MAS Messier Marathon - April 2nd, 2022

Name: _____ **E-Mail:** _____ **Used GOTO:** yes or no

Catalog Number	Type	Mag	Size (Arcmin)	Constellation	Right Ascension	Declination	Rise	Set	Polar	Max Alt°	@ time	Observation Time and Notes
M1 (NGC 1952)	Supernova Remnant	8.4	6x4	Taurus	5h 34.5m	+22° 01′	xx:xx	1:26		59.87	19:40	
M2 (NGC 7089)	Globular Cluster	6.5	12.9	Aquarius	21h 33.5m	+00° 49′	4:02	xx:xx		28.42	6:48	
M3 (NGC 5272)	Globular Cluster	6.2	16.2	Canes Venatici	13h 42.2m	+28° 23′	xx:xx	xx:xx		74.19	2:07	
M4 (NGC 6121)	Globular Cluster	5.6	26.3	Scorpius	16h 23.6m	-26° 32′	0:45	xx:xx		19.27	4:48	
M5 (NGC 5904)	Globular Cluster	5.6	17.4	Serpens Caput	15h 18.6m	+02° 05′	21:36	xx:xx		47.89	3:43	
M6 (NGC 6405)	Open Cluster	4.2	25	Scorpius	17h 40.1m	-32° 13′	2:36	xx:xx		13.59	6:04	
M7 (NGC 6475)	Open Cluster	3.3	80	Scorpius	17h 53.9m	-34° 49′	3:09	xx:xx		10.99	6:18	
M8 (NGC 6523)	Diffuse Nebula	6	90x40	Sagittarius	18h 03.8m	-24° 23′	2:14	xx:xx		21.42	6:28	
M9 (NGC 6333)	Globular Cluster	7.7	9.3	Ophiuchus	17h 19.2m	-18° 31′	1:01	xx:xx		27.29	5:44	
M10 (NGC 6254)	Globular Cluster	6.6	15.1	Ophiuchus	16h 57.1m	-04° 06′	23:39	xx:xx		41.7	5:22	
M11 (NGC 6705)	Open Cluster	6.3	14	Scutum	18h 51.1m	-06° 16′	1:41	xx:xx		39.17	6:48	
M12 (NGC 6218)	Globular Cluster	6.7	14.5	Ophiuchus	16h 47.2m	-01° 57′	23:20	xx:xx		43.85	5:12	
M13 (NGC 6205)	Globular Cluster	5.8	16.6	Hercules	16h 41.7m	+36° 28′	20:04	xx:xx		82.27	5:06	
M14 (NGC 6402)	Globular Cluster	7.6	11.7	Ophiuchus	17h 37.6m	-03° 15′	0:16	xx:xx		42.55	6:02	
M15 (NGC 7078)	Globular Cluster	6.2	12.3	Pegasus	21h 30m	+12° 10′	3:07	xx:xx		39.03	6:48	
M16 (NGC 6611)	Open Cluster	6.4	7	Serpens Cauda	18h 18.8m	-13° 47′	1:40	xx:xx		31.84	6:43	
M17 (NGC 6618)	Diffuse Nebula	7	11	Sagittarius	18h 20.8m	-16° 11′	1:52	xx:xx		29.62	6:45	
M18 (NGC 6613)	Open Cluster	7.5	9	Sagittarius	18h 19.9m	-17° 08′	1:55	xx:xx		28.67	6:44	
M19 (NGC 6273)	Globular Cluster	6.8	13.5	Ophiuchus	17h 02.6m	-26° 16′	1:23	xx:xx		19.54	5:27	
M20 (NGC 6514)	Diffuse Nebula	9	28	Sagittarius	18h 02.6m	-23° 02′	2:05	xx:xx		22.77	6:27	
M21 (NGC 6531)	Open Cluster	6.5	13	Sagittarius	18h 04.6m	-22° 30′	2:05	xx:xx		23.3	6:29	
M22 (NGC 6656)	Globular Cluster	5.1	24	Sagittarius	18h 36.4m	-23° 54′	2:44	xx:xx		21.85	6:48	
M23 (NGC 6494)	Open Cluster	6.9	27	Sagittarius	17h 56.8m	-19° 01′	1:40	xx:xx		26.79	6:21	
M24	Milky Way Patch	4.6	90	Sagittarius	18h 16.9m	-18° 30′	1:59	xx:xx		26.97	6:41	
M25 (IC 4725)	Open Cluster	6.5	40	Sagittarius	18h 31.6m	-19° 15′	2:16	xx:xx		26.53	6:48	
M26 (NGC 6694)	Open Cluster	8	15	Scutum	18h 45.2m	-09° 24′	1:47	xx:xx		36.19	6:48	
M27 (NGC 6853)	Planetary Nebula	7.4	8.0x5.7	Vulpecula	19h 59.6m	+22° 43′	0:49	xx:xx		60.93	6:48	
M28 (NGC 6626)	Globular Cluster	6.8	11.2	Sagittarius	18h 24.5m	-24° 52′	2:37	xx:xx		20.94	6:48	
M29 (NGC 6913)	Open Cluster	7.1	7	Cygnus	20h 23.9m	+38° 32′	23:27	xx:xx		66.97	6:48	
M30 (NGC 7099)	Globular Cluster	7.2	11	Capricornus	21h 40.4m	-23° 11′	5:43	xx:xx		9.06	6:48	-- not possible --
M31 (NGC 224)	Spiral Galaxy	3.4	178x63	Andromeda	0h 41.8m	+41° 16′	3:13	22:49		24.6	6:48	-- not possible --
M32 (NGC 221)	Eliptical Galaxy	8.1	8x6	Andromeda	0h 42.8m	+40° 52′	3:19	22:44		24.35	6:48	-- not possible --
M33 (NGC 598)	Spiral Galaxy	5.7	73x45	Triangulum	1h 33.9m	+30° 39′	5:38	22:13		24.2	19:40	-- not possible --
M34 (NGC 1039)	Open Cluster	5.5	35	Perseus	2h 42m	+42° 47′	4:50	1:08		42.18	19:40	
M35 (NGC 2168)	Open Cluster	5.3	28	Gemini	6h 08.9m	+24° 20′	xx:xx	2:12		66.16	19:40	
M36 (NGC 1960)	Open Cluster	6.3	12	Auriga	5h 36.1m	+34° 08′	xx:xx	2:37		68.71	19:40	
M37 (NGC 2099)	Open Cluster	6.2	24	Auriga	5h 52.4m	+32° 33′	xx:xx	2:43		70.37	19:40	

MAS Messier Marathon - April 2nd, 2022

Name: _____ **E-Mail:** _____ **Used GOTO:** yes or no

Catalog Number	Type	Mag	Size (Arcmin)	Constellation	Right Ascension	Declination	Rise	Set	Polar	Max Alt°	@ time	Observation Time and Notes
M38 (NGC 1912)	Open Cluster	7.4	21	Auriga	5h 28.7m	+35° 50′	xx:xx	2:43		68.37	19:40	
M39 (NGC 7092)	Open Cluster	4.6	32	Cygnus	21h 32.2m	+48° 26′	xx:xx	xx:xx	Y	57.77	6:48	
M40 (WNC 4)	Double Star	8.4	0.8	Ursa Major	12h 22.4m	+58° 05′	xx:xx	xx:xx	Y	76.11	0:48	
M41 (NGC 2287)	Open Cluster	4.6	38	Canis Major	6h 47m	-20° 44′	xx:xx	23:40		24.78	19:40	
M42 (NGC 1976)	Diffuse Nebula	4	85x60	Orion	5h 35.4m	-05° 27′	xx:xx	23:34		35.66	19:40	
M43 (NGC 1982)	Diffuse Nebula	9	20x15	Orion	5h 35.6m	-05° 16′	xx:xx	23:35		35.85	19:40	
M44 (NGC 2632)	Open Cluster	3.7	95	Cancer	8h 40.1m	+19° 59′	xx:xx	4:21		65.79	21:06	
M45	Open Cluster	1.6	110	Taurus	3h 47m	+24° 07′	xx:xx	23:49		43.7	19:40	
M46 (NGC 2437)	Open Cluster	6	27	Puppis	7h 41.8m	-14° 49′	xx:xx	1:02		30.99	20:08	
M47 (NGC 2422)	Open Cluster	5.2	30	Puppis	7h 36.6m	-14° 30′	xx:xx	0:58		31.3	20:03	
M48 (NGC 2548)	Open Cluster	5.5	54	Hydra	8h 13.8m	-05° 48′	xx:xx	2:11		40	20:40	
M49 (NGC 4472)	Eliptical Galaxy	8.4	9x7.5	Virgo	12h 29.8m	+08° 00′	xx:xx	xx:xx		53.8	0:55	
M50 (NGC 2323)	Open Cluster	6.3	16	Monoceros	7h 03.2m	-08° 20′	xx:xx	0:50		37.42	19:40	
M51 (NGC 5194)	Spiral Galaxy	8.4	11x7	Canes Venatici	13h 30m	+47° 11′	xx:xx	xx:xx	Y	87	1:55	
M52 (NGC 7654)	Open Cluster	7.3	13	Cassiopeia	23h 24.2m	+61° 35′	xx:xx	xx:xx	Y	44.54	6:48	
M53 (NGC 5024)	Globular Cluster	7.6	12.6	Coma Berenices	13h 12.9m	+18° 10′	xx:xx	xx:xx		63.97	1:38	
M54 (NGC 6715)	Globular Cluster	7.6	9.1	Sagittarius	18h 55.1m	-30° 29′	3:40	xx:xx		14.99	6:48	
M55 (NGC 6809)	Globular Cluster	6.3	19	Sagittarius	19h 40m	-30° 58′	4:28	xx:xx		12.87	6:48	
M56 (NGC 6779)	Globular Cluster	8.3	7.1	Lyra	19h 16.6m	+30° 11′	23:24	xx:xx		72.57	6:48	
M57 (NGC 6720)	Planetary Nebula	8.8	1.4x1.0	Lyra	18h 53.6m	+33° 02′	22:42	xx:xx		77.46	6:48	
M58 (NGC 4579)	Barred Galaxy	9.7	5.5x4.5	Virgo	12h 37.7m	+11° 49′	xx:xx	xx:xx		57.62	1:03	
M59 (NGC 4621)	Eliptical Galaxy	9.6	5x3.5	Virgo	12h 42m	+11° 39′	xx:xx	xx:xx		57.45	1:07	
M60 (NGC 4649)	Eliptical Galaxy	8.8	7x6	Virgo	12h 43.7m	+11° 33′	xx:xx	xx:xx		57.35	1:09	
M61 (NGC 4303)	Spiral Galaxy	9.7	6x5.5	Virgo	12h 21.9m	+04° 28′	xx:xx	xx:xx		50.27	0:47	
M62 (NGC 6266)	Globular Cluster	6.5	14.1	Ophiuchus	17h 01.2m	-30° 07′	1:44	xx:xx		15.69	5:26	
M63 (NGC 5055)	Spiral Galaxy	8.6	10x6	Canes Venatici	13h 15.8m	+42° 02′	xx:xx	xx:xx		87.84	1:41	
M64 (NGC 4826)	Spiral Galaxy	8.5	9.3x5.4	Coma Berenices	12h 56.7m	+21° 41′	xx:xx	xx:xx		67.49	1:22	
M65 (NGC 3623)	Spiral Galaxy	9.3	8x1.5	Leo	11h 18.9m	+13° 05′	xx:xx	6:30		58.89	23:44	
M66 (NGC 3627)	Spiral Galaxy	8.9	8x2.5	Leo	11h 20.2m	+12° 59′	xx:xx	6:31		58.79	23:46	
M67 (NGC 2682)	Open Cluster	6.1	30	Cancer	8h 50.4m	+11° 49′	xx:xx	3:56		57.62	21:16	
M68 (NGC 4590)	Globular Cluster	7.8	12	Hydra	12h 39.5m	-26° 45′	21:03	5:00		19.05	1:05	
M69 (NGC 6637)	Globular Cluster	7.6	7.1	Sagittarius	18h 31.4m	-32° 21′	3:28	xx:xx		13.44	6:48	
M70 (NGC 6681)	Globular Cluster	7.9	7.8	Sagittarius	18h 43.2m	-32° 18′	3:40	xx:xx		13.38	6:48	
M71 (NGC 6838)	Globular Cluster	8.2	7.2	Sagitta	19h 53.8m	+18° 47′	1:02	xx:xx		58.43	6:48	
M72 (NGC 6981)	Globular Cluster	9.3	5.9	Aquarius	20h 53.5m	-12° 32′	4:08	xx:xx		23.9	6:48	
M73 (NGC 6994)	Asterism	9	2.8	Aquarius	20h 59m	-12° 38′	4:14	xx:xx		23.17	6:48	
M74 (NGC 628)	Spiral Galaxy	9.4	10.2x9.5	Pisces	1h 36.7m	+15° 47′	xx:xx	21:01		15.02	19:40	-- not possible --

MAS Messier Marathon - April 2nd, 2022

Name: _____ **E-Mail:** _____ **Used GOTO:** yes or no

Catalog Number	Type	Mag	Size (Arcmin)	Constellation	Right Ascension	Declination	Rise	Set	Polar	Max Alt°	@ time	Observation Time and Notes
M75 (NGC 6864)	Globular Cluster	8.5	6	Sagittarius	20h 06.1m	-21° 55′	4:03	xx:xx		19.89	6:48	
M76 (NGC 650)	Planetary Nebula	10.1	2.7x1.8	Perseus	1h 42.4m	+51° 34′	xx:xx	xx:xx	Y	37.01	19:40	
M77 (NGC 1068)	Spiral Galaxy	8.9	7x6	Cetus	2h 42.7m	+00° 02′	xx:xx	21:03		15.76	19:40	
M78 (NGC 2068)	Diffuse Nebula	8.3	8x6	Orion	5h 46.7m	+00° 03′	xx:xx	0:07		41.81	19:40	
M79 (NGC 1904)	Globular Cluster	7.7	8.7	Lepus	5h 24.5m	-24° 33′	xx:xx	21:58		16.86	19:40	
M80 (NGC 6093)	Globular Cluster	7.3	8.9	Scorpius	16h 17m	-22° 59′	0:20	xx:xx		22.82	4:42	
M81 (NGC 3031)	Spiral Galaxy	6.9	21x10	Ursa Major	9h 55.6m	+69° 04′	xx:xx	xx:xx	Y	65.13	22:21	
M82 (NGC 3034)	Irregular Galaxy	8.4	9x4	Ursa Major	9h 55.8m	+69° 41′	xx:xx	xx:xx	Y	64.51	22:21	
M83 (NGC 5236)	Spiral Galaxy	7.6	11x10	Hydra	13h 37m	-29° 52′	22:19	5:38		15.94	2:02	
M84 (NGC 4374)	Lenticular Galaxy	9.1	5	Virgo	12h 25.1m	+12° 53′	xx:xx	xx:xx		58.69	0:50	
M85 (NGC 4382)	Lenticular Galaxy	9.1	7.1x5.2	Coma Berenices	12h 25.5m	+18° 12′	xx:xx	xx:xx		63.99	0:51	
M86 (NGC 4406)	Lenticular Galaxy	8.9	7.5x5.5	Virgo	12h 26.2m	+12° 57′	xx:xx	xx:xx		58.75	0:51	
M87 (NGC 4486)	Eliptical Galaxy	8.6	7	Virgo	12h 30.8m	+12° 24′	xx:xx	xx:xx		58.2	0:56	
M88 (NGC 4501)	Spiral Galaxy	9.6	7x4	Coma Berenices	12h 32.1m	+14° 26′	xx:xx	xx:xx		60.22	0:57	
M89 (NGC 4552)	Eliptical Galaxy	9.8	4	Virgo	12h 35.7m	+12° 33′	xx:xx	xx:xx		58.35	1:01	
M90 (NGC 4569)	Spiral Galaxy	9.5	9.5x4.5	Virgo	12h 36.8m	+13° 10′	xx:xx	xx:xx		58.97	1:02	
M91 (NGC 4548)	Barred Galaxy	10.2	5.4x4.4	Coma Berenices	12h 35.5m	+14° 30′	xx:xx	xx:xx		60.3	1:01	
M92 (NGC 6341)	Globular Cluster	6.4	11.2	Hercules	17h 17.1m	+43° 08′	xx:xx	xx:xx		88.94	5:42	
M93 (NGC 2447)	Open Cluster	6	22	Puppis	7h 44.6m	-23° 52′	xx:xx	0:21		21.94	20:11	
M94 (NGC 4736)	Spiral Galaxy	8.2	7x3	Canes Venatici	12h 50.9m	+41° 08′	xx:xx	xx:xx		86.92	1:16	
M95 (NGC 3351)	Barred Galaxy	9.7	4.4x3.3	Leo	10h 44m	+11° 42′	xx:xx	5:49		57.5	23:10	
M96 (NGC 3368)	Spiral Galaxy	9.2	6x4	Leo	10h 46.8m	+11° 49′	xx:xx	5:53		57.62	23:12	
M97 (NGC 3587)	Planetary Nebula	9.9	3.4x3.3	Ursa Major	11h 14.8m	+55° 01′	xx:xx	xx:xx	Y	79.18	23:40	
M98 (NGC 4192)	Spiral Galaxy	10.1	9.5x3.2	Coma Berenices	12h 13.9m	+14° 55′	xx:xx	xx:xx		60.7	0:39	
M99 (NGC 4254)	Spiral Galaxy	9.9	5.4x4.8	Coma Berenices	12h 18.9m	+14° 26′	xx:xx	xx:xx		60.22	0:44	
M100 (NGC 4321)	Spiral Galaxy	9.3	7x6	Coma Berenices	12h 23m	+15° 50′	xx:xx	xx:xx		61.62	0:48	
M101 (NGC 5457)	Spiral Galaxy	7.9	22	Ursa Major	14h 03.2m	+54° 21′	xx:xx	xx:xx	Y	79.85	2:28	
M102 (NGC 5866)	Lenticular Galaxy	9.9	5.2x2.3	Draco	15h 06.5m	+55° 46′	xx:xx	xx:xx	Y	78.43	3:31	
M103 (NGC 581)	Open Cluster	7.4	6	Cassiopeia	1h 33.2m	+60° 42′	xx:xx	xx:xx	Y	39.64	19:40	
M104 (NGC 4594)	Spiral Galaxy	8	9x4	Virgo	12h 40m	-11° 37′	19:52	6:13		34.19	1:05	
M105 (NGC 3379)	Eliptical Galaxy	9.3	2	Leo	10h 47.8m	+12° 35′	xx:xx	5:57		58.39	23:13	
M106 (NGC 4258)	Spiral Galaxy	8.4	19x8	Canes Venatici	12h 18.9m	+47° 19′	xx:xx	xx:xx	Y	86.9	0:44	
M107 (NGC 6171)	Globular Cluster	7.9	10	Ophiuchus	16h 32.5m	-13° 03′	23:50	xx:xx		32.75	4:57	
M108 (NGC 3556)	Spiral Galaxy	10	8x1	Ursa Major	11h 11.5m	+55° 40′	xx:xx	xx:xx	Y	78.53	23:37	
M109 (NGC 3992)	Barred Galaxy	9.8	7x4	Ursa Major	11h 57.6m	+53° 23′	xx:xx	xx:xx	Y	80.81	0:23	
M110 (NGC 205)	Eliptical Galaxy	8.5	17x10	Andromeda	00h 40.4m	+41° 41′	3:06	22:52		25.2	6:48	-- not possible --