

Messier Bennett & Caldwell Objects for the VicSouth Desert Spring Starparty

36° 27' 16" S 141° 40' 07" E

Selection criteria: objects south of +45° that are listed in the Messier and/or Bennett and/or Caldwell catalogues.
 (note – a few bright southern sky objects are in none of these catalogues)
 280 objects in total; all observable with small telescopes.

Headings:

NGCIC = NGC number (N****) or IC number (I****), ~~~~~ if no NGC/IC number
 Mess = Messier Catalogue number
 Ben = Bennett Catalogue number (ref: Jack Bennett, Astronomical Society of South Africa).
 Cald = Caldwell Catalog number (ref: Sky & Telescope 2001)
 type = ast=asterism, dkn=dark nebula, glb=globular cluster, glx=galaxy,
 neb=bright nebula, ocl=open cluster, pln=planetary nebula, stc=starcloud
 RA = right ascension hh mm ss (epoch 2000)
 Dec = declination dd mm ss (epoch 2000)
 Vmag = visual magnitude
 diam1 = diameter, or longest dimension of noncircular objects, in arcminutes
 diam2 = shortest dimension of noncircular objects, in arcminutes
 notes = including alternative names

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SORTED BY DECLINATION (SOUTH TO NORTH) – see below for Sorted by RA

NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N3195	~	~	C109	pln	10	9	21	-80	51	31	11.6	0.7	0.5	
N4372	~	B50	C108	glb	12	25	46	-72	39	28	7.2	5		
N6101	~	B74	C107	glb	16	25	48	-72	12	5	9.2	5		
N_104	~	B2	C106	glb	0	24	5	-72	4	52	4.3	30		47 Tucanae
N4833	~	B56	C105	glb	12	59	35	-70	52	32	7.4	13		
N_362	~	B7	C104	glb	1	3	14	-70	50	54	6.8	13		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N2070	~	B35	C103	neb	5	38	42	-69	6	3	4.3	40	25	Tarantula Nebula in Large Magellanic Cloud
N2214	~	B36	~	ocl	6	12	57	-68	15	37	10.9	3.6		
N6362	~	B95	~	glb	17	31	55	-67	2	54	8.5	10		
N1313	~	B13	~	glx	3	18	16	-66	29	52	9.1	9.2	7.2	
N1818	~	B30	~	ocl	5	4	14	-66	26	6	9.7	3.4		In Large Magellanic Cloud
N1763	~	B27	~	neb	4	56	40	-66	24	44	6.5	5	3	In Large Magellanic Cloud
N1783	~	B28	~	glb	4	59	9	-65	59	10	11	3		In Large Magellanic Cloud
N5189	~	B62	~	pln	13	33	33	-65	58	27	9	2.33		
N1866	~	B33	~	ocl	5	13	39	-65	27	54	9.7	4.5		In Large Magellanic Cloud
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N2808	~	B41	~	glb	9	12	3	-64	51	50	6.2	14		
I_2602	~	~	C102	ocl	10	42	56	-64	23	42	1.8	80		Theta Car cluster, Southern Pleiades
N6744	~	B120	C101	glx	19	8	44	-63	43	49	8.3	20.1	12.9	
~~~~~	~	B47	~	ocl	11	19	39	-63	30	0	8.5	4		Melotte 105
I_2944	~	~	C100	ocl	11	35	47	-63	1	11	5	35		Lambda Centauri cluster
~~~~~	~	~	C99	dkn	12	51		-63	0		~	350	280	Coal Sack, Emu's Head
N4609	~	~	C98	ocl	12	42	18	-62	59	42	6.9	5		
N3766	~	~	C97	ocl	11	36	14	-61	36	30	5.3	14		Pearl cluster
N2516	~	~	C96	ocl	7	58	4	-60	45	12	3.8	28		
N5617	~	B65	~	ocl	14	29	44	-60	42	42	6.3	10		
N6025	~	~	C95	ocl	16	3	17	-60	25	54	5.1	15		
N4755	~	~	C94	ocl	12	53	39	-60	21	42	4.2	10		Jewel Box
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6752	~	B121	C93	glb	19	10	52	-59	58	56	5.3	20		
N3372	~	~	C92	neb	10	45	8	-59	52	0	2.5	110	110	Eta Carinae Nebula
N1672	~	B26	~	glx	4	45	42	-59	14	53	9.7	6.7	5.6	
N3532	~	~	C91	ocl	11	5	39	-58	45	12	3	60	40	Football cluster
N2867	~	~	C90	pln	9	21	25	-58	18	42	9.7	0.4		
N6087	~	~	C89	ocl	16	18	50	-57	56	6	5.4	12		Norma cluster
N6005	~	B72	~	ocl	15	55	48	-57	26	12	10.7	3		
N5999	~	B71	~	ocl	15	52	8	-56	28	24	9	3		
N1553	~	B24	~	glx	4	16	10	-55	46	49	9	4.5	2.8	
N3960	~	B48	~	ocl	11	50	33	-55	40	24	8.3	7		
N5823	~	~	C88	ocl	15	5	30	-55	36	12	7.9	12		
N1549	~	B23	~	glx	4	15	45	-55	35	31	9.6	4.9	4.1	
N1261	~	B11	C87	glb	3	12	16	-55	12	57	8.4	6.8		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N1566	~	B25	~	glx	4	20	1	-54	56	17	9.4	8.2	6.5	
N1617	~	B25a	~	glx	4	31	39	-54	36	6	10.5	4.3	2.1	
N6397	~	B98	C86	glb	17	40	42	-53	40	26	5.5	25		
~~~~~	~	B72a	~	ocl	16	0	50	-53	32	0	9.5	9		Trumpler 23
I_2391	~	~	C85	ocl	8	40	40	-53	3	24	2.6	55		Omicron Velorum cluster
N6253	~	B84	~	ocl	16	59	5	-52	42	30	10.2	4		
N6584	~	B107	~	glb	18	18	38	-52	12	57	9	7		

N5286	~	B64	C84	glb	13	46	27	-51	22	30	7.4	8		
N5927	~	B69	~	glb	15	28	0	-50	40	23	8	6		
N2972	~	B41a	~	ocl	9	40	13	-50	19	24	9.9	5		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6167	~	B79a	~	ocl	16	34	34	-49	46	18	6.7	7		
N4945	~	B57	C83	glx	13	6	34	-49	41	28	8.6	19.8	4	
N4976	~	B58	~	glx	13	8	37	-49	30	22	10.1	5.6	3	
N6134	~	B76	~	ocl	16	27	46	-49	9	6	7.2	6		
N6193	~	~	C82	ocl	16	41	20	-48	45	48	5.2	14		
N6352	~	B94	C81	glb	17	25	29	-48	25	21	8	8		
N5139	~	B61	C80	glb	13	26	47	-47	28	53	3.6	35	Omega Centauri	
N1433	~	B21	~	glx	3	42	1	-47	13	19	9.8	6.5	5.9	
N3201	~	B44	C79	glb	10	17	37	-46	24	45	6.9	18		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6388	~	B96	~	glb	17	36	17	-44	44	8	6.8	10.4		
N6216	~	B81	~	ocl	16	49	24	-44	43	42	10.1	4		
N6496	~	B100	~	glb	17	59	4	-44	16	0	8.6	5.6		
N6541	~	B104	C78	glb	18	8	2	-43	42	57	6.3	13		
N6192	~	B79b	~	ocl	16	40	23	-43	22	0	8.5	9		
N1512	~	B21a	~	glx	4	3	54	-43	20	58	10.2	8.9	5.6	
N5128	~	B60	C77	glx	13	25	28	-43	1	8	6.6	12	Centaurus A, dust lane	
N2671	~	B40a	~	ocl	8	46	12	-41	52	42	11.6	5		
N6231	~	~	C76	ocl	16	54	10	-41	49	30	2.6	12		
N1291	~	B12	~	glx	3	17	18	-41	6	29	8.5	11	9.5	
N6124	~	~	C75	ocl	16	25	20	-40	39	12	5.8	40		
N3132	~	B43	C74	pln	10	7	2	-40	26	11	8.2	1.4	0.9	
N1851	~	B32	C73	glb	5	14	7	-40	2	48	7.1	11	Eight-burst Nebula, Southern Ring	
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N7410	~	B129a	~	glx	22	55	1	-39	39	42	10.4	5.2	1.6	
N6318	~	B91a	~	ocl	17	16	11	-39	25	30	11	5		
N 55	~	B1	C72	glx	0	14	54	-39	11	57	7.8	32	5	
N6139	~	B78	~	glb	16	27	40	-38	50	57	9.1	8		
N2477	~	~	C71	ocl	7	52	10	-38	31	48	5.8	27		
N1792	~	B29	~	glx	5	5	14	-37	58	49	10	5.2	2.6	
N5986	~	B70	~	glb	15	46	4	-37	47	9	7.6	9		
N 300	~	B6	C70	glx	0	54	53	-37	41	3	8.8	22	15	
N1808	~	B31	~	glx	5	7	43	-37	30	48	9.9	6.5	3.9	
N6302	~	~	C69	pln	17	13	44	-37	6	12	9.6	1.48		
N6441	~	B99	~	glb	17	50	13	-37	3	3	7.2	9.6		
N1316	~	B14	~	glx	3	24	58	-37	0	32	8.4	11	7.2	
N6729	~	~	C68	neb	19	1	55	-36	57	30	9.5	25	20	
N6723	~	B119	~	glb	18	59	33	-36	37	54	6.8	13		
l 1459	~	B129b	~	glx	22	57	11	-36	27	45	10	5.2	1.8	
N1365	~	B16	~	glx	3	33	36	-36	8	25	9.5	11	6.2	
N2298	~	B37	~	glb	6	48	59	-36	0	15	9.3	5		
N1404	~	B20	~	glx	3	38	52	-35	35	36	10	3.3	3	
N1387	~	B18	~	glx	3	36	57	-35	30	22	10.8	2.8	2.6	
N1399	~	B19	~	glx	3	38	29	-35	27	1	9.4	6.9	6.5	
N1380	~	B17	~	glx	3	37	9	-35	11	41	9.9	4	2.4	
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6475	M7	~	~	ocl	17	53	51	-34	47	36	3.3	75		
N1350	~	B14a	~	glx	3	31	8	-33	37	43	10.4	5.9	3.1	
N5824	~	B67	~	glb	15	3	59	-33	4	8	9.1	7		
N6652	~	B113	~	glb	18	35	46	-32	59	28	8.5	6		
N3621	~	B46	~	glx	11	18	16	-32	48	50	9.7	12	7	
N7793	~	B130	~	glx	23	57	50	-32	35	28	9	9.3	6.3	
N6637	M69	B112	~	glb	18	31	23	-32	20	52	7.4	7.1		
N6681	M70	B115	~	glb	18	43	13	-32	17	27	7.8	8		
N6405	M6	~	~	ocl	17	40	20	-32	15	12	4.2	33		
N6569	~	B106	~	glb	18	13	39	-31	49	35	8.4	6.4		
N5253	~	B63a	~	glx	13	39	56	-31	38	26	10.4	5	2	
N2243	~	B36a	~	ocl	6	29	34	-31	17	0	9.4	8.3		
N2997	~	B41b	~	glx	9	45	39	-31	11	27	9.5	7	9	
N6809	M55	B122	~	glb	19	40	0	-30	57	44	6.3	19		
N6715	M54	B118	~	glb	18	55	3	-30	28	47	7.7	12		
N6624	~	B109	~	glb	18	23	41	-30	21	40	7.6	8.8		
N1097	~	B10	C67	glx	2	46	10	-30	13	43	10	9.4	6.6	
N6266	M62	B85	~	glb	17	1	13	-30	6	45	6.4	15		
N2489	~	B38	~	ocl	7	56	15	-30	3	48	7.9	5		
N6528	~	B102	~	glb	18	4	50	-30	3	21	9.6	5		
N6522	~	B101	~	glb	18	3	35	-30	2	6	9.9	9.4		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N2627	~	B40	~	ocl	8	37	15	-29	57	18	8.4	9		
N5236	M83	B63	~	glx	13	37	0	-29	51	51	7.5	13	11	
N6304	~	B90	~	glb	17	14	32	-29	27	43	8.3	8		
N 613	~	B8	~	glx	1	34	18	-29	25	8	9.9	5.5	4.2	
N3923	~	B49	~	glx	11	51	2	-28	48	23	9.8	6	4	

N6316	~	B91	~	glb	17	16	37	-28	8	23	8.1	5.4		
N5061	~	B59	~	glx	13	18	5	-26	50	12	10.4	3		
N4590	M68	B51	~	glb	12	39	28	-26	44	32	7.3	11		
N_288	~	B5	~	glb	0	52	45	-26	35	6	8.1	13		
N6293	~	B89	~	glb	17	10	10	-26	34	56	8.3	8.2		
N5694	~	~	C66	glb	14	39	37	-26	32	18	10.2	3.6		
N6121	M4	B75	~	glb	16	23	35	-26	31	35	5.4	36		
N2467	~	B37a	~	neb	7	52	26	-26	26	12	7	16		
N1398	~	B19a	~	glx	3	38	52	-26	20	15	9.8	7.2	5.2	
N6273	M19	B86	~	glb	17	2	38	-26	16	4	6.8	17		
N6144	~	B77	~	glb	16	27	14	-26	1	26	9	7		
N6553	~	B105	~	glb	18	9	17	-25	54	30	8.3	9.2		
N1360	~	B15	~	pln	3	33	15	-25	52	19	9.4	6.42		
N6638	~	B111	~	glb	18	30	56	-25	29	56	9.2	7.3		
N_253	~	B4	C65	glx	0	47	33	-25	17	18	7.3	29	6.8	Silver Coin galaxy, Sculptor galaxy
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6544	~	B103	~	glb	18	7	20	-24	59	54	7.5	9.2		
N2362	~	~	C64	ocl	7	18	41	-24	57	18	4.4	8	8	
N6626	M28	B110	~	glb	18	24	33	-24	52	7	6.9	13.8		
N6284	~	B87	~	glb	17	4	29	-24	45	51	8.9	6.2		
N1904	M79	B34	~	glb	5	24	11	-24	31	29	7.7	9.6		
N6523	M8	~	~	neb	18	3	41	-24	22	48	4.5	45	30	Lagoon Nebula
N6656	M22	B114	~	glb	18	36	24	-23	54	17	5.2	32		
N2447	M93	~	~	ocl	7	44	36	-23	52		6.2	22		
N6642	~	B112a	~	glb	18	31	54	-23	28	35	8.9	5.8		
N7099	M30	B128	~	glb	21	40	22	-23	10	45	6.9	12		
N6093	~	B73	~	glb	16	17	3	-22	58	32	7.3	10		
N6514	M20	~	~	neb	18	2	42	-22	58	18	5.8	20		Trifid Nebula
N6287	~	B88	~	glb	17	5	9	-22	42	25	9.3	4.8		
N6531	M21	~	~	ocl	18	4	13	-22	29	24	5.9	16		
N6235	~	B82	~	glb	16	53	25	-22	10	34	8.9	5		
N6864	M75	B124	~	glb	20	6	5	-21	55	19	8.6	6.8		
N5068	~	B59a	~	glx	13	18	55	-21	2	20	10	7		
N5897	~	B68	~	glb	15	17	24	-21	0	37	8.4	11		
N7293	~	B129	C63	pln	22	29	38	-20	50	13	7.3	14		Helix Nebula
N_247	~	B3	C62	glx	0	47	9	-20	45	37	8.9	19.2	5.5	
N2287	M41	~	~	ocl	6	46	1	-20	45	24	4.5	40		
N1232	~	B10a	~	glx	3	9	45	-20	34	46	9.8	7.4	6.5	
N6440	~	B98a	~	glb	17	48	53	-20	21	39	9.3	4.4		
N6445	~	B98b	~	pln	17	49	15	-20	0	36	11.2	0.73		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
I_4725	M25	~	~	ocl	18	31	48	-19	6	48	4.6	26		
N6494	M23	~	~	ocl	17	56	48	-19	1		5.5	27		
N4038/4039	~	~	C61	glx	12	1	54	-18	52	28	10.5	5	3	Antennae Galaxies (interacting)
N3242	~	B45	C59	pln	10	24	46	-18	38	34	8.6	0.4		Ghost of Jupiter
N6333	M9	B92	~	glb	17	19	12	-18	30	58	7.8	12		
N6603	M24	B107a	~	stc	18	18	26	-18	24	24	4.6	110	45	bright part of star cloud
N6356	~	B93	~	glb	17	23	35	-17	48	52	8.2	10		
N6613	M18	~	~	ocl	18	19	59	-17	6	7	6.9	7		
N6618	M17	B108	~	neb	18	20	47	-16	10	18	5.6	25	15	Omega Nebula
N2360	~	~	C58	ocl	7	17	43	-15	38	30	7.2	13		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N2437	M46	~	~	ocl	7	41	48	-14	49		6.1	27		
N6822	~	~	C57	glx	19	44	57	-14	48	24	8.7	15	14.2	Barnard's galaxy
N2422	M47	~	~	ocl	7	36	36	-14	30		4.4	30		
N6818	~	B123	~	pln	19	43	58	-14	9	10	9.3	0.77		Little Gem
N6611	M16	~	~	ocl	18	18	48	-13	48	24	6	8		Eagle Nebula
N6171	M107	B79	~	glb	16	32	32	-13	3	12	7.8	13		
N1535	~	B22	~	pln	4	14	16	-12	44	22	9.6	0.85		
N6994	M73	~	~	ocl	20	58	56	-12	38	7	8.9	1.4		
N6981	M72	B125	~	glb	20	53	28	-12	32	14	9.2	6.6		
N_246	~	~	C56	pln	0	47	3	-11	52	19	10.9	4.1		
N4594	M104	B52	~	glx	12	39	59	-11	37	23	8	9	4	Sombrero galaxy
N7009	~	B126	C55	pln	21	4	11	-11	21	50	8	0.58		Saturn Nebula
N2506	~	B39	C54	ocl	8	0	1	-10	46	12	7.6	7		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6694	M26	~	~	ocl	18	45	18	-9	23	0	8	10		
N6712	~	B117	~	glb	18	53	4	-8	42	19	8.1	9.8		
N4699	~	B54	~	glx	12	49	2	-8	39	53	9.5	4	3	
N2323	M50	~	~	ocl	7	3	12	-8	20		5.9	16		
N3115	~	B42	C53	glx	10	5	14	-7	43	8	8.9	7	2	Spindle Galaxy
N6705	M11	B116	~	ocl	18	51	5	-6	16	12	5.8	11		Wild Duck cluster
N5634	~	B66	~	glb	14	29	37	-5	58	37	9.5	5		
N4697	~	B53	C52	glx	12	48	36	-5	48	2	11	4	3	
N2548	M48	~	~	ocl	8	13	48	-5	48		5.8	54		
N1976	M42	~	~	neb	5	35	16	-5	23	25	3.6	65	60	Orion Nebula
N1982	M43	~	~	neb	5	35	31	-5	16	3	6	20	15	

NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6254	M10	B83	~	glb	16	57	9	-4	5	56	6.6	20		
N6402	M14	B97	~	glb	17	37	36	-3	14	43	7.6	11		
N6218	M12	B80	~	glb	16	47	14	-1	56	52	6.1	16		
N4753	~	B55	~	glx	12	52	22	-1	12	0	10	6	3	
N1068	M77	B9	~	glx	2	42	41	0	0	48	8.9	7.1	6	Cetus A
N2068	M78	~	~	neb	5	46	45	0	4	48	8	8	6	
N7089	M2	B127	~	glb	21	33	27	0	49	24	6.6	16		
N5904	M54	~	~	glb	15	18	34	2	4	58	5.7	17.4		the core of Sagittarius Dwarf Elliptical galaxy??
I_1613	~	~	C51	glx	1	4	59	2	9	11	9.9	16	14	
N4303	M61	~	~	glx	12	21	54	4	28		9.7	6	5.5	
N2244	~	~	C50	ocl	6	31	56	4	56	35	4.8	24		within Rosette Nebula
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N2237	~	~	C49	neb	6	30	54	5	3	0	9	80		Rosette Nebula
N2775	~	~	C48	glx	9	10	20	7	2	16	11	4	3	
N6934	~	~	C47	glb	20	34	11	7	24	17	8.9	8		
N4472	M49	~	~	glx	12	29	48	8	0		8.4	2.2	1.8	
N2261	~	~	C46	neb	6	39	10	8	44	40	9	2		Hubble's variable nebula
N5248	~	~	C45	glx	13	37	32	8	53	8	11	6	5	
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N4649	M60	~	~	glx	12	43	42	11	33		8.8	3	2	
N4621	M59	~	~	glx	12	42	0	11	39		9.8	1.4	1	
N3351	M95	~	~	glx	10	44	0	11	42		9.7	7	4	
N2682	M67	~	~	ocl	8	50	24	11	49		6.9	30		
N3368	M96	~	~	glx	10	46	48	11	49		9.2	7.5	5	
N4579	M58	~	~	glx	12	37	42	11	49		9.8	5	4	
N7078	M15	~	~	glb	21	29	58	12	10	2	6.3	18		
N7479	~	~	C44	glx	23	4	57	12	19	20	10.9	4	3.1	
N4486	M87	~	~	glx	12	30	48	12	24		8.6	6	5	
N4552	M89	~	~	glx	12	35	42	12	33		9.8	1.1		
N3379	M105	~	~	glx	10	47	48	12	35		9.3	4.6	4	
N4374	M84	~	~	glx	12	25	6	12	53		9.3	1.3	1.2	
N4406	M86	~	~	glx	12	26	12	12	57		9.2	1.5	1.2	
N3627	M66	~	~	glx	11	20	12	12	59		9	7.6	3.3	
N3623	M65	~	~	glx	11	18	54	13	5		9.3	9	2	
N4569	M90	~	~	glx	12	36	48	13	10		9.5	11	3	
N4501	M88	~	~	glx	12	32	0	14	25		9.5	6	3	
N4254	M99	~	~	glx	12	18	48	14	25		9.8	6	5	Pinwheel Galaxy
N4548	M91	~	~	glx	12	35	24	14	30		10.2	5	4	
N4192	M98	~	~	glx	12	13	49	14	54		10.1	10.5	2.6	
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N_628	M74	~	~	glx	1	36	42	15	47	1	9.1	10.5	9.5	
N4321	M100	~	~	glx	12	22	54	15	49		9.4	8.8	6	
~~~~	~	~	C41	ocl	4	26	54	15	52	0	1	330		Hyades
N7814	~	~	C43	glx	0	3	15	16	8	43	10.8	5.5	2.3	
N7006	~	~	C42	glb	21	1	29	16	11	15	10.6	3.6		
N5024	M53	~	~	glb	13	12	55	18	10	9	7.6	12.6		
N4382	M85	~	~	glx	12	25	24	18	11		9.2	7.5	6.5	
N3626	~	~	C40	glx	11	20	4	18	21	25	10.8	3	2	
N6838	M71	~	~	glb	19	53	46	18	46	42	8.4	7.2		
N2632	M44	~	~	ocl	8	40	6	19	59		3.1	95		"Praesepe", Beehive cluster
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N2392	~	~	C39	pln	7	29	11	20	54	42	10	0.8		Eskimo Nebula
N4826	M64	~	~	glx	12	56	42	21	41		8.5	10	3.8	Blackeye Galaxy
N1952	M1	~	~	neb	5	34	30	22	1		8.4	6		Crab Nebula
N6853	M27	~	~	pln	19	59	36	22	43		8.1	15.2		Dumbbell Nebula
N2168	M35	~	~	ocl	6	8	35	24	20		5.1	28		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N4565	~	~	C38	glx	12	35	35	25	51	0	10.4	16	2	Needle Galaxy
N6885	~	~	C37	ocl	20	11	58	26	29	0	8.1	20		
~~~~	M45	~	~	ocl	3	47		27	7		1.6	110		Pleiades
N4559	~	~	C36	glx	12	36	54	27	44	55	10.4	11	4	
N4889	~	~	C35	glx	13	0	8	27	58	35	12.9	3	2	
N5272	M3	~	~	glb	13	42	11	28	22	32	6.2	16.2		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6779	M56	~	~	glb	19	16	36	30	11	5	8.3	7.1		
N6960	~	~	C34	neb	20	45	58	30	35	42	9.5	70	6	western part of Veil Nebula
N_598	M33	~	~	glx	1	33	51	30	39	37	5.5	68.7	41.6	Triangulum galaxy
N6992	~	~	C33	neb	20	56	19	31	44	36	9.5	70	6	eastern part of Veil Nebula
N4631	~	~	C32	glx	12	42	8	32	32	29	9.5	3	15	Whale Galaxy
N2099	M37	~	~	ocl	5	52	4	32	33		5.6	24		
N6720	M57	~	~	pln	18	53	36	33	2		9	2.5		Ring Nebula
N1960	M36	~	~	ocl	5	36	6	34	8		6	12		
I_405	~	~	C31	neb	5	16	29	34	21	24	6	19	30	

N7331	~	~	C30	glx	22	37	4	34	24	57	9.5	10.2	4.2	
<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>	<b>RA</b>			<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
N1912	M38	~	~	ocl	5	28	42	35	50		6.4	21		
N6205	M13	~	~	glb	16	41	42	36	27	37	5.8	16.6		
N5005	~	~	C29	glx	13	10	56	37	3	30	10.6	6	3	
N_752	~	~	C28	ocl	1	57	41	37	47	6	5.7	75		
N4244	~	~	C26	glx	12	17	30	37	48	27	10.3	16	2	
N6888	~	~	C27	neb	20	12	34	38	26	54	7.4	18	12	Crescent Nebula
N6913	M29	~	~	ocl	20	23	54	38	32		6.6	7		
N2419	~	~	C25	glb	7	38	8	38	52	54	9	6		
<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>	<b>RA</b>			<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
N_221	M32	~	~	glx	0	42	42	40	51	54	8.1	8.5	6.5	satellite galaxy of N_224 (M31)
N4736	M94	~	~	glx	12	50	54	41	7		8.2	14	13	
N_224	M31	~	~	glx	0	42	44	41	16	8	3.5	180	60	Andromeda galaxy
N1275	~	~	C24	glx	3	19	48	41	30	42	12.6	2		Perseus A
N_205	M110	~	~	glx	0	40	22	41	41	7	7.9	19.5	11.5	satellite galaxy of N_224 (M31)
N5055	M63	~	~	glx	13	15	48	42	2		8.6	13	8	Sunflower Galaxy
N_891	~	~	C23	glx	2	22	33	42	20	54	10	13	2.5	
N7662	~	~	C22	pln	23	25	54	42	32	6	8.5	0.62		Blue Snowball
N1039	M34	~	~	ocl	2	42	0	42	47		5.2	35		
N6341	M92	~	~	glb	17	17	7	43	8	11	6.4	11.2		
N4449	~	~	C21	glx	12	28	11	44	5	38	10	6	4	
N7000	~	~	C20	neb	20	58	47	44	19	48	4	120	100	North America Nebula

## SORTED BY RIGHT ASCENSION – see above for Sorted by Dec

<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>	<b>RA</b>			<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
N7814	~	~	C43	glx	0	3	15	16	8	43	10.8	5.5	2.3	
N_55	~	B1	C72	glx	0	14	54	-39	11	57	7.8	32	5	
N_104	~	B2	C106	glb	0	24	5	-72	4	52	4.3	30		47 Tucanae
N_134	~	~	~	glx	0	30	22	-33	14	45	10.4	8.4	1.8	
N_157	~	~	~	glx	0	34	47	-8	23	46	10.4	3.5	2.4	
N_205	M110	~	~	glx	0	40	22	41	41	7	7.9	19.5	11.5	satellite galaxy of N_224 (M31)
N_221	M32	~	~	glx	0	42	42	40	51	54	8.1	8.5	6.5	satellite galaxy of N_224 (M31)
N_224	M31	~	~	glx	0	42	44	41	16	8	3.5	180	60	Andromeda galaxy
N_246	~	~	C56	pln	0	47	3	-11	52	19	10.9	4.1		
N_247	~	B3	C62	glx	0	47	9	-20	45	37	8.9	19.2	5.5	
N_253	~	B4	C65	glx	0	47	33	-25	17	18	7.3	29	6.8	Silver Coin galaxy, Sculptor galaxy
N_288	~	B5	~	glb	0	52	45	-26	35	6	8.1	13		
N_292	~	~	~	glx	0	53		-72	48		2.7	320	185	The Small Magellanic Cloud
N_300	~	B6	C70	glx	0	54	53	-37	41	3	8.8	22	15	
N_330	~	~	~	ocl	0	56	19	-72	27	45	9.6	1.4		in Small Magellanic Cloud
N_346	~	~	~	neb	0	59	5	-72	10	36	10.3	5		in Small Magellanic Cloud
<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>	<b>RA</b>			<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
~~~~	~	~	~	glx	1	0	9	-33	43		8.8	40	30.8	
~~~~	~	~	~	glx	1	0	9	-33	42	31	10.1	40	31	Sculptor Dwarf galaxy
N_362	~	B7	C104	glb	1	3	14	-70	50	54	6.8	13		
I_1613	~	~	C51	glx	1	4	59	2	9	11	9.9	16	14	
N_404	~	~	~	glx	1	9	27	35	43	5	10	3.5	3.5	
N_488	~	~	~	glx	1	21	47	5	15	23	10.4	5.4	3.9	
N_524	~	~	~	glx	1	24	48	9	32	21	10.4	2.8	2.8	
N_598	M33	~	~	glx	1	33	51	-30	39	37	5.5	68.7	41.6	Triangulum galaxy
N_613	~	B8	~	glx	1	34	18	-29	25	8	9.9	5.5	4.2	
N_628	M74	~	~	glx	1	36	42	15	47	1	9.1	10.5	9.5	
N_720	~	~	~	glx	1	53	0	-13	44	19	10.2	4.7	2.4	
N_752	~	~	C28	ocl	1	57	41	37	47	6	5.7	75		
N_772	~	~	~	glx	1	59	20	19	0	29	10.3	7.2	4.3	
<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>	<b>RA</b>			<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
N_891	~	~	C23	glx	2	22	33	42	20	54	10	13	2.5	
N_908	~	~	~	glx	2	23	5	-21	14	2	10.2	6.1	2.7	
N_925	~	~	~	glx	2	27	17	33	34	44	9.9	10.5	5.9	
N_936	~	~	~	glx	2	27	37	-1	9	20	10.2	4.7	4.1	
~~~~	~	~	~	glx	2	39	59	-34	26	57	9.3	17	13	Fornax Dwarf galaxy
N1023	~	~	~	glx	2	40	24	39	3	47	9.5	7.4	2.5	
N1039	M34	~	~	ocl	2	42	0	42	47		5.2	35		
N1068	M77	B9	~	glx	2	42	41	0	0	48	8.9	7.1	6	Cetus A
N1097	~	B10	C67	glx	2	46	10	-30	13	43	10	9.4	6.6	
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N1232	~	B10a	~	glx	3	9	45	-20	34	46	9.8	7.4	6.5	

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N1261	~	B11	C87	glb	3	12	16	-55	12	57	8.4	6.8		
N1291	~	B12	~	glx	3	17	18	-41	6	29	8.5	11	9.5	=NGC 1269
N1313	~	B13	~	glx	3	18	16	-66	29	52	9.1	9.2	7.2	
N1300	~	~	~	glx	3	19	41	-19	24	41	10.3	6.2	4.1	
N1275	~	~	C24	glx	3	19	48	41	30	42	12.6	2		Perseus A
N1316	~	B14	~	glx	3	24	58	-37	0	32	8.4	11	7.2	Fornax A
N1332	~	~	~	glx	3	26	17	-21	20	3	10.3	4.5	1.4	
N1340	~	~	~	glx	3	28	19	-31	4	5	10.4	4.8	3.1	=NGC 1344
N1350	~	B14a	~	glx	3	31	8	-33	37	43	10.4	5.9	3.1	
N1360	~	B15	~	pln	3	33	15	-25	52	19	9.4	6.42		
N1365	~	B16	~	glx	3	33	36	-36	8	25	9.5	11	6.2	
N1387	~	B18	~	glx	3	36	57	-35	30	22	10.8	2.8	2.6	
N1380	~	B17	~	glx	3	37	9	-35	11	41	9.9	4	2.4	
N1399	~	B19	~	glx	3	38	29	-35	27	1	9.4	6.9	6.5	
N1395	~	~	~	glx	3	38	30	-23	1	39	9.8	5	4.5	
N1404	~	B20	~	glx	3	38	52	-35	35	36	10	3.3	3	
N1398	~	B19a	~	glx	3	38	52	-26	20	15	9.8	7.2	5.2	
N1407	~	~	~	glx	3	40	12	-18	34	48	9.7	4.6	4.3	
N1433	~	B21	~	glx	3	42	1	-47	13	19	9.8	6.5	5.9	
I_348	~	~	~	neb	3	44	30	32	17		7	10		
N1435	~	~	~	neb	3	46	6	23	47		4.2	30		
~~~~	M45	~	~	ocl	3	47		27	7		1.6	110		Pleiades
<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>		<b>RA</b>		<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
N1499	~	~	~	neb	4	0	42	36	37		10	145		California Nebula
N1512	~	B21a	~	glx	4	3	54	-43	20	58	10.2	8.9	5.6	
N1514	~	~	~	pln	4	9	12	30	47		10	1.9		
N1532	~	~	~	glx	4	12	4	-32	52	26	9.8	11.6	3.4	
N1543	~	~	~	glx	4	12	43	-57	44	15	10.3	3.8	2.8	
N1535	~	B22	~	pln	4	14	16	-12	44	22	9.6	0.85		
N1549	~	B23	~	glx	4	15	45	-55	35	31	9.6	4.9	4.1	
N1553	~	B24	~	glx	4	16	10	-55	46	49	9	4.5	2.8	
N1559	~	~	~	glx	4	17	37	-62	47	3	10.4	3.5	2	
N1566	~	B25	~	glx	4	20	1	-54	56	17	9.4	8.2	6.5	
N1574	~	~	~	glx	4	21	59	-56	58	27	10.3	4	3.6	
~~~~	~	~	C41	ocl	4	26	54	15	52	0	1	330		Hyades
N1617	~	B25a	~	glx	4	31	39	-54	36	6	10.5	4.3	2.1	
N1672	~	B26	~	glx	4	45	42	-59	14	53	9.7	6.7	5.6	
N1647	~	~	~	ocl	4	45	55	19	6	54	6.4	40		
N1662	~	~	~	ocl	4	48	27	10	56	12	6.4	12		
N1711	~	~	~	ocl	4	50	36	-69	59	6	10.1	2.4		In Large Magellanic Cloud
N1755	~	~	~	ocl	4	55	14	-68	12	18	9.9	2.6		In Large Magellanic Cloud
N1761	~	~	~	ocl	4	56	37	-66	28	42	7.5	1.2		In Large Magellanic Cloud
N1763	~	B27	~	neb	4	56	40	-66	24	44	6.5	5	3	In Large Magellanic Cloud
N1770	~	~	~	ocl	4	57	23	-68	24	40	9	3		In Large Magellanic Cloud
N1783	~	B28	~	glb	4	59	9	-65	59	10	11	3		In Large Magellanic Cloud
NGCIC	Messier	Bennett	Caldwell	type		RA		Dec			Vmag	diam1	diam2	notes
N1746	~	~	~	ocl	5	3	50	23	46	12	6.1	42		
N1820	~	~	~	ocl	5	4	7	-67	16	48	9	4		Total of N1820+N1816+N1814, all in Large Magellanic Cloud
N1818	~	B30	~	ocl	5	4	14	-66	26	6	9.7	3.4		In Large Magellanic Cloud
N1829	~	~	~	ocl	5	4	57	-68	3	24	8	2		In Large Magellanic Cloud
N1835	~	~	~	ocl	5	5	6	-69	24	14	10	1.2		In Large Magellanic Cloud
N1792	~	B29	~	glx	5	5	14	-37	58	49	10	5.2	2.6	
N1808	~	B31	~	glx	5	7	43	-37	30	48	9.9	6.5	3.9	
N1850	~	~	~	ocl	5	8	45	-68	45	42	9	3.4		In Large Magellanic Cloud =NGC 1855, in Large Magellanic Cloud
N1854	~	~	~	glb	5	9	20	-68	50	54	9	2		In Large Magellanic Cloud
N1856	~	~	~	ocl	5	9	29	-69	7	42	10.1	1.8		In Large Magellanic Cloud
N1874	~	~	~	neb	5	13	18	-69	21	42	8.5	1		In Large Magellanic Cloud
N1876	~	~	~	ocl	5	13	19	-69	21	47	8.8	1		In Large Magellanic Cloud
N1866	~	B33	~	ocl	5	13	39	-65	27	54	9.7	4.5		In Large Magellanic Cloud
N1851	~	B32	C73	glb	5	14	7	-40	2	48	7.1	11		
I_405	~	~	C31	neb	5	16	29	34	21	24	6	19	30	
~~~~	~	~	~	glx	5	23		-69	45		0.9	650	550	Large Magellanic Cloud (main bar is ~350x110)
N1904	M79	B34	~	glb	5	24	11	-24	31	29	7.7	9.6		
N1955	~	~	~	ocl	5	26	10	-67	29	54	9	1.8		In Large Magellanic Cloud
N1962/1970	~	~	~	neb	5	26	19	-68	50	12	8	5		Total of N1966+N1962+N1965+N1970 all in Large Magellanic Cloud
N1968	~	~	~	ocl	5	27	24	-67	27	48	9	1.1		In Large Magellanic Cloud
I_418	~	~	~	pln	5	27	28	-12	41	50	9.3	0.2		
N1983	~	~	~	ocl	5	27	44	-68	59	0	8.4	2		In Large Magellanic Cloud
N1974	~	~	~	ocl	5	27	57	-67	25	24	9	1.7		=NGC 1991
N1994	~	~	~	ocl	5	28	22	-69	8	30	9.8	0.6		In Large Magellanic Cloud
N1912	M38	~	~	ocl	5	28	42	35	50		6.4	21		
N2002	~	~	~	ocl	5	30	20	-66	53	0	10.1	2		In Large Magellanic Cloud
N2004	~	~	~	ocl	5	30	40	-67	17	18	9.6	2.7		In Large Magellanic Cloud
N2014	~	~	~	ocl	5	32	19	-67	41	18	9	3		In Large Magellanic Cloud

## VicSouth-deepsky-MBC

N2011	~	~	~	ocl	5	32	19	-67	31	24	10	1		In Large Magellanic Cloud
N1952	M1	~	~	neb	5	34	30	22	1		8.4	6		Crab Nebula
N2037	~	~	~	ocl	5	35	0	-69	43	54	10.3	0.5		
N1973/1977	~	~	~	neb	5	35	5	-4	43	55	6.6	20	8	Total of N1977+N1973+N1975
N1981	~	~	~	ocl	5	35	9	-4	25	54	4.2	28		
N1976	M42	~	~	neb	5	35	16	-5	23	25	3.6	65	60	Orion Nebula
N1980	~	~	~	neb	5	35	24	-5	54		2.8	14		
N1982	M43	~	~	neb	5	35	31	-5	16	3	6	20	15	
N1960	M36	~	~	ocl	5	36	6	34	8		6	12		
N2041	~	~	~	ocl	5	36	28	-66	59	24	10.4	0.7		In Large Magellanic Cloud
N2070	~	B35	C103	neb	5	38	42	-69	6	3	4.3	40	25	Tarantula Nebula in Large Magellanic Cloud
N2074	~	~	~	neb	5	39	3	-69	29	54	8.1	15	10	southern part of N2070
N2024	~	~	~	neb	5	41	42	-1	51	24	8	25		Flame Nebula
N2022	~	~	~	pln	5	42	6	9	5		12	0.3		
N2100	~	~	~	ocl	5	42	8	-69	12	42	9.6	2.8		In Large Magellanic Cloud
N2068	M78	~	~	neb	5	46	45	0	4	48	8	8	6	
N2071	~	~	~	neb	5	47	7	0	17	39	8	7	5	
N2099	M37	~	~	ocl	5	52	4	32	33		5.6	24		
N2112	~	~	~	ocl	5	53	45	0	24	36	9.1	18		
N2157	~	~	~	ocl	5	57	34	-69	11	54	10.2	2.7		In Large Magellanic Cloud
N2164	~	~	~	ocl	5	58	54	-68	30	54	10.3	2.5		In Large Magellanic Cloud
<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>	<b>RA</b>			<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
N2129	~	~	~	ocl	6	1	0	23	18		6.7	7		
N2169	~	~	~	ocl	6	8	24	13	57		5.9	7		
N2168	M35	~	~	ocl	6	8	35	24	20		5.1	28		
N2175	~	~	~	neb	6	9	48	20	18		6.8	18		
N2210	~	~	~	glb	6	11	32	-69	7	18	10.2	2.1		In Large Magellanic Cloud
N2214	~	B36	~	ocl	6	12	57	-68	15	37	10.9	3.6		
I_2165	~	~	~	pln	6	21	42	-12	59		13	0.1		
N2232	~	~	~	ocl	6	26	36	-4	45		3.9	30		
N2243	~	B36a	~	ocl	6	29	34	-31	17	0	9.4	8.3		
N2237	~	~	C49	neb	6	30	54	5	3	0	9	80		Rosette Nebula
N2244	~	~	C50	ocl	6	31	56	4	56	35	4.8	24		within Rosette Nebula
N2261	~	~	C46	neb	6	39	10	8	44	40	9	2		Hubble's variable nebula Christmas Tree + Cone Nebula
N2264	~	~	~	ocl	6	41	6	9	53		3.9	60		
N2287	M41	~	~	ocl	6	46	1	-20	45	24	4.5	40		
N2298	~	B37	~	glb	6	48	59	-36	0	15	9.3	5		
N2281	~	~	~	ocl	6	49	18	41	4		5.4	15		NGC 2281 in Auriga
N2301	~	~	~	ocl	6	51	48	0	28		6	12		
<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>	<b>RA</b>			<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
N2323	M50	~	~	ocl	7	3	12	-8	20		5.9	16		
N2354	~	~	~	ocl	7	14	18	-25	44		6.5	20		
N2360	~	~	C58	ocl	7	17	43	-15	38	30	7.2	13		
N2359	~	~	~	neb	7	18	30	-13	13	50	11	8	8	Thor's Helmet
N2362	~	~	C64	ocl	7	18	41	-24	57	18	4.4	8	8	
N2371	~	~	~	pln	7	25	36	29	29		13	0.9		
N2392	~	~	C39	pln	7	29	11	20	54	42	10	0.8		Eskimo Nebula
N2442	~	~	~	glx	7	36	24	-69	31	50	10.4	6	5	=NGC 2443
N2422	M47	~	~	ocl	7	36	36	-14	30		4.4	30		
N2423	~	~	~	ocl	7	37	6	-13	52		6.7	19		
N2419	~	~	C25	glb	7	38	8	38	52	54	9	6		
N2439	~	~	~	ocl	7	40	48	-31	39		6.9	10		
N2437	M46	~	~	ocl	7	41	48	-14	49		6.1	27		
N2438	~	~	~	pln	7	41	48	-14	44		10.8	1.1		in front of N2437 (M46)
N2440	~	~	~	pln	7	41	54	-18	13		11	0.5		
N2447	M93	~	~	ocl	7	44	36	-23	52		6.2	22		
N2451	~	~	~	ocl	7	45	24	-37	58		2.8	45		
N2477	~	~	C71	ocl	7	52	10	-38	31	48	5.8	27		
N2467	~	B37a	~	neb	7	52	26	-26	26	12	7	16		
N2489	~	B38	~	ocl	7	56	15	-30	3	48	7.9	5		
N2516	~	~	C96	ocl	7	58	4	-60	45	12	3.8	28		
<b>NGCIC</b>	<b>Messier</b>	<b>Bennett</b>	<b>Caldwell</b>	<b>type</b>	<b>RA</b>			<b>Dec</b>			<b>Vmag</b>	<b>diam1</b>	<b>diam2</b>	<b>notes</b>
N2506	~	B39	C54	ocl	8	0	1	-10	46	12	7.6	7		
N2527	~	~	~	ocl	8	5	18	-28	10		6.5	22		
N2547	~	~	~	ocl	8	10	9	-49	12	54	4.7	22		
N2539	~	~	~	ocl	8	10	42	-12	50		6.5	22		
N2546	~	~	~	ocl	8	12	24	-37	38		6.3	41		
N2548	M48	~	~	ocl	8	13	48	-5	48		5.8	54		
N2579	~	~	~	neb	8	21	6	-36	11		7.5	10		
N2627	~	B40	~	ocl	8	37	15	-29	57	18	8.4	9		
N2645	~	~	~	ocl	8	39	3	-46	13	54	7	3		
N2632	M44	~	~	ocl	8	40	6	19	59		3.1	95		"Praesepe", Beehive cluster
I_2391	~	~	C85	ocl	8	40	40	-53	3	24	2.6	55		Omicron Velorum cluster
I_2395	~	~	~	ocl	8	42	6	-79	1	36	5	40		
I_2395	~	~	~	ocl	8	42	31	-48	8	12	4.6	10		
N2659	~	~	~	ocl	8	42	37	-44	59	0	8.6	3		
N2660	~	~	~	ocl	8	42	38	-47	12	0	8.8	3		

N2670	~	~	~	ocl	8	45	30	-48	48	0	7.8	8		
N2671	~	B40a	~	ocl	8	46	12	-41	52	42	11.6	5		
N2669	~	~	~	ocl	8	46	22	-52	56	54	6.1	14		
-----	~	~	~	ocl	8	47	48	-42	28	0	4.6	15		Collinder 203
N2682	M67	~	~	ocl	8	50	24	-11	49		6.9	30		
N2683	~	~	~	glx	8	52	42	33	25		9.7	8	1.8	
NGCIC	Messier	Bennett	Caldwell	type		RA			Dec		Vmag	diam1	diam2	notes
I_2448	~	~	~	pln	9	7	6	-69	56	32	10.4	0.45		
N2775	~	~	C48	glx	9	10	20	7	2	16	11	4	3	
N2808	~	B41	~	glb	9	12	3	-64	51	50	6.2	14		
N2867	~	~	C90	pln	9	21	25	-58	18	42	9.7	0.4		
I_2488	~	~	~	ocl	9	27	31	-56	58	54	7.4	15		
N2910	~	~	~	ocl	9	30	30	-52	55	6	7.2	6		
N2903	~	~	~	glx	9	32	12	21	30		8.9	13	5	
N2925	~	~	~	ocl	9	33	11	-53	23	54	8.3	11		
I_2501	~	~	~	pln	9	38	47	-60	5	29	10.4	0.03		
N2972	~	B41a	~	ocl	9	40	13	-50	19	24	9.9	5		
N2997	~	B41b	~	glx	9	45	39	-31	11	27	9.5	7	9	
N3033	~	~	~	ocl	9	48	37	-56	25	18	8.8	12		
NGCIC	Messier	Bennett	Caldwell	type		RA			Dec		Vmag	diam1	diam2	notes
N3105	~	~	~	ocl	10	0	39	-54	47	18	9.7	2		
N3114	~	~	~	ocl	10	2	36	-60	7	12	4.2	35		
N3115	~	B42	C53	glx	10	5	14	-7	43	8	8.9	7	2	Spindle Galaxy
														Eight-burst Nebula, Southern Ring
N3132	~	B43	C74	pln	10	7	2	-40	26	11	8.2	1.4	0.9	
N3195	~	~	C109	pln	10	9	21	-80	51	31	11.6	0.7	0.5	
I_2553	~	~	~	pln	10	9	21	-62	36	46	10.3	0.15		
N3199	~	~	~	neb	10	17	24	-57	55	18	10	20	15	
N3201	~	B44	C79	glb	10	17	37	-46	24	45	6.9	18		
N3184	~	~	~	glx	10	18	18	41	25		7	9.8		
N3228	~	~	~	ocl	10	21	22	-51	43	42	6	5		
N3247	~	~	~	ocl	10	24	13	-57	45	48	7.4	5		
N3242	~	B45	C59	pln	10	24	46	-18	38	34	8.6	0.4		Ghost of Jupiter
I_2581	~	~	~	ocl	10	27	27	-57	37	18	4.3	5		
N3293	~	~	~	ocl	10	35	51	-58	13	48	4.7	5		Gem cluster
N3324	~	~	~	ocl	10	37	19	-58	38	3	6.7	16	14	
N3330	~	~	~	ocl	10	38	46	-54	7	24	7.4	6		
-----	~	~	~	ocl	10	42	6	-65	6	0	8	13		Melotte 101
														Theta Car cluster, Southern Pleiades
I_2602	~	~	C102	ocl	10	42	56	-64	23	42	1.8	80		
N3351	M95	~	~	glx	10	44	0	11	42		9.7	7	4	
N3372	~	~	C92	neb	10	45	8	-59	52	0	2.5	110	110	Eta Carinae Nebula
N3368	M96	~	~	glx	10	46	48	11	49		9.2	7.5	5	
N3379	M105	~	~	glx	10	47	48	12	35		9.3	4.6	4	
N3384	~	~	~	glx	10	48	17	12	38		9.9	5.4	2.7	
N3496	~	~	~	ocl	10	59	36	-60	20	12	8.2	7		
NGCIC	Messier	Bennett	Caldwell	type		RA			Dec		Vmag	diam1	diam2	notes
N3503	~	~	~	neb	11	1	17	-59	50	48	10.5	3		
N3519	~	~	~	ocl	11	4	4	-61	22	6	7.7	8		
N3532	~	~	C91	ocl	11	5	39	-58	45	12	3	60	40	Football cluster
N3521	~	~	~	glx	11	5	48	0	2		8.9	7	4	
N3572	~	~	~	ocl	11	10	23	-60	14	54	6.6	6		
N3590	~	~	~	ocl	11	12	59	-60	47	18	8.2	2		
N3585	~	~	~	glx	11	13	48	-26	49		9.9	4.6	2.5	
														contains many high-mass stars
N3603	~	~	~	ocl	11	15	7	-61	15	36	9.1	4		
N3607	~	~	~	glx	11	16	55	-18	3		9.9	4.6	4	
I_2714	~	~	~	ocl	11	17	22	-62	43	18	8.2	13		
N3621	~	B46	~	glx	11	18	16	-32	48	50	9.7	12	7	
N3623	M65	~	~	glx	11	18	54	13	5		9.3	9	2	
-----	~	B47	~	ocl	11	19	39	-63	30	0	8.5	4		Melotte 105
N3626	~	~	C40	glx	11	20	4	18	21	25	10.8	3	2	
N3627	M66	~	~	glx	11	20	12	12	59		9	7.6	3.3	
N3628	~	~	~	glx	11	20	18	13	36		9.5	10	3.3	
N3680	~	~	~	ocl	11	25	38	-43	14	36	7.6	7		
I_2944	~	~	C100	ocl	11	35	47	-63	1	11	5	35		Lambda Centauri cluster
N3766	~	~	C97	ocl	11	36	14	-61	36	30	5.3	14		Pearl cluster
N3918	~	~	~	pln	11	50	18	-57	10	56	8.1	0.38		Blue Planetary
N3960	~	B48	~	ocl	11	50	33	-55	40	24	8.3	7		
N3923	~	B49	~	glx	11	51	2	-28	48	23	9.8	6	4	
NGCIC	Messier	Bennett	Caldwell	type		RA			Dec		Vmag	diam1	diam2	notes
N4052	~	~	~	ocl	12	0	0	-63	13	36	8.8	8		
N4038/4039	~	~	C61	glx	12	1	54	-18	52	28	10.5	5	3	Antennae Galaxies (interacting)
N4103	~	~	~	ocl	12	6	40	-61	15	0	7.4	6		
N4192	M98	~	~	glx	12	13	49	14	54		10.1	10.5	2.6	
N4214	~	~	~	glx	12	15	36	36	20		9.7	7.5	6	
N4230	~	~	~	ocl	12	17	9	-55	17	12	9.4	5		
N4244	~	~	C26	glx	12	17	30	37	48	27	10.3	16	2	
N4254	M99	~	~	glx	12	18	48	14	25		9.8	6	5	Pinwheel Galaxy





## VicSouth-deepsky-MBC

N5662	~	~	~	ocl	14	35	37	-56	37	6	5.5	30		
N5694	~	~	C66	glb	14	39	37	-26	32	18	10.2	3.6		
N5715	~	~	~	ocl	14	43	29	-57	34	36	9.8	7		
N5749	~	~	~	ocl	14	48	53	-54	29	54	8.8	10		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
I 4499	~	~	~	glb	15	0	19	-82	12	49	10.1	8		
N5800	~	~	~	ocl	15	1	47	-51	55	6	8	5		
N5824	~	B67	~	glb	15	3	59	-33	4	8	9.1	7		
N5822	~	~	~	ocl	15	4	21	-54	23	48	6.5	35		
N5823	~	~	C88	ocl	15	5	30	-55	36	12	7.9	12		
N5882	~	~	~	pln	15	16	50	-45	38	56	9.4	0.33		
N5897	~	B68	~	glb	15	17	24	-21	0	37	8.4	11		
N5904	M54	~	~	glb	15	18	34	2	4	58	5.7	17.4		the core of Sagittarius Dwarf Elliptical galaxy??
N5925	~	~	~	ocl	15	27	26	-54	31	42	8.4	20		
N5927	~	B69	~	glb	15	28	0	-50	40	23	8	6		
N5946	~	~	~	glb	15	35	28	-50	39	33	8.4	3		
N5986	~	B70	~	glb	15	46	4	-37	47	9	7.6	9		
N5999	~	B71	~	ocl	15	52	8	-56	28	24	9	3		
N6005	~	B72	~	ocl	15	55	48	-57	26	12	10.7	3		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
~~~~~	~	B72a	~	ocl	16	0	50	-53	32	0	9.5	9		Trumpler 23
N6025	~	~	C95	ocl	16	3	17	-60	25	54	5.1	15		
N6031	~	~	~	ocl	16	7	35	-54	0	54	8.5	3		
N6067	~	~	~	ocl	16	13	11	-54	13	6	5.6	15		
N6093	~	B73	~	glb	16	17	3	-22	58	32	7.3	10		
N6087	~	~	C89	ocl	16	18	50	-57	56	6	5.4	12		Norma cluster
~~~~~	~	~	~	ocl	16	19	54	-54	59	0	9	30		H10
N6121	M4	B75	~	glb	16	23	35	-26	31	35	5.4	36		
N6115	~	~	~	ocl	16	24	26	-51	56	54	9.8	3.4		
N6124	~	~	C75	ocl	16	25	20	-40	39	12	5.8	40		
N6101	~	B74	C107	glb	16	25	48	-72	12	5	9.2	5		
N6144	~	B77	~	glb	16	27	14	-26	1	26	9	7		
N6139	~	B78	~	glb	16	27	40	-38	50	57	9.1	8		
N6134	~	B76	~	ocl	16	27	46	-49	9	6	7.2	6		
N6171	M107	B79	~	glb	16	32	32	-13	3	12	7.8	13		
N6152	~	~	~	ocl	16	32	45	-52	38	36	8.1	25		
N6169	~	~	~	ocl	16	34	4	-44	2	42	6.6	12		
N6167	~	B79a	~	ocl	16	34	34	-49	46	18	6.7	7		
N6178	~	~	~	ocl	16	35	47	-45	38	36	7.2	5		
N6192	~	B79b	~	ocl	16	40	23	-43	22	0	8.5	9		
N6193	~	~	C82	ocl	16	41	20	-48	45	48	5.2	14		
N6205	M13	~	~	glb	16	41	42	36	27	37	5.8	16.6		
N6200	~	~	~	ocl	16	44	7	-47	27	48	7.4	15		
N6210	~	~	~	pln	16	44	30	23	49		9	0.2		
N6204	~	~	~	ocl	16	46	9	-47	1	0	8.2	6		
N6218	M12	B80	~	glb	16	47	14	-1	56	52	6.1	16		
N6216	~	B81	~	ocl	16	49	24	-44	43	42	10.1	4		
N6208	~	~	~	ocl	16	49	28	-53	43	42	7.2	16		
N6221	~	~	~	glx	16	52	46	-59	13	2	10.1	3.5	2.5	
N6235	~	B82	~	glb	16	53	25	-22	10	34	8.9	5		
N6231	~	~	C76	ocl	16	54	10	-41	49	30	2.6	12		
N6242	~	~	~	ocl	16	55	36	-39	30		6.4	9		
~~~~~	~	~	~	ocl	16	57	0	-40	40	0	9	60		Trumpler 24
N6254	M10	B83	~	glb	16	57	9	-4	5	56	6.6	20		
N6249	~	~	~	ocl	16	57	41	-44	48	42	8.2	6		
N6250	~	~	~	ocl	16	57	56	-45	56	12	5.9	16		
N6253	~	B84	~	ocl	16	59	5	-52	42	30	10.2	4		
NGCIC	Messier	Bennett	Caldwell	type	RA			Dec			Vmag	diam1	diam2	notes
N6259	~	~	~	ocl	17	0	45	-44	39	18	8	15		
N6266	M62	B85	~	glb	17	1	13	-30	6	45	6.4	15		
I 4634	~	~	~	pln	17	1	36	-21	50		11	0.2		
N6268	~	~	~	ocl	17	2	10	-39	43	42	9.5	6		
N6273	M19	B86	~	glb	17	2	38	-26	16	4	6.8	17		
N6284	~	B87	~	glb	17	4	29	-24	45	51	8.9	6.2		
N6281	~	~	~	ocl	17	4	41	-37	59	6	5.4	8		
N6287	~	B88	~	glb	17	5	9	-22	42	25	9.3	4.8		
N6293	~	B89	~	glb	17	10	10	-26	34	56	8.3	8.2		
N6302	~	~	C69	pln	17	13	44	-37	6	12	9.6	1.48		Bug Nebula
N6309	~	~	~	pln	17	14	6	-12	55		11	1.1		
N6304	~	B90	~	glb	17	14	32	-29	27	43	8.3	8		
N6318	~	B91a	~	ocl	17	16	11	-39	25	30	11	5		
N6316	~	B91	~	glb	17	16	37	-28	8	23	8.1	5.4		
N6300	~	~	~	glx	17	17	0	-62	49	14	10.1	4.3	2.8	
N6341	M92	~	~	glb	17	17	7	43	8	11	6.4	11.2		
N6325	~	~	~	glb	17	17	59	-23	45	58	10.2	4.1		
N6322	~	~	~	ocl	17	18	25	-42	56	0	6	5		
N6333	M9	B92	~	glb	17	19	12	-18	30	58	7.8	12		
N6342	~	~	~	glb	17	21	10	-19	35	14	9.7	3		
N6337	~	~	~	pln	17	22	18	-38	29		12.3	0.8		
N6356	~	B93	~	glb	17	23	35	-17	48	52	8.2	10		

N6355	~	~	~	glb	17	23	59	-26	21	10	8.6	4.2		
I_4651	~	~	~	ocl	17	24	52	-49	56	36	6.9	11		
N6352	~	B94	C81	glb	17	25	29	-48	25	21	8	8		
N6366	~	~	~	glb	17	27	44	-5	4	36	9.2	8.3		
~~~~~	~	~	~	dkn	17	28	24	-26	32	0	~	410	90	Pipe Nebula, Barnard 59
N6369	~	~	~	pln	17	29	18	-23	46		13	1.1		
N6362	~	B95	~	glb	17	31	55	-67	2	54	8.5	10		
N6383	~	~	~	ocl	17	34	48	-32	34		5.5	20		=N6374
N6388	~	B96	~	glb	17	36	17	-44	44	8	6.8	10.4		
N6396	~	~	~	ocl	17	37	36	-35	1	36	8.5	3		
N6402	M14	B97	~	glb	17	37	36	-3	14	43	7.6	11		
N6401	~	~	~	glb	17	38	37	-23	54	33	7.4	4.8		
N6400	~	~	~	ocl	17	40	12	-36	56	54	8.8	12		
N6405	M6	~	~	ocl	17	40	20	-32	15	12	4.2	33		Butterfly cluster
N6397	~	B98	C86	glb	17	40	42	-53	40	26	5.5	25		
N6416	~	~	~	ocl	17	44	19	-32	21	42	5.7	15		
N6425	~	~	~	ocl	17	47	1	-31	31	48	7.2	10		
N6440	~	B98a	~	glb	17	48	53	-20	21	39	9.3	4.4		
N6445	~	B98b	~	pln	17	49	15	-20	0	36	11.2	0.73		
N6441	~	B99	~	glb	17	50	13	-37	3	3	7.2	9.6		
N6451	~	~	~	ocl	17	50	41	-30	12	36	8.2	8		
N6453	~	~	~	glb	17	50	52	-34	35	54	10.2	7.6		
N6469	~	~	~	ocl	17	53	12	-22	16	30	8.2	8		
N6475	M7	~	~	ocl	17	53	51	-34	47	36	3.3	75		Ptolemy's cluster
~~~~~	~	~	~	ocl	17	56	30	-35	19	0	8.8	15		Trumpler 30
N6494	M23	~	~	ocl	17	56	48	-19	1		5.5	27		
N6496	~	B100	~	glb	17	59	4	-44	16	0	8.6	5.6		
NGCIC	Messier	Bennett	Caldwell	type		RA		Dec		Vmag	diam1	diam2		notes
~~~~~	~	~	~	glb	18	1	49.1	-27	49	33	9.9	5		Djorg 2
N6517	~	~	~	glb	18	1	51	-8	57	32	10.1	4		
N6514	M20	~	~	neb	18	2	42	-22	58	18	5.8	20		Trifid Nebula
~~~~~	~	~	~	dkn	18	2	58	-27	52	5	~	4	3	Barnard 86
N6520	~	~	~	ocl	18	3	24	-27	53	18	7.6	5		
N6522	~	B101	~	glb	18	3	35	-30	2	6	9.9	9.4		
N6523	M8	~	~	neb	18	3	41	-24	22	48	4.5	45	30	Lagoon Nebula
N6535	~	~	~	glb	18	3	51	0	17	51	9.3	3.4		
N6531	M21	~	~	ocl	18	4	13	-22	29	24	5.9	16		
N6530	~	~	~	ocl	18	4	31	-24	21	30	4.6	14		formed from Lagoon Nebula
N6528	~	B102	~	glb	18	4	50	-30	3	21	9.6	5		
N6539	~	~	~	glb	18	4	50	-7	35	11	8.9	7.9		
N6540	~	~	~	glb	18	6	8	-27	45	50	9.3	1.5		
N6544	~	B103	~	glb	18	7	20	-24	59	54	7.5	9.2		
N6546	~	~	~	ocl	18	7	22	-23	17	48	8	15		
N6541	~	B104	C78	glb	18	8	2	-43	42	57	6.3	13		
N6553	~	B105	~	glb	18	9	17	-25	54	30	8.3	9.2		
N6558	~	~	~	glb	18	10	18	-31	45	47	8.6	4.2		
I_1276	~	~	~	glb	18	10	45	-7	12	46	10.3	8		
N6572	~	~	~	pln	18	12	6	6	51		9	0.1		
N6568	~	~	~	ocl	18	12	44	-21	36	18	8.6	12		
N6569	~	B106	~	glb	18	13	39	-31	49	35	8.4	6.4		
N6567	~	~	~	pln	18	13	42	-19	5		12	0.1		
~~~~~	~	~	~	dkn	18	15	30	-18	11	0	~	15		Barnard 92
N6583	~	~	~	ocl	18	15	49	-22	8	12	10	5		
N6605	~	~	~	ocl	18	16	24	-15	0	0	6	29		
N6595	~	~	~	neb	18	17	5	-19	51	57	6.6	7		
N6604	~	~	~	ocl	18	18	3	-12	14	35	6.5	6		
N6603	M24	B107a	~	stc	18	18	26	-18	24	24	4.6	110	45	bright portion of star cloud
N6584	~	B107	~	glb	18	18	38	-52	12	57	9	7		
N6611	M16	~	~	ocl	18	18	48	-13	48	24	6	8		Eagle Nebula
N6613	M18	~	~	ocl	18	19	59	-17	6	7	6.9	7		
N6618	M17	B108	~	neb	18	20	47	-16	10	18	5.6	25	15	Omega Nebula
N6625	~	~	~	ocl	18	22	49	-11	57	42	9	39		
N6624	~	B109	~	glb	18	23	41	-30	21	40	7.6	8.8		
N6626	M28	B110	~	glb	18	24	33	-24	52	7	6.9	13.8		
N6629	~	~	~	pln	18	25	42	-23	12		12	0.3		
N6633	~	~	~	ocl	18	27	42	6	34		4.6	27		
N6638	~	B111	~	glb	18	30	56	-25	29	56	9.2	7.3		
N6637	M69	B112	~	glb	18	31	23	-32	20	52	7.4	7.1		
I_4725	M25	~	~	ocl	18	31	48	-19	6	48	4.6	26		
N6642	~	B112a	~	glb	18	31	54	-23	28	35	8.9	5.8		
N6644	~	~	~	pln	18	32	36	-25	8		12	0.1		
N6645	~	~	~	ocl	18	32	37	-16	53	0	8.5	15		
N6649	~	~	~	ocl	18	33	27	-10	24	12	8.9	6		
N6652	~	B113	~	glb	18	35	46	-32	59	28	8.5	6		
N6656	M22	B114	~	glb	18	36	24	-23	54	17	5.2	32		
N6664	~	~	~	ocl	18	36	33	-8	13	12	7.8	12		
N6683	~	~	~	ocl	18	42	13	-6	12	42	9.4	3		
N6681	M70	B115	~	glb	18	43	13	-32	17	27	7.8	8		
N6694	M26	~	~	ocl	18	45	18	-9	23	0	8	10		
~~~~~	~	~	~	stc	18	45		-7	0		2	150	100	Scutum star cloud
N6704	~	~	~	ocl	18	50	45	-5	12	18	9.2	6		
N6705	M11	B116	~	ocl	18	51	5	-6	16	12	5.8	11		Wild Duck cluster

