

Messier Observing List, evening of 2015 Oct 15 at Cleveland, Ohio

Sunset 17:49, Twilight ends 19:18, Twilight begins 05:07, Sunrise 06:36, Moon rise 09:51, Moon set 19:35

Completely dark from 19:35 to 05:07. Waxing Crescent Moon. All times local (EST).

Listing All Classes visible above the perfect horizon and in twilight or moonlight before 23:59.

Cls	Primary ID	Alternate ID	Con	RA (Ap)	Dec (Ap)	Mag	Size	Distance	Rise	Transit	Set
Gal	Cigar Galaxy	M 82	UMa	09h57m06.5s	+69°35'59"	9	9.3'x 4.4'	12.0 Mly	-	8:45	-
Gal	Bode's Galaxy	M 81	UMa	09h56m46.5s	+68°59'08"	7.8	21.9'x 10.5'	12.0 Mly	-	8:45	-
Open	M 52	NGC 7654	Cas	23h25m33.9s	+61°41'03"	8.2	15.0'	4600 ly	-	22:15	-
Open	M 103	NGC 581	Cas	01h34m30.0s	+60°43'50"	6.9	5.0'	7200 ly	-	0:24	-
Doub	M 40	HD 238107	UMa	12h22m54.4s	+57°59'43"	9.6		510 ly	-	11:10	-
Gal	M 102	NGC 5866	Dra	15h06m52.8s	+55°42'28"	10.7	6.3'x 2.8'	47.0 Mly	-	13:58	-
Gal	M 108	NGC 3556	UMa	11h12m23.2s	+55°35'10"	10.7	5.4'x 1.9'	53.0 Mly	-	10:00	-
PNe	Owl Nebula	M 97	UMa	11h15m39.4s	+54°55'52"	9.7	3.4'	2000 ly	-	10:03	-
Gal	M 101	NGC 5457	UMa	14h03m43.0s	+54°16'32"	8.4	21.9'x 21.4'	28.0 Mly	-	12:55	-
Gal	M 109	NGC 3992	UMa	11h58m21.9s	+53°17'10"	10.5	7.4'x 4.9'	64.0 Mly	-	10:46	-
PNe	Little Dumbbell	M 76	Per	01h43m22.7s	+51°39'16"	10.1	2.7'	2400 ly	-	0:32	-
Open	M 39	NGC 7092	Cyg	21h32m23.6s	+48°30'35"	5.3	29.0'	1100 ly	-	20:22	-
Gal	M 106	NGC 4258	CVn	12h19m41.8s	+47°12'59"	9.1	16.6'x 6.3'	30.0 Mly	23:28	11:07	22:50
Gal	Whirlpool Galaxy	M 51	CVn	13h30m29.6s	+47°06'57"	8.7	9.8'x 7.8'	43.0 Mly	0:47	12:22	23:53
Glob	M 92	NGC 6341	Her	17h17m35.0s	+43°07'38"	6.5	14.0'	33000 ly	6:06	16:08	2:07
Open	M 34	NGC 1039	Per	02h43m08.3s	+42°49'38"	5.8	35.0'	1600 ly	15:38	1:32	11:27
Gal	Sunflower Galaxy	M 63	CVn	13h16m29.4s	+41°56'54"	9.3	12.0'x 7.2'	43.0 Mly	2:20	12:08	21:51
Gal	M 110	NGC 205	And	00h41m16.3s	+41°46'27"	8.9	17.8'x 9.8'	2.6 Mly	13:49	23:31	9:12
Gal	Andromeda Galaxy	M 31	And	00h43m38.4s	+41°21'25"	4.3	2.6°x 1.1°	2.6 Mly	13:56	23:33	9:10
Gal	M 94	NGC 4736	CVn	12h51m35.4s	+41°02'09"	8.7	10.0'x 8.7'	17.0 Mly	2:05	11:39	21:16
Gal	M 32	NGC 221	And	00h43m35.9s	+40°57'15"	8.9	8.5'x 5.9'	2.6 Mly	14:00	23:33	9:05
Open	M 29	NGC 6913	Cyg	20h24m32.5s	+38°34'01"	7.5	10.0'	3700 ly	10:01	19:15	4:24
Glob	Keystone Cluster	M 13	Her	16h42m13.6s	+36°26'13"	5.8	20.0'	26000 ly	6:37	15:33	0:25
Open	M 38	NGC 1912	Aur	05h29m44.5s	+35°51'24"	6.8	20.0'	3500 ly	19:30	4:18	13:10
Open	M 36	NGC 1960	Aur	05h37m21.5s	+34°08'44"	6.5	10.0'	4300 ly	19:50	4:26	13:05
PNe	Ring Nebula	M 57	Lyr	18h54m10.0s	+33°03'24"	9.4	1.4'	2600 ly	9:12	17:44	2:13
Open	M 37	NGC 2099	Aur	05h53m20.6s	+32°33'10"	6.2	14.0'	4500 ly	20:16	4:42	13:11
Gal	Pinwheel Galaxy	M 33	Tri	01h34m46.2s	+30°44'28"	6.4	61.7'x 36.3'	2.9 Mly	16:10	0:24	8:38
Glob	M 56	NGC 6779	Lyr	19h17m12.9s	+30°13'14"	8.4	8.8'	42000 ly	9:52	18:07	2:19
Glob	M 3	NGC 5272	CVn	13h42m52.8s	+28°18'08"	6.3	18.0'	42000 ly	4:29	12:34	20:35
Open	M 35	NGC 2168	Gem	06h09m58.5s	+24°20'38"	5.6	25.0'	3000 ly	21:18	4:58	12:43
Open	Pleiades	M 45	Tau	03h47m57.7s	+24°09'48"	1.5	120.0'	490 ly	18:57	2:37	10:17
PNe	Dumbbell	M 27	Vul	20h00m17.4s	+22°46'16"	7.3	8.0'	1100 ly	11:13	18:50	2:24
Neb	Crab Nebula	M 1	Tau	05h35m27.7s	+22°01'26"	8.4	8.0'		20:54	4:24	11:54
Gal	Black Eye Galaxy	M 64	Com	12h57m28.7s	+21°36'01"	9.3	10.0'x 5.0'	12.0 Mly	4:17	11:45	19:17
Glob	M 71	NGC 6838	Sge	19h54m28.3s	+18°49'34"	8.4	4.0'	16000 ly	11:25	18:45	2:01
Gal	M 85	NGC 4382	Com	12h26m10.3s	+18°06'20"	10	7.6'x 5.9'	70.0 Mly	4:01	11:14	18:30
Glob	M 53	NGC 5024	Com	13h13m39.8s	+18°05'21"	7.7	13.0'	65000 ly	4:48	12:05	19:18
Gal	M 74	NGC 628	Psc	01h37m34.2s	+15°51'52"	9.7	9.5'x 8.9'		17:23	0:27	7:31
Gal	M 100	NGC 4321	Com	12h23m41.4s	+15°44'13"	10	7.6'x 6.8'	70.0 Mly	4:08	11:11	18:18
Gal	M 98	NGC 4192	Com	12h14m35.1s	+14°48'48"	10.9	9.5'x 2.3'	70.0 Mly	4:02	11:02	18:06
Gal	M 91	NGC 4548	Com	12h36m12.6s	+14°24'42"	10.9	5.4'x 4.6'	70.0 Mly	4:25	11:24	18:26
Gal	M 88	NGC 4501	Com	12h32m45.5s	+14°20'08"	10.2	7.8'x 4.8'	70.0 Mly	4:22	11:20	18:22
Gal	St. Katherine's Wheel	M 99	Com	12h19m36.2s	+14°19'51"	10.4	5.1'x 4.6'	70.0 Mly	4:09	11:07	18:09
Gal	M 90	NGC 4569	Vir	12h37m36.3s	+13°04'41"	10.1	9.5'x 4.5'	70.0 Mly	4:32	11:25	18:22
Gal	M 86	NGC 4406	Vir	12h26m58.7s	+12°51'37"	9.8	10.0'x 7.4'	70.0 Mly	4:22	11:14	18:10
Gal	M 84	NGC 4374	Vir	12h25m50.5s	+12°48'05"	10.1	6.3'x 5.5'	70.0 Mly	4:21	11:13	18:09
Gal	M 89	NGC 4552	Vir	12h36m26.3s	+12°28'18"	10.7	6.9'x 6.6'	70.0 Mly	4:33	11:24	18:18

Gal	M 87	NGC 4486	Vir	12h31m35.6s	+12°18'23"	9.6	7.9'x 7.4'	70.0 Mly	4:29	11:19	18:13
Glob	M 15	NGC 7078	Peg	21h30m44.4s	+12°14'27"	6.3	18.0'	42000 ly	13:31	20:21	3:10
Gal	M 58	NGC 4579	Vir	12h38m30.3s	+11°44'02"	10.5	5.6'x 4.4'	70.0 Mly	4:38	11:26	18:18
Gal	M 59	NGC 4621	Vir	12h42m48.6s	+11°33'49"	10.7	4.8'x 3.3'	70.0 Mly	4:43	11:30	18:21
Gal	M 60	NGC 4649	Vir	12h44m26.4s	+11°28'08"	9.8	7.4'x 6.3'	70.0 Mly	4:45	11:32	18:22
Gal	M 49	NGC 4472	Vir	12h30m33.6s	+07°54'56"	9.3	9.3'x 7.6'	70.0 Mly	4:44	11:18	17:55
Glob	M 5	NGC 5904	Ser	15h19m20.7s	+02°01'50"	5.7	23.0'	29000 ly	7:54	14:10	20:23
Neb	M 78	NGC 2068	Ori	05h47m37.1s	+00°05'16"	8	8.0'		22:30	4:36	10:42
Gal	M 77	NGC 1068	Cet	02h43m30.5s	+00°03'13"	9.7	6.6'x 5.8'	70.0 Mly	19:27	1:32	7:38
Glob	M 2	NGC 7089	Aqr	21h34m16.2s	-00°44'58"	6.6	16.0'	49000 ly	14:21	20:24	2:27
Glob	M 12	NGC 6218	Oph	16h48m02.3s	-01°58'11"	6.1	16.0'	23000 ly	9:36	15:39	21:37
Glob	M 14	NGC 6402	Oph	17h38m25.0s	-03°15'03"	7.6	11.0'	23000 ly	10:31	16:29	22:23
Glob	M 10	NGC 6254	Oph	16h57m58.1s	-04°07'10"	6.6	20.0'	23000 ly	9:54	15:49	21:39
Neb	M 43	NGC 1982	Ori	05h36m17.2s	-05°15'27"	9	7.0'x 6.0'		22:38	4:25	10:11
Neb	Great Orion Nebula	M 42	Ori	05h36m05.2s	-05°22'26"	4	40.0'x 20.0'		22:38	4:25	10:11
Open	Wild Duck Cluster	M 11	Sct	18h51m55.4s	-06°14'47"	6.1	32.0'	6100 ly	11:55	17:42	23:25
Open	M 26	NGC 6694	Sct	18h46m09.6s	-09°21'44"	9	7.0'	5200 ly	12:04	17:36	23:08
Glob	M 72	NGC 6981	Aqr	20h54m20.2s	-12°28'25"	9.2	6.6'	68000 ly	14:24	19:44	1:05
Open	M 73	NGC 6994	Aqr	20h59m47.2s	-12°34'08"	8.9	9.0'	2000 ly	14:29	19:50	1:10
Glob	M 107	NGC 6171	Oph	16h33m24.1s	-13°04'56"	7.8	13.0'	26000 ly	10:02	15:24	20:42
Open	Star Queen	M 16	Ser	18h19m41.2s	-13°47'46"	6.5	6.0'	5700 ly	11:51	17:10	22:26
Neb	Eagle Nebula	M 16	Ser	18h19m41.6s	-13°48'32"	6	9.0'x 4.0'		11:51	17:10	22:26
Open	M 17	NGC 6618	Sgr	18h21m41.1s	-16°09'38"	7.3	25.0'	4200 ly	12:06	17:12	22:18
Neb	Omega Nebula	M 17	Sgr	18h21m42.1s	-16°10'20"	6	11.0'		12:06	17:12	22:18
Open	M 18	NGC 6613	Sgr	18h20m52.4s	-17°05'27"	7.5	5.0'	4200 ly	12:08	17:11	22:14
Open	M 24	NGC 6603	Sgr	18h19m21.0s	-18°23'48"	11.1	6.0'	12000 ly	12:12	17:10	22:07
Glob	M 9	NGC 6333	Oph	17h20m06.7s	-18°31'44"	7.8	12.0'	26000 ly	11:10	16:11	21:08
Open	M 23	NGC 6494	Sgr	17h57m59.1s	-18°58'59"	5.9	29.0'	2000 ly	11:49	16:48	21:44
Open	M 25	IC 4725	Sgr	18h32m42.3s	-19°06'06"	6.2	29.0'	2000 ly	12:28	17:23	22:18
Glob	M 75	NGC 6864	Sgr	20h07m00.7s	-21°52'25"	8.6	6.8'	95000 ly	14:14	18:57	23:40
Open	M 21	NGC 6531	Sgr	18h05m09.6s	-22°29'08"	7.2	14.0'	3900 ly	12:15	16:56	21:36
Open	M 20	NGC 6514	Sgr	18h03m38.8s	-22°58'05"	5.2	28.0'	2700 ly	12:16	16:54	21:32
Neb	Trifid Nebula	M 20	Sgr	18h03m18.8s	-22°58'59"	6.3	16.0'x 9.0'		12:15	16:54	21:32
Glob	M 80	NGC 6093	Sco	16h17m57.6s	-23°00'36"	7.3	10.0'	36000 ly	10:26	15:09	19:47
Glob	M 30	NGC 7099	Cap	21h41m16.1s	-23°06'17"	6.9	12.0'	39000 ly	15:53	20:31	1:09
Glob	M 22	NGC 6656	Sgr	18h37m21.3s	-23°53'13"	5.2	32.0'	9800 ly	12:53	17:28	22:02
Neb	Lagoon Nebula	M 8	Sgr	18h04m59.4s	-24°22'59"	5	17.0'x 15.0'		12:23	16:55	21:28
Glob	M 28	NGC 6626	Sgr	18h25m30.7s	-24°51'30"	6.9	13.8'	16000 ly	12:46	17:16	21:46
Glob	M 19	NGC 6273	Oph	17h03m35.7s	-26°17'15"	6.8	17.0'	23000 ly	11:27	15:54	20:17
Glob	M 4	NGC 6121	Sco	16h24m33.1s	-26°33'29"	5.4	36.0'	9800 ly	10:49	15:15	19:37
Glob	M 62	NGC 6266	Oph	17h02m12.4s	-30°08'00"	6.4	15.0'	26000 ly	11:45	15:53	19:57
Glob	M 54	NGC 6715	Sgr	18h56m03.1s	-30°27'21"	7.7	12.0'	55000 ly	13:44	17:46	21:49
Glob	M 55	NGC 6809	Sgr	19h40m59.7s	-30°55'23"	6.3	19.0'	20000 ly	14:31	18:31	22:31
Open	Butterfly Cluster	M 6	Sco	17h41m21.0s	-32°15'32"	4.6	20.0'	1600 ly	12:39	16:32	20:24
Glob	M 70	NGC 6681	Sgr	18h44m14.1s	-32°16'25"	7.8	8.0'	65000 ly	13:42	17:34	21:27
Glob	M 69	NGC 6637	Sgr	18h32m24.2s	-32°20'05"	7.7	9.8'	23000 ly	13:31	17:23	21:15
Open	M 7	NGC 6475	Sco	17h54m53.4s	-34°47'38"	3.3	80.0'	980 ly	13:08	16:45	20:23