Name	Туре	RA	Dec	Size	VMag	Con
IC 0059	E+R	00 56.7	+61 04	10x5		Cas
	faint reflection nebula	20' N of Gamma C	assiopeia with IC	C 63 20' SE.		
Ellis-Grayson-Bond 1	PN	01 07.2	+73 33	300"x180"		Cas
	challenging planetary	involved with a gro	up of faint stars.	Use an OIII filter.		
Simeis 22	PN	01 30.7	+58 23	10x3		Cas
	large, low surface brig	htness glow in a ric	ch milky way field	d. Confirm with an OII	l filter.	
Heckathorn-Fesel-Gull 1	PN	03 03.8	+64 54	523"	12	Cas
	extremely low surface	brightness, huge a	incient planetary			
Q0957+561	QSR	10 01.3	+55 54		16.5	UMa
	gravitationally lensed from NGC 3079.	twin quasars (comp	onents 16.5-16.	7 magnitude separate	ed by 6") just 15	' NNW
UGC 5459	GX-SBc	10 08.2	+53 05	4.8x0.7	12.6	UMa
	this extremely narrow	-		ance as it hangs from	a mag 8.5 star	
HCG 56	GX-Chain	11 32.6	+52 57	1.1x0.3		UMa
	challenging interconne					
NGC 3172	GX-SA0	11 47.3	+89 06	0.7x0.7	13.6	UMi
	this is the closest NG0	-				_
UGC 7321	GX-Sd	12 17.6	+22 32	5.5x0.4	13.4	Com
	this is one of the thinn	-	· -	•		
Mrk 205	GX-Sy	12 21.7	+75 19	Stellar	14.5	Dra
	this Seyfert galaxy ap due to possible bridge	and discordant red	dshift.			-
IC 972	PN	14 04.4	-17 14	43"x40"	13.6	Vir
	relatively easy but little	-	-			
UGC 9242	GX-Sd	14 25.3	+39 32	5.0x0.3	13.5	Boo
	super-thin ghostly stre		· ·			
Palomar 5	GC	15 16.1	-00 07	6.9	11.8	Ser
	extremely low surface			-		
Corona Borealis GX Cluster	GXCL	15 22.7	+27 43	30	15.6	CrB
10.4440	distant and challengin	-		-	-	
IC 1116	GXCL	15 21.9	+08 25	1.6x1.6	12.8	Ser
	brightest member of ri two dozen small, faint	galaxies are visible	e in the region.		. •	•
IC 4553	GX-S	15 35.0	+23 30	1.5x1.2	13.2	Ser
	considered the prototy interacting double sys				ed. This is an	
Longmore 13	PN	16 09.8	-30 55	71"	15.5	Sco
	large, very low surface					
MCG +14-08-017	GX-	16 52.8	+81 38		14.9	UMi
	brightest in the UGC 1	•	•	-	•	
M 2-9	PPN	17 05.6	-10 09	39"x15"	14.6	Oph
	Minkowski's Butterfly   "jets" N-S.	nebula is a bi-polar	proto-planetary,	best viewed at high p	ower. Look for	two thin
Djorgovski 2	GC	18 01.8	-27 50	3.5	9.9	Sgr
	recently discovered gl	obular just 21' WN\	N of open cluste	r NGC 6520 and dark	nebula B86!	
Barnard 87	DN	18 04.3	-32 30	12		Sgr
	the "Parrot Head" darl the Parrot).	k nebula contains a	single mag 9.5	star. Look for a short t	thin extension (	beak of
Simeis 3-132	EN	18 17.9	-11 44	6		Ser
	obscure but relatively region encasing the cl		cated 30' north of	f NGC 6604 and Sh 2	-54 (large, faint	HII
Sh 2-68	PN	18 25.0	+00 52	475"x330"	11.2	Ser
	huge low surface brigl	htness glow, perhap	ps 5'-6' in diamet	ter with an OIII filter.		
Palomar 8	GC	18 41.5	-19 50	4.7	11.2	Sgr
	one of the easier Palo	mar globulars, rouc	ahly 2' in diamete	er. A large scope may	partially resolve	e.
		5	, ,	J = = = = = = = = = = = = = = = = = = =	,	

NGC 6717	GC 18 55.1	-22 42	3.9 9.2	Sgr				
1100 01 11	very unusual small, faint glow just 2' south of			og.				
Terzan 7	GC 19 17.7	-	2.6 12	Sgr				
	low surface brightness glow with little, if any, from the Sagittarius dwarf Spheroidal galaxy)	low surface brightness glow with little, if any, central concentration (this globular may have captured						
Arp 2	GC 19 28.7		2.5 12.3	Sgr				
·	extremely low surface brightness 2' glow with and difficult to pick out.	a very small brighter of	ore. Situated in a rich star	=				
NGC 6822	GX-IBm 19 45.0	-14 48 15.5x13	8.5 8.8	Sgr				
	use an OIII filter on Barnard's galaxy and sea	ŭ	s on the north side of the	galaxy.				
Palomar 11	GC 19 45.2	-08 00	8 9.8	Aql				
	this Palomar globular appears as a diffuse, irr high power.	egular glow 4' SSE of	a mag 9 star. Try to resolv	e at				
Abell 65	PN 19 46.6	-23 09 134"x3	4" 13.8	Sgr				
	this relatively bright Abell planetary is noticeal surface brightness galaxy.	bly elongated NW-SE	and appears similar to a lo	)W				
Sh 2-84	EN 19 49.0	+18 23 15	x3	Sge				
	the "Little California Nebula" appears a faint, stars. Located 25' ESE of mag 3.7 Delta Sagi		osity bracketed by two mag	g 8.5				
ESO 461-007	GX-S0 19 52.1	-30 49 1.2x0	0.7 13.3	Sgr				
	brightest of four galaxies in HCG 86.							
Abell 70	PN 20 31.6	-07 05 45"x4	0" 14.7	AqI				
	once you've tracked down this planetary, look uncatalogued galaxy shining through the disc		g on the north side that's	s an				
ESO 597-036	GX-S0 pec 20 48.2	-19 51 1.6x0	).3 14.3	Cap				
	brightest of 3 or more galaxies in HCG 87 (Hi							
CRL 2688		+36 42 24">		Cyg				
	the bi-polar Egg Nebula appears as a small, f	<u>=</u>	- ·					
vdB 142	RN/DN 21 36.7	+57 30	15	Cep				
	the "Elephant's Trunk" is an unusual cometary side of the huge but faint HII complex, IC 139			west				
NGC 7320	GX-Sd 22 36.1	+33 57 2.2x1	.1 12.6	Peg				
	brightest in Stephan's Quintet. If the Quintet is and NGC 7320C just 4' E of NGC 7319!	s easy, look for NGC 7	320A 12' SE, NGC 7320B	20' E				
Sh 2-155	EN 22 56.8	+62 37 50x	30	Cep				
	Sh 2-155 is the "Cave Nebula" included by Palarge, diffuse glow mostly surrounding a mag			r just a				
NGC 7492	GC 23 08.4	-15 37	1.2 11.5	Aqr				
0	low surface brightness NGC globular.							
Sh 2-157		+60 28 60x		Cas				
	this huge HII region appears as a faint, curving graceful arc, ~35'x8', very elongated N-S and bowed out on the following side with an OIII filter. Extends north and south of open cluster Markarian 50 off the west side.							
Abell 84		+51 24 147"x11	4" 13	Cas				
	look for a 2' disc with an OIII filter with a stare	embedded on the east						