

Messier Observing List

Evening of 2012 Mar 23 at Karoo Starparty

Sunset 18:38, Twilight ends 19:53, Twilight begins 05:12, Sunrise 06:26, Moon rise 07:57, Moon set 18:52
 Completely dark from 19:53 to 05:12. New Moon. All times local (GMT+2).

Listing All Classes visible above the perfect horizon and in complete darkness after 19:53 and before 05:12.

Cls	Primary ID	Alternate ID	Con	Mag	Size	Distance	RA 2000	Dec 2000	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty	Optimum EP
Open	NGC 6994	M 73	Aqr	8.9	9.0'	2000 ly	20h58m55.0s	-12°38'00"	05:08	05:14	05:28	16	124	66	detectable	Ultima 42mm
Glob	NGC 6981	M 72	Aqr	9.2	6.6'	68000 ly	20h53m28.0s	-12°32'12"	05:02	05:14	05:28	16	124	66	difficult	Ultima 42mm
Glob	NGC 7089	M 2	Aqr	6.6	16.0'	49000 ly	21h33m27.0s	-00°49'24"	04:53	05:18	05:30	17	103	77	detectable	Ultima 42mm
Open	NGC 2099	M 37	Aur	6.2	14.0'	4500 ly	05h52m18.0s	+32°33'12"	19:30	19:50	21:13	5	59	12	easy	Ultima 42mm
Open	NGC 1960	M 36	Aur	6.5	10.0'	4300 ly	05h36m18.0s	+34°08'24"	19:28	19:48	21:00	5	59	12	easy	Ultima 42mm
Open	NGC 1912	M 38	Aur	6.8	20.0'	3500 ly	05h28m40.0s	+35°50'54"	19:33	19:47	20:31	5	59	12	detectable	Ultima 42mm
Open	NGC 2682	M 67	Cnc	7.4	25.0'	3000 ly	08h51m18.0s	+11°48'00"	19:36	21:11	23:55	12	94	24	detectable	Ultima 42mm
Open	NGC 2632	M 44	Cnc	3.9	70.0'	610 ly	08h40m24.0s	+19°40'00"	19:32	21:01	23:18	6	74	24	easy	E-Lux 2" 26mm
Glob	NGC 5272	M 3	CVn	6.3	18.0'	42000 ly	13h42m11.0s	+28°22'42"	01:10	02:01	02:53	7	71	44	detectable	Ultima 42mm
Gal	NGC 4736	M 94	CVn	8.7	10.0'x 8.7'	17.0 Mly	12h50m53.1s	+41°07'12"	23:11	01:10	03:09	7	37	43	detectable	Ultima 42mm
Gal	NGC 5055	M 63	CVn	9.3	12.0'x 7.2'	43.0 Mly	13h15m49.3s	+42°01'45"	23:56	01:35	03:13	7	37	43	difficult	Ultima 42mm
Gal	NGC 5194	M 51	CVn	8.7	9.8'x 7.8'	43.0 Mly	13h29m52.3s	+47°11'40"	00:18	01:49	03:20	7	37	43	detectable	Ultima 42mm
Gal	NGC 4258	M 106	CVn	9.1	16.6'x 6.3'	30.0 Mly	12h18m57.6s	+47°18'13"	23:29	00:38	01:48	7	37	43	challenging	Ultima 42mm
Open	NGC 2287	M 41	CMa	5.0	39.0'	2300 ly	06h46m01.0s	-20°45'24"	19:30	19:57	23:24	19	154	27	easy	Celestron Plössl 32mm 2.0x
Glob	NGC 7099	M 30	Cap	6.9	12.0'	39000 ly	21h40m22.0s	-23°10'42"	04:28	05:16	05:30	23	143	77	detectable	Ultima 42mm
Gal	NGC 1068	M 77	Cet	9.7	6.6'x 5.8'	70.0 Mly	02h42m40.8s	-00°00'48"	19:33	19:46	20:05	10	119	6	detectable	Ultima 42mm
Gal	NGC 4254	M 99	Com	10.4	5.1'x 4.6'	70.0 Mly	12h18m49.6s	+14°24'59"	21:52	00:38	03:24	13	91	45	detectable	E-Lux 2" 40mm
Gal	NGC 4501	M 88	Com	10.2	7.8'x 4.8'	70.0 Mly	12h31m59.2s	+14°25'13"	22:05	00:51	03:37	14	91	45	detectable	E-Lux 2" 40mm
Gal	NGC 4548	M 91	Com	10.9	5.4'x 4.6'	70.0 Mly	12h35m26.4s	+14°29'47"	22:13	00:55	03:37	14	91	45	detectable	E-Lux 2" 40mm
Gal	NGC 4192	M 98	Com	10.9	9.5'x 2.3'	70.0 Mly	12h13m48.3s	+14°53'57"	22:08	00:33	02:59	13	91	45	difficult	E-Lux 2" 32mm 2.0x
Gal	NGC 4321	M 100	Com	10.0	7.6'x 6.8'	70.0 Mly	12h22m54.9s	+15°49'21"	22:02	00:43	03:21	13	91	45	detectable	Ultima 42mm
Glob	NGC 5024	M 53	Com	7.7	13.0'	65000 ly	13h12m55.0s	+18°10'12"	23:06	01:32	03:59	14	71	45	detectable	Ultima 42mm
Gal	NGC 4382	M 85	Com	10.0	7.6'x 5.9'	70.0 Mly	12h25m24.1s	+18°11'28"	22:19	00:44	03:12	13	72	45	detectable	Ultima 42mm
Gal	NGC 4826	M 64	Com	9.3	10.0'x 5.0'	12.0 Mly	12h56m43.8s	+21°41'00"	23:11	01:16	03:20	7	71	45	detectable	E-Lux 2" 40mm
Open	NGC 6913	M 29	Cyg	7.5	10.0'	3700 ly	20h23m57.0s	+38°30'30"	05:16	05:28	05:37	9	48	62	difficult	Ultima 42mm
Gal	NGC 5866	M 102	Dra	10.7	6.3'x 2.8'	47.0 Mly	15h06m29.6s	+55°45'48"	02:11	03:25	04:39	2	22	53	not visible	Ultima 42mm 2.0x
Open	NGC 2168	M 35	Gem	5.6	25.0'	3000 ly	06h09m00.0s	+24°21'00"	19:31	19:52	20:12	5	76	25	easy	Ultima 42mm
Glob	NGC 6205	M 13	Her	5.8	20.0'	26000 ly	16h41m41.0s	+36°27'36"	02:40	04:58	05:33	8	50	52	detectable	Ultima 42mm
Glob	NGC 6341	M 92	Her	6.5	14.0'	33000 ly	17h17m07.0s	+43°08'12"	03:42	05:11	05:33	8	34	52	detectable	Ultima 42mm
Gal	NGC 5236	M 83	Hya	7.8	14.1'x 13.2'	15.0 Mly	13h37m00.8s	-29°51'56"	21:19	01:56	05:32	21	167	46	easy	Ultima 42mm
Glob	NGC 4590	M 68	Hya	7.3	11.0'	39000 ly	12h39m28.0s	-26°44'36"	20:41	00:58	05:14	21	150	47	easy	Ultima 42mm
Open	NGC 2548	M 48	Hya	5.5	30.0'	2500 ly	08h13m43.0s	-05°45'00"	19:31	20:34	00:25	12	134	26	easy	Celestron Plössl 32mm 2.0x
Gal	NGC 3351	M 95	Leo	10.6	7.1'x 4.3'	45.0 Mly	10h43m57.7s	+11°42'13"	20:16	23:04	01:52	13	92	34	detectable	Celestron Plössl 32mm
Gal	NGC 3368	M 96	Leo	10.1	7.6'x 5.0'	45.0 Mly	10h46m45.7s	+11°49'12"	20:09	23:06	02:03	13	92	34	detectable	E-Lux 2" 40mm
Gal	NGC 3379	M 105	Leo	10.2	5.0'x 4.6'	45.0 Mly	10h47m49.6s	+12°34'54"	20:14	23:07	02:01	13	92	34	detectable	E-Lux 2" 40mm

Cls	Primary ID	Alternate ID	Con	Mag	Size	Distance	RA 2000	Dec 2000	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty	Optimum EP
Gal	NGC 3627	M 66	Leo	9.7	8.9'x 4.0'	41.0 Mly	11h20m14.9s	+12°59'30"	20:48	23:40	02:31	13	92	34	detectable	Celestron Plössl 32mm
Gal	NGC 3623	M 65	Leo	10.1	8.1'x 2.1'	41.0 Mly	11h18m55.7s	+13°05'32"	20:47	23:39	02:30	13	92	34	detectable	Ultima 2" LX 17 mm
Glob	NGC 1904	M 79	Lep	7.7	9.6'	49000 ly	05h24m11.0s	-24°31'30"	19:32	19:54	22:12	19	155	16	detectable	Ultima 42mm
Glob	NGC 6779	M 56	Lyr	8.4	8.8'	42000 ly	19h16m36.0s	+30°11'06"	04:40	05:17	05:31	8	49	63	difficult	Ultima 42mm
PNe	NGC 6720	M 57	Lyr	9.4	1.4'	2600 ly	18h53m35.1s	+33°01'45"	04:08	05:16	05:34	8	49	63	easy	Celestron Plössl 15mm
Open	NGC 2323	M 50	Mon	7.2	14.0'	3300 ly	07h02m42.0s	-08°23'00"	19:30	19:59	23:19	12	135	27	easy	Ultima 42mm
Glob	NGC 6266	M 62	Oph	6.4	15.0'	26000 ly	17h01m13.0s	-30°06'48"	00:46	05:02	05:37	22	164	58	easy	Ultima 42mm
Glob	NGC 6273	M 19	Oph	6.8	17.0'	23000 ly	17h02m38.0s	-26°16'06"	01:12	05:02	05:35	22	146	56	easy	Ultima 42mm
Glob	NGC 6333	M 9	Oph	7.8	12.0'	26000 ly	17h19m12.0s	-18°31'00"	01:52	05:05	05:34	22	146	56	detectable	Ultima 42mm
Glob	NGC 6171	M 107	Oph	7.8	13.0'	26000 ly	16h32m32.0s	-13°03'12"	01:21	04:50	05:32	15	127	56	detectable	Ultima 42mm
Glob	NGC 6254	M 10	Oph	6.6	20.0'	23000 ly	16h57m09.0s	-04°06'00"	01:43	05:01	05:34	15	107	56	detectable	Ultima 42mm
Glob	NGC 6402	M 14	Oph	7.6	11.0'	23000 ly	17h37m36.0s	-03°14'48"	02:20	05:08	05:33	15	106	56	detectable	Ultima 42mm
Glob	NGC 6218	M 12	Oph	6.1	16.0'	23000 ly	16h47m14.0s	-01°56'48"	01:22	04:58	05:35	15	107	56	easy	Ultima 42mm
Neb	NGC 1976	M 42	Ori	4.0	40.0'x 20.0'		05h35m18.0s	-05°23'00"	19:28	19:53	21:47	11	116	16	easy	Ultima 42mm
Neb	NGC 1982	M 43	Ori	9.0	7.0'x 6.0'		05h35m30.0s	-05°16'00"	19:37	19:53	20:54	11	116	16	challenging	Ultima 42mm
Neb	NGC 2068	M 78	Ori	8.0	8.0'		05h46m48.0s	+00°05'00"	19:37	19:53	20:54	11	116	14	challenging	Ultima 42mm
Glob	NGC 7078	M 15	Peg	6.3	18.0'	42000 ly	21h29m58.0s	+12°10'00"	05:06	05:22	05:32	16	83	75	detectable	Ultima 42mm
Open	NGC 2447	M 93	Pup	6.5	10.0'	3400 ly	07h44m30.0s	-23°51'24"	19:27	20:09	00:36	19	153	26	obvious	Ultima 42mm
Open	NGC 2437	M 46	Pup	6.6	20.0'	4500 ly	07h41m46.0s	-14°48'36"	19:29	20:07	00:04	12	135	26	easy	Ultima 42mm
Open	NGC 2422	M 47	Pup	4.3	25.0'	1600 ly	07h36m35.0s	-14°29'00"	19:27	20:05	00:10	12	135	26	obvious	Ultima 42mm
Glob	NGC 6838	M 71	Sge	8.4	4.0'	16000 ly	19h53m46.0s	+18°46'42"	04:19	05:17	05:34	8	66	64	easy	E-Lux 2" 40mm
Glob	NGC 6637	M 69	Sgr	7.7	9.8'	23000 ly	18h31m23.0s	-32°20'54"	02:19	05:09	05:34	22	163	69	detectable	Ultima 42mm
Glob	NGC 6681	M 70	Sgr	7.8	8.0'	65000 ly	18h43m13.0s	-32°17'30"	02:22	05:10	05:33	22	163	69	easy	Ultima 42mm
Glob	NGC 6809	M 55	Sgr	6.3	19.0'	20000 ly	19h40m00.0s	-30°57'42"	03:14	05:11	05:33	22	162	68	easy	Plössl 4mm 2.0x
Glob	NGC 6715	M 54	Sgr	7.7	12.0'	55000 ly	18h55m03.0s	-30°28'42"	02:52	05:10	05:32	22	163	69	detectable	Ultima 42mm
Glob	NGC 6626	M 28	Sgr	6.9	13.8'	16000 ly	18h24m33.0s	-24°52'12"	02:19	05:09	05:34	22	145	67	easy	Ultima 42mm
Neb	NGC 6523	NGC 6526	Sgr	5.0	17.0'x 15.0'		18h04m02.0s	-24°23'14"	01:50	05:08	05:37	22	145	67	obvious	Ultima 42mm
Glob	NGC 6656	M 22	Sgr	5.2	32.0'	9800 ly	18h36m24.0s	-23°54'12"	02:25	05:10	05:33	22	145	67	easy	Celestron Plössl 32mm
Neb	NGC 6514	M 20	Sgr	6.3	16.0'x 9.0'		18h02m22.0s	-22°59'12"	03:22	05:08	05:28	22	145	67	challenging	Ultima 42mm
Open	NGC 6514	M 20	Sgr	5.2	28.0'	2700 ly	18h02m42.0s	-22°58'18"	01:51	05:09	05:36	22	145	67	easy	Celestron Plössl 32mm 2.0x
Open	NGC 6531	M 21	Sgr	7.2	14.0'	3900 ly	18h04m13.0s	-22°29'24"	02:00	05:08	05:35	22	145	67	easy	Ultima 42mm
Glob	NGC 6864	M 75	Sgr	8.6	6.8'	95000 ly	20h06m05.0s	-21°55'18"	03:56	05:12	05:30	23	144	66	detectable	Ultima 42mm
Open	M 25	IC 4725	Sgr	6.2	29.0'	2000 ly	18h31m47.0s	-19°07'00"	02:44	05:10	05:33	22	145	67	easy	Celestron Plössl 32mm 2.0x
Open	NGC 6494	M 23	Sgr	5.9	29.0'	2000 ly	17h57m04.0s	-18°59'06"	02:07	05:08	05:33	22	146	56	easy	Celestron Plössl 32mm 2.0x
Open	NGC 6603	M 24	Sgr	11.1	6.0'	12000 ly	18h18m26.0s	-18°24'24"	03:59	05:10	05:25	15	145	67	challenging	Ultima 42mm
Open	NGC 6613	M 18	Sgr	7.5	5.0'	4200 ly	18h19m58.0s	-17°06'06"	02:19	05:09	05:38	15	126	67	obvious	E-Lux 2" 40mm
Neb	NGC 6618	M 17	Sgr	6.0	11.0'		18h20m48.0s	-16°11'00"	03:42	05:09	05:29	15	126	67	challenging	Ultima 42mm
Open	NGC 6618	M 17	Sgr	7.3	25.0'	4200 ly	18h20m47.0s	-16°10'18"	02:57	05:09	05:31	15	126	67	detectable	Ultima 42mm
Open	NGC 6475	M 7	Sco	3.3	80.0'	980 ly	17h53m51.0s	-34°47'36"	01:23	05:07	05:36	22	164	58	easy	Celestron Plössl 32mm
Open	NGC 6405	M 6	Sco	4.6	20.0'	1600 ly	17h40m20.0s	-32°15'12"	01:13	05:07	05:39	22	164	58	obvious	Ultima 42mm
Glob	NGC 6121	M 4	Sco	5.4	36.0'	9800 ly	16h23m36.0s	-26°31'30"	00:32	04:42	05:34	22	147	57	easy	Celestron Plössl 32mm
Glob	NGC 6093	M 80	Sco	7.3	10.0'	36000 ly	16h17m02.0s	-22°58'30"	00:19	04:35	05:34	22	147	57	easy	Ultima 42mm
Open	NGC 6694	M 26	Sct	9.0	7.0'	5200 ly	18h45m18.0s	-09°23'00"	03:08	05:11	05:32	16	125	67	detectable	Ultima 42mm
Open	NGC 6705	M 11	Sct	6.1	32.0'	6100 ly	18h51m05.0s	-06°16'12"	03:17	05:11	05:32	16	125	67	easy	Celestron Plössl 32mm 2.0x
Glob	NGC 5904	M 5	Ser	5.7	23.0'	29000 ly	15h18m34.0s	+02°05'00"	00:06	03:37	05:32	14	108	55	easy	Celestron Plössl 32mm 2.0x

Cls	Primary ID	Alternate ID	Con	Mag	Size	Distance	RA 2000	Dec 2000	Begin	Optimum	End	S.A.	Ur. 2	PSA	Difficulty	Optimum EP
Neb	M 16	IC 4703	Ser	6.0	9.0'x 4.0'		18h18m48.4s	-13°49'10"	03:43	05:10	05:28	15	126	67	challenging	Ultima 42mm
Open	NGC 6611	M 16	Ser	6.5	6.0'	5700 ly	18h18m48.0s	-13°48'24"	02:26	05:10	05:39	15	126	67	obvious	Ultima 42mm
Neb	NGC 1952	M 1	Tau	8.4	8.0'		05h34m30.0s	+22°01'00"	19:40	19:51	19:55	5	77	14	very challenging	Ultima 42mm
Open	M 45	Pleiades	Tau	1.5	120.0'	490 ly	03h47m00.0s	+24°07'00"	19:28	19:44	20:17	4	78	15	easy	Plössl 4mm
Gal	NGC 3992	M 109	UMa	10.5	7.4'x 4.9'	64.0 Mly	11h57m35.9s	+53°22'28"	22:55	00:16	01:40	2	24	32	not visible	E-Lux 2" 40mm
Gal	NGC 5457	M 101	UMa	8.4	21.9'x 21.4'	28.0 Mly	14h03m12.4s	+54°20'53"	00:59	02:22	03:44	2	23	42	not visible	Ultima 42mm
PNe	NGC 3587	M 97	UMa	11.0	3.4'	2000 ly	11h14m47.7s	+55°01'09"	22:13	23:35	00:54	2	24	32	not visible	Celestron Plössl 32mm
Gal	NGC 3556	M 108	UMa	10.7	5.4'x 1.9'	53.0 Mly	11h11m31.0s	+55°40'26"	22:15	23:31	00:47	2	24	32	not visible	Celestron Plössl 15mm
Doub	M 40	HD 238107	UMa	9.6		510 ly	12h22m12.5s	+58°04'58"	00:22	00:42	01:01	2	24	43	not visible	Ultima 42mm
Gal	NGC 4594	M 104	Vir	9.1	9.1'x 5.6'	60.0 Mly	12h39m59.3s	-11°37'22"	20:57	00:59	05:02	14	130	47	easy	Ultima 42mm
Gal	NGC 4303	M 61	Vir	10.2	6.3'x 5.8'	70.0 Mly	12h21m55.0s	+04°28'29"	21:25	00:41	03:57	13	111	45	detectable	Ultima 42mm
Gal	NGC 4472	M 49	Vir	9.3	9.3'x 7.6'	70.0 Mly	12h29m46.8s	+08°00'01"	21:37	00:49	04:01	13	91	45	detectable	Ultima 42mm
Gal	NGC 4649	M 60	Vir	9.8	7.4'x 6.3'	70.0 Mly	12h43m40.1s	+11°33'10"	22:04	01:03	04:02	14	90	45	detectable	Ultima 42mm
Gal	NGC 4621	M 59	Vir	10.7	4.8'x 3.3'	70.0 Mly	12h42m02.3s	+11°38'52"	22:02	01:01	03:58	14	90	45	detectable	E-Lux 2" 26mm
Gal	NGC 4579	M 58	Vir	10.5	5.6'x 4.4'	70.0 Mly	12h37m43.9s	+11°49'06"	21:59	00:56	03:54	14	90	45	detectable	E-Lux 2" 40mm
Gal	NGC 4486	M 87	Vir	9.6	7.9'x 7.4'	70.0 Mly	12h30m49.2s	+12°23'29"	21:55	00:50	03:45	14	91	45	detectable	Ultima 42mm
Gal	NGC 4552	M 89	Vir	10.7	6.9'x 6.6'	70.0 Mly	12h35m39.9s	+12°33'22"	22:18	00:55	03:31	14	91	45	difficult	Ultima 42mm
Gal	NGC 4374	M 84	Vir	10.1	6.3'x 5.5'	70.0 Mly	12h25m03.9s	+12°53'12"	21:51	00:44	03:38	13	91	45	detectable	Ultima 42mm
Gal	NGC 4406	M 86	Vir	9.8	10.0'x 7.4'	70.0 Mly	12h26m12.2s	+12°56'44"	21:54	00:45	03:37	13	91	45	detectable	Ultima 42mm
Gal	NGC 4569	M 90	Vir	10.1	9.5'x 4.5'	70.0 Mly	12h36m50.0s	+13°09'45"	22:04	00:55	03:47	14	90	45	detectable	E-Lux 2" 40mm
PNe	NGC 6853	M 27	Vul	7.3	8.0'	1100 ly	19h59m36.3s	+22°43'16"	04:32	05:18	05:34	8	66	64	detectable	Ultima 42mm

Symbol Key:

Open	Open Cluster	Doub	Double or Multiple Star	Con	Constellation
Glob	Globular Cluster	Bin	Binary Star (with orbit)	MSS	Major Solar System Object
PNe	Planetary Nebula	Var	Variable Star	Com	Comet
Neb	Diffuse Nebula	DVar	Double & Variable	MP	Minor Planet
Gal	Galaxy	BVar	Binary & Variable		
GalCl	Galaxy Cluster				
Dark	Dark Nebula				
QSO	Quasar				

Observation status: Y = observed, N = not observed, R = re-observe

Quality of opportunity (Q): A = optimum, B = near optimum, F = far from optimum