

Star Hoppers Guide to the Universe (Rev: 2025-05-05)

Bold items are seasonal highlights

ID	Const	Type	Name	Size '	S.B.	Mag-1	Mag-2	Sep "	R.A.	Declination
M-110	And	Galaxy	Satellite Of Andromeda Galaxy, NGC205, UGC426,Satellite of Andromeda 1	19.5x11.5	23.4	8.9			00:40:22	+41°41'07"
M-32	And	Galaxy	Satellite Of Andromeda Galaxy, NGC221, UGC452,Satellite of Andromeda 2	8.5x6.5	22.1	9.1			00:42:42	+40°51'54"
M-31	And	Galaxy	Andromeda Galaxy, NGC224, UGC454,Andromeda A,Andromeda Galaxy	189.1x61.7	23.1	4.3			00:42:44	+41°16'08"
NGC-404	And	Galaxy	Mirach's Ghost	4.4	21.9	10.1			01:09:27	+35°43'05"
NGC-752	And	Open		50.0	22.8	5.7			01:57:41	+37°47'06"
Almach	And	Dbl	SAO-037734, HIP-9640, STF205, Almach,Almach, BD+41 00395, WDS02039+4220			2.3	5.0	9.5	02:03:54	+42°19'47"
NGC-891	And	Galaxy		13.5	24.3	10.0			02:22:33	+42°20'54"
NGC-7662	And	P Neb	Blue Snowball	2.2	19.3	9.0			23:25:54	+42°32'06"
V Aquilae	Aql	Carbon	SAO-142985, HIP-93666, GC26226, HD177336, HR7220			6.7			19:04:24	-05°41'06"
NGC-6751	Aql	P Neb		0.3	19.0	13.0			19:05:56	-05°59'31"
NGC-6781	Aql	P Neb		1.8	21.9	12.0			19:18:28	+06°32'20"
M-72	Aqr	Globular	NGC6981	5.9	22.5	10.0			20:53:28	-12°32'14"
M-73	Aqr	Open+Asterism	NGC6994	3.0	20.0	9.0			20:58:56	-12°38'07"
NGC-7009	Aqr	P Neb	Saturn Nebula	1.7	17.8	8.0			21:04:11	-11°21'50"
M-2	Aqr	Globular	NGC7089	12.9	21.7	7.5			21:33:27	-00°49'23"
NGC-7293	Aqr	P Neb	Helix Nebula	12.8					22:29:38	-20°50'13"
Mesarthim	Ari	Dbl	SAO-092681, HIP-8832, HD11502, γ Ari, 5 Ari, HR546			4.8	4.8	7.8	01:53:32	+19°17'37"
IC-405	Aur	BrNeb	Caldwell 31, Flaming Star Nebula	30.0x19.0		99.0			05:16:12	+34°16'00"
NGC-1907	Aur	Open		7.0	21.1	8.2			05:28:05	+35°19'30"
M-38	Aur	Open	Starfish Cluster, NGC1912	21.0	22.2	7.0			05:28:40	+35°50'54"
M-36	Aur	Open	Pinwheel Cluster, NGC1960	12.0	20.5	6.5			05:36:18	+34°08'24"
M-37	Aur	Open	Auriga Salt-and-pepper Cluster, January Salt-and-pepper Cluster, NGC2099,Aur	24.0	21.5	6.0			05:52:18	+32°33'12"
NGC-5248	Boo	Galaxy		6.5	22.9	10.2			13:37:32	+08°53'08"
Asellus Tertius	Boo	Dbl	SAO-029045, HIP-69481, κ Boo, SACDBL188, 17 Boo, HR5328			4.6	6.6	13.4	14:13:30	+51°47'00"
Izar	Boo	Triple	SAO-83500, HIP-72105, Pulcherrima, HD129989, ε Boo, 36 Boo, HR5506			2.7	5.3	2.8	14:44:59	+27°04'27"
Xi Bootis	Boo	Mult	SAO-101250, HD131156, ξ Boo, 37 Boo, HR5544			4.6	6.7	7.2	14:51:23	+19°06'04"
IC-342	Cam	Galaxy	C 5, PGC 13826	17.8	23.9	9.0			03:46:49	+68°05'46"
IC-342	Cam	Galaxy	The Hidden Galaxy, C-5, PGC-13826	17.8	23.9	9.0			03:46:49	+68°05'46"
NGC-1502	Cam	Open		8.0	18.8	5.7			04:07:50	+62°19'54"
NGC-2403	Cam	Galaxy	C 7, PGC 21396	17.8	23.3	8.4			07:36:51	+65°36'07"
M-30	Cap	Globular	NGC7099	11.0	22.3	8.5			21:40:22	-23°10'45"
WZ Casiopeiae	Cas	Dbl	SAO-021002, HIP-99, HD 224855, STTA-254, SACDBL290			7.6	8.7	58.1	00:01:12	+60°21'00"
NGC-147	Cas	Galaxy		12.9	23.5	9.3			00:33:12	+48°30'27"
NGC-185	Cas	Galaxy		11.5	23.1	9.2			00:38:58	+48°20'14"
NGC-436	Cas	Open		6.0	21.3	8.8			01:15:58	+58°48'42"
NGC-457	Cas	Open	Dragonfly Cluster,ET Cluster,Owl Cluster,Phi Cassiopeiae Cluster	13.0	20.6	6.4			01:19:35	+58°17'12"
NGC-559	Cas	Open	C-8	4.0	21.1	9.5			01:29:31	+63°18'24"
M-103	Cas	Open	NGC581	6.0	19.5	7.0			01:33:23	+60°39'00"
NGC-663	Cas	Open	C-10	16.0	21.7	7.1			01:46:09	+61°14'06"

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Iota Cassiopeiae	Cas	Dbl	SAO-012298, HIP-11569, STF-262, ADS-1860			4.7	7.6	1.9	02:29:06	+67°24'00"
NGC-7635	Cas	Neb	Bubble Nebula	15.0					23:20:45	+61°12'42"
M-52	Cas	Open	The Scorpion, NGC7654,Cassiopeia Salt-and-Pepper,October Salt-and-Pepper	13.0	22.2	8.0			23:24:48	+61°35'36"
Achird	Cas	Dbl	SAO-021732, HIP-3821, STF60, 24 Cas, HR-219, Eta Cassiopeiae			7.3	12.6	82.5	23:33:36	+60°28'00"
NGC-7789	Cas	Open	Caroline's Rose, Caroline's Haystack, White Rose Cluster	16.0	21.3	6.7			23:57:24	+56°42'30"
NGC-40	Cep	P Neb	C2, Bow-Tie Nebula	0.6	19.9	12.4			00:13:00	+72°32'00"
NGC-188	Cep	Open	C1, Polarissima Cluster	14.0	22.5	8.1			00:44:24	+85°20'00"
NGC-6939	Cep	Open		8.0	20.9	7.8			20:31:30	+60°39'42"
NGC-6946	Cep	S Gal	Fireworks Galaxy, C12	11.0x10.0	22.6	8.9			20:34:48	+60°09'00"
NGC-7023	Cep	BrNeb	Iris Nebula, C4	18.0					21:01:48	+68°12'00"
Mu Cephei	Cep	Star+Var Star	SAO-033693, HIP-107259, Garnet Star, Erakis, ADS-15271			3.6	4.1		21:43:30	+58°46'48"
SH 2-115	Cep	BrNeb	Cave Nebula, LBN529, C9, S155	60.0x30.0					22:56:44	+62°37'04"
M-77	Cet	Galaxy	Squid Galaxy, NGC-1068, Cetus A, NGC1068, UGC2188	7.3x6.3	22.5	9.7			02:42:41	-00°00'48"
M-41	CMa	Open	Little Beehive, NGC2287	38.0	21.5	5.0			06:46:01	-20°45'24"
NGC-2360	CMa	Open	Caroline's Cluster, C-58	13.0	21.4	7.2			07:17:43	-15°38'30"
NGC-2362	CMa	Open	Mexican Jumping Star, C-64, Tau Canis Majoris Cluster	8.0	17.2	4.1			07:18:41	-24°57'18"
M-44	Cnc	Open	Praesepe, Beehive Cluster, NGC2632,Beehive Cluster,Manger (Praesepe),Praesepe	95.0	22.5	4.0			08:40:24	+19°40'00"
M-67	Cnc	Open	King Cobra, NGC2682	30.0	23.5	7.5			08:51:18	+11°48'00"
NGC-2775	Cnc	Galaxy	C 48, PGC 25861	4.5	22.2	10.3			09:10:20	+07°02'16"
M-98	Com	Galaxy	NGC4192, UGC7231	9.4x2.3	22.9	10.9			12:13:48	+14°54'01"
M-99	Com	Galaxy	Virgo Cluster Pinwheel/Coma Pinwheel Galaxy, NGC4254, UGC7345,Coma Pinwheel	5.3x4.6	22.5	10.4			12:18:50	+14°25'01"
M-100	Com	Galaxy	Mirror of M99, NGC4321, UGC7450	7.5x6.1	22.9	10.1			12:22:55	+15°49'21"
Mel-111	Com	Open	Coma Berenices Cluster,Coma Star Cluster, Collinder 256	275.0	22.6	1.8			12:25:00	+26°00'00"
M-85	Com	Galaxy	NGC4382, UGC7508	7.4x5.9	22.7	10.0			12:25:24	+18°11'27"
NGC-4394	Com	Galaxy		3.9	22.5	10.9			12:25:56	+18°12'50"
M-88	Com	Galaxy	NGC4501, UGC7675	6.8x3.7	22.3	10.2			12:31:59	+14°25'12"
M-91	Com	Galaxy	Missing Messier Object, NGC4548, UGC7753	5.2x4.2	22.9	10.9			12:35:27	+14°29'47"
NGC-4559	Com	Galaxy	C-36	10.5	23.6	9.9			12:35:58	+27°57'35"
NGC-4565	Com	Galaxy	Needle Galaxy, C-38	16.2	24.3	9.6			12:36:21	+25°59'16"
M-64	Com	Galaxy	Black Eye Galaxy, Sleeping Beauty Galaxy, NGC4826, UGC8062,Black Eye Galaxy,S	10.3x5.0	22.2	9.3			12:56:44	+21°40'58"
NGC-4872	Com	Galaxy		1.0	22.3	13.7			12:59:34	+27°56'47"
NGC-4889	Com	Galaxy	C-35	3.0	22.4	11.4			13:00:08	+27°58'35"
M-53	Com	Globular	NGC5024	12.6	22.6	8.5			13:12:55	+18°10'07"
NGC-4038	Crv	Galaxy	Antennae Galaxy [1]	2.6	21.4	10.7			12:01:53	-18°52'07"
NGC-4039	Crv	Galaxy	Antennae Galaxy [2]	3.2	24.2	13.0			12:01:54	-18°53'09"
NGC-4244	CVn	Galaxy	C-26, Silver Needle Galaxy	16.2	24.9	10.2			12:17:30	+37°48'27"
M-106	CVn	Galaxy	NGC4258, UGC7353	17.4x6.6	22.9	9.1			12:18:58	+47°18'16"
NGC-4449	CVn	Galaxy		5.1	21.6	9.4			12:28:11	+44°05'38"
NGC-4627	CVn	Galaxy		2.7	23.1	12.3			12:42:00	+32°34'25"

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NGC-4631	CVn	Galaxy	Herring Galaxy (Nebula),Whale Galaxy	15.1	23.8	9.3			12:42:08	+32°32'29"
NGC-4656	CVn	Galaxy	Hockey Stick Galaxy, Crowbar Galaxy	13.8	24.7	10.4			12:43:58	+32°10'17"
La Superba	CVn	Carbon	SAO-044317, HIP-62223, La Superba, HR-4846, HD-110914, Y Canum Venaticorum			5.0			12:45:08	+45°26'25"
M-94	CVn	Galaxy	Croc's Eye Galaxy, NGC4736, UGC7996	12.3x10.8	22.8	8.9			12:50:53	+41°07'12"
Cor Caroli	CVn	Dbl	SAO-063256, HIP-63121, α CVn, 12 CVn, HR-4914, HD-112412, STF-1692			5.6	8.3	19.4	12:56:00	+38°18'53"
NGC-4914	CVn	Galaxy		3.6	23.4	12.0			13:00:43	+37°18'55"
IC-4182	CVn	Galaxy	PGC 45314	6.7	25.8	13.0			13:05:49	+37°36'21"
NGC-5005	CVn	Galaxy		5.4	22.1	9.8			13:10:56	+37°03'30"
NGC-5033	CVn	Galaxy		10.5	23.8	10.1			13:13:28	+36°35'38"
M-63	CVn	Galaxy	Sunflower Galaxy, NGC5055, UGC8334, PGC 46153	12.6x7.5	22.9	9.3			13:15:49	+42°01'46"
M-51	CVn	Galaxy	Whirlpool Galaxy, Question Mark Galaxy, NGC5194, UGC8493, Lord Rosse's Nel	10.8x6.6	22.2	8.9			13:29:52	+47°11'45"
M-3	CVn	Globular	NGC5272	16.2	21.7	7.0			13:42:11	+28°22'35"
Albireo	Cyg	Dbl	SAO-087301, HIP-95947, Beta Cygni, 6 Cyg, HR7417, HD183912			3.0	5.2	0.4	19:30:43	+27°57'35"
NGC-6826	Cyg	P Neb	Blinking Planetary, C15	2.3	20.4	10.0			19:44:48	+50°31'30"
NGC-6888	Cyg	Neb	Crescent Nebula, C-27, Sh 2-105	20.0					20:12:06	+38°21'17"
Omicron 1 Cygni	Cyg	Mult	SAO-049337, HIP-99675, 31 Cyg, HD192577, HR7735			3.8	4.8	337.5	20:13:38	+46°44'29"
M-29	Cyg	Open	Cooling Tower, NGC6913	7.0	21.9	9.0			20:23:57	+38°30'30"
NGC-6960	Cyg	Neb	Filamentary Nebula, Lace-work Nebula, Pickering's Triangular N.	70.0					20:45:58	+30°35'42"
NGC-6992	Cyg	Neb	Cirrus Nebula [2], C33, IC-1340, Eastern Veil Nebula	60.0					20:56:19	+31°44'36"
NGC-6996	Cyg	Open							20:56:30	+45°28'24"
NGC-7000	Cyg	Neb	Gulf of Mexico, North America Nebula	120.0					20:59:18	+44°31'00"
M-39	Cyg	Open	NGC7092	32.0	21.7	5.5			21:31:42	+48°25'00"
IC-5146	Cyg	Open	Cocoon Nebula, C-19, Sh 2-125, B168	12.0	21.2	7.2			21:53:29	+47°16'01"
NGC-6934	Del	Globular		5.9	21.4	8.9			20:34:11	+07°24'17"
Gamma Delphini	Del	Dbl	SAO-106475, HIP-102531, 12 Del, STF-2727, ADS-14279, HR7947, HD197963			4.3	5.1	11.9	20:46:42	+16°07'00"
NGC-7006	Del	Globular		2.8	21.5	10.6			21:01:29	+16°11'15"
NGC-4236	Dra	Galaxy	C3, PGC-39346, UGC-7306	18.6	24.7	9.7			12:16:43	+69°27'50"
M-102	Dra	Galaxy	Spindle Galaxy (duplicate of M101?), NGC5866, UGC9723	6.5x3.1	22.7	10.8			15:06:30	+55°45'47"
NGC-6503	Dra	Galaxy	PGC-60921, UGC-11012	6.2	22.8	10.2			17:49:27	+70°08'40"
NGC-6543	Dra	P Neb	Cat Eye Nebula, C6	5.8	21.4	9.0			17:58:33	+66°37'59"
Keid	Eri	Dbl	SAO-131063, HIP-19849, STF518, Keid, BD-07 00780, 40 Eri, HR1325, HD26965			4.4	9.3	82.7	04:15:16	-07°39'10"
NGC-2158	Gem	Open		5.0	20.7	8.6			06:07:25	+24°05'48"
M-35	Gem	Open	Shoe-Buckle Cluster, NGC-2168	28.0	21.4	5.5			06:09:00	+24°21'00"
NGC-2392	Gem	P Neb	Clown Face Nebula, C39, Eskimo Nebula, Lion Nebula	0.7	17.9	10.0			07:29:11	+20°54'42"
M-13	Her	Globular	Hercules Globular Cluster, Great Hercules Cluster, NGC6205	16.6	21.7	7.0			16:41:41	+36°27'35"
M-92	Her	Globular	NGC6341	11.2	21.4	7.5			17:17:07	+43°08'11"
M-48	Hya	Open	NGC2548	54.0	22.8	5.5			08:13:43	-05°45'00"
NGC-3242	Hya	P Neb	CBS Eye, Ghost of Jupiter, C59	20.8	24.2	9.0			10:24:46	-18°38'34"
U Hydrae	Hya	Carbon	SAO-1561110, HIP-52009, BD-12 03218, CD , CP , AG, HD92055, HR4163						10:37:32	-13°23'08"

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M-68	Hya	Globular	NGC4590	12.0	23.0	9.0			12:39:28	-26°44'32"
M-83	Hya	Galaxy	Southern Pinwheel Galaxy, NGC5236	13.1x12.2	22.1	8.0			13:37:00	-29°51'51"
NGC-7243	Lac	Open	C16	21.0	21.6	6.4			22:15:08	+49°53'54"
NGC-3185	Leo	Galaxy	Gamma Leonis Group [1]	2.3	22.6	12.2			10:17:39	+21°41'17"
NGC-3187	Leo	Galaxy	Gamma Leonis Group [2]	3.3	24.3	13.1			10:17:48	+21°52'24"
NGC-3190	Leo	Galaxy	Gamma Leonis Group [3]	4.6	22.9	11.0			10:18:06	+21°49'57"
NGC-3193	Leo	Galaxy	Gamma Leonis Group [4]	2.8	21.8	10.9			10:18:25	+21°53'38"
Algieba	Leo	Mult	SAO-081298, HIP-50583, γ Leo, 41 Leo, Gamma Leo, HD89484, HR4057, STF1424			2.6	3.8	4.5	10:19:58	+19°50'30"
NGC-3226	Leo	Galaxy		2.8	22.3	11.4			10:23:27	+19°53'54"
NGC-3227	Leo	Galaxy		5.6	23.2	10.8			10:23:31	+19°51'54"
M-95	Leo	Galaxy	NGC3351, UGC5850	7.3x4.4	23.0	10.6			10:43:58	+11°42'13"
M-96	Leo	Galaxy	NGC3368, UGC5882	7.8x5.2	22.7	10.1			10:46:46	+11°49'12"
M-105	Leo	Galaxy	NGC3379, UGC5902	5.3x4.8	22.6	10.5			10:47:50	+12°34'55"
NGC-3599	Leo	Galaxy		2.8	22.8	11.9			11:15:27	+18°06'36"
NGC-3605	Leo	Galaxy		1.7	22.8	13.0			11:16:47	+18°01'02"
NGC-3607	Leo	Galaxy		3.7	21.5	10.0			11:16:55	+18°03'06"
NGC-3608	Leo	Galaxy		3.0	22.0	11.0			11:16:59	+18°08'54"
M-65	Leo	Galaxy	Leo Triplet, NGC3623, UGC6328, Leo Triplet [1]	9.0x2.3	22.0	10.1			11:18:56	+13°05'31"
NGC-3626	Leo	Galaxy	C40, PGC-34684	3.1	22.0	10.9			11:20:04	+18°21'25"
M-66	Leo	Galaxy	Leo Triplet, NGC3627, UGC6346, Leo Triplet [2]	9.1x4.1	22.3	9.7			11:20:15	+12°59'26"
NGC-3628	Leo	Galaxy	Leo Triplet [3]	14.8	24.0	9.5			11:20:17	+13°35'19"
M-79	Lep	Globular	NGC1904	8.7	21.8	8.5			05:24:11	-24°31'29"
NGC-2419	Lyn	Globular	Intergalactic Wanderer/Tramp, C25	4.1	22.1	10.4			07:38:08	+38°52'54"
T Lyrae	Lyr	Carbon	SAO-067087, HIP-90883, GC25326			7.8			18:32:20	+36°59'57"
Epsilon Lyrae	Lyr	Mult	SAO-067310, HIP-91919, Double Double , ε Lyr, 4 Lyr, HR-7051, HD-173582, STF-2382			5.1	5.1	209.3	18:44:20	+39°40'12"
M-57	Lyr	P Neb	Ring Nebula, NGC6720	2.5	20.1	9.5			18:53:35	+33°01'44"
M-56	Lyr	Globular	NGC6779	7.1	22.4	9.5			19:16:36	+30°11'02"
Beta Monoceros	Mon	Mult	SAO-133317, HIP-30867, 11 Mon, STF919 HR 2358, HD 45727			5.7	6.2	2.5	06:28:48	-07°02'00"
NGC-2238	Mon	Open	Rosette Nebula [2], C49						06:30:40	+05°00'47"
NGC-2237	Mon	Neb	Rosette Nebula [1], C49						06:30:54	+05°03'00"
NGC-2239	Mon	Open	Rosette Nebula [3], C49	16.0					06:31:56	+04°56'35"
NGC-2244	Mon	Open	In Rosette Nebula, C50	24.0	20.3	4.8			06:31:56	+04°56'35"
NGC-2261	Mon	Neb	Hubble's Variable Nebula, C46	2.0					06:39:10	+08°44'40"
NGC-2264	Mon	Open	Christmas Tree Cluster, Cone Nebula (Conus N.), X-mas Tree Cluster	60.0	21.4	3.9			06:40:58	+09°53'42"
M-50	Mon	Open	Heart-shaped Cluster, NGC2323	16.0	21.6	7.0			07:02:42	-08°23'00"
NGC-2506	Mon	Open	C564	7.0	20.5	7.6			08:00:01	-10°46'12"
M-107	Oph	Globular	Crucifix Cluster, NGC-6171	10.0	23.6	10.0			16:32:32	-13°03'11"
M-12	Oph	Globular	Gumball Globular, NGC-6218	14.5	22.4	8.0			16:47:14	-01°56'52"
M-10	Oph	Globular	NGC6254	15.1	22.0	7.5			16:57:09	-04°05'56"

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M-62	Oph	Globular	Flickering Globular, NGC6266	14.1	22.4	8.0			17:01:13	-30°06'45"
M-19	Oph	Globular	NGC6273	13.5	22.8	8.5			17:02:38	-26°16'04"
M-9	Oph	Globular	NGC6333	9.3	22.5	9.0			17:19:12	-18°30'58"
M-14	Oph	Globular	NGC6402	11.7	23.5	9.5			17:37:36	-03°14'43"
IC-4665	Oph	Open	Collinder 349, Melotte 179	41.0	20.9	4.2			17:46:30	+05°39'00"
NGC-6572	Oph	P Neb	Blue Racquetball, Emerald Nebula, Green Nebula, Turquoise Orb	0.1	12.6	9.0			18:12:06	+06°51'13"
NGC-6633	Oph	Open	Cr 380, Mel 201	27.0	20.4	4.6			18:27:15	+06°30'30"
M-42	Ori	OC, EN	Great Orion Nebula, Orion A, NGC1976,Trapezium	66.0	21.7	4.0			05:35:16	-05°23'25"
NGC-1980	Ori	Neb	Hatsya,Nair Saif	14.0					05:35:25	-05°54'54"
M-43	Ori	D Neb	De Mairan's Nebula (Orion Nebula Extension), NGC1982	20.0	24.1	9.0			05:35:31	-05°16'03"
Struve 761	Ori	Dbl	STF761, BD-02 01323, WDS05386-0233			8.4	8.6	8.5	05:38:35	-02°34'16"
Struve 761	Ori	Dbl	STF761, BD-02 01324, WDS05386-0233			7.9	8.4	68.1	05:38:37	-02°33'13"
Struve 761	Ori	Dbl	STF761, WDS05386-0233			7.9	8.6	72.1	05:38:37	-02°33'13"
Struve 761	Ori	Dbl	STF761, WDS05386-0233			7.9	11.9	32.7	05:38:37	-02°33'13"
Sigma Orion	Ori	Dbl	SAO132406, HIP-26549, σ Ori, SACDBL1453			4.0	7.5	12.9	05:38:42	-02°36'00"
Sigma Orion	Ori	Dbl	SAO132406, HIP-26549, σ Ori, SACDBL1452			4.0	10.3	11.4	05:38:42	-02°36'00"
Sigma Orion	Ori	Dbl	SAO132406, HIP-26549, σ Ori, SACDBL1455			6.5	7.5	30.1	05:38:42	-02°36'00"
Sigma Orion	Ori	Dbl	SAO132406, HIP-26549, σ Ori, SACDBL1451			4.0	6.0	0.2	05:38:42	-02°36'00"
Sigma Orion	Ori	Dbl	SAO-132406, HIP-26549, σ Ori, SACDBL1454			4.0	6.5	42.6	05:38:42	-02°36'00"
M-78	Ori	D Neb	NGC2068	8.0	21.1	8.0			05:46:45	+00°04'48"
NGC-2169	Ori	Open	"37" Cluster,"LE" Cluster	7.0	18.8	5.9			06:08:24	+13°57'54"
NGC-2194	Ori	Open		10.0	22.1	8.5			06:13:45	+12°48'24"
NGC-7814	Peg	Galaxy	Little Sombrero, C-43, UGC8	6.3	23.1	10.5			00:03:15	+16°08'43"
NGC-14	Peg	Galaxy		3.0	23.0	12.0			00:08:46	+15°48'56"
M-15	Peg	Globular	Great Pegasus Cluster, NGC7078	12.3	21.6	7.5			21:29:58	+12°10'02"
NGC-7331	Peg	Galaxy	C30	10.7	23.3	9.5			22:37:04	+34°24'57"
NGC-7479	Peg	Galaxy	Propeller Galaxy, Superman Galaxy, C44	4.1	22.7	11.0			23:04:57	+12°19'20"
M-76	Per	P Neb	Little Dumbbell Nebula, Apple Core Nebula, NGC-650/651, The Barbell Nebula, The C	4.8	24.0	12.0			01:42:18	+51°34'15"
NGC-869	Per	Open	Chi Persei [2],Double Cluster [2],h Persei,Perseus Double Cluster [2], C14	30.0	20.0	4.0			02:19:00	+57°07'42"
NGC-884	Per	Open	Chi Persei [1]	30.0	20.0	4.0			02:22:18	+57°08'12"
M-34	Per	Open	Spiral Cluster, NGC1039	35.0	22.3	6.0			02:42:05	+42°45'42"
Abell426	Per	GalClus	Perseus I Galaxy Cluster	126.0	31.6	12.5			03:15:18	+41°20'00"
Mel-20	Per	Open	Alpha Persei Cluster, The Alpha Persei Association, Collinder 39	185.0	21.2	1.2			03:22:00	+49°00'00"
NGC-1499	Per	Neb	California Nebula, Sh2-220, NGC-1499	145.0					04:03:14	+36°22'00"
M-74	Psc	Galaxy	The Phantom, NGC628, UGC1149,Phantom, The	10.0x9.4	23.4	9.8			01:36:42	+15°47'01"
M-47	Pup	Open	NGC2422	30.0	20.5	4.5			07:36:35	-14°29'00"
M-46	Pup	Open	NGC2437	27.0	22.3	6.5			07:41:46	-14°48'36"
M-93	Pup	Open	NGC2447,Butterfly Cluster	22.0	21.8	6.5			07:44:30	-23°51'24"
NGC-2451	Pup	Open	Cr 161	45.0	19.7	2.8			07:45:15	-37°58'00"

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ID	Const	Type	Name	Size '	S.B.	Mag-1	Mag-2	Sep "	R.A.	Declination
NGC-2477	Pup	Open	Termite Hole Cluster, C71	27.0	21.6	5.8			07:52:10	-38°31'48"
NGC-2539	Pup	Open		22.0	21.8	6.5			08:10:37	-12°49'06"
NGC-253	Scl	Galaxy	Silver Coin Galaxy, Silver Dollar Galaxy, Sculptor Galaxy, NGC-253, C65	25.1	22.7	7.1			00:47:33	-25°17'18"
NGC-288	Scl	Globular	Melotte 3	13.8	22.4	8.1			00:52:45	-26°35'01"
M-80	Sco	Globular	NGC6093	8.9	21.9	8.5			16:17:03	-22°58'32"
M-4	Sco	Globular	Cat's Eye, Spider Globular Cluster, NGC-6121	26.3	23.2	7.5			16:23:35	-26°31'35"
M-6	Sco	Open	Butterfly Cluster, NGC6405	15.0	19.0	4.5			17:40:20	-32°15'12"
M-7	Sco	Open	Ptolemy Cluster, Scorpion's Tail, NGC-6475	80.0	21.6	3.5			17:53:51	-34°47'36"
M-26	Sct	Open	NGC6694, Cr 389	15.0	24.0	9.5			18:45:18	-09°23'00"
M-11	Sct	Open	Wild Duck Cluster, Scutum Salt-and-Pepper Cluster, NGC-6705, Mel 213, Cr 391	14.0	21.4	7.0			18:51:05	-06°16'12"
M-5	Ser	Globular	NGC5904, GCl 34	17.4	21.8	7.0			15:18:33	+02°04'57"
M-16	Ser	Open+D Neb	Eagle Nebula, Star Queen Nebula, The Ghost, NGC6611, Sh2-49, Gum 873, Cr 375	35.0	22.8	6.5			18:18:48	-13°48'24"
IC-4756	Ser	Open	Graff's Cluster, Cr 386, Mel 210	52.0	22.2	5.0			18:38:54	+05°27'00"
NGC-3115	Sex	Galaxy	The Southern Spindel Galaxy, Spindle Galaxy, C53	8.3	22.4	9.2			10:05:14	-07°43'08"
M-71	Sge	Globular	Angelfish Cluster, NGC-6838	7.2	21.4	8.5			19:53:46	+18°46'42"
M-23	Sgr	Open	NGC6494, Cr 356	27.0	21.8	6.0			17:57:04	-18°59'06"
M-20	Sgr	Open+D Neb	Trifid Nebula, The Clover, NGC6514, Sh2-30, Gum 76	29.0	20.9	5.0			18:02:42	-22°58'18"
NGC-6522	Sgr	Globular	GCl 82	5.6	21.0	8.6			18:03:35	-30°02'06"
M-8	Sgr	Open+D Neb	Lagoon Nebula, Dragon Nebula, NGC-6523, Sh2-25, Gum 72	90.0	23.4	5.0			18:03:41	-24°22'48"
M-21	Sgr	Open	Webb's Cross, NGC-6531, Cr 363	13.0	21.2	7.0			18:04:13	-22°29'24"
NGC-6528	Sgr	Globular	GCl 84, ESO 456-48	3.7	21.0	9.5			18:04:50	-30°03'21"
M-24	Sgr	Open	Small Sagittarius Star Cloud, NGC6603,Delle Caustiche, IC 4715	80.0x35.0	21.7	4.5			18:18:26	-18°24'24"
M-18	Sgr	Open	Black Swan, NGC6613, Cr 376, OCl 40	9.0	21.4	8.0			18:19:58	-17°06'07"
M-17	Sgr	Open+D Neb	Omega Nebula, Swan Nebula, Horseshoe Nebula, NGC6618,Checkmark Nebula	46.0	23.9	7.0			18:20:47	-16°10'18"
M-28	Sgr	Globular	NGC6626	11.2	22.4	8.5			18:24:33	-24°52'07"
M-69	Sgr	Globular	NGC-6637, NGC 5534, GCl 96	7.1	21.9	9.0			18:31:23	-32°20'51"
M-25	Sgr	Open	IC-4725, IC 4725, Cr 382, Mel 204	40.0	23.1	6.5			18:31:42	-19°07'00"
M-22	Sgr	Globular	Great Sagittarius Cluster, Crackerjack Cluster, NGC6656	24.0	22.0	6.5			18:36:24	-23°54'17"
M-70	Sgr	Globular	NGC-6681, GCl 101	7.8	22.1	9.0			18:43:12	-32°17'27"
M-54	Sgr	Globular	NGC-6715, GCl 104	9.1	21.9	8.5			18:55:03	-30°28'47"
M-55	Sgr	Globular	Specter Cluster, NGC-6809, GCl 113	19.0	22.0	7.0			19:40:00	-30°57'44"
NGC-6822	Sgr	Galaxy	Barnard's Galaxy, C57, IC 4895, PGC 63616	10.2	22.7	9.0			19:44:57	-14°48'10"
M-75	Sgr	Globular	NGC-6864, GCl 116	6.0	22.0	9.5			20:06:05	-21°55'19"
M-45	Tau	Open	Pleiades, Seven Sisters, Subaru,Pleiades,Seven Sisters,Subaru	120.0	20.6	1.6			03:47:30	+24°07'00"
NGC-1514	Tau	P Neb	Crystal Ball Nebula	1.9	20.0	10.0			04:09:17	+30°46'33"
Mel-25	Tau	Open	The Hyades, C41, Mel25, Collinder 50	330.0	21.7	0.5			04:27:00	+16°00'00"
M-1	Tau	SNR	Crab Nebula, Taurus A, NGC1952,CM Tauri,Crab Nebula,Crab Pulsar,Taurus A	6.0x4.0	20.5	8.4			05:34:32	+22°00'52"
M-33	Tri	Galaxy	Triangulum Galaxy, Pinwheel Galaxy, NGC598, UGC1117,Pinwheel Galaxy,Triangulu	68.7x41.6	23.5	6.2			01:33:51	+30°39'37"
M-81	UMa	Galaxy	Bode's Galaxy, NGC-3031, UGC 5318, PGC 28630	24.9x11.5	22.6	7.8			09:55:33	+69°03'56"

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M-82	UMa	Galaxy	Cigar Galaxy, Ursa Major A, NGC-3034, UGC 5322, PGC 28655	10.5x5.1	22.2	9.2			09:55:53	+69°40'50"
M-108	UMa	Galaxy	Surfboard Galaxy, NGC3556, UGC6225, PGC 34030	8.6x2.4	22.5	10.6			11:11:31	+55°40'26"
M-97	UMa	P Neb	Owl Nebula, NGC3587	3.2	23.2	12.0			11:14:48	+55°01'08"
M-109	UMa	Galaxy	Vacuum Cleaner Galaxy, NGC3992, UGC6937, PGC 37617	7.5x4.4	23.0	10.6			11:57:36	+53°22'29"
M-40	UMa	Dbl+Asterism	Winnecke 4, Winnecke 4 (WNC4), WNC 4 (Winnecke 4)	1.0	18.2	9.6	10.1	50.0	12:22:12	+58°05'00"
Mizar	UMa	Star+Dbl	SAO-028737, HIP-65378, 79 UMa, Mizar and Alcor, STF-1744, HR-5055, ADS-88	0.0		2.2	3.8	14.4	13:23:55	+54°55'31"
M-101	UMa	Galaxy	Pinwheel Galaxy, NGC-5457, UGC8981, PGC 50063, Arp 26	28.5x28.3	24.1	8.2			14:03:13	+54°20'56"
Polaris	UMi	Dbl	SAO-000308, HIP-11767, 1 UMi, North Star, Loadstar, HIP 11767, STF 93 , SACDBL978, ADS147	999.0	2.1	9.1	18.4		02:30:54	+89°15'00"
M-61	Vir	Galaxy	Oriani's Galaxy, Swelling Spiral, NGC-4303, UGC7420	6.5x5.9	22.7	10.1			12:21:55	+04°28'23"
M-84	Vir	Galaxy	NGC4374, UGC7494, Markarian's Chain	6.7x6.0	22.8	10.2			12:25:04	+12°53'12"
M-86	Vir	Galaxy	NGC4406, UGC7532	9.8x6.3	23.0	9.9			12:26:12	+12°56'46"
NGC-4435	Vir	Galaxy	Eyes [1]	3.0	21.9	10.9			12:27:40	+13°04'45"
NGC-4438	Vir	Galaxy	Eyes [2]	9.3	23.6	10.1			12:27:46	+13°00'32"
M-49	Vir	Galaxy	NGC4472, UGC7629	9.8x8.2	22.7	9.3			12:29:47	+08°00'01"
M-87	Vir	Galaxy	Smoking Gun, Virgo A, NGC4486, UGC7654, Smoking Gun, Virgo A	8.7x6.6	22.6	9.6			12:30:49	+12°23'27"
M-89	Vir	Galaxy	NGC4552, UGC7760	5.3x4.8	23.0	10.9			12:35:40	+12°33'23"
NGC-4567	Vir	Galaxy	Siamese Twins [1]	3.0	22.3	11.3			12:36:33	+11°15'28"
NGC-4568	Vir	Galaxy	Siamese Twins [2]	4.6	22.7	10.8			12:36:34	+11°14'18"
M-90	Vir	Galaxy	NGC4569, UGC7786	9.9x4.4	22.9	10.2			12:36:50	+13°09'48"
M-58	Vir	Galaxy	NGC4579, UGC7796	6.0x4.8	22.7	10.4			12:37:44	+11°49'06"
M-104	Vir	Galaxy	Sombrero Galaxy, NGC4594	8.6x4.2	21.7	9.2			12:39:59	-11°37'23"
Porrina	Vir	Mult	SAO-138917, HIP-61941, γ Vir, 29 Vir, Gamma Virginis, HD110379, STF1670			3.7	3.8	4.1	12:41:40	-01°26'58"
M-59	Vir	Galaxy	NGC4621, UGC7858	5.3x4.0	22.6	10.7			12:42:02	+11°38'48"
M-60	Vir	Galaxy	NGC4649, UGC7898	7.6x6.2	22.6	9.8			12:43:40	+11°33'08"
Collinder 399	Vul	Open	Cr399, Lund890, OCL113, 4-5 Vulpeculae Cluster, Al Sufi's Cluster, Brocchi's Cluster	60.0	21.1	3.6			19:25:24	+20°11'00"
M-27	Vul	P Neb	Dumbbell Nebula, Apple Core, Diablo, Double-headed Shot Nebula, NGC6853, Arp 152	15.2	22.0	7.5			19:59:36	+22°43'15"
NGC-6882	Vul	Open	20 Vulpeculae Cluster, C37	18.0	23.0	8.1			20:11:58	+26°29'00"
NGC-6885	Vul	Open	20 Vulpeculae Cluster	7.0	18.9	6.0			20:11:58	+26°29'00"