

Catalogue of Best 800 Deep Sky Objects for Northern Observers

The catalogue represents the best 800 deep sky objects visible from a Latitude of 50°N. The objects make spectacular targets for astrophotography with the UNISTELLAR eVscope. It will also be useful to owners of classical telescopes, although many of the nebula listed may not be visually observable.

Many of the objects are in the UNISTELLAR database. In addition, users of the eVscope can use www.yorkshire-astro.webnode.com which has a table with links for each object which will launch the App and go to its location (loads RA/DEC in the Science Tab). Click on Type to go to a custom view at spiders.seds.org (which includes a 30'x30' DSS view centered on the object from archive.stsci.edu).

Score / 100 is my own scoring system: 1=Worst 100=Best. The Table is Sortable. Click on headers e.g. Constellation. The Map# column is described below. The + symbol following the map# indicates that the object is off the given map (low declination).

Credits

The Messier Catalogue.	Orion Deep Map 600.
The Caldwell Objects (Patrick Moore).	Guy Consolmagno & Dan M Davies "Turn Left at Orion".
The Astronomical League's Herschel 400-I and 400-II Lists.	Alan M MacRobert's "Star-Hopping for Backyard Astronomers".
Don Pensack 500.	Paul Hickson Compact Group.
Stephen James O'Meara's Books ("Hidden Treasures" and "The Secret Deep").	Steve Gottlieb & Mark Wagner "Galaxy Trios".
RASC 110 "Alan Dyer's Finest".	Michael Vlasov's 650 Best Objects.
Tom Hoffelder's "The Magnificent 1000".	Hartmut Frommert https://spider.seds.org/
Boyd Edwards 884 including Burnham's Celestial Handbook.	The Digitized Sky Survey archive.stsci.edu
Maps created using Cartes du Ciel, Patrick Chevalley	My own contributions and edits (Alan Simpson).

Key

SD# = The Secret Deep (object number), O'Meara	GRTX# = Galaxy Trio Number, Gottlieb & Wagner
HT# = Hidden Treasures (object number), O'Meara	HCG# = Hickson Compact Group Number
MC# = Star Hopping (page number), MacRoberts	L/P, M/P, H/P = Low - High Power Magnification in Classical Telescopes
TL# = Turn Left at Orion (page number), Consolmagno & Davies	A/V = Averted Vision in Classical Telescopes

Maps

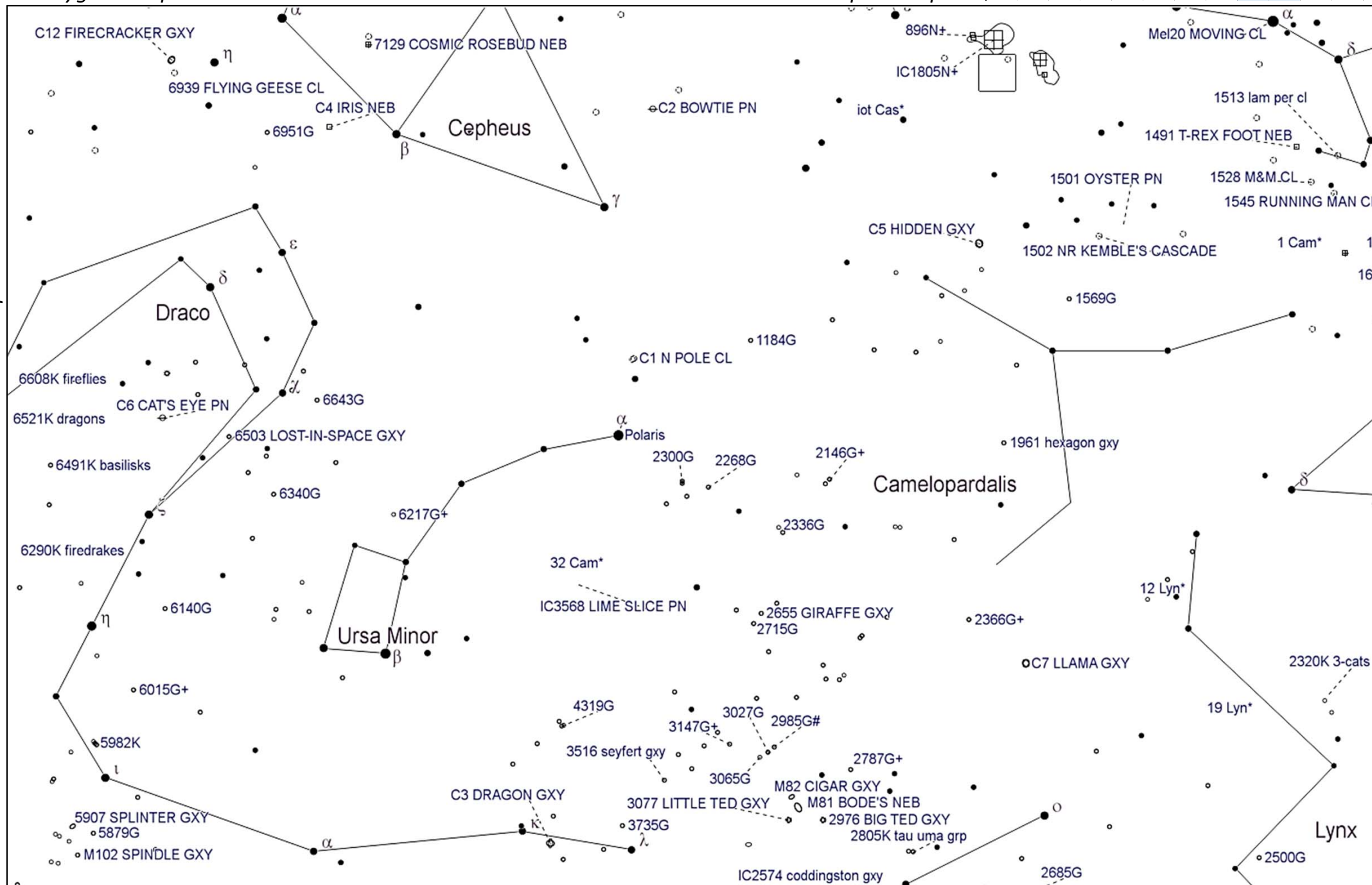
A set of 10 sky maps is included that provide an overview of the location of these objects. A good sky atlas or planetarium software (e.g. Sky Safari) should be consulted for exact position. The ideal time each month is given for observing using the maps. "G" refers to a Galaxy, "K" refers to a cluster of galaxies, "C" or "CL" is a cluster, "PN" a planetary nebula, "GC" a globular cluster, "N" a nebula, "C{num}" refers to the Caldwell list (see separate table). Highly rated objects are denoted "+" and Excellent objects are denoted "#". So for example "869N+" is a highly rated nebula NGC869 on Map 2. A selection of double stars are also plotted on the maps denoted * (good) or ** (excellent) but these are not included in the Tables.

Map 1 Polar Sky

J	F	M	A	M	J	J	A	S	O	N	D
18	18	18	4	2	0	23	23	21	19	19	18

Cygnus Map 8

Cassiopeia Map 2



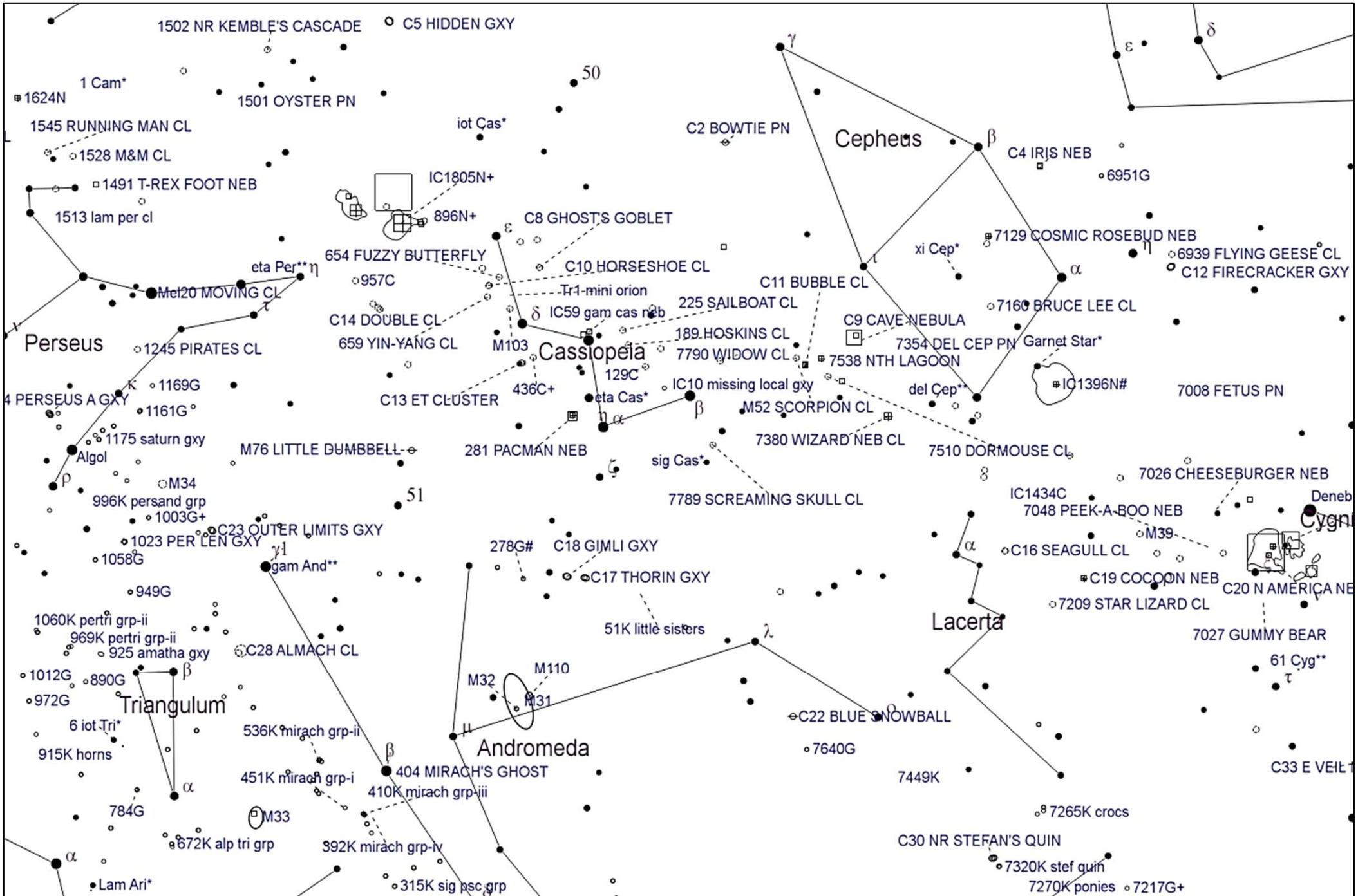
Perseus Map 2

Auriga Map 3

Map 2 Cassiopeia Andromeda Cepheus

J	F	M	A	M	J	J	A	S	O	N	D
18	18	19	20	4	2	2	2	0	22	19	17

Camel Map 1



Hercules Map 8

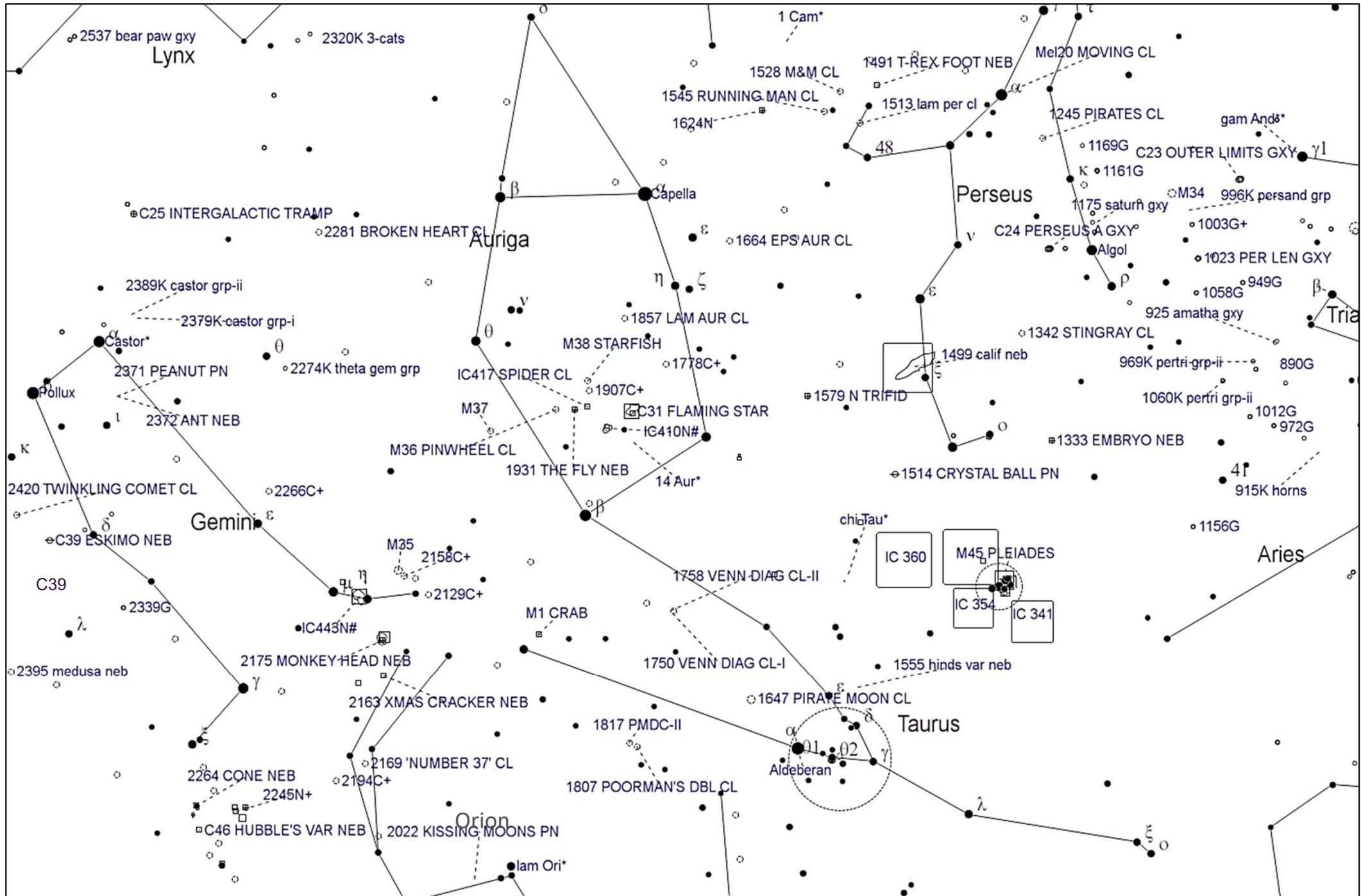
Vulpecula Map 8

Pegasus Map 10

Map 3 Auriga Taurus Gemini Perseus

U Maj Map 5

J	F	M	A	M	J	J	A	S	O	N	D
20	18	19	20	21			2	0	0	23	21



Andromeda Map 2

Cetus

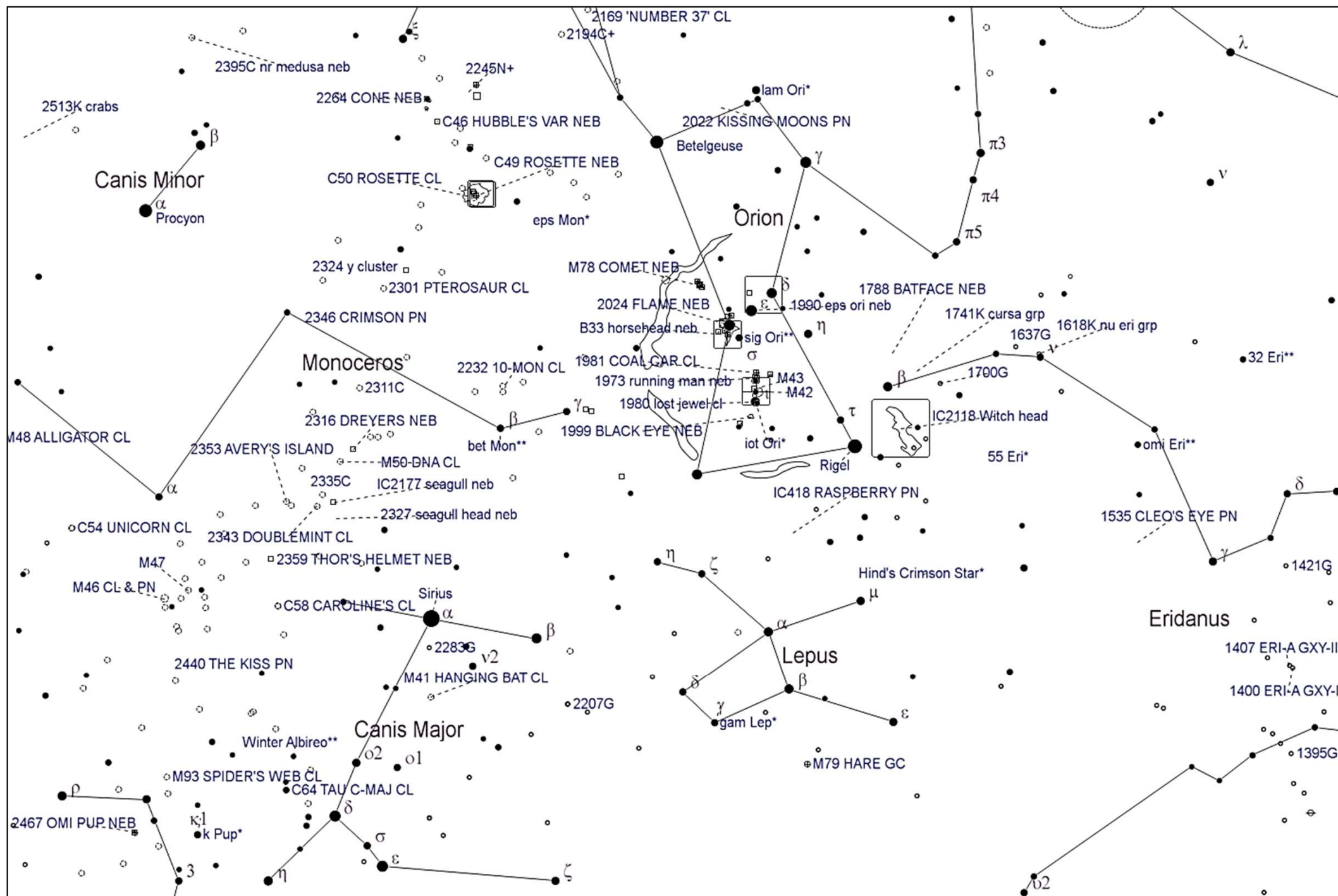
Monoceros Map 4

Map 4 Orion

J F M A M J J A S O N D
22 20 20 4 2 0

Cancer Map 6

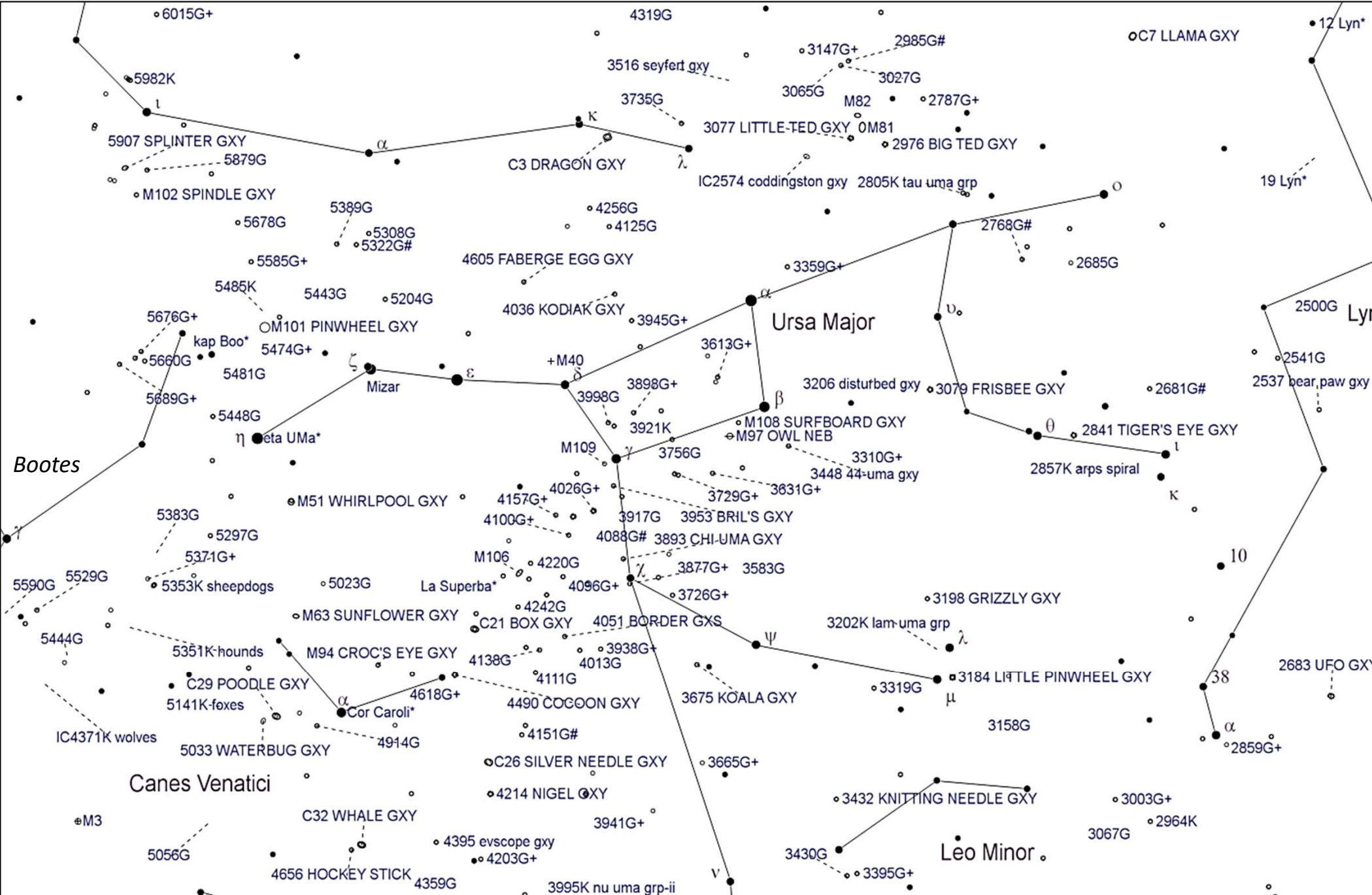
Taurus Map 3



Map 5 Ursa Major

J	F	M	A	M	J	J	A	S	O	N	D
2	0	22	23	21	23	22	22	20	19	6	4

Draco Map 1

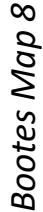


Bootes Map 8

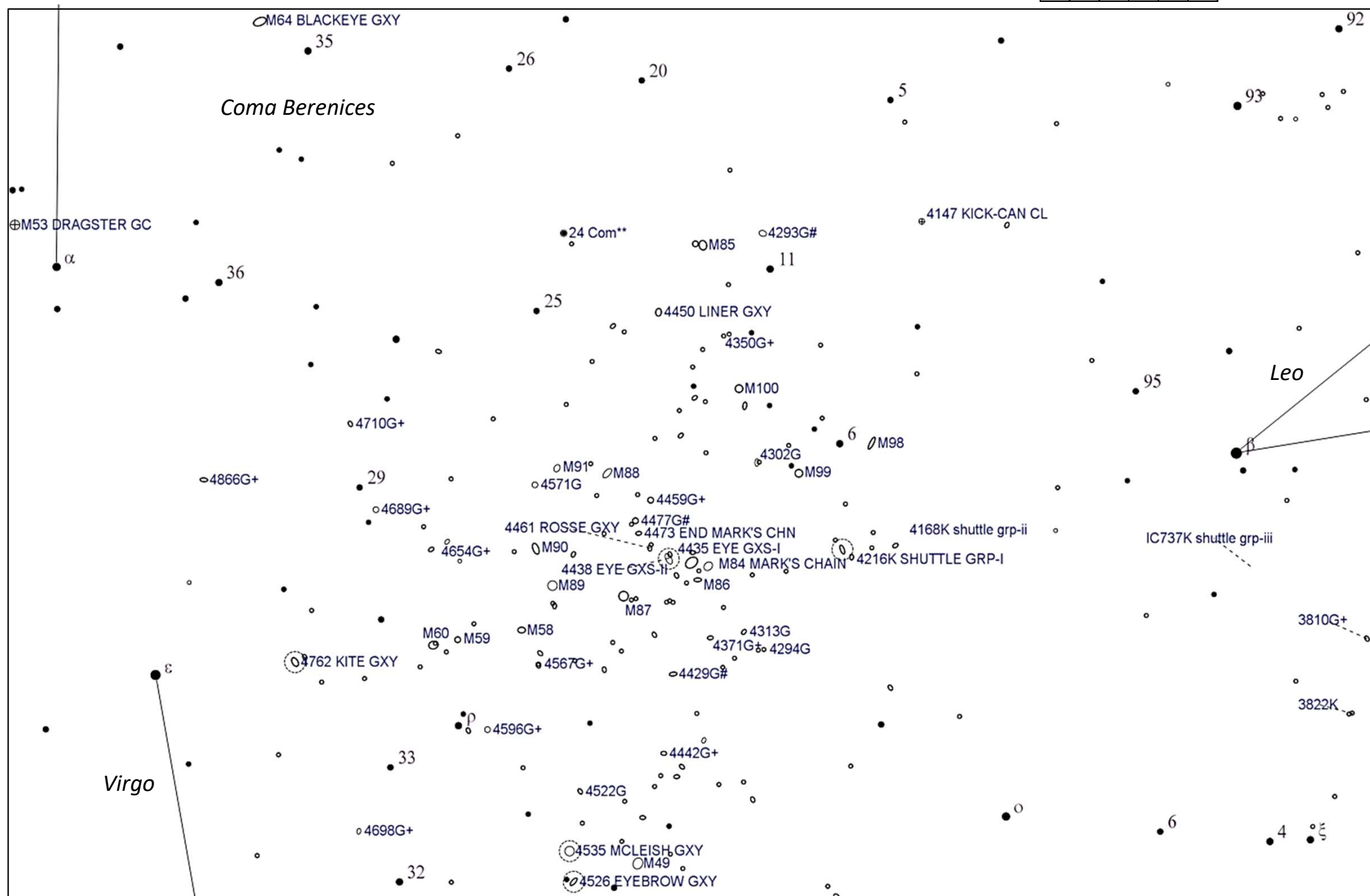
Gemini Map 3

Coma Berenices Map 6

Ursa Major Map 5



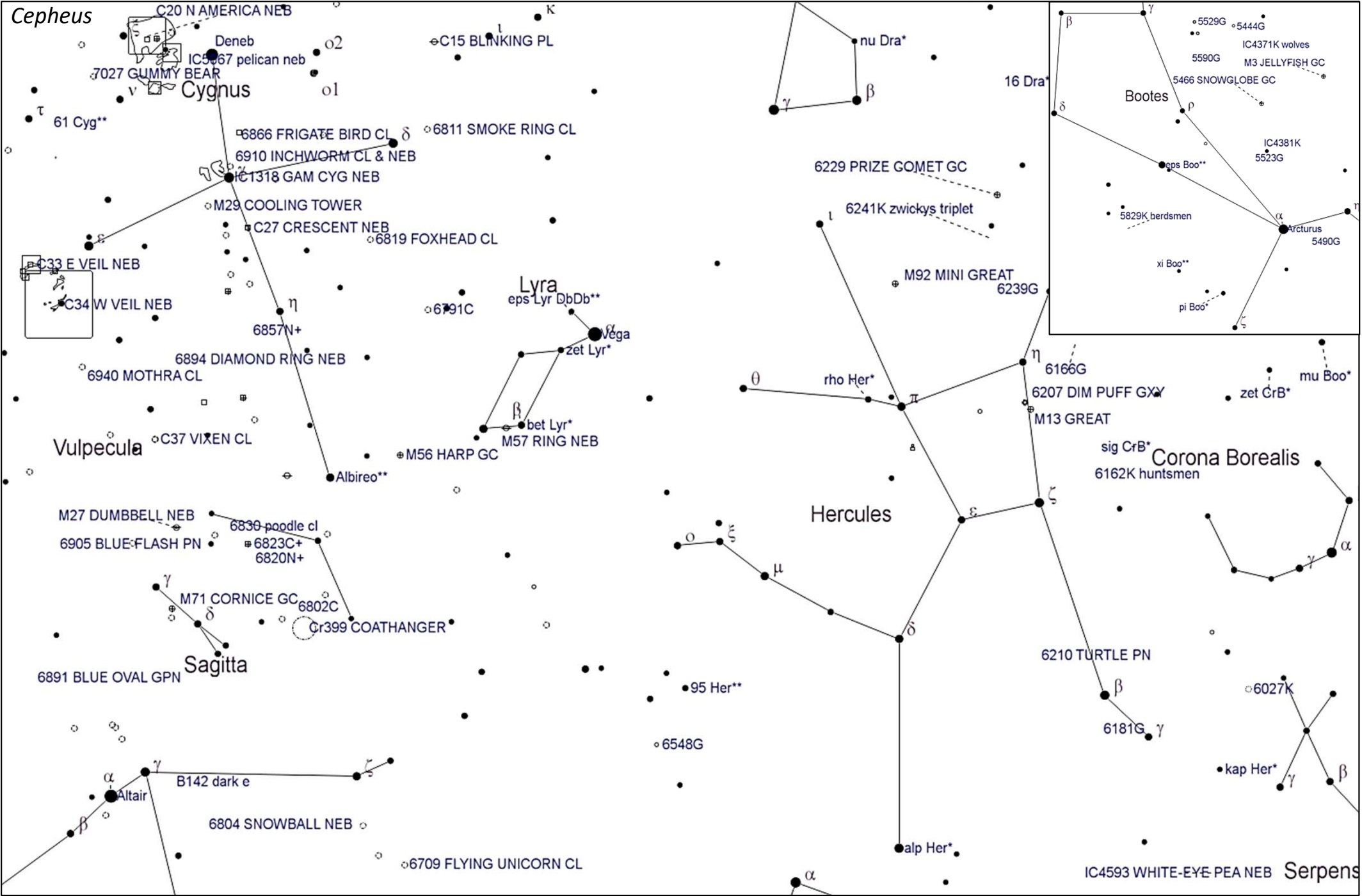
J	F	M	A	M	J	J	A	S	O	N	D
2	0	0	0	23	21						



Map 8 Cygnus Hercules Bootes

J	F	M	A	M	J	J	A	S	O	N	D
6	4	0	0	0	22	21	20	19	18	18	

Draco Map 1



Ophiuchus Map 9

U Maj Map 5

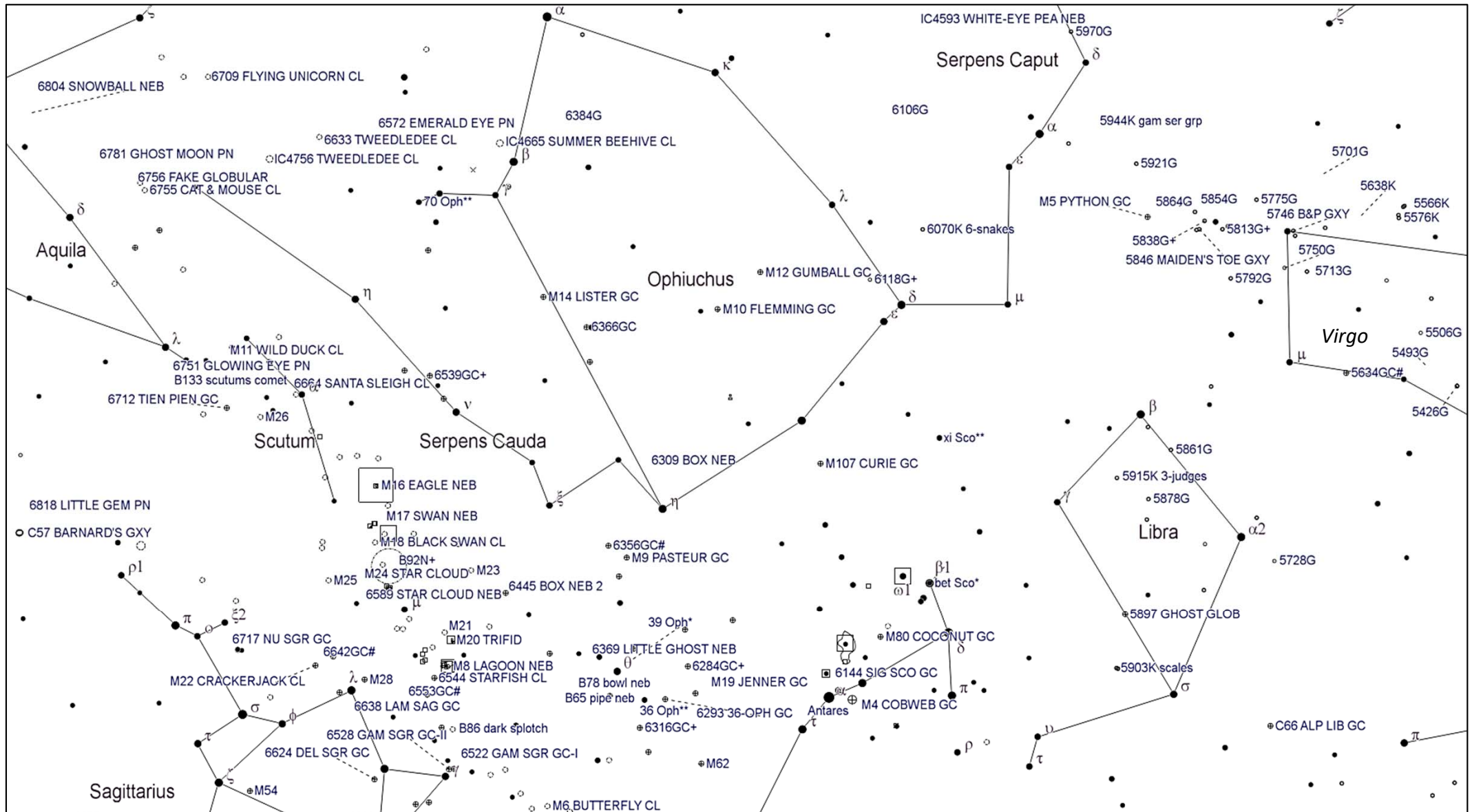
Virgo Map 6

Pegasus Map 10

J F M A M J J A S O N D

J F M A M J J A S O N D

Hercules Map 8



Virgo Map 6

Map 10 Pegasus

J F M A M J J A S O N D

4	2	0	0	22	20	18
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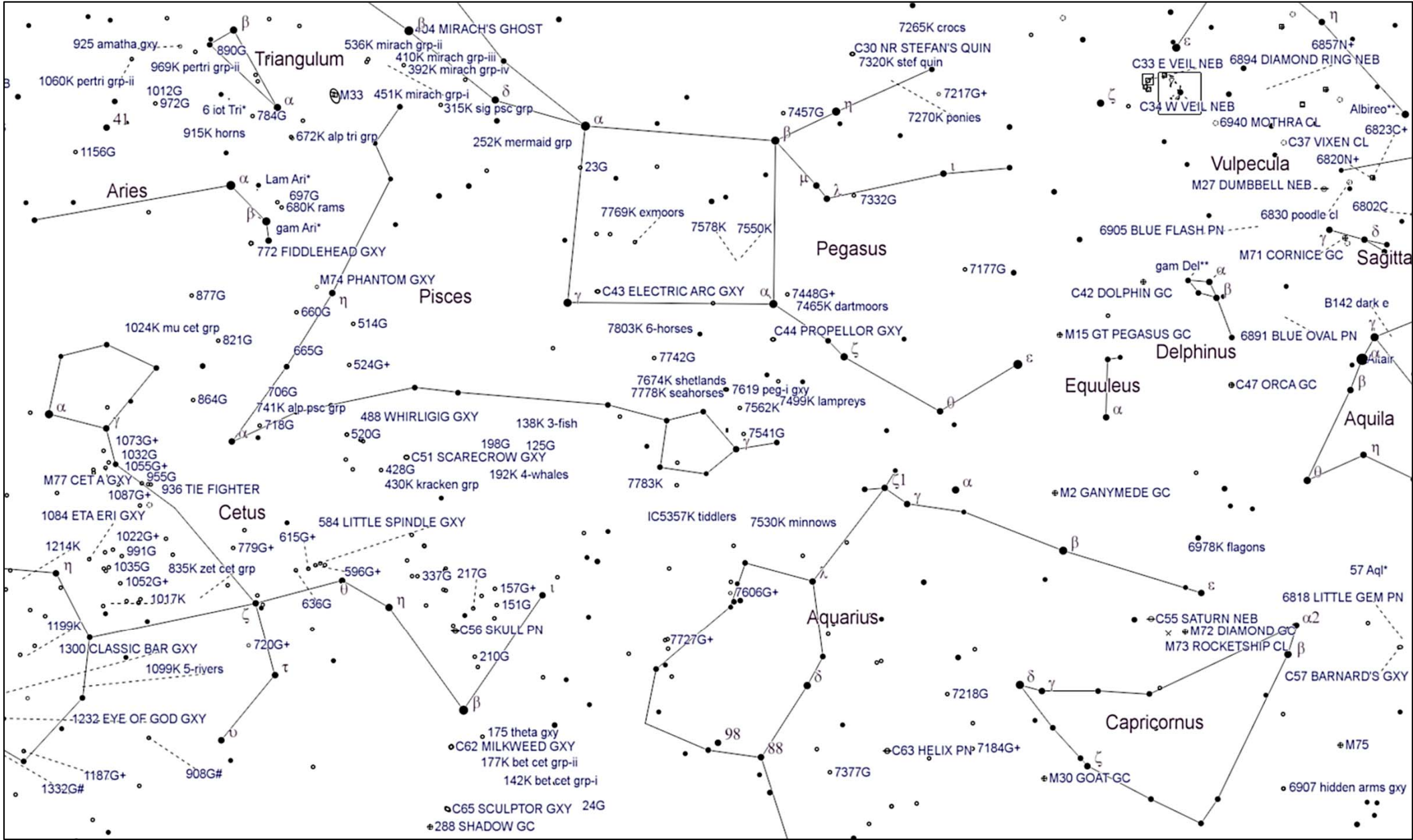
Andromeda Map 2

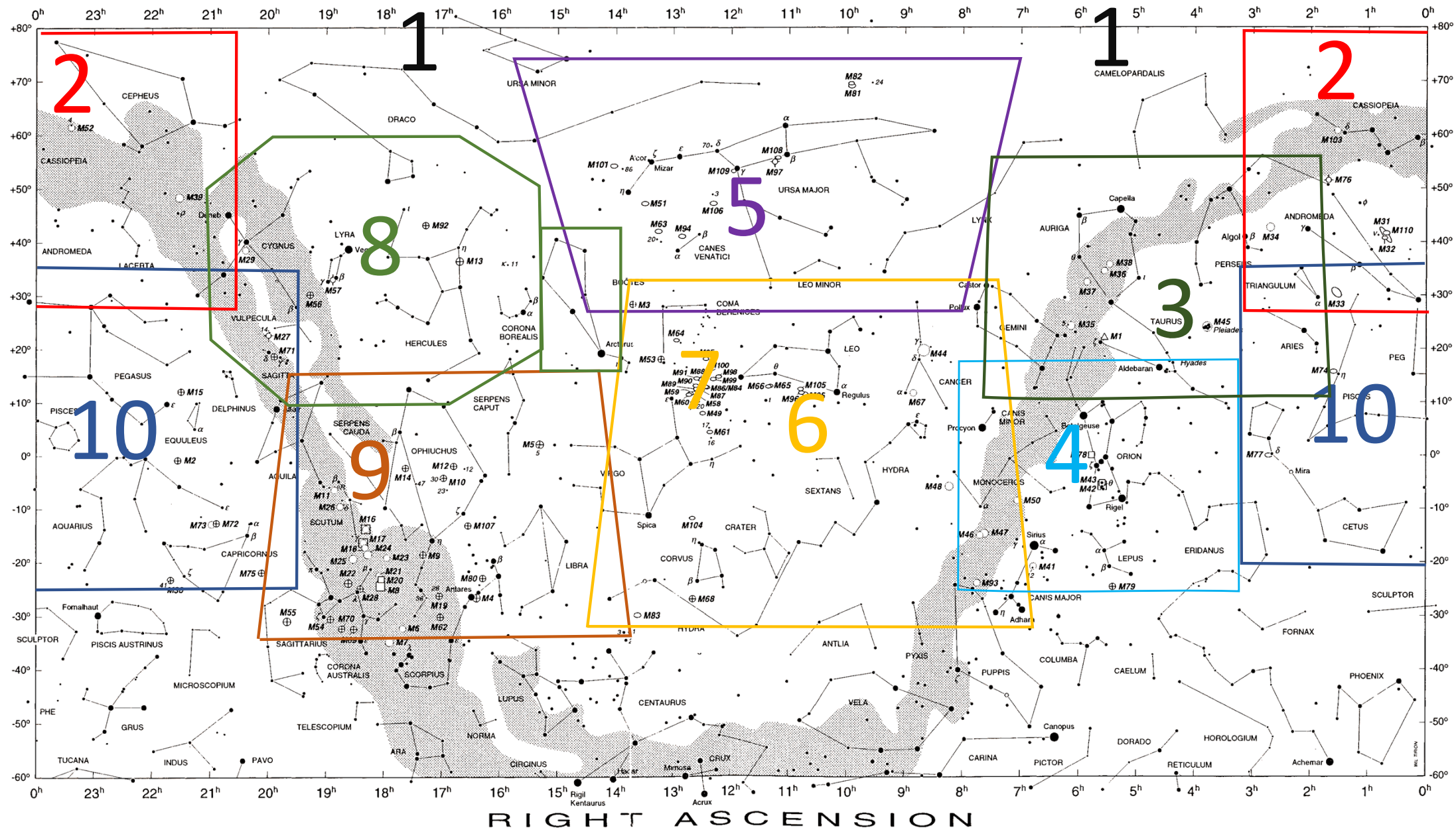
Cygnus Map 8

Sagittarius Map 9

Aries Map 3

Eridanus Map 4





Magnitudes	● ● ● ● ● ● ●	★ ○ Variable stars	○ Open cluster	□ Bright nebula	○ Galaxy
	· -1 0 1 2 3 4 5-6	△ Supernova remnant	⊕ Globular cluster	◇ Planetary nebula	

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
M1	SNR	8.4	6x4	05 34 32	+22 01 52	3	TAU	6.3k	87	Crab Nebula. Supernova remnant irregular potato shape.	☐
M2	GC	6.6	16	21 33 27	-00 49 24	10	AQR	36.2k	96	GANYMEDE GC. Intense core, halo partially resolved in 8". Secret treasure.	☐
M3	GC	6.3	16	13 42 11	+28 23 32	6	CVN	30.6k	97	JELLYFISH GC. Stunning 2nd best in N sky, resolv & intense core. Map 8. Yellow blue L/P.	☐
M4	GC	5.6	26	16 23 35	-26 32 32	9	SCO	6.8k	99	COBWEB GC. Cat's Eye. Pretty resolv. & bar nr Antares. N6293 (SD75) GC n (8' diam).	☐
M5	GC	6.5	17	15 18 34	+02 05 58	9	SER	22.8k	97	PYTHON GC. Spectacular GC well resolved down to a small, intense core.	☐
M6	OC	5.9	15	17 40 21	-32 15 15	9	SCO	2k	67	Butterfly cluster. Naked-eye beautifully rich cluster.	☐
M7	OC	3.6	80	17 53 54	-34 49 00	9+	SCO	1k	68	Very large and bright cluster, easy naked-eye and resolvable in any scope	☐
M8	DN	6.1	90x40	18 03 41	-24 23 49	9	SGR	6.5k	100	Lagoon Neb. Dark lane. 5x5 N6544 (HT89) Starfish CL near.	☐
M9	GC	7.6	9	17 19 12	-18 31 58	9	OPH	26.4k	92	PASTEUR GC. Partially resolved in 8". N6293 (SD77) GC near (10' diam).	☐
M10	GC	7.1	15	16 57 09	-04 06 58	9	OPH	13.4k	96	FLEMMING GC. Rich, highly resolvable cluster with 8". Pair w/ M12.	☐
M11	OC	6.6	14	18 51 06	-06 16 12	9	SCT	6k	66	Wild Duck cluster. Extremely rich faint stars arrowhead. L/P.	☐
M12	GC	7.0	15	16 47 15	-01 57 52	9	OPH	17.6k	96	Gumball. Large bright GC. Well resolved halo. Pair w/ M10	☐
M13	GC	5.8	17	16 41 42	+36 28 41	8	HER	22.2k	98	GREAT. Spectacular resolved GC. Yellow red centre. Green halo. H/P.	☐
M14	GC	7.6	12	17 37 36	-03 15 45	9	OPH	27.4k	93	LISTER GC. Large, mottled appearance. M/P. Not often observed.	☐
M15	GC	6.3	12	21 29 58	+12 10 01	10	PEG	32.6k	96	GT PEGASUS GC. Beautiful. Intense core & well resolved halo. Twin of M2.	☐
M16	OC	6.1	35x28	18 18 48	-13 48 26	9	SER	7k	71	EAGLE NEB. Large outstretched "Eagle" shape with bright cluster.	☐
M17	EN	6.4	46x37	18 20 47	-16 10 18	9	SGR	5k	100	Swan Neb. in rich starfield.	☐
M18	OC	7.1	9	18 19 58	-17 06 07	9	SGR	6k	63	Black Swan. Bright but scattered cluster in a "V" asterism. L/P.	☐
M19	GC	6.8	14	17 02 38	-26 16 05	9	OPH	27.1k	96	JENNER GC. Bright GC resolve in 8 inch. 58"x34" N6369 (HT81) Little Ghost Neb near.	☐
M20	C+N	6.8	29x27	18 02 42	-22 58 19	9	SGR	2.2k	99	Trifid or Clover Nebula. Remarkable dark rift with central multi star.	☐
M21	OC	6.1	13	18 04 13	-22 29 24	9	SGR	3k	66	Bright cluster about 40' NE of Trifid Nebula. H/P.	☐
M22	GC	5.4	24	18 36 24	-23 54 12	9	SGR	10.1k	99	Crackerjack. Wonderful easy res. One of best GC in sky. Lots of surprises.	☐
M23	OC	5.9	27	17 57 05	-18 59 07	9	SGR	4.5k	69	Beautiful cluster with chains and loops, use lowest power.	☐
M24	OC	4.2	120x60	18 16 56	-18 31 52	9	SGR	10k	76	STAR CLOUD. Huge star cloud, visible to naked eye - use binocs. Impressive stellar city.	☐
M25	OC	5.1	32	18 31 47	-19 07 54	9	SGR	2k	72	Large bright cl several colored stars. Look for after image on E side.	☐
M26	OC	8.3	15	18 45 19	-09 23 01	9	SCT	5k	64	Rich cl. N6712 (HT95) GC near (10' diam.) Obscured by star cloud.	☐
M27	PN	7.3	8x6	19 59 36	+22 43 16	8	VUL	1.25k	92	Dumbbell. Best PN. Ghostly bow-tie lobes. Pale green. H/P for interior.	☐
M28	GC	7.0	11	18 24 33	-24 52 11	9	SGR	17.9k	94	Fairly rich tiny charming cluster in a milky way field.	☐
M29	OC	6.7	7	20 23 58	+38 30 28	8	CYG	7.2k	63	Cooling Tower. Small, bright trapezoid. Edges HT102 N Coalsack. L/P.	☐
M30	GC	7.4	12	21 40 22	-23 11 45	10	CAP	24.8k	94	GOAT GC. Bright GC with several prominent star lanes in halo.	☐
M31	Sb	3.8	190x61	00 42 44	+41 16 09	2	AND	2.2M	100	Awesome sight in all scopes. Great Andromeda gxy.	☐
M32	E	8.3	9x7	00 42 42	+40 52 55	2	AND	2.2M	91	Ell. gxy; small, bright companion to M31. Featureless round glow.	☐
M33	Sc	5.9	71x42	01 33 51	+30 40 37	2	TRI	2.3M	100	Invisible in bright skies, delightful in dark. Triangulum gxy. Pinwheel Gxy	☐
M34	OC	5.3	35	02 42 07	+42 45 46	3	PER	1.4k	71	Very bright and large - visible naked-eye. Dramatic in M/P. Spray of dbls.	☐
M35	OC	5.2	28	06 09 05	+24 20 19	3	GEM	2.8k	71	Wonderful. OC N2158 nrby. Rows & loops. Scallop shell figure of 8 in L/P.	☐
M36	OC	6.1	12	05 36 18	+34 08 27	3	AUR	4.1k	65	Pinwheel Cluster. Bright, scattered. Pair of dbls straddle center. M/P.	☐
M37	OC	5.8	24	05 52 18	+32 33 11	3	AUR	4.6k	69	Nice rich symm cl Auriga's best. Like GC. Topaz jewel at center. Waterbug.	☐
M38	OC	6.7	21	05 28 42	+35 51 18	3	AUR	4.2k	67	Starfish Cluster. Sand dollar. Bright w/ cross. 30' to N1907 puff.	☐
M39	OC	4.8	32	21 31 48	+48 26 17	2	CYG	825	72	Large bright cl, L/P or binocs. Follow each apex to 3 mini asterisms.	☐
M40	**	9.0	0.8	12 22 24	+58 05 00	5	UMA	0.3k	68	Winnecke 2 - pair of mag 9 stars at 50" separation	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
M41	OC	4.5	38	06 46 00	-20 45 15	4	CMA	2.4k	74	HANGING BAT CL. V bright cluster 4° S of Sirius - use low power. Hanging bat. Red stars.	☐
M42	DN	4.0	66x60	05 35 16	-05 23 23	4	ORI	1.6k	100	Orion Nebula - best emission nebula in northern sky!! Green / red.	☐
M43	DN	8.5	20x15	05 35 31	-05 16 03	4	ORI	1.6k	97	Comma shaped emission neb forms "head of the bird", just sth of M42.	☐
M44	OC	3.3	95	08 40 22	+19 40 19	6	CNC	0.5k	77	Beehive. Large, naked-eye cluster, use lowest power. Lots of dbls.	☐
M45	OC	1.4	110	03 47 00	+24 07 00	3	TAU	0.4k	81	Pleiades. Nebulosity e.g. around Merope (btm left).	☐
M46	OC	6.1	27	07 41 47	-14 49 36	4	PUP	5.4k	69	CL & PN. Glorious includes PN NGC 2438 in H/P. Spiral structure in L/P.	☐
M47	OC	4.4	30	07 36 35	-14 29 57	4	PUP	1.6k	75	Impressive cl, 3 dbls & 2 orange stars. N2423 cl connected by chain to N.	☐
M48	OC	5.7	54	08 13 43	-05 45 02	6	HYA	1.5k	75	ALLIGATOR CL. Large, scattered group with a richer row of stars. Dark notches.	☐
M49	E	8.4	10x8	12 29 47	+08 00 02	7	VIR	60M	92	Bright elliptical with a prominent core. Most luminous in Virgo cluster.	☐
M50	OC	6.0	16	07 02 40	-08 22 51	4	MON	3k	66	DNA CL. Large scdtr cl. 4x3 N2316 (SD32) near. DNA strand 120' long to N2335.	☐
M51	Sbc	8.3	11x7	13 29 53	+47 12 43	5	CVN	37M	93	Whirlpool Gxy & companion, spectacular spiral. Look for bridge in H/P.	☐
M52	OC	7.0	13	23 24 48	+61 36 35	2	CAS	7k	64	Scorpion. Uniform rich cl. 9x6 N Lagoon Neb N7538 (SD108) & C11 near.	☐
M53	GC	7.6	13	13 12 55	+18 10 09	6	COM	56.4k	94	DRAGSTER GC. Intermediate concentration GC. Near M64. Dragster asterism nearby.	☐
M54	GC	7.8	9	18 55 06	-30 29 00	9	SGR	82.8k	74	Bright globular with an intense core but difficult to resolve	☐
M55	GC	5.9	19	19 40 00	-30 58 00	9+	SGR	16.6k	79	Very large, loosely compressed globular, easily resolved	☐
M56	GC	8.3	7	19 16 36	+30 11 04	8	LYR	31.6k	88	HARP GC. Small grainy GC betw Albireo & M57. Perfect snowball darkness around.	☐
M57	PN	9.0	76"	18 53 35	+33 02 43	8	LYR	4.1k	81	Ring Nebula. Pretty little smoke ring. H/P for dim interior.	☐
M58	SBb	9.6	6x5	12 37 44	+11 49 05	7	VIR	60M	85	Oval galaxy with an bright core. Starting point for tour of Virgo galaxies.	☐
M59	E	9.6	5x4	12 42 02	+11 39 49	7	VIR	60M	84	Bright oval, pair with M60 25' E	☐
M60	E1	8.8	7x6	12 43 40	+11 33 10	7	VIR	60M	87	Bright ell. in a double system with 4647 off NW side. Pair w M59.	☐
M61	SBbc	9.8	7x6	12 21 55	+04 28 25	6	VIR	60M	95	SWELLING SPIRAL. Bright face-on evident spiral structure. Visually pleasing. Compact. H/P.	☐
M62	GC	6.5	14	17 01 12	-30 07 00	9	OPH	21.5k	76	Unusual asymmetric appearance with a flattened SE region	☐
M63	Sbc	8.8	13x7	13 15 49	+42 02 45	5	CVN	37M	93	Sunflower. Bright spiral big halo. Detailed arms H/P. 9th mag star 4' W.	☐
M64	Sab	8.6	10x5	12 56 44	+21 41 59	7	COM	12M	91	Black-Eye Gxy. Name derives from dark patch NE of the core. H/P.	☐
M65	SBa	9.3	10x3	11 18 56	+13 06 32	6	LEO	35M	90	Spiral, regular oval in Leo Trio (M66 N3628). Joy to see hard to observe.	☐
M66	SBb	8.7	9x4	11 20 15	+12 59 30	6	LEO	35M	90	Lovely odd spiral bright in Leo Trio. Streaky M/P tough to see features.	☐
M67	OC	6.7	30	08 51 20	+11 49 43	6	CNC	2.25k	69	King Cobra GC. Beautifully rich ancient cluster at low power.	☐
M68	GC	7.7	12	12 39 28	-26 45 35	6	HYA	32.3k	93	SEA SERPENT GC. Starts to resolve well in 8" scope. Beauty in M/P.	☐
M69	GC	8.1	7	18 31 24	-32 21 00	9	SGR	25.4k	73	Bright and lively globular 4.5' SE of a mag 8 star	☐
M70	GC	8.5	8	18 43 12	-32 18 00	9+	SGR	28k	73	Bright core, use high power to resolve halo	☐
M71	GC	8.5	7	19 53 46	+18 47 42	8	SGE	11.7k	88	CORNICE GC. Grainy loose GC. Rich in faint stars. Snow wedge shape.	☐
M72	GC	9.4	6	20 53 28	-12 32 13	10	AQR	52.8k	84	DIAMOND GC. Mottled non-symmetrical GC with a bright core. H/P. Tiny tough.	☐
M73	AST	9.4	3	20 58 56	-12 38 08	10	AQR	?	82	Rocketship shape. Four stars mag 11-12 in a "Y" asterism.	☐
M74	Sc	9.6	11x10	01 36 42	+15 47 01	10	PSC	5 35M	91	Phantom gxy. Faint face-on spiral - needs dark skies. Tough.	☐
M75	GC	8.5	6	20 06 05	-21 55 20	9	SGR	57.7k	86	Bright core but difficult to resolve. Hard to find.	☐
M76	PN	10.5	67"	01 42 20	+51 35 32	2	PER	3.4k	89	Little Dumbbell Neb. Unusual 2 lobe hourglass. Surprising / mysterious.	☐
M77	Sb	8.9	7x6	02 42 41	-00 01 48	10	CET	60M	87	Cetus A. Unusually intense core - Seyfert gxy. Chaotic spiral.	☐
M78	RN	8.6	8x6	05 46 46	+00 05 46	4	ORI	1.6k	90	COMET NEB. Large, bright ref nebula around 2 mag 10 stars In Barnard's Loop (SD26).	☐
M79	GC	7.9	6	05 24 11	-24 31 27	4	LEP	39.8k	87	HARE GC. Compact but rich GC. H/P starfish arms.	☐
M80	GC	7.4	9	16 17 03	-22 59 30	9	SCO	27.4k	92	Coconut. GC w/ dense core - stark contrast w/ nrby M4. H/P.	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
M81	Sab	7.2	27x14	09 55 33	+69 04 55	5	UMA	11M	98	Bode's Neb. Lovely big spiral, pair with M82. Egg shape. Spiral in A/V.	☐
M82	Sd	8.5	11x4	09 55 53	+69 41 46	5	UMA	11M	97	Cigar. Bright edge-on with unusual dark cuts. Stunning in M/P.	☐
M83	SBc	7.5	13x12	13 37 01	-29 52 56	6	HYA	10M	94	STH PINWHEEL GXY. Large, bright spiral with arm structure in larger scopes	☐
M84	E	9.2	7x6	12 25 04	+12 53 13	7	VIR	60M	86	MARK'S CHAIN. Bright ell. gxy at western end of Markarian's chain, nr M86. Rich gxy area.	☐
M85	Sa	9.2	7x6	12 25 24	+18 11 29	7	COM	60M	86	Bright oval with a prominent core, pair w/ N4394 8' E. Spiral structure.	☐
M86	E3	9.1	9x6	12 26 12	+12 57 46	7	VIR	60M	90	Bright ell. gxy in Mark's chain, nr M84.	☐
M87	E	8.8	7x7	12 30 49	+12 23 28	7	VIR	60M	87	Bright ell. gxy in Mark's chain. Intense core. Centre of gxy cluster.	☐
M88	Sb	9.7	7x4	12 31 59	+14 25 13	7	COM	60M	86	Bright, elongated spiral w/ intense core. Like Andromeda but compact.	☐
M89	E	9.8	5x5	12 35 40	+12 33 23	7	VIR	60M	84	High surface brightness elliptical with an intense core. Pair w/ M90.	☐
M90	SBab	9.6	10x4	12 36 50	+13 10 47	7	VIR	60M	90	Large, very elongated spiral. Pair w/ M89. Strong oval glow.	☐
M91	SBb	10.0	5x4	12 35 26	+14 30 47	7	COM	60M	93	Fairly large, bright oval, M88 lies 50' WSW. Barred spiral M/P.	☐
M92	GC	6.5	11	17 17 07	+43 08 12	8	HER	26.1k	95	MINI GREAT. Beautiful GC well resolved in 8" w/ long streaming star lanes. M/P.	☐
M93	OC	6.2	22	07 44 29	-23 51 11	4	PUP	4.5k	68	Spider's Web. Bright, rich cl. Yellow orange stars. Like spider on web.	☐
M94	Sab	8.1	11x9	12 50 53	+41 07 14	5	CVN	14.5M	93	Croc's Eye. Spiral gxy. Small, bright. Ring around core intriguing in H/P.	☐
M95	SBb	9.9	7x5	10 43 58	+11 42 14	6	LEO	38M	85	Barred spiral w/ M96&105. Part of Leo I. L/P. Broken ring spiral structure.	☐
M96	SBab	9.3	8x5	10 46 46	+11 49 12	6	LEO	38M	88	One armed barred spiral in Leo I with M95&105. See bar in H/P.	☐
M97	PN	10.1	170"	11 14 48	+55 01 09	5	UMA	2.6k	81	Owl Neb. Big odd PN 2 low contrast eyes. Sweep eyes over it to see "eyes".	☐
M98	SBb	10.0	10x2	12 13 48	+14 54 01	7	COM	60M	90	Bright, elongated galaxy 30' W of 6 Comae Berenices. Edge on spiral.	☐
M99	Sc	9.5	5x5	12 18 50	+14 25 59	7	COM	60M	84	Large, bright face-on pinwheel spiral structure visible. Pair w/ M100.	☐
M100	SBbc	9.7	7x6	12 22 55	+15 49 19	7	COM	60M	86	Largest spiral in the Virgo cluster. Pair w/ M99. Difficult object.	☐
M101	SBc	8.5	29x27	14 03 13	+54 21 56	5	UMA	24M	98	Pinwheel Gxy. Face-on spiral - knots and hint of spiral arms in H/P.	☐
M102	SOa	9.9	5x2	15 06 30	+55 46 00	5	DRA	40M	94	NGC5866. Bright, bulging core & thin dust lane, sub for M102. Spindly in M/P. Spindle Gxy	☐
M103	OC	7.4	6	01 33 22	+60 39 29	2	CAS	8k	63	Small but distinctive wedge-shaped cluster. 6x6 N659 (HT7) cl near.	☐
M104	Sa	8.2	9x4	12 39 59	-11 37 23	6	VIR	50M	97	Sombrero Gxy. Spectacular edge-on w/ prominent dust lane. Stunning H/P.	☐
M105	E	9.1	5x5	10 47 50	+12 35 54	6	LEO	38M	95	Ell. Gxy perfect oval; w/ M95 & M96. Leo I. N3384 & 3389 in field.	☐
M106	SBbc	8.4	19x7	12 18 57	+47 18 14	5	CVN	25M	99	BEAGLE GXY. Beautiful long spiral with s-shape arm structure in L/P. View core in H/P.	☐
M107	GC	8.3	13	16 32 32	-13 03 13	9	OPH	19.6k	98	CURIE GC. Affected by interstellar dust. Only a few stars resolved in 8".	☐
M108	SBc	10.2	9x2	11 11 31	+55 40 27	5	UMA	45M	96	Surfboard. Large interesting edge-on. Star at center. H/P. Few features.	☐
M109	SBbc	10.0	8x5	11 57 36	+53 22 28	5	UMA	55M	96	VACUUM GXY. Largest of M81 grp. Typical bar spiral 40' to Gam UMa. 60' to 3953 'twin'. M/P.	☐
M110	E	8.4	22x11	00 40 22	+41 41 07	2	AND	2.2M	99	Ell. gxy; irregularly shaped dimmer companion to M31. H/P.	☐
NGC23	SBa	12.2	2x2	00 09 53	+25 55 26	10	PEG	210M	30	14M N26 is 0.1 deg SE 3 S st + neb	☐
NGC24	Sc	11.7	6x2	00 09 56	-24 57 49	10	SCL	25M	27	Nearly edge-on bright large spiral	☐
NGC40	PN	10.7	48"	00 13 01	+72 31 21	1	CEP	3700	83	C2 Bow-tie Neb. Mag 11.5 central star in easy halo.	☐
NGC51	S0	13.1	2	00 14 35	+48 15 22	2	AND	246M	11	GXTR1 & GXTR2 brightest in group of 6 including NGC 49 and NGC 48 LITTLE SISTERS	☐
NGC55	SBm	7.9	32x6	00 15 08	-39 13 10	10+	SCL	6.2M	81	C72 Huge irregular edge-on with faint east section Sculptor Galaxy Group	☐
NGC125	SOa	12.6	1x1	00 28 50	+02 50 19	10	PSC	244M	9	NGC 128 Group	☐
NGC129	OC	7.2	21	00 29 58	+60 12 42	2	CAS		33	Contains DL Cas ; 50 stars bright rich with small triangle of bright stars at centre	☐
NGC134	SBbc	10.3	9x2	00 30 22	-33 14 42	10+	SCL	60M	53	SD2 Large edge-on with bright core and small companion GIANT SQUID GALAXY	☐
NGC138	Sa	13.7	1	00 30 59	+05 09 35	10	PSC	547M	8	GXTR3 13.7 14.3 14.3 N138/39/41 3-FISH	☐
NGC142	SBb	13.8	1	00 31 08	-22 37 10	10	CET	368M	7	GXTR4 13.7 14.4 13.7 N142/43/44 BET CET GRP-I	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC147	E5p	9.5	18x11	00 33 12	+48 30 26	2	CAS	2.4M	76	C17 Thorin Gxy. Lens dwarf satellite of M31, pair w/ C18. Tough. Dark sky L/P.	☐
NGC151	SBbc	11.8	4x2	00 34 02	-09 42 20	10	CET	172M	24	Two long arms	☐
NGC157	SBbc	10.5	4x3	00 34 46	-08 23 46	10	CET	70M	48	Superman galaxy	☐
NGC175	SBab	12.4	2x2	00 37 21	-19 56 04	10	CET	180M	14	Theta structure	☐
NGC177	Sab	13.2	2	00 37 34	-22 32 57	10	CET	176M	12	GXTR5 13.8 13.8 13.2 N168/172/177 BET CET GRP-II	☐
NGC185	E3	9.4	12x10	00 38 58	+48 20 14	2	CAS	2.0M	95	C18 Gimli Gxy. Round dwarf M31 satellite, pair w/ C17. Bracketed by 2 stars.	☐
NGC188	OC	8.3	14	00 47 30	+85 15 30	1	CEP	5400	62	C1 N POLE CL. Dim, ancient open cl. nr Polaris. Forms skeleton hand.	☐
NGC189	OC	8.8	5x5	00 39 36	+61 05 42	2	CAS	3500	26	HT1 HOSKINS CL	☐
NGC192	SBa	12.6	2	00 39 14	+00 51 51	10	CET	190M	12	HCG007 12.6 12.9 12.9 14.1 N192 N196 N201 N197 4-WHALES	☐
NGC198	Sc	13.4	1x1	00 39 22	+02 47 52	10	PSC	242M	7	NGC 182 group; small face-on surrounded by faint galaxies	☐
NGC210	SBb	10.9	5	00 40 35	-13 52 21	10	CET	75M	1	Outer arms form encircling ring	☐
NGC217	S0a	12.9	3x1	00 41 33	-10 01 20	10	CET	183M	16	Edge-on galaxy	☐
NGC225	OC	8.0	12	00 43 36	+61 46 00	2	CAS	2143	58	HT2 Sailboat Cluster. 5x5 NGC 189 (HT1) near.	☐
NGC246	PN	9.6	245"	00 47 03	-11 52 17	10	CET	2100	83	C56 SKULL PN. Large annular PN with several stars involved.	☐
NGC247	SBcd	9.2	21x7	00 47 08	-20 45 36	10	CET	8.1M	98	C62 Milkweed Gxy. Very large, elongated galaxy in Sculptor group.	☐
NGC252	S0a	12.4	1	00 48 02	+27 37 24	2	AND	227M	11	GXTR6 Brightest in group 12.3 14.6 13.5 N252/58/60 MERMAID GRP	☐
NGC253	SBc	7.2	28x7	00 47 33	-25 17 15	10	SCL	13M	99	C65 Sculptor Gxy. Best in South Sky. Very bright edge-on with extensive dust.	☐
NGC278	SBb	11.1	2x2	00 52 05	+47 33 03	2	CAS	26M	57	Bright, round elliptical	☐
NGC281	EN	7.3	35x30	00 52 54	+56 37 30	2	CAS	10k	98	HT3 Pacman Nebula around open cluster.	☐
NGC288	GC	8.2	14	00 52 46	-26 35 51	10	SCL	30k	75	HT4 Well resolved globular 1.7" SE of NGC 253 SHADOW GC	☐
NGC300	Scd	8.5	22x16	00 54 53	-37 41 03	10	SCL	6.8M	76	C70 Very large, face-on spiral S-shaped STH PINWHEEL	☐
NGC315	E2	11.5	3x2	00 57 48	+30 21 09	10	PSC	227M	36	GXTR7 13.0 11.2 14.2 N311/15/18 SIG PSC GRP	☐
NGC337	SBcd	11.8	3x2	00 59 50	-07 34 43	10	CET	76M	20	Coarse spiral pattern	☐
NGC392	ES0	12.7	1	01 08 23	+33 08 00	10	PSC	216M	10	GXTR8 12.7 14.0 14.5 N392/94/97 MIRACH GRP-IV	☐
NGC404	ES0	10.6	4x4	01 09 27	+35 43 06	2	AND	11M	82	HT5 Mirach's Ghost. Bright elliptical located 6' SE of Beta And.	☐
NGC410	E	11.7	2x1	01 10 58	+33 09 07	10	PSC	243M	35	GXTR9 13.4 11.5 13.5 N407/10/14 MIRACH GRP-III	☐
NGC428	SBm	11.6	4x3	01 12 55	+00 58 54	10	CET	53M	24	Patchy central region	☐
NGC430	E2	12.5	1	01 12 60	-00 15 09	10	CET	244M	10	GXTR10 12.8 13.4 12.5 N426/29/30 KRACKEN GRP	☐
NGC436	OC	8.9	6	01 15 58	+58 48 42	2	CAS	7900	43	Rich and compact - distinctive group	☐
NGC451	Sc	13.9	0.7	01 16 12	+33 03 49	10	PSC	224M	5	GXTR11 14.0 14.2 13.9 N447/49/51 MIRACH GRP-I	☐
NGC457	OC	6.6	13	01 19 33	+58 17 42	2	CAS	7922	68	C13 ET Cluster. Beautiful bird-shaped including mag 5 star.	☐
NGC488	Sb	10.4	5x4	01 21 47	+05 15 21	10	PSC	95M	83	SD3 Whirligig best in group. Small pretty face-on spiral. OK suburbs. M/P.	☐
NGC514	SBc	11.9	4x3	01 24 03	+12 55 03	10	PSC	114M	24	Nice nearly face-on spiral	☐
NGC520	Sap	11.4	5x2	01 24 35	+03 47 39	10	PSC	104M	33	Unusual distorted spiral Peculiar M82 type	☐
NGC524	S0a	10.7	3x3	01 24 48	+09 32 19	10	PSC	109M	52	Bright elliptical in a large group	☐
NGC536	SBb	12.4	3	01 26 22	+34 42 12	2	AND	238M	17	HCG010 12.4 12.1 13.8 14.7 N536 N529 N531 N542 MIRACH GRP-II	☐
NGC559	OC	9.2	7	01 29 31	+63 18 06	2	CAS		56	C8 Ghost's Goblet. Colorful cup-shaped cluster.	☐
NGC584	E4	10.8	4x2	01 31 21	-06 52 02	10	CET	76M	70	HT6 Bright elliptical with faint companion LITTLE SPINDLE GALAXY	☐
NGC596	E4	11.2	4	01 32 52	-07 01 55	10	CET	86M	41	12.5M N600 is 0.4 deg S el very small circular	☐
NGC613	SBbc	10.2	6x4	01 34 18	-29 25 07	10+	SCL	68M	56	Bright elongated galaxy with prominent core	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC615	Sb	11.8	4	01 35 06	-07 20 25	10	CET	85M	42	Small elusive	☐
NGC636	E3	11.8	3x2	01 39 06	-07 30 46	10	CET	85M	20	Group with 586, 596, 600 and 615	☐
NGC654	OC	7.0	5	01 43 59	+61 52 58	2	CAS	9400	54	SD4 Rich in faint stars FUZZY BUTTERFLY	☐
NGC659	OC	8.3	6x6	01 44 24	+60 40 12	2	CAS	7430	46	HT7 30* mags 12... Near N663	☐
NGC660	Sba	11.7	8x3	01 43 01	+13 38 35	10	PSC	39M	28	Polar Ring Galaxy	☐
NGC663	OC	7.2	16	01 46 17	+61 13 06	2	CAS	2600	68	C10 Horseshoe. Rich cluster with several dbls. Near N654 (SD4) 6' diam OC.	☐
NGC665	S0	12.5	2x2	01 44 56	+10 25 22	10	PSC	249M	14	Brightest in group	☐
NGC672	SBc	11.0	7x3	01 47 53	+27 25 56	2	TRI	7M	59	GXTR14 Large, diffuse spiral in a group with N672 & IC1727; ALP TRI GRP	☐
NGC680	E1	11.9	2	01 49 47	+21 58 16	10	ARI	129M	13	GXTR15 12.2 11.9 14.3 N678/80/I1730 RAMS	☐
NGC697	SBbc	12.2	4	01 51 18	+22 21 27	10	ARI	142M	4	Brightest in group	☐
NGC706	Sc	12.6	2x1	01 51 50	+06 17 48	10	PSC	229M	13	NGC 676 group	☐
NGC718	SBa	11.9	2x2	01 53 13	+04 11 45	10	PSC	80M	15	Two smooth arms	☐
NGC720	E5	10.6	4	01 53 00	-13 44 19	10	CET	80M	43	Small round brt nucleus	☐
NGC741	E0	11.5	3x3	01 56 21	+05 37 44	10	PSC	256M	36	GXTR16 Brightest in group;UGC 1413 11.2 14.3 15.1p N741/42/I1751 ALP PSC GRP	☐
NGC752	OC	5.8	50	01 57 35	+37 50 00	2	AND		72	C28 ALMACH CL. Very large, bright cluster binocs. Near Almach (Gam And). Colorful pairs.	☐
NGC772	Sb	10.5	7x4	01 59 20	+19 00 27	10	ARI	105M	84	HT8 FIDDLEHEAD GXY. Oval spiral bright core. N770 visible in M/P. Apostrophe shape.	☐
NGC779	SBb	11.3	4x1	01 59 43	-05 57 51	10	CET	63M	42	Nearly edge-on spiral	☐
NGC784	SBd	11.7	7x2	02 01 17	+28 50 17	2	TRI	15M	15	Long edge-on galaxy	☐
NGC821	E6	11.1	3x2	02 08 21	+10 59 41	10	ARI	80M	31	Bright core, near bright star	☐
NGC835	SBabj	12.1	1	02 09 25	-10 08 07	10	CET	187M	11	HCG016 Contact P w NGC 833 12.1 12.7 13 13.1 N835 N833 N838 N839 ZET CET GRP	☐
NGC864	SBc	10.9	5x3	02 15 28	+06 00 07	10	CET	58M	9	Face-on spiral	☐
NGC869	OC	4.7	18 each	02 19 04	+57 08 06	2	PER	6780	75	C14 DOUBLE CL. Famous Double Cluster (w/ 884). Red stars. 25' sep.	☐
NGC877	SBbc	11.9	2x2	02 17 60	+14 32 38	10	ARI	162M	1	Brightest in group of NGC 870;871;876;877	☐
NGC890	ESB0	11.7	3x2	02 22 01	+33 15 58	2	TRI	183M	21	Blob galaxy with bright core. Edge-on 15' away	☐
NGC891	Sb	10.1	13x3	02 22 33	+42 20 50	3	AND	32M	95	C23 OUTER LIMITS GXY. Beauty edge-on w/ dark lane. From Outer Limits TV show. Thin streak M/P.	☐
NGC896	EN		27x13	02 25 28	+62 01 09	2	CAS		38	Western knot of HEART NEBULA	☐
NGC908	SBc	10.5	6x3	02 23 05	-21 14 00	10	CET	60M	61	HT9 sp elongated evenly brt large	☐
NGC915	S0	14.0	0.7x0.7	02 25 46	+27 13 18	10	ARI	202M	4	GXTR18 13.9 14.0 14.5 N915/16/19 HORNS	☐
NGC925	SBcd	10.3	11x6	02 27 17	+33 34 43	2	TRI	30M	71	Large, elongated spiral - look for bar.	☐
NGC936	SB0a	10.4	5x4	02 27 38	-01 09 23	10	CET	66M	78	SD7 TIE FIGHTER. Tie-fighter gxy. Barred spiral use H/P. Unusually bright core.	☐
NGC949	Sb	11.8	3x2	02 30 49	+37 08 09	2	TRI	17M	28	Bright core	☐
NGC955	Sab	12.0	3x0.9	02 30 33	-01 06 30	10	CET	56M	1	Poss edge-on S0 lens shape	☐
NGC957	OC	7.5	11	02 33 21	+57 33 36	2	PER		30	Fairly rich - near Double Cluster	☐
NGC969	S0	12.3	2	02 34 08	+32 56 47	2	TRI	207M	12	GXTR19 12.3 14.7 12.7 N969/70/74 PERTRI GRP-II	☐
NGC972	Sab	11.7	3x2	02 34 13	+29 18 37	10	ARI	59M	28	Coarse spiral pattern w irregular dust lanes	☐
NGC991	SBc	11.9	3x3	02 35 32	-07 09 16	10	CET	70M	20	Face-on mottled	☐
NGC996	E0	13.0	1	02 38 40	+41 38 50	2	AND	211M	9	GXTR22 13.0 13.5 13.9 N996/99/1001 PERSAND GRP	☐
NGC1003	Sc	11.6	6x2	02 39 16	+40 52 20	2	PER	19M	34	Cigar-shaped. Small comp at 15'	☐
NGC1012	S0a	12.3	3x1	02 39 14	+30 09 05	10	ARI	45M	18	Bright large core	☐
NGC1022	SBa	11.5	2x1	02 38 33	-06 40 39	10	CET	67M	39	Small with prominent bar	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC1023	ESB0	9.8	9x3	02 40 24	+39 03 48	3	PER	36M	88	HT10 Perseus Lenticular. Impressive with bright, bulging core. M/P. C23 nearby.	☐
NGC1024	Sab	12.1	4	02 39 12	+10 50 52	10	ARI	162M	23	GXTR23 12.1 14.3 13.1 N1024/28/29 MU CET GRP	☐
NGC1032	S0a	12.2	3x1	02 39 23	+01 05 37	10	CET	124M	31	Edge-on hamburger style with dust lane. Companion at 4.3'	☐
NGC1035	Sc	12.4	2x1	02 39 29	-08 07 57	10	CET	57M	15	Nearly edge-on spiral	☐
NGC1052	E4	10.9	3x2	02 41 05	-08 15 17	10	CET	69M	51	Small but bright core. Impressive large face-on spiral N1042 at 15'	☐
NGC1055	SBb	11.1	7x2	02 41 45	+00 26 34	10	CET	46M	45	Large nearly edge-on spiral w equatorial dust lane	☐
NGC1058	Sc	11.5	3x3	02 43 29	+37 20 27	2	PER	24M	31	NGC1023 grp;patchy main body;mult arm pattern	☐
NGC1060	ES0	12.1	2x2	02 43 15	+32 25 30	2	TRI	239M	35	GXTR24 14.2 11.8 14.0 N1057/60/61 PERTRI GRP-II	☐
NGC1073	SBc	11.1	5x5	02 43 40	+01 22 33	10	CET	56M	34	Large face-on spiral prominent bar nr 1087. Cetus A M77 Group	☐
NGC1084	Sc	10.9	3x2	02 45 60	-07 34 40	4	ERI	65M	58	SD8 Irregular mottled appearance ETA ERI GXY	☐
NGC1087	SBc	11.0	4x2	02 46 25	-00 29 55	10	CET	58M	42	In NGC1068 grp;P w NGC1090 @15' and NGC1094,20'	☐
NGC1099	SBb	13.1	2	02 45 18	-17 42 31	4	ERI	347M	11	HCG021 13.1 13 12.6 13.4 14.1 N1099 N1100 N1098 N1092 N1091 5-RIVERS	☐
NGC1156	IBm	11.9	4x3	02 59 42	+25 14 15	10	ARI	17M	24	Irr dwarf w traces of spiral struct;bar-like core	☐
NGC1161	S0	11.4	3x2	03 01 14	+44 53 50	3	PER	90M	22	P w NGC1160 at 3.5'	☐
NGC1169	SBb	11.6	4x3	03 03 34	+46 23 09	3	PER	110M	24	Eye shaped. PGC10308 at 10'N	☐
NGC1175	S0a	13.1	2x1	03 04 32	+42 20 22	3	PER	254M	12	Bright core; Saturn-like	☐
NGC1184	S0a	12.7	3x1	03 16 45	+80 47 36	1	CEP	108M	17	Edge-on central bulge with hint of dust lane	☐
NGC1187	SBc	10.8	6x4	03 02 37	-22 52 03	4	ERI	55M	34	Multi arm spiral large, stunning!	☐
NGC1199	E3	11.7	2x2	03 03 38	-15 36 50	4	ERI	118M	35	HCG022 Brightest in small group 6-STREAMS	☐
NGC1214	S0a	14.0	1	03 06 56	-09 32 39	4	ERI	224M	7	HCG023 14 14.1 14.8 15.3 N1214 N1215 N1216 M-02-08-050 4-BECKS	☐
NGC1232	SBc	10.0	7x7	03 09 45	-20 34 45	4	ERI	65M	65	HT11 Large diffuse halo with bright core EYE OF GOD GALAXY	☐
NGC1245	OC	8.5	10	03 14 41	+47 14 19	2	PER	9380	63	SD9 Very rich in faint stars. Huge Mel 20 (HT14) Little Cloud of Pirates near. PATRICK STARFISH	☐
NGC1275	S0p	11.8	2x2	03 19 48	+41 30 41	3	PER	242M	71	C24 Perseus A gxy Cluster. Brightest gxy. Fuzzy star with coma.	☐
NGC1291	SB0a	8.5	10x8	03 17 18	-41 06 26	4+	ERI	39M	51	HT12 Prominent round galaxy SNOW COLLAR GXY	☐
NGC1300	SBbc	10.5	6x4	03 19 41	-19 24 41	4	ERI	60M	64	SD10 PERFECT GXY. CLASSIC BAR GXY	☐
NGC1332	ES0	10.5	5x1	03 26 17	-21 20 04	4	ERI	62M	57	Striking edge-on galaxy with supermassive black hole	☐
NGC1333	EN	5.7	6x3	03 29 18	+31 25 00	3	PER	720	46	HT15 EMBRYO NEBULA	☐
NGC1342	OC	6.7	14	03 31 38	+37 22 36	3	PER	2170	65	SD11 Stingray large, scattered group - low/p binocs. Pretty.	☐
NGC1395	E2	10.2	6x5	03 38 30	-23 01 38	4	ERI	81M	50	Fairly small but bright elliptical	☐
NGC1400	ES0	11.4	3x2	03 39 30	-18 41 17	4	ERI	19M	47	SD12 Pair w N1407(SD13), brightest members of grp of 50 gxs ERI-A GXY-I	☐
NGC1407	E1	10.1	5x5	03 40 12	-18 34 49	4	ERI	94M	61	SD13 ERI-A GXY-II	☐
NGC1421	SBbc	11.6	3x0.8	03 42 29	-13 29 20	4	ERI	87M	29	Nearly edge-on	☐
NGC1491	EN		3x3	04 03 13	+51 18 58	3	PER	10.7k	77	SD14 T-rex fossil footprint neb. Bright, circular EN foot-pad and toes.	☐
NGC1499	EN	5.0	145x40	04 01 10	+36 27 36	3	PER		76	California Nebula - very faint, unusually large, use filter	☐
NGC1501	PN	12.4	52"	04 06 59	+60 55 17	1	CAM	4900	80	HT22 OYSTER PN. Blue Oyster. Annular PN w/ faint sta,r sth of Kemble's Casc. Oval in H/P.	☐
NGC1502	OC	6.1	8	04 07 49	+62 19 54	1	CAM	2680	64	HT23 NR KEMBLE'S CASCADE. Striking small trapezoid-shaped cl. End of Kemble's Casc (20 star string).	☐
NGC1513	OC	8.5	9	04 09 57	+49 30 54	3	PER		37	Fairly rich cluster 50' SE of Lambda Persei	☐
NGC1514	PN	10.7	132"	04 09 17	+30 46 33	3	TAU	600	78	SD15 Crystal ball. Prominent star. Dim & difficult. Center star in line of 3. THE PANSY	☐
NGC1528	OC	6.4	24	04 15 19	+51 12 42	3	PER	2530	68	HT25 M&M CL. Larger cl, use L/P. 4 red stars. Like colored sweets. Forms two 'M's.	☐
NGC1535	PN	9.7	21"	04 14 16	-12 44 20	4	ERI	7000	82	HT24 Cleo's Eye. Tiny blu/grey disk in Low/P. Dappled in Med/P	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC1545	OC	6.4	18	04 20 56	+50 15 19	3	PER	2320	66	HT26 RUNNING MAN CL. Includes chains of faint stars, colored stars and a pretty double star.	☐
NGC1555	EN		0.5x0.5	04 21 57	+19 32 04	3	TAU	450?	5	Hind's Variable Nebula, STRUVE'S LOST NEBULA with 1554	☐
NGC1569	IBm	11.4	4x2	04 30 49	+64 50 53	1	CAM	9M	33	Elongated with a high surface brightness	☐
NGC1579	RN		3x3	04 30 14	+35 16 47	3	PER	2100	50	SD16 THE NORTHERN TRIFID	☐
NGC1618	SBb	12.8	2x1	04 36 06	-03 08 56	4	ERI	225M	34	GXTR28 12.7 12.5 12.3 N1618/22/25 NU ERI GRP	☐
NGC1624	C+N	11.3	5x5	04 40 37	+50 27 41	3	PER		33	6 or 7 st + neb	☐
NGC1637	SBc	11.0	4x3	04 41 28	-02 51 29	4	ERI	33M	33	Nearly face-on loose wound arms. Single lopsided outer arm	☐
NGC1647	OC	6.3	45	04 45 42	+19 07 09	3	TAU	3600	73	HT27 PIRATE MOON CL. Scattered cluster with several bright stars.	☐
NGC1664	OC	7.6	18	04 51 05	+43 40 34	3	AUR	3910	65	MC75 Rich with several double stars and chains. EPS AUR CL	☐
NGC1700	E4	11.5	3x2	04 56 56	-04 51 56	4	ERI	179M	21	Pair w NGC 1699	☐
NGC1741	Sdm	13.3	1.4x0.7	05 01 39	-04 15 32	4	ERI	187M	4	HCG031 12.5 14.7 12.9 N1741 CURSA GRP	☐
NGC1750	OC		20	05 04 00	+23 38 42	3	TAU		33	SD17 Part of NGC 1746 VENN DIAG CL-I	☐
NGC1758	OC		39	05 04 36	+23 47 54	3	TAU		30	SD18 VENN DIAG CL-II	☐
NGC1778	OC	7.8	7	05 08 06	+37 01 24	3	AUR	5450	37	Arranged in 2 rows, includes a pretty double	☐
NGC1788	RN	10.0	5x3	05 06 53	-03 20 28	4	ORI		78	SD19 Batface unusually bright reflection nebula two stars. Silky L/P.	☐
NGC1807	OC	7.3	17 & 20	05 10 46	+16 30 48	4	TAU		58	SD20 Poorman's dbl cl striking stick man of 24 stars with N1817 (SD21). POORMAN'S DBL CL	☐
NGC1817	OC	7.8	16	05 12 27	+16 41 00	3	TAU	4900	56	SD21 Large and fairly rich - pair with NGC 1807 PMDC-II	☐
NGC1857	OC	7.4	6	05 20 05	+39 20 36	3	AUR	18.7k	63	MC67 Hazy little cluster surrounding a mag 7.5 star - rich in faint stars. LAM AUR CL	☐
NGC1907	OC	8.8	7	05 28 05	+35 19 32	3	AUR	4500	44	Excellent rich, compact cluster some nebulosity	☐
NGC1909	EN		180	05 04 30	-07 16 00	4	ERI		47	Witchhead nebula; Rigel illuminator? IC2118	☐
NGC1931	C+N	10.6	3x3	05 31 26	+34 14 42	3	AUR	7000	82	SD23 THE FLY NEB. Fly w/ IC417 (SD22) spider 50' away. Cheshire cat. Small neb few stars.	☐
NGC1961	SBbc	11.3	4x2	05 42 04	+69 22 43	1	CAM	181M	42	Hexagonal;2 branch arms w some knots	☐
NGC1973	EN	7.0	5x5	05 35 05	-04 43 55	4	ORI	1630	57	North of M42 involving several bright stars RUNNING MAN NEBULA	☐
NGC1980	OC	3.7	15x14	05 35 25	-05 54 54	4	ORI	1800	47	The Lost Jewel of Orion=CLUSTER WITH NEBULA	☐
NGC1981	OC	4.3	25	05 35 12	-04 26 00	4	ORI	1300	46	HT30 Bright scattered group to north of M42 COAL CAR CLUSTER-JUST N. OF 1973/5/7	☐
NGC1990	EN	1.7	50	05 36 12	-01 12 07	4	ORI		79	Epsilon Orionis Nebula	☐
NGC1999	EN	9.6	2x2	05 36 25	-06 42 57	4	ORI	1500	69	HT33 Small, circular nebulosity with dark patch 13TH PEARL / BLACK EYE NEBULA	☐
NGC2022	PN	12.0	22"x17"	05 42 06	+09 05 12	4	ORI	10.4k	75	SD25 Kissing crescents. Tiny narrow fuzzy loops. Rugby ball shape. H/P.	☐
NGC2024	EN	10.5	30x30	05 41 42	-01 51 24	4	ORI	1500	98	HT34 Flame Neb. Prominent separated by dark lane, S. of Zeta Ori.	☐
NGC2129	OC	6.8	7	06 01 07	+23 19 04	3	GEM	4940	45	Small but fairly rich group with 2 bright stars 13 stars broken chainlike	☐
NGC2146	SBabj	10.6	6x3	06 18 38	+78 21 21	1	CAM	39M	35	Elongated galaxy with a bright core	☐
NGC2158	OC	9.4	5	06 07 26	+24 05 46	3	GEM	16.5k	43	Unusually rich open cluster 30' SW of M35	☐
NGC2163	EN		3	06 07 50	+18 39 27	3	ORI		16	HT35 Two symmetrical fans extending N-S XMAS CRACKER NEB	☐
NGC2169	OC	6.1	6	06 08 24	+13 57 53	3	ORI	3430	59	HT36 'NUMBER 37' CL. Makes 'Number 37'. Shopping Cart. Simple cluster.	☐
NGC2175	C+N	6.8	40x30	06 09 39	+20 29 18	3	ORI		79	HT37 Monkey head. Dark sky. Delight in binocs. Use L/P for huge uniform glow.	☐
NGC2194	OC	8.9	10	06 13 46	+12 48 24	3	ORI	12.3k	44	Rich in faint stars circular	☐
NGC2207	SBbcj	11.1	4x3	06 16 22	-21 22 22	4	CMA	81M	33	Double galaxy or interacting pair	☐
NGC2232	OC	4.0	30	06 27 15	-04 45 30	4	MON		69	TL78 Scattered group of bright stars surrounding 10 Monocerotis.	☐
NGC2237	EN	7.0	80x60	06 30 55	+05 02 52	4	MON	5500	99	C49 Rosette Neb. Faint, v large, annular, surrounding cluster.	☐
NGC2244	OC	5.0	24	06 32 19	+04 51 24	4	MON	5500	70	C50 ROSETTE CL. Bright, striking rectangular group at center of Rosette Neb.	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC2245	RN		5x3	06 32 41	+10 09 24	4	MON		46	Reflection nebula fans out from mag 11 star	☐
NGC2261	E+R	10.0	2x1	06 39 10	+08 44 42	4	MON	3000	81	C46 Hubble's Variable Neb. Striking comet-like.	☐
NGC2264	C+N	4.1	60x30	06 40 58	+09 53 44	4	MON	2180	100	HT38 Cone Neb. Bright, lrg sctrd Xmas tree CL w/ faint neb. Blue 15 Mon base.	☐
NGC2266	OC	9.6	7	06 43 19	+26 58 10	3	GEM	11.1k	43	Faint but rich group	☐
NGC2268	SBbc	11.5	3x2	07 14 18	+84 22 56	1	CAM	98M	2	Weak bar;many filamentary arms	☐
NGC2274	E1	12.4	2x2	06 47 17	+33 34 02	3	GEM	233M	35	GXTR29 12.1 13.1 14.0 N2274/75/U3537 THETA GEM GRP	☐
NGC2281	OC	5.8	25	06 48 18	+41 04 44	3	AUR	1819	62	SD30 Broken heart. Binocs pendant betw 2 gold stars. Gumby arms. M/P.	☐
NGC2283	SBc	12.4	4x3	06 45 52	-18 12 37	4	CMA	39M	32	Small spiral face-on	☐
NGC2298	GC	9.7	7	06 48 59	-36 00 17	4+	PUP		39	SD31	☐
NGC2300	ES0	11.0	4	07 32 20	+85 42 33	1	CEP	88M	1	Pair with NGC 2276 at 6' and IC 1455 at 10'	☐
NGC2301	OC	6.0	12	06 51 45	+00 27 33	4	MON	2850	66	HT39 PTEROSAUR CL. Hagrid's Dragon. Most beautiful cluster in Monoceros.	☐
NGC2311	OC	9.7	7	06 57 48	-04 36 41	4	MON		28	25 stars brt rich easy resolvable	☐
NGC2316	EN		4x4	06 59 40	-07 46 40	4	MON	3600	51	SD32 DREYERS NEB	☐
NGC2320	E4	11.9	1	07 05 42	+50 34 51	5	LYN	273M	12	GXTR31 11.9 13.6 13.8 N2320/21/22 3-CATS	☐
NGC2324	OC	8.6	8	07 04 08	+01 02 41	4	MON		37	Irregular group, rich in faint stars 30 stars 5 stars = a Y loose	☐
NGC2327	EN		20	07 04 07	-11 18 51	4	CMA		29	Seagull's Head Neb	☐
NGC2335	OC	8.0	12	07 06 49	-10 01 43	4	MON		30	In CMa OB1 35 stars triangular tight group	☐
NGC2336	SBbc	10.4	7x4	07 27 04	+80 10 40	1	CAM	98M	21	Weak bar;many many knotty arms; P w IC 467	☐
NGC2339	SBbc	12.0	3x2	07 08 20	+18 46 49	3	GEM	101M	19	Small face-on spiral	☐
NGC2343	OC	7.2	7	07 08 07	-10 37 00	4	MON		40	SD33 15 stars brt rich tight cute DOUBLEMINT CL	☐
NGC2346	PN	12.0	52"	07 09 22	-00 48 23	4	MON		70	SD34 Crimson Butterfly. Bipolar with central star. H/P.	☐
NGC2353	OC	6.6	20	07 14 30	-10 15 57	4	MON	3650	67	HT40 Avery's island. Orange star S side. Low/P. 3x2deg Pirate's Paradise near.	☐
NGC2359	EN	10.0	8x6	07 18 31	-13 13 30	4	CMA	15k	82	SD35 Thor's helmet duck head odd structure EN. Easy L/P. Best in M/P filter.	☐
NGC2360	OC	7.7	14	07 17 43	-15 38 29	4	CMA	6160	61	C58 Caroline's Cluster. Rich and splendid.	☐
NGC2362	OC	4.0	8	07 18 41	-24 57 15	4	CMA	4800	72	C64 TAU C-MAJ CL. Striking rich group surrounding mag 4 Tau Canis Majoris. ARKENSTONE	☐
NGC2366	IBm	11.1	8x3	07 28 55	+69 12 57	1	CAM	4M	36	P w NGC 2363	☐
NGC2371	PN	11.9	44"	07 25 34	+29 29 18	3	GEM	4400	80	SD36 PEANUT PN. Unusual PN with 2 lobes. Use H/P. Lobes are 1 light year apart.	☐
NGC2372	PN	11.8	1x0.9	07 25 34	+29 29 18	3	GEM	4400	58	SD36b THE ANT NEB.,DOUBLE BUBBLE NEB.,PEANUT NEB.,Dogbone Neb. With 2371	☐
NGC2379	S0	13.5	0.8	07 27 26	+33 48 43	3	GEM	186M	6	GXTR32 very compact; near NGC 2389 group CASTOR GRP-I	☐
NGC2389	SBc	12.9	2	07 29 05	+33 51 39	3	GEM	182M	11	GXTR33 brightest in group;many knotty filam arms CASTOR GRP-II	☐
NGC2392	PN	9.1	20"	07 29 11	+20 54 45	3	GEM	3000	86	C39 Eskimo Neb. Prominent double shell structure.	☐
NGC2395	AST	8.6	12	07 27 13	+13 36 30	3	GEM		47	Rich scattered near medusa nebula Sh2-274	☐
NGC2403	SBc	8.7	22x12	07 36 51	+65 36 06	1	CAM	11M	98	C7 LLama (Fireworks) Gxy. Large spiral - arms visible. Well defined in L/P	☐
NGC2419	GC	10.7	5	07 38 09	+38 52 57	3	LYN	30.3k	88	C25 Intergalactic Wanderer - most distant GC 200k ly. View in M/P.	☐
NGC2420	OC	8.7	10	07 38 24	+21 34 27	3	GEM	10k	63	SD37 TWINKLING COMET CL. Small. Nice spread of magnitudes. M/P "tulip".	☐
NGC2440	PN	10.7	16"	07 41 55	-18 12 29	4	PUP	5700	81	HT41 THE KISS PN. Kiss lips. Multi-lobed PN needs M-H/P. Inner ring and bright core. EMBER NEB	☐
NGC2467	EN	7.3	8x7	07 52 29	-26 25 48	4	PUP	13k	72	HT43 Large, bright circular nebulosity OMI PUP NEB	☐
NGC2500	SBcd	11.8	3x3	08 01 53	+50 44 15	5	LYN	23M	20	Bright nucleus in bar;many well resolved clumpy arms	☐
NGC2506	OC	7.9	12	08 00 02	-10 46 11	4	MON	11.3k	60	C54 UNICORN CL. Rich cluster. Knot of stars in Milky Way. 15x15 N2539 (HT45) Dish CL nr.	☐
NGC2513	E2	11.6	3	08 02 25	+09 24 50	6	CNC	214M	16	GXTR34 13.4 14.1 11.6 N2510/11/13 CRABS	☐

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NGC2537	SBm	11.7	3x3	08 13 14	+45 59 29	5	LYN	26M	2	Bear Paw Galaxy	☐
NGC2541	SBc	11.9	6x3	08 14 40	+49 03 43	5	LYN	25M	27	Nice but faint spiral with arms	☐
NGC2655	SB0a	10.4	5x4	08 55 38	+78 13 25	1	CAM	63M	83	HT48 GIRAFFE GXY. Bright oval gxy with a prominent core. Needs dark sky H/P.	☐
NGC2681	SB0a	10.4	4x3	08 53 33	+51 18 47	5	UMA	38M	58	Round galaxy with an unusually bright core	☐
NGC2683	Sb	9.9	9x2	08 52 41	+33 25 12	5	LYN	30M	88	HT47 UFO Gxy. Bright edge-on dusty structure. Use M/P. Stunner in gxy cluster.	☐
NGC2685	SB0a	11.2	5	08 55 35	+58 44 05	5	UMA	41M	6	Cigar-shaped;w equatorial rings;dk lanes	☐
NGC2715	SBc	11.5	5	09 08 06	+78 05 09	1	CAM	62M	6	Several filamentary knotty arms;sharp outline	☐
NGC2768	E6	10.4	8x4	09 11 37	+60 02 11	5	UMA	73M	60	Bright elongated spiral with a prominent core	☐
NGC2775	Sab	10.5	4x3	09 10 20	+07 02 14	6	CNC	62M	80	C48 CANCRA GXY. Bright core with a large, faint halo.	☐
NGC2784	S0	10.6	6x2	09 12 19	-24 10 18	6	HYA	32M	44	Prominent elongated spiral with a bright center	☐
NGC2787	SB0a	11.1	2x1	09 19 18	+69 12 13	5	UMA	32M	40	Bright core, strong narrow bar with blobs	☐
NGC2805	SBd	11.6	6x5	09 20 20	+64 06 10	5	UMA	79M	38	GXTR35 Slightly asym; knotty arms TAU UMA GRP	☐
NGC2835	SBc	10.5	6	09 17 53	-22 21 19	6	HYA	41M	1	Fine multi arm spiral	☐
NGC2841	Sb	9.4	8x4	09 22 02	+50 58 35	5	UMA	40M	88	HT49 TIGER'S EYE GXY. Large bright multi-arm spiral dusty structure. Dim vapor trail M/P. Nice.	☐
NGC2857	Sc	12.3	2	09 24 38	+49 21 26	5	UMA	225M	14	GXTR36 Low surf brightness;2 very long thin arms ARPS SPIRAL	☐
NGC2859	SB0a	11.1	4x4	09 24 19	+34 30 48	5	LMN	78M	43	Bright core, bar and blobs	☐
NGC2872	E2	11.9	2	09 25 43	+11 25 58	6	LEO	147M	13	GXTR37 11.9 15.8 12.5 N2872/73/74	☐
NGC2903	SBbc	9.1	13x6	09 32 10	+21 29 57	6	LEO	30M	93	HT51 ASLAN GXY. One of the brightest galaxies missed by Messier. Use M/P.	☐
NGC2929	Sc	13.7	1	09 37 30	+23 09 40	6	LEO	345M	7	GXTR38 13.7 14.1 13.9 N2929/30/31 LIONHEAD-I	☐
NGC2962	SB0	11.8	3	09 40 54	+05 09 57	6	HYA	90M	1	Bright core. Eye shape	☐
NGC2964	SBbc	11.5	2x1	09 42 54	+31 50 49	6	LEO	61M	50	GXTR39 vfaint bar;2 mn. knotty arms; Mrk 404 in disc	☐
NGC2976	Scp	10.1	6x3	09 47 15	+67 55 03	5	UMA	0.1M	79	TL201 Big Ted. Large, elongated spiral.	☐
NGC2985	Sb	10.7	5x4	09 50 21	+72 16 43	5	UMA	61M	55	Very bright core with a faint halo	☐
NGC2991	S0	12.6	1	09 46 50	+22 00 48	6	LEO	343M	11	GXTR40 14.8 12.6 13.1 N2988/91/94 LIONHEAD-II	☐
NGC2992	Sa	12.1	4	09 45 42	-14 19 37	6	HYA	106M	3	Long streamer extends 2' N; interacting with N2993	☐
NGC3003	SBbc	11.9	6x1	09 48 36	+33 25 19	5	LMN	77M	38	Long and knotty	☐
NGC3027	SBcd	12.0	4	09 55 40	+72 12 15	5	UMA	49M	4	P w NGC 2985 @ 2.7'	☐
NGC3065	S0	12.6	2x2	10 01 55	+72 10 13	5	UMA	92M	13	P w 3066 3' S; Bright core; huge halo	☐
NGC3067	SBab	12.3	3x1	09 58 21	+32 22 10	6	LEO	68M	18	Bright bar, knots & dark lanes	☐
NGC3077	Sd	10.4	5x5	10 03 20	+68 44 06	5	UMA	12M	76	SD39 Little Ted. Irregular. Faint dash nr 8th mag star. L/P triplet with M81/82.	☐
NGC3079	SBc	11.0	8x1	10 01 58	+55 40 53	5	UMA	57M	85	SD38 Frisbee. Large, bright edge-on. Spectacular in M/P.	☐
NGC3109	SBm	10.0	19x4	10 03 07	-26 09 30	6	HYA	4.3M	61	Unusually large, low surface brightness streak	☐
NGC3115	ES0	9.2	7x3	10 05 14	-07 43 05	6	SEX	33M	92	C53 Spindle gxy. Very bright! One of most beautiful. Splendid in H/P.	☐
NGC3147	Sbc	11.0	3x2	10 16 53	+73 24 01	1	DRA	129M	41	Tightly wound arms bright core face-on spiral	☐
NGC3156	S0	12.6	2x1	10 12 41	+03 07 45	6	SEX	61M	30	NGC 3166 group	☐
NGC3158	E3	12.2	2x2	10 13 50	+38 45 53	5	LMN	321M	15	Brightest in group	☐
NGC3162	SBbc	11.8	3x3	10 13 31	+22 44 15	6	LEO	60M	20	With 2 main knotty arms	☐
NGC3166	SB0a	10.6	5x2	10 13 46	+03 25 33	6	SEX	62M	89	SD40 GXTR41 DEATH SPIRAL GXs. w/ 5x3 N3169 (SD41). 66 Brighter. 69 near star. Faint 3rd gxy.	☐
NGC3169	Sa	10.7	4x3	10 14 15	+03 28 01	6	SEX	57M	73	SD41 GXTR41 Striking duo with NGC 3166 DEATH SP-II	☐
NGC3177	Sbc	12.6	1x1	10 16 34	+21 07 23	6	LEO	60M	9	NGC 3189-90 group	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC3184	SBc	9.9	7x7	10 18 17	+41 25 24	5	UMA	47M	85	HT52 Little pinwheel. Large gxy 40' W of Mu Ursa Maj. Face-on. M/P.	☐
NGC3190	Sa	11.2	4x2	10 18 06	+21 49 58	6	LEO	58M	60	HCG044 Brightest in group of 4 (inc 3193, another H400)	☐
NGC3198	SBc	10.6	5x4	10 19 55	+45 33 00	5	UMA	30M	73	SD42 GRIZZLY GXY. Dark sky. Big oval glow spiral. Med/P	☐
NGC3202	SBa	13.2	1	10 20 32	+43 01 17	5	UMA	309M	8	GXTR42 13.2 13.2 13.2 N3202/05/07 LAM UMA GRP	☐
NGC3206	SBc	11.9	3	10 21 48	+56 55 51	5	UMA	53M	2	Disturbed	☐
NGC3226	E2	11.7	3x2	10 23 27	+19 53 51	6	LEO	66M	60	SD43 Pair w NGC 3227 at 2'	☐
NGC3227	SBa	10.7	9x4	10 23 30	+19 51 55	6	LEO	65M	87	SD44 Mini m51 w/ 3'x2' N3226 (SD43) near lambda Leo. High/P	☐
NGC3242	PN	8.1	25"	10 24 46	-18 38 31	6	HYA	3566	89	C59 Ghost of Jupiter. Double shell structure gives "Eye". Green in H/P.	☐
NGC3301	SB0a	11.6	4x1	10 36 56	+21 52 55	6	LEO	61M	32	P w NGC 3287 at 33'; Nearly edge-on	☐
NGC3310	SBbc	10.8	3x2	10 38 46	+53 30 12	5	UMA	46M	51	Unusually bright core and faint halo	☐
NGC3319	SBc	11.2	6x3	10 39 09	+41 41 14	5	UMA	34M	27	Flattened central region along NE-SW coarse spiral	☐
NGC3338	Sc	11.2	6x4	10 42 07	+13 44 49	6	LEO	60M	28	Leo group near M105	☐
NGC3344	SBbc	10.2	7x7	10 43 31	+24 55 22	6	LMN	20M	85	HT55 SLICED ONION GXY. Fairly large gxy with 2 mag 10 stars superimposed.	☐
NGC3359	SBc	10.8	7x4	10 46 36	+63 13 28	5	UMA	47M	45	Barred spiral with a large, diffuse halo	☐
NGC3377	E5	10.6	5x3	10 47 42	+13 59 09	6	LEO	31M	71	Nice 20' pair with NGC 3367. Near M105 group.	☐
NGC3384	ESB0	10.1	6x3	10 48 17	+12 37 43	6	LEO	37M	84	TL102 Ell. gxy, quite bright. Tight group with M105 & NGC3389. In Leo I.	☐
NGC3385	S0	12.6	2	10 48 12	+04 55 42	6	SEX	360M	11	GXTR44 12.6 13.8 13.8 N3385/86/87	☐
NGC3395	SBc	12.2	2x1	10 49 50	+32 58 53	5	LEO	75M	38	P w NGC 3396;contact disrupted;brightest of 7	☐
NGC3412	SB0	10.6	4x2	10 50 53	+13 24 46	6	LEO	39M	78	TL102 Spiral in Leo I. Near M105	☐
NGC3423	Sc	11.4	4	10 51 14	+05 50 24	6	SEX	46M	4	Fine face on spiral	☐
NGC3430	SBc	11.7	4x2	10 52 11	+32 56 59	5	LMN	73M	24	NGC 3395 group	☐
NGC3432	SBm	11.4	7x2	10 52 31	+36 37 08	5	LMN	39M	74	SD45 Knitting needle gxy. Mesmerizing edge-on barred spiral streak M/P.	☐
NGC3448	S0a	12.1	6	10 54 39	+54 18 19	5	UMA	62M	7	P w UGC 6016;bridge; near 44 UMA	☐
NGC3486	SBc	10.7	7x5	11 00 24	+28 58 32	6	LMN	31M	45	Round faint fuzzy uniform	☐
NGC3489	SB0a	10.8	4x2	11 00 18	+13 54 03	6	LEO	31M	53	Unusually bright round core	☐
NGC3504	SBab	11.2	3x2	11 03 11	+27 58 23	6	LMN	70M	51	Lovely face-on spiral long halo/arms; pair with NGC 3512 12' E	☐
NGC3507	SBb	11.2	3x3	11 03 25	+18 08 08	6	LEO	59M	31	Face-on spiral, contrasting pair with edge-on N3501	☐
NGC3516	SB0	11.9	2x1	11 06 47	+72 34 07	5	UMA	122M	16	Seyfert	☐
NGC3521	SBbc	9.4	11x5	11 05 49	-00 02 13	6	LEO	25M	91	HT56 BUBBLE GXY. Bright impressive gxy with dusty appearance.	☐
NGC3583	SBb	11.3	3x2	11 14 10	+48 19 06	5	UMA	98M	22	P w NGC 3577	☐
NGC3585	E6	10.3	5x3	11 13 17	-26 45 18	6	HYA	66M	46	High surface brightness elliptical galaxy	☐
NGC3593	S0a	11.1	5x2	11 14 37	+12 49 06	6	LEO	29M	54	Very elongated spiral with a prominent core	☐
NGC3596	SBc	11.5	4x4	11 15 06	+14 47 13	6	LEO	55M	25	Leo group	☐
NGC3607	ES0	10.2	5x3	11 16 55	+18 03 08	6	LEO	44M	78	TL101 Ell. gxy, brightest of a nice trio (3607, 3608, 3632).	☐
NGC3613	E6	11.4	2x1	11 18 36	+58 00 02	5	UMA	93M	39	P w NGC 3619 at 15.7'	☐
NGC3621	SBcd	9.8	12x7	11 18 16	-32 48 40	4+	HYA	22M	74	HT57 Large, elongated spiral FRAME GXY	☐
NGC3626	S0a	11.2	3x2	11 20 04	+18 21 24	6	LEO	69M	74	C40 ELSA GXY. Lenticular gxy. Few features. Small/dim.	☐
NGC3628	Sb	9.8	15x3	11 20 17	+13 35 24	6	LEO	25M	94	HT58 LEO TRIO. Spiral gxy; large edge-on. King Hamlet's Ghost (w/ M65 & M66).	☐
NGC3631	Sc	10.7	5x5	11 21 03	+53 10 11	5	UMA	70M	49	Face-on perfect spiral	☐
NGC3640	E3	10.8	4x3	11 21 07	+03 14 05	6	LEO	57M	53	Brightest in a faint galaxy group	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC3646	Sbcp	11.3	4x2	11 21 43	+20 10 10	6	LEO	195M	32	Spiral at 45 degrees;P w NGC 3649	☐
NGC3651	E0	13.3	1	11 22 26	+24 17 56	6	LEO	350M	7	HCG051 13.2 14.6 13.6 14.7 14.1 14.2 15.2 N3651 M N3653 M IC2759 7-LIONS	☐
NGC3665	S0	11.1	3x2	11 24 44	+38 45 47	5	UMA	94M	51	Bright oval with a prominent core	☐
NGC3666	SBc	12.2	4x1	11 24 26	+11 20 31	6	LEO	49M	23	Nearly edge-on	☐
NGC3672	Sc	11.4	4x2	11 25 02	-09 47 40	6	CRT	99M	42	Multi arm spiral	☐
NGC3675	Sb	10.7	6x3	11 26 08	+43 35 11	5	UMA	40M	84	SD46 KOALA GXY. Easy to find. Obvious in L/P. Bright nucleus in M/P. S-shape in H/P.	☐
NGC3681	SBbc	11.7	3x2	11 26 29	+16 51 48	6	LEO	57M	21	NGC 3684 at 14'	☐
NGC3693	Sb	12.8	4x1	11 28 11	-13 11 41	6	CRT	228M	22	Nearly edge-on with visible arms	☐
NGC3697	SBb	13.1	2.3x0.7	11 28 50	+20 47 42	6	LEO	288M	4	HCG053 13.1 13.9 14.1	☐
NGC3705	SBab	11.3	5x2	11 30 07	+09 16 37	6	LEO	47M	26	13M N3692 is 0.5 deg NE	☐
NGC3726	SBc	10.6	6x4	11 33 21	+47 01 40	5	UMA	55M	50	Well defined spiral pattern	☐
NGC3729	SBap	11.8	2x1	11 33 49	+53 07 35	5	UMA	49M	39	In field w NGC 3718	☐
NGC3735	Sc	12.1	4	11 35 57	+70 32 08	1	DRA	124M	28	Nearly edge-on	☐
NGC3753	Sab	13.6	2	11 37 54	+21 58 53	6	LEO	401M	10	HCG057 13.6 14.2 13.9 14.3 14.8 13.9 15.2 N3753 N3746 N3750 N3754 N3748 N3751 N3745	☐
NGC3756	SBbc	11.8	4x2	11 36 47	+54 17 39	5	UMA	61M	24	NGC 3738 in field	☐
NGC3786	SBap	12.3	2	11 39 43	+31 54 31	5	UMA	123M	14	GXTR47 12.3 12.6 14.5 N3786/88/93 NU UMA GRP-I	☐
NGC3810	Sc	11.0	4x3	11 40 59	+11 28 13	6	LEO	46M	52	Fairly large spiral with a diffuse halo	☐
NGC3822	S0	13.1	1	11 42 11	+10 16 41	6	VIR	288M	9	HCG058 13.1 13 13.3 13.8 14.5 N3822 N3825 N3817 N3819 N3820	☐
NGC3877	Sc	11.3	5x1	11 46 07	+47 29 40	5	UMA	49M	48	Edge on spiral;16' south from Chi UMa	☐
NGC3893	SBc	10.8	4x2	11 48 38	+48 42 41	5	UMA	55M	76	SD47 CHI UMA GXY. Large Grand Design spiral w/ dust lane. Oval in M/P. N3896 near.	☐
NGC3898	Sab	11.1	4x3	11 49 15	+56 05 05	5	UMA	54M	52	Brightest in a large group of galaxies	☐
NGC3917	Sc	11.8	5x1	11 50 46	+51 49 29	5	UMA	51M	6	Nearly edge on streak	☐
NGC3921	S0a	12.6	2	11 51 07	+55 04 46	5	UMA	271M	30	GXTR49 13.9 12.4 13.2 N3916/21/MCG-9-19-231 GAM UMA GRP	☐
NGC3923	E4	10.2	6x4	11 51 02	-28 48 21	6	HYA	80M	47	Large, oval galaxy with NGC 3904 40' SW	☐
NGC3938	Sc	10.8	5x5	11 52 49	+44 07 17	5	UMA	55M	49	Fine face on spiral	☐
NGC3941	SB0	10.5	4x3	11 52 55	+36 59 13	5	UMA	43M	54	High surface brightness galaxy	☐
NGC3945	SB0	11.1	6x4	11 53 13	+60 40 31	5	UMA	65M	49	Faint halo. Looks like a gyroscope. 13M N3978 is 0.5 deg SE	☐
NGC3953	SBbc	10.3	7x4	11 53 48	+52 19 30	5	UMA	55M	85	SD48 Very bright elongated gxy. BRIL'S GXY	☐
NGC3988	E1	13.3	0.9	11 57 24	+27 52 41	6	LEO	300M	6	GXTR50 13.3 13.7 14.3 N3988/4004/04B	☐
NGC3995	SBm	12.4	3	11 57 44	+32 17 35	5	UMA	150M	16	GXTR51 13.1 12.7 12.4 N3991/4/5 NU UMA GRP-II	☐
NGC3998	S0	10.9	3x2	11 57 56	+55 27 14	5	UMA	48M	77	MC101 Prominent gxy, brightest in a large group. THREE-BEARS GXY	☐
NGC4005	Sp	13.1	1	11 58 10	+25 07 20	6	LEO	205M	1	Brazell's grp of 14 gxs in 2 parts near HD103913. NW grp inc N3987, N3993, N3997	☐
NGC4013	Sb	11.5	5x1	11 58 31	+43 56 48	5	UMA	38M	29	Edge on	☐
NGC4026	S0	11.2	5x1	11 59 25	+50 57 43	5	UMA	43M	54	Large, edge-on galaxy with bulging core	☐
NGC4027	IBm	11.8	3x2	11 59 29	-19 19 55	6	CRV	90M	57	Unusual one-armed spiral galaxy	☐
NGC4030	Sbc	11.1	3x2	12 00 23	-01 06 02	6	VIR	67M	41	Fine nearly face on spiral	☐
NGC4036	ES0	10.9	4x2	12 01 27	+61 53 46	5	UMA	66M	78	SD49 KODIAK GXY. Striking edge-on w/ very bright core. Lens-like in M/P. N4041 at 15' sep.	☐
NGC4038	SBm	10.6	5x3	12 01 53	-18 51 52	6	CRV	89M	89	C60 Antenna Gxy - unusual interacting w/C61 shrimp shape. Needs dark sky. Ring Tail Gxy	☐
NGC4039	SBm	10.9	10x5	12 01 54	-18 53 03	6	COR	89M	83	C61 Ringtail Gxy. Merged w/ C60. Use med power.	☐
NGC4051	SBbc	10.6	6x5	12 03 10	+44 31 55	5	UMA	32M	74	SD50 BORDER GXS. Med/P face-on 120' sep pair w/ 4x1 N4111 (SD51) edge-on small High/P.	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC4073	E3	11.8	3x2	12 04 27	+01 53 45	6	VIR	270M	19	Field of 6 small galaxies 5' south	☐
NGC4088	SBbc	10.8	6x2	12 05 35	+50 32 26	5	UMA	35M	55	Bright and mottled cigar-shaped spiral	☐
NGC4096	SBC	11.0	7x2	12 06 01	+47 28 41	5	UMA	26M	50	Large, elongated spiral with a bright core	☐
NGC4100	Sbc	11.4	5x2	12 06 08	+49 34 59	5	UMA	49M	38	Fairly large and nearly edge-on	☐
NGC4105	E3	11.3	3x2	12 06 40	-29 45 38	6	HYA	89M	37	Interacting P w NGC 4106	☐
NGC4111	S0a	10.8	5x1	12 07 03	+43 04 00	5	CVN	46M	70	SD51 Pretty edge-on with a prominent core 67-UMA GXY	☐
NGC4125	E6p	9.7	6x3	12 08 06	+65 10 28	1	DRA	62M	31	Nearly edge-on with a prominent core	☐
NGC4136	SBC	11.3	4x4	12 09 17	+29 55 39	6	COM	28M	25	Small face-on	☐
NGC4138	S0a	11.6	3x2	12 09 29	+43 41 07	5	CVN	41M	21	Bright core. Counter-rotating disk	☐
NGC4147	GC	10.3	4x4	12 10 06	+18 32 33	7	COM	63k	61	SD52 small starlike outer nebulosity KICK-CAN CL	☐
NGC4151	SBab	11.1	6x5	12 10 32	+39 24 24	5	CVN	46M	55	Seyfert galaxy with a variable nucleus near NGC 4145	☐
NGC4157	SBb	11.6	7x1	12 11 04	+50 29 07	5	UMA	36M	35	Nearly edge-on narrow streak; spiral	☐
NGC4168	E2	11.6	3x2	12 12 17	+13 12 18	7	VIR	102M	36	GXTR52 14.7 13.5 11.2 N4164/65/68 SHUTTLE GRP-II	☐
NGC4169	S0	12.4	2x1	12 12 18	+29 10 46	6	COM	174M	34	HCG061 12.2 13 13.2 13.3 N4169 N4173 N4175 N4174 BOX GRP	☐
NGC4179	S0	11.4	3x1	12 12 52	+01 17 59	6	VIR	58M	41	Edge on spindle shape	☐
NGC4203	ESB0	11.1	3x3	12 15 05	+33 11 51	6	COM	50M	51	Prominent core with a much fainter halo	☐
NGC4214	IBm	9.8	9x7	12 15 39	+36 19 39	5	CVN	13M	89	HT59 NIGEL GXY. Large gxy with hints of structure. Irregular like LMC.	☐
NGC4216	SBb	10.1	8x2	12 15 54	+13 08 52	7	VIR	55M	97	HT60 GXTR53 Beautiful edge-on. Look for 4206 and 4222. SHUTTLE GRP-I	☐
NGC4220	S0a	11.7	4x1	12 16 11	+47 53 00	5	CVN	42M	32	P w NGC 4218 @ 15'	☐
NGC4235	Sa	11.8	4x1	12 17 09	+07 11 28	6	VIR	111M	23	Nearly edge on with NGC 4224 and NGC4233	☐
NGC4236	SBdm	9.8	20x8	12 16 43	+69 27 34	1	DRA	14M	78	C3 DRAGON GXY. Large barred spiral. Use low power. Faint needs dark sky.	☐
NGC4242	SBd	11.0	5	12 17 30	+45 37 09	5	CVN	23M	8	Bright bar	☐
NGC4244	Sc	10.4	17x2	12 17 29	+37 48 24	5	CVN	15M	95	C26 Silver Needle Gxy. Huge narrow ray! M/P forms M81/82 pair w/ 4214.	☐
NGC4251	SB0	11.0	4x2	12 18 08	+28 10 31	6	COM	49M	52	Bright elongated spiral	☐
NGC4256	Sb	12.1	5x1	12 18 42	+65 53 54	1	DRA	116M	26	Edge-on spindle	☐
NGC4261	E2	10.5	4x4	12 19 23	+05 49 28	6	VIR	103M	53	Brightest in a large group of galaxies	☐
NGC4274	SBab	10.6	7x3	12 19 51	+29 36 49	6	COM	54M	60	Large, elongated spiral, forms a 20' pair with NGC 4278	☐
NGC4278	E1	10.3	4x4	12 20 07	+29 16 49	6	COM	41M	67	GXTR54 Round, bright elliptical	☐
NGC4293	SB0a	11.0	5x3	12 21 13	+18 22 58	7	COM	41M	73	SD53 Compact beauty barred spiral. Intriguing in M/P.	☐
NGC4294	SBC	12.3	3x1	12 21 17	+11 30 37	7	VIR	16M	17	NGC 4299 6' east	☐
NGC4302	Sc	11.8	6x1	12 21 42	+14 35 59	7	COM	53M	27	Nearly edge-on spiral w equatorial dust lane nr N4298	☐
NGC4313	Sab	12.1	4x1	12 22 38	+11 48 04	7	VIR	66M	23	Spindle shaped edge on	☐
NGC4314	SBa	10.8	4x4	12 22 32	+29 53 45	6	COM	55M	48	Bright bar with two S-shaped arms	☐
NGC4319	SBab	12.2	3x2	12 21 43	+75 19 20	1	DRA	68M	18	NGC 4291 @ 7.4'	☐
NGC4339	E1	11.6	2x2	12 23 35	+06 04 54	6	VIR	59M	36	GXTR55 13.3 13.6 11.6 N4326/33/39	☐
NGC4350	S0	11.2	2x1	12 23 58	+16 41 36	6	COM	55M	40	NGC 4340 @ 5.6';lenticular	☐
NGC4359	SBC	13.1	4x1	12 24 11	+31 31 20	6	COM	58M	22	Edge-on streak	☐
NGC4361	PN	10.8	63"	12 24 31	-18 47 03	6	CRV	2500	67	HT61 Mag 13 central star in moderately large disc DEL CRV PN	☐
NGC4365	E3	10.3	7x5	12 24 28	+07 19 03	6	VIR	57M	56	Bright elliptical, NGC 4370 lies 10' NE	☐
NGC4371	SB0a	11.2	4x2	12 24 55	+11 42 15	7	VIR	43M	52	Diffuse outer halo with a striking core	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC4395	SBm	10.3	13x11	12 25 48	+33 32 51	5	CVN	15M	45	Large but low SB -good for eVscope?	☐
NGC4414	Sc	10.3	4x2	12 26 27	+31 13 25	5	COM	62M	83	SD54 NELL GXY. Bright but hard to find. Beauty in M/P. Tapered lens bright nuc in H/P.	☐
NGC4429	SOa	10.5	6x3	12 27 26	+11 06 27	7	VIR	42M	55	Bright, elongated spiral with a striking core	☐
NGC4435	SB0	10.9	3x2	12 27 41	+13 04 47	7	VIR	50M	69	SD55 Forms a striking pair called the "Eyes" with NGC 4438 4.5' S	☐
NGC4438	SOa	10.4	9x3	12 27 46	+13 00 31	7	VIR	55M	87	SD56 EYE GXs. Eyes Galaxies. Elongated spiral in Mark's chain. Pair w/ 4435.	☐
NGC4442	SB0	10.7	5x2	12 28 04	+09 48 14	7	VIR	24M	54	Elongated spiral in the core of the Virgo cluster	☐
NGC4449	IBm	9.6	6x4	12 28 11	+44 05 42	5	CVN	12M	91	C21 Box Gxy. Large, bright irregular. Remarkable in L/P.	☐
NGC4450	Sab	10.3	5x4	12 28 29	+17 05 03	7	COM	55M	83	SD57 High surface brightness core in a diffuse halo M/P. LINER GXY	☐
NGC4459	SOa	10.8	4x3	12 29 00	+13 58 43	7	COM	56M	53	Intense core, brightest in trio with NGC 4474 and NGC 4468	☐
NGC4461	SB0a	11.2	3	12 29 03	+13 11 04	7	VIR	89M	37	SD58 Markarian's chain;NGC 4458 @ 3.7', near M84 ROSSE GXY	☐
NGC4473	E5	10.4	5x3	12 29 49	+13 25 47	7	COM	103M	78	SD60 End Mark's chn bright spiral. 5' to 4x4 N4477 (SD61) & nr N4479. M/P.	☐
NGC4477	SB0	10.7	4x4	12 30 02	+13 38 13	7	COM	62M	63	SD61 Trio with NGC 4479 7' SE and NGC 4477 13' N in Virgo cluster	☐
NGC4487	SBc	11.2	4x3	12 31 04	-08 03 15	6	VIR	48M	25	Coarse structured spiral	☐
NGC4490	SBcd	9.9	6x3	12 30 36	+41 38 34	5	CVN	25M	84	HT63 Cocoon gxy. Striking elongated with spiral structure.	☐
NGC4494	E1	10.0	5x4	12 31 24	+25 46 31	6	COM	47M	59	Bright, round elliptical galaxy	☐
NGC4517	Sc	10.6	11x2	12 32 46	+00 06 56	6	VIR	30M	57	Large, narrow streak	☐
NGC4522	SBc	12.4	4	12 33 40	+09 10 27	7	VIR	107M	2	Edge on spiral	☐
NGC4526	SB0	10.0	7x2	12 34 03	+07 41 56	7	VIR	55M	85	HT65 Hairy Eyebrow or Lost Gxy. Striking, nearly edge-on with a bright core.	☐
NGC4527	SBbc	10.9	6x2	12 34 09	+02 39 12	6	VIR	80M	55	Large, nearly edge-on, N4536 lies 30' SSE	☐
NGC4535	SBc	10.2	7x5	12 34 20	+08 11 51	7	VIR	52M	85	TL106 McLeish's Gxy. Large, face-on spiral.	☐
NGC4536	SBbc	10.7	8x3	12 34 27	+02 11 14	6	VIR	51M	60	Large, elongated spiral, N4527 lies 30' N	☐
NGC4546	ESB0	10.5	3x1	12 35 30	-03 47 35	6	VIR	48M	52	Elongated galaxy with bright core and nucleus	☐
NGC4556	E2	13.1	1	12 35 46	+26 54 33	6	COM	344M	8	GXTR57 13.1 14.4 14.7 N4556/58/63	☐
NGC4559	SBc	10.1	11x4	12 35 58	+27 57 35	6	COM	30M	94	C36 CARTHAGE GXY. Easy to find. Use M/P to see oval core. Very large, elongated gxy.	☐
NGC4565	Sb	9.7	16x2	12 36 21	+25 59 16	6	COM	44M	97	C38 Needle Gxy. Beautiful edge-on. Dust lane. In Huge Mel 111 (HT62) Coma B.	☐
NGC4567	Sbc	11.5	3x2	12 36 33	+11 15 28	7	VIR	83M	51	Siamese twins, attached double system with NGC 4568	☐
NGC4571	Sc	11.5	4x3	12 36 56	+14 13 02	7	COM	16M	32	NGC 4548 @ 27 ' ;Near M91	☐
NGC4586	Sa	11.9	4x1	12 38 28	+04 19 08	6	VIR	36M	23	Shallow spiral, companion at 15'	☐
NGC4596	SB0a	10.8	4x3	12 39 56	+10 10 35	7	VIR	86M	53	Bright oval containing a prominent core, NGC 4608 lies 19' E	☐
NGC4605	SBcp	10.6	6x2	12 39 59	+61 36 33	5	UMA	17M	81	HT66 Faberge egg. Very elongated, bright spiral. Lots fine detail in H/P.	☐
NGC4618	SBm	11.1	4x3	12 41 33	+41 09 04	5	CVN	25M	48	P w NGC 4625 @ 8.3'	☐
NGC4631	SBcd	9.3	16x3	12 42 08	+32 32 30	5	CVN	25M	97	C32 Whale Gxy. Beauty edge-on mottled. Close companion. Very detailed.	☐
NGC4636	E2	9.8	6x5	12 42 50	+02 41 14	6	VIR	43M	79	SD62 Gold star gxs elliptical L/P 40' sep to 4x4 N4665 (SD63) small near star.	☐
NGC4643	SB0a	11.0	2x1	12 43 20	+01 58 41	6	VIR	61M	40	Saturn-like central mass w projecting ansae	☐
NGC4654	SBcd	10.8	5x3	12 43 57	+13 07 35	7	VIR	48M	54	Large spiral with a bright core, impression of dust lane	☐
NGC4656	SBm	10.6	15x3	12 43 58	+32 10 11	5	CVN	25M	93	HT67 Hockey stick. Striking gxy merges with NGC 4657.	☐
NGC4665	SOa	11.1	3x2	12 45 06	+03 03 19	6	VIR	36M	56	SD63 Bright core & bar; two faint arms. Pair with SD62 as Herschel Mystery Objects	☐
NGC4666	SBc	10.9	5x1	12 45 08	-00 27 46	6	VIR	60M	58	Bright edge-on with a mottled appearance	☐
NGC4689	Sbc	11.4	5	12 47 46	+13 45 44	7	COM	74M	43	Round & uniform. Tight spiral	☐
NGC4697	E6	9.4	7x5	12 48 36	-05 48 00	6	VIR	57M	82	C52 Bright oval / core by star. Faint halo. 3x2 N4699 (HT68) Vinyl LP Gxy near. CD GXY	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC4698	Sab	11.0	3x1	12 48 23	+08 29 18	7	VIR	46M	41	Elongated. Near 2 field stars	☐
NGC4699	SBb	9.7	4x3	12 49 02	-08 39 50	6	VIR	85M	71	HT68 Small, intense core with a large halo VINYL LP GALAXY	☐
NGC4710	S0a	11.2	5x1	12 49 39	+15 09 53	7	COM	55M	48	Beautiful edge-on with a mottled appearance	☐
NGC4725	SBab _l	9.4	11x8	12 50 27	+25 30 00	7	COM	42M	91	HT69 Blue arm gxy. Jewel of a spiral with a large halo. Inner lens in Med/P.	☐
NGC4742	E4	11.6	3x2	12 51 48	-10 27 17	6	VIR	58M	21	Group w NGC 4760 & 4781	☐
NGC4753	S0	10.3	6x3	12 52 22	-01 12 00	6	VIR	57M	64	SD64 Large bright oval with a concentrated core DUST DEVIL GXY	☐
NGC4759	S0	12.7	2x2	12 53 05	-09 11 59	6	VIR	164M	14	HCG062 12.5 13 13.8 15 N4759e N4759w N4761 N4764 SPICA-I	☐
NGC4762	SB0	10.5	9x2	12 52 56	+11 13 50	7	VIR	45M	80	SD65 Spiral thin edge-on; first in Virgo group from Vindemiatrix. KITE GXY	☐
NGC4781	SBcd	11.4	2x1	12 54 24	-10 32 10	6	VIR	58M	39	Coarse spiral	☐
NGC4845	Sab	11.8	4x1	12 58 01	+01 34 32	6	VIR	57M	42	Edge on w dust lane	☐
NGC4856	SB0a	10.9	4x1	12 59 21	-15 02 32	6	VIR	62M	53	Very elongated halo containing a bright, round core	☐
NGC4866	S0a	11.3	7x1	12 59 27	+14 10 17	7	VIR	91M	45	UGC 8091 @ 11.8';lens shaped	☐
NGC4889	E3	11.5	3x2	13 00 08	+27 58 35	6	COM	400M	72	C35 CYRENE GXY. Tough. Best gxy in Coma Cluster, furthest Caldwell ~300 M l.y. Nr N4874.	☐
NGC4902	SBb	11.2	3x3	13 00 59	-14 30 48	6	VIR	123M	28	Theta shaped center;triskelion arm pattern	☐
NGC4914	E4	12.0	4x2	13 00 42	+37 18 54	5	CVN	214M	23	P w NGC 4868	☐
NGC4915	E2	12.3	2x1	13 01 28	-04 32 48	6	VIR	139M	15	NGC 4918 @ 6.3'	☐
NGC4933	S0a	11.7	2x1	13 03 57	-11 29 51	6	VIR	149M	16	GXTR61 11.7 12.6 15.1 N4933A/B/I4134 SPICA-II	☐
NGC4939	Sbc	11.4	6x3	13 04 14	-10 20 24	6	VIR	143M	27	Well defined large spindly spiral	☐
NGC4941	SBab	11.5	4x2	13 04 13	-05 33 06	6	VIR	51M	25	Medium size spiral with ring	☐
NGC4958	SB0	10.9	4x1	13 05 49	-08 01 12	6	VIR	67M	52	Edge-on with bright core; Brightest of a group of 5 gxs	☐
NGC4995	SBb	11.2	2x1	13 09 41	-07 49 59	6	VIR	80M	40	Dense spiral	☐
NGC4999	SBb	12.0	3x2	13 09 33	+01 40 23	6	VIR	259M	19	Compact spiral with bar	☐
NGC5005	SBbc	10.0	6x3	13 10 56	+37 03 31	5	CVN	70M	91	C29 POODLE GXY. Large, bright oval with an elliptical core. Best in M/P. 5033 is twin.	☐
NGC5012	SBc	12.3	3x2	13 11 37	+22 54 56	6	COM	120M	18	P w UGC 8290	☐
NGC5023	Sc	12.5	6x1	13 12 11	+44 02 20	5	CVN	19M	26	Beautiful long streak	☐
NGC5033	Sc	10.2	11x5	13 13 28	+36 35 36	5	CVN	40M	81	SD66 Waterbug gxy very elongated spiral w/ bright core M/P. Near C29.	☐
NGC5044	E0	11.1	3x3	13 15 24	-16 23 06	6	VIR	128M	23	Multi-galaxy field with NGC 5037 and 9 others	☐
NGC5053	GC	9.8	10x10	13 16 26	+17 41 52	6	COM	57k	49	Low surf brightness;1 deg S of M 53	☐
NGC5054	Sbc	11.2	5x3	13 16 58	-16 38 05	6	VIR	63M	49	Three branch spiral	☐
NGC5056	Sc	13.2	2x1	13 16 12	+30 57 00	6	COM	257M	12	Brightest in cluster;NGC 5057 @ 6 '	☐
NGC5068	SBc	10.3	7x6	13 18 54	-21 02 20	6	VIR	31M	31	Large detailed face-on spiral with multiple arms	☐
NGC5077	E3	11.6	2x2	13 19 31	-12 39 24	6	VIR	129M	36	GXTR62 13.2 11.3 13.0 N5076/77/79 SPICA-III	☐
NGC5078	Sa	11.3	4x2	13 19 50	-27 24 28	6	HYA	100M	29	Dust lane;Nearly edge-on	☐
NGC5129	E2	12.5	2x1	13 24 10	+13 58 35	6	VIR	316M	14	Brightest member in cluster of six gxs	☐
NGC5134	SBb	11.6	3x2	13 25 18	-21 08 04	6	VIR	81M	21	Oval saturn like with hazy arm pattern	☐
NGC5141	S0	12.8	1	13 24 51	+36 22 44	5	CVN	239M	10	GXTR63 12.8 13.3 14.6 N5141/42/43 FOXES	☐
NGC5204	Sm	11.5	5x3	13 29 36	+58 25 09	5	UMA	9M	26	M 101 group;mottled & patchy	☐
NGC5209	E2	13.0	1	13 32 43	+07 19 40	6	VIR	324M	9	GXTR65 13.1 13.0 14.5 N5208/09/12	☐
NGC5247	SBbc	10.2	5	13 38 03	-17 53 05	6	VIR	62M	27	Large beautiful Catherine-wheel spiral	☐
NGC5248	SBbc	10.5	6x5	13 37 32	+08 53 10	6	BOO	75M	91	C45 SHEPHERD GXY. Large with well-defined core in "wastelands". Near 5x3 N5363 (HT72).	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC5297	SBc	11.9	6	13 46 23	+43 52 21	5	CVN	111M	8	P w NGC 5296 at 1'; Bright lens, knotty arms	☐
NGC5308	S0	11.7	4x1	13 47 00	+60 58 23	5	UMA	94M	32	Slightly asym; diamond-shaped	☐
NGC5322	E2	10.4	6x4	13 49 15	+60 11 25	5	UMA	81M	55	Bright elliptical with a striking core	☐
NGC5351	SBb	12.1	3	13 53 28	+37 54 54	5	CVN	166M	17	GXTR66 13.2 14.1 12.1 N5341/49/51 knotty ams. HOUNDS	☐
NGC5353	S0	11.0	2x1	13 53 27	+40 16 59	5	CVN	107M	40	HCG068 Brightest in a group of 5 galaxies SHEEPDOGS	☐
NGC5363	S0a	10.4	4x3	13 56 07	+05 15 14	6	VIR	85M	70	HT72 Prominent elliptical; strong core; brightest in a large group; Lovely spiral N5364 at 15'	☐
NGC5371	SBbc	10.8	4x4	13 55 39	+40 27 42	5	CVN	118M	43	Nice tight spiral 25' E NGC 5353 group	☐
NGC5383	SBb	11.6	3x3	13 57 04	+41 50 46	5	CVN	104M	31	Weak bar; dark lanes; 2 arms	☐
NGC5389	SB0a	12.3	4	13 56 06	+59 44 30	5	UMA	85M	2	Mid-size lens with NGC 5379 and N5376 in field	☐
NGC5426	Sc	12.2	3x2	14 03 25	-06 04 09	6	VIR	118M	18	Face-on mid-size spiral; Interacting with NGC 5427; Bridge between	☐
NGC5443	SBb	12.5	3x1	14 02 11	+55 48 49	5	UMA	83M	17	13.5M N5475 is 0.5 deg E	☐
NGC5444	E2	12.2	2x2	14 03 24	+35 07 54	5	CVN	181M	15	Group with NGC 5445 and 5440	☐
NGC5448	SBa	11.4	4x2	14 02 50	+49 10 21	5	UMA	93M	25	Bright core, faint bar	☐
NGC5466	GC	9.2	9	14 05 27	+28 32 06	8	BOO	52k	88	SD68 Snowglobe GC beauty in dark sky. Round uniform glow M/P. Starfish H/P.	☐
NGC5474	Sc	11.0	5x4	14 05 01	+53 39 46	5	UMA	13M	54	Large, irregular spiral 45' SSE of M101	☐
NGC5481	E2	12.6	2x2	14 06 41	+50 43 23	5	BOO	98M	13	Pair with NGC 5480	☐
NGC5485	S0	11.7	2x2	14 07 11	+55 00 07	5	UMA	92M	44	GXTR67 14.7 11.4 13.3 N5484/85/86	☐
NGC5490	E2	12.5	2x2	14 09 57	+17 32 44	8	BOO	223M	14	Brightest in group; several faint companions within 10'	☐
NGC5493	S0	11.8	2x1	14 11 29	-05 02 37	6	VIR	124M	16	Diamond-shaped lens	☐
NGC5506	Sap	12.3	3x1	14 13 14	-03 12 27	6	VIR	85M	18	Pair with NGC 5507 at 4'	☐
NGC5523	Sc	12.2	5x1	14 14 51	+25 19 05	8	BOO	48M	25	Nearly edge-on with knotty arms	☐
NGC5529	Sc	12.2	6x1	14 15 34	+36 13 35	8	BOO	132M	27	Edge-on with dust lane. Largest of a group of 17 galaxies	☐
NGC5566	SBab	10.6	6x1	14 20 20	+03 55 59	6	VIR	69M	55	GXTR68 12.4 10.6 13.2 N5560/66/69 TAU VIR-I	☐
NGC5576	E3	11.3	1x1	14 21 04	+03 16 17	6	VIR	68M	49	GXTR69 12.4 11.0 12.2 N5574/76/77 TAU VIR-II	☐
NGC5585	SBcd	10.9	6x4	14 19 48	+56 43 45	5	UMA	13M	34	Patchy gxy in M101 group	☐
NGC5590	S0	12.6	2x2	14 21 38	+35 12 17	8	BOO	147M	13	Pair with NGC 5589	☐
NGC5634	GC	9.8	5	14 29 37	-05 58 33	6	VIR	82k	59	Fairly small but bright globular	☐
NGC5638	E1	11.5	3x2	14 29 40	+03 13 59	6	VIR	77M	36	GXTR70 12.7 11.2 14.0 N5636/38/U9310 TAU VIR-III	☐
NGC5660	SBc	12.0	3x3	14 29 49	+49 37 20	5	BOO	107M	31	Face-on. Satellite galaxies inc. teardrop irr gxy MCG+08-26-038 & NGC 5676 at 30'	☐
NGC5676	Sbc	11.3	4x2	14 32 46	+49 27 25	5	BOO	113M	48	N 5660 at 30' IC 1029 at 26'; Many knotty arms	☐
NGC5678	SBb	11.5	3	14 32 06	+57 55 23	1	DRA	88M	3	Complex pattern of dark lanes & smooth outer arms	☐
NGC5689	SB0a	11.9	3x1	14 35 30	+48 44 30	5	BOO	116M	47	Bright bulge, dk lane on one side. Edge-on N5682 and face-on N5693 in same FOV	☐
NGC5694	GC	10.5	2	14 39 37	-26 32 16	6	HYA		57	C66 Rich with faint stars; distant globular ALP LIB GC	☐
NGC5701	SB0a	10.9	4x4	14 39 11	+05 21 49	6	VIR	69M	26	Situated within a triangle of 3 mag 10 stars	☐
NGC5713	SBbc	11.3	3	14 40 11	-00 17 24	6	VIR	87M	2	Round with bright core; interacting with N5719 at 12'	☐
NGC5728	Sab	11.7	3x2	14 42 24	-17 15 10	9	LIB	129M	21	13M N5716 is 0.5 deg SW	☐
NGC5746	SBb	10.5	7x1	14 44 56	+01 57 22	6	VIR	95M	72	HT74 Large, beautiful edge-on with hint of a dust lane ; Blade & Pearl, Mini Sombrero	☐
NGC5750	SB0a	11.8	3x2	14 46 11	-00 13 25	6	VIR	78M	20	Sheep's Eye Gxy	☐
NGC5775	SBc	11.7	4x1	14 53 57	+03 32 42	6	VIR	77M	24	Edge-on pretty pair with face-on IC1070	☐
NGC5792	SBb	11.5	7	14 58 23	-01 05 25	9	LIB	88M	15	Magazine cover shallow galaxy with bright star	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC5813	E1	10.8	4x3	15 01 11	+01 42 07	6	VIR	91M	48	Fairly high surface brightness elliptical at center of diamond asterism	☐
NGC5829	Sc	13.4	2	15 02 42	+23 20 00	8	BOO	259M	9	HCG073 13.4 N5829 IC4526	☐
NGC5838	ES0	11.1	4x2	15 05 26	+02 05 58	6	VIR	62M	37	Elongated spiral dominated by a bright core	☐
NGC5846	E1	10.3	4x4	15 06 29	+01 36 19	9	VIR	84M	83	SD69 Maiden's toe M/P. N5866A inside. N5850 10' sep & N5746 (HT74) nearby.	☐
NGC5854	SB0a	12.2	3x1	15 07 47	+02 34 06	6	VIR	80M	19	In NGC 5846 group, faint face-on spiral at 10'	☐
NGC5861	SBc	11.8	3x2	15 09 16	-11 19 20	9	LIB	85M	20	Small pretty spiral with long arms in dramatic group. Edge-on neighbour & elliptical N5858 at 10'	☐
NGC5864	SB0	12.1	3x1	15 09 33	+03 03 11	6	VIR	87M	19	In NGC 5846 group; bright lens with blobs	☐
NGC5878	Sb	11.8	4x1	15 13 45	-14 16 10	9	LIB	91M	23	Diffuse mottled disk and bright halo. Barred spiral 'mini-me' galaxy at 10'	☐
NGC5879	Sbc	11.7	4x1	15 09 47	+57 00 05	1	DRA	35M	32	Knotty arms, pair with small round N5865 at 5'	☐
NGC5888	SBbc	13.4	1	15 13 07	+41 15 52	8	BOO	401M	8	GXTR73 14.0 13.4 14.7 N5886/88/89 SHEPHERDS	☐
NGC5897	GC	9.0	13	15 17 25	-21 00 35	9	LIB	41k	92	HT76 Ghost GC. Low brightness. Resolved in larger scopes.	☐
NGC5899	SBc	11.9	3x1	15 15 03	+42 02 58	8	BOO	118M	19	Nice shallow spiral. Pretty group inc N5900 at 10'	☐
NGC5903	E2	11.2	3	15 18 37	-24 04 06	9	LIB	118M	22	GXTR74 11.4 11.1 13.3 N5898/5903/ESO 514-3 SCALES	☐
NGC5907	Sc	10.6	13x1	15 15 54	+56 19 49	1	DRA	50M	92	SD70 Splinter Gxy. Extremely large narrow streak. Needs dark sky H/P.	☐
NGC5915	SBab	12.3	2	15 21 33	-13 05 30	9	LIB	104M	12	GXTR75 12.3 13.4 14.3 N5915/5916/16A 3-JUDGES	☐
NGC5921	SBbc	11.1	5	15 21 56	+05 04 13	9	SER	68M	29	Long arms and prominent bar	☐
NGC5944	Sbc	14.9	0.7x0.2	15 31 48	+07 18 29	9	SER	464M	3	HCG076 14.9 13.9 14.3 14.8 N5944 M+01-40-003 N5941 N5942 GAM SER GRP	☐
NGC5962	Sc	11.3	3	15 36 32	+16 36 28	9	SER	90M	2	Mottled spiral with bright core	☐
NGC5970	SBc	11.8	3x2	15 38 30	+12 11 12	9	SER	90M	20	Mottled spiral with IC1331 at 10'	☐
NGC5982	E3	11.3	1x1	15 38 40	+59 21 22	1	DRA	139M	49	GXTR76 el round fuzzy very small 13.0 11.1 11.1 N5981/82/85	☐
NGC6015	Sc	11.3	5x2	15 51 25	+62 18 35	1	DRA	55M	43	Mottled mid-size mid-tilt	☐
NGC6027	S0	13.3	2	15 59 13	+20 45 50	9	SER	204M	30	HCG079 13.9 13.4 15.5 N6027A N6027E N6027B N6027C N6027D	☐
NGC6070	Sc	11.9	4x2	16 09 58	+00 42 32	9	SER	92M	37	GXTR77 Mid-size shallow spiral with faint companions 6-SNAKES	☐
NGC6106	Sc	12.4	3x1	16 18 47	+07 24 40	8	HER	67M	17	Compact with edge-on neighbour	☐
NGC6118	Sc	11.9	4x1	16 21 49	-02 17 01	9	SER	72M	41	Low surface brightness mid-size shallow spiral	☐
NGC6140	SBcp	11.3	6x5	16 20 57	+65 23 24	1	DRA	61M	13	Peculiar gxy near pole	☐
NGC6144	GC	9.7	7x7	16 27 14	-26 01 27	9	SCO	33k	62	SD72 faint oval fairly large elusive SIG SCO GC	☐
NGC6162	S0	13.6	0.9	16 28 22	+32 50 59	8	HER	514M	6	HCG082 13.6 14.3 14.6 N6162 N6163 N6161 HUNTSMEN	☐
NGC6166	E3	12.4	2x1	16 28 38	+39 33 05	8	HER	418M	14	Center of cluster; many faint galaxies near	☐
NGC6181	SBc	12.2	3x1	16 32 21	+19 49 32	8	HER	109M	18	Bright core, 2 arms in double-comma	☐
NGC6207	Sc	11.7	4x2	16 43 04	+36 49 55	8	HER	63M	75	SD73 Tiny dim spiral gxy near the Great GC (M13). DIM PUFF GXY	☐
NGC6210	PN	9.2	16"	16 44 30	+23 48 02	8	HER	5650	77	HT78 TURTLE PN. Unusually high surface brightness PN with bluish color.	☐
NGC6217	SBbc	11.6	2x1	16 32 39	+78 11 57	1	UMN	63M	39	Narrow filaments	☐
NGC6229	GC	9.5	4	16 46 59	+47 31 42	8	HER		77	SD74 PRIZE COMET GC. Compact and bright but requires large aperture to resolve.	☐
NGC6239	SBb	12.6	3x1	16 50 05	+42 44 22	8	HER	42M	17	Bright bar	☐
NGC6241	Sc	14.5	1x0.8	16 50 11	+45 25 16	8	HER	414M	3	GXTR79 14.6 15.2 Zwicky's Triplet	☐
NGC6284	GC	9.6	6x6	17 04 29	-24 45 51	9	OPH	49.9k	50	Easy round fairly bright small	☐
NGC6290	SBa	13.5	1	17 00 56	+58 58 15	1	DRA	238M	7	GXTR80 13.5 13.9 14.3 N6290/91/M+10-24-86 FIREDRAKES	☐
NGC6293	GC	8.7	8	17 10 10	-26 34 52	9	OPH		66	SD75 Small, compact globular 36-OPH GC	☐
NGC6302	PN	10.9	45"	17 13 44	-37 06 12	9+	SCO	3800	59	C69 Bug Nebula, unusual elongated planetary cut by dark lane	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC6309	PN	11.6	16"	17 14 04	-12 54 37	9	OPH	11k	49	SD76 Box Nebula, small but irregular planetary	☐
NGC6316	GC	8.9	5x5	17 16 37	-28 08 22	9	OPH	33.9k	50	Oval small bright	☐
NGC6334	EN		120	17 20 48	-36 06 12	9+	SCO		56	Bear's Claw nebula	☐
NGC6340	SOa	11.4	3x3	17 10 25	+72 18 17	1	DRA	55M	22	Brightest of 3; with IC 1254 and UGC 10762	☐
NGC6356	GC	8.7	10x10	17 23 35	-17 48 45	9	OPH	49.2k	65	SD77 Large bright globular - one that Messier missed	☐
NGC6366	GC	10.3	6	17 27 44	-05 04 34	9	OPH		26	Mid-size globular near bright star	☐
NGC6369	PN	11.7	38"	17 29 20	-23 45 33	9	OPH	3500	67	HT81 Beautiful annular ring planetary LITTLE GHOST NEBULA	☐
NGC6384	SBbc	10.5	6	17 32 24	+07 03 39	9	OPH	77M	13	Large spiral with faint bar	☐
NGC6441	GC	7.6	8	17 50 13	-37 03 02	9+	SCO	37.8k	61	HT86 Bright globular located just 4.5' E of mag 3.2 G Scorpii SILVER NUGGET CLUSTER	☐
NGC6445	PN	12.2	33"	17 49 15	-20 00 32	9	SGR	4400	67	HT84 Small but bright planetary in field with globular cluster NGC 6440 20' SSW BOX NEB 2	☐
NGC6491	Sab	13.6	1	17 50 01	+61 31 55	1	DRA	247M	7	GXTR81 13.6 14.4 14.4 N6491/93/U11007 BASILISKS	☐
NGC6503	Sc	10.4	7x2	17 49 28	+70 08 37	1	DRA	18M	79	HT85 LOST-IN-SPACE GXY. Dwarf spiral at edge of local void. Large, bright oval. Stunning in M/P.	☐
NGC6521	E2	12.9	2	17 55 48	+62 36 42	1	DRA	378M	10	GXTR82 Brightest in dense part of cluster;4 gxs in 8' region DRAGONS	☐
NGC6522	GC	9.5	6	18 03 34	-30 02 00	9	SGR	20k	71	SD78 Pair with NGC 6528 15' E in "Baade's Window" GAM SGR GC-I	☐
NGC6528	GC	10.0	5x5	18 04 50	-30 03 19	9	SGR	25.8k	61	SD79 Small GC near N6522 GAM SGR GC-II	☐
NGC6539	GC	9.1	8x8	18 04 50	-07 35 07	9	SER	27k	38	In heavily obscured area	☐
NGC6543	PN	8.4	20"	17 58 33	+66 38 01	1	DRA	3270	90	C6 Cat's Eye Neb. Distinctive electric-blu color. Use H/P. One of best PNs.	☐
NGC6544	GC	8.2	7	18 07 21	-24 59 49	9	SGR	10.8k	73	HT89 Small grainy globular in a rich star field STARFISH CLUSTER	☐
NGC6548	SBO	12.0	3x3	18 05 59	+18 35 14	8	HER	102M	19	Pair with N6549	☐
NGC6553	GC	8.9	9x9	18 09 16	-25 54 26	9	SGR	19.6k	55	Mid-size GC	☐
NGC6563	PN	12.0	48"	18 12 03	-33 52 04	10+	SGR	9500	46	SD80 Faint planetary in a rich star field, use filter STH RING NEB	☐
NGC6572	PN	8.4	11"	18 12 06	+06 51 15	9	OPH	9000	79	HT90 Emerald eye. Nice compact PN. Tiny disk in M/P. Outer neb H/P. Bluish.	☐
NGC6589	EN		15	18 16 52	-19 46 41	9	SGR		42	SD81 Pair with SD82 (N6590/95) STAR CLOUD NEB	☐
NGC6608	Scd	14.6	1x0.1	18 12 29	+61 17 55	1	DRA	309M	3	GXTR83 14.6 14.3 15.0 N6607/08/09 FIREFLIES	☐
NGC6624	GC	8.4	9x9	18 23 41	-30 21 38	9	SGR	16.3k	65	HT91 fairly large brt nucleus DEL SGR GC	☐
NGC6633	OC	4.8	27 & 40	18 27 15	+06 30 30	9	OPH	1230	75	HT92 Tweedledee stunning. 120' to Tweedledum (more stars) IC4756 (HT93)	☐
NGC6638	GC	9.5	7x7	18 30 56	-25 29 45	9	SGR	30.6k	62	SD83 small faint elusive LAM SAG GC	☐
NGC6642	GC	9.5	5	18 31 54	-23 28 33	9	SGR	25k	59	Compact globular, needs large aperture to resolve	☐
NGC6643	Sc	11.1	4x2	18 19 46	+74 34 06	1	DRA	72M	29	Multi arm spiral	☐
NGC6664	OC	8.2	12x12	18 36 31	-08 11 15	9	SCT	3800	46	SD84 SANTA'S SLEIGH CLUSTER	☐
NGC6709	OC	6.9	15x15	18 51 30	+10 20 00	9	AQL	3505	41	HT94 Voids at center, richest at western edge. Wide pair of blue and gold stars FLYING UNICORN CL	☐
NGC6712	GC	8.7	7	18 53 04	-08 42 20	9	SCT	22.5k	73	HT95 Irregular outline, require high power to resolve TIEN PIEN GC	☐
NGC6717	GC	8.6	5x5	18 55 06	-22 42 06	9	SGR	23.1k	50	SD85 Soft glowing GC; NU SGR GC	☐
NGC6723	GC	7.0	11	18 59 33	-36 37 52	9+	SGR	28.4k	64	HT96 Large, well resolved globular in field with bright nebula NGC 6723 AUSSIE GC	☐
NGC6751	PN	12.0	24"	19 05 56	-05 59 30	9	AQL		57	SD86 Glowing eye PN. Neglected gem nr lambda Aql. Snowy pufball in H/P.	☐
NGC6755	OC	7.9	15 & 4	19 07 49	+04 16 00	9	AQL	4635	65	SD87 Cat & mouse N6756 (SD88) at 20' sep. Small dim puff in L/P	☐
NGC6756	OC	10.7	4x4	19 08 43	+04 42 21	9	AQL	4915	44	SD88 very difficult like a globular	☐
NGC6781	PN	11.7	108"	19 18 28	+06 32 25	9	AQL	2500	80	SD90 GHOST MOON PN. Snowglobe PN. Large, annular PN.	☐
NGC6791	OC	9.5	10x10	19 20 53	+37 46 27	8	LYR	13.4k	19	Very rich	☐
NGC6802	OC	9.7	5x5	19 30 36	+20 15 42	8	VUL	3600	33	Bar shaped elong N-S faint small opaque disk of stars	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC6804	PN	12.4	1x0.8	19 31 35	+09 13 31	9	AQL	4200	53	SD91 SNOWBALL NEBULA	☐
NGC6811	OC	7.2	13	19 37 10	+46 22 32	8	CYG	3960	44	SD92 Fairly large, rich group in milky way THE SMOKE RING CLUSTER	☐
NGC6818	PN	9.8	20"	19 43 58	-14 09 09	9	SGR	7700	68	HT99 Little Gem, small, high surface brightness, bluish planetary	☐
NGC6819	OC	7.7	5	19 41 18	+40 11 00	8	CYG	7695	60	HT98 Foxhead rich octopus small and lonely condensed globe Low/P.	☐
NGC6820	C+N	15.0	40x30	19 42 28	+23 05 15	8	VUL	6000	47	LBN 135 w/6823 cluster	☐
NGC6822	IBm	9.0	15x13	19 44 57	-14 48 23	9	SGR	1.6M	90	C57 BARNARD'S GXY. Large low surf br, in local grp nr 22"x15" N6818 (HT99) Green Mars PN.	☐
NGC6823	OC	7.9	12	19 43 10	+23 18 00	8	VUL	6000	45	Includes four mag 9.5-11 stars at core of cluster	☐
NGC6826	PN	9.0	25"	19 44 48	+50 31 32	8	CYG	3250	86	C15 Blinking PN. In direct vision, nebula fades, & star appears.	☐
NGC6830	OC	8.3	6x6	19 51 00	+23 06 00	8	VUL	6000	34	POODLE CLUSTER 20 stars brt large easy	☐
NGC6857	EN	11.4	1	20 01 47	+33 31 38	8	CYG		37	Compact HII region surrounded by 4 stars and set in a rich field	☐
NGC6866	OC	8.0	7	20 03 55	+44 09 33	8	CYG	4730	62	HT100 FRIGATE BIRD CL. Rich appealing cluster. Many stars in an elongated string. Kite	☐
NGC6885	OC	8.1	20	20 11 58	+26 29 00	8	VUL		58	C37 VIXEN CL. Large bright clusters in complex Milky Way field.	☐
NGC6888	EN	9.5	20x10	20 12 06	+38 21 17	8	CYG	5000	96	C27 Crescent Neb. Big egg-shaped annulus of neb, use filter.	☐
NGC6891	PN	10.9	15"	20 15 09	+12 42 17	8	DEL	7200	59	SD95 Small, high surface brightness bluish oval BLUE OVAL PN	☐
NGC6894	PN	13.1	44"	20 16 23	+30 33 55	8	CYG		35	SD96 DIAMOND RING NEB	☐
NGC6905	PN	11.6	40"	20 22 23	+20 06 18	8	DEL	4700	80	SD98 Blue Flash Nebula, slightly elongated uniform brightness.	☐
NGC6907	SBbc	11.4	3x3	20 25 06	-24 48 32	10	CAP	146M	41	Barred spiral reveals arms in larger scopes HIDDEN ARMS GXY	☐
NGC6910	C+N	7.4	10	20 23 12	+40 46 43	8	CYG	3720	79	SD97 Inchworm. Crisp in Cyg cross-beam. IC1318 (SD99) 45'x20' neb 60' sep.	☐
NGC6934	GC	9.2	7	20 34 12	+07 24 17	10	DEL	50k	92	C47 ORCA GC. Compact GC mottled in 8 inch. 9th mag star 2' away. Use M/P.	☐
NGC6939	OC	8.4	8	20 31 30	+60 39 42	2	CEP	3870	63	SD100 FLYING GEESE CL. Beautiful cluster, rich in faint stars with gxy C12 40' SE. Ghost Bush.	☐
NGC6940	OC	6.4	31	20 34 32	+28 16 49	8	VUL	2700	70	HT101 MOTHRA CL. Rich star field including orange variable star FG Vul.	☐
NGC6946	SBc	9.3	12x10	20 34 52	+60 09 12	1	CEP	20M	95	C12 Firecracker Gxy. Big dim spiral. L/P. Nearby cl N6939 (SD100) is better.	☐
NGC6951	SBbc	11.1	4	20 37 14	+66 06 21	1	CEP	65M	29	Face-on with long arms	☐
NGC6960	EN	7.3	70x6	20 45 58	+30 35 42	8	CYG	1470	100	C34 W Veil Neb. 52 Cygni, use L/P filter. Lock silver hair flows from star.	☐
NGC6978	Sb	13.3	2	20 52 35	-05 42 40	10	AQR	277M	10	HCG088 13.3 13.2 14 14.8 N6978 N6977 N6976 M-01-53-014 FLAGONS	☐
NGC6992	EN	7.3	60x8	20 56 19	+31 44 36	8	CYG	1470	100	C33 E Veil Neb. V large, good filaments in dark skies, use filter.	☐
NGC7000	EN	6.0	120x100	20 59 18	+44 31 00	8	CYG		99	C20 N America Neb. Excellent in dark skies. Low power & filter.	☐
NGC7006	GC	10.7	4	21 01 30	+16 11 17	10	DEL	114k	77	C42 DOLPHIN GC. Dim GC. Use med power. Needs dark sky.	☐
NGC7008	PN	12.2	86"	21 00 33	+54 32 38	2	CYG	2800	80	HT103 Fetus bright annular PN unusual structure near 9th mag star. Filter H/P.	☐
NGC7009	PN	8.1	29"	21 04 11	-11 21 47	10	AQR	4000	89	C55 Saturn Nebula. Small but very bright. Tight inner ring. Pale green halo.	☐
NGC7023	C+N	7.4	18x18	21 01 36	+68 10 10	1	CEP		89	C4 Iris Neb. Large unusual nebulosity around a mag 7 star. Glorious in H/P.	☐
NGC7026	PN	11.6	20"	21 06 19	+47 51 10	2	CYG	7110	74	SD101 CHEESEBURGER NEB. Small but with double condensations. Use H/P. Dbl star-like in L/P.	☐
NGC7027	PN	9.3	14"	21 07 02	+42 14 12	8	CYG	3000	77	HT104 GUMMY BEAR. Bright PN double lobe. Brightest smallest PN in sky. Blu/grey. Very H/P.	☐
NGC7048	PN	11.5	60"	21 14 15	+46 17 21	2	CYG		66	SD102 PEEK-A-BOO NEB	☐
NGC7129	C+N	11.8	8x7	21 42 59	+66 06 48	2	CEP		62	SD103 Small group of stars in nebulosity COSMIC ROSEBUD NEB	☐
NGC7160	OC	6.3	5x5	21 53 40	+62 36 12	2	CEP	2580	47	SD104 THE BRUCE LEE CLUSTER 25 bright stars	☐
NGC7177	SBb	11.5	3x2	22 00 41	+17 44 17	10	PEG	52M	22	Eye of Sauron gxy	☐
NGC7184	SBc	11.1	6x2	22 02 39	-20 48 46	10	AQR	120M	44	Large, narrow edge-on With Saturn-like inner ring	☐
NGC7209	OC	7.2	25	22 05 08	+46 29 00	2	LAC	3810	68	SD105 Star lizard large, fairly rich and uniform. Hook-shape in L/P.	☐
NGC7217	Sb	10.3	4x3	22 07 52	+31 21 34	10	PEG	44M	54	Round elliptical with a bright core	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
NGC7218	SBc	12.3	3x1	22 10 11	-16 39 36	10	AQR	76M	18	Central mass appears triple	☐
NGC7243	OC	6.4	21	22 15 09	+49 53 51	2	LAC	2640	69	C16 SEAGULL CL. Excellent low power field, incudes double star.	☐
NGC7265	ESO	12.2	2	22 22 28	+36 12 37	2	LAC	234M	15	GXTR85 14.5 13.8 12.2 N7263/4/5 CROCS	☐
NGC7270	Sc	13.9	0.9	22 23 48	+32 24 11	10	PEG	306M	6	GXTR86 1 of 2 brightest in group of 6 or more galaxies PONIES	☐
NGC7293	PN	7.0	980"	22 29 38	-20 50 11	10	AQR	700	80	C63 Helix Nebula. Wonderful, huge PN. Use filter.	☐
NGC7320	Scd	13.0	2x1	22 36 06	+33 57 00	10	PEG		46	HCG092 Brightest member of Stephan's Quintet, compact group of 5 galaxies near NGC 7331	☐
NGC7331	Sbc	9.7	11x4	22 37 05	+34 25 13	10	PEG	46M	95	C30 NR STEFAN'S QUIN. Very large, long spiral near faint Stefan's quintent.	☐
NGC7332	S0p	11.5	4x1	22 37 24	+23 47 54	10	PEG	54M	25	Bright halo & box shaped core; nice double edge-on pair with 7339 at 5'	☐
NGC7354	PN	12.6	28"x20"	22 40 19	+61 17 07	2	CEP		38	SD106 DEL CEP PN	☐
NGC7377	SB0a	11.5	3x3	22 47 47	-22 18 38	10	AQR	153M	22	13M N7349 is 1.0 deg SW	☐
NGC7380	C+N	7.5	20	22 47 21	+58 07 54	2	CEP	7200	86	HT106 Wizard neb & cluster. Mystical & complex. Harry Potter plays Quidditch.	☐
NGC7448	Sbc	11.7	2x1	23 00 04	+15 58 48	10	PEG	101M	39	Small spiral, 30' from N7463/64/65 group	☐
NGC7449	E3	14.0	1	22 59 38	+39 08 45	2	AND	234M	6	GXTR88 14.6 14.4 14.0 N7445/46/49	☐
NGC7457	ESO	11.4	4x2	23 01 00	+30 08 42	10	PEG	37M	25	Bright core elliptical	☐
NGC7465	SB0	12.8	1x1	23 02 01	+15 57 54	10	PEG	90M	34	GXTR89 13.2 13.3 12.6 N7463/64/65 DARTMOORS	☐
NGC7479	SBc	11.1	4x3	23 04 57	+12 19 20	10	PEG	111M	87	C44 Propellor Gxy. Long bar spiral, arms visible. Asymmetric core in M/P.	☐
NGC7499	S0	12.8	1	23 10 22	+07 34 52	10	PSC	539M	10	GXTR90 12.8 13.4 13.2 N7499/7501/03 LAMPREYS	☐
NGC7510	OC	8.1	4	23 11 04	+60 34 08	2	CEP	6770	62	SD107 DORMOUSE CL. Striking wedge-shaped cluster. 7538 (SD108) Lagoon neb & M52 nearby.	☐
NGC7530	S0a	12.9	0.9x0.5	23 14 12	-02 46 44	10	PSC	162M	5	GXTR91 12.1 13.5 13.5 N7530/32/34 MINNOWS	☐
NGC7538	EN		8	23 13 38	+61 30 42	2	CEP		28	SD108 Filamentary struct in neby	☐
NGC7541	SBc	11.9	4x1	23 14 43	+04 32 04	10	PSC	110M	32	14M N7537 is 0.1 deg SW	☐
NGC7550	ESO	12.2	1	23 15 16	+18 57 39	10	PEG	233M	11	HCG093 12.2 13 13.7 14.7 14.9 N7550 N7549 N7547 N7553 N7558 MARKAB GRP-I	☐
NGC7562	E2	11.9	2x2	23 15 57	+06 41 15	10	PSC	166M	35	GXTR92 14.1 11.6 14.8 N7557/62/U12467	☐
NGC7578	S0	13.5	1.4x1.4	23 17 12	+18 42 05	10	PEG	555M	4	HCG094 14 13.3 15.2 15.3 N7578B N7578A P70943 MARKAB GRP-I	☐
NGC7606	Sb	11.0	4x2	23 19 05	-08 29 11	10	AQR	103M	48	Beautiful complex large spiral	☐
NGC7619	E1	11.5	3x2	23 20 14	+08 12 22	10	PEG	173M	40	Brightest member of the Pegasus I galaxy cluster	☐
NGC7635	EN	10.5	15x8	23 20 45	+61 11 42	2	CAS		82	C11 Bubble Nebula, unusual HII region located 35' SW of M52.	☐
NGC7640	SBc	11.4	11x2	23 22 06	+40 50 44	2	AND	17M	30	Nearly edge on spiral	☐
NGC7662	PN	8.6	17"	23 25 54	+42 32 08	2	AND	2000	89	C22 Blue Snowball. Very bright annular at H/P.	☐
NGC7674	SBbc	13.2	1	23 27 57	+08 46 43	10	PEG	398M	8	HCG096 13.2 14.9 N7674 N7675 M+01-59-081 SHETLANDS	☐
NGC7727	SBap	10.9	3	23 39 54	-12 17 34	10	AQR	86M	40	Faint outer arms ext to 5'	☐
NGC7742	Sb	12.0	2x2	23 44 15	+10 46 01	10	PEG	76M	16	Pair with N7743	☐
NGC7769	Sb	12.0	2	23 51 04	+20 09 02	10	PEG	194M	12	GXTR93 12.0 13.8 12.2 N7769/70/71 EXMOORS	☐
NGC7778	E0	12.7	1	23 53 20	+07 52 14	10	PSC	240M	9	GXTR94 12.7 12.7 13.9 N7778/79/81 SEAHORSES	☐
NGC7783	S0	13.0	1.3x0.6	23 54 10	+00 23 00	10	PSC	365M	5	HCG098 13 14 15.3 N7783 N7783B M+00-60-059 M+00-60-060	☐
NGC7789	OC	7.1	16	23 57 29	+56 42 52	2	CAS	7600	65	HT108 Screaming skull. Remarkably rich and uniform in faint stars! Caroline's Rose	☐
NGC7790	OC	8.3	5x5	23 58 24	+61 12 30	2	CAS	9600	45	SD109 THE WIDOW'S WEB CLUSTER 25 stars nebulous	☐
NGC7793	Scd	9.3	9x6	23 57 49	-32 35 30	10+	SCL	13M	61	HT109 Large, face-on spiral of fairly low surface brightness ; Bond's Gxy.	☐
NGC7803	S0a	13.1	1	00 01 20	+13 06 41	10	PEG	247M	8	HCG100 Brightest in chain of 6 HORSES	☐
NGC7814	Sab	10.8	6x2	00 03 14	+16 08 43	10	PEG	40M	94	C43 Electric Arc Gxy. Bright edge-on with dust lane.	☐

Name	Type	Mag	Size	RA	DEC	Map	Con	Dist	/100	Description	Obs
IC10	IBm	12.3	6x5	00 20 25	+59 17 33	2	CAS	2.8M	10	Mem. of Local Group;very obscured;several H II regions	☐
IC59	EN		10	00 57 29	+61 08 37	2	CAS		5	Neb patch 30' N of Gamma Cas	☐
IC342	SBc	9.5	16x15	03 46 48	+68 05 44	1	CAM	1M	72	C5 Hidden Gxy. Face-on. Spiral structure obvious in L/P.	☐
IC405	RN	8.0	30x20	05 16 29	+34 21 22	3	AUR		77	C31 Flaming Star Neb. Use L/P. Surprisingly easy to find. Brightest star in kite.	☐
IC410	EN	7.5	30x30	05 22 45	+33 24 48	3	AUR	11k	56	Incl cluster NGC 1893	☐
IC417	EN		13	05 28 06	+34 25 26	3	AUR		39	SD22 Near the fly (N1931 SD23) SPIDER CL	☐
IC418	PN	10.0	14"x11"	05 27 28	-12 41 48	4	LEP	3600	57	HT28 Raspberry. Tiny pale blu star in L/P. Detail in H/P to see central start. Spirograph	☐
IC443	SNR	12.0	50	06 16 36	+22 31 00	3	GEM		56	Filamentary structure	☐
IC528	Sab	14.1	1.5x0.8	09 09 23	+15 47 45	6	CNC	175M	3	HCG036 14.1 IC528 LOBSTERS	☐
IC737	ESO	13.8	0.6x0.5	11 48 28	+12 43 38	6	LEO	189M	4	HCG059 13.8 14.6 14.9 15.2 IC737 IC736 M+02-30-041 M+02-30-040 SHUTTLE GRP-III	☐
IC1318	EN	10.0	240	20 22 14	+40 15 24	8	CYG	18k	67	SD97 gamma Cyg neb. complex; low power & filter	☐
IC1396	EN	3.5	170x140	21 38 54	+57 29 20	2	CEP		76	Extremely large haze glow about 2° diameter, use filter	☐
IC1434	OC	9.0	7x7	22 10 30	+52 50 00	2	LAC	9895	5	Collinder 445 fine	☐
IC1613	IBm	9.2	19x17	01 04 48	+02 07 07	10	CET	2M	70	C51 Scarecrow Gxy. Patrick's odd pick. Irr barred dwarf. V dim. Challenging.	☐
IC1805	C+N	6.5	20x20	02 32 48	+61 27 42	2	CAS	6150	38	The Heart Nebula/The Running Dog Nebula/Valentine Nebula & IC1795 fish head (brightest part).	☐
IC2177	EN		20	07 04 25	-10 27 13	4	MON		29	Streamer incl bright patches 2337 & Gum 1;Seagull nebula	☐
IC2574	SBm	10.6	11	10 28 22	+68 25 00	5	UMA	3M	27	Coddington Galaxy	☐
IC3568	PN	10.8	10"	12 33 07	+82 33 51	1	CAM	9000	64	HT64 Lime slice. Tiny symmetric PN. H/P & Filter. Looks like 2 stars 2" sep. THEORITICIAN NEBULA	☐
IC4371	SB0a	14.1	0.9x0.6	14 04 11	+33 18 29	5	CVN	377M	3	HCG070 15.2 14.1 14.2 15.2 15.4 U08990 IC4371 M+06-31-065 IC4370 IC4369 WOLVES	☐
IC4381	Sc	13.7	2.5x1.4	14 10 57	+25 29 47	8	BOO	425M	3	HCG071 13.7 14.4 15.3 IC4381 IC4382	☐
IC4593	PN	10.9	0.2x0.2	16 11 45	+12 04 19	8	HER	3400	36	SD71 WHITE-EYED PEA NEBULA	☐
IC4665	OC	4.2	45x45	17 46 12	+05 43 00	9	OPH	1150	66	MC105 SUMMER BEEHIVE CL. Naked-eye cluster, resolved in binoculars. Poseidon's trident.	☐
IC4756	OC	4.7	52	18 38 54	+05 26 00	9	SER	1580	58	HT93 Unusually large naked-eye cluster, use lowest power TWEEDLEDEE CLUSTER	☐
IC5067	EN	8.0	60	20 47 50	+44 22 00	2	CYG		59	Pelican Nebula;w IC 5067;56 Cyg invl	☐
IC5146	EN	8.6	12x12	21 53 24	+47 16 00	2	CYG		75	C19 Cocoon Neb. Big faint neb. End long dark lane. L/P. Drowned by pair stars.	☐
IC5357	ESO	12.9	0.9x0.5	23 47 23	-02 18 02	10	PSC	319M	5	HCG097 12.9 14.7 14 13.6 IC5357 IC5359 IC5356 IC5351 TIDDLERS	☐
B33	DN		6x4	05 40 54	-02 28 00	4	ORI		26	Horsehead Nebula - requires dark sky and filter	☐
B65	DN		12	17 19 36	-26 42 00	9	OPH		1	Pipe nebula (stem); 2 deg south of Theta Oph;	☐
B78	DN		200	17 33 00	-25 36 00	9	OPH		52	The 'Bowl' of the Pipe nebula	☐
B86	DN		5x3	18 03 00	-27 52 00	9	SGR	5150	42	Stunning dark splotch is just west of the very rich cluster NGC 6520	☐
B92	DN		12x6	18 15 36	-18 14 00	9	SGR	10k	44	Large, dark cloud form a similar pair with B93 about 25' E	☐
B133	DN		10	19 06 06	-06 50 00	9	AQL		5	Cometary; On Scutum star cloud	☐
B142	DN		80x50	19 40 42	+10 37 00	9	AQL		60	Well-defined dark nebula forming a large dark "E" with B143	☐
Mel20	OC	1.2	185	03 24 18	+49 52 00	3	PER		70	HT14 Alpha Per moving cluster (Mag w/o Alpha Per)	☐
Mel111	OC	1.8	275	12 25 00	+26 00 00	6	COM		74	HT62 Coma Star Cluster, scattered naked-eye group of 30 stars mag 5 and fainter	☐
Tr1	OC	8.1	5	01 35 42	+61 17 00	2	CAS	8350	17	Distinctive, small group MINI ORION	☐
Cr399	OC	3.6	60	19 25 24	+20 11 00	8	VUL		64	HT97 Coathanger Brocchi's cluster (HT97), naked-eye best in binocs.	☐
3C 273	Qu	13.0		12 29 06	+02 03 00	6	VIR	2B	62	SD59 Brightest Qu ; ~2 billion light years, variable	☐
ARP248	SBb	12.9	1.2x0.5	11 46 48	-03 54 00	6	VIR		2	GXTR48 13.4:12.9:13.5 Wild's Triplet	☐
Sh2-155	EN	10.0	50x30	22 54 45	+62 21 01	2	CEP		82	C9 Cave Nebula. Challenging. Use low power and filter.	☐

C#	Name	Type	Mag	Size	Map	Description	C#	Name	Type	Mag	Size	Map	Description
C1	NGC188	OC	8.3	14	1	Dim, ancient open cl. nr Polaris	C35	NGC4889	E3	11.5	3x2	6	Cyrene gxy. Best in Coma Cluster
C2	NGC40	PN	10.7	48"	1	Bowtie Neb	C36	NGC4559	SBc	10.1	11x4	6	Carthage gxy. Very large, elongated gxy
C3	NGC4236	SBdm	9.8	20x8	1	Dragon Gxy. Large barred spiral	C37	NGC6885	OC	8.1	20	8	Vixen Cluster in complex Milky Way field
C4	NGC7023	C+N	7.4	18x18	1	Iris Neb. Large unusual nebulosity	C38	NGC4565	Sb	9.7	16x2	6	Needle Gxy. Beautiful edge-on. Dust lane
C5	IC342	SBc	9.5	16x15	1	Hidden Gxy. Face-on spiral	C39	NGC2392	PN	9.1	20"	3	Eskimo Neb. Double shell structure
C6	NGC6543	PN	8.4	20"	1	Cat's Eye Neb. Distinctive electric-blu color	C40	NGC3626	SOa	11.2	3x2	6	Elsa gxy. Lenticular
C7	NGC2403	SBc	8.7	22x12	1	LLama (Fireworks) Gxy. Large spiral w arms	C42	NGC7006	GC	10.7	4	10	Dolphin GC. Needs dark sky
C8	NGC559	OC	9.2	7.00	2	Ghost's Goblet. Colorful cup-shaped cluster	C43	NGC7814	Sab	10.8	6x2	10	Electric Arc gxy. Edge-on with dust lane
C9	Sh2-155	EN	10.0	50x30	2	Cave Nebula. Challenging	C44	NGC7479	SBc	11.1	4x3	10	Propellor Gxy. Long bar spiral w/arms
C10	NGC663	OC	7.2	16.00	2	Horseshoe. Rich cluster with several dbls	C45	NGC5248	SBbc	10.5	6x5	6	Shepherd gxy. Large w/ well-defined core
C11	NGC7635	EN	10.5	15x8	2	Bubble Nebula, unusual HII region	C46	NGC2261	E+R	10.0	2x1	4	Hubble's Variable Neb. Comet-like
C12	NGC6946	SBc	9.3	12x10	1	Firecracker Gxy. Big dim spiral	C47	NGC6934	GC	9.2	7	10	Orca GC. Compact mottled
C13	NGC457	OC	6.6	13.00	2	ET Cluster. Beautiful bird-shaped	C48	NGC2775	Sab	10.5	4x3	6	Cancra cxy. Bright core w/ large, faint halo
C14	NGC869	OC	4.7	18 each	2	Famous Double Cluster w/884	C49	NGC2237	EN	7.0	80x60	4	Rosette Neb. Annular, surrounding cluster
C15	NGC6826	PN	9.0	25"	8	Blinking PN	C50	NGC2244	OC	5.0	24	4	Rosette Cluster. Bright rectangular group
C16	NGC7243	OC	6.4	21.00	2	Seagull Cluster	C51	IC1613	IBm	9.2	19x17	10	Scarecrow Gxy. Patrick's odd pick. Irr dwarf
C17	NGC147	E5p	9.5	18x11	2	Thorin Gxy. Dwarf sat. of M31, pair w/C18	C52	NGC4697	E6	9.4	7x5	6	Bright oval / core & faint halo. Nr N4699
C18	NGC185	E3	9.4	12x10	2	Gimli Gxy. Round dwarf pair w/C17	C53	NGC3115	ES0	9.2	7x3	6	Spindle gxy. One of most beautiful
C19	IC5146	EN	8.6	12x12	2	Cocoon Neb. Big faint neb	C54	NGC2506	OC	7.9	12	4	Unicorn CL. Knot of stars in Milky Way
C20	NGC7000	EN	6.0	120x100	8	N America Neb. Excellent in dark skies	C55	NGC7009	PN	8.1	29"	10	Saturn Neb. Tight inner ring. Pale green halo
C21	NGC4449	IBm	9.6	6x4	5	Box Gxy. Large, bright irregular	C56	NGC246	PN	9.6	245"	10	Skull PN. Large annular.
C22	NGC7662	PN	8.6	17"	2	Blue Snowball	C57	NGC6822	IBm	9.0	15x13	9	Barnard's gxy. In local grp nr N6818
C23	NGC891	Sb	10.1	13x3	3	Outer Limits Gxy. Beauty edge-on	C58	NGC2360	OC	7.7	14	4	Caroline's Cluster. Rich and splendid.
C24	NGC1275	S0p	11.8	2x2	3	Perseus A gxy cluster	C59	NGC3242	PN	8.1	25"	6	Ghost of Jupiter. Double shell "eye". Green
C25	NGC2419	GC	10.7	4.70	3	Intergalactic Wanderer - most distant GC	C60	NGC4038	SBm	10.6	5x3	6	Antenna Gxy - interacting w/C61
C26	NGC4244	Sc	10.4	17x2	5	Silver Needle Gxy. Pair w/ 4214	C61	NGC4039	SBm	10.9	10x5	6	Ringtail Gxy w/C60
C27	NGC6888	EN	9.5	20x10	8	Crescent Neb. Big egg-shaped annulus	C62	NGC247	SBcd	9.2	21x7	10	Milkweed Gxy. Very large, elongated
C28	NGC752	OC	5.8	50.00	2	Almach Cluster. Colorful pairs	C63	NGC7293	PN	7.0	980"	10	Helix Nebula. Wonderful, huge PN
C29	NGC5005	SBbc	10.0	6x3	5	Poodle Gxy. Pair w/5033	C64	NGC2362	OC	4.0	8	4	Tau C-Maj Arkenstone Cluster. Rich group
C30	NGC7331	Sbc	9.7	11x4	10	Very large, long spiral nr Stefan's quintent	C65	NGC253	SBc	7.2	28x7	10	Sculptor Gxy. Best in South Sky
C31	IC405	RN	8.0	30x20	3	Flaming Star Neb	C66	NGC5694	GC	10.5	2	6	Rich with faint stars; distant globular
C32	NGC4631	SBcd	9.3	16x3	5	Whale Gxy. Beauty edge-on with calf	C69	NGC6302	PN	10.9	45"	9+	Bug Nebula, odd elongated PN w/dark lane
C33	NGC6992	EN	7.3	60x8	8	E Veil Neb. V large w/ filaments	C70	NGC300	Scd	8.5	22x16	10	Sth Pinwheel. Very large, face-on spiral
C34	NGC6960	EN	7.3	70x6	8	W Veil Neb	C72	NGC55	SBm	7.9	32x6	10+	Sculptor Galaxy Group (irregular)

Selected Caldwell Objects

RA	DEC	OBJECT	RA	DEC	OBJECT	RA	DEC	OBJECT	RA	DEC	OBJECT	RA	DEC	OBJECT	RA	DEC	OBJECT	RA	DEC	OBJECT
00 01 20			01 04 48			02 01 17			03 02 37			05 04 00			06 18 38			07 36 51		
00 01 20 +13 06 41 NGC7803			01 04 48 +02 07 07 IC1613			02 01 17 +28 50 17 NGC784			03 02 37 -22 52 03 NGC1187			05 04 00 +23 38 42 NGC1750			06 18 38 +78 21 21 NGC2146			07 36 51 +65 36 06 NGC2403		
00 03 14 +16 08 43 NGC7814			01 08 23 +33 08 00 NGC392			02 08 21 +10 59 41 NGC821			03 03 34 +46 23 09 NGC1169			05 04 30 -07 16 00 NGC1909			06 27 15 -04 45 30 NGC2232			07 38 09 +38 52 57 NGC2419		
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