

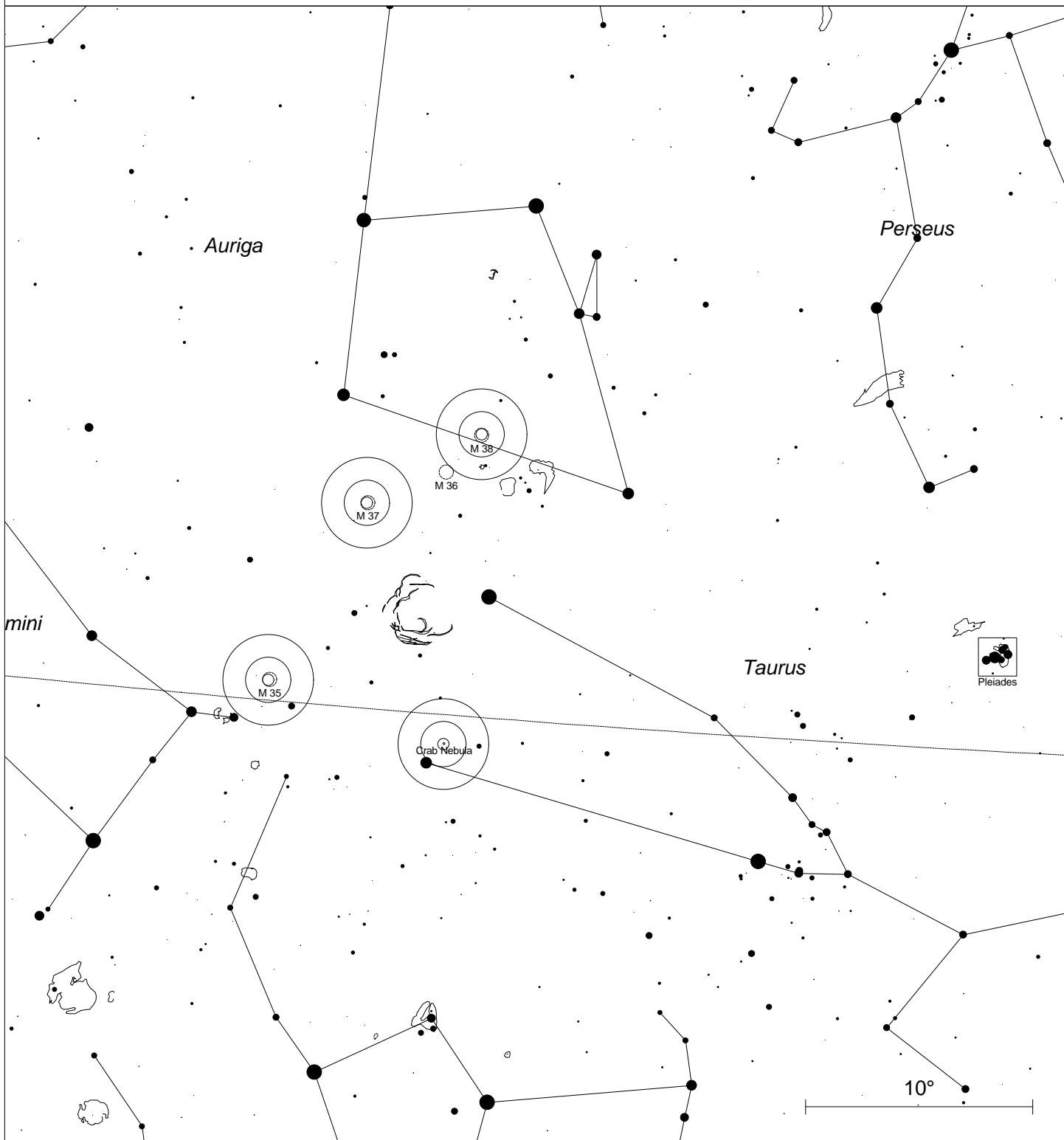
Map and Constallation Key to Messier Objects for TELRAD Finders

| Messier Object | Constallation | Telrad Map #'s | Common Name | Type | Distance Light Years | Other Data |
|----------------|----------------|----------------|-------------------|----------------|----------------------|--------------|
| M1 | Taurus | Map 1, 2 | Crab Nebula | Supernova | 6,000 | |
| M2 | Aquarius | Map 11 | | Glob. Cluster | | |
| M3 | Canes Venatici | Map 6, 7 | | Glob. Cluster | 30,000 | 44500 Stars |
| M4 | Scorpius | Map 13 | | Glob. Cluster | | |
| M5 | Serpens | Map 6 | | Glob. Cluster | | |
| M6 | Scorpius | Map 10, 13 | Butterfly Cluster | Open Cluster | 2,000 | |
| M7 | Scorpius | Map 10, 13 | | Open Cluster | | |
| M8 | Sagittarius | Map 10 | Lagoon Nebula | Emmi. Nebula | 2,500 | |
| M9 | Ophiuchus | Map 12,10,13 | | Glob. Cluster | | |
| M10 | Ophiuchus | Map 12 | | Glob. Cluster | | |
| M11 | Scutum | Map 12 | Wild Duck Cluster | Open Cluster | | |
| M12 | Ophiuchus | Map 12 | | Glob. Cluster | | |
| M13 | Hercules | Map 9 | | Glob. Cluster | 25,000 | |
| M14 | Ophiuchus | Map 12, 10 | | Glob. Cluster | | |
| M15 | Pegasus | Map 11 | | Glob. Cluster | | |
| M16 | Serpens | Map 10 | Star-Queen/Eagle | Emmi. Nebula | | |
| M17 | Sagittarius | Map 10 | Swan/Omega Nebula | Emmi. Nebula | | 35 Stars |
| M18 | Sagittarius | Map 10 | | Open Cluster | 6,000 | |
| M19 | Ophiuchus | Map 13 | | Glob. Cluster | | |
| M20 | Sagittarius | Map 10 | Trifid Nebula | Emmi. Nebula | 2,200 | |
| M21 | Sagittarius | Map 10 | | Open Cluster | 3,000 | |
| M22 | Sagittarius | Map 10 | | Glob. Cluster | 10,000 | 70,000 Stars |
| M23 | Sagittarius | Map 10, 12 | | Open Cluster | 4,500 | |
| M24 | Sagittarius | Map 10 | | Star Cloud | | |
| M25 | Sagittarius | Map 10 | | Open Cluster | | |
| M26 | Scutum | Map 10 | | Glob. Cluster | 5,000 | |
| M27 | Vupecula | Map 8 | Dumbell Nebula | Planatary Neb. | 1,250 | |
| M28 | Sagittarius | Map 10 | | Glob. Cluster | 15,000 | |
| M29 | Cygnus | Map 8 | | Open Cluster | 7,200 | |
| M30 | Capricornus | Map 11 | | Glob. Cluster | | |
| M31 | Andromeda | Map 3 | Andromeda Galaxy | G-Spiral | 2.2 mil | 160 mil suns |
| M32 | Andromeda | Map 3 | Andromeda Comp. | G-Elliptical | | |
| M33 | Triangulum | Map 3 | | G-Spiral | | |
| M34 | Perseus | Map 3 | | Open Cluster | | |
| M35 | Gemini | Map 2 | | Open Cluster | 2,800 | |
| M36 | Auriga | Map 1 | | Open Cluster | 4,100 | |
| M37 | Auriga | Map 1 | | Open Cluster | 4,600 | |
| M38 | Auriga | Map 1 | | Open Cluster | 4,200 | |
| M39 | Cygnus | Map 8, 3 | | Open Cluster | | |
| M40 | Ursa Major | Map 5 | | Two Stars | | |
| M41 | Canis Major | Map 2 | | Open Cluster | 2,400 | |
| M42 | Orion | Map 2 | | Emmi Nebula | 1,000 | |
| M43 | Orion | Map 2 | | Emmi Nebula | 1,000 | |
| M44 | Sagittarius | Map 2 | Beehive Cluster | Open Cluster | 500 | 40 Stars |
| M45 | Taurus | Map 1 | Pleiades | Open Cluster | 400 | |
| M46 | Puppis | Map 2 | | Open Cluster | | |
| M47 | Puppis | Map 2 | | Open Cluster | | |
| M48 | Hydra | Map 2 | | Open Cluster | | |
| M49 | Virgo | Map 7 | | G-Elliptical | | |
| M50 | Monoceros | Map 2 | | Open Cluster | | |
| M51 | Canes Venatici | Map 5 | Whirlpool Galaxy | G-Spiral | 15 mil | |
| M52 | Cassiopeia | Map 3 | | Open Cluster | | |
| M53 | Coma Berenices | Map 6, 7 | | Glob. Cluster | | |
| M54 | Sagittarius | Map 10 | | Glob. Cluster | 50,000 | |
| M55 | Sagittarius | Map 10 | | Glob. Cluster | 20,000 | |
| M56 | Lyra | Map 8 | | Glob. Cluster | 40,000 | |
| M57 | Lyra | Map 8, 9 | Ring Nebula | Planatary Neb. | 4,100 | |

Map and Constallation Key to Messier Objects for TELRAD Finders

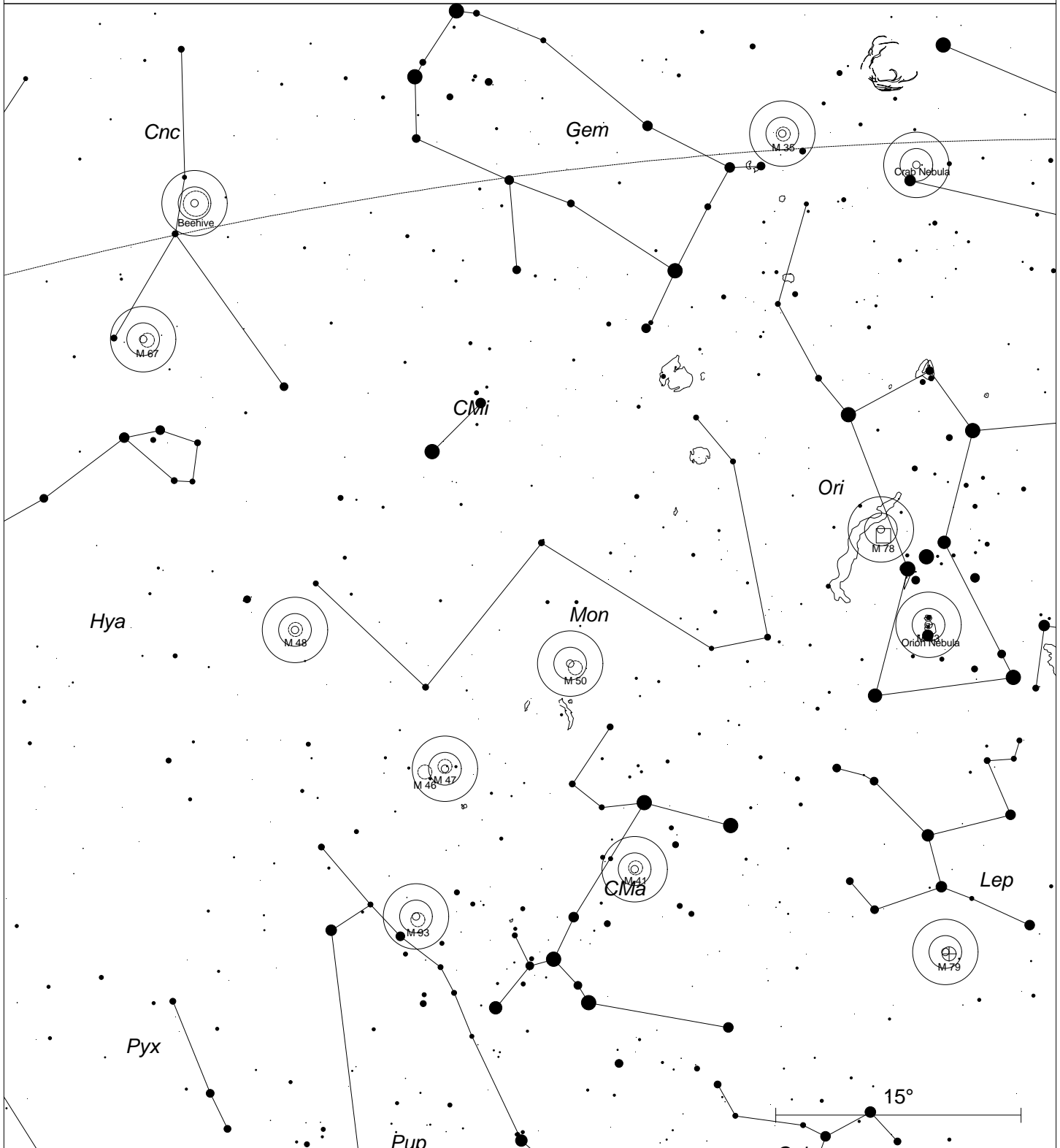
| Messier Object | Constallation | Telrad Map #'s | Common Name | Type | Distance Light Years | Other Data |
|----------------|----------------|----------------|------------------|----------------|----------------------|----------------|
| M58 | Virgo | Map 7 | | G-Spiral | | |
| M59 | Virgo | Map 7 | | G-Elliptical | | |
| M60 | Virgo | Map 7 | | G-Elliptical | | |
| M61 | Virgo | Map 7, 14 | Blackeye Galaxy | G-Spiral | | |
| M62 | Ophiuchus | Map 13 | | Glob. Cluster | | |
| M63 | Canes Venatici | Map 5, 6 | Sunflower Galaxy | G-Spiral | | |
| M64 | Coma Berenices | Map 6, 7 | | G-Spiral | | |
| M65 | Leo | Map 4, 7 | | G-Spiral | 35 mil | |
| M66 | Leo | Map 4 | | G-Spiral | | |
| M67 | Cancer | Map 2 | | Open Cluster | | |
| M68 | Hydra | Map 14 | | Glob. Cluster | | |
| M69 | Sagittarius | Map 10 | | Glob. Cluster | | |
| M70 | Sagittarius | Map 10 | | Glob. Cluster | 65,000 | |
| M71 | Sagittarius | Map 8 | | Glob. Cluster | 8,500 | One of nearest |
| M72 | Aquarius | Map 11 | | Glob. Cluster | | |
| M73 | Aquarius | Map 11 | | Open Cluster | | |
| M74 | Pisces | Map 3 | | G-Spiral | | |
| M75 | Sagittarius | Map 11 | | Glob. Cluster | | |
| M76 | Perseus | Map 3 | Little Dumbell | Planetary Neb. | 3,400 | |
| M77 | Cetus | Map 15 | | G-Spiral | | |
| M78 | Orion | Map 2 | | Refle. Nebula | | |
| M79 | Lepus | Map 2 | | Glob. Cluster | 54,000 | |
| M80 | Scorpius | Map 13 | | Glob. Cluster | | |
| M81 | Ursa Major | Map 5 | | G-Spiral | 7 mil | |
| M82 | Ursa Major | Map 5 | Exploding Galaxy | G-Irregular | | |
| M83 | Hydra | Map 14 | | G-Spiral | | |
| M84 | Virgo | Map 7 | | G-Elliptical | | |
| M85 | Coma Berenices | Map 7 | | G-Spiral | | |
| M86 | Virgo | Map 7 | | G-Elliptical | | |
| M87 | Virgo | Map 7 | | G-Elliptical | | |
| M88 | Coma Berenices | Map 7 | | G-Spiral | | |
| M89 | | Map 7 | | G-Elliptical | | |
| M90 | Virgo | Map 7 | | G-Spiral | | |
| M91 | Virgo | Map 7 | | G-Spiral | | |
| M92 | Hercules | Map 9 | | Glob. Cluster | 28,000 | |
| M93 | Puppis | Map 2 | | Open Cluster | | |
| M94 | Canes Venatici | Map 5, 6 | | G-Spiral | | |
| M95 | Leo | Map 4 | | G-Spiral | | |
| M96 | Leo | Map 4 | | G-Spiral | | |
| M97 | Ursa Major | Map 5 | Owl Nebula | Planetary Neb. | 2,600 | |
| M98 | Coma Berenices | Map 7 | | G-Spiral | | |
| M99 | Coma Berenices | Map 7 | | G-Spiral | | |
| M100 | Coma Berenices | Map 7 | | G-Spiral | | |
| M101 | Ursa Major | Map 5 | | G-Spiral | 15 mil | |
| M102 | Draco | Map 5 | | G-Spiral | 15 mil | |
| M103 | Cassiopeia | Map 3 | | Open Cluster | 8,000 | |
| M104 | Virgo | Map 14 | Sombrero Galaxy | G-Spiral | | |
| M105 | Leo | Map 4 | | G-Elliptical | | |
| M106 | Canes Venatici | Map 5 | | G-Spiral | | |
| M107 | Ophiuchus | Map 12, 13 | | Glob. Cluster | | |
| M108 | Ursa Major | Map 5 | | G-Spiral | 25 mil | |
| M109 | Ursa Major | Map 5 | | G-Spiral | | |
| M110 | Andromeda | Map 3 | Andromeda Comp. | G-Elliptical | | |

MAP 1
 AURIGA, Taurus
 M1, M35, M36, M37, M38, M45



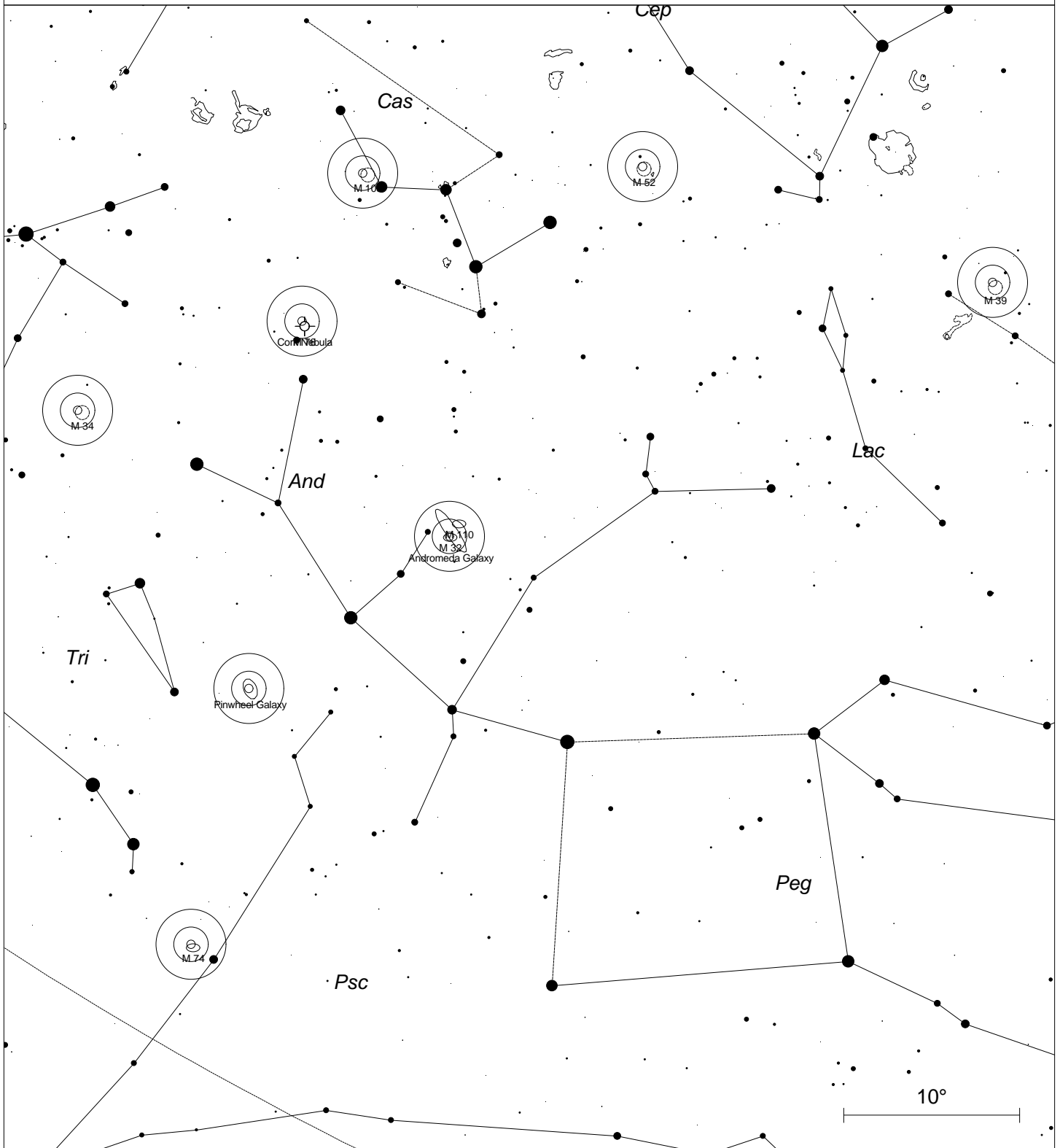
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|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ☾ Galaxy | ⊕ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | ☄ Bright Nebula | |

MAP 2
CANNIS MAJOR, MONOCEROS, Cancer, Gemini, Orion, Lepus
M1, M35, M41, M42, M43, M44, M45, M46, M47, M48, M50, M67, M78, M79, M93



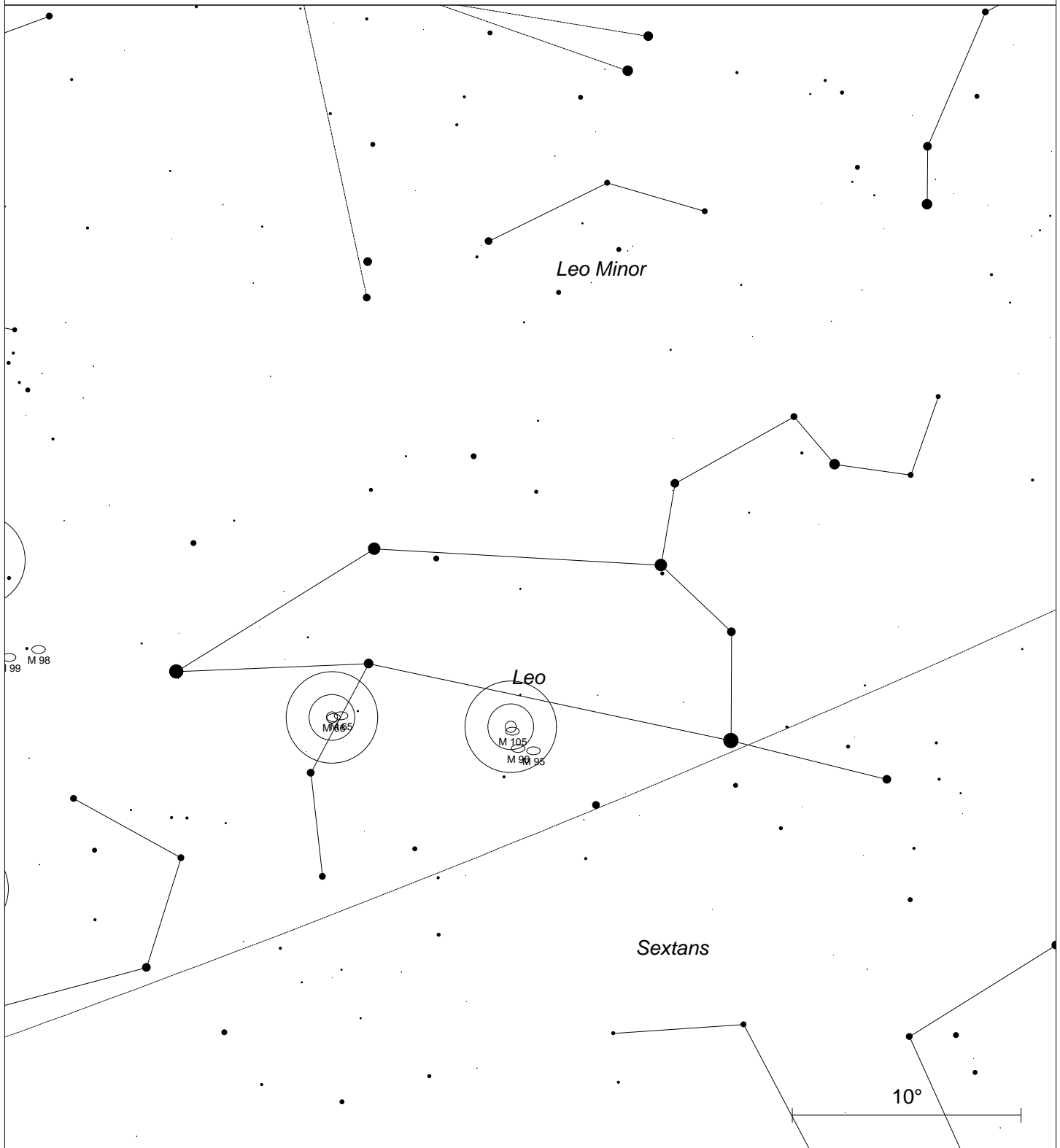
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| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ☉ Galaxy | ⊕ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP 3
ANDROMEDA, TRINGULUM, LACERTA, Cassiopeia, Pegasus, Pisces
M31, M32, M33, M34, M39, M52, M74, M76, M103, M110



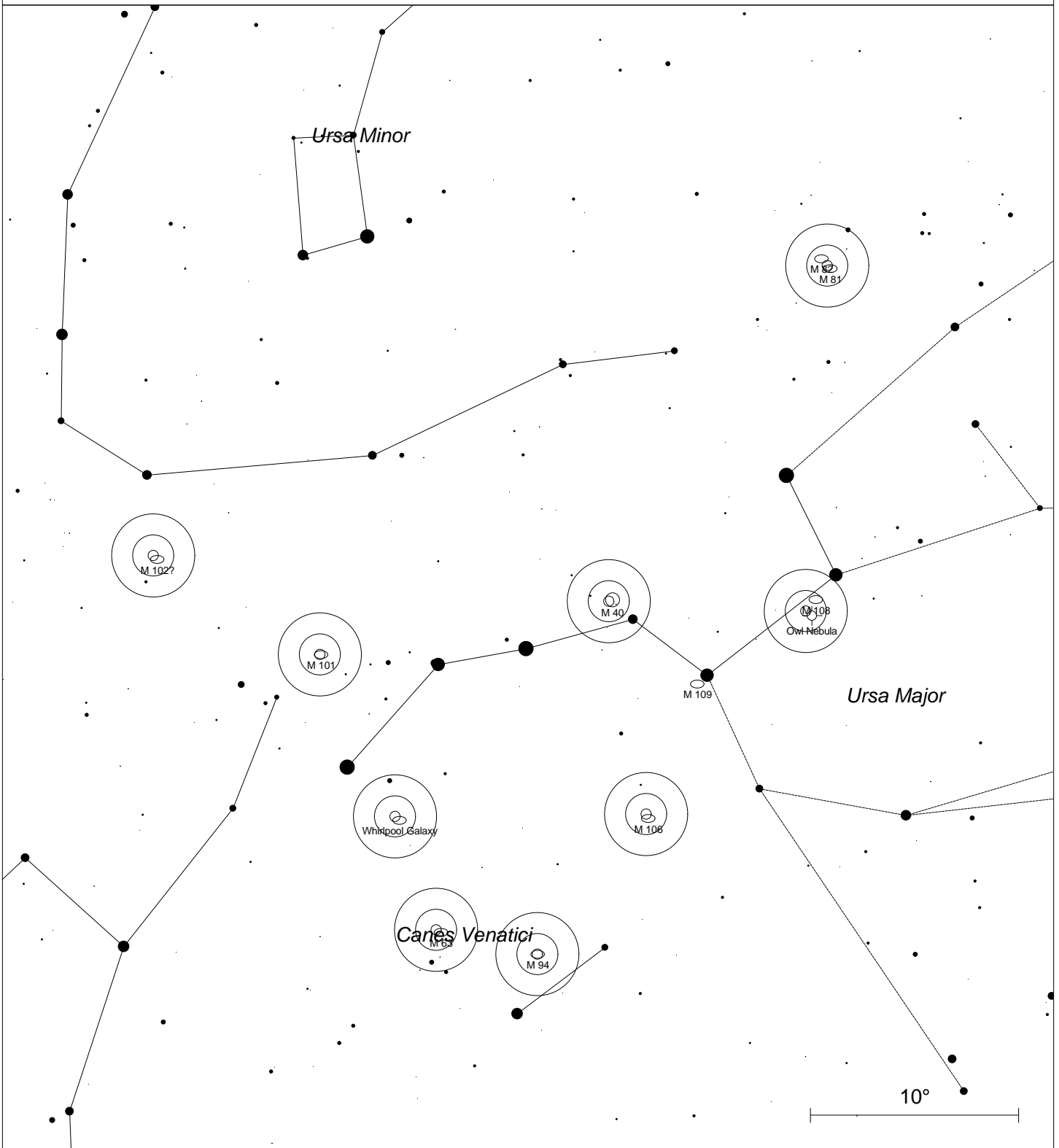
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| ● 2.5 | ● 5 | ☄ Asteroid | ⊕ Planetary Nebula |
| ● 3 | ● 5.5 | ○ Galaxy | ⊕ Quasar |
| ● 3.5 | ● >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP 4
LEO, LEO MINOR
M65, M66, M95, M96, M105



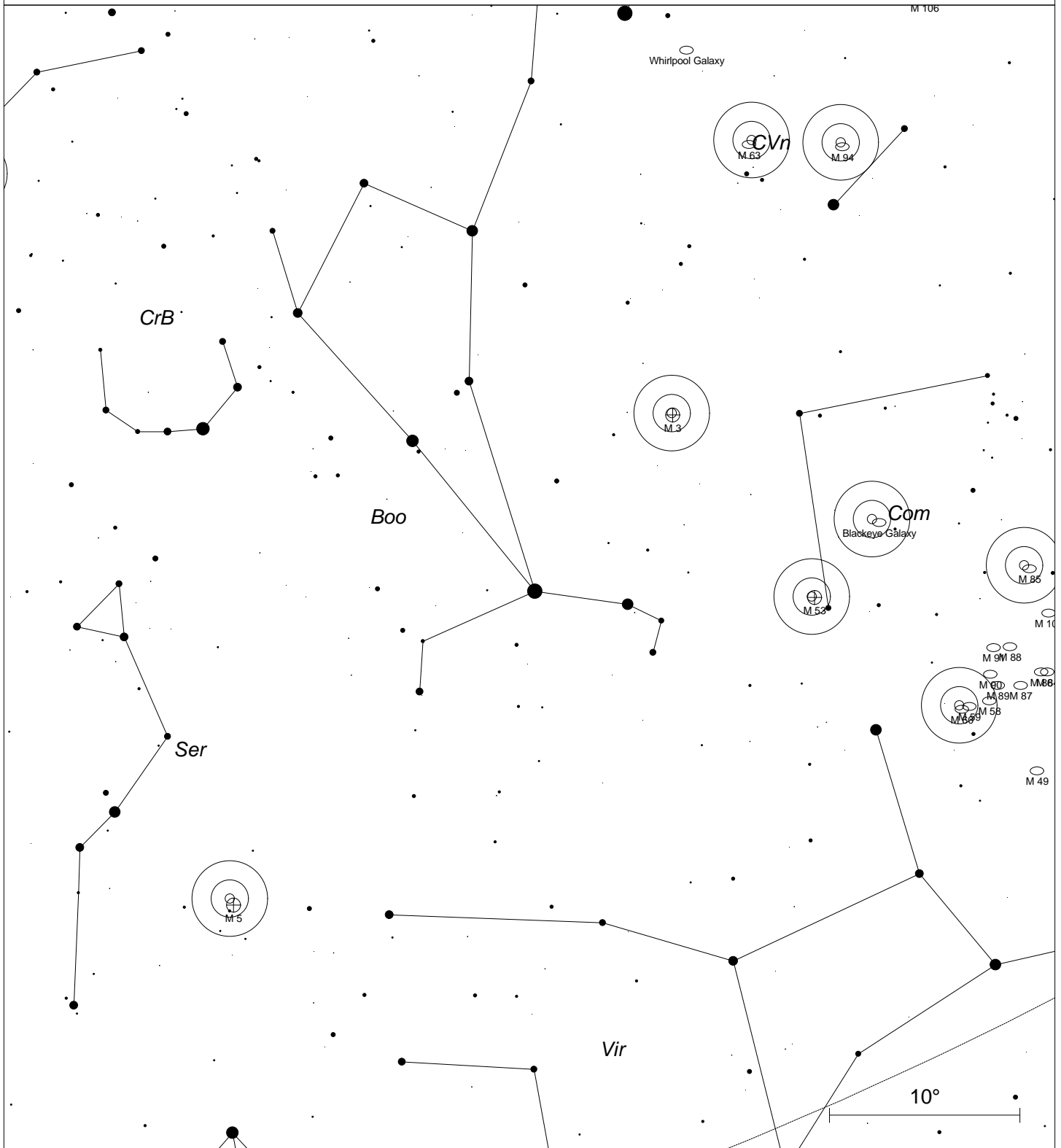
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|-------|-----------------|--------------------|
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| ● 2.5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | ○ Galaxy | ⊕ Quasar |
| ● 3.5 | ○ Open Cluster | ○ Other Object |
| ● 4 | □ Bright Nebula | |
| ● 4.5 | | |
| ● 5 | | |
| ● 5.5 | | |
| ● >6 | | |

MAP 5
CANES VENATICI, Ursa Major
M40, M51, M63, M81, M82, M94, M97, M101, M102, M108, M109,



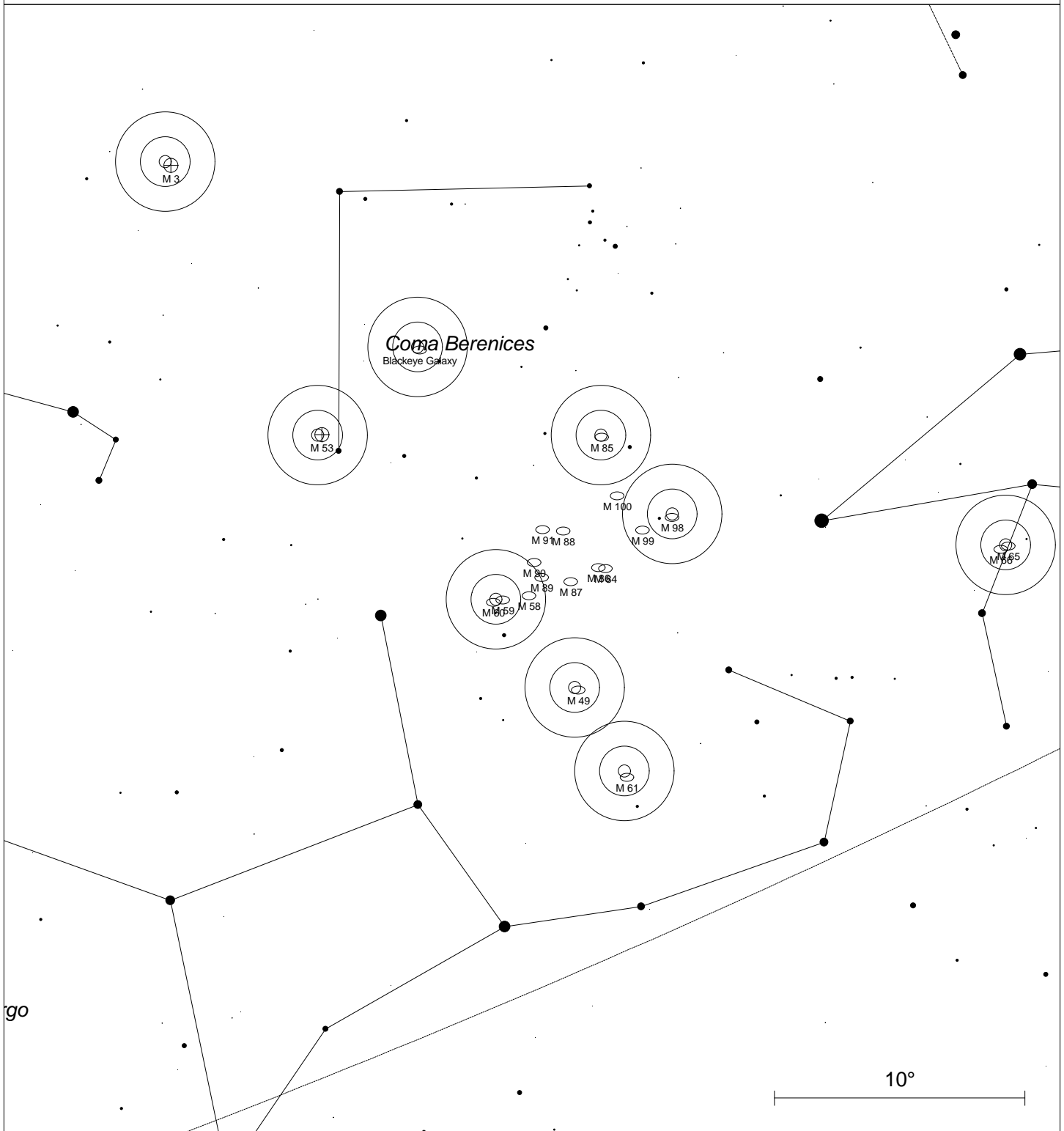
| STARS | | SYMBOLS | |
|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ○ Galaxy | ⊗ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP 6
SERPENS, COMA BERNICES, CANES VENATICI, Bootes
M3, M5, M53, M63, M64, M94



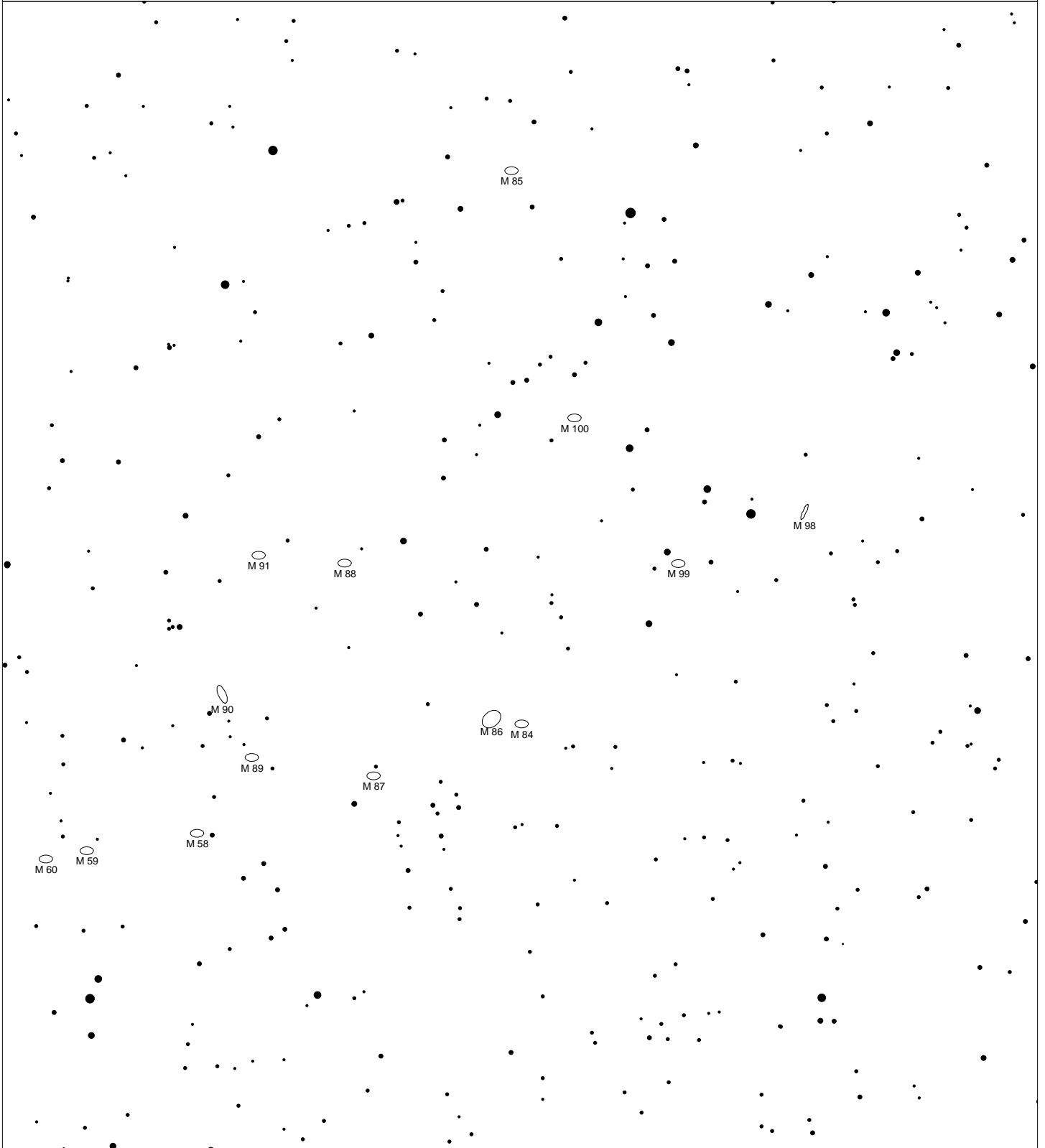
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| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ○ Galaxy | ⊗ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP 7
COMA BERENICES, Virgo, Leo (Virgo Cluster of Galaxies)
M3, M49, M53, M58, M59, M60, M61, M64, M65, M66
M84, M86, M87, M88, M90, M91, M98, M99, M100



| STARS | | SYMBOLS | |
|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ○ Galaxy | ⊗ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

Zoom in View of Virgo Clusters



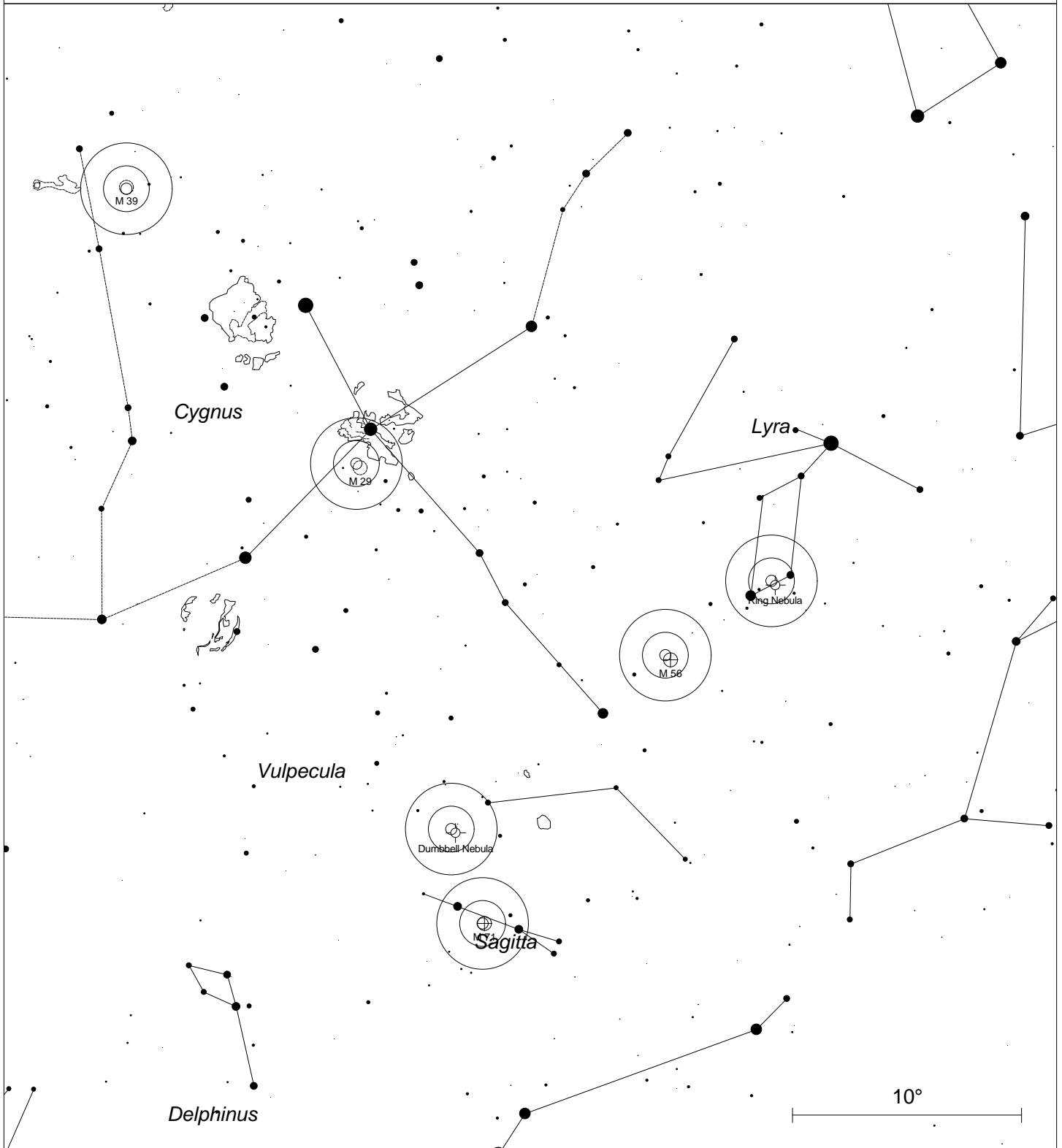
STARS

- | | |
|------|-------|
| ● <2 | ● 7 |
| ● 3 | ● 8 |
| ● 4 | ● 9 |
| ● 5 | ● 10 |
| ● 6 | ● >11 |

SYMBOLS

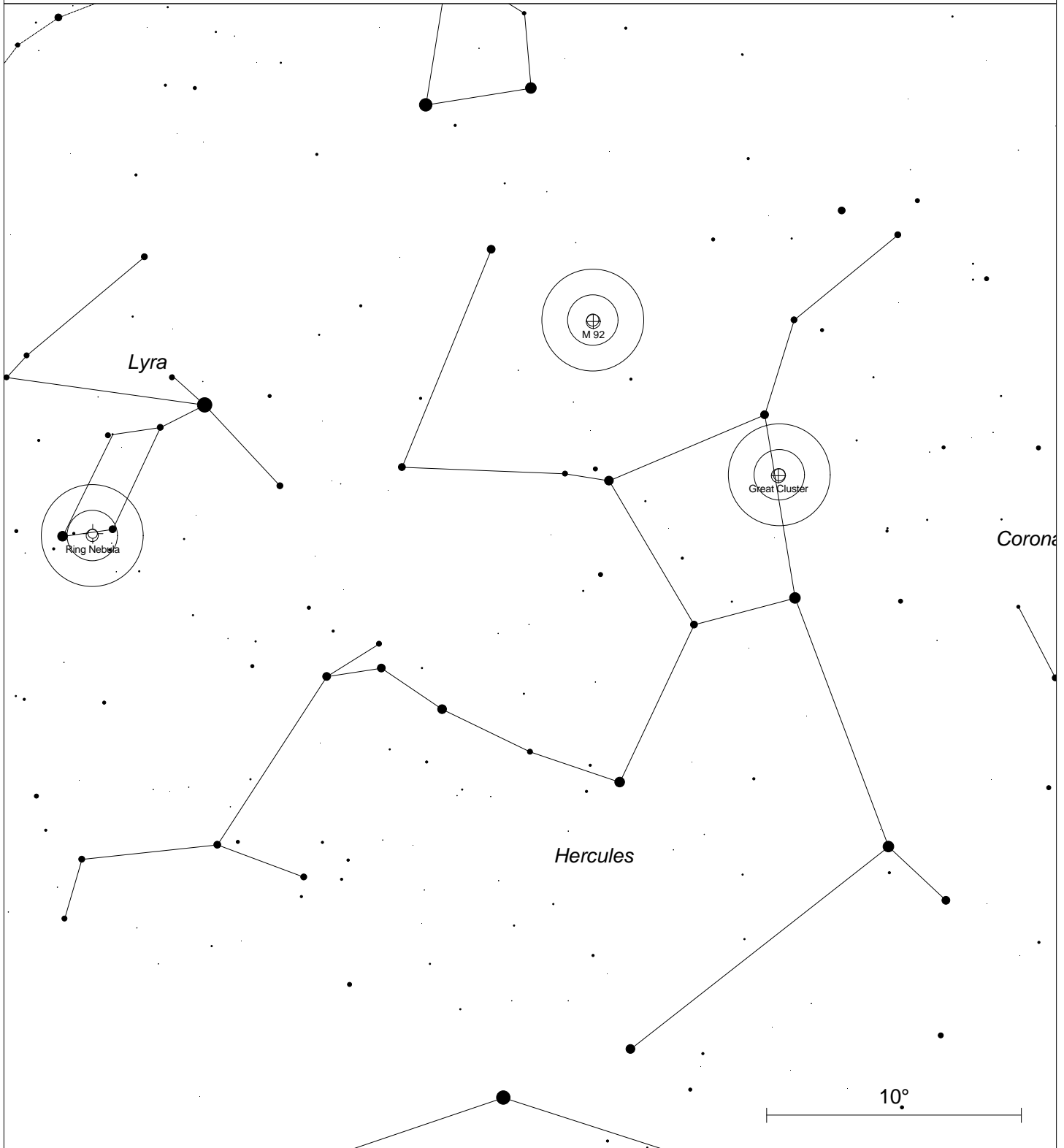
- | | |
|---------------|------------------|
| Comet | Globular Cluster |
| Asteroid | Planetary Nebula |
| Galaxy | Quasar |
| Open Cluster | Other Object |
| Bright Nebula | |

MAP8
LYRA, SAGITTA, VULPECULA, Cygnus
M27, M29, M38, M56, M57, M71



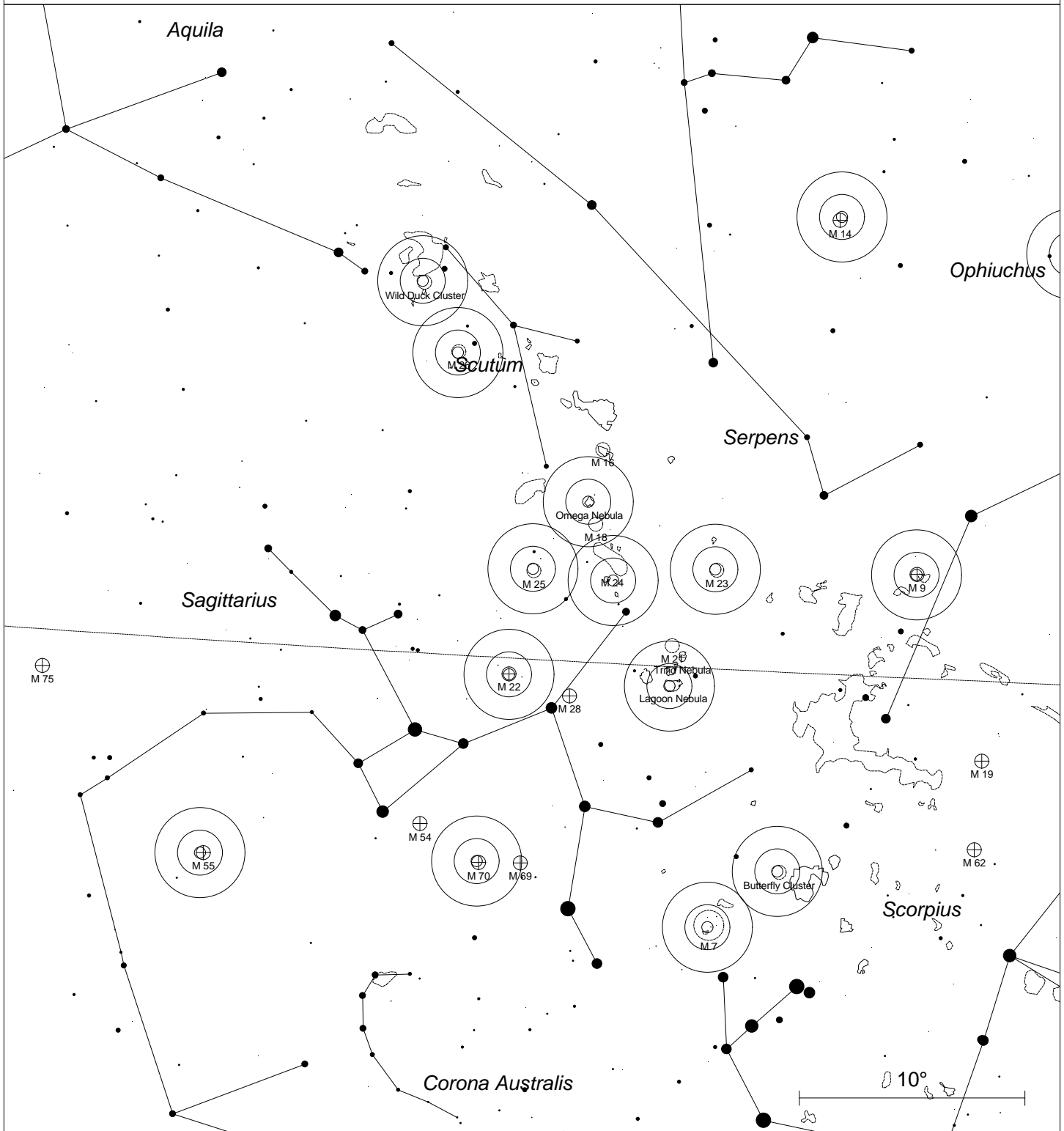
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|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ☾ Galaxy | ⊕ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP9
HERCULES, LYRA
M13, M57, M92



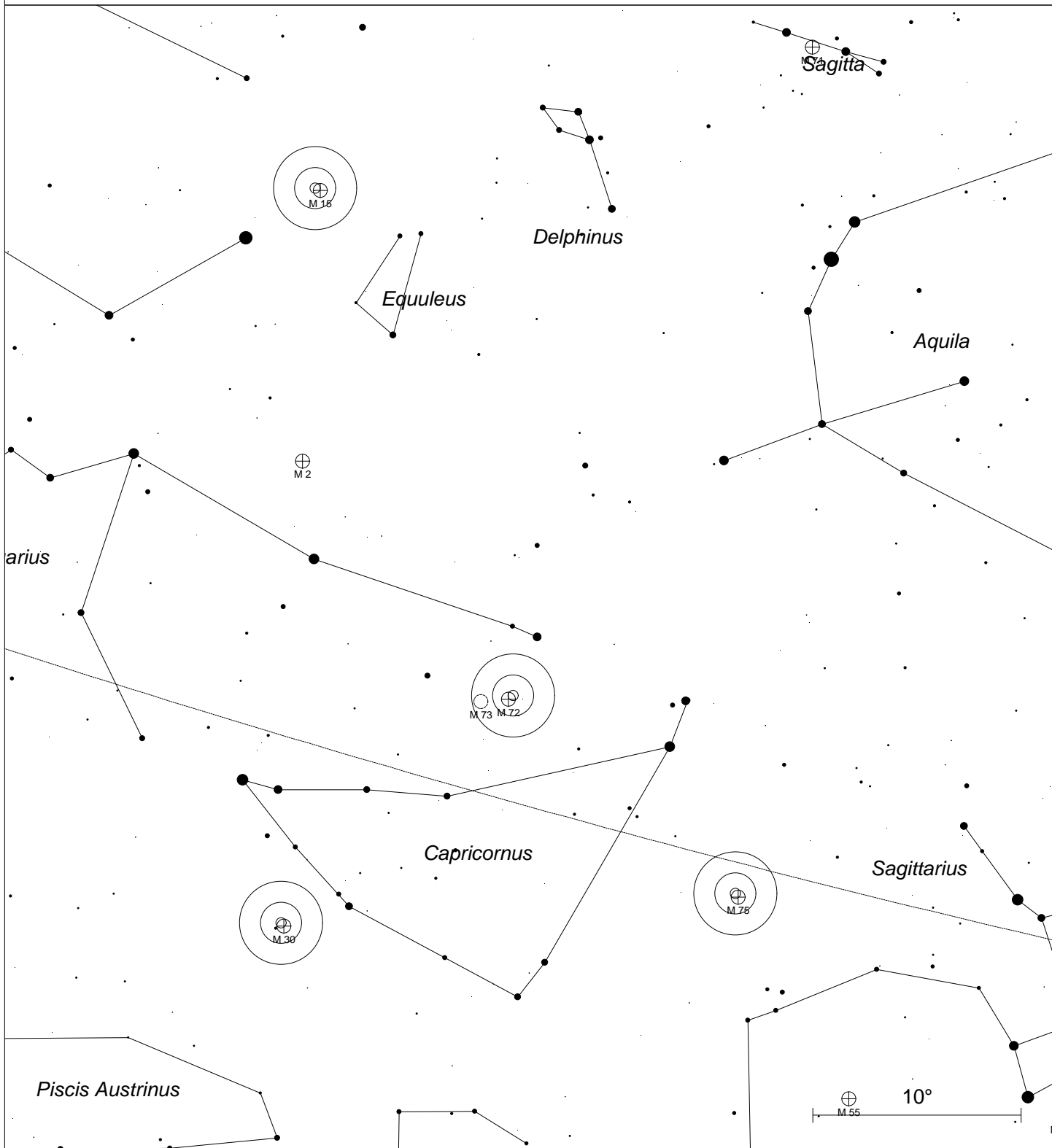
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|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ○ Galaxy | ⊗ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP 10
SAGITTARIUS, SCUTUM
M6, M7, M8, M9, M11, M14, M16, M17, M18, M20, M21
M22, M23, M24, M25, M26, M28, M54, M55, M69, M70



| STARS | | SYMBOLS | |
|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ☿ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ☾ Galaxy | ⊕ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP 11
 CAPRICORNUS, EQUULEUS
 M2, M15, M30, M72, M73, M75



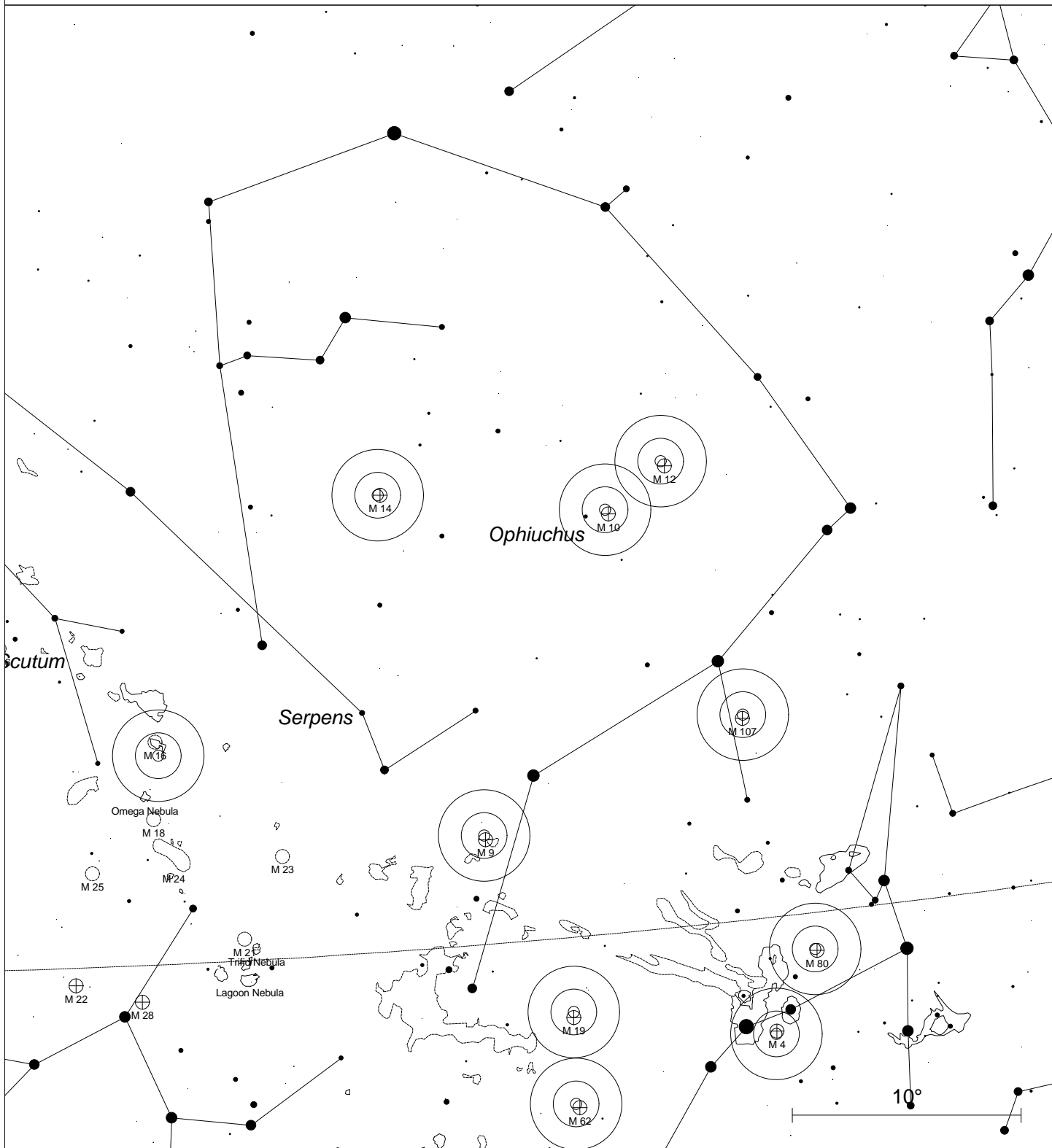
STARS

- <2 • 4.5
- 2.5 • 5
- 3 • 5.5
- 3.5 • >6
- 4

SYMBOLS

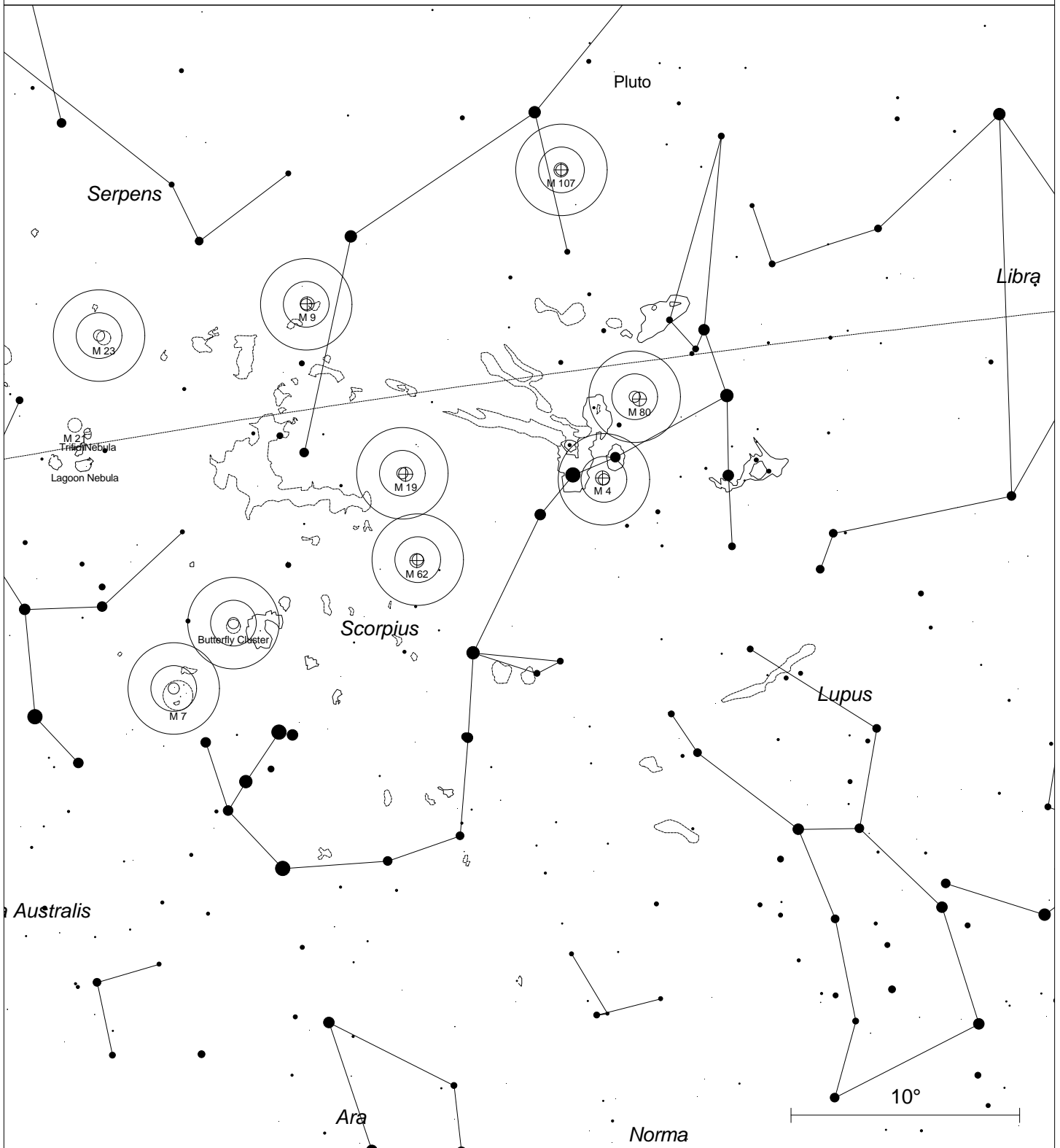
- ☄ Comet
- ♁ Asteroid
- Galaxy
- Open Cluster
- Bright Nebula
- ⊕ Globular Cluster
- ⊕ Planetary Nebula
- ⊗ Quasar
- Other Object

MAP 12
OPHIUCHUS
M9, M10, M12, M14, M80, M107



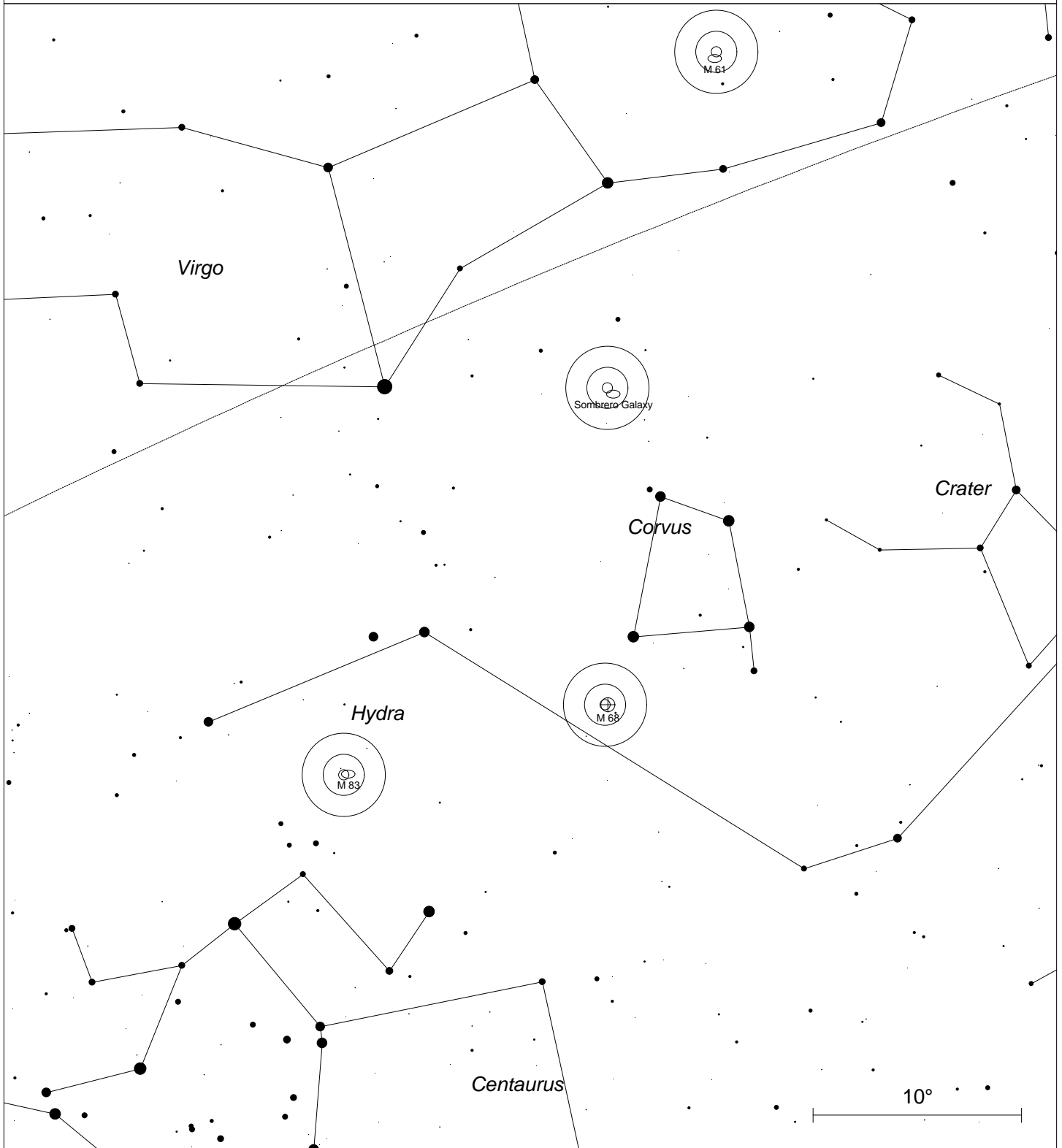
| STARS | | SYMBOLS | |
|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ☾ Galaxy | ⊕ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP 13
SCORPIUS
M4, M6, M7, M9, M19, M62, M80, M107



| STARS | | SYMBOLS | |
|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ○ Galaxy | ⊕ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |

MAP 14
CORVUS
M61, M68, M83, M104



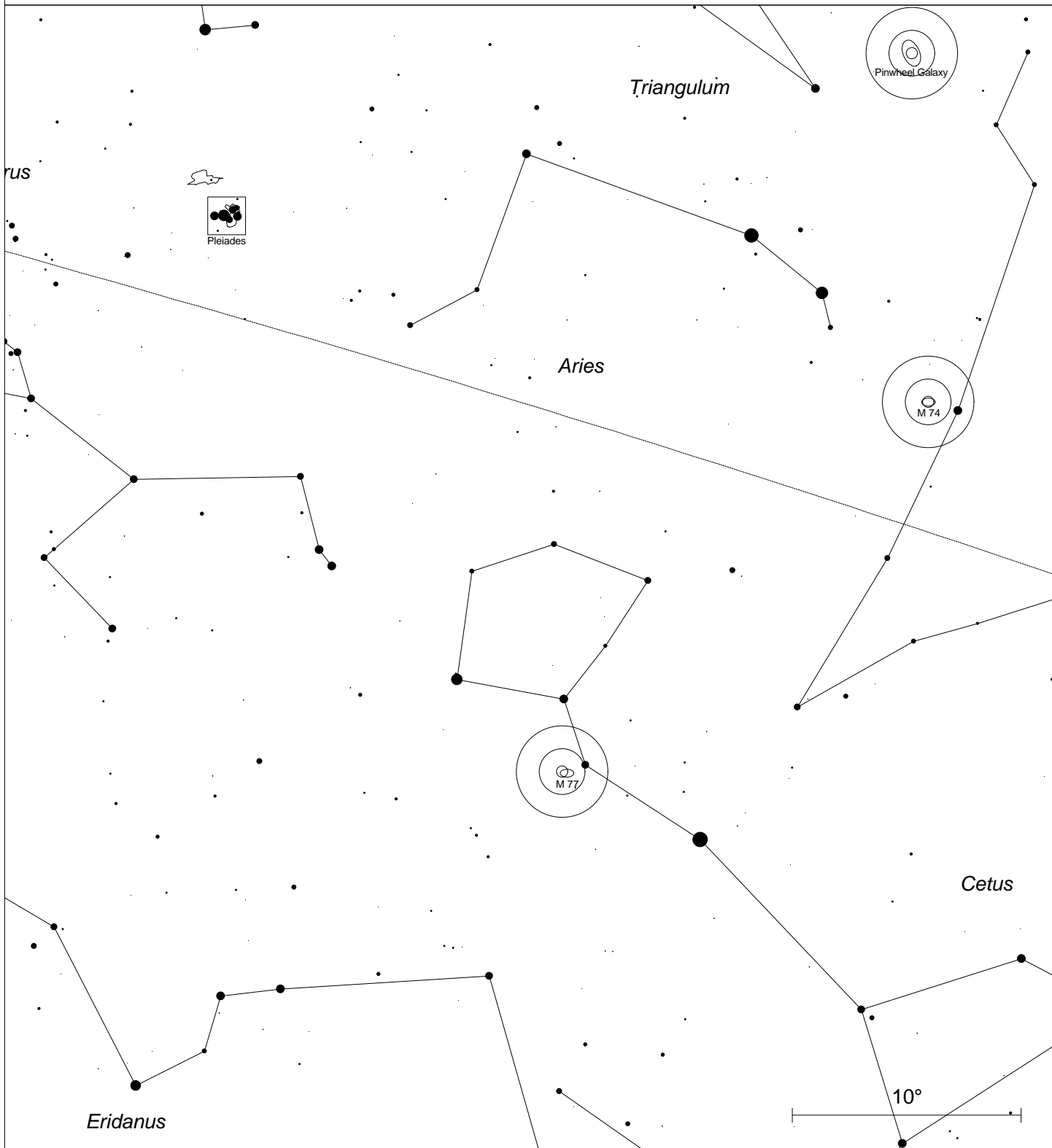
STARS

- <2 ● 4.5
- 2.5 ● 5
- 3 ● 5.5
- 3.5 ● >6
- 4

SYMBOLS

- ☄ Comet
- ☾ Asteroid
- Galaxy
- Open Cluster
- Bright Nebula
- ⊕ Globular Cluster
- ⊕ Planetary Nebula
- ⊗ Quasar
- Other Object

MAP 15
ARIES, Cetus
M45, M74, M77



| STARS | | SYMBOLS | |
|-------|-------|-----------------|--------------------|
| ● <2 | • 4.5 | ☄ Comet | ⊕ Globular Cluster |
| ● 2.5 | • 5 | ♁ Asteroid | ⊕ Planetary Nebula |
| ● 3 | • 5.5 | ○ Galaxy | ☉ Quasar |
| ● 3.5 | • >6 | ○ Open Cluster | ○ Other Object |
| ● 4 | | □ Bright Nebula | |