

2019 Messier Marathon - Date: _____

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|--------|-------------|-----------------|--------------------------|-------------------|-------------|-------|----|-----|------|---|-------|----|---------|-----|----------|----|------|------|
| 1 | M74 | NGC 628 | Galaxy | Pisces | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 2 | M77 | NGC 1068 | Galaxy | Cetus | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 3 | M33 | NGC 598 | Galaxy | Triangulum | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 4 | M31 | NGC 224 | Galaxy | Andromeda | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 5 | M32 | NGC 221 | Galaxy | Andromeda | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 6 | M110 | NGC 205 | Galaxy | Andromeda | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 7 | M52 | NGC 7654 | Open Cluster | Cassiopeia | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 8 | M103 | NGC 581 | Open Cluster | Cassiopeia | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 9 | M76 | NGC 650 | Planetary Nebula | Perseus | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 10 | M34 | NGC 1039 | Open Cluster | Perseus | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 11 | M45 | Mel 22 | Open Cluster | Taurus | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 12 | M79 | NGC 1904 | Globular Cluster | Lepus | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 13 | M42 | NGC 1976 | Emission Nebula | Orion | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 14 | M43 | NGC 1982 | Emission Nebula | Orion | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 15 | M78 | NGC 2068 | Bright Nebula | Orion | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 16 | M1 | NGC 1952 | Supernova Remnant | Taurus | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 17 | M35 | NGC 2168 | Open Cluster | Gemini | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 18 | M38 | NGC 1912 | Open Cluster | Auriga | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 19 | M36 | NGC 1960 | Open Cluster | Auriga | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 20 | M37 | NGC 2099 | Open Cluster | Auriga | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |

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| 21 | M41 | NGC 2287 | Open Cluster | Canis Major | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 22 | M50 | NGC 2323 | Open Cluster | Monoceros | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 23 | M47 | NGC 2422 | Open Cluster | Puppis | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 24 | M46 | NGC 2437 | Open Cluster | Puppis | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 25 | M93 | NGC 2447 | Open Cluster | Puppis | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 26 | M48 | NGC 2548 | Open Cluster | Hydra | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 27 | M44 | NGC 2632 | Open Cluster | Cancer | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 28 | M67 | NGC 2682 | Open Cluster | Cancer | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 29 | M81 | NGC 3031 | Galaxy | Ursa Major | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 30 | M82 | NGC 3034 | Galaxy | Ursa Major | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 31 | M108 | NGC 3556 | Galaxy | Ursa Major | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 32 | M97 | NGC 3587 | Planetary Nebula | Ursa Major | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 33 | M109 | NGC 3992 | Galaxy | Ursa Major | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 34 | M106 | NGC 4258 | Galaxy | Canes Venatici | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 35 | M40 | WINN4 | Double Star | Ursa Major | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 36 | M95 | NGC 3351 | Galaxy | Leo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 37 | M96 | NGC 3368 | Galaxy | Leo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 38 | M105 | NGC 3379 | Galaxy | Leo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 39 | M65 | NGC 3623 | Galaxy | Leo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 40 | M66 | NGC 3627 | Galaxy | Leo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |

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| 41 | M101 | NGC 5457 | Galaxy | Ursa Major | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 42 | M51 | NGC 5194 | Galaxy | Canes Venatici | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 43 | M63 | NGC 5055 | Galaxy | Canes Venatici | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 44 | M94 | NGC 4736 | Galaxy | Canes Venatici | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 45 | M3 | NGC 5272 | Globular Cluster | Canes Venatici | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 46 | M53 | NGC 5024 | Globular Cluster | Coma Berenices | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 47 | M64 | NGC 4826 | Galaxy | Coma Berenices | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 48 | M60 | NGC 4649 | Galaxy | Virgo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 49 | M59 | NGC 4621 | Galaxy | Virgo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 50 | M58 | NGC 4579 | Galaxy | Virgo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 51 | M89 | NGC 4552 | Galaxy | Virgo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 52 | M90 | NGC 4569 | Galaxy | Virgo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 53 | M88 | NGC 4501 | Galaxy | Coma Berenices | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 54 | M91 | NGC 4548 | Galaxy | Coma Berenices | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 55 | M87 | NGC 4486 | Galaxy | Virgo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 56 | M86 | NGC 4406 | Galaxy | Virgo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 57 | M84 | NGC 4374 | Galaxy | Virgo | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 58 | M100 | NGC 4321 | Galaxy | Coma Berenices | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 59 | M85 | NGC 4382 | Galaxy | Coma Berenices | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 60 | M98 | NGC 4192 | Galaxy | Coma Berenices | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |

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| 61 | M99 | NGC 4254 | Galaxy | Coma Berenices | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 62 | M49 | NGC 4472 | Galaxy | Virgo | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 63 | M61 | NGC 4303 | Galaxy | Virgo | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 64 | M104 | NGC 4594 | Galaxy | Virgo | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 65 | M68 | NGC 4590 | Globular Cluster | Hydra | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 66 | M83 | NGC 5236 | Galaxy | Hydra | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 67 | M102 | NGC 5866 | Galaxy | Draco | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 68 | M5 | NGC 5904 | Globular Cluster | Serpens | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 69 | M13 | NGC 6205 | Globular Cluster | Hercules | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 70 | M92 | NGC 6341 | Globular Cluster | Hercules | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 71 | M12 | NGC 6218 | Globular Cluster | Ophiuchus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 72 | M10 | NGC 6254 | Globular Cluster | Ophiuchus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 73 | M14 | NGC 6402 | Globular Cluster | Ophiuchus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 74 | M107 | NGC 6171 | Globular Cluster | Ophiuchus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 75 | M80 | NGC 6093 | Globular Cluster | Scorpius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 76 | M4 | NGC 6121 | Globular Cluster | Scorpius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 77 | M19 | NGC 6273 | Globular Cluster | Ophiuchus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 78 | M62 | NGC 6266 | Globular Cluster | Ophiuchus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 79 | M6 | NGC 6405 | Open Cluster | Scorpius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 80 | M7 | NGC 6475 | Open Cluster | Scorpius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |

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| 81 | M8 | NGC 6523 | Cluster W/Nebula | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 82 | M20 | NGC 6514 | Cluster W/Nebula | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 83 | M21 | NGC 6531 | Open Cluster | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 84 | M23 | NGC 6494 | Open Cluster | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 85 | M9 | NGC 6333 | Globular Cluster | Ophiuchus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 86 | M24 | IC 4715 | M.W. Star Cloud | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 87 | M25 | IC 4725 | Open Cluster | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 88 | M18 | NGC 6613 | Open Cluster | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 89 | M17 | NGC 6618 | Cluster W/Nebula | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 90 | M16 | NGC 6611 | Cluster W/Nebula | Serpens | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 91 | M11 | NGC 6705 | Open Cluster | Scutum | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 92 | M26 | NGC 6694 | Open Cluster | Scutum | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 93 | M22 | NGC 6656 | Globular Cluster | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 94 | M28 | NGC 6626 | Globular Cluster | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 95 | M69 | NGC 6637 | Globular Cluster | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 96 | M70 | NGC 6681 | Globular Cluster | Sagittarius | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 97 | M57 | NGC 6720 | Planetary Nebula | Lyra | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 98 | M56 | NGC 6779 | Globular Cluster | Lyra | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 99 | M29 | NGC 6913 | Open Cluster | Cygnus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |
| 100 | M39 | NGC7092 | Open Cluster | Cygnus | Time: _____ |
| ____mm | ____x | ____Diff | ____B ____F ____L ____S | El EOn Oval R Patch UB | ____Nuc NND ____HISB AV Susp PFGE |

Conditions: _____

Telescope: _____

2019 Messier Marathon - Date: _____

| | | | | | | | | | | | | | | | | | | |
|------------|------------|-----------------|-------------------------|--------------------|--------------------|-------|----|-----|------|---|-------|----|---------|-----|----------|----|------|------|
| 101 | M71 | NGC 6838 | Globular Cluster | Sagitta | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 102 | M27 | NGC 6853 | Planetary Nebula | Vulpecula | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 103 | M54 | NGC 6715 | Globular Cluster | Sagittarius | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 104 | M55 | NGC 6809 | Globular Cluster | Sagittarius | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 105 | M15 | NGC 7078 | Globular Cluster | Pegasus | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 106 | M75 | NGC 6864 | Globular Cluster | Sagittarius | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 107 | M72 | NGC 6981 | Globular Cluster | Aquarius | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 108 | M73 | NGC 6994 | Open Cluster | Aquarius | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 109 | M2 | NGC 7089 | Globular Cluster | Aquarius | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | EOn | Oval | R | Patch | UB | ____Nuc | NND | ____HISB | AV | Susp | PFGE |
| 110 | M30 | NGC 7099 | Globular Cluster | Capricornus | Time: _____ | | | | | | | | | | | | | |
| ____mm | ____x | ____Diff | ____B | ____F | ____L | ____S | El | 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, E.P. focal length and magnification. T

Conditions: _____

Page: 6 of 6

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 |

| Messier Marathon Timing Chart | | | | | | | Module #1 - 15 Objects - 7:00 PM to 8:00 PM | | | | | | | | |
|---|-----------|-------------|----------------------|-------------------|-----------|-------------|---|-------------------|-------------|----------------------|----------------------|-----------|-------------|----------------------|----------------------|
| Name: _____ Date Viewed: _____ Location: _____ Telescope: _____ Conditions: _____ | | | | | | | √ | M# | Type | S.A. 2000 | √ | M# | Type | S.A. 2000 | |
| | | | | | | | — | 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 | 15 Objects | | | | |
| Module #2 - 29 Objects - 8:00 PM to 10:00 PM | | | | | | | Module #3 - 26 Objects - 10:15 PM to 1:00 AM | | | | | | | | |
| √ | M# | Type | S.A. 2000 | √ | M# | Type | S.A. 2000 | √ | M# | Type | S.A. 2000 | √ | M# | Type | S.A. 2000 |
| — | 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 | 26 Objects | | | | | | | |
| — | M 82 | GX | 2 | 29 Objects | | | 26 Objects | | | | | | | | |
| Module #4 - 26 Objects - 1:30 AM TO 4:00 AM | | | | | | | Module #5 - 14 Objects - 4:00 AM TO DAWN | | | | | | | | |
| √ | M# | Type | S.A. 2000 | √ | M# | Type | S.A. 2000 | √ | M# | Type | S.A. 2000 | √ | M# | Type | S.A. 2000 |
| — | 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 | 26 Objects | | | | | | | |
| — | M 6 | OC | 22 | — | M 26 | OC | 16 | 14 Objects | | | | | | | |
| — | M 7 | OC | 22 | — | M 28 | GC | 22 | 14 Objects | | | | | | | |
| — | M 8 | OC | 22 | — | M 69 | GC | 22 | 14 Objects | | | | | | | |
| — | M 20 | OC | 22 | — | M 70 | GC | 22 | 14 Objects | | | | | | | |
| — | M 21 | OC | 22 | — | M 22 | GC | 22 | 14 Objects | | | | | | | |