

# 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 S.A. 10
___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 S.A. 10
___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 S.A. 4
___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 S.A. 4
___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 S.A. 4
___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 S.A. 4
___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 S.A. 3
___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 S.A. 1
___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 S.A. 1,4
___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 S.A. 1,4
___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 S.A. 4
___mm	___x	___Diff	___B	___F	___L ___S EI EOn Oval R Patch UB ___Nuc NND ___HISB AV Susp PFGE

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<b>12</b>	<b>M79</b>	<b>NGC 1904</b>	<b>Globular Cluster</b>	<b>Lepus</b>	<b>Time: _____</b>
			R.A.: 5h 24.5m	Dec.: -24 33	8.5      8.7      S.A. 19
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>13</b>	<b>M42</b>	<b>NGC 1976</b>	<b>Emission Nebula</b>	<b>Orion</b>	<b>Time: _____</b>
			R.A.: 5h 35.3m	Dec.: -5 25	5.0      85.0x60.0      S.A. 11
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>14</b>	<b>M43</b>	<b>NGC 1982</b>	<b>Emission Nebula</b>	<b>Orion</b>	<b>Time: _____</b>
			R.A.: 5h 35.5m	Dec.: -5 16	7.0      20.0x15.0      S.A. 11
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>15</b>	<b>M78</b>	<b>NGC 2068</b>	<b>Bright Nebula</b>	<b>Orion</b>	<b>Time: _____</b>
			R.A.: 5h 46.8m	Dec.: 0 4	8.0      8.0x6.0      S.A. 11
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>16</b>	<b>M1</b>	<b>NGC 1952</b>	<b>Supernova Remnant</b>	<b>Taurus</b>	<b>Time: _____</b>
			R.A.: 5h 34.5m	Dec.: 22 01	8.4      6.0x4.0      S.A. 5
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>17</b>	<b>M35</b>	<b>NGC 2168</b>	<b>Open Cluster</b>	<b>Gemini</b>	<b>Time: _____</b>
			R.A.: 6h 8.9m	Dec.: 24 21	5.5      28      S.A. 5
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>18</b>	<b>M38</b>	<b>NGC 1912</b>	<b>Open Cluster</b>	<b>Auriga</b>	<b>Time: _____</b>
			R.A.: 5h 28.7m	Dec.: 35 51	7.0      21      S.A. 5
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>19</b>	<b>M36</b>	<b>NGC 1960</b>	<b>Open Cluster</b>	<b>Auriga</b>	<b>Time: _____</b>
			R.A.: 5h 36.1	Dec.: 34 08	6.5      12      S.A. 5
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>20</b>	<b>M37</b>	<b>NGC 2099</b>	<b>Open Cluster</b>	<b>Auriga</b>	<b>Time: _____</b>
			R.A.: 5h 52.4m	Dec.: 32 33	6.0      24      S.A. 5
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>21</b>	<b>M41</b>	<b>NGC 2287</b>	<b>Open Cluster</b>	<b>Canis Major</b>	<b>Time: _____</b>
			R.A.: 6h 47.0m	Dec.: -20 44	5.0      38      S.A. 19
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					
<b>22</b>	<b>M50</b>	<b>NGC 2323</b>	<b>Open Cluster</b>	<b>Monoceros</b>	<b>Time: _____</b>
			R.A.: 7h 3.2m	Dec.: -8 20	7.0      16      S.A. 12
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					

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<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      S.A. 12
____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      S.A. 12
____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      S.A. 19
____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      S.A. 12
____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      S.A. 6
____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      S.A. 12
____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      S.A. 2
____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      S.A. 2
____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      S.A. 2
____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      S.A. 2
____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      S.A. 2
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					

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<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	S.A. 2,7	
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 2
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 13
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 13
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 13
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 13
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 13
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 2,7
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 7
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 7
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					
<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
					S.A. 7
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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45	M3	NGC 5272	Globular Cluster	Canes Venatici	Time: _____
			R.A.: 13h 42.2m	Dec.: 28 23	6.4      16.2      S.A. 7
____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      S.A. 7
____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      S.A. 7
____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      S.A. 13,14
____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      S.A. 13,14
____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      S.A. 13,14
____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      S.A. 13,14
____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      S.A. 13,14
____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      S.A. 13,14
____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      S.A. 13,14
____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      S.A. 13,14
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					

Date: \_\_\_\_\_  
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# 2019 Messier Marathon

56	M86	NGC 4406	Galaxy	Virgo	Time: _____
			R.A.: 12h 26.3m	Dec.: 12 57	11.0
			7.5x5.5	S.A. 13,14	
____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		
			S.A. 13,14		
____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		
			S.A. 7		
____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		
			S.A. 7		
____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		
			S.A. 7		
____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		
			S.A. 7		
____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		
			S.A. 13,14		
____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		
			S.A. 13,14		
____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		
			S.A. 13,14		
____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		
			S.A. 21		
____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		
			S.A. 21		
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

Date: \_\_\_\_\_  
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# 2019 Messier Marathon

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

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

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<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 S.A. 15,16
____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 S.A. 15,16
____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 S.A. 15,16
____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 S.A. 16
____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 S.A. 22
____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 S.A. 22
____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 S.A. 22
____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 S.A. 22
____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 S.A. 8
____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 S.A. 8
____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 S.A. 9
____mm ____x ____Diff ____B ____F ____L ____S EI EOn Oval R Patch UB ____Nuc NND ____HISB AV Susp PFGE					

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# 2019 Messier Marathon

<b>100</b>	<b>M39</b>	<b>NGC 7092</b>	<b>Open Cluster</b>	<b>Cygnus</b>	<b>Time:</b> _____
			R.A.: 21h 32.2m	Dec.: 48 26	5.5      32      S.A. 9
____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>	<b>Time:</b> _____
			R.A.: 19h 53.8m	Dec.: 18 47	8.5      7.2      S.A. 8
____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>	<b>Time:</b> _____
			R.A.: 19h 59.6m	Dec.: 22 43	7.5      8.0x5.6      S.A. 8
____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>	<b>Time:</b> _____
			R.A.: 18h 55.1m	Dec.: -30 29	8.5      9.1      S.A. 22
____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>	<b>Time:</b> _____
			R.A.: 19h 40.0m	Dec.: -30 58	7.0      19      S.A. 22
____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>	<b>Time:</b> _____
			R.A.: 21h 30m	Dec.: 12 10	6.4      12.3      S.A. 16
____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>	<b>Time:</b> _____
			R.A.: 20h 6.1m	Dec.: -21 55	9.5      6      S.A. 22,23
____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>	<b>Time:</b> _____
			R.A.: 20h 53.5m	Dec.: -12 32	10.0      5.9      S.A. 16
____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>	<b>Time:</b> _____
			R.A.: 20h 59.0m	Dec.: -12 38	9.0      2.8      S.A. 16
____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>	<b>Time:</b> _____
			R.A.: 21h 33.5m	Dec.: -0 49	6.5      12.9      S.A. 16,17
____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>	<b>Time:</b> _____
			R.A.: 21h 40.4m	Dec.: -23 11	8.5      11      S.A. 23
____mm    ____x    ____Diff    ____B    ____F    ____L    ____S    EI    EOn    Oval    R    Patch    UB    ____Nuc    NND    ____HISB    AV    Susp    PFGE					

1/22/09

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, Sky Atlas 2000 map number, R.A., Dec, E.P. focal length and magnification. These items are particularly useful if the results of the marathon will be used for the Messier Award of the Astronomical League.

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### 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>							