

250 Best Open Clusters

Const	Object	RA (2000)	DEC (2000)	V mag	Diam (')	No.*	Br. *	Ur 2000	Photo p.
Aql	NGC 6755	19 07 49.0	+04 16 00	7.5	15.0	157	11.0	105	269
Aql	NGC 6709	18 51 30.0	+10 20 00	6.7	15.0	111	9.0	85	266
Aql	Be 79	18 44 57.5	-01 09 00		7.0	60	15.0	105	261
Aql	NGC 6756	19 08 43.0	+04 42 18	10.6	4.0	40	13.0	105	270
Aql	Be 43	19 15 30.0	+11 16 30		5.0	35	15.0	85	271
Aql	Be 80	18 54 20.6	-01 13 12		3.0	20	15.0	105	267
Aql	Be 45	19 19 06.0	+15 43 18		2.0	20	15.0	85	273
Aql	King 26	19 29 00.0	+14 52 00		2.0	15		85	278
Aqr	M 73	20 58 56.0	-12 38 00	8.9	1.4	4	11.1	123	299
Aur	M 37	05 52 19.0	+32 33 00	5.6	15.0	1842	11.0	59	67
Aur	Be 18	05 22 12.0	+45 28 00		12.0	300	16.0	42	51
Aur	King 8	05 49 17.0	+33 37 36	11.2	4.0	198	15.0	59	65
Aur	M 38	05 28 43.0	+35 51 00	6.4	15.0	160	8.0	59	55
Aur	Be 19	05 24 03.0	+29 34 12	11.4	4.0	150	15.0	59	52
Aur	Bas 4	05 48 54.0	+30 11 06	9.1	5.0	134	12.2	59	64
Aur	NGC 1907	05 28 05.0	+35 19 30	8.2	5.0	113	11.0	59	54
Aur	Be 17	05 20 30.0	+30 35 00		8.0	100	16.0	59	50
Aur	M 36	05 36 18.0	+34 08 00	6.0	10.0	60	9.0	59	60
Aur	Cz 19	04 56 56.0	+28 48 00		15.0	50		77	46
Aur	NGC 1798	05 11 40.0	+47 41 42	10.0	5.0	50	13.0	42	47
Aur	NGC 2192	06 15 18.0	+39 51 18	10.9	5.0	45	14.0	58	78
Aur	NGC 1857	05 20 06.0	+39 21 00	7.0	10.0	40	11.0	59	49
Aur	Be 71	05 40 57.0	+32 16 00		5.0	30	15.0	59	63
Aur	Be 69	05 24 21.0	+32 36 24		3.0	30	14.0	59	53
Cam	NGC 1502	04 07 50.0	+62 20 00	6.9	20.0	63	7.0	16	40
Cam	IC 361	04 18 51.0	+58 15 00	11.7	7.0	60	14.0	28	43
Cas	NGC 7789	23 57 28.6	+56 43 00	6.7	25.0	15000	10.0	18	315
Cas	NGC 2506	08 00 02.0	-10 46 00	7.6	12.0	807	11.0	134	180
Cas	NGC 188	00 47 30.0	+85 15 00	8.1	15.0	550	10.0	1	20
Cas	NGC 457	01 19 33.0	+58 17 00	6.4	20.0	204	8.6	29	24
Cas	Skiff J0058.4+6828	00 58 24.0	+68 28 00		7.0	200	10.2	8	22
Cas	King 14	00 31 54.0	+63 10 00	8.5	7.0	186	10.0	8	18
Cas	IC 166	01 52 22.0	+61 51 00	11.7	8.0	179	17.0	29	31
Cas	M 52	23 24 51.0	+61 36 00	6.9	16.0	173	11.0	18	310
Cas	M 103	01 33 22.0	+60 39 30	7.4	6.0	172	9.0	29	26
Cas	NGC 7790	23 58 24.0	+61 12 30	8.5	5.0	134	10.0	18	316
Cas	NGC 559	01 29 33.0	+63 18 00	9.5	7.0	120	9.0	17	25
Cas	NGC 663	01 46 17.0	+61 13 00	7.1	15.0	108	9.0	29	30
Cas	King 1	00 21 52.0	+64 23 00		9.0	100	13.0	8	17
Cas	Be 100	23 25 58.0	+63 47 00		2.7	100	16.0	8	311
Cas	NGC 654	01 44 00.0	+61 53 00	6.5	6.0	83	10.0	29	29
Cas	NGC 609	01 36 24.0	+64 32 12	11.0	3.0	77	14.0	17	27
Cas	King 16	00 43 42.0	+64 11 00	10.3	5.0	71	11.0	8	19
Cas	NGC 637	01 43 04.0	+64 02 12	8.2	3.0	55	8.0	17	28
Cas	NGC 436	01 15 58.0	+58 49 00	8.8	5.0	49	10.0	29	23
Cas	King 2	00 50 57.0	+58 11 30		4.0	40	17.0	18	21
Cas	King 21	23 49 54.0	+62 42 00	9.6	4.0	20	10.0	8	313
Cep	NGC 869	02 19 04.0	+57 08 00	5.3	18.0	317	6.6	29	32
Cep	NGC 884	02 22 05.0	+57 08 00	6.1	18.0	303	6.4	29	33
Cep	NGC 6939	20 31 30.0	+60 40 00	7.8	10.0	301	11.9	20	296
Cep	NGC 7142	21 45 09.0	+65 47 00	9.3	12.0	186	11.0	9	305
Cep	NGC 7510	23 11 04.2	+60 34 00	7.9	7.0	75	10.0	18	309

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Cep	King 11	23 47 36.6	+68 38 26		6.0	50	17.0	8	312
Cep	NGC 7762	23 49 54.0	+68 01 00	10.0	15.0	40	11.0	8	314
Cep	NGC 7419	22 54 17.0	+60 48 48	13.0	6.0	40	10.0	19	307
Cep	King 10	22 55 00.0	+59 10 00		4.0	40	11.0	19	308
CMa	Eso 559-2	07 18 06.0	-18 36 00		1.2			154	129
CMa	NGC 2243	06 29 35.0	-31 17 00	9.4	8.3	368	11.8	172	82
CMa	NGC 2204	06 15 33.0	-18 40 00	8.6	10.0	353	13.0	154	79
CMa	NGC 2354	07 14 16.0	-25 42 00	6.5	18.0	297	9.1	154	124
CMa	NGC 2244	06 32 19.0	+04 51 00	4.8	30.0	100	7.0	115	84
CMa	NGC 2360	07 17 44.0	-15 39 00	7.2	14.0	91	10.4	135	128
CMa	M 41	06 46 00.0	-20 45 00	4.5	39.0	80	8.0	154	96
CMa	NGC 2374	07 23 57.0	-13 16 00	8.0	12.0	73	10.7	135	139
CMa	Haf 8	07 23 03.0	-12 17 48	9.1	5.0	71	12.0	135	137
CMa	NGC 2345	07 08 19.0	-13 12 00	7.7	12.0	70	9.0	135	122
CMa	Haf 6	07 20 01.0	-13 10 00	9.2	7.0	66	16.0	135	131
CMa	NGC 2362	07 18 42.0	-24 57 18	3.8	6.0	60	8.0	153	130
CMa	Tom 2	07 03 06.0	-20 49 06		3.0	50	16.0	154	114
CMa	Tom 1	07 00 27.0	-20 34 12		6.0	45	14.0	154	112
CMa	Ru 18	07 24 39.0	-26 11 00	9.4	8.0	40	12.0	153	140
CMa	Be 25	06 41 14.0	-16 29 00		7.0	40	16.0	135	92
CMa	NGC 2383	07 24 40.0	-20 56 54	8.4	5.0	40	9.8	153	141
CMa	Be 76	07 06 40.0	-11 44 00		5.0	40	16.0	135	119
CMa	King 25	19 24 30.0	+13 42 00		5.0	40		85	275
CMa	Haf 7	07 22 54.0	-29 29 48		3.0	40	14.0	153	136
CMa	Be 36	07 16 23.0	-13 11 36		3.0	40	17.0	135	126
CMa	Haf 9	07 24 42.0	-16 59 24		4.0	35	14.0	135	142
CMa	Tr 7	07 27 21.0	-23 58 00	7.9	5.0	30	10.0	153	144
CMa	NGC 2367	07 20 05.0	-21 53 00	7.9	5.0	30	9.4	154	132
CMa	Haf 4	07 06 04.0	-15 00 12		5.0	30	14.0	135	118
CMa	Auner 1	07 04 15.3	-19 44 44		3.0	30		154	117
CMa	Ru 7	06 57 50.0	-13 13 12		3.0	30	14.0	135	109
CMa	Ru 11	07 07 23.0	-20 47 06		5.0	25	11.0	154	120
CMa	clvdB 92	07 03 55.0	-11 34 30		3.0	12		135	115
CMi	Be 35	07 09 54.0	+02 43 48		5.0	20	16.0	115	123
CMi	Be 78	07 23 38.0	+05 22 24		5.0	12	16.0	115	138
CMi	ADS 6366	07 47 02.4	+00 01 05		4.5	8	8.3	115	167
Cnc	M 67	08 51 24.0	+11 49 00	6.9	25.0	324	9.0	94	205
Cnc	M 44	08 40 22.0	+19 40 00	3.1	70.0	161	6.0	74	197
Crv	Eso 570-12	12 12 12.0	-21 19 00		13.0			151	209
Crv	Canall	12 35 44.1	-12 02 00		7.5	6	7.4	130	210
Cyg	SSWZ94 6	19 51 01.9	+32 14 35		1.0			48	285
Cyg	NGC 6819	19 41 18.0	+40 11 00	7.3	5.0	929	11.0	33	280
Cyg	NGC 6940	20 34 32.3	+28 17 00	6.3	25.0	170	11.0	66	297
Cyg	NGC 6834	19 52 13.0	+29 24 30	7.8	6.0	128	11.0	48	286
Cyg	NGC 7062	21 23 27.0	+46 22 42	8.3	5.0	85	10.1	32	303
Cyg	M 29	20 24 06.0	+38 30 00	6.6	10.0	81	9.0	48	295
Cyg	NGC 7128	21 43 58.0	+53 42 54	9.7	4.0	71	11.5	19	304
Cyg	NGC 7044	21 13 08.0	+42 30 00	12.0	7.0	60	15.0	32	301
Cyg	IC 1311	20 10 47.0	+41 10 19	13.1	5.0	60	17.0	32	290
Cyg	IC 4996	20 16 31.7	+37 39 00	7.3	7.0	56	8.0	48	293
Cyg	Be 53	20 55 59.0	+51 04 36		6.0	40	16.0	20	298
Cyg	Be 85	20 18 47.0	+37 45 18		6.0	40	15.0	48	294
Cyg	NGC 6846	19 56 28.1	+32 20 55	14.2	0.8	40	12.8	48	287
Cyg	Be 54	21 03 00.0	+40 26 12		4.0	30	17.0	47	300

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Cyg	Be 51	20 11 53.0	+34 24 30		2.0	20	15.0	48	291
Cyg	IC 1310	20 10 03.0	+34 57 42		3.0	12	14.0	48	289
Gem	NGC 2158	06 07 26.0	+24 05 48	8.6	5.0	973	15.0	76	73
Gem	M 35	06 09 00.0	+24 21 00	5.1	25.0	434	8.0	76	75
Gem	NGC 2420	07 38 24.0	+21 34 24	8.3	6.0	304	11.0	75	155
Gem	NGC 2129	06 01 06.0	+23 19 24	6.7	6.0	73	10.0	76	71
Gem	NGC 2266	06 43 20.0	+26 58 12	9.5	5.0	50	11.0	76	94
Gem	NGC 2355	07 17 00.0	+13 45 00	9.7	8.0	40	13.0	95	127
Gem	NGC 2304	06 55 12.0	+17 59 18	10.0	3.0	30		76	104
Gem	Be 23	06 33 15.0	+20 31 48		4.0	25	15.0	76	85
Gem	Be 29	06 53 04.0	+16 55 42		2.0	20	15.0	95	103
Hya	M 48	08 13 44.0	-05 45 00	5.8	30.0	80	8.0	114	187
Lac	King 9	22 15 31.0	+54 24 36		3.0	40	18.0	19	306
Lep	NGC 2017	05 39 16.0	-17 51 00		10.0	8	8.0	136	62
Lyr	NGC 6791	19 20 52.7	+37 46 00	9.5	10.0	380	15.0	48	274
Mon	NGC 2364	07 20 47.0	-07 33 00					135	134
Mon	NGC 2236	06 29 40.0	+06 50 00	8.5	8.0	243	12.0	96	83
Mon	NGC 2262	06 39 38.7	+01 08 30	11.3	4.0	180		115	91
Mon	Tr 5	06 36 31.0	+09 29 00	10.9	15.0	150	17.0	95	88
Mon	NGC 2324	07 04 08.0	+01 03 00	8.4	8.0	133	12.0	115	116
Mon	Be 39	07 46 50.0	-04 40 00		8.0	120	16.0	114	166
Mon	NGC 2353	07 14 31.0	-10 16 00	7.1	18.0	106	9.0	135	125
Mon	NGC 2254	06 35 46.6	+07 40 15	9.1	6.0	93	12.0	95	87
Mon	NGC 2251	06 34 39.0	+08 22 00	7.3	10.0	92	9.1	95	86
Mon	M 50	07 02 47.8	-08 23 00	5.9	15.0	80	9.0	135	113
Mon	NGC 2301	06 51 46.0	+00 28 00	6.0	15.0	80	8.0	115	101
Mon	NGC 2286	06 47 41.0	-03 09 00	7.5	15.0	80	9.0	115	98
Mon	Cr 110	06 38 39.0	+02 03 00	10.5	18.0	70	11.0	115	90
Mon	Bi 8	06 58 07.0	+06 25 54		5.0	70	14.0	95	110
Mon	NGC 2539	08 10 38.0	-12 49 00	6.5	15.0	59	9.0	134	185
Mon	NGC 2343	07 08 07.0	-10 37 00	6.7	6.0	55	8.0	135	121
Mon	Cr 115	06 46 40.0	+01 47 00	9.2	10.0	50		115	97
Mon	NGC 2311	06 57 48.0	-04 37 00	9.6	7.0	50	12.0	115	108
Mon	NGC 2225	06 26 37.0	-09 38 30			40		136	81
Mon	Do 24	06 44 44.0	+01 45 00		15.0	40		115	95
Mon	Ru 4	06 48 57.0	-10 31 00		6.0	40	14.0	135	99
Mon	Mel 72	07 38 29.0	-10 41 36	10.1	5.0	40		135	156
Mon	NGC 2309	06 56 04.0	-07 10 30	10.5	5.0	40	13.0	135	105
Mon	Be 77	07 21 28.0	-03 14 00		5.0	30	13.0	115	135
Mon	Bi 7	06 57 37.0	+08 17 18		4.0	30	14.0	95	106
Mon	Bi 9	06 57 46.0	+03 13 42		3.0	30	15.0	115	107
Mon	Be 37	07 20 18.0	-00 59 48		4.0	25	15.0	115	133
Mon	NGC 2259	06 38 33.3	+10 52 57	10.8	3.5	25	14.0	95	89
Mon	Bi 11	06 51 21.0	+05 46 06		2.0	25	15.0	95	100
Mon	Bi 10	06 52 07.0	+02 55 00	10.4	3.0	20	15.0	115	102
Mon	Cz 30	07 31 11.0	-09 57 00		3.0	20		35	147
Mon	Bi 13	07 00 22.0	-00 14 06		2.0	20	17.0	115	111
Mon	Be 73	06 22 05.0	-06 19 06		2.0	15	16.0	136	80
Mon	NGC 2269	06 43 16.8	+04 37 04	10.0	3.0	12	10.0	115	93
Ori	NGC 2141	06 02 56.0	+10 27 00	9.4	10.0	365	15.0	96	72
Ori	NGC 2194	06 13 46.0	+12 48 00	8.5	9.0	194	13.0	96	77
Ori	Be 21	05 51 46.0	+21 48 36	11.1	6.0	194	6.0	77	66
Ori	NGC 2112	05 53 46.0	+00 25 00	9.1	18.0	50	10.0	116	68

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Ori	Cz 24	05 55 26.0	+20 52 42		5.0	35		77	69
Ori	NGC 1980	05 35 26.0	-05 55 00	2.5	15.0	30		116	59
Ori	NGC 2169	06 08 25.0	+13 57 54	5.9	6.0	30	6.9	96	74
Ori	NGC 2186	06 12 08.0	+05 27 30	8.7	5.0	30	12.0	96	76
Ori	NGC 1981	05 35 12.0	-04 26 00	4.2	28.0	20	10.0	116	58
Ori	Be 20	05 32 37.0	+00 11 18		2.0	20	15.0	116	57
Ori	Be 22	05 58 27.0	+07 45 24		1.5	20	15.0	96	70
Ori	Sigma Ori	05 38 45.0	-02 36 00		10.0	4		116	61
Per	NGC 1245	03 14 42.0	+47 14 00	8.4	10.0	200	12.0	43	36
Per	NGC 1528	04 15 19.0	+51 13 00	6.4	18.0	165	10.0	28	42
Per	NGC 1342	03 31 40.0	+37 23 00	6.7	17.0	99	8.0	60	37
Per	King 7	03 59 10.0	+51 47 00		8.0	80	16.0	28	39
Per	M 34	02 42 08.0	+42 45 00	5.2	25.0	60	9.0	43	34
Per	NGC 1513	04 09 55.0	+49 31 00	8.4	12.0	50	11.0	42	41
Per	NGC 1193	03 05 56.0	+44 23 00	12.6	3.0	40	14.0	43	35
Per	Be 12	04 44 24.0	+42 41 12		4.0	30	16.0	42	44
Pup	Mel 71	07 37 30.0	-12 03 00	7.1	8.0	216	10.2	135	152
Pup	M 46	07 41 47.0	-14 49 00	6.1	20.0	186	10.0	135	160
Pup	NGC 2439	07 40 46.0	-31 42 00	6.9	9.0	181	9.0	171	158
Pup	NGC 2533	08 07 00.0	-29 52 00	7.6	6.0	124	9.0	153	183
Pup	M 47	07 36 36.0	-14 29 00	4.4	25.0	117	5.0	135	151
Pup	NGC 2567	08 18 30.0	-30 39 00	7.4	11.0	117	11.0	171	189
Pup	NGC 2489	07 56 16.0	-30 03 54	7.9	5.0	112	11.0	171	178
Pup	M 93	07 44 30.0	-23 51 00	6.2	10.0	80	9.0	153	161
Pup	NGC 2453	07 47 35.0	-27 11 42	8.3	4.0	76	9.5	153	168
Pup	NGC 2509	08 00 48.0	-19 03 00	9.3	12.0	70		153	181
Pup	NGC 2421	07 36 12.0	-20 37 00	8.3	8.0	70	11.0	153	150
Pup	Haf 21	18 01 11.0	-27 12 30	10.3	3.0	51	15.0	153	244
Pup	NGC 2580	08 21 28.0	-30 18 00	9.7	8.0	50		171	190
Pup	NGC 2432	07 40 54.0	-19 05 00	10.2	7.0	50		153	159
Pup	NGC 2479	07 55 06.0	-17 43 00	9.6	11.0	45		134	175
Pup	Ru 53	08 10 50.0	-27 00 00		6.0	40	10.0	153	186
Pup	Haf 10	07 28 36.0	-15 21 54	11.5	3.0	40	15.0	135	145
Pup	Ru 34	07 45 54.0	-20 23 00	9.5	7.0	35	12.0	153	164
Pup	NGC 2414	07 33 13.0	-15 27 12	7.9	6.0	35	8.2	135	148
Pup	Haf 11	07 35 22.0	-27 42 18		5.0	35	16.0	153	149
Pup	Haf 16	07 50 21.0	-25 27 06	10.0	5.0	30	12.0	153	170
Pup	NGC 2425	07 38 18.0	-14 52 42		5.0	30	14.0	135	154
Pup	Ru 37	07 49 47.0	-17 14 48		4.0	30	14.0	134	169
Pup	Tr 9	07 55 40.0	-25 53 12	8.7	6.0	20	10.1	153	177
Pup	Ru 42	07 57 37.0	-25 55 00		4.0	20	14.0	153	179
Pup	Haf 17	07 51 36.0	-31 48 54		2.5	20	15.0	171	172
Pup	NGC 2401	07 29 25.0	-13 58 00	12.6	2.0	20		135	146
Pup	Wa 3	07 55 06.4	-25 21 54		1.9	20	12.9	153	176
Pup	Ru 46	08 02 10.0	-19 27 54	9.1	3.0	15	12.0	153	182
Pup	Ru 35	07 46 14.0	-31 16 48		1.5	10	14.0	171	165
Pyx	NGC 2627	08 37 15.0	-29 57 00	8.4	9.0	60	11.0	152	195
Sco	Eso 518-3	16 47 06.0	-25 49 00		5.0			146	216
Sco	M 6	17 40 17.0	-32 16 00	4.2	33.0	331	5.5	164	235
Sco	Ru 130	17 47 32.0	-30 05 48		3.0	120	14.0	164	239
Sco	NGC 6451	17 50 41.0	-30 13 00	8.2	8.0	80	12.0	164	240
Sct	M 11	18 51 04.0	-06 16 00	5.8	11.0	682	11.0	125	265
Sct	NGC 6649	18 33 28.3	-10 24 08	8.9	6.0	477	13.2	125	259
Sct	M 26	18 45 15.0	-09 23 00	8.0	10.0	120	11.0	125	262

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Sct	NGC 6704	18 50 45.8	-05 12 18	9.2	6.0	71	12.0	105	264
Sct	Tr 35	18 43 00.5	-04 13 31	9.2	6.0	65	11.4	105	260
Sct	NGC 6631	18 27 09.5	-12 02 00	11.7	7.0	30		126	256
Sct	NGC 6639	18 30 57.8	-13 10 14		5.0	25	11.0	126	257
Sct	Archinal 1	18 54 49.4	+05 32 56		1.5	24	13.4	85	268
Ser	NGC 6604	18 18 06.0	-12 13 00	6.5	6.0	105	7.5	126	253
Ser	Cz 38	18 49 47.0	+04 58 00		10.0	80		105	263
Sge	Be 44	19 17 17.0	+19 32 42		2.0	30	16.0	66	272
Sge	Be 47	19 28 27.3	+17 21 27		3.0	20	16.0	66	277
Sgr	Mrk 38	18 15 16.6	-18 59 33		2.0			145	249
Sgr	M 25	18 31 45.0	-19 07 00	4.6	26.0	601	8.0	145	258
Sgr	M 23	17 56 56.0	-19 01 00	5.5	25.0	150	10.0	145	243
Sgr	M 21	18 04 13.0	-22 30 00	5.9	16.0	100	8.0	145	247
Sgr	M24	18 18 28.0	-18 24 24	11.1	4.0	100	14.0	145	254
Sgr	NGC 6520	18 03 25.0	-27 53 30	7.6	5.0	60	9.0	146	246
Sgr	Cr 469	18 16 33.7	-18 18 42	9.1	2.6	51		145	251
Sgr	Tr 32	18 17 10.4	-13 21 00	12.2	12.0	50	11.8	126	252
Sgr	Cr 347	17 46 18.9	-29 20 00	8.8	10.0	40	10.6	146	238
Sgr	M 18	18 20 00.0	-17 06 00	6.9	7.0	40	8.6	126	255
Sgr	NGC 6583	18 15 50.0	-22 08 12	10.0	5.0	35		145	250
Sgr	Cz 37	17 53 16.4	-27 22 19		3.0	35		146	241
Sgr	Cz 32	07 50 28.0	-29 50 54		3.0	30		153	171
Sgr	AL 3	18 14 05.7	-28 38 08		1.3	30		145	248
Sgr	vdB-Ha 245	17 46 14.4	-29 42 05		1.0	12		146	237
Sgr	Bo 14	18 02 00.0	-23 42 00	9.3	2.0	11	10.3	145	245
Tau	NGC 1817	05 12 27.0	+16 41 00	7.7	20.0	283	9.0	97	48
Tau	NGC 1647	04 45 42.2	+19 07 00	6.4	40.0	200	9.0	77	45
Tau	M 45	03 47 29.0	+24 06 00	1.5	120.0	100	3.0	78	38
Vul	NGC 6802	19 30 35.0	+20 15 48	8.8	5.0	201	14.0	66	279
Vul	NGC 6823	19 43 10.0	+23 18 00	7.1	7.0	79	8.8	66	282
Vul	Cr 399	19 26 12.0	+20 06 00	3.6	90.0	40	5.2	66	276
Vul	Be 52	20 14 30.0	+28 56 36		2.0	40	18.0	66	292
Vul	Cz 41	19 50 50.8	+25 18 00		8.0	30		66	284
Vul	NGC 6827	19 48 53.2	+21 12 58		4.0	30	13.0	66	283
Vul	Cz 40	19 42 38.0	+21 09 12		4.0	30		66	281
Vul	Be 83	20 01 25.1	+28 38 36		2.0	20	17.0	66	288