

# 2019 Messier Marathon

<b>1</b>	<b>M74</b>	<b>NGC 628</b>	<b>Galaxy</b>	<b>Pisces</b>	<b>Time:</b> _____
			R.A.: 1h 36.6m	Dec.: 15 48	10.5    10.2x9.5 <b>PSA 4-5</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>2</b>	<b>M77</b>	<b>NGC 1068</b>	<b>Galaxy</b>	<b>Cetus</b>	<b>Time:</b> _____
			R.A.: 2h 42.7m	Dec.: 0	10.5    7.0x6.0 <b>PSA 4-5</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>3</b>	<b>M33</b>	<b>NGC 598</b>	<b>Galaxy</b>	<b>Triangulum</b>	<b>Time:</b> _____
			R.A.: 1h 33.9m	Dec.: 30 40	7.0    73.0x45.0 <b>PSA 2-3</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>4</b>	<b>M31</b>	<b>NGC 224</b>	<b>Galaxy</b>	<b>Andromeda</b>	<b>Time:</b> _____
			R.A.: 0h 42.8m	Dec.: 41 16	4.5    178 <b>PSA 2-3</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>5</b>	<b>M32</b>	<b>NGC 221</b>	<b>Galaxy</b>	<b>Andromeda</b>	<b>Time:</b> _____
			R.A.: 0h 42.8m	Dec.: 40 52	10.0    8.0x6.0 <b>PSA 2-3</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>6</b>	<b>M110</b>	<b>NGC 205</b>	<b>Galaxy</b>	<b>Andromeda</b>	<b>Time:</b> _____
			R.A.: 0h 40.4m	Dec.: 41 41	10.0    17.0x10.0 <b>PSA 2-3</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>7</b>	<b>M52</b>	<b>NGC 7654</b>	<b>Open Cluster</b>	<b>Cassiopeia</b>	<b>Time:</b> _____
			R.A.: 23h 24.2m	Dec.: 61 35	8.0    13 <b>PSA 71-72</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>8</b>	<b>M103</b>	<b>NGC 581</b>	<b>Open Cluster</b>	<b>Cassiopeia</b>	<b>Time:</b> _____
			R.A.: 1h 33.2m	Dec.: 60 42	7.0    6 <b>PSA 1-2</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>9</b>	<b>M76</b>	<b>NGC 650</b>	<b>Planetary Nebula</b>	<b>Perseus</b>	<b>Time:</b> _____
			R.A.: 1h 42.4m	Dec.: 51 34	12.0    2.7x1.8 <b>PSA 2</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>10</b>	<b>M34</b>	<b>NGC 1039</b>	<b>Open Cluster</b>	<b>Perseus</b>	<b>Time:</b> _____
			R.A.: 2h 42.0m	Dec.: 42 47	6.0    35 <b>PSA 2</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>11</b>	<b>M45</b>	<b>Mel 22</b>	<b>Open Cluster</b>	<b>Taurus</b>	<b>Time:</b> _____
			R.A.: 3h 47.0m	Dec.: 24 06	1.4    110 <b>PSA 15</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					

**Date:** \_\_\_\_\_  
**Location:** \_\_\_\_\_

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**Pocket Sky Atlas**

**Conditions:** \_\_\_\_\_  
**Telescope:** \_\_\_\_\_

# 2019 Messier Marathon

<b>12</b>	<b>M79</b>	<b>NGC 1904</b>	<b>Globular Cluster</b>	<b>Lepus</b>	Time: _____													
			R.A.: 5h 24.5m	Dec.: -24 33	8.5      8.7 <b>PSA 16</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>13</b>	<b>M42</b>	<b>NGC 1976</b>	<b>Emission Nebula</b>	<b>Orion</b>	Time: _____													
			R.A.: 5h 35.3m	Dec.: -5 25	5.0      85.0x60.0 <b>PSA 16</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>14</b>	<b>M43</b>	<b>NGC 1982</b>	<b>Emission Nebula</b>	<b>Orion</b>	Time: _____													
			R.A.: 5h 35.5m	Dec.: -5 16	7.0      20.0x15.0 <b>PSA 16</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>15</b>	<b>M78</b>	<b>NGC 2068</b>	<b>Bright Nebula</b>	<b>Orion</b>	Time: _____													
			R.A.: 5h 46.8m	Dec.: 0 4	8.0      8.0x6.0 <b>PSA 16</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>16</b>	<b>M1</b>	<b>NGC 1952</b>	<b>Supernova Remnant</b>	<b>Taurus</b>	Time: _____													
			R.A.: 5h 34.5m	Dec.: 22 01	8.4      6.0x4.0 <b>PSA 14</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>17</b>	<b>M35</b>	<b>NGC 2168</b>	<b>Open Cluster</b>	<b>Gemini</b>	Time: _____													
			R.A.: 6h 8.9m	Dec.: 24 21	5.5      28 <b>PSA 14</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>18</b>	<b>M38</b>	<b>NGC 1912</b>	<b>Open Cluster</b>	<b>Auriga</b>	Time: _____													
			R.A.: 5h 28.7m	Dec.: 35 51	7.0      21 <b>PSA 12</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>19</b>	<b>M36</b>	<b>NGC 1960</b>	<b>Open Cluster</b>	<b>Auriga</b>	Time: _____													
			R.A.: 5h 36.1	Dec.: 34 08	6.5      12 <b>PSA 12</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>20</b>	<b>M37</b>	<b>NGC 2099</b>	<b>Open Cluster</b>	<b>Auriga</b>	Time: _____													
			R.A.: 5h 52.4m	Dec.: 32 33	6.0      24 <b>PSA 12</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>21</b>	<b>M41</b>	<b>NGC 2287</b>	<b>Open Cluster</b>	<b>Canis Major</b>	Time: _____													
			R.A.: 6h 47.0m	Dec.: -20 44	5.0      38 <b>PSA 27</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>22</b>	<b>M50</b>	<b>NGC 2323</b>	<b>Open Cluster</b>	<b>Monoceros</b>	Time: _____													
			R.A.: 7h 3.2m	Dec.: -8 20	7.0      16 <b>PSA 27</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE

Date: \_\_\_\_\_  
 Location: \_\_\_\_\_

Conditions: \_\_\_\_\_  
 Telescope: \_\_\_\_\_

# 2019 Messier Marathon

<b>23</b>	<b>M47</b>	<b>NGC 2422</b>	<b>Open Cluster</b>	<b>Puppis</b>	<b>Time:</b> _____
			R.A.: 7h 36.6m	Dec.: -14 30	4.5      30 <b>PSA 26-27</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>24</b>	<b>M46</b>	<b>NGC 2437</b>	<b>Open Cluster</b>	<b>Puppis</b>	<b>Time:</b> _____
			R.A.: 7h 41.8m	Dec.: -14 49	6.5      27 <b>PSA 26-27</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>25</b>	<b>M93</b>	<b>NGC 2447</b>	<b>Open Cluster</b>	<b>Puppis</b>	<b>Time:</b> _____
			R.A.: 7h 44.6m	Dec.: -23 52	6.5      22 <b>PSA 26</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>26</b>	<b>M48</b>	<b>NGC 2548</b>	<b>Open Cluster</b>	<b>Hydra</b>	<b>Time:</b> _____
			R.A.: 8h 13.8m	Dec.: -5 48	5.5      54 <b>PSA 26</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>27</b>	<b>M44</b>	<b>NGC 2632</b>	<b>Open Cluster</b>	<b>Cancer</b>	<b>Time:</b> _____
			R.A.: 8h 40.1m	Dec.: 19 59	4.0      95 <b>PSA 24</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>28</b>	<b>M67</b>	<b>NGC 2682</b>	<b>Open Cluster</b>	<b>Cancer</b>	<b>Time:</b> _____
			R.A.: 8h 50.4m	Dec.: 11 49	7.5      30 <b>PSA 24</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>29</b>	<b>M81</b>	<b>NGC 3031</b>	<b>Galaxy</b>	<b>Ursa Major</b>	<b>Time:</b> _____
			R.A.: 9h 55.6m	Dec.: 69 4	8.5      21.0x10.0 <b>PSA 31</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>30</b>	<b>M82</b>	<b>NGC 3034</b>	<b>Galaxy</b>	<b>Ursa Major</b>	<b>Time:</b> _____
			R.A.: 9h 55.9m	Dec.: 69 41	9.5      9.x4.0 <b>PSA 31</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>31</b>	<b>M108</b>	<b>NGC 3556</b>	<b>Galaxy</b>	<b>Ursa Major</b>	<b>Time:</b> _____
			R.A.: 11h 11.6m	Dec.: 55 41	11.0      8.0x1.0 <b>PSA 32</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>32</b>	<b>M97</b>	<b>NGC 3587</b>	<b>Planetary Nebula</b>	<b>Ursa Major</b>	<b>Time:</b> _____
			R.A.: 11h 14.8m	Dec.: 55 1	12.0      3.4x3.3 <b>PSA 32</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>33</b>	<b>M109</b>	<b>NGC 3992</b>	<b>Galaxy</b>	<b>Ursa Major</b>	<b>Time:</b> _____
			R.A.: 11h 57.6m	Dec.: 53 23	11.0      7.0x4.0 <b>PSA 32</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					

Date: \_\_\_\_\_  
 Location: \_\_\_\_\_

Conditions: \_\_\_\_\_  
 Telescope: \_\_\_\_\_

# 2019 Messier Marathon

<b>34</b>	<b>M106</b>	<b>NGC 4258</b>	<b>Galaxy</b>	<b>Canes Venatici</b>	<b>Time:</b> _____													
			R.A.: 12h 18.9m	Dec.: 47 19	9.5    19.0x8.0 <b>PSA 32</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>35</b>	<b>M40</b>	<b>WINN4</b>	<b>Double Star</b>	<b>Ursa Major</b>	<b>Time:</b> _____													
			R.A.: 12h 20.0m	Dec.: 58 22	9.0    0.8 <b>PSA 32</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>36</b>	<b>M95</b>	<b>NGC 3351</b>	<b>Galaxy</b>	<b>Leo</b>	<b>Time:</b> _____													
			R.A.: 10h 43.9m	Dec.: 11 42	11.0    4.4x3.3 <b>PSA 34</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>37</b>	<b>M96</b>	<b>NGC 3368</b>	<b>Galaxy</b>	<b>Leo</b>	<b>Time:</b> _____													
			R.A.: 10h 46.7m	Dec.: 11 49	10.5    6.0x4.0 <b>PSA 34</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>38</b>	<b>M105</b>	<b>NGC 3379</b>	<b>Galaxy</b>	<b>Leo</b>	<b>Time:</b> _____													
			R.A.: 10h 47.8m	Dec.: 12 35	11.0    2 <b>PSA 34</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>39</b>	<b>M65</b>	<b>NGC 3623</b>	<b>Galaxy</b>	<b>Leo</b>	<b>Time:</b> _____													
			R.A.: 11h 18.9m	Dec.: 13 6	10.5    8.0x1.5 <b>PSA 34</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>40</b>	<b>M66</b>	<b>NGC 3627</b>	<b>Galaxy</b>	<b>Leo</b>	<b>Time:</b> _____													
			R.A.: 11h 20.2m	Dec.: 13 0	10.0    8.0x2.5 <b>PSA 34</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>41</b>	<b>M101</b>	<b>NGC 5457</b>	<b>Galaxy</b>	<b>Ursa Major</b>	<b>Time:</b> _____													
			R.A.: 14h 3.3m	Dec.: 54 22	8.5    22 <b>PSA 32-43</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>42</b>	<b>M51</b>	<b>NGC 5194</b>	<b>Galaxy</b>	<b>Canes Venatici</b>	<b>Time:</b> _____													
			R.A.: 13h 30.0m	Dec.: 47 11	8.0    11.0x7.0 <b>PSA 43</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>43</b>	<b>M63</b>	<b>NGC 5055</b>	<b>Galaxy</b>	<b>Canes Venatici</b>	<b>Time:</b> _____													
			R.A.: 13h 15.8m	Dec.: 42 2	8.5    10.0x6.0 <b>PSA 43</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE
<hr/>																		
<b>44</b>	<b>M94</b>	<b>NGC 4736</b>	<b>Galaxy</b>	<b>Canes Venatici</b>	<b>Time:</b> _____													
			R.A.: 12h 50.9m	Dec.: 41 8	9.5    7.0x3.0 <b>PSA 32</b>													
___mm	___x	___Diff	___B	___F	___L	___S	El	EOn	Oval	R	Patch	UB	___Nuc	NND	___HISB	AV	Susp	PFGE

**Date:** \_\_\_\_\_  
**Location:** \_\_\_\_\_

**Conditions:** \_\_\_\_\_  
**Telescope:** \_\_\_\_\_

# 2019 Messier Marathon

45	M3	NGC 5272	Globular Cluster	Canes Venatici	Time: _____
			R.A.: 13h 42.2m	Dec.: 28 23	6.4      16.2 <b>PSA 44-45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
46	M53	NGC 5024	Globular Cluster	Coma Berenices	Time: _____
			R.A.: 13h 12.9m	Dec.: 18 10	8.5      12.6 <b>PSA 44-45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
47	M64	NGC 4826	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 56.7m	Dec.: 21 41	9.0      9.3x5.4 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
48	M60	NGC 4649	Galaxy	Virgo	Time: _____
			R.A.: 12h 43.7m	Dec.: 11 34	10.5      7.0x6.0 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
49	M59	NGC 4621	Galaxy	Virgo	Time: _____
			R.A.: 12h 42.1m	Dec.: 11 39	11.5      5.0x3.5 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
50	M58	NGC 4579	Galaxy	Virgo	Time: _____
			R.A.: 12h 37.8m	Dec.: 11 50	11.0      5.5x4.5 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
51	M89	NGC 4552	Galaxy	Virgo	Time: _____
			R.A.: 12h 35.7m	Dec.: 12 34	11.5      4 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
52	M90	NGC 4569	Galaxy	Virgo	Time: _____
			R.A.: 12h 36.9m	Dec.: 13 10	11.0      9.5x4.5 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
53	M88	NGC 4501	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 32.1m	Dec.: 14 26	11.0      7.0x4.0 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
54	M91	NGC 4548	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 35.5m	Dec.: 14 30	11.5      5.4x4.4 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
55	M87	NGC 4486	Galaxy	Virgo	Time: _____
			R.A.: 12h 30.9m	Dec.: 12 24	11.0      7 <b>PSA 45</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					

Date: \_\_\_\_\_  
 Location: \_\_\_\_\_

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Conditions: \_\_\_\_\_  
 Telescope: \_\_\_\_\_

# 2019 Messier Marathon

56	M86	NGC 4406	Galaxy	Virgo	Time: _____
			R.A.: 12h 26.3m	Dec.: 12 57	11.0    7.5x5.5 <b>PSA 45</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
57	M84	NGC 4374	Galaxy	Virgo	Time: _____
			R.A.: 12h 25.1m	Dec.: 12 54	11.0    5 <b>PSA 45</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
58	M100	NGC 4321	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 23.0m	Dec.: 15 50	10.5    7.0x6.0 <b>PSA 45</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
59	M85	NGC 4382	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 25.5m	Dec.: 18 12	10.5    7.1x5.2 <b>PSA 45</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
60	M98	NGC 4192	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 13.9m	Dec.: 14 55	11.0    9.5x3.2 <b>PSA 45</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
61	M99	NGC 4254	Galaxy	Coma Berenices	Time: _____
			R.A.: 12h 18.9m	Dec.: 14 26	10.5    5.4x4.8 <b>PSA 45</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
62	M49	NGC 4472	Galaxy	Virgo	Time: _____
			R.A.: 12h 29.8m	Dec.: 8 0	10.0    9.0x7.5 <b>PSA 45</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
63	M61	NGC 4303	Galaxy	Virgo	Time: _____
			R.A.: 12h 22.0m	Dec.: 4 29	10.5    6.0x5.5 <b>PSA 45</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
64	M104	NGC 4594	Galaxy	Virgo	Time: _____
			R.A.: 12h 39.9m	Dec.: -11 37	9.5    9.0x4.0 <b>PSA 47</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
65	M68	NGC 4590	Globular Cluster	Hydra	Time: _____
			R.A.: 12h 39.5m	Dec.: -26 45	9.0    12 <b>PSA 47</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
66	M83	NGC 5236	Galaxy	Hydra	Time: _____
			R.A.: 13h 37.1m	Dec.: -29 52	8.5    11.0x10.0 <b>PSA 46</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE

Date: \_\_\_\_\_  
 Location: \_\_\_\_\_

Conditions: \_\_\_\_\_  
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# 2019 Messier Marathon

<b>67</b>	<b>M102</b>	<b>NGC 5866</b>	<b>Galaxy</b>	<b>Draco</b>	<b>Time:</b> _____
		R.A.: 15h 6.5m	Dec.: 55 45	10.5	5.2x2.3 <b>PSA 42</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>68</b>	<b>M5</b>	<b>NGC 5904</b>	<b>Globular Cluster</b>	<b>Serpens</b>	<b>Time:</b> _____
		R.A.: 15h 18.6m	Dec.: 2 5	5.8	17.4 <b>PSA 57</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>69</b>	<b>M13</b>	<b>NGC 6205</b>	<b>Globular Cluster</b>	<b>Hercules</b>	<b>Time:</b> _____
		R.A.: 16h 41.7m	Dec.: 36 28	5.9	16.6 <b>PSA 52</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>70</b>	<b>M92</b>	<b>NGC 6341</b>	<b>Globular Cluster</b>	<b>Hercules</b>	<b>Time:</b> _____
		R.A.: 17h 17.1m	Dec.: 43 8	7.5	11.2 <b>PSA 52</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>71</b>	<b>M12</b>	<b>NGC 6218</b>	<b>Globular Cluster</b>	<b>Ophiuchus</b>	<b>Time:</b> _____
		R.A.: 16h 47.2m	Dec.: -1 57	6.6	14.5 <b>PSA 56</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>72</b>	<b>M10</b>	<b>NGC 6254</b>	<b>Globular Cluster</b>	<b>Ophiuchus</b>	<b>Time:</b> _____
		R.A.: 16h 57.1m	Dec.: -4 6	6.6	15.1 <b>PSA 56</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>73</b>	<b>M14</b>	<b>NGC 6402</b>	<b>Globular Cluster</b>	<b>Ophiuchus</b>	<b>Time:</b> _____
		R.A.: 17h 37.6m	Dec.: -3 15	7.6	11.7 <b>PSA 56</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>74</b>	<b>M107</b>	<b>NGC 6171</b>	<b>Globular Cluster</b>	<b>Ophiuchus</b>	<b>Time:</b> _____
		R.A.: 16h 32.5m	Dec.: -13 3	10.0	10 <b>PSA 56</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>75</b>	<b>M80</b>	<b>NGC 6093</b>	<b>Globular Cluster</b>	<b>Scorpius</b>	<b>Time:</b> _____
		R.A.: 16h 17.0m	Dec.: -22 59	8.5	8.9 <b>PSA 56</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>76</b>	<b>M4</b>	<b>NGC 6121</b>	<b>Globular Cluster</b>	<b>Scorpius</b>	<b>Time:</b> _____
		R.A.: 16h 23.6m	Dec.: -26 32	5.9	26.3 <b>PSA 56</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<b>77</b>	<b>M19</b>	<b>NGC 6273</b>	<b>Globular Cluster</b>	<b>Ophiuchus</b>	<b>Time:</b> _____
		R.A.: 17h 2.6m	Dec.: -26 16	8.5	13.5 <b>PSA 56</b>
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

**Date:** \_\_\_\_\_  
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**Conditions:** \_\_\_\_\_  
**Telescope:** \_\_\_\_\_

# 2019 Messier Marathon

<b>78</b>	<b>M62</b>	<b>NGC 6266</b>	<b>Globular Cluster</b>	<b>Ophiuchus</b>	Time: _____													
			R.A.: 17h 1.2m	Dec.: -30 7	8.0      14.1 <b>PSA 56</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>79</b>	<b>M6</b>	<b>NGC 6405</b>	<b>Open Cluster</b>	<b>Scorpius</b>	Time: _____													
			R.A.: 17h 40.1m	Dec.: -32 13	4.2      15 <b>PSA 58</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>80</b>	<b>M7</b>	<b>NGC 6475</b>	<b>Open Cluster</b>	<b>Scorpius</b>	Time: _____													
			R.A.: 17h 53.9m	Dec.: -34 47	3.3      80 <b>PSA 58</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>81</b>	<b>M8</b>	<b>NGC 6523</b>	<b>Cluster W/Nebula</b>	<b>Sagittarius</b>	Time: _____													
			R.A.: 18h 3.1m	Dec.: -24 23	5.0      35.0x50.0 <b>PSA 69</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>82</b>	<b>M20</b>	<b>NGC 6514</b>	<b>Cluster W/Nebula</b>	<b>Sagittarius</b>	Time: _____													
			R.A.: 18h 2.3m	Dec.: -22 59	5.0      28 <b>PSA 69</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>83</b>	<b>M21</b>	<b>NGC 6531</b>	<b>Open Cluster</b>	<b>Sagittarius</b>	Time: _____													
			R.A.: 18h 4.6m	Dec.: -22 30	7.0      13 <b>PSA 69</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>84</b>	<b>M23</b>	<b>NGC 6494</b>	<b>Open Cluster</b>	<b>Sagittarius</b>	Time: _____													
			R.A.: 17h 56.8m	Dec.: -19 1	6.0      27 <b>PSA 67</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>85</b>	<b>M9</b>	<b>NGC 6333</b>	<b>Globular Cluster</b>	<b>Ophiuchus</b>	Time: _____													
			R.A.: 17h 19.2m	Dec.: -18 31	7.9      9.3 <b>PSA 56</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>86</b>	<b>M24</b>	<b>IC 4715</b>	<b>M.W. Star Cloud</b>	<b>Sagittarius</b>	Time: _____													
			R.A.: 18h 18.4m	Dec.: -18 25	11.5      5 <b>PSA 67</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>87</b>	<b>M25</b>	<b>IC 4725</b>	<b>Open Cluster</b>	<b>Sagittarius</b>	Time: _____													
			R.A.: 18h 31.4m	Dec.: -19 17	4.9      40 <b>PSA 67</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE
<hr/>																		
<b>88</b>	<b>M18</b>	<b>NGC 6613</b>	<b>Open Cluster</b>	<b>Sagittarius</b>	Time: _____													
			R.A.: 18h 19.9m	Dec.: -17 8	8.0      9 <b>PSA 67</b>													
____mm	____x	____Diff	____B	____F	____L	____S	El	EOn	Oval	R	Patch	UB	____Nuc	NND	____HISB	AV	Susp	PFGE

Date: \_\_\_\_\_  
 Location: \_\_\_\_\_

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 Telescope: \_\_\_\_\_



# 2019 Messier Marathon

<b>89</b>	<b>M17</b>	<b>NGC 6618</b>	<b>Cluster W/Nebula</b>	<b>Sagittarius</b>	<b>Time:</b> _____
			R.A.: 18h 20.8m	Dec.: -16 11	7.0 11 <b>PSA 67</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>90</b>	<b>M16</b>	<b>NGC 6611</b>	<b>Cluster W/Nebula</b>	<b>Serpens</b>	<b>Time:</b> _____
			R.A.: 18h 18.8m	Dec.: -13 47	6.5 7 <b>PSA 67</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>91</b>	<b>M11</b>	<b>NGC 6705</b>	<b>Open Cluster</b>	<b>Scutum</b>	<b>Time:</b> _____
			R.A.: 18h 51.1m	Dec.: -6 16	5.8 14 <b>PSA 67</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>92</b>	<b>M26</b>	<b>NGC 6694</b>	<b>Open Cluster</b>	<b>Scutum</b>	<b>Time:</b> _____
			R.A.: 18h 45.2m	Dec.: -9 24	9.5 15 <b>PSA 67</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>93</b>	<b>M22</b>	<b>NGC 6656</b>	<b>Globular Cluster</b>	<b>Sagittarius</b>	<b>Time:</b> _____
			R.A.: 18h 36.4m	Dec.: -23 54	6.5 24 <b>PSA 69</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>94</b>	<b>M28</b>	<b>NGC 6626</b>	<b>Globular Cluster</b>	<b>Sagittarius</b>	<b>Time:</b> _____
			R.A.: 18h 24.5m	Dec.: -24 52	8.5 11.2 <b>PSA 69</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>95</b>	<b>M69</b>	<b>NGC 6637</b>	<b>Globular Cluster</b>	<b>Sagittarius</b>	<b>Time:</b> _____
			R.A.: 18h 31.4m	Dec.: -32 21	9.0 7.1 <b>PSA 69</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>96</b>	<b>M70</b>	<b>NGC 6681</b>	<b>Globular Cluster</b>	<b>Sagittarius</b>	<b>Time:</b> _____
			R.A.: 18h 43.2m	Dec.: -32 18	9.0 7.8 <b>PSA 69</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>97</b>	<b>M57</b>	<b>NGC 6720</b>	<b>Planetary Nebula</b>	<b>Lyra</b>	<b>Time:</b> _____
			R.A.: 18h 53.6m	Dec.: 33 2	9.5 1.4x1.0 <b>PSA 63</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>98</b>	<b>M56</b>	<b>NGC 6779</b>	<b>Globular Cluster</b>	<b>Lyra</b>	<b>Time:</b> _____
			R.A.: 19h 16.6m	Dec.: 30 11	9.5 7.1 <b>PSA 63</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE
<b>99</b>	<b>M29</b>	<b>NGC 6913</b>	<b>Open Cluster</b>	<b>Cygnus</b>	<b>Time:</b> _____
			R.A.: 20h 23.9m	Dec.: 38 30	9.0 7 <b>PSA 62</b>
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE

Date: \_\_\_\_\_  
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Conditions: \_\_\_\_\_  
 Telescope: \_\_\_\_\_

# 2019 Messier Marathon

<b>100</b>	<b>M39</b>	<b>NGC 7092</b>	<b>Open Cluster</b>	<b>Cygnus</b>	Time: _____
			R.A.: 21h 32.2m	Dec.: 48 26	5.5      32 <b>PSA 62</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>101</b>	<b>M71</b>	<b>NGC 6838</b>	<b>Globular Cluster</b>	<b>Sagitta</b>	Time: _____
			R.A.: 19h 53.8m	Dec.: 18 47	8.5      7.2 <b>PSA 64</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>102</b>	<b>M27</b>	<b>NGC 6853</b>	<b>Planetary Nebula</b>	<b>Vulpecula</b>	Time: _____
			R.A.: 19h 59.6m	Dec.: 22 43	7.5      8.0x5.6 <b>PSA 62-64</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>103</b>	<b>M54</b>	<b>NGC 6715</b>	<b>Globular Cluster</b>	<b>Sagittarius</b>	Time: _____
			R.A.: 18h 55.1m	Dec.: -30 29	8.5      9.1 <b>PSA 69</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>104</b>	<b>M55</b>	<b>NGC 6809</b>	<b>Globular Cluster</b>	<b>Sagittarius</b>	Time: _____
			R.A.: 19h 40.0m	Dec.: -30 58	7.0      19 <b>PSA 66</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>105</b>	<b>M15</b>	<b>NGC 7078</b>	<b>Globular Cluster</b>	<b>Pegasus</b>	Time: _____
			R.A.: 21h 30m	Dec.: 12 10	6.4      12.3 <b>PSA 75</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>106</b>	<b>M75</b>	<b>NGC 6864</b>	<b>Globular Cluster</b>	<b>Sagittarius</b>	Time: _____
			R.A.: 20h 6.1m	Dec.: -21 55	9.5      6 <b>PSA 66</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>107</b>	<b>M72</b>	<b>NGC 6981</b>	<b>Globular Cluster</b>	<b>Aquarius</b>	Time: _____
			R.A.: 20h 53.5m	Dec.: -12 32	10.0      5.9 <b>PSA 77</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>108</b>	<b>M73</b>	<b>NGC 6994</b>	<b>Clump of 4-Stars</b>	<b>Aquarius</b>	Time: _____
			R.A.: 20h 59.0m	Dec.: -12 38	9.0      2.8 <b>PSA 77</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>109</b>	<b>M2</b>	<b>NGC 7089</b>	<b>Globular Cluster</b>	<b>Aquarius</b>	Time: _____
			R.A.: 21h 33.5m	Dec.: -0 49	6.5      12.9 <b>PSA 77</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>110</b>	<b>M30</b>	<b>NGC 7099</b>	<b>Globular Cluster</b>	<b>Capricornus</b>	Time: _____
			R.A.: 21h 40.4m	Dec.: -23 11	8.5      11 <b>PSA 77</b>
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					

2/19/2016

This list is based on a list originally authored by Bruce Scodova. There may be and probably are, similar lists. I have added the NGC/IC designation, object type, constellation, Pocket Sky Atlas map number, R.A., Dec, E.P. focal length and magnification.

**Date:** \_\_\_\_\_  
**Location:** \_\_\_\_\_

**Page: 10 of 10**  
**Pocket Sky Atlas**

**Conditions:** \_\_\_\_\_  
**Telescope:** \_\_\_\_\_

### Messier Marathon Search Order

Order	Obs.	M#	Constellation	Type	R.A.	Dec.	Mag	Size	Sky Atlas
1		M74	Pisces	Galaxy	1h 36.6m	15 48	10.5	10.2x9.5	10
2		M77	Cetus	Galaxy	2h 42.7m	0	10.5	7.0x6.0	10
3		M33	Triangulum	Galaxy	1h 33.9m	30 40	7.0	73.0x45.0	4
4		M31	Andromeda	Galaxy	0h 42.8m	41 16	4.5	178	4
5		M32	Andromeda	Galaxy	0h 42.8m	40 52	10.0	8.0x6.0	4
6		M110	Andromeda	Galaxy	0h 40.4m	41 41	10.0	17.0x10.0	4
7		M52	Cassiopea	O.C.	23h 24.2m	61 35	8.0	13	3
8		M103	Cassiopeia	O.C.	1h 33.2m	60 42	7.0	6	1
9		M76	Perseus	P.N.	1h 42.4m	51 34	12.0	2.7x1.8	1, 4
10		M34	Perseus	O.C.	2h 42.0m	42 47	6.0	35	1,4
11		M45	Taurus	O.C.	3h 47.0m	24 07	1.4	110	4
12		M79	Lepus	G.C.	5h 24.5m	-24 33	8.5	8.7	19
13		M42	Orion	D.N.	5h 35.3m	-5 23	5.0	85.0x60.0	11
14		M43	Orion	D.N.	5h 35.5m	-5 16	7.0	20.0x15.0	11
15		M78	Orion	D.N.	5h 46.8m	0 4	8.0	8.0x6.0	11
16		M1	Taurus	S.R.	5h 34.5m	22 01	8.4	6.0x4.0	5
17		M35	Gemini	O.C.	6h 8.9m	24 20	5.5	28	5
18		M37	Auriga	O.C.	5h 52.4m	32 33	6.0	24	5
19		M36	Auriga	O.C.	5h 36.1	34 08	6.5	12	5
20		M38	Auriga	O.C.	5h 28.7m	35 50	7.0	21	5
21		M41	Canis Major	O.C.	6h 47.0m	-20 44	5.0	38	19
22		M50	Monocerus	O.C.	7h 3.2m	-8 20	7.0	16	12
23		M47	Puppis	O.C.	7h 36.6m	-14 30	4.5	30	12
24		M46	Puppis	O.C.	7h 41.8m	-14 49	6.5	27	12
25		M93	Puppis	O.C.	7h 44.6m	-23 52	6.5	22	19
26		M48	Hydra	O.C.	8h 13.8m	-5 48	5.5	54	12
27		M44	Cancer	O.C.	8h 40.1m	19 59	4.0	95	6
28		M67	Cancer	O.C.	8h 50.4m	11 49	7.5	30	12
29		M81	Ursa Major	Galaxy	9h 55.6m	69 4	8.5	21.0x10.0	2
30		M82	Ursa Major	Galaxy	9h 55.9m	69 41	9.5	9.x4.0	2
31		M108	Ursa Major	Galaxy	11h 11.6m	55 41	11.0	8.0x1.0	2
32		M97	Ursa Major	P.N.	11h 14.8m	55 1	12.0	3.4x3.3	2
33		M109	Ursa Major	Galaxy	11h 57.6m	53 23	11.0	7.0x4.0	2
34		M106	Canes Venatici	Galaxy	12h 18.9m	47 19	9.5	19.0x8.0	2, 7
35		M40	Ursa Major	D.S.	12h 20.0m	58 22	9.0	0.8	2
36		M95	Leo	Galaxy	10h 43.9m	11 42	11.0	4.4x3.3	13
37		M96	Leo	Galaxy	10h 46.7m	11 49	10.5	6.0x4.0	13
38		M105	Leo	Galaxy	10h 47.8m	12 35	11.0	2	13
39		M65	Leo	Galaxy	11h 18.9m	13 6	10.5	8.0x1.5	13
40		M66	Leo	Galaxy	11h 20.2m	13 0	10.0	8.0x2.5	13
41		M101	Ursa Major	Galaxy	14h 3.3m	54 22	8.5	22	2, 7
42		M51	Canes Venatici	Galaxy	13h 30.0m	47 11	8.0	11.0x7.0	7
43		M63	Canes Venatici	Galaxy	13h 15.8m	42 2	8.5	10.0x6.0	7
44		M94	Canes Venatici	Galaxy	12h 50.9m	41 8	9.5	7.0x3.0	7
45		M3	Canes Venatici	G.C.	13h 42.2m	28 23	6.4	16.2	7
46		M53	Coma Berenices	G.C.	13h 12.9m	18 10	8.5	12.6	7
47		M64	Coma Berenices	Galaxy	12h 56.7m	21 41	9.0	9.3x5.4	7
48		M60	Virgo	Galaxy	12h 43.7m	11 34	10.5	7.0x6.0	13, 14
49		M59	Virgo	Galaxy	12h 42.1m	11 39	11.5	5.0x3.5	13, 14
50		M58	Virgo	Galaxy	12h 37.8m	11 50	11.0	5.5x4.5	13, 14
51		M89	Virgo	Galaxy	12h 35.7m	12 34	11.5	4	13, 14
52		M90	Virgo	Galaxy	12h 36.9m	13 10	11.0	9.5x4.5	13, 14
53		M88	Coma Berenices	Galaxy	12h 32.1m	14 26	11.0	7.0x4.0	13, 14
54		M91	Coma Berenices	Galaxy	12h 35.5m	14 30	11.5	5.4x4.4	13, 14
55		M87	Virgo	Galaxy	12h 30.9m	12 24	11.0	7	13, 14
56		M86	Virgo	Galaxy	12h 26.3m	12 57	11.0	7.5x5.5	13, 14
57		M84	Virgo	Galaxy	12h 25.1m	12 54	11.0	5	13, 14

### Messier Marathon Search Order

Order	Obs.	M#	Constellation	Type	R.A.	Dec.	Mag	Size	Sky Atlas
58		M100	Coma Berenices	Galaxy	12h 23.0m	15 50	10.5	7.0x6.0	7
59		M85	Coma Berenices	Galaxy	12h 25.5m	18 12	10.5	7.1x5.2	7
60		M98	Coma Berenices	Galaxy	12h 13.9m	14 55	11.0	9.5x3.2	7
61		M99	Coma Berenices	Galaxy	12h 18.9m	14 26	10.5	5.4x4.8	7
62		M49	Virgo	Galaxy	12h 29.8m	8 1	10.0	9.0x7.5	13, 14
63		M61	Virgo	Galaxy	12h 22.0m	4 29	10.5	6.0x5.5	13, 14
64		M104	Virgo	Galaxy	12h 39.9m	-11 37	9.5	9.0x4.0	13, 14
65		M68	Hydra	G.C.	12h 39.5m	-26 45	9.0	12	21
66		M83	Hydra	Galaxy	13h 37.1m	-29 52	8.5	11.0x10.0	21
67		M102	Draco	Galaxy	15h 6.5m	55 45	10.5	5.2x2.3	2
68		M5	Serpens Caput	G.C.	15h 18.6m	2 5	5.8	17.4	15
69		M13	Hercules	G.C.	16h 41.7m	36 28	5.9	16.6	8
70		M92	Hercules	G.C.	17h 17.1m	43 8	7.5	11.2	8
71		M12	Ophiucus	G.C.	16h 47.2m	-1 57	6.6	14.5	15
72		M10	Ophiucus	G.C.	16h 57.1m	-4 6	6.6	15.1	15
73		M14	Ophiucus	G.C.	17h 37.6m	-3 15	7.6	11.7	15
74		M107	Ophiucus	G.C.	16h 32.5m	-13 3	10.0	10	15
75		M80	Scorpius	G.C.	16h 17.0m	-22 59	8.5	8.9	22
76		M4	Scorpius	G.C.	16h 23.6m	-26 32	5.9	26.3	22
77		M19	Ophiucus	G.C.	17h 2.6m	-26 16	8.5	13.5	22
78		M62	Ophiucus	G.C.	17h 1.2m	-30 7	8.0	14.1	22
79		M6	Scorpius	O.C.	17h 40.1m	-32 13	4.2	15	22
80		M7	Scorpius	O.C.	17h 53.9m	-34 49	3.3	80	22
81		M8	Sagittarius	D.N.	18h 3.1m	-24 23	5.0	35.0x50.0	22
82		M20	Sagittarius	D.N.	18h 2.3m	-23 2	5.0	28	22
83		M21	Sagittarius	O.C.	18h 4.6m	-22 30	7.0	13	22
84		M23	Sagittarius	O.C.	17h 56.8m	-19 1	6.0	27	15, 22
85		M9	Ophiucus	G.C.	17h 19.2m	-18 31	7.9	9.3	15
86		M24	Sagittarius	S.C.	18h 18.4m	-18 25	11.5	5	22
87		M25	Sagittarius	O.C.	18h 28.8m	-19 17	4.9	40	22
88		M18	Sagittarius	O.C.	18h 19.9m	-17 8	8.0	9	15, 22
89		M17	Sagittarius	D.N.	18h 20.8m	-16 11	7.0	11	15, 16
90		M16	Serpens Claudia	O.C.	18h 18.8m	-13 47	6.5	7	15, 16
91		M11	Scutum	O.C.	18h 51.1m	-6 16	5.8	14	15, 16
92		M26	Scutum	O.C.	18h 45.2m	-9 24	9.5	15	16
93		M22	Sagittarius	G.C.	18h 36.4m	-29 54	6.5	24	22
94		M28	Sagittarius	G.C.	18h 24.5m	-24 52	8.5	11.2	22
95		M69	Sagittarius	G.C.	18h 34.4m	-32 21	9.0	7.1	22
96		M70	Sagittarius	G.C.	18h 43.2m	-32 18	9.0	7.8	22
97		M57	Lyra	P.N.	18h 53.6m	33 2	9.5	1.4x1.0	8
98		M56	Lyra	G.C.	19h 16.6m	30 11	9.5	7.1	8
99		M29	Cygnus	O.C.	20h 23.9m	38 32	9.0	7	9
100		M39	Cygnus	O.C.	21h 32.2m	48 26	5.5	32	9
101		M71	Sagitta	G.C.	19h 53.8m	18 47	8.5	7.2	8
102		M27	Vulpecula	P.N.	19h 59.6m	22 43	7.5	8.0x5.6	8
103		M54	Sagittarius	G.C.	18h 55.1m	-30 29	8.5	9.1	22
104		M55	Sagittarius	G.C.	19h 40.0m	-30 58	7.0	19	22
105		M15	Pegasus	G.C.	21h 30m	12 10	6.4	12.3	16
106		M75	Sagittarius	G.C.	20h 6.1m	-21 55	9.5	6	22, 23
107		M72	Aquarius	G.C.	20h 53.5m	-12 32	10.0	5.9	16
108		M73	Aquarius	Asterism	20h 59.0m	-12 3	9.0	2.8	16
109		M2	Aquarius	G.C.	21h 33.5m	-0 49	6.5	12.9	16, 17
110		M30	Capricornus	G.C.	21h 40.4m	-23 11	8.5	11	23

<b>Messier Marathon Timing Chart</b>							<b>Module #1 - 15 Objects - 7:00 PM to 8:00 PM</b>								
Name: _____ Date Viewed: _____ Location: _____ Telescope: _____ Conditions: _____							√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>	√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>	
							—	M 74	GX	10	—	M 76	PN	11	
							—	M 77	GX	10	—	M 34	OC	4	
							—	M 33	GX	4	—	M 45	OC	4	
							—	M 31	GX	4	—	M 79	GC	19	
							—	M 32	GX	4	—	M 42	EN	11	
							—	M 110	GX	4	—	M 43	EN	11	
							—	M 52	OC	3	—	M 78	BN	11	
							—	M 103	OC	1	<b>15 Objects</b>				
<b>Module #2 - 29 Objects - 8:00 PM to 10:00 PM</b>							<b>Module #3 - 26 Objects - 10:15 PM to 1:00 AM</b>								
√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>	√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>	√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>	√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>
—	M 1	SR	5	—	M 108	GX	2	—	M 51	GX	7	—	M 100	GC	7
—	M 35	OC	5	—	M 97	PN	2	—	M 63	GX	7	—	M 85	GC	7
—	M 37	OC	5	—	M 109	GX	2	—	M 94	GX	7	—	M 98	GC	7
—	M 36	OC	5	—	M 40	DS	2	—	M 60	GX	13	—	M 99	GC	7
—	M 38	OC	5	—	M 101	GX	2	—	M 59	GX	13	—	M 49	GC	13
—	M 41	OC	19	—	M 106	GX	2	—	M 58	GX	13	—	M 61	GC	13
—	M 50	OC	12	—	M 65	GX	13	—	M 89	GX	13	—	M 104	GC	14
—	M 47	OC	12	—	M 66	GX	13	—	M 90	GX	13	—	M 68	GC	21
—	M 46	OC	12	—	M 95	GX	13	—	M 88	GX	14	—	M 83	GX	21
—	M 93	OC	19	—	M 96	GX	13	—	M 91	GX	14	—	M 102	GX	2
—	M 48	OC	12	—	M 105	GX	13	—	M 87	GX	13	—	M 5	GC	15
—	M 44	OC	12	—	M 3	GC	7	—	M 86	GX	13	—	M 13	GC	8
—	M 67	OC	12	—	M 53	GC	7	—	M 84	GX	13	—	M 92	GC	8
—	M 81	GX	2	—	M 64	GX	7	<b>26 Objects</b>							
—	M 82	GX	2	<b>29 Objects</b>			<b>26 Objects</b>								
<b>Module #4 - 26 Objects - 1:30 AM TO 4:00 AM</b>							<b>Module #5 - 14 Objects - 4:00 AM TO DAWN</b>								
√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>	√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>	√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>	√	<b>M#</b>	<b>Type</b>	<b>S.A. 2000</b>
—	M 12	GC	15	—	M 23	OC	15	—	M 57	PN	8	—	M 55	GC	22
—	M 10	GC	15	—	M 9	GC	15	—	M 56	GC	8	—	M 15	GC	16
—	M 14	GC	15	—	M 24	SC	15	—	M 29	OC	9	—	M 75	GC	23
—	M 107	GC	15	—	M 25	OC	15	—	M 39	OC	9	—	M 72	GC	16
—	M 80	GC	22	—	M 18	OC	15	—	M 71	GC	8	—	M 73	AST	16
—	M 4	GC	22	—	M 17	OC	15	—	M 27	PN	9	—	M 2	GC	16
—	M 19	GC	22	—	M 16	OC	16	—	M 54	GC	22	—	M 30	GC	23
—	M 62	GC	22	—	M 11	OC	16	<b>26 Objects</b>							
—	M 6	OC	22	—	M 26	OC	16	<b>14 Objects</b>							
—	M 7	OC	22	—	M 28	GC	22	<b>14 Objects</b>							
—	M 8	OC	22	—	M 69	GC	22	<b>14 Objects</b>							
—	M 20	OC	22	—	M 70	GC	22	<b>14 Objects</b>							
—	M 21	OC	22	—	M 22	GC	22	<b>14 Objects</b>							