
 * Messier Marathon Observer's Form *

This file presents the Messier objects in the order of the Marathon Search Sequence given by Don Machholz in his "Messier Marathon Observer's Guide", suited so that you can fill in your observations easily.

Messier Marathon Search Sequence
 =====

Compiled online by Hartmut Frommert, using work of Don Machholz.
 Depending on geographic location, it may be impossible to find them all, and may be better to slightly modify this list. In case of doubt consult Don Machholz's book. This list should be good for northern latitudes 20 to 40.

My Messier Marathon
 =====

Date: 03. 29 2026 Observer: DAVE VALKO
 Location: GALLITZIN STATE FOREST, PA Lat: 40.27° Long: 78.71° Time Zone: EDT -4
 Instruments used: ZWO SEESTAR S50 SMART TELESCOPE
 Seeing Quality: SEEING: GOOD, TRANSPARENCY: 5 (PER ASTRONOMICAL LEAGUE)
BORTLE 4.7 QUALITY NOT DIRECTLY MEASURED WITH SQM
 General Comments: MOON 84.3% CLOUDS BEGAN ARRIVING AT ~0600 UTC
AND ENDED THE MARATHON AT 0656 UTC. IMAGES OF EACH OBJECT
CREATED WITH LESS THAN 3 MINUTES TOTAL INTEGRATION TIME USING THE
SEESTAR APP.

The Object List:
 =====

No.	M#	NGC#	Con	Type	Your#	UTC Time	Occular SEESTAR S50	Comments
1.	M77	1068	Cet	G S	<u>2</u>	<u>00:43</u>		
2.	M74	628	Psc	G S	<u>1</u>	<u>00:39</u>		
3.	M33	598	Tri	G S	<u>6</u>	<u>00:59</u>		
4.	M31	224	And	G S	<u>3</u>	<u>00:48</u>		
5.	M32	221	And	G E	<u>4</u>	<u>00:52</u>		
6.	M110	205	And	G E	<u>5</u>	<u>00:55</u>		
7.	M52	7654	Cas	OC1	<u>7</u>	<u>01:06</u>		
8.	M103	581	Cas	OC1	<u>8</u>	<u>01:11</u>		
9.	M76	650	Per	Pl	<u>9</u>	<u>01:15</u>		
10.	M34	1039	Per	OC1	<u>10</u>	<u>01:20</u>		

11.	M45	- Tau OC1	<u>11</u>	<u>01:24</u>	SEESTAR 550	
12.	M79	1904 Lep G1	<u>12</u>	<u>01:29</u>		
13.	M42	1976 ori DN	<u>13</u>	<u>01:33</u>		
14.	M43	1982 Ori DN	<u>14</u>	<u>01:42</u>		
15.	M78	2068 Ori DN	<u>15</u>	<u>01:48</u>		
16.	M1	1952 Tau SNR	<u>16</u>	<u>01:52</u>		
17.	M35	2168 Gem OC1	<u>17</u>	<u>01:58</u>		
18.	M37	2099 Aur OC1	<u>18</u>	<u>02:05</u>		
19.	M36	1960 Aur OC1	<u>19</u>	<u>02:10</u>		
20.	M38	1922 Aur OC1	<u>20</u>	<u>02:14</u>		
21.	M41	2287 CMa OC1	<u>21</u>	<u>02:21</u>		
22.	M93	2447 Pup OC1	<u>22</u>	<u>02:25</u>		
23.	M47	2422 Pup OC1	<u>23</u>	<u>02:31</u>		
24.	M46	2437 Pup OC1	<u>24</u>	<u>02:35</u>		
25.	M50	2323 Mon OC1	<u>25</u>	<u>02:42</u>		
26.	M48	2548 Hya OC1	<u>26</u>	<u>02:45</u>		
27.	M44	2632 Cnc OC1	<u>27</u>	<u>02:49</u>		
28.	M67	2682 Cnc OC1	<u>28</u>	<u>02:52</u>		
29.	M95	3351 Leo G S	<u>29</u>	<u>02:56</u>		
30.	M96	3368 Leo G S	<u>30</u>	<u>03:00</u>		
31.	M105	3379 Leo G E	<u>31</u>	<u>03:05</u>		
32.	M65	3623 Leo G S	<u>32</u>	<u>03:09</u>		
33.	M66	3627 Leo G S	<u>33</u>	<u>03:14</u>		
34.	M81	3031 UMa G S	<u>34</u>	<u>03:18</u>		
35.	M82	3034 UMa G Ir	<u>35</u>	<u>03:22</u>		
36.	M97	3587 UMa Pl	<u>36</u>	<u>03:26</u>		
37.	M108	3556 UMa G S	<u>37</u>	<u>03:30</u>		
38.	M109	3992 UMa G S	<u>38</u>	<u>03:34</u>		
and/or	M109B	3953 UMa G S				
39.	M40	- UMa 2St	<u>39</u>	<u>03:38</u>		

40.	M106	4258 CVn G S	<u>40</u>	<u>03:42</u>	SEESTAR S50	
41.	M94	4736 CVn G S	<u>41</u>	<u>03:46</u>		
42.	M63	5055 CVn G S	<u>42</u>	<u>03:49</u>		
43.	M51	5194 CVn G S	<u>43</u>	<u>03:53</u>		
44.	M101	5457 UMa G S	<u>44</u>	<u>03:57</u>		
45.	M102	5866 Dra GS0	<u>45</u>	<u>04:01</u>		
46.	M53	5024 Com Gl	<u>46</u>	<u>04:05</u>		
47.	M64	4826 Com G S	<u>47</u>	<u>04:09</u>		
48.	M3	5272 CVn Gl	<u>48</u>	<u>04:12</u>		
49.	M98	4192 Com G S	<u>49</u>	<u>04:15</u>		
50.	M99	4254 Com G S	<u>50</u>	<u>04:19</u>		
51.	M100	4321 Com G S	<u>51</u>	<u>04:23</u>		
52.	M85	4382 Com GS0	<u>52</u>	<u>04:27</u>		
53.	M84	4374 Vir GS0	<u>53</u>	<u>04:30</u>		
54.	M86	4406 Vir GS0	<u>54</u>	<u>04:33</u>		
55.	M87	4486 Vir G E	<u>55</u>	<u>04:37</u>		
56.	M89	4552 Vir G E	<u>56</u>	<u>04:40</u>		
57.	M90	4569 Vir G S	<u>57</u>	<u>04:44</u>		
58.	M88	4501 Com G S	<u>58</u>	<u>04:48</u>		
59.	M91	4548 Com G S	<u>59</u>	<u>04:52</u>		
60.	M58	4579 Vir G S	<u>60</u>	<u>04:57</u>		
61.	M59	4621 Vir G E	<u>61</u>	<u>05:01</u>		
62.	M60	4649 Vir G E	<u>62</u>	<u>05:05</u>		
63.	M49	4472 Vir G E	<u>63</u>	<u>05:08</u>		
64.	M61	4303 Vir G S	<u>64</u>	<u>05:13</u>		
65.	M104	4594 Vir G S	<u>65</u>	<u>05:18</u>		
66.	M68	4590 Hya Gl	<u>66</u>	<u>05:22</u>		
67.	M83	5236 Hya G S	<u>67</u>	<u>05:26</u>		
68.	M5	5904 Ser Gl	<u>68</u>	<u>05:30</u>		

69.	M13	6205 Her Gl	<u>69</u>	<u>05:33</u>	SEESTAR S50	
70.	M92	6341 Her Gl	<u>70</u>	<u>05:36</u>		
71.	M57	6720 Lyr Pl	<u>71</u>	<u>05:42</u>		
72.	M56	6779 Lyr Gl	<u>72</u>	<u>05:48</u>		
73.	M29	6913 Cyg OC1	<u>81</u>	<u>06:30</u>		
74.	M39	7092 Cyg OC1	<u>82</u>	<u>06:34</u>		
75.	M27	6853 Vul Pl	<u>84</u>	<u>06:43</u>		
76.	M71	6838 Sge Gl	<u>85</u>	<u>06:48</u>		
77.	M107	6171 Oph Gl	<u>73</u>	<u>05:55</u>		
78.	M12	6218 Oph Gl	<u>75</u>	<u>06:05</u>		
79.	M10	6254 Oph Gl	<u>74</u>	<u>06:01</u>		
80.	M14	6402 Oph Gl	<u>76</u>	<u>06:10</u>		
81.	M9	6333 Oph Gl	<u>77</u>	<u>06:13</u>		
82.	M4	6121 Sco Gl	<u>78</u>	<u>06:17</u>		
83.	M80	6093 Sco Gl	<u>79</u>	<u>06:21</u>		
84.	M19	6273 Oph Gl	<u>80</u>	<u>06:25</u>		
85.	M62	6266 Oph Gl	<u>83</u>	<u>06:38</u>		
86.	M6	6405 Sco OC1	_____	__:		
87.	M7	6475 Sco OC1	_____	__:		
88.	M11	6705 Sct OC1	<u>86</u>	<u>06:51</u>	"	
89.	M26	6694 Sct OC1	<u>87</u>	<u>06:56</u>	"	
90.	M16	6611 Ser OC1	_____	__:		
91.	M17	6618 Sgr DN	_____	__:		
92.	M18	6613 Sgr OC1	_____	__:		
93.	M24	>6603 Sgr OC1	_____	__:		
94.	M25	I4725 Sgr OC1	_____	__:		
95.	M23	6494 Sgr OC1	_____	__:		
96.	M21	6531 Sgr OC1	_____	__:		
97.	M20	6514 Sgr DN	_____	__:		

98.	M8	6523 Sgr DN	_____	__:	_____	_____
99.	M28	6626 Sgr Gl	_____	__:	_____	_____
100.	M22	6656 Sgr Gl	_____	__:	_____	_____
101.	M69	6637 Sgr Gl	_____	__:	_____	_____
102.	M70	6681 Sgr Gl	_____	__:	_____	_____
103.	M54	6715 Sgr Gl	_____	__:	_____	_____
104.	M55	6809 Sgr Gl	_____	__:	_____	_____
105.	M75	6864 Sgr Gl	_____	__:	_____	_____
106.	M15	7078 Peg Gl	_____	__:	_____	_____
107.	M2	7089 Aqr Gl	_____	__:	_____	_____
108.	M72	6981 Aqr Gl	_____	__:	_____	_____
109.	M73	6994 Aqr 4St	_____	__:	_____	_____
110.	M30	7099 Cap Gl	_____	__:	_____	_____

```

*****
*                                     *
*                                     *
*   Score:  87  of 110  !!  *
*                                     *
*                                     *
*****

```

Key:

No. : Don Machholz' sequence number
 M# : Messier number
 NGC# : NGC (or IC) number
 Con : Constellation (abbreviated)
 Type : Object Type (see below)
 Your# : Your actual sequence number
 Time : Your observing time (in your time zone)
 Comments: Any important observing circumstances/results etc.

Types:

OC1=Open Cluster, Gl=Globular Cluster, Pl=Planetary Nebula,
 DN=Diffuse Nebula, G S=Spiral Galaxy, G E=Elliptical Galaxy,
 GIr=Irregular Galaxy, GS0=Lenticular (S0) Galaxy, SNR=SNR,
 2St=Binary Star, 4St=4 Star System