

240 Night Sky Objects for Small Telescopes

Object	Type	Con	Mag	Size '	RA	Dec	Observer Notes
NGC 129	Open Cluster	CAS	6.5	21	0 29	60 13	35 stars
Pi Andromedae	Double Star	AND	4.5, 8.5	36"	0 37	33 43	White and blue
M110 NGC 205	Galaxy Elliptical	AND	8.5	17x10	0 40.4	41 41	M31 companion
Alpha Cassiopeiae	Double Star	CAS	2.2, 8.9	69.8"	0 40.5	56 32	PA = 282° Schedar, Reddish-white + blue
M32 NGC 221	Galaxy Dwarf	AND	8.1	8x6	0 42.7	40 52	M31 companion
M31 NGC 224	Galaxy Spiral	AND	3.4	178x63	0 42.7	41 16	Andromeda Galaxy
NGC 246	Planetary	CET	8.5	240"x210"	0 47.1	-11 53	low surface brightness
NGC 253	Galaxy Spiral	SCL	7.2	25x7	0 47.5	-25 17	Large edge-on spiral
Eta Cassiopeiae	Double Star	CAS	3.4, 7.5	12"	0 49	57 49	PA = 307° Yellow-white + reddish-purple or light yellow + orange
NGC 281	OC + Diff Neb	CAS	7.4	4 & 30x25	0 52.8	56 37	responds to UHC filter
NGC 457	Open Cluster	CAS	6.4	13	1 19.1	58 20	Owl Cluster, rich, 80 stars
M103 NGC 581	Open Cluster	CAS	7.4	6	1 33.2	60 42	
M33 NGC 598	Galaxy Spiral	TRI	5.7	73x45	1 33.9	30 39	
M74 NGC 628	Galaxy Spiral	PSC	9.4	10.2x9.5	1 36.7	15 47	
M76 NGC 650	Planetary	PER	10.1	2.7x1.8	1 42.4	51 34	
NGC 654	Open Cluster	CAS	6.5	5	1 44	61 53	
NGC 663	Open Cluster	CAS	7.1	16	1 46	61 15	NGCs 654 + 659 nearby
Cr 463	Open Cluster	CAS	5.7	36	1 47	71 46	40 stars
Gamma Arietis	Double Star	ARI	4.8, 4.8	7.8"	1 53	19 18	PA = 0° Mesarthim, Orange and green or both white
NGC 752	Open Cluster	AND	5.7	50	1 57	37 41	
Lambda Arietis	Double Star	ARI	4.9, 7.7	37"	1 58	23 36	PA = 47° Yellow and blue
Gamma Andromedae	Double Star	AND	2.3, 5.5	9.8"	2 4	42 20	PA = 63° Almach, Orange and blue
Stock 2	Open Cluster	CAS	4.4	60	2 15	59 15	Muscleman Cluster
NGC 869	Open Cluster	PER	5.3	30	2 19	57 8	Double Cluster w/NGC 884
NGC 884	Open Cluster	PER	6.1	30	2 22	57 6	Double Cluster w/NGC 869, 350stars , use low power
Alpha Ursa Minoris	Double Star	UMi	2.0, 9.0	18.4"	2 32	89 16	PA = 218°
M34 NGC 1039	Open Cluster	PER	5.5	35	2 42	42 47	
NGC 1027	Open Cluster	CAS	6.7	20	2 42	61 35	40 stars
M77 NGC 1068	Galaxy Spiral	CET	8.9	7x6	2 42.7	0 1	
Eta Persei	Double Star	PER	3.8, 8.5	28.3"	2 51	55 54	PA = 300° Gold and royal blue

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Struve 331	Double Star	PER	5.3, 6.7	12.1"	3 1	52 21	PA = 85°
Cr 39 Mel 20	Open Cluster	PER	2.3	185	3 24	49 51	Alpha Persei Association 50 stars
NGC 1342	Open Cluster	PER	6.7	14	3 31	37 23	40 stars
M45	Open Cluster	TAU	1.6	110	3 47	24 7	Pleiades 7 Sisters star cluster
32 Eridani	Double Star	ERI	4.8, 6.1	6.8"	3 54	-2 57	PA = 347° Yellow and greenish blue
Kemble Cascade	Asterism	CAM			3 57	63 4	Beautiful 3° chain of ~ 20 mag. 5 stars; coordinates for SAO 12969
NGC 1499	Nebula Diffuse	PER	E	150x40	4 0.7	36 37	California Nebula, use H-Beta filter
NGC 1502	Open Cluster	CAM	6.9	8	4 7	62 19	Near SE end of Kembles Cascade
NGC 1528	Open Cluster	PER	6.4	24	4 15	51 13	
NGC 1545	Open Cluster	PER	6.2	18	4 20	50 15	20 stars
Mel 25	Open Cluster	TAU	0.5	330	4 27	16 0	Hyades, Aldebaran is not a member
NGC 1582	Open Cluster	PER	7	37	4 31	43 45	20 stars
NGC 1647	Open Cluster	TAU	6.4	45	4 45	19 8	200 stars
NGC 1662	Open Cluster	ORI	6.4	20	4 48	10 55	35 stars
NGC 1664	Open Cluster	AUR	7.6	18	4 51	43 40	100 stars
NGC 1746	Open Cluster	TAU	6.1	41	5 3	23 49	20 stars
Cr 464	Open Cluster	CAM	4.2	120	5 12	73 57	50 stars
Rho Orionis	Double Star	ORI	5, 9	7"	5 13	2 55	Yellow and pale orange
14 Auriga	Double Star	AUR	5.4, 7.5	14"	5 13	32 42	Pale yellow and orange
Beta Orionis	Double Star	ORI	0.1, 6.8	9.5"	5 14	-8 12	PA = 202°
Cr 62	Open Cluster	AUR	4.2	28	5 22	41 0	---
M79 NGC 1904	Globular	LEP	7.7	8.7	5 24.5	-24 33	
M38 NGC 1912	Open Cluster	AUR	7.4	21	5 28.4	35 50	
Delta Orionis	Double Star	ORI	2.2, 6.3	52.6"	5 32	0 -18	PA = 359°
M1 NGC 1952	Supernova Rem	TAU	8.4	6x4	5 34.5	22 1	Crab Nebula
Iota Orionis	Double Star	ORI	2.8, 6.9	11.3"	5 35	-5 55	PA = 141° White, light-green, purple(mag 7.5, 50" from primary)
Struve 747	Double Star	ORI	4.8, 5.7	35.7"	5 35	-6 0	PA = 223°
Theta 1 Orionis	Multiple Star	ORI	6.7, 7.9, 5.1, 6.7	8.8", 13", 21.5"	5 35	-5 23	PA = 31°, 132°, 96° Trapezium
Cr 69	Open Cluster	ORI	2.8	64	5 35	9 56	20 stars with Lambda Orionis embedded
NGC 1981	Open Cluster	ORI	4.2	24	5 35	-4 26	Cluster in Orions Sword, 20 stars

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M42 NGC 1976,1982	OC + Nebula	ORI	4	85x60	5 35.4	-5 27	Great Nebula of Orion (M42,M43)
M43 NGC 1982	Nebula Emission	ORI	9	20x15	5 35.6	-5 16	
M36 NGC 1960	Open Cluster	AUR	6.3	12	5 36.1	34 8	
Sigma Orionis	Multiple Star	ORI	4.0, 7.5, 6.5	12.9",43"	5 39	-2 36	PA = 84°, 61°
Zeta Orionis	Multiple Star	ORI	1.9, 4.0, 9.9	2.4", 58"	5 41	-1 57	PA = 162°, 10° Alnitak
Gamma Leporis	Double Star	LEP	3.7, 6.3	96"	5 44	-22 27	PA = 350° Yellow and red
M78 NGC 2068	Nebula Diffuse	ORI	8.3	8x8	5 46.7	0 3	Nebula around field star, NGC 2064,67,71 nearby
Alpha Orionis	Carbon Star	ORI		0.0-1.3	5 52	-7 24	Betelgeuse, red supergiant, may supernova soon
M37 NGC 2099	Open Cluster	AUR	6.2	24	5 52.4	32 33	
M35 NGC 2168	Open Cluster	GEM	5.3	28	6 8.9	24 20	
Epsilon Monocerotis	Double Star	MON	4.5, 6.5	13.4"	6 24	4 36	PA = 27° good color contrast
Beta Monocerotis	Double Star	MON	4.7, 5.2	7.3"	6 24	-7 2	PA = 132° Triple 6.2 at 2.9" & PA = 133°
NGC 2232	Open Cluster	MON	3.9	30	6 26	-4 44	
NGC 2237	Nebula Bright	MON	5.5	70.0x80.0	6 32	4 59	Rosette Nebula OC NGC 2244 embedded
NGC 2244	Open Cluster	MON	4.8	24	6 32	4 52	Open cluster involved with Rosette Neb. (NGC 2237)
Cr 106	Open Cluster	MON	4.6	45	6 37	5 58	20 stars
Cr 107	Open Cluster	MON	5.1	35	6 37	4 45	15 stars
NGC 2264	OC + Diff neb	MON	3.9	30.0x60.0	6 40	9 53	Christmas Tree Cluster; Cone Neb includes naked-eye S(15) Mon
12 Lyncis	Multiple Star	LYN	5.4,6.0,7.3	2",9"	6 46	59 27	PA = 308° Triple 7.3 at 8.9" & PA = 310° use high power on close pair
M41 NGC 2287	Open Cluster	CMa	4.6	38	6 46	-20 44	
M50 NGC 2323	Open Cluster	MON	6.3	16	7 3.2	-8 20	
NGC 2392	Planetary	GEM	8.6	47.0"x43.0"	7 29	20 54	Eskimo Nebula; Clown Face, use high power
M47 NGC 2422	Open Cluster	PUP	5.2	30	7 36.6	-14 30	
NGC 2403	Galaxy Spiral	CAM	8.9	22x12	7 37	65 36	visible in binocs
M46 NGC 2437	Open Cluster	PUP	6	27	7 41.8	-14 49	
M93 NGC 2447	Open Cluster	PUP	6	22	7 44.6	-23 52	
NGC 2539	Open Cluster	PUP	6.5	22	8 10.7	-12 50	rich, near M46 + M47
M48 NGC 2548	Open Cluster	HYA	5.5	54	8 13.8	-5 48	
M44 NGC 2632	Open Cluster	CNC	3.7	95	8 40.1	19 59	Praesepe or Beehive Cluster
Iota Cancri	Double Star	CNC	4.2, 6.6	30"	8 47	28 46	PA = 307° Yellow and blue or gold and light blue

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M67 NGC 2682	Open Cluster	CNC	6.1	30	8 50.4	11 49	
Tau1 Hydra	Double Star	HYA	4.6, 7.2	66"	9 28	-2 36	White and lilac
M81 NGC 3031	Galaxy Spiral	UMa	6.9	21x10	9 55.6	69 4	
M82 NGC 3034	Galaxy Irregular	UMa	8.4	9x4	9 55.8	69 41	
NGC 3242	Planetary	HYA	8.6	40"x35"	10 25	-18 38	Ghost of Jupiter
U Hydrae	Carbon Star	HYA	4.7	4.7-6.2	10 38	-13 24	
M96 NGC 3368	Galaxy Spiral	LEO	9.2	6x4	10 46.8	11 49	
M10 NGC 3379	Galaxy Elliptical	LEO	9.3	2	10 47.8	12 35	
M97 NGC 3587	Planetary	UMa	9.9	3.4x3.3	11 14.8	55 1	Owl Nebula
M65 NGC 3623	Galaxy Spiral	LEO	9.3	8x1.5	11 18.9	13 5	Leo Triplet, same field with M66, NGC 3628
M66 NGC 3627	Galaxy Spiral	LEO	8.9	8x2.5	11 20.2	12 59	Leo Triplet, same field with M65, NGC 3628
Tau Leonis	Double Star	LEO	5.2, 7	90	11 26	3 0	Yellow and blue
M106 NGC 4258	Galaxy Spiral	CVn	8.4	19x8	12 19	47 18	
M100 NGC 4321	Galaxy Spiral	COM	9.3	7x6	12 22.9	15 49	
SS Virginis	Carbon Star	VIR	6	6.0-9.6	12 25	0 42	
Markarian Chain	Galaxy Chain	VIR			12 25	12 53	Covers 3° from M84 & M86 in Virgo to NGC 4459 & 4474 in Coma Ber
Cr 256 Mel 111	Open Cluster	COM	1.8	275	12 25	26 7	Coma Bernices Cluster 80 stars
M84 NGC 4374	Nebula Emission	VIR	9.1	5	12 25.1	12 53	
M85 NGC 4382	Nebula Emission	COM	9.1	7.1x5.2	12 25.4	18 11	
M86 NGC 4406	Nebula Emission	VIR	8.9	7.5x5.5	12 26.2	12 57	
M49 NGC 4472	Galaxy Elliptical	VIR	8.4	9x7.5	12 29.8	8 0	
Delta Corvi	Double Star	COR	3.0, 9.2	24.2"	12 30	-16 31	PA = 214° Algorab, Yellow and red-purple, wide, uneven with nice colors
M87 NGC 4486	Galaxy Elliptical	VIR	8.6	7	12 30.8	12 24	
24 Comae Berenices	Double Star	COM	5.2, 6.7	20.3"	12 35	18 23	PA = 271° Orange and emerald or gold and blue
M58 NGC 4579	Nebula Emission	VIR	9.7	5.5x4.5	12 37.7	11 49	
M68 NGC 4590	Globular	HYA	7.8	12	12 39.5	-26 45	
M104 NGC 4594	Galaxy Spiral	VIR	8	9x4	12 40	-11 37	
M60 NGC 4649	Galaxy Elliptical	VIR	8.8	7x6	12 43.7	11 33	
Y Canum Venatici	Carbon Star	CVn	5	5.0-6.4	12 45	45 24	hd 110914
M94 NGC 4736	Galaxy Spiral	CVn	8.2	7x3	12 50.9	41 7	

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Alpha CanesVenatici	Double Star	CVn	2.9, 5.8	19.4	12 56	38 19	PA = 229° Cor Caroli, Blue-white both or blue-white and green
M64 NGC 4826	Galaxy Spiral	COM	8.5	9.3x5.4	12 56.7	21 41	
M53 NGC 5024	Globular	COM	7.6	12.6	13 12.9	18 10	
M63 NGC 5055	Galaxy Spiral	CVn	8.6	10x6	13 15.8	42 2	
Zeta Ursa Majoris	Multiple Star	UMa	2.3, 4.0, 4.0	14.4", 709"	13 24	54 56	Mizar-Alcor, PA = 152°, 71°, naked eye double
M51 NGC 5194	Galaxy Spiral	CVn	8.4	11x7	13 29.9	47 12	
M83 NGC 5236	Galaxy Spiral	HYA	7.6	11x10	13 37	-29 52	
M3 NGC 5272	Globular	CVn	6.2	16.2	13 42.2	28 23	
Alpha CanumVen	Double Star	CVn	2.9, 5.5	19.4"	13 56	38 19	PA = 229°
M101 NGC 5457	Galaxy Spiral	UMa	7.9	22	14 3.2	54 21	
Kappa Bootis	Double Star	BOO	4.6, 6.6	13.4"	14 13	51 47	PA = 236°
Iota Bootis	Double Star	BOO	4.9, 7.5	38"	14 16	51 22	PA = 33°
Xi Bootis	Double Star	BOO	4.7, 7.0	6.9"	14 51	19 6	PA = 332° Yellow and red
M102 NGC 5866	Nebula Emission	DRA	9.9	5.2x2.3	15 6.5	55 46	
Delta Bootis	Double Star	BOO	3.5, 8.7	105"	15 15	33 19	PA = 79° Light yellow and light blue
M5 NGC 5904	Globular	SER	5.6	17.4	15 18.6	2 5	
Zeta Corona Borealis	Double Star	CBR	5.1, 6.0	6.3"	15 39	36 38	PA = 305° Blue-white and blue
T Corona Borealis	Nova Recurring	CrB	2.3	2.3-10	16 0	26 0	Blaze Star
Xi Scorpii	Double Star	SCO	4.8, 7.3	7.6"	16 4	-11 22	PA = 51°
Beta Scorpii	Double Star	SCO	2.6, 4.9	13.6"	16 5	-19 48	PA = 21°
Kappa Herculis	Double Star	HER	5.3, 6.5	28"	16 8	17 3	PA = 12°
Nu Scorpii	Double Star	SCO	4.3, 6.4	41"	16 12	-19 28	PA = 337°
M80 NGC 6093	Globular	SCO	7.3	8.9	16 17	-22 59	
M4 NGC 6121	Globular	SCO	5.6	26.3	16 23.6	-26 32	
M107 NGC 6171	Globular	OPH	7.9	10	16 32.5	-13 3	
16/17 Draconis	Multiple Star	DRA	5.4, 6.4, 5.5	3.4, 90	16 36	52 55	PA = 108°, 194°
M13 NGC 6205	Globular	HER	5.8	16.6	16 41.7	36 28	
NGC 6210	Planetary	HER	9.7	20"x13"	16 44.5	23 49	small, bluish
M12 NGC 6218	Globular	OPH	6.7	14.5	16 47.2	-1 57	
M10 NGC 6254	Globular	OPH	6.6	15.1	16 57.1	-4 6	

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M62 NGC 6266	Globular	OPH	6.5	14.1	17 1.2	-30 7	
M19 NGC 6273	Globular	OPH	6.8	13.5	17 2.6	-26 16	
Delta Herculis	Double Star	HER	3.1, 8.2	8.9"	17 15	24 50	PA = 236°
M92 NGC 6341	Globular	HER	6.4	11.2	17 17.1	43 8	
M9 NGC 6333	Globular	OPH	7.7	9.3	17 19.2	-18 31	
B 59, 65, 66, 67	Dark Nebula	OPH		300x60	17 20	-26 54	Pipe Nebula (Stem), also rump of Dark Horse Nebula
B 72	Dark Nebula	OPH		30x30	17 23.6	-23 37	Snake Nebula, head & front legs of Dark Horse Nebula
Nu Draconis	Double Star	DRA	4.9, 4.9	62"	17 32	55 11	PA = 312° very wide similar pair
B 78	Dark Nebula	OPH		200x140	17 32.7	-25 36	Pipe Nebula (Bowl), also rump of Dark Horse Nebula
M14 NGC 6402	Globular	OPH	7.6	11.7	17 37.6	-3 15	
M6 NGC 6405	Open Cluster	SCO	5.3	25	17 40.1	-32 13	
Psi Draconis	Double Star	DRA	4.9, 6.1	30.3"	17 42	72 9	PA = 15°
IC 4665	Open Cluster	OPH	4.2	40	17 46	5 43	
Cr 350	Open Cluster	OPH	6.1	45	17 48	1 18	Near Cr 359, 20 stars
M7 NGC 6475	Open Cluster	SCO	4.1	80	17 53.9	-34 49	
M23 NGC 6494	Open Cluster	SGR	6.9	27	17 56.8	-19 1	
NGC 6543	Planetary	DRA	8.3	22"x16"	17 59	66 38	Cats Eye Nebula, 11th mag central star
95 Herculis	Double Star	HER	5.0, 5.1	6.3"	18 1	21 36	PA = 258° Green and red-yellow
Cr 359 Mel 186	Open Cluster	OPH	3	240	18 1	2 54	Very large at 4 deg, use finder!
M20 NGC 6514	OC + Nebula	SGR	9	29x27	18 2.6	-23 2	Trifid Nebula (M20)
M8 NGC 6523	OC + Nebula	SGR	6	90x40	18 3.8	-24 23	Lagoon Nebula (M8)
NGC 6530	Open Cluster	SGR	4.6	14	18 4	-24 21	Cluster in M8, 113 stars
M21 NGC 6531	Open Cluster	SGR	6.5	13	18 4.6	-22 30	
NGC 6572	Planetary	OPH	9	15"x12"	18 12.1	6 51	small, bright
M24 NGC 6603	Star Cloud	SGR	4.6	90	18 16.9	-18 29	NGC 6603 small open cluster embedded
M16 NGC 6611,IC4703	OC + Nebula	SER	6.4	7	18 18.8	-13 47	Eagle Nebula (M16)
M18 NGC 6613	Open Cluster	SGR	7.5	9	18 19.9	-17 8	
M17 NGC 6618	OC + Nebula	SGR	7	11, 40x30	18 20.8	-16 11	Omega Nebula (M17)
M28 NGC 6626	Globular	SGR	6.8	11.2	18 24.5	-24 52	
NGC 6633	Open Cluster	OPH	4.6	27	18 27.7	6 34	large, sparse, bright

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M69 NGC 6637	Globular	SGR	7.6	7.1	18 31.4	-32 21	
M25 NGC 14725	Open Cluster	SGR	6.5	40	18 31.6	-19 15	
M22 NGC 6656	Globular	SGR	5.1	24	18 36.4	-23 54	
IC 4756	Open Cluster	SER	4.6	52	18 38	5 26	
M70 NGC 6681	Globular	SGR	7.9	7.8	18 43.2	-32 18	
Epsilon Lyrae	Multiple Star	LYR	5.0, 6.1, 5.2, 5.5	208", 2.6", 2.3"	18 44	39 40	PA = 357°, 173°, 94° Famous "Double-Double"
Zeta Lyrae	Double Star	LYR	4.3, 5.9	44"	18 45	37 36	PA = 150° Red and blue-green
M26 NGC 6694	Open Cluster	SCT	8	15	18 45.2	-9 24	
Beta Lyrae	Double Star	LYR	3.4, 8.6	46"	18 50	33 22	PA = 149°
NGC 6709	Open Cluster	AQL	6.7	13	18 51	10 20	40 stars
M11 NGC 6705	Open Cluster	SCT	6.3	14	18 51.1	-6 16	Wild Duck Cluster, 2900 stars
M57 NGC 6720	Planetary	LYR	8.8	1.4x1.0	18 53.6	33 2	
M54 NGC 6715	Globular	SGR	7.6	9.1	18 55.1	-30 29	
Theta Serpentis	Double Star	SER	4.5, 5.4	22.3"	18 56	4 12	PA = 104°
NGC 6755	Open Cluster	AQL	7.5	14	19 7	4 14	100 stars
Struve 2470, 2474	Multiple Star	LYR	6.6, 8.6, 6.5, 8.6	13.4", 16.4"	19 9	34 36	PA = 271°, PA = 261°, another "Double-Double"!
M56 NGC 6779	Globular	LYR	8.3	7.1	19 16.6	30 11	
Cr 399	Asterism	VUL	3.6	60	19 25	20 11	Brocchis Cluster; Coathanger, 6802 nearby
Beta Cygni	Double Star	CYG	3.0, 5.1	34.4"	19 30	27 57	PA = 54° Alberio, Superb gold and blue or yellow and green
PK 64+5.1	Planetary	CYG	9.6	35"	19 35	30 31	Campbells Hydrogen Star (Wolf-Rayet star)
Stock 1	Open Cluster	CYG	5.3	80	19 36	25 13	40 stars
NGC 6811	Open Cluster	CYG	6.8	12	19 37	46 21	70 stars
M55 NGC 6809	Globular	SGR	6.3	19	19 40	-30 58	
NGC 6823	Open Cluster	VUL	7.1	12	19 43	23 18	30 stars
NGC 6826	Planetary	CYG	8.8	27"x24"	19 44.8	50 31	Blinking Planetary, 10 mag stars
M71 NGC 6838	Globular	SGR	8.2	7.2	19 53.8	18 47	
M27 NGC 6853	Planetary	VUL	7.4	8.0x5.7	19 59.6	22 43	
NGC 6871	Open Cluster	CYG	5.2	20	20 5	35 46	Rich Milky Way field, near 6883, 15 stars
M75 NGC 6864	Globular	SGR	8.5	6	20 6.1	-21 55	
31 Cygni	Multiple Star	CYG	3.8, 6.7, 4.8	107", 337"	20 14	46 44	PA = 173° Orange, blue, blue (mag 6.7, 337"), 4th 13 mag at 34"

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M29 NGC 6913	Open Cluster	CYG	7.1	7	20 23.9	38 32	
NGC 6940	Open Cluster	VUL	6.3	31	20 34.6	28 18	rich, 60 stars
52 Cygni	Double Star	CYG	4.3, ?	6.5	20 46	30 43	Orange and blue
Gamma Delphinus	Double Star	DEL	4.5, 5.5	9.6"	20 47	16 7	PA = 266° Yellow and green
IC 5067-68, IC507	Nebula Diffuse	CYG	E	80x70	20 50.8	44 21	Pelican Nebula
NGC 6992, 6995	Supernova Rem	CYG		80x26	20 57	31 30	Veil Nebula East, Use UHC or OIII
NGC 7000	Nebula Diffuse	CYG		175x110	20 58.8	44 33	North America Nebula, low power easier in binocs
NGC 7009	Planetary	AQR	8.3	28"x23"	21 4.2	-11 22	Saturn Nebula, small green oval
61 Cygni	Double Star	CYG	5.2, 6.0	28"	21 7	38 45	PA = 146°
NGC 7027	Planetary	CYG	9.6	18"x11"	21 7.1	42 14	proto-planetary, unique
NGC 7039	Open Cluster	CYG	7.6	24	21 11	45 39	50 stars
Beta Cephei	Double Star	CEP	3.2, 7.9	13.3"	21 29	70 34	PA = 249° Alfirk, White and blue
M15 NGC 7078	Globular	PEG	6.2	12.3	21 30	12 10	
M39 NGC 7092	Open Cluster	CYG	4.6	32	21 32.2	48 26	
M2 NGC 7089	Globular	AQR	6.5	12.9	21 33.5	0 49	
Struve 2816	Multiple Star	CEP	5.6, 7.7, 7.8	11.7", 20"	21 39	57 29	PA = 121°, 339° triple star at center of faint nebula IC 1396
M30 NGC 7099	Globular	CAP	7.2	11	21 40.4	-23 11	
Mu Cephei	Carbon Star	CEP	4.23	3.7-5.0	21 43	58 48	Herschels Garnet Star deep red variable
Xi Cephei	Double Star	CEP	4.4, 6.5	7.7"	22 4	64 38	PA = 277°
NGC 7243	Open Cluster	LAC	6.4	21	22 15.3	49 53	40stars
Delta Cephei	Double Star	CEP	3.9, 6.3	41"	22 29	58 25	PA = 192° Orange and blue
NGC 7293	Planetary	AQR	6.3	16.0x12.0	22 29	-20 47	Helix Nebula, large & diffuse
Tau1 Aquarii	Double Star	AQU	5.7, 9.2	26	22 46	-14 12	White and pale red
NGC 7380	Open Cluster	CEP	7.2	12	22 47	58 6	40 stars
94 Aquarii	Double Star	AQU	5.3, 7.3	12.7"	23 19	-13 28	PA = 350° Reddish-white and light blue
M52 NGC 7654	Open Cluster	CAS	7.3	13	23 24.2	61 35	
NGC 7662	Planetary	AND	8.6	17"x14"	23 25.9	42 32	Blue Snowball Nebula, use high power for detail
107 Aquarii	Double Star	AQU	5.4, 5.7	7"	23 44	-18 48	White and blue
NGC 7789	Open Cluster	CAS	6.7	16	23 57	56 44	very rich, many dim stars