

Binocular Observer's Checklist

Observer:

√ ID	RA	DEC	CON	TYPE	MAG	SIZE	NAME	NOTES
ID	RA	DEC	CON	TYPE	MAG	SIZE	NAME	NOTES
√ 0001	04h27m00s	16°00'00"	Tau	OCL	0.5	330	Mel 25	The Hyades 7x35: Easy 20x80: Easy
√ 0002	03h22m00s	49°00'00"	Per	OCL	1.2	185	Mel 20	Alpha Persei Association 7x35: Easy 20x80: Easy
√ 0003	03h47m30s	24°07'00"	Tau	OCL	1.6	120	M45	Pleiades, Seven Sisters 7x35: Easy 20x80: Easy
√ 0004	12h25m00s	26°00'00"	Com	OCL	1.8	275	Mel 111	Coma Star Cluster 7x35: Easy 20x80: Easy
√ 0005	17h53m51s	-34°47'36"	Sco	OCL	3.5	80	M7	Scorpion's Tail 7x35: Easy 20x80: Easy
√ 0006	19h25m24s	20°11'	Vul	OCL	3.6	60	CR399	Coathanger 7x35: Easy 20x80: Easy
√ 0007	06h40m58s	09°53'42"	Man	OCL	3.9	20	NGC2264	7x35: Easy 20x80: Easy
√ 0008	06h28m01s	-04°50'48"	Man	OCL	3.9	29	NGC2232	7x35: Easy 20x80: Easy
√ 0009	05h35m16s	-05°23'25"	Ori	OCL + DNE	4	66	M42	Great Orion Nebula 7x35: Easy 20x80: Easy
√ 0010	08h40m24s	19°39'60"	Cnc	OCL	4	95	M44	Beehive Cluster 7x35: Easy 20x80: Easy
√ 0011	03h58m00s	63°06'00"	Cam	OCL	4.0	180	Kemble 1	3 degree chain of stars 7x35: Easy 20x80: Easy
√ 0012	05h35m09s	-04°25'54"	Ori	OCL	4.2	25	NGC1981	7x35: Easy 20x80: Easy
√ 0013	17h46m30s	05°39'00"	Oph	OCL	4.2	70	IC4665	7x35: Easy 20x80: Easy
√ 0014	00h42m44s	41°16'08"	And	GXY	4.3	189	M31	Andromeda Galaxy 7x35: Easy 20x80: Easy
√ 0015	02h15m00s	59°16'00"	Cas	OCL	4.4	60	Stock 2	7x35: Easy 20x80: Easy
√ 0016	17h40m20s	-32°15'12"	Sco	OCL	4.5	15	M6	Butterfly Cluster 7x35: Easy 20x80: Easy
√ 0017	07h36m35s	-14°29'00"	Pup	OCL	4.5	30	M47	7x35: Easy 20x80: Easy
√ 0018	18h18m26s	-18°24'24"	Sgr	OCL	4.5	80	M24	Sagittarius Star Cloud 7x35: Easy

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√ 0019	18h27m15s	06°30'30"	Oph	OCL	4.6	20	NGC6633	7x35: Easy 20x80: Easy
√ 0020	18h38m54s	05°27'00"	Ser	OCL	4.6	40	IC4756	7x35: Easy 20x80: Easy
√ 0021	06h31m56s	04°56'35"	Man	OCL	4.8	23	NGC2244	7x35: Easy 20x80: Easy
√ 0022	18h02m42s	-22°58'18"	Sgr	OCL + DNE	5	29	M20	Trifid Nebula 7x35: Not Viewable 20x80: Challenge
√ 0023	06h46m01s	-20°45'24"	CMa	OCL	5	38	M41	Little Beehive 7x35: Easy 20x80: Easy
√ 0024	18h03m41s	-24°22'48"	Sgr	OCL + DNE	5	90	M8	Lagoon Nebula 7x35: Easy 20x80: Easy
√ 0025	02h19m00s	57°07'42"	Per	OCL	5.3	29	NGC869	7x35: 20x80:
√ 0026	06h48m17s	41°04'42"	Aur	OCL	5.4	14	NGC2281	7x35: 20x80:
√ 0027	06h09m00s	24°21'00"	Gem	OCL	5.5	28	M35	7x35: Easy 20x80: Easy
√ 0028	21h31m42s	48°25'00"	Cyg	OCL	5.5	32	NGC7092	7x35: Easy 20x80: Easy
√ 0029	08h13m43s	-05°45'00"	Hya	OCL	5.5	54	M48	7x35: Easy 20x80: Easy
√ 0030	01h48m24s	71°57'	Cas	OCL	5.7	36	CR463	7x35: 20x80:
√ 0031	01h57m41s	37°47'06"	And	OCL	5.7	50	NGC752	7x35: 20x80:
√ 0032	06h08m24s	13°57'54"	Ori	OCL	5.9	6	NGC2169	7x35: 20x80:
√ 0033	02h37m18s	55°59'00"	Per	OCL	5.9	20	TR 2	7x35: 20x80:
√ 0034	06h51m45s	00°27'36"	Man	OCL	6.0	12	NGC2301	7x35: 20x80:
√ 0035	05h52m18s	32°33'12"	Aur	OCL	6	24	M37	Salt-and-pepper Cluster 7x35: Easy 20x80: Easy
√ 0036	17h57m04s	-18°59'06"	Sgr	OCL	6	27	M23	7x35: Easy 20x80: Easy
√ 0037	02h42m05s	42°45'42"	Per	OCL	6	35	M34	Spiral Cluster 7x35: Easy 20x80: Easy
√ 0038	21h53m40s	62°36'12"	Cep	OCL	6.1	7	NGC7160	7x35:

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√ 0039	02h22m18s	57°08'12"	Per	OCL	6.1	29	NGC884	7x35: 20x80:
√ 0040	05h03m50s	23°46'12"	Tau	OCL	6.1	42	NGC1746	7x35: 20x80:
√ 0041	03h16m00s	60°02'00"	Cam	OCL	6.2	15	Stock 23	7x35: 20x80:
√ 0042	01h33m51s	30°39'37"	Tri	GXY	6.2	69	M33	Triangulum Galaxy 7x35: Tougher 20x80: Tougher
√ 0043	20h34m26s	28°17'00"	Vul	OCL	6.3	31	NGC6940	7x35: 20x80:
√ 0044	01h19m35s	58°17'12"	Cas	OCL	6.4	13	NGC457	7x35: 20x80:
√ 0045	04h48m27s	10°56'12"	Ori	OCL	6.4	20	NGC1662	7x35: 20x80:
√ 0046	22h15m08s	49°53'54"	Lac	OCL	6.4	21	NGC7243	7x35: 20x80:
√ 0047	04h15m23s	51°12'54"	Per	OCL	6.4	23	NGC1528	7x35: 20x80:
√ 0048	04h45m55s	19°06'54"	Tau	OCL	6.4	45	NGC1647	7x35: 20x80:
√ 0049	05h36m18s	34°08'24"	Aur	OCL	6.5	12	M36	Pinwheel Cluster 7x35: Easy 20x80: Easy
√ 0050	00h30m00s	60°13'06"	Cas	OCL	6.5	21	NGC129	7x35: 20x80:
√ 0051	02h32m42s	61°27'00"	Cas	OCL	6.5	21	Mel 15	7x35: 20x80:
√ 0052	08h10m37s	-12°49'06"	Pup	OCL	6.5	21	NGC2539	7x35: 20x80:
√ 0053	07h44m30s	-23°51'24"	Pup	OCL	6.5	22	M93	7x35: Easy 20x80: Easy
√ 0054	08h04m58s	-28°08'48"	Pup	OCL	6.5	22	NGC2527	7x35: 20x80:
√ 0055	18h36m24s	-23°54'17"	Sgr	GCL	6.5	24	M22	Sagittarius Cluster 7x35: Easy 20x80: Easy
√ 0056	07h41m46s	-14°48'36"	Pup	OCL	6.5	27	M46	7x35: Easy 20x80: Easy
√ 0057	18h18m48s	-13°48'24"	Ser	OCL + DNE	6.5	35	M16	Eagle Nebula 7x35: Easy 20x80: Easy
√ 0058	18h31m42s	-19°07'00"	Sgr	OCL	6.5	40	M25	7x35: Easy 20x80: Easy

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√ 0059	07h08m06s	-10°37'00"	Man	OCL	6.7	6	NGC2343	7x35: 20x80:
√ 0060	18h51m18s	10°19'06"	Aql	OCL	6.7	13	NGC6709	7x35: 20x80:
√ 0061	03h31m38s	37°22'36"	Per	OCL	6.7	14	NGC1342	7x35: 20x80:
√ 0062	23h57m24s	56°42'30"	Cas	OCL	6.7	15	NGC7789	7x35: 20x80:
√ 0063	01h33m23s	60°39'00"	Cas	OCL	7	6	M103	7x35: Easy 20x80: Easy
√ 0064	21h24m21s	36°29'12"	Cyg	OCL	7.0	7	NGC7063	7x35: 20x80:
√ 0065	08h18m56s	-29°45'00"	Pup	OCL	7.0	13	NGC2571	7x35: 20x80:
√ 0066	18h51m05s	-06°16'12"	Sct	OCL	7	14	M11	Wild Duck Cluster 7x35: Easy 20x80: Easy
√ 0067	07h02m42s	-08°22'60"	Mon	OCL	7	16	M50	Heart-shaped Cluster 7x35: Easy 20x80: Easy
√ 0068	13h42m11s	28°22'35"	CVn	GCL	7	16	M3	7x35: Easy 20x80: Easy
√ 0069	05h10m42s	16°31'18"	Tau	OCL	7.0	17	NGC1807	7x35: 20x80:
√ 0070	15h18m33s	02°04'57"	Ser	GCL	7	17	M5	7x35: Easy 20x80: Easy
√ 0071	16h41m41s	36°27'35"	Her	GCL	7	17	M13	Hercules Cluster 7x35: Easy 20x80: Easy
√ 0072	19h39m60s	-30°57'44"	Sgr	GCL	7	19	NGC6809	7x35: Easy 20x80: Easy
√ 0073	05h28m40s	35°50'54"	Aur	OCL	7	21	M38	Starfish Cluster 7x35: Easy 20x80: Easy
√ 0074	03h11m48s	63°15'00"	Cas	OCL	7.0	23	Tr 3	7x35: 20x80:
√ 0075	04h31m53s	43°49'00"	Per	OCL	7.0	37	NGC1582	7x35: 20x80:
√ 0076	18h20m47s	-16°10'18"	Sgr	OCL + DNE	7	46	M17	Omega Nebula 7x35: Easy 20x80: Easy
√ 0077	02h29m36s	60°39'00"	Cas	OCL	7.1	5	Mark 6	7x35: 20x80:
√ 0078	19h43m09s	23°18'00"	Vul	OCL	7.1	12	NGC6823	7x35: 20x80:

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√ 0079	01h46m09s	61°14'06"	Cas	OCL	7.1	16	NGC663	7x35: 20x80:
√ 0080	07h17m43s	-15°38'30"	CMa	OCL	7.2	12	NGC2360	7x35: 20x80:
√ 0081	19h41m18s	40°11'12"	Cyg	OCL	7.3	5	NGC6819	7x35: 20x80:
√ 0082	06h34m38s	08°22'00"	Man	OCL	7.3	10	NGC2251	7x35: 20x80:
√ 0083	20h23m12s	40°46'42"	Cyg	OCL	7.4	7	NGC6910	7x35: 20x80:
√ 0084	18h54m34s	-19°54'06"	Sgr	OCL	7.5	6	NGC6716	7x35: 20x80:
√ 0085	05h22m45s	33°24'42"	Aur	OCL	7.5	11	NGC1893	7x35: 20x80:
√ 0086	17h17m07s	43°08'11"	Her	GCL	7.5	11	M92	7x35: Easy 20x80: Easy
√ 0087	21h29m58s	12°10'02"	Peg	GCL	7.5	12	M15	Pegasus Cluster 7x35: Easy 20x80: Easy
√ 0088	21h33m27s	00°49'23"	Aqr	GCL	7.5	13	NGC7089	7x35: Easy 20x80: Easy
√ 0089	16h57m09s	-04°05'56"	Oph	GCL	7.5	15	M10	7x35: Easy 20x80: Easy
√ 0090	19h59m36s	22°43'15"	Vul	PNE	7.5	15	M27	Dumbbell Nebula 7x35: Easy 20x80: Easy
√ 0091	16h23m35s	-26°31'35"	Sco	GCL	7.5	26	M4	Cat's Eye 7x35: Easy 20x80: Easy
√ 0092	08h51m18s	11°48'00"	Cnc	OCL	7.5	30	M67	King Cobra 7x35: Easy 20x80: Easy
√ 0093	18h03m24s	-27°53'18"	Sgr	OCL	7.6	6	NGC6520	7x35: 20x80:
√ 0094	22h12m25s	57°16'16"	Cep	OCL	7.7	4	NGC7235	7x35: 20x80:
√ 0095	05h12m15s	16°41'24"	Tau	OCL	7.7	15	NGC1817	7x35: 20x80:
√ 0096	22h05m07s	46°29'00"	Lac	OCL	7.7	25	NGC7209	7x35: 20x80:
√ 0097	09h55m33s	69°03'56"	UMa	GXY	7.8	25	M81	Bode's Galaxy 7x35: Tougher 20x80: Easy
√ 0098	05h46m45s	00°04'48"	Ori	DNE	8	8	M78	7x35: Tougher 20x80: Easy

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√ 0099	18h19m58s	-17°06'07"	Sgr	OCL	8	9	M18	Black Swan 7x35: Easy 20x80: Easy
√ 0100	13h37m00s	-29°51'51"	Hya	GXY	8	13	M83	Southern Pinwheel 7x35: Tougher 20x80: Tougher
√ 0101	23h24m48s	61°35'36"	Cas	OCL	8	13	The Scorpion	7x35: Easy 20x80: Easy
√ 0102	17h01m13s	-30°06'45"	Oph	GCL	8	14	M62	Flickering Globular 7x35: Tougher 20x80: Easy
√ 0103	16h47m14s	-01°56'52"	Oph	GCL	8	15	M12	Gumball Globular 7x35: Easy 20x80: Easy
√ 0104	00h47m33s	-25°17'18"	Scl	GXY	8.0	25	NGC253	7x35: 20x80:
√ 0105	05h26m05s	35°19'30"	Aur	OCL	8.2	6	NGC1907	7x35: 20x80:
√ 0106	14h03m13s	54°20'56"	UMa	GXY	8.2	29	M101	Pinwheel Galaxy 7x35: Challenge 20x80: Tougher
√ 0107	05h34m32s	22°00'52"	Tau	PNE	8.4	6	M1	Crab Nebula 7x35: Challenge 20x80: Tougher
√ 0108	07h36m51s	65°36'07"	Cam	GXY	8.4	18	NGC2403	7x35: 20x80:
√ 0109	19h53m46s	18°46'42"	Sge	GCL	8.5	7	NGC6838	7x35: Challenge 20x80: Easy
√ 0110	05h24m11s	-24°31'29"	Lep	GCL	8.5	9	M79	7x35: Tougher 20x80: Easy
√ 0111	16h17m03s	-22°58'32"	Sco	GCL	8.5	9	M80	7x35: Tougher 20x80: Easy
√ 0112	18h55m03s	-30°28'47"	Sgr	GCL	8.5	9	NGC6715	7x35: Challenge 20x80: Tougher
√ 0113	18h24m33s	-24°52'07"	Sgr	GCL	8.5	11	M28	7x35: Tougher 20x80: Easy
√ 0114	21h40m22s	-23°10'45"	Cap	GCL	8.5	11	NGC7099	7x35: Tougher 20x80: Easy
√ 0115	13h12m55s	18°10'07"	Com	GCL	8.5	13	M53	7x35: Tougher 20x80: Easy
√ 0116	17h02m38s	-26°16'04"	Oph	GCL	8.5	14	M19	7x35: Tougher 20x80: Easy
√ 0117	12h22m12s	58°04'60"	UMa	DST + AST	8.7	1	M40	Winnecke 4 7x35: Tougher 20x80: Easy
√ 0118	20h34m11s	07°24'17"	Del	GICl	8.7	6	NGC6934	7x35:

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√ 0119	13h29m52s	47°11'45"	CVn	GXY	8.9	11	M51	Whirlpool Galaxy 7x35: Challenge 20x80: Tougher
√ 0120	12h50m53s	41°07'12"	CVn	GXY	8.9	12	M94	Croc's Eye Galaxy 7x35: Easy 20x80: Easy
√ 0121	00h40m22s	41°41'07"	And	GXY	8.9	20	M110	Satellite Of M31 7x35: Not Viewable 20x80: Challenge
√ 0122	18h31m23s	-32°20'51"	Sgr	GCL	9	7	M69	7x35: Not Viewable 20x80: Challenge
√ 0123	20h23m57s	38°30'30"	Cyg	OCL	9	7	M29	Cooling Tower 7x35: Easy 20x80: Easy
√ 0124	18h43m12s	-32°17'27"	Sgr	GCL	9	8	NGC6681	7x35: Not Viewable 20x80: Challenge
√ 0125	17h19m12s	-18°30'58"	Oph	GCL	9	9	NGC6333	7x35: Challenge 20x80: Tougher
√ 0126	12h39m28s	-26°44'32"	Hya	GCL	9	12	M68	7x35: Challenge 20x80: Tougher
√ 0127	00h42m42s	40°51'54"	And	GXY	9.1	9	M32	Satellite Of M31 7x35: Challenge 20x80: Easy
√ 0128	12h18m58s	47°18'16"	CVn	GXY	9.1	17	M106	7x35: Challenge 20x80: Tougher
√ 0129	12h39m59s	-11°37'23"	Vir	GXY	9.2	9	M104	Sombrero Galaxy 7x35: Challenge 20x80: Tougher
√ 0130	09h55m53s	69°40'50"	UMa	GXY	9.2	11	M82	Cigar Galaxy 7x35: Tougher 20x80: Easy
√ 0131	12h29m47s	08°00'01"	Vir	GXY	9.3	10	M49	7x35: Tougher 20x80: Tougher
√ 0132	12h56m44s	21°40'58"	Com	GXY	9.3	10	M64	Black Eye Galaxy 7x35: Tougher 20x80: Tougher
√ 0133	13h15m49s	42°01'46"	CVn	GXY	9.3	13	M63	Sunflower Galaxy 7x35: Tougher 20x80: Tougher
√ 0134	20h06m05s	-21°55'19"	Sgr	GCL	9.5	6	NGC6864	7x35: Challenge 20x80: Tougher
√ 0135	19h16m36s	30°11'02"	Lyr	GCL	9.5	7	NGC6779	7x35: Challenge 20x80: Tougher
√ 0136	17h37m36s	-03°14'43"	Oph	GCL	9.5	12	M14	7x35: Tougher 20x80: Easy

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√ 0137	18h45m18s	-09°22'60"	Sct	OCL	9.5	15	NGC6694	7x35: Challenge 20x80: Easy
√ 0138	12h30m49s	12°23'27"	Vir	GXY	9.6	9	M87	Smoking Gun 7x35: Not Viewable 20x80: Tougher
√ 0139	02h42m41s	00°00'48"	Cet	GXY	9.7	7	M77	Cetus A 7x35: Not Viewable 20x80: Tougher
√ 0140	11h20m15s	12°59'26"	Leo	GXY	9.7	9	M66	Leo Triplet 7x35: Challenge 20x80: Tougher
√ 0141	12h43m40s	11°33'08"	Vir	GXY	9.8	8	M60	7x35: Not Viewable 20x80: Challenge
√ 0142	12h26m12s	12°56'46"	Vir	GXY	9.9	10	M86	7x35: Not Viewable 20x80: Challenge
√ 0143	20h53m28s	-12°32'14"	Aqr	GCL	10	6	NGC6981	7x35: Not Viewable 20x80: Challenge
√ 0144	12h25m24s	18°11'27"	Com	GXY	10	7	M85	7x35: Not Viewable 20x80: Challenge
√ 0145	16h32m32s	-13°03'11"	Oph	GCL	10	10	M107	7x35: Not Viewable 20x80: Challenge
√ 0146	12h21m55s	04°28'23"	Vir	GXY	10.1	7	M61	Swelling Spiral 7x35: Not Viewable 20x80: Challenge
√ 0147	10h46m46s	11°49'12"	Leo	GXY	10.1	8	M96	7x35: Not Viewable 20x80: Challenge
√ 0148	12h22m55s	15°49'21"	Com	GXY	10.1	8	M100	7x35: Not Viewable 20x80: Challenge
√ 0149	11h18m56s	13°05'31"	Leo	GXY	10.1	9	M65	Leo Triplet 7x35: Challenge 20x80: Tougher
√ 0150	12h25m04s	12°53'12"	Vir	GXY	10.2	7	M84	7x35: Not Viewable 20x80: Challenge
√ 0151	12h31m59s	14°25'12"	Com	GXY	10.2	7	M88	7x35: Not Viewable 20x80: Challenge
√ 0152	12h36m50s	13°09'48"	Vir	GXY	10.2	10	M90	7x35: Not Viewable 20x80: Challenge
√ 0153	12h18m50s	14°25'01"	Com	GXY	10.4	5	M99	Virgo Cluster 7x35: Not Viewable 20x80: Challenge
√ 0154	12h37m44s	11°49'06"	Vir	GXY	10.4	6	M58	7x35: Not Viewable 20x80: Challenge
√ 0155	10h47m50s	12°34'55"	Leo	GXY	10.5	5	M105	7x35: Not Viewable 20x80: Challenge
√ 0156	10h43m58s	11°42'13"	Leo	GXY	10.6	7	M95	7x35: Not Viewable 20x80: Challenge

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√ 0157	11h57m36s	53°22'29"	UMa	GXY	10.6	8	M109	7x35: Not Viewable 20x80: Challenge
√ 0158	11h11m31s	55°40'26"	UMa	GXY	10.6	9	M108	7x35: Not Viewable 20x80: Challenge
√ 0159	12h42m02s	11°38'48"	Vir	GXY	10.7	5	M59	7x35: Not Viewable 20x80: Challenge
√ 0160	15h06m30s	55°45'47"	Dra	GXY	10.8	7	M102	Spindle Galaxy 7x35: Not Viewable 20x80: Tougher
√ 0161	12h35m40s	12°33'23"	Vir	GXY	10.9	5	M89	7x35: Not Viewable 20x80: Challenge
√ 0162	11h14m48s	55°01'08"	UMa	PNE	12	3	M97	Owl Nebula 7x35: Challenge 20x80: Tougher