Adam Manch I Transparency I-Seeing Instrument XT12 Size 12 Eyepiece _____ | o Field of view _____Power__\800 Can this galaxy be seen with direct vision, or is averted vision required? What is the overall shape? Is a core noticeable? 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? Can any detail or mottling be seen in the outer envelope (bright or dark patches or lanes)?  $\mathcal{L}_{\mathbf{b}}$ Are there any other deep-sky objects in the same field of view? If so, what? Description _____

(1999 Cole & Pratt)

the

Object TO NGC 7541	n C
Object ID: N6-C 7541  Const.:	Observer 3: Your  Date 11/3/7  Time 10! 15 cor  Location CMCC  Seeing Transparency D
	Instrument X5-12 Size 12 Eyepiece 10
	Field of viewPower
<ul> <li>Can this galaxy be seen with direct vision,</li> <li>What is the overall shape?</li> <li>Is a core noticeable?</li> <li>Is the core compact or stellar?</li> </ul>	2 sets
<ul> <li>Can any detail be seen between the core an</li> <li>Are the edges of the outer envelope sharp of</li> </ul>	d the outer envelope of the object? No -employees
<ul> <li>Can any detail or mottling be seen in the or</li> <li>Are there any other deep-sky objects in the</li> </ul>	uter envelope (bright or dark patches or lanes)? \( \infty \)
Description	
(1999 Cole & Pratt)	

Object	erving Log t type: Galaxy
Object ID: NGC 7532/18/75	×7 +
Const.:	Observer B. Your
RA: Dec.:	Date
Mag: Size:	Time 10:50 cos
253	Location RMCC
18th	Seeing Transparency T
	Instrument Xr-12
	Size
	Eyepiece 10
	Field of viewPower150
	2,
• Can this galaxy be seen with direct vision,	or is averted vision required?
• What is the overall shape? 7882 ell	y A spor 7557 and
• Is a core noticeable? 7562 7es	other so
• To the come comment on stellang 202	ophus no
• Is the core compact or stellar? 7562	
• Can any detail be seen between the core ar	
Are the edges of the outer envelope sharp of	r diffuse?
	uter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	e same field of view? If so, what?
Description	•
Description	
(1999 Cole & Pratt)	

H2

Object ID: NGC 7600	
Const.:	Observer Bral 4 ans
RA: Dec.:	Date 10/11/17
Mag: Size:	Time
	Location Almand
	Seeing <u>T</u> - Transparency <u>T</u> -
	Instrument X72
	Size\2_
	Eyepiece 10
	Field of view Power
	ANG.
• Can this galaxy be seen with direct vision, o	r is averted vision required?
• What is the overall shape? New	
• Is a core noticeable?	
Is the core compact or stellar?	
Can any detail be seen between the core and	the outer envelope of the object??
<ul> <li>Are the edges of the outer envelope sharp or</li> </ul>	diffuse?
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)? \square
Are there any other deep-sky objects in the s	same field of view? If so, what?
and the second state of th	300, 1000
<b>Description</b>	

	type. Galaxy
Object ID: Noc 7619 7623/7	6C HZ
Const.: les + NLC7699	Observer 3 your
RA: Dec.:	Date 11/4/7
Mag: Size:	Time 2100 COT
7603	Location (MCC
	Seeing Transparency 1
1:	Instrument KT-N
	Size 12
	Eyepiece 10
	Field of view Power
7.05	
• Can this galaxy be seen with direct vision, or	is averted vision required?
• What is the overall shape?	
• Is a core noticeable? All 7e	
• Is the core compact or stellar?	
Can any detail be seen between the core and	- 00
Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)?   /
Are there any other deep-sky objects in the s	er envelope (bright or dark patches or lanes)?
	osher
<b>Description</b>	wow!
(1999 Cole & Pratt)	

Observer Signature Size 12  Eyepiece 2x42  Field of view Power 77  ision, or is averted vision required?
Time 2:40 COT  Location Adms
Location Adms March  Seeing II Transparency II —  Instrument XT — 12  Size 12  Eyepiece 2x 42  Field of view Power 77  ision, or is averted vision required?
Instrument XT-12 Size 12 Eyepiece ZX 42 Field of view Power 77  ision, or is averted vision required?
Size 12  Eyepiece 2x 42  Field of view Power 77  ision, or is averted vision required?
Eyepiece
Field of viewPower
ision, or is averted vision required?
nore concentrated? New 5m
u notice an absence of stars in this cluster?
or lanes in the nebula? Any bright filaments or streamers?
olved or any opvious stars involved with this nebula?
bula (I.e. filter, power, field of view, etc.)?
in the same field of view? If so, what?

Object ID: NG-C 7640		
Const.:	Observer B YONG	
RA: Dec.:	Date 8/31/8	
Mag: Size:	Time 11:35 pm COT	
	Location RMCC	
	Seeing Transparency T	
	Instrument XT-12	
	Size 2	
	Eyepiece 42x2	
	Field of view Power 72x	
• Can this galaxy be seen with direct vision, or	is averted vision required?	
• What is the overall shape? Lne/bn		
• Is a core noticeable? Some what		
• Is the core compact or stellar?		
	the outer envelope of the object? 13+5~	
• 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)? Ahm		
Are there any other deep-sky objects in the sales.	ame field of view? If so, what?	
Description	64 7662 realy	
Description		
Manager & A. P. J.		

Object ID: NGC 7742	n C
Const.: Pes	Observer_B, YOWA
RA: Dec.:	
Mag: Size:	Date 17 17 17 17 17 17 17 17 17 17 17 17 17
Niag. Size:	Time 12:10 cf
	Location MCC
	Seeing Transparency T
	InstrumentXT-12
	Size 12
	Eyepiece
" /	Field of view Power
• Can this galaxy be seen with direct vision or	r is averted vision required?
• What is the overall shape?	-au-y
· ·	
• Is a core noticeable?	
• Is the core compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the chicat?
Forly	
• Are the edges of the outer envelope sharp of	diffuse?
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)? 🥡
Are there any other deep-sky objects in the s	
and the same deep say esgent in the s	ame field of view? It so, what?
<b>Description</b>	
(1999 Cole & Pratt)	

### Observing Log Object type: Open Cluster

Object ID: NGC 7762	sjeer sjeer ermoor	42
Const.: Ce,	Observer B 1	10 W
RA: Dec.:		19
Mag: Size:		0 82
	Location CM	•
		Transparency
	Instrument 📉 🧡 🕆	•.
	Size 12	
	Eyepiece 2×	
	Field of view	Power
How many stars can you count in the Are the stars more concentrated in a	ny one particular area? Lme	· · ·
Is this cluster resolved fully or is ther	e some background nebulosity n	oticed?
Is there any particular area where yo	ou notice an absence of stars in the	ıis cluster? No
Are there any particularly bright sta	rs involved in this cluster? If so,	do they show any colors?
Are there any other deep-sky objects	in the same field of view? If so,	what? %
Description KC confirm	nel	

Object ID: NG-C 7785	
Const.: Psc	Observer B 40 mb
RA: Dec.;	Date 9/1/8
Mag: Size:	Time 12140
	Location MCC
	Seeing Transparency T
	Instrument & 17
<b>@</b>	Size \2
	Eyepiece 2x42
	Field of viewPower_72&
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape?	
• 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? Vo
• Are the edges of the outer envelope sharp or	diffuse?
Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)?
<ul> <li>Are there any other deep-sky objects in the s</li> </ul>	ame neid of view? If 30, what?
Description	

Object ID:	H2
Const.:lsc	Observer B. Your
RA: Dec.:	Date 11/3/7
Mag: Size:	Time
	Location CACE
	Seeing Transparency T
	Instrument KT-12
	Size 12
	Eyepiece 10
	Field of view PowerPower
• Can this galaxy be seen with direct vision, or	r is averted vision required?
• What is the overall shape? Non-	
• Is a core noticeable?	
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?
• Can any detail or mottling be seen in the out	er envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the s	
Description Mee Leeld	
(1999 Cole & Pratt)	

Object ID: NGC 7814	•
Const.:	Observer 8 40ml
RA: Dec.:	Date 9/1/8
Mag: Size:	Time 12135
	Location (MC(
	Seeing Transparency T-
	Instrument XT12
	Size
ν	Eyepiece 2x 42
	Field of view Power
• Can this galaxy be seen with direct vision,	r is averted vision required?
• What is the overall shape? ("+	Spack"
• Is a core noticeable?	· prod
- As a core noticeable:	
Is the core compact or stellar?	
• Can any detail be seen between the core and	the outer envelope of the object? Some hour
Are the edges of the outer envelope sharp or	
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	same field of view? If so, what? ೂ
- 14 0 - 5 -	2 m/a 1100 cm
Description What is > 520	~?= +1/C 1178-579-1 9,9m

Object ID: NGC 783L	
Const.: Psc	Observer_ B. Your
RA: Dec.:	Date 11/3/7
Mag: Size:	Time  0100 COT
	Location
	Seeing Transparency T
	Instrument XT_12
	Size\Z
with the second	Eyepiece 10
	Field of viewPower
•/	
<ul> <li>Can this galaxy be seen with direct vision, o</li> <li>What is the overall shape?</li> </ul>	or is averted vision required?
• 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? Yes, some
Are the edges of the outer envelope sharp or	iffuse? Yes, some
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	
Description	
(1999 Cole & Pratt)	

		ject type: Galaxy
Object ID:	NGC 23	——————————————————————————————————————
Const.:	NGC 23 Peg	Observer B. Your
	Dec.:	
Mag:	Size:	Time 5:30 UT
		Location Oute-Tex
		Seeing Transparency T
		Instrument $XT-12$
	ii.	Size 12
		Eyepiece 2x42
		Field of viewPower
and the same		
and the second		
• Can this gai	laxy be seen with direct visio	h, or is averted vision required?
• What is the	overall shape?	2~1
• Is a core no	ticeable?	
• Is the core of	compact or stellar?	
Can any de	ian de seen detween the core	and the outer envelope of the object?
• Are the edge	es of the outer envelope shar	por diffuse?
• Can any def	tail or mottling be seen in the	e outer envelope (bright or dark patches or lanes)? 🍊
• Are there ar	ny other deep-sky objects in	the same field of view? If so, what? $ oldsymbol{ oldsymbol{o}} $
*	SEED	
Description	BETWEEN	1156 & 1207 - 10'0 4/23/09 (From own)
		(From owa)
		the mark with the second
		MGC 1003, WHICH WAJALSO SEEN, OVER IN PERSON (SEE
(1999 Cole & Pratt)		SEEN, OVER IN PERISON (SEE
		(ACC 372)
		368

Object ID: NGC 2493	H2
Const.: Lyo	Observer 0. Your
RA: Dec.:	Date 12/28/08
Mag: Size:	Time 9:45
	Location CMCC
. \	Seeing Transparency T
	Instrument XT-12
· 186	Size12
	Eyepiece 2X42
	Field of view Power
<ul> <li>Can this galaxy be seen with direct vision,</li> <li>What is the overall shape?</li> </ul>	r is averted vision required?
• Is a core noticeable?	
• 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?
• Can any detail or mottling be seen in the out	ter envelope (bright or dark patches or lanes)? ん。
• Are there any other deep-sky objects in the	name field of view? If so, what?
Description Arrowed Star	'fvry" -?
(1999 Cale & Prost)	

Object ID: NGC 2500	H2
Const.: Lyo	Observer B. 40mc
RA: Dec.:	Date 12/28/08
Mag: Size:	Time 9155
	Location RMCC
	Seeing I Transparency I
	Instrument XT-12
€	Size 12
	Eyepiece 2x42
	Field of view Power
<ul> <li>Can this galaxy be seen with direct vision, or</li> </ul>	er is averted vision required?
<ul> <li>What is the overall shape? (land)</li> </ul>	
• Is a core noticeable? No	
Is the core compact or stellar?	
Can any detail be seen between the core and	f the outer envelope of the chiest? A ho
Are the edges of the outer envelope sharp or	diffuse?
• Can any detail or mottling be seen in the ou	ter envelope (bright or dark patches or lanes)?
• Are there any other deep-sky objects in the	same field of view? If so, what? No
Description	
(1999 Cole & Proff)	

Object ID: NGC 2541	1+2
Const.: Lyn	Observer Bryont
RA: Dec.:	Date 12/28/08
Mag: Size:	Time
	Location MCC
	Seeing I Transparency I
. \	Instrument XT-12
	Size 12
	Eyepiece 2X42
` /	Field of view Power
Are there any other deep-sky objects in the s	the outer envelope of the object? \( \subseteq \circ}  diffuse?  ter envelope (bright or dark patches or lanes)? \( \subseteq
(1909 Cale & Benda	

### **OBSERVATION LOG**

	NAME	DATE	INSTRUMENT	STEING	OBJECT NAME		
1	BIYOM	10/2/8	XT-12	H	NGC 1003		
1	SITE	TIME	POWER	TRANSPARENCY	CONSTELLATION		
1	DKIE-TEX	16 V	.75	Ŧ	Per		
1	DESCRIPTION						
	Notes indicate it was seen as a small oval						
	glow I/no details - no drawing madeor lost.						

NAME	DATE	Instrument	SEEING	OBJECT NAME
Byon	4/16/7	XT-12	工	NGC 3573
SITE	TIME	POWER	TRANSPARENCY	CONSTELLATION
RMCC	NIAM	36×	士	Crt
DESCRIPTION				
See p. 146-3513 seen in field w/3511, Misnambered				
bosh as 361123613. No drawing mule or lost.				

NAME	DATE	Instrument	SEEING	OBJECT NAME
SITE	TIME	POWER	TRANSPARENCY	CONSTELLATION
		DESCRIPTION		

NAME	DATE	PISTRUMENT	SECONG	OBJECT NAME
SIE	TIME	POWER	TRANSPARENCY	CONSTILLATION
		DESCRIPTION		