

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.
								IC 1470	BRTNB	CEP	23 05.2	+60 15	99.9	15 m	1 m		E	vF,vS,*N on n edge	14
								King 19	OPNCL	CEP	23 08.3	+60 31	9.2	7.0 m			II 2 m	13"-pF,pS,nC; 12* at 165X	14
			x	x			x	NGC 7510	OPNCL	CEP	23 11.5	+60 34	7.9	4.0 m			II 2 m n	Cl,pRi,pC,fan-sh,*pB	14
								NGC 7538	BRTNB	CEP	23 14.1	+61 29	99.9	8 m	7 m		E	vF,L,2pB* inv	14
								Mrk 50	OPNCL	CEP	23 15.3	+60 28	8.5	5.0 m			I 2 p n		14
	C 11		x		x	4		NGC 7635	BRTNB	CAS	23 20.2	+61 11	11.0p	15 m	8 m		E	vF,*8 inv l excentric	14
					x			NGC 7640	GALXY	AND	23 22.1	+40 51	11.3	10 m	1.9 m	167	SBbc	cF,L,mE164,vlbM,r	14
M 52			x					NGC 7654	OPNCL	CAS	23 24.2	+61 35	6.9	13.0 m			I 2 r	L,Ri,mCM,*9..13	14
	C 22	x	*	x		11	x	NGC 7662	PLNNB	AND	23 25.9	+42 32	8.6	17 s	14 s		4(3)	!!! Planetary or annular neb,vB,pS,R,blue	14
								UGC 12632	GALXY	AND	23 30.0	+41 00	12.1	4.9 m	3.9 m		S		14
				x				NGC 7686	OPNCL	AND	23 30.1	+49 08	5.6	15.0 m			IV 1 p	Cl,P,IC,st 7...11	14
								King 12	OPNCL	CAS	23 53.0	+61 58	10	2.0 m			I 2 p	13"-pB,S,sE; 15* at 135X; D* invol	14
								Harvard 21	OPNCL	CAS	23 54.1	+61 46	9	4.0 m			IV 2 p	pRi,C	14

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 7788	OPNCL	CAS	23 56.7	+61 24	9.4	9.0 m			I 2 p	Cl,S,pRi,vC,st 10,13..	14
		x	x	x		5	x	NGC 7789	OPNCL	CAS	23 57.4	+56 43	6.7	16 m			II 1 r	Cl,vL,vRi,vmC,st 11...18	14
								Frolov 1	OPNCL	CAS	23 57.4	+61 38	9.2						14
				x				NGC 7790	OPNCL	CAS	23 58.4	+61 13	8.5	17 m			III 2 p	Cl,pRi,pC	14
								MCG +08-01-016	GALXY	AND	23 59.2	+46 53	12	1.0 m	0.8 m			Inner Regions Completely Black--MCG	14
								MCG +08-01-018	GALXY	AND	23 59.9	+47 16	12	0.4 m	0.3 m			Inner Regions Very Black--MCG	14

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		x		x			x	NGC 7209	OPNCL	LAC	22 05.1	+46 29	7.7	25.0 m			III 1 p	Cl,L,cRi,pC,st9...12	15
								UGC 11909	GALXY	LAC	22 06.3	+47 15	12.3	3.0 m	0.7 m	3	S pec		15
								NGC 7223	GALXY	LAC	22 10.2	+41 01	12.2	1.7 m	1.2 m	110	SBc	eF,pS,IE,r,am 3st	15
								IC 1434	OPNCL	LAC	22 10.5	+52 50	9	8.0 m			II 1 p?	fine cl,6 branches,st 12-15 mag	15
								NGC 7226	OPNCL	CEP	22 10.5	+55 25	9.6	1.8 m			I 1 p	pB,L,in cluster	15
			S					NGC 7235	OPNCL	CEP	22 12.6	+57 17	7.7	4.0 m			III 2 p	Cl,pC,has a ruby *10	15
	C 16	x	x	x			x	NGC 7243	OPNCL	LAC	22 15.1	+49 54	6.4	21.0 m			IV 2 p	Cl,L,P,IC,st vL	15
					x			NGC 7245	OPNCL	LAC	22 15.3	+54 20	9.2	5.0 m			II 1 p	Cl,C,st eS	15
								IC 1442	OPNCL	LAC	22 16.5	+54 03	9.1	5 m			II 2 m	Cl of neb stars	15
								NGC 7248	GALXY	LAC	22 16.9	+40 30	12.4	1.8 m	0.9 m	133	SO	vF,vS,mbM	15
								NGC 7261	OPNCL	CEP	22 20.4	+58 05	8.4	6.0 m			III 1 p	Cl,L,pRi,IC	15
								Berk 94	OPNCL	CEP	22 22.7	+55 51	8.7	4.0 m			I 1 p n		15
				x				NGC 7296	OPNCL	LAC	22 28.2	+52 17	9.7	4.0 m			III 2 p	Cl,iR,IC,st vS	15

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								PK 100- 8.1	PLNNB	LAC	22 31.7	+47 48	11.9				1		15
								NGC 7330	GALXY	LAC	22 36.9	+38 33	12.2	1.8 m	1.7 m		Elliptical	pB,S,IE,bM	15
					x			NGC 7354	PLNNB	CEP	22 40.3	+61 17	12.9	22 s	18 s		4(3b)	B,S,R,pgvlbM	15
				x			x	NGC 7380	OPNCL	CEP	22 47.3	+58 08	7.2	12.0 m			III 3 p n	Cl,pL,pRi,IC,*9...13	15
					x			NGC 7419	OPNCL	CEP	22 54.3	+60 50	13	2.0 m			II 3 r	Cl,pRi,cC	15

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			x	x			x	NGC 7008	PLNNB	CYG	21 00.5	+54 33	12	86 s	69 s		3	cB,L,E45,r,** att	16
	C 20	x	!	x		100	x	NGC 7000	BRTNB	CYG	21 01.8	+44 12	4	120 m	30 m		E	F,eeL,dif nebulosity	16
								Cr 428	OPNCL	CYG	21 03.2	+44 35	8.7	14.0 m			III 2 p n		16
			x					NGC 7026	PLNNB	CYG	21 06.3	+47 51	12	25 s	9 s		3a	pB,biN	16
		x	x			101		NGC 7027	PLNNB	CYG	21 07.0	+42 14	9.6	18 s	11 s		3a	eB,S	16
			S		x			NGC 7031	OPNCL	CYG	21 07.3	+50 50	9.1	5.0 m			IV 1 p	Cl of triple st,IC	16
								NGC 7039	OPNCL	CYG	21 11.2	+45 39	7.6	25.0 m			III 2 p	Cl,vL,pRi,E,st 10...	16
								IC 1369	OPNCL	CYG	21 12.1	+47 44	8.8	4.0 m			I 1 m	S,F,stars 13 mag	16
				x				NGC 7044	OPNCL	CYG	21 12.9	+42 29	12	6 m			II 2 R	Cl,vF,pL,vRi,vC,st 15...18	16
			x					NGC 7048	PLNNB	CYG	21 14.3	+46 17	11	60 s	50 s		3b	pF,pL,dif,iR,vlbM	16
				x				NGC 7062	OPNCL	CYG	21 23.5	+46 23	8.3	7.0 m			III 1 p	Cl,pS,pRi,pC,st13...	16
					x			NGC 7067	OPNCL	CYG	21 24.2	+48 01	9.7	3.0 m			II 2 p	Cl,P,(neb)	16
					x			NGC 7082	OPNCL	CYG	21 29.4	+47 05	7.2	25.0 m			IV 2 p	Cl,L,cRi,IC,st10..13	16

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.
			x	x				NGC 7086	OPNCL	CYG	21 30.5	+51 36	8.4	9.0 m			II 2 m	Cl,cL,vRi,pC,*11..16	16
M 39			x					NGC 7092	OPNCL	CYG	21 32.2	+48 26	4.6	32 m			III 2 p	Cl,vL,P,vIC,*7...10	16
								Tr 37	OPNCL	CEP	21 39.0	+57 30	5.1	50.0 m			II 3 m		16
								IC 1396	CL+NB	CEP	21 39.1	+57 30	3.5	89 m			II 3 m n	F,eL neby,incl Struve 2816	16
				x				NGC 7128	OPNCL	CYG	21 44.0	+53 43	9.7	3.1 m			II 3 m	Cl,S,pRi,has a ruby *9.5	16
	C 19						x	IC 5146	CL+NB	CYG	21 53.4	+47 16	10	20 m	10 m		IV 2 p n	F,L,iR,*9.5 m invl,br + drk masses invl	16

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			x	x				NGC 6866	OPNCL	CYG	20 03.9	+44 10	7.6	7.0 m			II 2 m	Cl,L,vRi,cC	17
								Basel 6	OPNCL	CYG	20 06.8	+38 21	7.7	14.0 m				13"-pB,pL,arrowhead shape, 22* at 100X	17
								PK 79+ 5.1	PLNNB	CYG	20 09.0	+43 44	12.3	23 s	21 s		4(2)		17
			x					NGC 6884	PLNNB	CYG	20 10.4	+46 28	12.6	5.6 s	5.0 s		2b	stellar	17
	C 27		*		x	98	x	NGC 6888	BRTNB	CYG	20 12.8	+38 19	10.0p	20 m	10 m		E	F,vL,vmE,** att	17
								IC 4996	OPNCL	CYG	20 16.5	+37 38	7.3	6.0 m			I 3 p n	Cl,st 8...13	17
								vdB 130	OPNCL	CYG	20 17.7	+39 19	9.3	6 m					17
								Cr 419	OPNCL	CYG	20 18.1	+40 43	5.4	4.5 m			IV 2 p	13"-pB,pL,nRi,sC, 16* mags 11..13 at 100X	17
								Berk 86	OPNCL	CYG	20 20.4	+38 42	7.9	8.0 m			I 3 p n	13"-pF,pS,nRi,nC 19* mags 10..13 at 135X	17
			S	x				NGC 6910	OPNCL	CYG	20 23.2	+40 47	7.4	8 m			I 2 p n	Cl,pB,pS,P,pC,*20.12	17
M 29			x					NGC 6913	OPNCL	CYG	20 23.9	+38 32	6.6	7.0 m			III 3 p n	Cl,P,IC,st L&S	17
		x	x	x		107	x	NGC 6939	OPNCL	CEP	20 31.5	+60 40	7.8	8.0 m			I 1 m	Cl,pL,eRi,pCM,*11..16	17
	C 12	x	!*	x		108	x	NGC 6946	GALXY	CEP	20 34.9	+60 09	8.8	11.2 m	9.8 m		SBc	vF,vL,vg,vsbM,rr	17

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.
								IC 5070	BRTNB	CYG	20 50.8	+44 21	8	60 m	50 m		E	F,dif	17
								NGC 6996	OPNCL	CYG	20 56.5	+45 29	10	7.0 m			III 2 p n	Cl,P,IC	17
					x			NGC 6991	OPNCL	CYG	20 56.6	+47 25	99.9	5 m				Cl,L,P,vIC	17
			x		x			NGC 6997	OPNCL	CYG	20 56.8	+44 39	10.0p	7 m				Cl,P,IC,st L	17



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 6764	GALXY	CYG	19 08.3	+50 56	11.9	2.2 m	1.2 m	62	SBbc	pF,pL,mE,sev vF * inv	18
			x					NGC 6791	OPNCL	LYR	19 20.7	+37 51	9.5	16 m			II 3 r	vF,L,vRi,*F	18
								NGC 6792	GALXY	LYR	19 21.0	+43 08	12.1	2.2 m	1.3 m	25	SBb	F,E26,glbM,*9.5 sf	18
			x					NGC 6811	OPNCL	CYG	19 38.2	+46 34	6.8	13.0 m			IV 3 p	Cl,L,pRi,IC,st11..14	18
		x	x			96		NGC 6819	OPNCL	CYG	19 41.3	+40 11	7.3	5.0 m			I 1 r	Cl,vL,vRi,*11...15	18
					x			NGC 6824	GALXY	CYG	19 43.7	+56 07	12.2	1.9 m	1.4 m	60	Sab	pB,iF,bM	18
	C 15	x	x	x		97	x	NGC 6826	PLNNB	CYG	19 44.8	+50 32	8.8	27 s	24 s		3a(2)	Planetary,B,pL,R,*11m	18

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 6675	GALXY	LYR	18 37.4	+40 03	12.4	1.8 m	1.3 m	130	Sbc	vF,E,45"	19
								NGC 6701	GALXY	DRA	18 43.2	+60 39	12.1	1.5 m	1.3 m	25	SBa	pB,pS,mE,F* close f	19
								NGC 6702	GALXY	LYR	18 47.0	+45 42	12.2	1.9 m	1.5 m	65	E3	pF,S,IE	19
								NGC 6703	GALXY	LYR	18 47.3	+45 33	11.3	2.7 m	2.5 m		SO	B,S,R,mbM	19

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 6338	GALXY	DRA	17 15.4	+57 25	12.3	1.5 m	1 m	15	SO	F,S,R,vglbM	20
M 92			!					NGC 6341	GLOCL	HER	17 17.1	+43 08	6.5	11.2 m			IV	vB,vL,eCM,st 12...	20
								UGC 10822	GALXY	DRA	17 20.2	+57 55	9.9	33.5 m	18.9 m		dE3	13"-vF,L,pmE at 60X	20
								NGC 6411	GALXY	DRA	17 35.5	+60 49	11.9	2.3 m	1.8 m	70	Elliptical	vS,gbM	20

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					x			NGC 6058	PLNNB	HER	16 04.4	+40 41	13	25 s	20 s		3(2)	pF,vS,R,stellar	21
								NGC 6127	GALXY	DRA	16 19.2	+57 59	12	1.4 m	1.4 m		Elliptical	pF,vS,R	21
								NGC 6146	GALXY	HER	16 25.2	+40 54	12.5	1.3 m	1 m	75	Elliptical	cF,vS,R,bM	21
					x			NGC 6155	GALXY	HER	16 26.1	+48 22	12.2	1.3 m	0.9 m	145	Sc	F,pS,iF,gbM	21
					x			NGC 6166	GALXY	HER	16 28.6	+39 33	11.8	2.2 m	1.7 m	35	E2p	pF,S,vIE,vgmbM	21
								NGC 6173	GALXY	HER	16 29.8	+40 49	12.1	1.9 m	1.4 m	140	E3	cF,vS,R,bM	21
								NGC 6223	GALXY	DRA	16 43.1	+61 35	11.9	3.5 m	2.6 m	88	E-SO	F,S,R,mbM	21
			x	x				NGC 6229	GLOCL	HER	16 47.0	+47 32	9.4	3.8 m			IV	vB,L,R,disc,r	21
					x			NGC 6239	GALXY	HER	16 50.1	+42 44	12.4	2.4 m	1.1 m	118	SBb	vF,E,bi-N,np sf	21

Deep Sky Object List (1/2)

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			x	x				NGC 5866	GALXY	DRA	15 06.5	+55 46	9.9	6.5 m	3.1 m	128	Sa	vB,cL,pME146,gbM	22
								NGC 5874	GALXY	BOO	15 07.9	+54 45	12.4	2.3 m	1.6 m	53	SBbc	vF,pL,R,in tri of 3B*	22
								NGC 5875	GALXY	BOO	15 09.2	+52 32	12.4	2.3 m	1.2 m	145	Sb	pB,pL,IE	22
					x			NGC 5879	GALXY	DRA	15 09.8	+57 00	11.6	3.9 m	1.4 m	8	Sbc	cB,S,E,mbMRN,r	22
					x			NGC 5899	GALXY	BOO	15 15.1	+42 03	11.7	3.3 m	1.4 m	18	SBc	cB,pL,pmE,smbMN	22
			x					NGC 5905	GALXY	DRA	15 15.4	+55 31	11.7	3.8 m	2.3 m	135	SBb	pF,pS,iR	22
		x	x	x		87	x	NGC 5907	GALXY	DRA	15 15.9	+56 20	10.3	11.8 m	1.3 m	155	Sc	cB,vL,vmE155,vgBMN	22
			x					NGC 5908	GALXY	DRA	15 16.7	+55 25	11.8	3.3 m	1.4 m	154	Sb	pF,pS,R	22
								NGC 5963	GALXY	DRA	15 33.5	+56 34	12.5	3.3 m	2.6 m	55	Sc	pF,pS,iF	22
								NGC 5965	GALXY	DRA	15 34.0	+56 41	11.7	4.7 m	0.7 m	53	Sb	cF,cL,IE	22
								NGC 5966	GALXY	BOO	15 35.9	+39 46	12.2	1.8 m	1.1 m	90	Elliptical	vF,S,R,gbM,2st 8'f	22
				x				NGC 5982	GALXY	DRA	15 38.7	+59 21	11.1	3 m	2.1 m	110	E3p	cB,S,R,psbM,r	22
			x		x			NGC 5985	GALXY	DRA	15 39.6	+59 20	11.1	5.4 m	2.7 m	13	SBb Ring	pB,cL,IE,r	22

Deep Sky Object List (2/2)

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								NGC 5987	GALXY	DRA	15 39.9	+58 05	11.7	4.2 m	1.3 m	165	Sb	pF,cS	22

Deep Sky Object List (1/3)

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								NGC 5406	GALXY	CVN	14 00.3	+38 55	12.3	1.9 m	1.4 m	120	SBbc	F,pS,R,lbM	23
								NGC 5422	GALXY	UMA	14 00.7	+55 10	11.8	3.5 m	0.6 m	152	Sa	pB,S,pmE45,vsvmbMN	23
					x			NGC 5430	GALXY	UMA	14 00.8	+59 20	11.9	2.3 m	1.3 m	0	SBb	pB,S,IE,mbM	23
					x			NGC 5443	GALXY	UMA	14 02.2	+55 49	12.3	2.7 m	1 m	34	SBb	pF,L,E	23
					x			NGC 5447	GX+DN	UMA	14 02.5	+54 17	99.9				Pec	pB,S,R,gmbM,conn M101	23
					x			NGC 5448	GALXY	UMA	14 02.8	+49 10	11	3.8 m	2 m	115	SBa	pB,cL,vmE90,smbMN	23
M101			!					NGC 5457	GALXY	UMA	14 03.2	+54 21	7.9	28.5 m	28.3 m		SBc	pB,vL,iR,g,vsmbM,BSN	23
					x			NGC 5462	GX+DN	UMA	14 03.9	+54 22	99.9				Pec	pB,pL,iR,gbM,conn M101	23
				x				NGC 5473	GALXY	UMA	14 04.7	+54 54	11.4	2.2 m	1.7 m	160	E2	pB,S,R,gbM	23
			x	x				NGC 5474	GALXY	UMA	14 05.0	+53 40	10.8	5 m	4.5 m		Sc	pB,L,bM,P w M101	23
					x			NGC 5480	GALXY	UMA	14 06.4	+50 43	12.1	1.6 m	1 m	5	Sc	F,pS,vgbM,np of 2	23
					x			NGC 5481	GALXY	UMA	14 06.7	+50 43	12.3	1.4 m	1.1 m	115	E-SO	F,vS,smbM,stell,sf of 2	23
					x			NGC 5485	GALXY	UMA	14 07.2	+55 00	11.4	2.8 m	2.1 m	170	SO	cB,R,vgbM,f of 2	23

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.
					x			NGC 5520	GALXY	BOO	14 12.4	+50 21	12.4	2 m	1.1 m	66	Sb	F,S,IE,stellar	23
			x		x			NGC 5585	GALXY	UMA	14 19.8	+56 44	10.7	5.8 m	3.6 m	30	SBcd	pF,L,iR,vgmbM,r	23
					x			NGC 5582	GALXY	BOO	14 20.7	+39 42	11.6	2.8 m	1.7 m	25	Elliptical	pB,pS,R,bMFN,* sp	23
				x				NGC 5631	GALXY	UMA	14 26.6	+56 35	11.5	2 m	2 m		SO	B,S,R,psbMN	23
								NGC 5633	GALXY	BOO	14 27.5	+46 09	12.4	2.1 m	1.1 m	10	Sb	cB,pS,R,pglbM	23
					x			NGC 5660	GALXY	BOO	14 29.8	+49 37	11.9	2.7 m	2.6 m	90	SBc	pB,L,iR,vgbM	23
								NGC 5667	GALXY	DRA	14 30.4	+59 28	12.5	1.7 m	1.1 m	168	SBc	pB,pS,E0	23
								NGC 5673	GALXY	BOO	14 31.5	+49 57	12.1	2.4 m	0.6 m	136	SBc	F,S,cE,*15 np	23
								NGC 5678	GALXY	DRA	14 32.1	+57 55	11.3	3.3 m	1.4 m	5	SBb	B,L,IE0,vgmbM	23
				x				NGC 5676	GALXY	BOO	14 32.8	+49 27	11.2	3.9 m	1.8 m	47	Sbc	B,L,E45,pgbM,r	23
					x			NGC 5687	GALXY	BOO	14 34.9	+54 29	11.8	2.5 m	1.9 m	105	Sa	pF,S,iF,resolved,*10 f	23
				x				NGC 5689	GALXY	BOO	14 35.5	+48 44	11.9	3.3 m	1 m	85	SBO-a	cB,pL,E87,psmbM	23
								NGC 5707	GALXY	BOO	14 37.5	+51 34	12.5	2.5 m	0.5 m	35	Sab	B,pS,R	23



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.
								NGC 5739	GALXY	BOO	14 42.5	+41 51	12.1	1.9 m	1.8 m		SBO-a	pB,S,R,smbM,r,* nr	23
								NGC 5784	GALXY	BOO	14 54.3	+42 33	12.4	1.9 m	1.8 m		SO	pB,S,R,smbM,stellar	23
								NGC 5820	GALXY	BOO	14 58.7	+53 53	12.4	2.2 m	2 m		SO	B,E90,sbM,B D*f8',brightest of 3	23

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.
					x			NGC 4914	GALXY	CVN	13 00.7	+37 19	11.6	3.5 m	2.1 m	155	Elliptical	pB,cS,R,smbM,*17 np	24
								IC 4182	GALXY	CVN	13 05.8	+37 36	12.5	6 m	5.5 m		Sm	cF,vS,R,bM	24
	C 29	x	x	x		66	x	NGC 5005	GALXY	CVN	13 10.9	+37 03	9.8	5.8 m	2.9 m	65	SBbc	vB,vL,vmE66,vsbMN	24
					x			NGC 5023	GALXY	CVN	13 12.2	+44 02	12.3	5.8 m	0.8 m	28	Sc	pF,L,mE20,vlbM	24
								UGC 8320	GALXY	CVN	13 14.4	+45 55	12.4	3.8 m	1.5 m	150	Ir+		24
M 63			*					NGC 5055	GALXY	CVN	13 15.8	+42 02	8.6	12.6 m	7.5 m	105	Sbc	vB,L,pME120,vsmbM,B N	24
					x			NGC 5103	GALXY	CVN	13 20.5	+43 05	12.6	1.4 m	1 m	143	Pec	pB,cS,E	24
								NGC 5112	GALXY	CVN	13 21.9	+38 44	12.1	4 m	2.9 m	130	SBc	F,L,iR,vglbM	24
								NGC 5145	GALXY	CVN	13 25.2	+43 16	12.3	2 m	1.8 m	90	Sb	pB,vS,vIE,glbM	24
								NGC 5173	GALXY	CVN	13 28.4	+46 36	12.1	1 m	1 m		E0	F,vS,R,stellar	24
					x			NGC 5204	GALXY	UMA	13 29.6	+58 25	11.3	5 m	3 m	5	Sm	pB,cL,iR,gmbM,r	24
M 51			!!!*					NGC 5194	GALXY	CVN	13 29.9	+47 12	8.4	10.8 m	6.6 m	163	Sbc	!!!,Great spiral nebula	24
			*	x				NGC 5195	GALXY	CVN	13 30.0	+47 16	9.6	5.9 m	4.6 m	79	SBO-a	B,pS,IE,vgbM,inv M51	24

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 5198	GALXY	CVN	13 30.2	+46 40	11.8	2 m	1.7 m		E2	pF,pS,R,mbM	24
								NGC 5290	GALXY	CVN	13 45.3	+41 43	12.5	3.7 m	1 m	95	Sbc	cB,pL,E90,bMN	24
								NGC 5297	GALXY	CVN	13 46.4	+43 52	11.8	5.7 m	1 m	148	SBc	cB,L,pME142,gbM	24
					x			NGC 5308	GALXY	UMA	13 47.0	+60 58	11.4	3.7 m	0.7 m	60	SO	B,pL,mE57,psbM,BN	24
								NGC 5311	GALXY	CVN	13 48.9	+39 59	12.3	2.6 m	2.3 m	110	Sa	cF,cS,R,sbM,p of 2	24
			x	x				NGC 5322	GALXY	UMA	13 49.2	+60 11	10.2	6 m	4.1 m	95	E2	vB,pL,iR,psmbM	24
								NGC 5313	GALXY	CVN	13 49.7	+39 59	12	1.7 m	1 m	40	Sb	pB,pS,vIE,glbM,f of 2	24
								NGC 5320	GALXY	CVN	13 50.3	+41 22	12.1	3.6 m	1.7 m	18	SBc	cF,pL,R,gbM	24
								NGC 5326	GALXY	CVN	13 50.8	+39 34	11.9	2.2 m	1.2 m	137	Sab	cF,S,vIE,sbM	24
								NGC 5337	GALXY	CVN	13 52.4	+39 41	12.5	1.7 m	0.8 m	20	S pec	vF,S,iR,*7p	24
			x					NGC 5353	GALXY	CVN	13 53.4	+40 17	11	2.8 m	1.9 m	145	SO	pB,S,R,2nd of 4	24
			x					NGC 5354	GALXY	CVN	13 53.4	+40 18	11.4	2.2 m	2 m		SO	pF,S,R,3rd of 4	24
			x					NGC 5350	GALXY	CVN	13 53.4	+40 22	11.3	3.2 m	2.6 m	40	SBbc	cF,pL,bM,*7p,1st of 4	24

## 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.
								NGC 5351	GALXY	CVN	13 53.5	+37 55	12.1	2.9 m	1.6 m	100	SBb Ring	cF,L,IE90,vgbM	24
								NGC 5362	GALXY	CVN	13 54.9	+41 19	12.3	2.2 m	1 m	88	Sb	pB,pL,E	24
								NGC 5376	GALXY	UMA	13 55.3	+59 30	12.1	2.1 m	1.3 m	70	SBab	cB,pL,vIE,vgmbM	24
			x		x			NGC 5371	GALXY	CVN	13 55.7	+40 28	10.6	4.2 m	3.4 m	8	SBbc	pB,L,R,bMFN	24
								NGC 5389	GALXY	UMA	13 56.1	+59 44	12	3.6 m	1 m	3	SBO-a	pB,pL,E,mbMN	24
			x					NGC 5377	GALXY	CVN	13 56.3	+47 14	11.3	3.5 m	2 m	20	SBa	B,L,mE42,smbMN	24
								NGC 5378	GALXY	CVN	13 56.8	+37 48	12.5	2.7 m	2.2 m	90	SBa	pB,IE,vglbM	24
								NGC 5380	GALXY	CVN	13 56.9	+37 37	12.3	1.9 m	1.9 m		Sa	F,cS,R,smbM	24
			x		x			NGC 5383	GALXY	CVN	13 57.1	+41 51	11.4	2.6 m	2.2 m	85	SBb	cB,cL,R,gbM	24
			x					NGC 5395	GALXY	CVN	13 58.6	+37 25	11.4	2.7 m	1.3 m	167	Sbc	cF,cL,E15,lbM,sf of 2	24
			x					NGC 5394	GALXY	CVN	13 58.6	+37 27	13	1.7 m	0.8 m	0	SBb/P	cF,S,np of 2	24

## Deep Sky Object List (1/4)

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 4036	GALXY	UMA	12 01.5	+61 54	10.7	4 m	1.8 m	85	E6	vB,vL,E,vBN	25
					x			NGC 4047	GALXY	UMA	12 02.8	+48 38	12.2	1.2 m	1 m	105	Sbc	pB,pS,R,vsvBN	25
								Cr 285	OPNCL	UMA	12 03.0	+58 00	0.4	1400 m					25
			x	x				NGC 4051	GALXY	UMA	12 03.2	+44 32	10.2	5.3 m	4.4 m	135	SBbc	B,vL,E,vgvsmbM*11,vs eBN or *	25
								NGC 4068	GALXY	UMA	12 04.0	+52 35	12.5	3.2 m	1.7 m	30	lr	pF,S,stellar	25
			x	x				NGC 4085	GALXY	UMA	12 05.4	+50 21	12.4	2.5 m	0.8 m	78	SBc	B,pL,pmE78,vsbM	25
		x	x	x		46	x	NGC 4088	GALXY	UMA	12 05.6	+50 32	10.6	5.6 m	2.1 m	43	SBbc	B,cL,E55,lbM	25
			x		x			NGC 4096	GALXY	UMA	12 06.0	+47 29	10.9	6.5 m	1.8 m	20	SBc	pB,vL,mE32,sBN or bar	25
			x		x			NGC 4100	GALXY	UMA	12 06.1	+49 35	11.2	5.4 m	1.7 m	167	Sbc	pB,vL,vmE161,vgvlbM,v sBN	25
				x				NGC 4102	GALXY	UMA	12 06.4	+52 43	11.2	3.1 m	1.7 m	38	SBb Ring	B,pS,R,bM,BN,*12 sp	25
		x	x	x		59	x	NGC 4111	GALXY	CVN	12 07.0	+43 04	10.7	4.6 m	1 m	150	Sa	vB,pS,mE151,vsvBN	25
					x			NGC 4138	GALXY	CVN	12 09.5	+43 41	11.3	2.9 m	1.8 m	150	Sa	B,pL,IE,vgbM,* np	25
				x				NGC 4143	GALXY	CVN	12 09.6	+42 32	10.6	2.9 m	1.9 m	144	SBO	cB,R,vg,vsbMN	25

## Deep Sky Object List (2/4)

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 4145	GALXY	CVN	12 10.0	+39 53	11.3	5.9 m	4.1 m	100	SBcd	B,vL,vglbM	25
					x			NGC 4144	GALXY	UMA	12 10.0	+46 27	11.6	6.1 m	1.5 m	104	SBc	pF,cL,vmE109,vgbM,B M no BN	25
				x			x	NGC 4151	GALXY	CVN	12 10.5	+39 24	10.8	6.8 m	5.3 m	50	SBab Ring	vB,S,R,vsmbMBN,p of 2	25
					x	47		NGC 4157	GALXY	UMA	12 11.1	+50 29	11.4	6.7 m	1.2 m	66	SBb	pF,cL,vmE60	25
								NGC 4183	GALXY	CVN	12 13.3	+43 42	12.3	5.3 m	0.7 m	166	Sc	vF,cL,mE170,B center,no def. N	25
								NGC 4194	GALXY	UMA	12 14.2	+54 32	12.5	1.8 m	1.1 m	170	Ir Bar	pB,vS,vsbM *12	25
					x			NGC 4217	GALXY	CVN	12 15.8	+47 05	11.2	4.8 m	1.5 m	50	Sb	pF,L,mE45,**n,p of 2	25
								NGC 4218	GALXY	CVN	12 15.8	+48 08	12.5	0.9 m	0.5 m	142	Sa	vF,vS	25
					x			NGC 4220	GALXY	CVN	12 16.2	+47 53	11.4	3.9 m	1.5 m	141	Sa	cB,pL,pmE134,psbM,sB N	25
	C 26	x	x		x	61	x	NGC 4244	GALXY	CVN	12 17.5	+37 48	10.4	15.9 m	1.8 m	48	Sc	pB,vL,eE43,vgbM,vsBN or *?	25
								NGC 4242	GALXY	CVN	12 17.5	+45 37	10.8	5.2 m	4 m	25	SBd	vF,cL,iR,vgbM,r	25
					x			NGC 4248	GALXY	CVN	12 17.8	+47 25	12.5	2.9 m	1.2 m	108	SBb	vF,S,pmE,psbM	25
M106			*	x				NGC 4258	GALXY	CVN	12 19.0	+47 18	8.4	17.4 m	6.6 m	150	SBbc	!,vB,vL,vmE0,sbMBN	25

## Deep Sky Object List (3/4)

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 4271	GALXY	UMA	12 19.5	+56 44	12.6	1.5 m	1.3 m	55	E-SO	pB,pL,iF	25
					x			NGC 4290	GALXY	UMA	12 20.8	+58 06	11.8	2.2 m	1.6 m	90	SBab Ring	pB,L,R,gmbM	25
M 40			x					Winnecke 4	2STAR	UMA	12 21.9	+58 06	9					Neb D*	25
								NGC 4335	GALXY	UMA	12 23.0	+58 27	12.4	1.9 m	1.5 m	145	Elliptical	pB,S,E,gbM	25
				x				NGC 4346	GALXY	CVN	12 23.5	+47 00	11.1	3.2 m	1.3 m	99	SBO	vF,S,mE100,vsmbMBN	25
								NGC 4357	GALXY	CVN	12 24.0	+48 47	12.4	3.7 m	1.3 m	77	Sbc	F,pS,gbM,=4381?	25
					x			NGC 4369	GALXY	CVN	12 24.6	+39 23	11.7	2.4 m	2.4 m		Sa	cB,S,R,mbMN,r	25
								NGC 4389	GALXY	CVN	12 25.6	+45 41	11.7	2.6 m	1.3 m	105	SB/P	pB,pL,iE,vglbM,sB narrow bar	25
								UGC 7577	GALXY	CVN	12 27.6	+43 29	12.3	3.9 m	2.5 m	130	Ir+		25
	C 21	x	*	x		62	x	NGC 4449	GALXY	CVN	12 28.2	+44 06	9.6	6.2 m	4.9 m	45	Ir	vB,cL,mE,D or bifid,rrr,*F,B center w N or *	25
								UGC 7599	GALXY	CVN	12 28.5	+37 13	12.3	4.3 m	2.4 m	130	Sm		25
								NGC 4460	GALXY	CVN	12 28.8	+44 52	11.3	4.2 m	1.3 m	40	SBO-a	B,pL,E123,psbM	25

## Deep Sky Object List (4/4)

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 4485	GALXY	CVN	12 30.5	+41 42	11.9	2.4 m	1.8 m	15	lr	B,pS,iR,np of 2	25
		x	x	x		63	x	NGC 4490	GALXY	CVN	12 30.6	+41 39	9.8	6.4 m	3.2 m	125	SBcd	vB,vL,mE130,r,sf of 2	25
								NGC 4500	GALXY	UMA	12 31.4	+57 58	12.5	1.6 m	1.1 m	130	SBa	B,cS,E,pgbM,*9 f 50"	25
								UGC 7699	GALXY	CVN	12 32.8	+37 37	12.5	3.8 m	1.0 m	32	SBc		25
		x	x		x	48	x	NGC 4605	GALXY	UMA	12 40.0	+61 36	10.3	5.9 m	2.4 m	125	SBc/P	B,L,vmE118,glbM	25
			x	x				NGC 4618	GALXY	CVN	12 41.6	+41 09	10.8	4.2 m	3.4 m	25	SB	B,L,E,mbM,curved branch n	25
								NGC 4625	GALXY	CVN	12 41.9	+41 16	12.4	2.3 m	1.9 m	160	SB pec	pF,S,R	25
M 94			*					NGC 4736	GALXY	CVN	12 50.9	+41 07	8.2	12.3 m	10.8 m	105	Sb Ring	vB,L,iR,vsymbM,BN,r	25
				x				NGC 4800	GALXY	CVN	12 54.6	+46 32	11.5	1.6 m	1.2 m	25	Sb	pB,cS,R,psbM,*14 p,vBN	25
								NGC 4814	GALXY	UMA	12 55.4	+58 21	12	3.3 m	2.4 m	135	SB/P	B,pS,vIE,vgbM	25
								NGC 4868	GALXY	CVN	12 59.2	+37 19	12.2	1.5 m	1.4 m		Sab	pB,S,R,mbM	25