

## Deep Sky Object List (1/5)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 3549	GALXY	UMA	11 10.9	+53 23	12.1	3.1 m	1 m	38	Sc	cB,cL,cE 160	26
M108			*	x				NGC 3556	GALXY	UMA	11 11.5	+55 40	10	8.6 m	2.4 m	80	SBc	cB,vL,vmE 79,pBM	26
					x			NGC 3583	GALXY	UMA	11 14.2	+48 19	11.1	2.5 m	1.5 m	125	SBb	pB,pL,R,vgmbM	26
M 97			*					NGC 3587	PLNNB	UMA	11 14.8	+55 01	11	202 s	196 s		3a	!! vB,vL,R,vvg,vsbM	26
								NGC 3595	GALXY	UMA	11 15.4	+47 27	12.1	1.6 m	0.7 m	176	E-SO	vF,vS,vIE,stellar,cB* n	26
								NGC 3600	GALXY	UMA	11 15.9	+41 35	11.7	4.1 m	0.8 m	3	Sa	pF,S,IE 0,vgbM	26
			x	x				NGC 3610	GALXY	UMA	11 18.4	+58 47	10.8	2.5 m	2.5 m		Elliptical	vB,pS,IE 90,vsmbMSN	26
								NGC 3614	GALXY	UMA	11 18.4	+45 45	11.6	4.8 m	2.9 m	80	Sc	F,pL,IE 90,glbM,r	26
			x	x				NGC 3613	GALXY	UMA	11 18.6	+58 00	10.9	3.6 m	2 m	102	Elliptical	vB,cL,mE 305,smbMN	26
				x				NGC 3619	GALXY	UMA	11 19.4	+57 45	11.5	3.5 m	2.4 m	25	Sa	cB,cL,R,vgmbM	26
			x	x			x	NGC 3631	GALXY	UMA	11 21.0	+53 10	10.4	5 m	4.8 m		Sc	pB,L,R,svmbMrN	26
					x			NGC 3642	GALXY	UMA	11 22.3	+59 04	11.2	5.5 m	4.7 m	105	Sbc	pB,pL,R,vgbM	26
					x			NGC 3652	GALXY	UMA	11 22.7	+37 46	12.2	2 m	0.7 m	150	SBc/P	pF,cL,IE,vgbM	26

Deep Sky Object List (2/5)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 3656	GALXY	UMA	11 23.6	+53 51	12.5	1.5 m	1.5 m		Elliptical	pB,S,R,vgbM,*12 p	26
								NGC 3657	GALXY	UMA	11 23.9	+52 55	12.4	1.7 m	1.7 m		SBc/P	cF,vS,R,stellar	26
								NGC 3658	GALXY	UMA	11 24.0	+38 34	12.2	1.8 m	1.7 m		SO	F,S,R,svmbMN = *14	26
				x				NGC 3665	GALXY	UMA	11 24.7	+38 46	10.8	3.5 m	3 m	30	SO	cB,cL,iR,pgmbM	26
					x			NGC 3669	GALXY	UMA	11 25.4	+57 43	12.4	2 m	0.5 m	153	SBcd	vF,pL,pmE 135,er	26
		x	x	x				NGC 3675	GALXY	UMA	11 26.1	+43 35	10.2	6.2 m	3.6 m	178	Sb	vB,cL,vmE 0,vsmbMN,many st p	26
								NGC 3677	GALXY	UMA	11 26.3	+46 58	12.3	1.6 m	1.3 m	130	Sa	eF,S,R,vsbM *,2 st 11 nf	26
								NGC 3674	GALXY	UMA	11 26.4	+57 03	12.2	1.7 m	0.6 m	33	SO	pF,iF	26
					x			NGC 3683	GALXY	UMA	11 27.5	+56 53	12.4	1.8 m	0.7 m	128	SBc	cB,pL,E	26
								NGC 3690	GALXY	UMA	11 28.5	+58 34	11.5	2 m	1 m	130	Sp?	pB,pS,vIE 80,pgbM,S st sf nr	26
								NGC 3683A	GALXY	UMA	11 29.2	+57 08	11.9	2.4 m	1.7 m	75	SBc		26
			x					NGC 3718	GALXY	UMA	11 32.6	+53 04	10.8	8.2 m	3.5 m	15	SBap	pB,vL,R,vglbM	26
			x	x			x	NGC 3726	GALXY	UMA	11 33.3	+47 02	10.4	6 m	4.1 m	10	SBc Ring	pB,vL,IE 0,vsmbM *15,*11 n	26

## Deep Sky Object List (3/5)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
				x				NGC 3729	GALXY	UMA	11 33.8	+53 08	11.4	2.9 m	1.9 m	15	SB/P	pB,pL,IE 0,gbM,*12 nr	26
								NGC 3733	GALXY	UMA	11 35.0	+54 51	12.4	4.9 m	2.2 m	170	SBc	eF,S,iR,*6 sf	26
								NGC 3738	GALXY	UMA	11 35.8	+54 31	11.7	2.6 m	2.2 m	155	lr	pB,pL,bM	26
					x			NGC 3756	GALXY	UMA	11 36.8	+54 18	11.5	4.2 m	2.1 m	177	SBbc	pF,L,mE N-S	26
								NGC 3769	GALXY	UMA	11 37.7	+47 54	11.8	2.9 m	1 m	152	SBb	pB,S,pmE	26
								NGC 3782	GALXY	UMA	11 39.3	+46 31	12.4	1.6 m	1.1 m	0	SBcd	F,S,att to *15,another * inv	26
								NGC 3780	GALXY	UMA	11 39.4	+56 16	11.5	3 m	2.4 m	90	Sc	pF,L,vIE,vgbM,r	26
								NGC 3796	GALXY	UMA	11 40.5	+60 18	12.5	1.3 m	0.9 m	127	S pec	F,cS,R,mbM	26
								NGC 3811	GALXY	UMA	11 41.3	+47 41	12.3	2.2 m	1.7 m	160	SBc/P	F,S,vIE,glbM	26
								NGC 3835	GALXY	UMA	11 44.1	+60 07	12.4	1.8 m	0.7 m	60	Sab	pB,E,gbM,sf 5'	26
								NGC 3838	GALXY	UMA	11 44.2	+57 57	12.3	1.4 m	0.6 m	141	Sa	pB,cS,E,psbM *12	26
		x		x		43		NGC 3877	GALXY	UMA	11 46.1	+47 30	11	5.3 m	1.2 m	35	Sc	B,L,mE 37	26
								NGC 3888	GALXY	UMA	11 47.6	+55 58	12.1	1.8 m	1.4 m	120	SBc	pB,S,IE,pgbM	26

## Deep Sky Object List (4/5)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
			x	x				NGC 3893	GALXY	UMA	11 48.6	+48 43	10.5	4.5 m	2.4 m	165	SBc	B,pL,R,mbM	26
								NGC 3894	GALXY	UMA	11 48.8	+59 25	11.6	2 m	1.4 m	20	E3	B,pL,iR,pgmbM,p of 2	26
				x				NGC 3898	GALXY	UMA	11 49.3	+56 05	10.7	3.8 m	2.6 m	107	Sab	B,pL,IE,symbM	26
								NGC 3917	GALXY	UMA	11 50.8	+51 49	11.8	5 m	1.1 m	77	Sc	F,L,vmE,vgbM	26
								NGC 3921	GALXY	UMA	11 51.1	+55 05	12.4	2.1 m	1.3 m	20	Sa	pF,S,R,pspmbM	26
								NGC 3930	GALXY	UMA	11 51.8	+38 01	12.4	3 m	2.3 m	30	SBc	eF,cL,iF,glbM,*7 (Grb 1830) f	26
				x				NGC 3938	GALXY	UMA	11 52.8	+44 07	10.4	5.1 m	5 m		Sc	B,vL,R,bM,pBN,er	26
				x				NGC 3945	GALXY	UMA	11 53.2	+60 40	10.9	6.4 m	4.2 m	15	SBO-a Ring	B,pL,R,gmbM,r,*12 sp	26
				x				NGC 3949	GALXY	UMA	11 53.7	+47 52	11.1	2.9 m	1.7 m	120	Sbc	cB,pL,pmE,vgbM	26
				x			x	NGC 3953	GALXY	UMA	11 53.8	+52 19	10.1	6.9 m	3.6 m	13	SBbc	cB,L,E 0,vsbM,fine spiral	26
								NGC 3963	GALXY	UMA	11 55.0	+58 30	11.9	2.7 m	2.4 m		SBbc Ring	pF,cL,R,vgsbM	26
								NGC 3972	GALXY	UMA	11 55.8	+55 19	12.3	3.7 m	1 m	120	SBbc	pB,E	26
				x				NGC 3982	GALXY	UMA	11 56.5	+55 07	11	2.3 m	2 m		SBb	B,pL,R,g,sbM,disc	26

Deep Sky Object List (5/5)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								UGC 6930	GALXY	UMA	11 57.3	+49 16	12.1	4.4 m	2.8 m		S(B)d		26
M109			*	x				NGC 3992	GALXY	UMA	11 57.6	+53 22	9.8	7.5 m	4.4 m	68	SBbc	cB,vL,pmE,sbM,BN	26
								MCG +09-20-046	GALXY	UMA	11 57.8	+55 28	11.8	1.5 m	1.2 m			Inner Regions Completely Black--MCG	26
			x	x				NGC 3998	GALXY	UMA	11 57.9	+55 27	10.7	2.7 m	2.3 m	140	SO	cB,pS,R,vg,smbM	26
					x			NGC 4013	GALXY	UMA	11 58.5	+43 57	11.2	4.8 m	1 m	66	Sb	B,cL,mE62,vsvmbM*10	26
								IC 749	GALXY	UMA	11 58.6	+42 44	12.4	2.3 m	2 m	150	SBc Ring	pB,L,E,lbM	26
								IC 750	GALXY	UMA	11 58.9	+42 43	11.9	2.6 m	1.2 m	43	Sab	pB,L,IE,bM	26
								UGC 6983	GALXY	UMA	11 59.2	+52 42	12.4	4.2 m	3.2 m	85	SBc		26
		x	x	x		45		NGC 4026	GALXY	UMA	11 59.4	+50 58	10.8	4.7 m	1.2 m	178	SO	vB,cL,mE176,vsvmbM, BN	26
								MCG +09-20-052	GALXY	UMA	11 59.5	+50 55	11.7	2.5 m	0.7 m			Inner Regions Completely Black--MCG	26

## Deep Sky Object List (1/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
					x			NGC 3073	GALXY	UMA	10 00.9	+55 37	13.4	1.2 m	1.1 m		SBO	vF,S,vglbM	27
		x		x		41	x	NGC 3079	GALXY	UMA	10 02.0	+55 41	10.9	8.1 m	1.3 m	165	SBc	vB,L,mE 135,long streak	27
					x			NGC 3158	GALXY	LMI	10 13.8	+38 46	11.9	2.3 m	2.2 m		E2	cB,cS,R,psbM,r	27
		x	x	x		42	x	NGC 3184	GALXY	UMA	10 18.3	+41 25	9.8	7.6 m	7.4 m	135	SBc	pB,vL,R,vgbM	27
								NGC 3182	GALXY	UMA	10 19.6	+58 12	12.1	2.1 m	1.7 m	155	Sa	cB,cL,iR,vgbM	27
			x	x			x	NGC 3198	GALXY	UMA	10 19.9	+45 33	10.3	8.1 m	3 m	35	SBc Ring	pB,vL,mE 45,vgbM	27
								NGC 3206	GALXY	UMA	10 21.8	+56 56	11.9	2.9 m	1.9 m	0	SBc	pB,cL,E,vglbM	27
					x			NGC 3225	GALXY	UMA	10 25.2	+58 09	12.6	2 m	1 m	155	Sc	cF,pL,IE,vgbM	27
								NGC 3264	GALXY	UMA	10 32.3	+56 05	12	2.9 m	1.2 m	177	SB	eF,bet 2 S st	27
				x				NGC 3294	GALXY	LMI	10 36.3	+37 19	11.8	3.4 m	1.8 m	122	Sc	cB,L,mE 135,glbM	27
			x	x			x	NGC 3310	GALXY	UMA	10 38.8	+53 30	10.8	2.8 m	2.6 m		SBbc/P	cB,pL,R,vg,vsmbMN 15"	27
			x		x			NGC 3319	GALXY	UMA	10 39.2	+41 41	11.1	6.1 m	3.4 m	37	SBc	cF,L,mE	27
								NGC 3320	GALXY	UMA	10 39.6	+47 24	12.3	2.2 m	1 m	20	SBc	F,pS,mE,*10 nf	27

Deep Sky Object List (2/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 3448	GALXY	UMA	10 54.6	+54 18	12.1	5.6 m	1.7 m	65	Sa	B,pL,mE 67,gbM	27
								NGC 3458	GALXY	UMA	10 56.0	+57 07	12.2	1.4 m	0.8 m	5	SBO	vB,vS,R,stellar	27
								NGC 3471	GALXY	UMA	10 59.1	+61 32	12.5	1.7 m	0.8 m	14	Sa	vF,S,R,bM	27

## Deep Sky Object List (1/1)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 2726	GALXY	UMA	09 04.9	+59 56	12.5	1.6 m	0.5 m	87	Sa	cF,pS,iR,er	28
				x				NGC 2742	GALXY	UMA	09 07.6	+60 29	11.4	3 m	1.5 m	87	Sc	cB,cL,E 90 deg,er	28
								MCG +10-13-057	GALXY	UMA	09 07.6	+60 28	12.1	1.3 m	0.9 m			Inner Regions Very Black--MCG	28
								NGC 2816	GALXY	UMA	09 07.6	+60 29	12.1	3 m	1.5 m	87	Sc	F,pmE	28
					x			NGC 2756	GALXY	UMA	09 09.0	+53 51	12.4	1.7 m	1.2 m	0	Sb	pB,pS,E,vgbM	28
				x				NGC 2768	GALXY	UMA	09 11.6	+60 02	9.9	8.2 m	5.3 m	95	E5	cB,cL,IE,psbM,LBN	28
								NGC 2776	GALXY	LYN	09 12.2	+44 57	11.6	2.8 m	2.5 m		SBc	pB,L,R,vgbM,r	28
			x	x				NGC 2782	GALXY	LYN	09 14.1	+40 07	11.6	3.7 m	2.4 m	40	SBa	cB,R,mbMBN	28
								NGC 2798	GALXY	LYN	09 17.4	+42 00	12.3	2.8 m	0.9 m	160	SBap	pB,S,stellar	28
		x	x	x		40	x	NGC 2841	GALXY	UMA	09 22.0	+50 59	9.2	7.7 m	3.6 m	147	Sb	vB,L,vmE151,vsmBM = *10	28
								NGC 2857	GALXY	UMA	09 24.6	+49 21	12.3	2.2 m	2 m		Sc	vF,pL,4 st p	28
				x				NGC 2950	GALXY	UMA	09 42.6	+58 51	10.9	2.7 m	1.8 m	145	SBO Ring	B,pS,R,vgvmbMN	28
								NGC 2998	GALXY	UMA	09 48.7	+44 05	12.5	2.7 m	1.2 m	53	SBc	pF,pL,E51,bMN,r	28

## Deep Sky Object List (1/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
					x			NGC 2493	GALXY	LYN	08 00.4	+39 50	12	1.9 m	1.9 m		SBO	cB,S,R,sbM	29
								NGC 2488	GALXY	LYN	08 01.8	+56 33	12.4	1.4 m	0.8 m	100	E-SO	vF,vS,R,glbM	29
					x			NGC 2500	GALXY	LYN	08 01.9	+50 44	11.6	2.9 m	2.7 m		SBcd	F,L,R,vgbM,r,am st	29
								NGC 2537	GALXY	LYN	08 13.2	+45 59	11.7	3.1 m	2.7 m	0	SBp	pB,pL,R,rrr,st 20	29
					x			NGC 2541	GALXY	LYN	08 14.7	+49 04	11.8	6.3 m	2.9 m	165	SBc	F,L,E,vgbM	29
								NGC 2549	GALXY	LYN	08 19.0	+57 48	11.2	3.8 m	1.2 m	177	SO	pB,S,mE0,psmbM	29
								NGC 2552	GALXY	LYN	08 19.3	+50 00	12.1	3.6 m	2.1 m	45	Ir	eF,cL,IE45	29
								UGC 4393	GALXY	LYN	08 26.1	+45 58	12.4	2.5 m	1.8 m	45	SB		29
					x			NGC 2639	GALXY	UMA	08 43.6	+50 12	11.6	1.8 m	1.4 m	140	Sa	cB,S,E130,psmbM	29
								NGC 2654	GALXY	UMA	08 49.2	+60 13	11.8	4.2 m	0.8 m	63	SBab	pF,S,F* in M,F* close sp	29
			x	x				NGC 2681	GALXY	UMA	08 53.5	+51 19	10.3	3.7 m	3.7 m		SBO-a	vB,vL,vg,vsmbM *10	29
								NGC 2685	GALXY	UMA	08 55.6	+58 44	11.3	4.6 m	2.1 m	38	SBO-a	pF,R,F* in centre	29
								NGC 2693	GALXY	UMA	08 57.0	+51 21	11.9	3 m	2.1 m	160	Ep	pB,IE,psmbM	29

Deep Sky Object List (2/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 2701	GALXY	UMA	08 59.1	+53 46	12.3	2.2 m	1.6 m	23	SBc	pB,fan-shaped,*11 att	29
								NGC 2712	GALXY	LYN	08 59.5	+44 55	12.1	2.8 m	1.5 m	178	SBb	pB,L,E,vgbM *18	29

Deep Sky Object List (1/1)

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								NGC 2320	GALXY	LYN	07 05.7	+50 35	11.9	1.4 m	0.8 m	140	Elliptical	pB,S,iR,gbM,*8 sp	30
								UGC 3685	GALXY	LYN	07 09.0	+61 36	12	4.0 m	4.0 m		SBb		30
								NGC 2329	GALXY	LYN	07 09.1	+48 37	12.4	1.3 m	1.1 m	175	SO	vF,vS,stellar	30
								NGC 2337	GALXY	LYN	07 10.2	+44 27	12.4	2.3 m	1.7 m	120	lr	eF,S,E	30
								NGC 2340	GALXY	LYN	07 11.2	+50 10	11.7	1.8 m	1.2 m	80	Elliptical	pF,S,R,glbM,r	30
								NGC 2344	GALXY	LYN	07 12.5	+47 10	12	1.7 m	1.7 m		SBbc	pB,pS,R,lbM	30
	C 25		x	x			x	NGC 2419	GLOCL	LYN	07 38.1	+38 53	10.4	6.2 m			II	pB,pL,IE 90deg,vgbM,*7-8 267deg,4' dist	30
								NGC 2460	GALXY	CAM	07 56.9	+60 21	11.8	2.2 m	1.7 m	40	Sab	F,S,R,S* in centre	30

Deep Sky Object List (1/1)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
				x				NGC 2126	OPNCL	AUR	06 02.5	+49 52	10.2	6.0 m			II 1 p	Cl,not Ri,*7 north	31
					x			NGC 2192	OPNCL	AUR	06 15.3	+39 51	10.9	6.0 m			III 1 p	Cl,cL,C,iF,st vS	31
								IC 2166	GALXY	LYN	06 26.9	+59 05	12.4	3 m	2.1 m	115	SBbc	Neb;F*p1',D*f3'	31
								UGC 3504	GALXY	LYN	06 40.1	+60 04	12.3	3.1 m	2.7 m	135	S(B)c		31
								NGC 2273B	GALXY	LYN	06 46.5	+60 20	12.5	2.7 m	1.5 m	55	SBd		31
			x	x			x	NGC 2281	OPNCL	AUR	06 48.3	+41 05	5.4	15.0 m			I 3 p	Cl,pRi,viC,st pL	31
								NGC 2273	GALXY	LYN	06 50.1	+60 51	11.7	3.2 m	2.4 m	50	SBa	F,S,iR,r?	31

Deep Sky Object List (1/1)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 1724	OPNCL	AUR	05 03.5	+49 30	10.0p					Cl,vS,(st+ neb)	32
					x			NGC 1778	OPNCL	AUR	05 08.1	+37 01	7.7	7 m			III 2 p	Cl,pC,IRi,iF,st L	32
								PK 169-0.1	PLNNB	AUR	05 19.2	+38 11	12	32 s					32
			x	x				NGC 1857	OPNCL	AUR	05 20.1	+39 21	7	6 m			II 2 m	Cl,pRi,pC,st7...	32
								Cr 62	OPNCL	AUR	05 22.5	+41 00	4.2	28.0 m			IV 3 p		32
					x			NGC 1883	OPNCL	AUR	05 25.9	+46 29	12	2.5 m			II 1 p	Cl,vF,pRi,pC,iF	32
								IC 2149	PLNNB	AUR	05 56.4	+46 06	10	12 s	6 s		3b(2)	S,vB	32

## Deep Sky Object List (1/1)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
		x	x		x	19		NGC 1491	BRTNB	PER	04 03.2	+51 19	99.9	6 m	9 m		E	vB,S,iF,bM,r,* inv	33
								NGC 1496	OPNCL	PER	04 04.5	+52 40	9.6	6.0 m			II 1 p	Cl,segment of a ring	33
		x	x	x		20	x	NGC 1501	PLNNB	CAM	04 07.0	+60 55	12	56 s	48 s		3	pB,pS,vIE,1'Diam	33
			x	x				NGC 1513	OPNCL	PER	04 09.9	+49 31	8.4	9.0 m			II 1 m	Cl,L,vRi,pC,st vL	33
			x	x			x	NGC 1528	OPNCL	PER	04 15.3	+51 13	6.4	24.0 m			II 2 m	Cl,B,vRi,cC	33
				x				NGC 1545	OPNCL	PER	04 20.9	+50 15	6.2	18.0 m			II 2 p	Cl,pRi,IC,st L	33
					x			NGC 1582	OPNCL	PER	04 31.8	+43 47	7	37.0 m			IV 2 p	Cl,vL,pRi,IC,st L	33
					x			NGC 1605	OPNCL	PER	04 34.9	+45 16	10.7	5.0 m			III 1 m	Cl,vF,pS,C,st eS	33
			x		x			NGC 1624	CL+NB	PER	04 40.6	+50 28	11.8	1.9 m			II 1 p n:b	F,cL,iF,6or7*+ neb	33
								Berk 68	OPNCL	PER	04 44.5	+42 04	9.8	12.0 m			IV 2 p		33
								Ru 148	OPNCL	PER	04 46.5	+44 44	9.5	3.0 m			IV 2 p	13"-pF,pS,nC,nRi at 100X; 2* 10m and 12* 12m	33
				x			x	NGC 1664	OPNCL	AUR	04 51.1	+43 41	7.6	18 m			III 1 p	Cl,IRi,IC,pL	33

Deep Sky Object List (1/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								Cr 34	OPNCL	CAS	03 00.9	+60 25	6.8	25.0 m			I 3 p		34
					x			NGC 1161	GALXY	PER	03 01.2	+44 54	11	2.8 m	2 m	23	SO	F,pS,IE,sbM	34
					x			NGC 1169	GALXY	PER	03 03.6	+46 23	11.3	4.6 m	2.7 m	28	SBab	pF,pS,iF,sbM	34
								NGC 1171	GALXY	PER	03 04.0	+43 24	12.3	2.7 m	1.1 m	147	Sc	vF,pL,iF	34
					x			NGC 1175	GALXY	PER	03 04.5	+42 20	12.9	1.9 m	0.7 m	153	Sa	F,cL,E	34
								NGC 1186	GALXY	PER	03 05.5	+42 50	11.4	3.2 m	1.2 m	122	SBbc	F*W,neb appendages	34
					x			NGC 1193	OPNCL	PER	03 05.9	+44 23	12.6	1.5 m			II 3 m	F,cL,er	34
								NGC 1198	GALXY	PER	03 06.2	+41 51	12.5	1.9 m	1.1 m	120	E-SO	neb *11	34
								IC 284	GALXY	PER	03 06.2	+42 22	11.5	4.1 m	2.1 m	13	Sd	eeF,pL,IE,D * np,between 2 *	34
					x			NGC 1207	GALXY	PER	03 08.3	+38 23	12.6	2.3 m	1.6 m	123	Sb Ring	cF,vS,R,psb in npp end	34
						10		IC 289	PLNNB	CAS	03 10.3	+61 19	12	45 s	30 s		4(2)	pB,pL,R,bet 2 vF stars	34
			x	x			x	NGC 1245	OPNCL	PER	03 14.7	+47 14	8.4	10 m			III 1 r	Cl,pL,Ri,C,iR,*12..15	34
								NGC 1265	GALXY	PER	03 18.3	+41 51	12.1	1.8 m	1.6 m	165	SO	vF,vS,mbM	34

Deep Sky Object List (2/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 1272	GALXY	PER	03 19.4	+41 29	11.8	2.2 m	2 m		SO	F,S,R	34
	C 24							NGC 1275	GALXY	PER	03 19.8	+41 31	11.9	2.3 m	1.6 m	110	SO	F,S	34
								NGC 1278	GALXY	PER	03 19.9	+41 34	12.4	1.4 m	1.1 m	90	E2p	pB,pS,R,bM	34
			!!!!*					Mel 20	OPNCL	PER	03 22.0	+49 00	1.2	185 m			III 3 m	10X50- vB,vvL,scattered; 39*	34
				x				NGC 1342	OPNCL	PER	03 31.7	+37 22	6.7	14.0 m			III 3 p	Cl,vL,ab60*	34
					x			NGC 1348	OPNCL	PER	03 34.1	+51 25	99.9	5 m			II 2 p	Cl,IRi,st L	34
								Tombaugh 5	OPNCL	CAM	03 47.8	+59 03	8.4	17.0 m			III 2 m		34
				x				NGC 1444	OPNCL	PER	03 49.4	+52 40	6.6	4.0 m			IV 1 p	Cl of ab 30*12...14	34

## Deep Sky Object List (1/3)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 812	GALXY	AND	02 06.9	+44 34	11.2	3 m	1.3 m	160	Sbc	eF,pL,E45,bM	35
								NGC 818	GALXY	AND	02 08.7	+38 47	12.5	2.9 m	1.2 m	113	SBbc	pB,cL,IE,mbM	35
								NGC 828	GALXY	AND	02 10.2	+39 11	12.3	2.9 m	2.2 m	145	Sap	pB,S,iR,D* f 15"	35
								NGC 846	GALXY	AND	02 12.2	+44 34	12.1	1.9 m	1.7 m	140	SBab	eF,vS,R,gbM	35
								Stock 2	OPNCL	CAS	02 15.0	+59 16	4.4	60.0 m			III 1 m	13"-vB,vL,nC,vRi at 60X; 88*, nice chains	35
								Basel 10	OPNCL	PER	02 18.8	+58 19	9.9						35
	C 14	x	!!!!	x		17	x	NGC 869	OPNCL	PER	02 19.1	+57 08	5.3	30 m			I 3 r	Cl,vL,vRi,*7...14	35
	C 14	x	!!!!	x		17	x	NGC 884	OPNCL	PER	02 22.5	+57 09	6.1	30 m			I 3 r	Cl,vL,vRi,ruby*M	35
	C 23	x	*	x		12	x	NGC 891	GALXY	AND	02 22.6	+42 21	9.9	13.1 m	2.8 m	22	Sb	B,vL,vmE22	35
								NGC 910	GALXY	AND	02 25.4	+41 49	12.2	2 m	2 m		SO	vF,pS,stellar	35
								IC 1795	BRTNB	CAS	02 25.8	+61 59	99.9	12 m	12 m		E	vL,F	35
								Mrk 6	OPNCL	CAS	02 29.6	+60 39	7.1	4.5 m			IV 2 p	13"-9 pB* and 6 pF* in Small grp at 100X	35
								NGC 949	GALXY	TRI	02 30.8	+37 08	11.8	2.7 m	1.7 m	145	Sb	cB,L,E,vgbM	35

## Deep Sky Object List (2/3)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 956	OPNCL	AND	02 32.5	+44 36	8.9	8.0 m			IV 1 p	Cl,pRi,*9...15	35
								Mel 15	OPNCL	CAS	02 32.6	+61 27	6.6	21.0 m			III 3 p n	13"-B,pL,pRi,pC; 20* at 135X; some neby to S	35
			x					IC 1805	CL+NB	CAS	02 32.7	+61 27	6.5	60 m	60 m		III 3 p n	Cl,C,eL neby extends following	35
								Czernik 8	OPNCL	PER	02 33.0	+58 44	9.7	7.0 m			II 3 m		35
								NGC 957	OPNCL	PER	02 33.3	+57 34	7.6	11.0 m			III 2 p	Cl,pL,pRi,*13...15	35
								NGC 982	GALXY	AND	02 35.4	+40 52	12.5	1.5 m	0.6 m	132	Sa	F,S,nf of 2	35
								Maffei 1	GALXY	CAS	02 36.3	+59 39	11.4	5 m	3 m			vF,pS	35
								IC 239	GALXY	AND	02 36.5	+38 58	11.1	4.6 m	4.2 m		SBa	vF spiral,F stellar nucleus	35
								Tr 2	OPNCL	PER	02 37.3	+55 59	5.9	20.0 m			III 2 p	13"-pB,pL,pRi,sC at 100X; 20*; BI-Gold D* inv	35
					x			NGC 1003	GALXY	PER	02 39.3	+40 52	11.4	5.7 m	2.2 m	97	Sc	pF,L,E90,mbM,r	35
		x	x	x		18	x	NGC 1023	GALXY	PER	02 40.4	+39 04	9.4	8.1 m	3.4 m	87	E7p	vB,vL,vmE,vvmbM	35
M 34			!					NGC 1039	OPNCL	PER	02 42.1	+42 47	5.2	35.0 m			II 3 m	Cl,B,vL,IC,sC st9...	35

Deep Sky Object List (3/3)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
				x				NGC 1027	OPNCL	CAS	02 42.6	+61 36	6.7	20.0 m			III 2 p n	Cl,L,scatt stars, one 10th mag	35
					x			NGC 1058	GALXY	PER	02 43.5	+37 20	11.2	3.2 m	3.1 m		Sc	pF,cL,R,glbM	35
								NGC 1106	GALXY	PER	02 50.7	+41 40	12.3	1.8 m	1.8 m		SO	vF,vS,vF * att s	35
								IC 1848	CL+NB	CAS	02 51.4	+60 25	6.5	40 m	10 m		IV 3 p n	Cl,star following,in F neby	35
								NGC 1122	GALXY	PER	02 52.9	+42 12	12.1	1.8 m	1.3 m	40	SBb	vF,pS,R,* nr n	35
								NGC 1129	GALXY	PER	02 54.5	+41 35	12.5	4 m	3.1 m	90	Elliptical	cF,pS,iR,vglbM,D or F*,sp	35
								Cr 33	OPNCL	CAS	02 59.3	+60 24	5.9	40.0 m					35

Deep Sky Object List (1/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
				x				NGC 381	OPNCL	CAS	01 08.4	+61 35	9.3	6.0 m			III 2 p	Cl,pC	36
								NGC 393	GALXY	AND	01 08.6	+39 39	12.5	1.7 m	1.4 m	20	E-SO	F,vS,vIE,gbM,4 S st nr	36
								NGC 433	OPNCL	CAS	01 15.2	+60 08	9	2.5 m			III 2 p	Cl,S,IC	36
				x				NGC 436	OPNCL	CAS	01 16.0	+58 49	8.8	6.0 m			I 3 m	Cl,S,iF,pC	36
	C 13	x	x	x		8	x	NGC 457	OPNCL	CAS	01 19.5	+58 17	6.4	13.0 m			I 3 r	Cl,B,L,pRi,*7,8,10	36
M103			x					NGC 581	OPNCL	CAS	01 33.4	+60 39	7.4	6.0 m			III 2 p	Cl,pL,B,R,Ri,*10..11	36
								Tr 1	OPNCL	CAS	01 35.7	+61 17	8.1	4.5 m			I 3 p	S,pC	36
M 76			!*	x				NGC 651	PLNNB	PER	01 42.3	+51 35	11	163 s	107 s		3(6)	vB,f of Dneb	36
M 76			!*					NGC 650	PLNNB	PER	01 42.3	+51 35	11	163 s	107 s		3(6)	vB,p of Dneb	36
				x				NGC 654	OPNCL	CAS	01 44.0	+61 53	6.5	5.0 m			II 3 m	Cl,iF,Ri,1*6.7m	36
				x				NGC 659	OPNCL	CAS	01 44.4	+60 40	7.9	5.0 m			III 1 p	Cl,I,Ri,st B	36
	C 10	x	x	x		9	x	NGC 663	OPNCL	CAS	01 46.0	+61 15	7.1	16 m			III 2 m	Cl,B,L,eRi,st pL	36
	C 28		x	x			x	NGC 752	OPNCL	AND	01 57.7	+37 40	5.7	50 m			III 1 m	Cl,vvL,Ri,*L & S,C	36

Deep Sky Object List (2/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								NGC 744	OPNCL	PER	01 58.5	+55 28	7.9	11.0 m			IV 2 p	Cl,pL,pRi,iF,*11..13	36
								NGC 743	OPNCL	CAS	01 58.5	+60 10	9.5	5.0 m			II 1 p	Cl,not Ri,D*	36

## Deep Sky Object List (1/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
								Berk 58	OPNCL	CAS	00 00.2	+60 58	9.7	8.0 m			IV 2 p		37
								PK 118- 8.1	PLNNB	CAS	00 18.7	+53 53	12.5	5 s					37
								NGC 103	OPNCL	CAS	00 25.3	+61 19	9.8	5.0 m			II 2 p	Cl,pS,pC,st 11...18	37
				x			x	NGC 129	OPNCL	CAS	00 30.0	+60 13	6.5	21.0 m			IV 2 p	Cl,vL,pRi,IC,st 9...13	37
				x				NGC 136	OPNCL	CAS	00 31.5	+61 31	11.5p	1.2 m			II 2 p	vF,S,eC	37
	C 17		x					NGC 147	GALXY	CAS	00 33.2	+48 30	9.5	13.5 m	8.2 m	25	dE4	vF,vL,iR,gsmbM,*1.1	37
	C 18	x	x	x		6	x	NGC 185	GALXY	CAS	00 39.0	+48 20	9.2	12.5 m	10.4 m	35	dE0	pB,vL,iR,vgmbM,r	37
								NGC 189	OPNCL	CAS	00 39.6	+61 05	8.8	3.7 m			III 2 p	Cl,pL,R,st 11...15	37
								Stock 24	OPNCL	CAS	00 39.7	+61 57	8.8	4.0 m			IV 2 P		37
M110			*	x				NGC 205	GALXY	AND	00 40.4	+41 41	8.1	19.5 m	11.5 m	170	E6	vB,vL,mE 165 degrees,vgvmbM	37
					x			NGC 206	G+C+N	AND	00 40.5	+40 44	99.9				Pec	vF,vL,mE 0 degrees	37
M 31			!!!!*					NGC 224	GALXY	AND	00 42.7	+41 16	3.4	189.1 m	61.7 m	35	Sb	!!!eeB,eL,vmE	37
M 32			*					NGC 221	GALXY	AND	00 42.7	+40 52	8.1	8.5 m	6.5 m	170	E2	vvB,L,R,psmbMN	37

Deep Sky Object List (2/2)

Messier	Caldwell	Best NGC	Clark	Herschel 400	Herschel-II	RASC	TAAS200	Object	Type	Con.	R.A. (h m)	Dec. (° ')	Mag.	Size max	Size min	P.A. (°)	Class	NGC Description	Chart No.
			S	x			x	NGC 225	OPNCL	CAS	00 43.6	+61 46	7	12.0 m			III 1 p n	Cl,L,IC,st 9...10	37
			x	x				NGC 278	GALXY	CAS	00 52.1	+47 33	10.8	2.4 m	2.4 m		SBb	cB,pL,R,2 st 10 nr	37
		x	x			7	x	NGC 281	CL+NB	CAS	00 53.0	+56 37	7.4	4.0 m			E+*	F,vL,dif,S triple * on np edge	37