

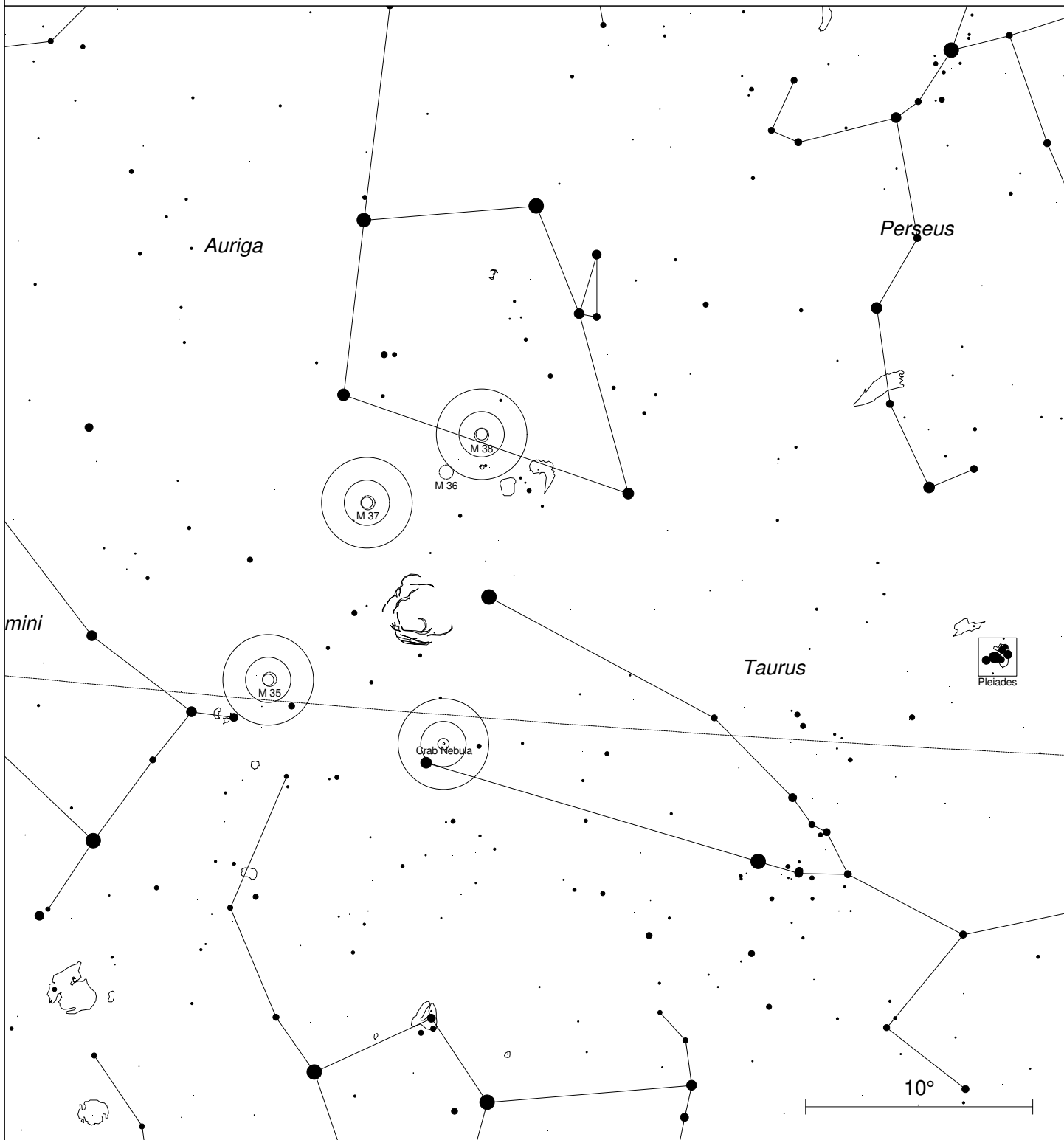
## Map and Constallation Key to Messier Objects for TELRAD Finders

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	Canies 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**



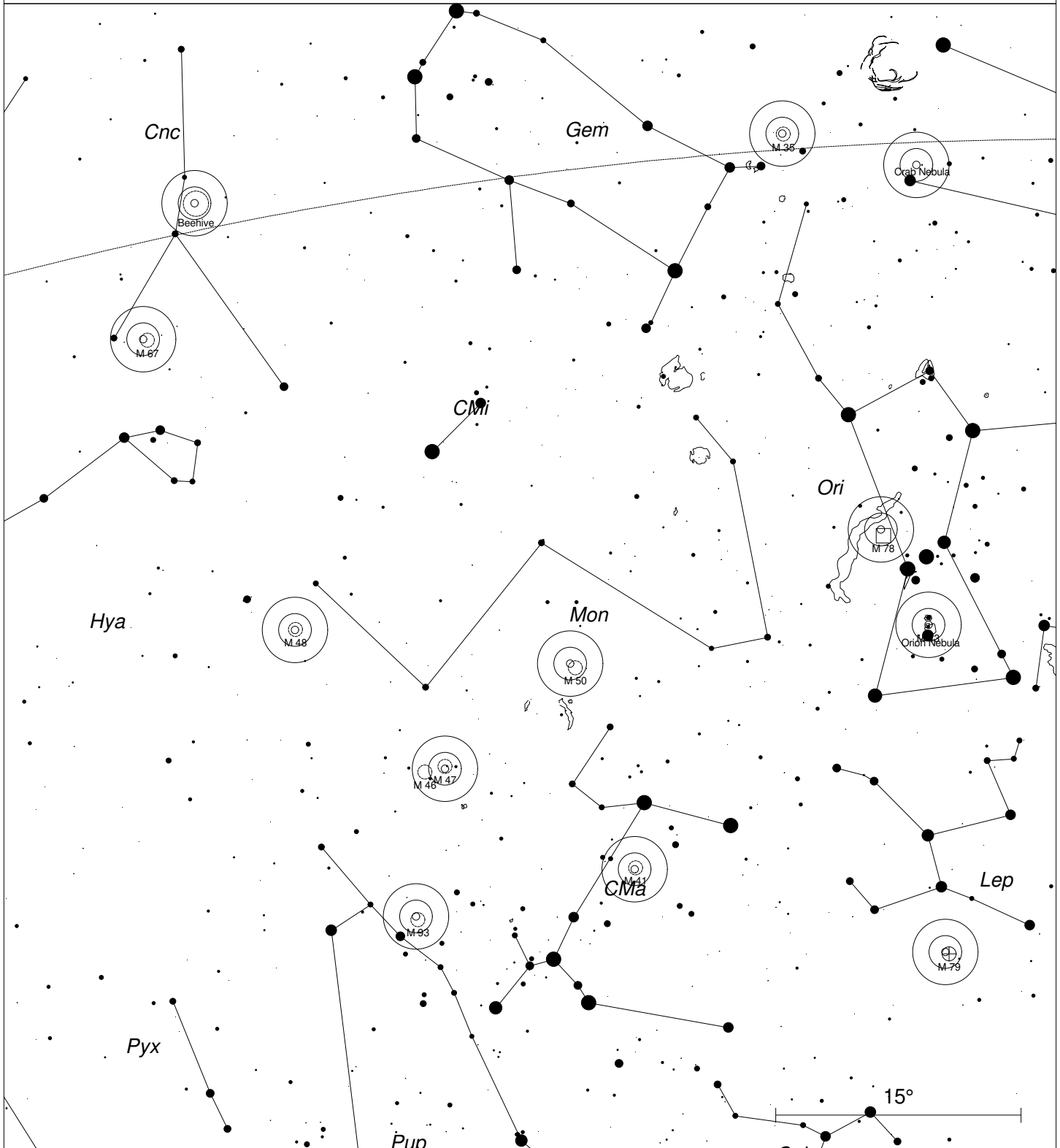
**STARS**

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

**SYMBOLS**

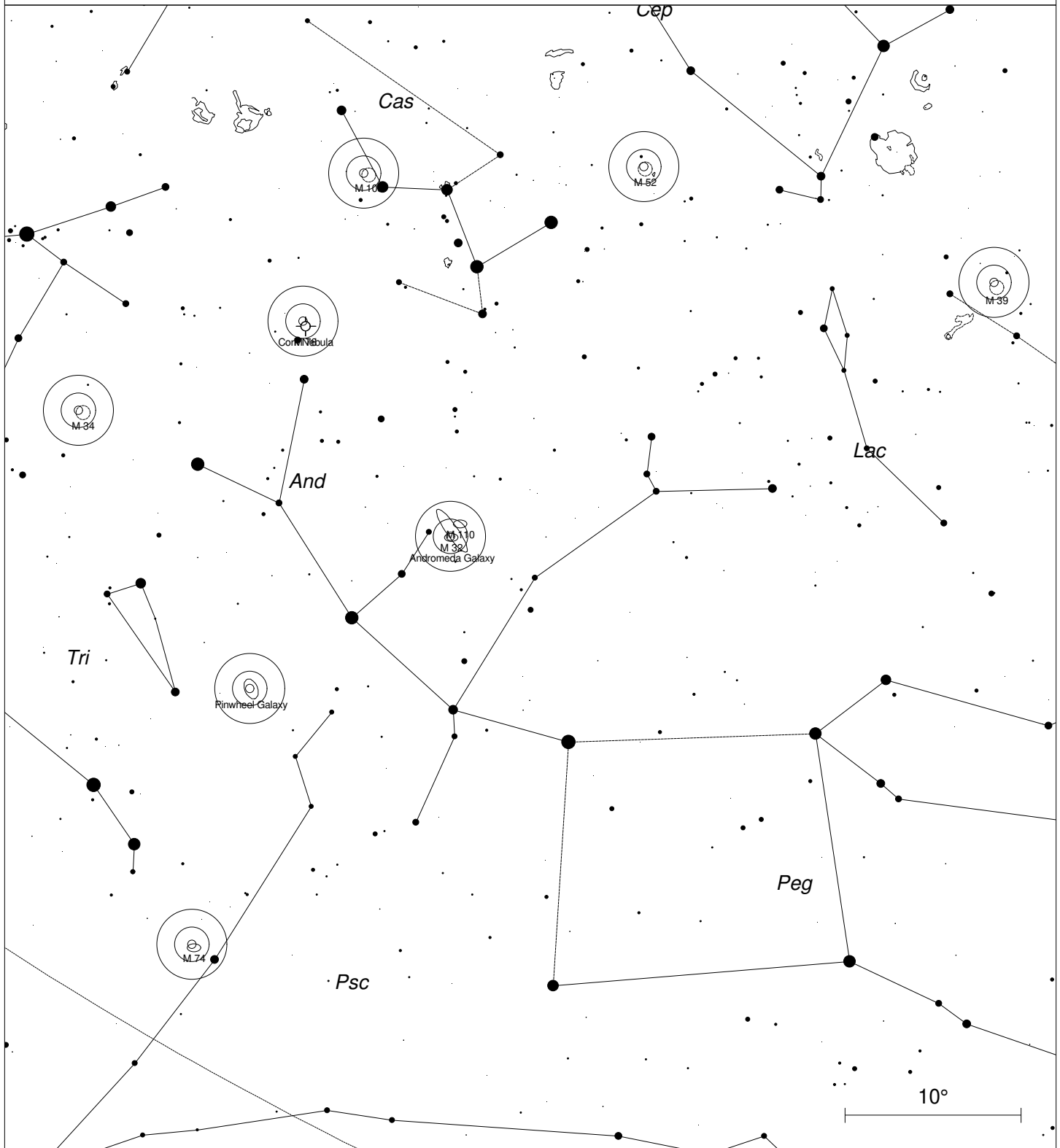
- ☄ Comet
- ♁ Asteroid
- ☾ Galaxy
- Open Cluster
- Bright Nebula
- ⊕ Globular Cluster
- ⊕ Planetary Nebula
- ⊕ Quasar
- Other Object

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



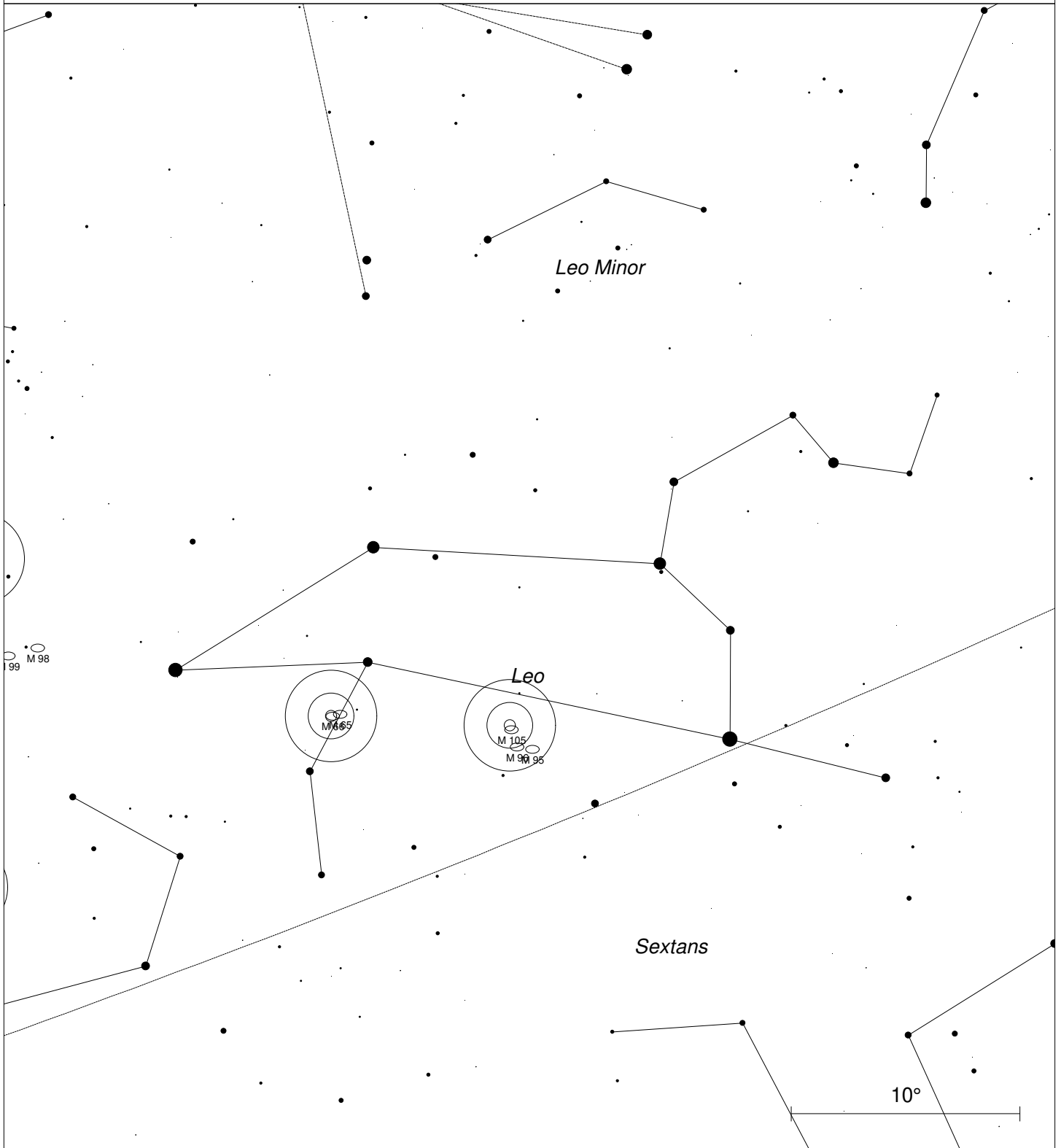
STARS		SYMBOLS	
● <2	• 4.5	☄ Comet	⊕ Globular Cluster
● 2.5	• 5	☿ Asteroid	⊕ Planetary Nebula
● 3	• 5.5	○ Galaxy	⊕ Quasar
● 3.5	• >6	○ Open Cluster	○ Other Object
● 4		□ Bright Nebula	

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



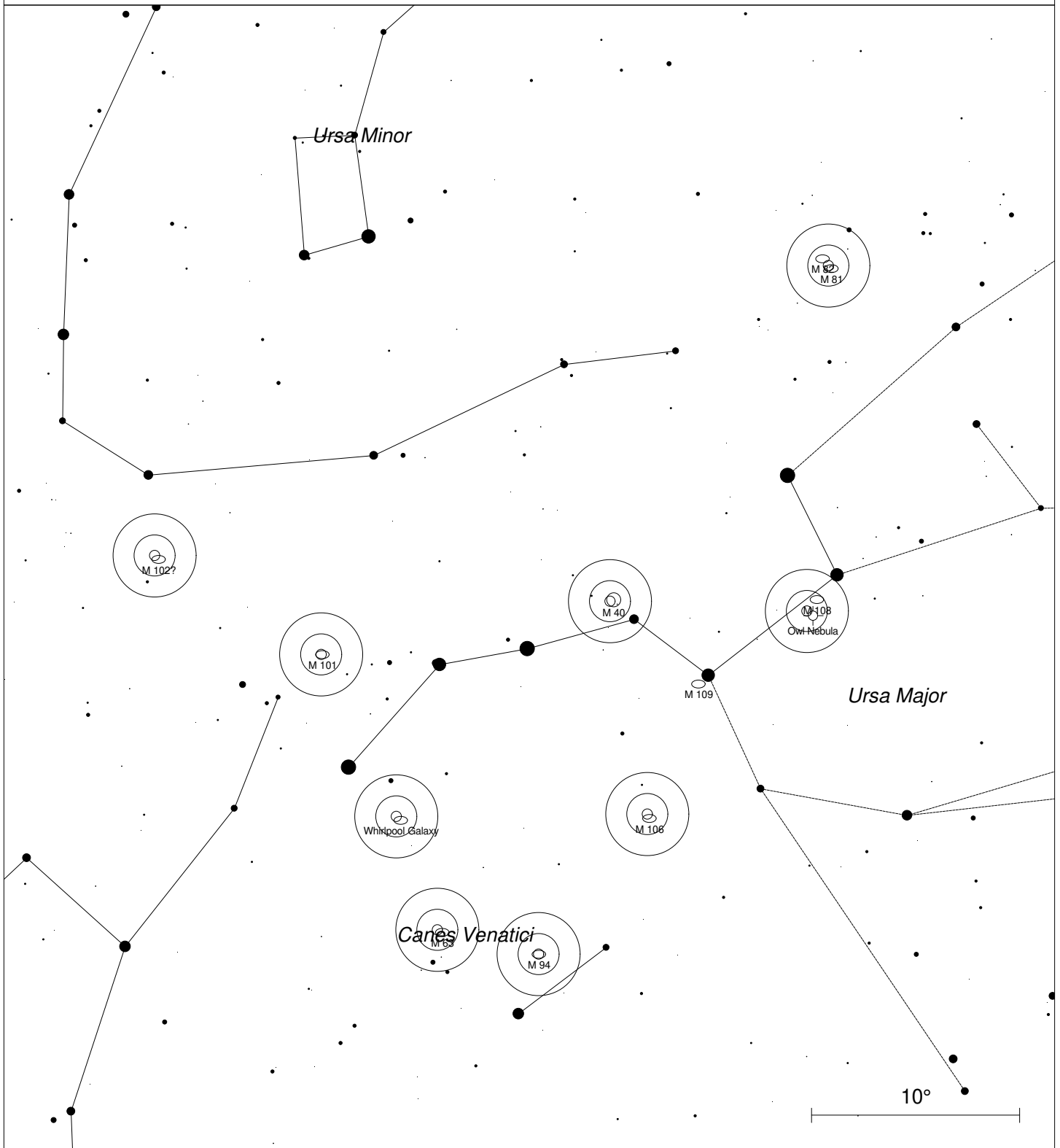
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● <2	• 4.5	☄ Comet	⊕ Globular Cluster
● 2.5	• 5	☿ Asteroid	⊕ Planetary Nebula
● 3	• 5.5	○ Galaxy	⊕ Quasar
● 3.5	• >6	○ Open Cluster	○ Other Object
● 4		□ Bright Nebula	

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



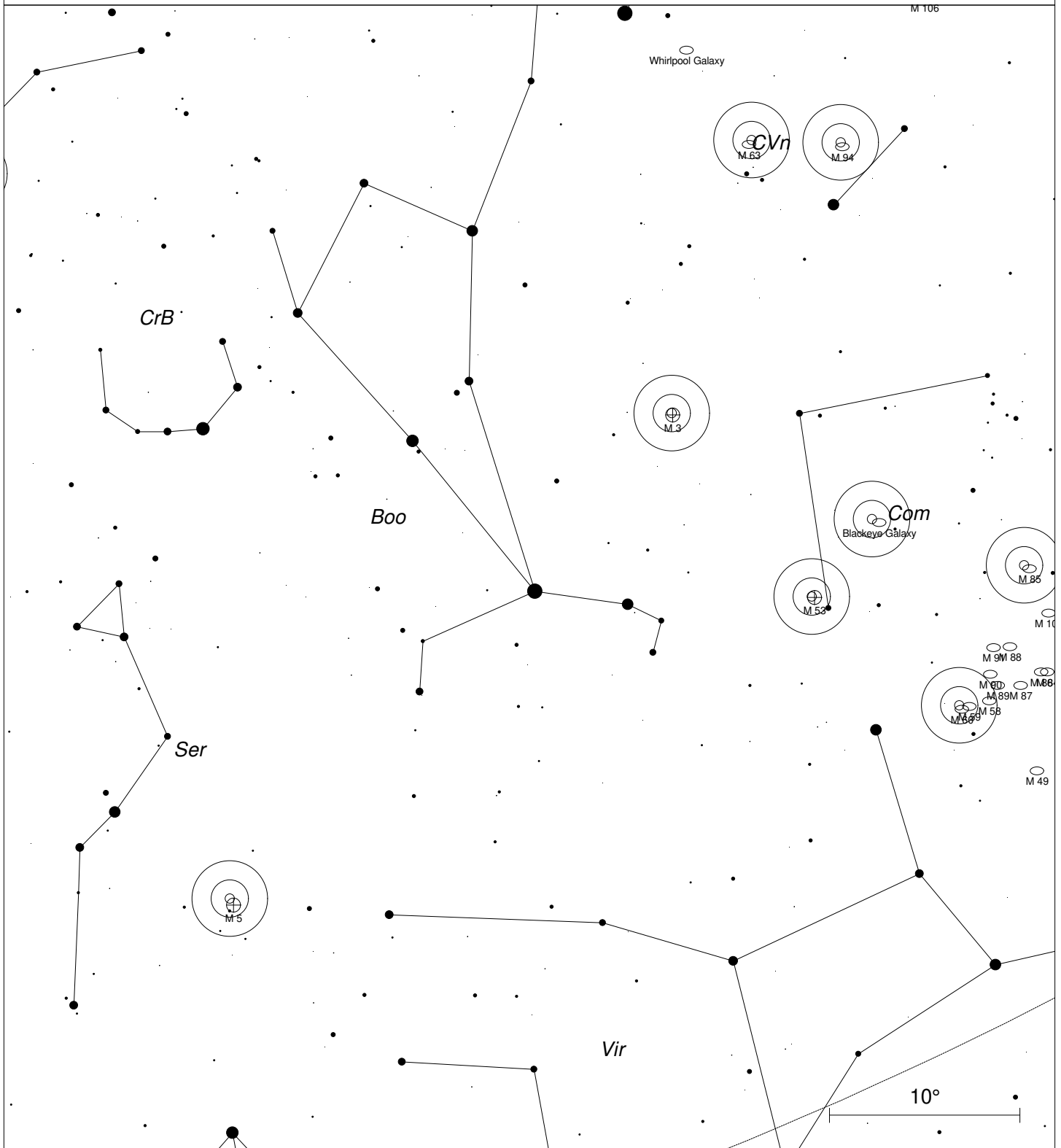
STARS		SYMBOLS	
● <2	• 4.5	☄ Comet	⊕ Globular Cluster
● 2.5	• 5	♁ Asteroid	⊕ Planetary Nebula
● 3	• 5.5	○ Galaxy	☉ Quasar
● 3.5	• >6	○ Open Cluster	○ Other Object
● 4		□ Bright Nebula	

**MAP 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	

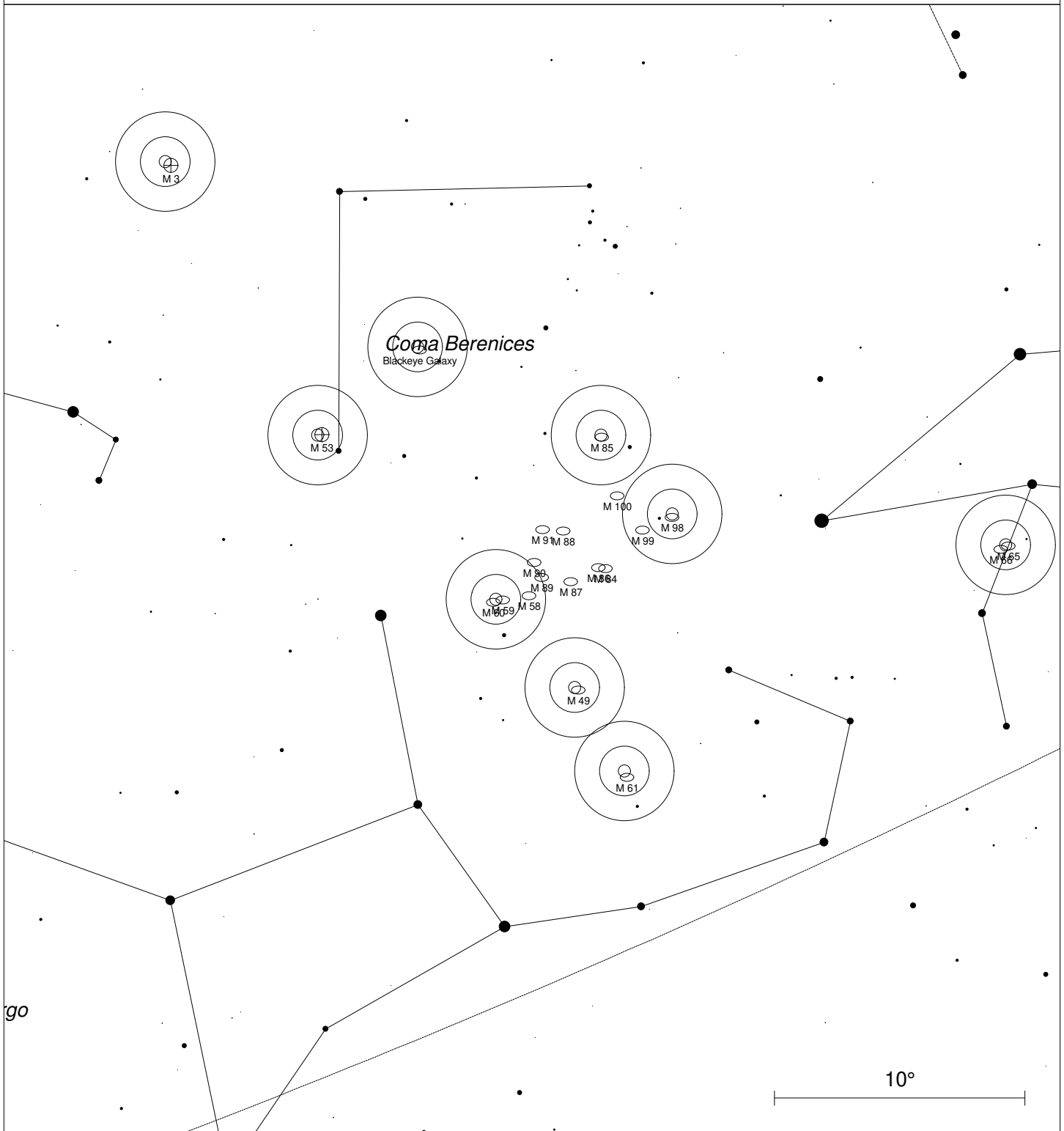
**MAP 6**  
**SERPENS, COMA BERNICES, CANES VENATICI, Bootes**  
**M3, M5, M53, M63, M64, M94**



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	

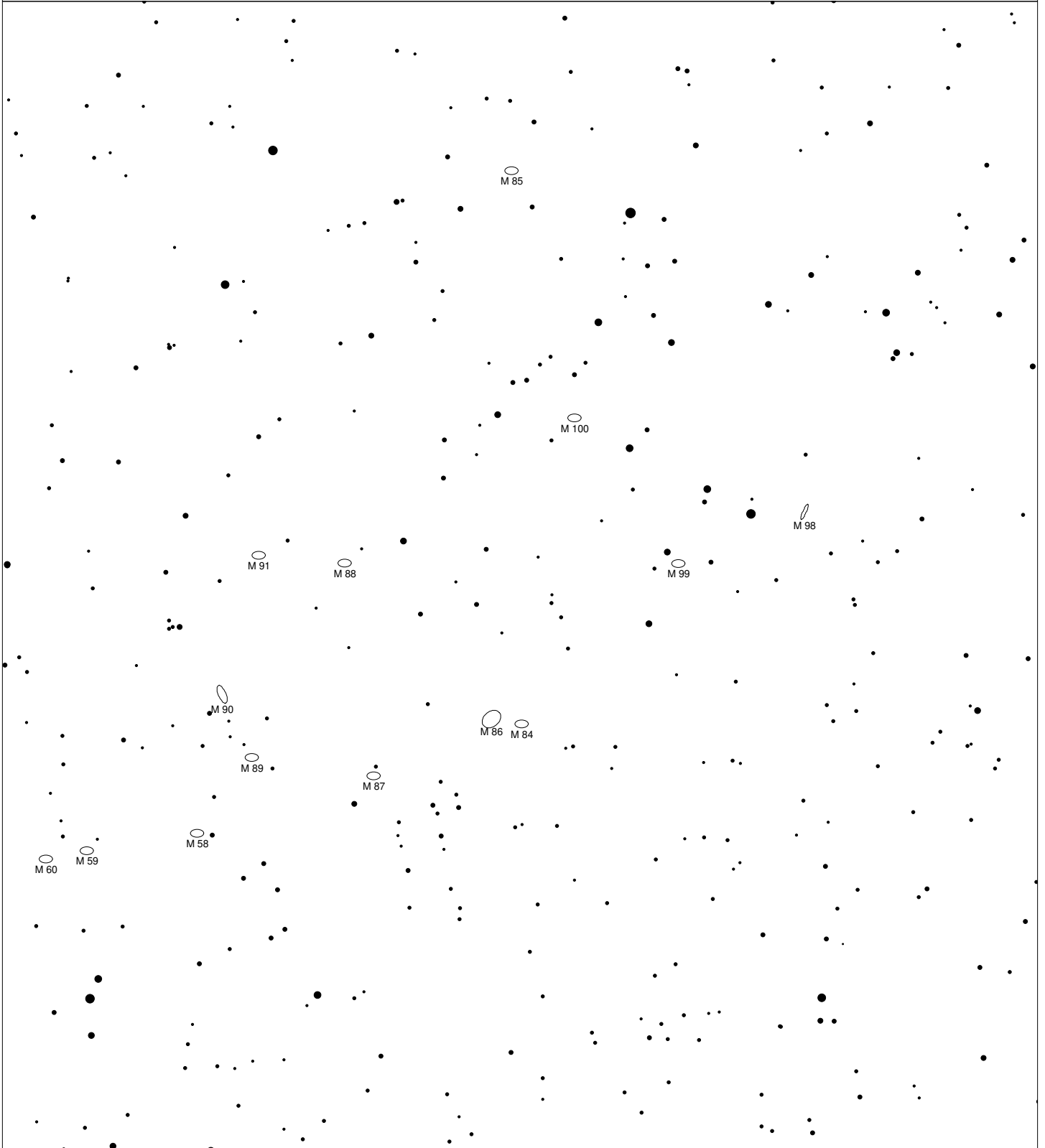


**MAP 7**  
**COMA BERENICES, Virgo, Leo (Virgo Cluster of Galaxies)**  
**M3, M49, M53, M58, M59, M60, M61, M64, M65, M66**  
**M84, M86, M87, M88, M90, M91, M98, M99, M100**



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



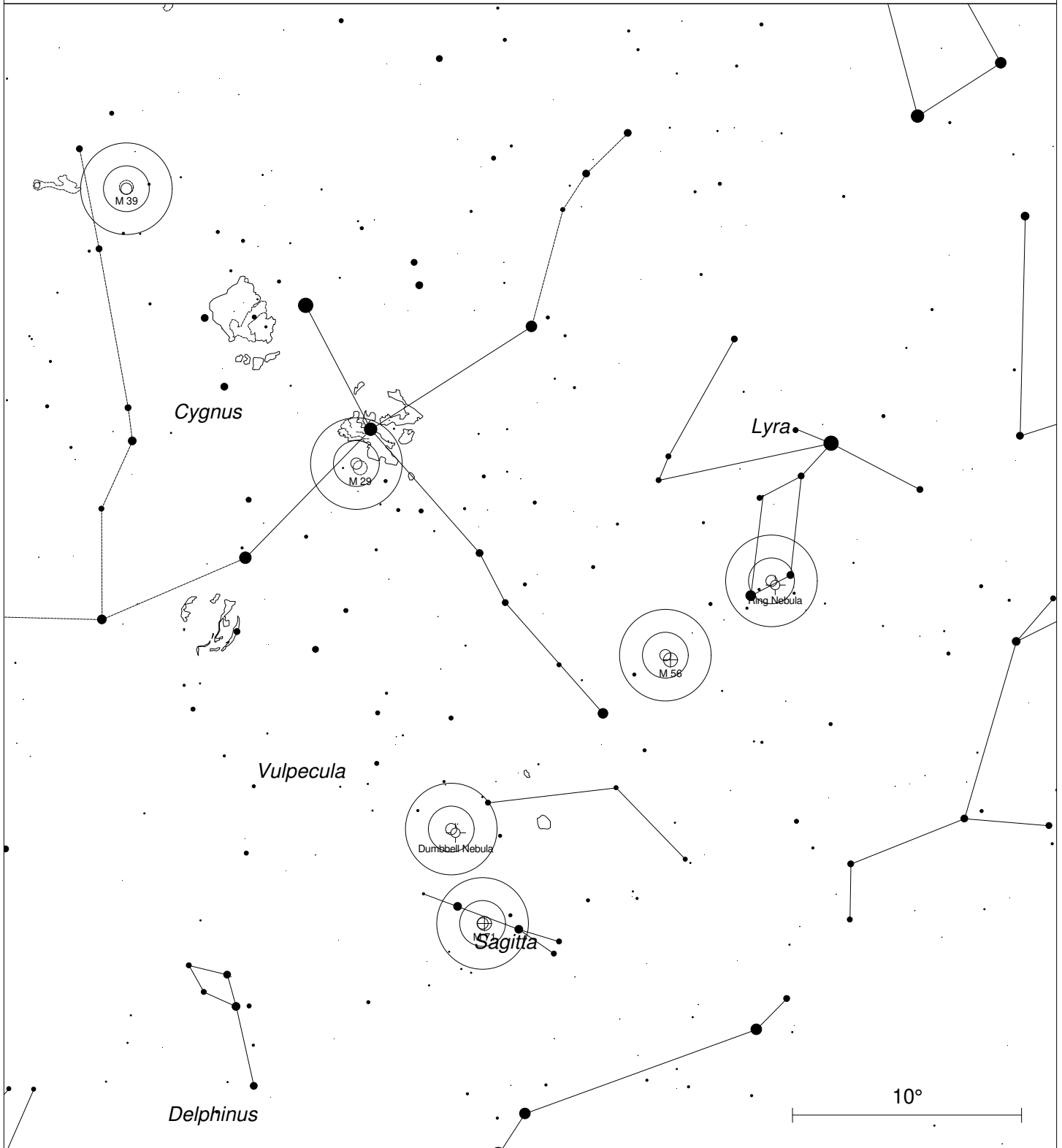
### STARS

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

### SYMBOLS

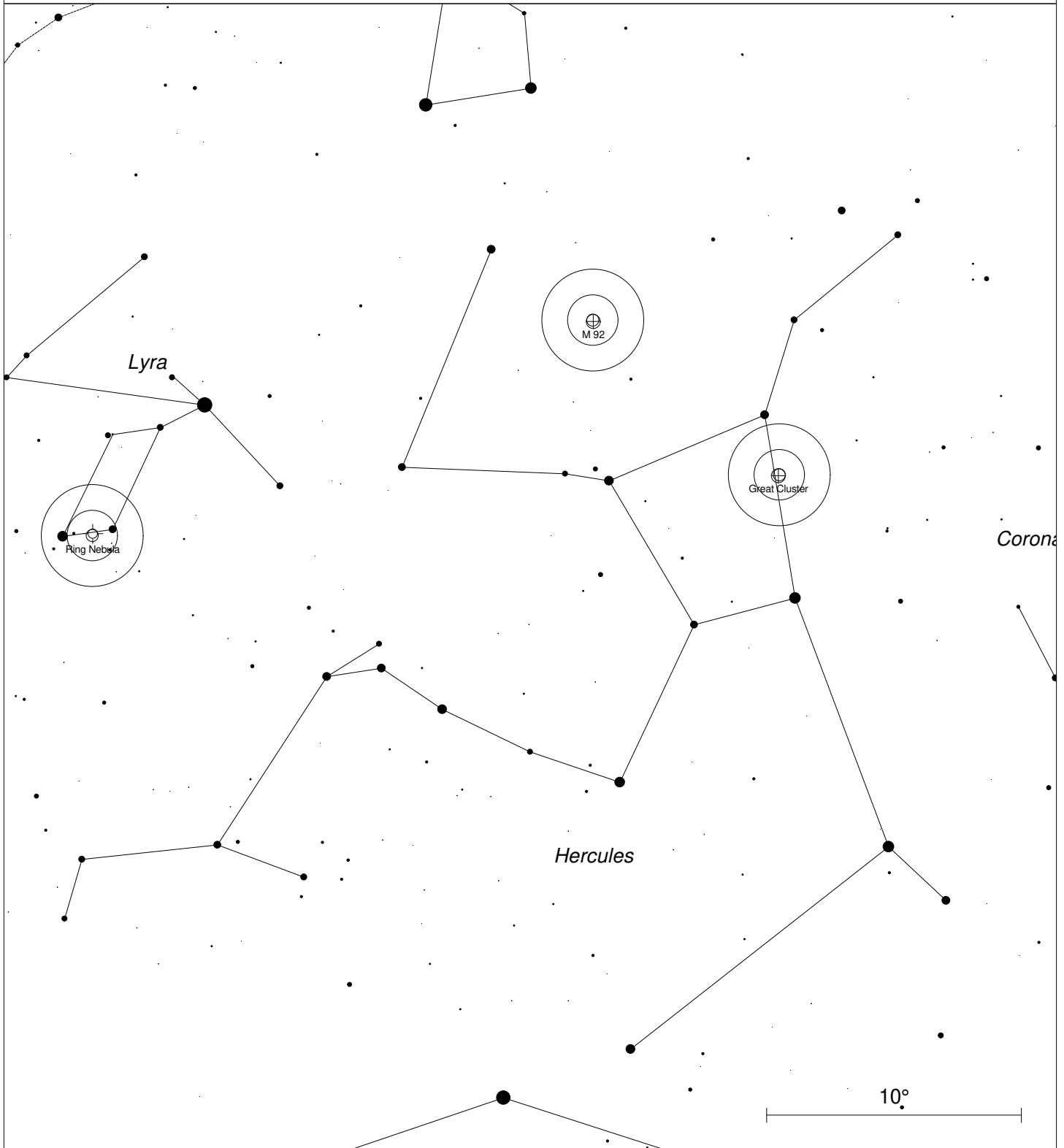
- |                 |                    |
|-----------------|--------------------|
| ☄ Comet         | ⊕ Globular Cluster |
| ♁ Asteroid      | ⊕ Planetary Nebula |
| ○ Galaxy        | ⊕ Quasar           |
| ○ Open Cluster  | ○ Other Object     |
| □ Bright Nebula |                    |

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



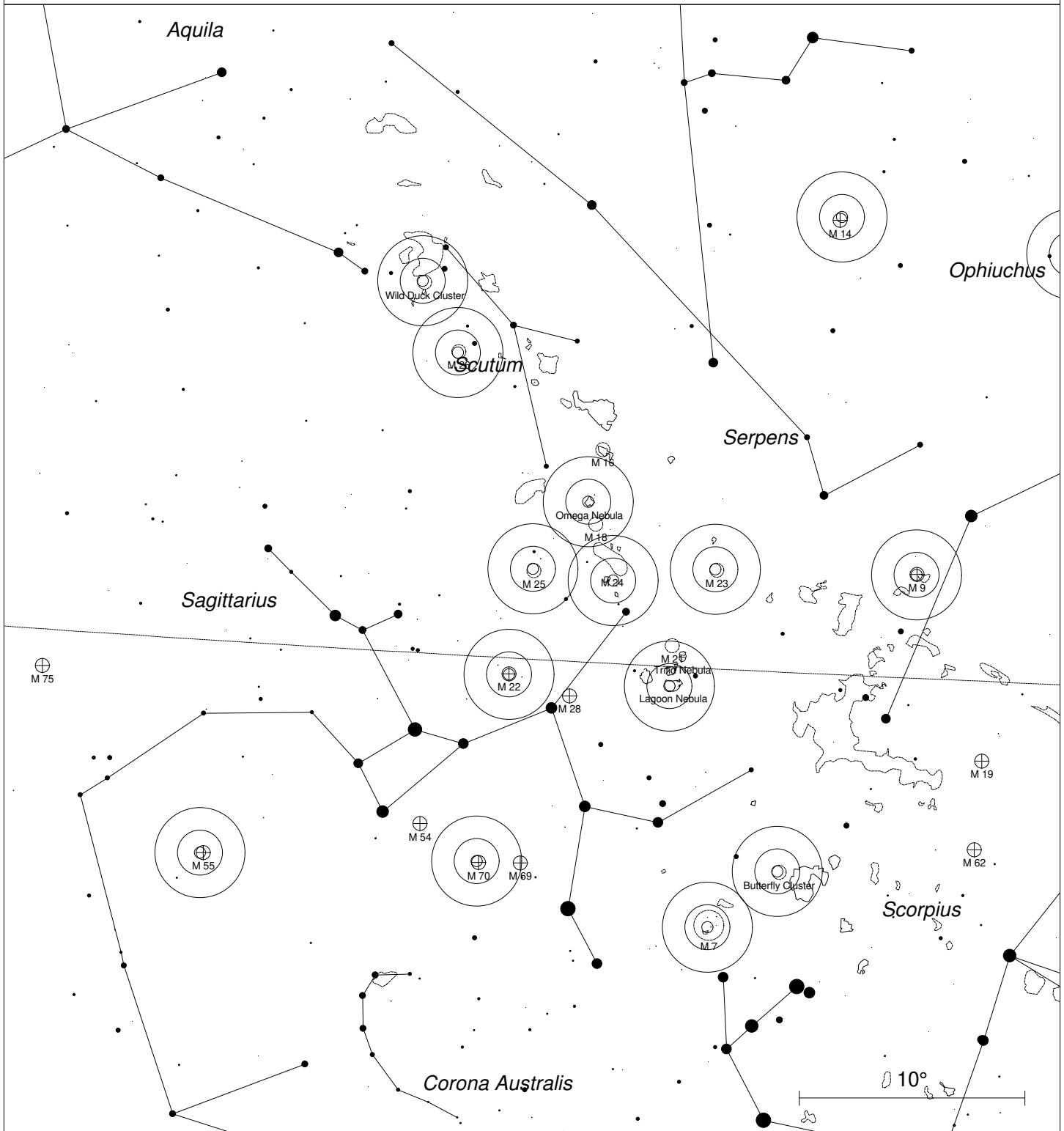
STARS		SYMBOLS	
● <2	• 4.5	☄ Comet	⊕ Globular Cluster
● 2.5	• 5	♁ Asteroid	⊕ Planetary Nebula
● 3	• 5.5	☾ Galaxy	⊕ Quasar
● 3.5	• >6	○ Open Cluster	○ Other Object
● 4		□ Bright Nebula	

**MAP9**  
**HERCULES, LYRA**  
**M13, M57, M92**



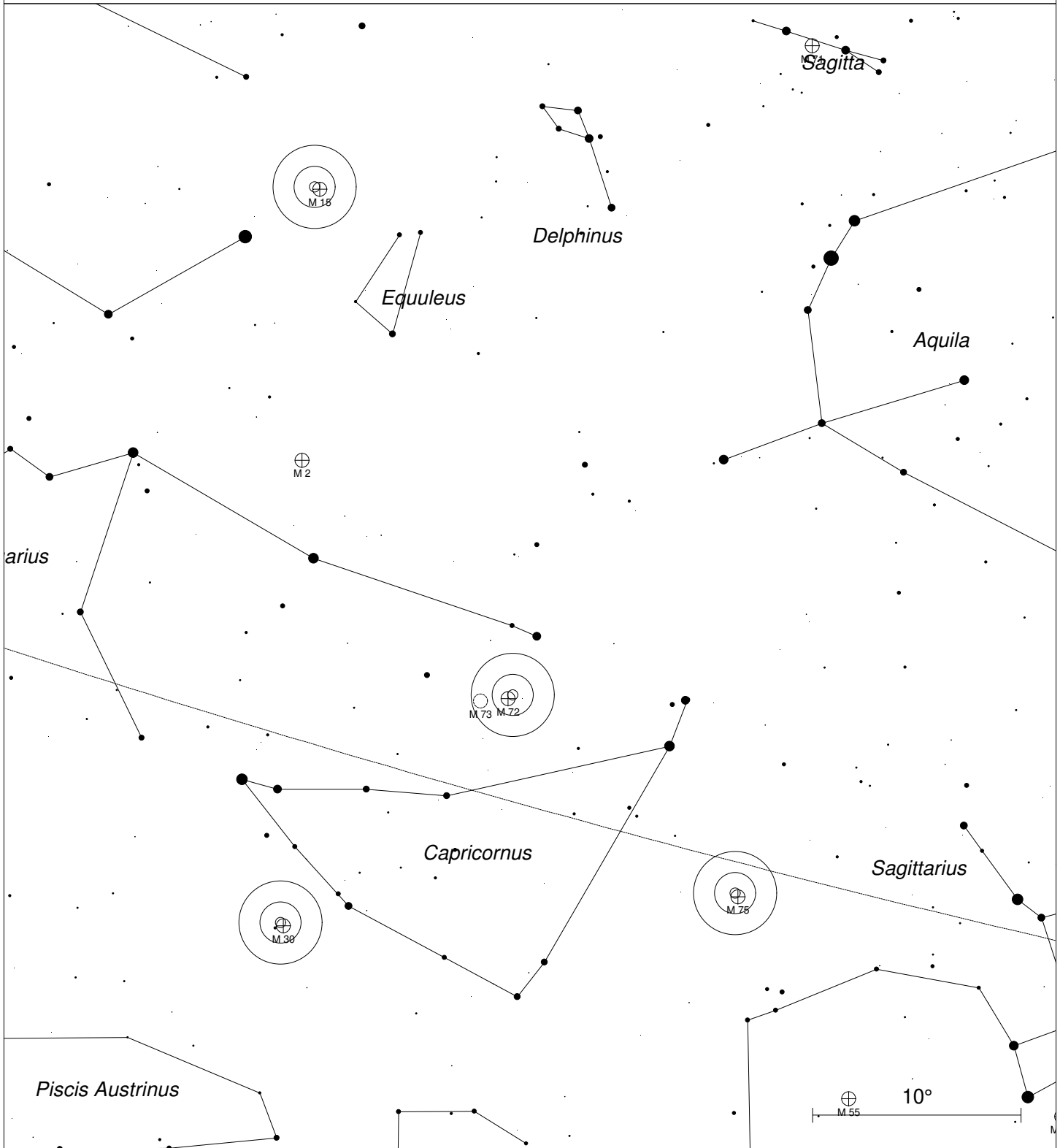
STARS	SYMBOLS	
● <2	☄ Comet	⊕ Globular Cluster
● 2.5	♁ Asteroid	⊕ Planetary Nebula
● 3	○ Galaxy	⊗ Quasar
● 3.5	○ Open Cluster	○ Other Object
● 4	□ Bright Nebula	

**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	☄ Comet	⊕ Globular Cluster
● 2.5	♁ Asteroid	⊕ Planetary Nebula
● 3	☾ Galaxy	⊕ Quasar
● 3.5	○ Open Cluster	○ Other Object
● 4	□ Bright Nebula	

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



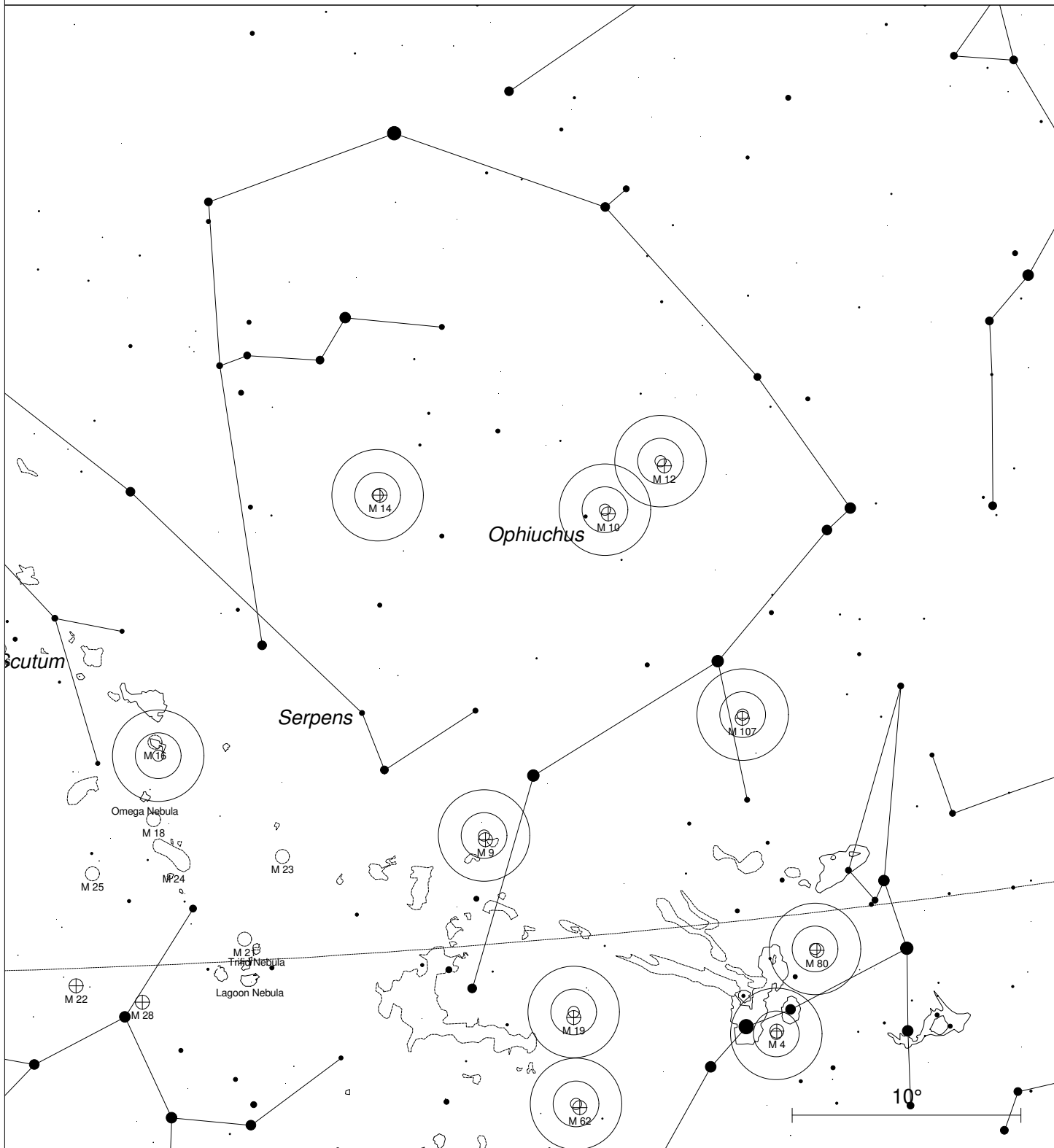
STARS

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

SYMBOLS

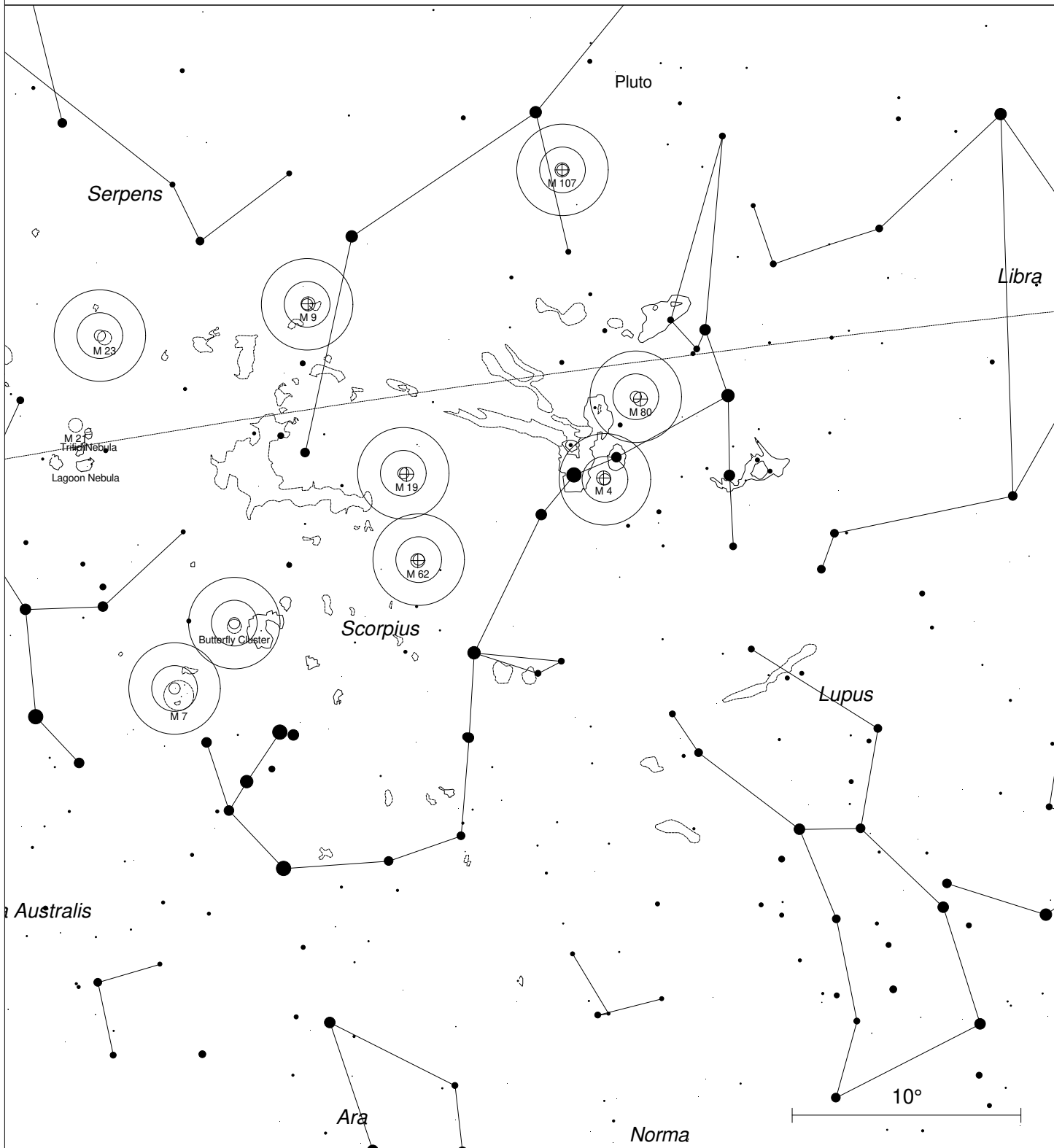
- ☄ Comet
- ♁ Asteroid
- Galaxy
- Open Cluster
- Bright Nebula
- ⊕ Globular Cluster
- ⊕ Planetary Nebula
- ⊗ Quasar
- Other Object

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



STARS	SYMBOLS	
● <2	☄ Comet	⊕ Globular Cluster
● 2.5	♁ Asteroid	⊕ Planetary Nebula
● 3	☾ Galaxy	⊕ Quasar
● 3.5	○ Open Cluster	○ Other Object
● 4	□ Bright Nebula	

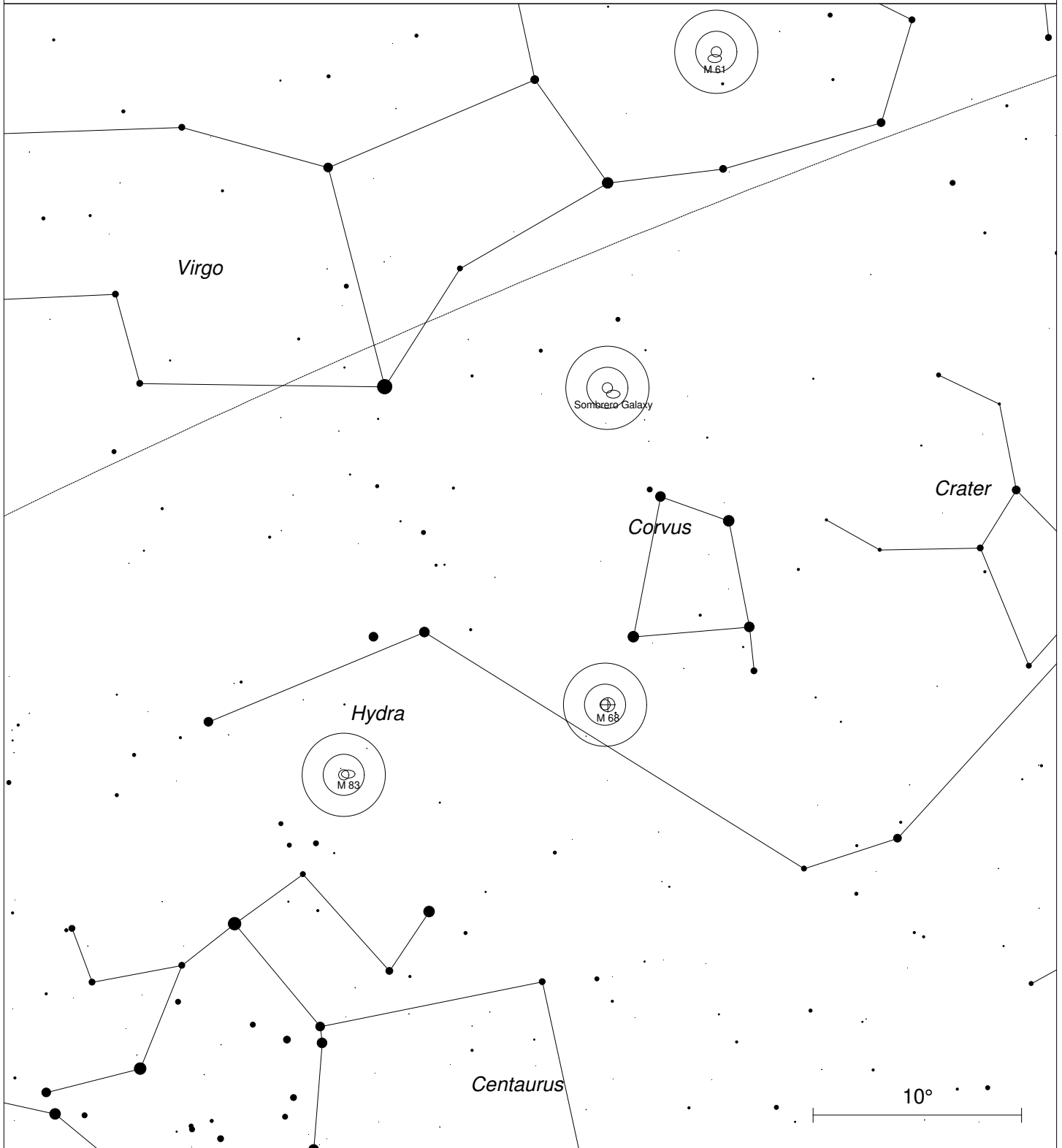
**MAP 13**  
**SCORPIUS**  
*M4, M6, M7, M9, M19, M62, M80, M107*



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	

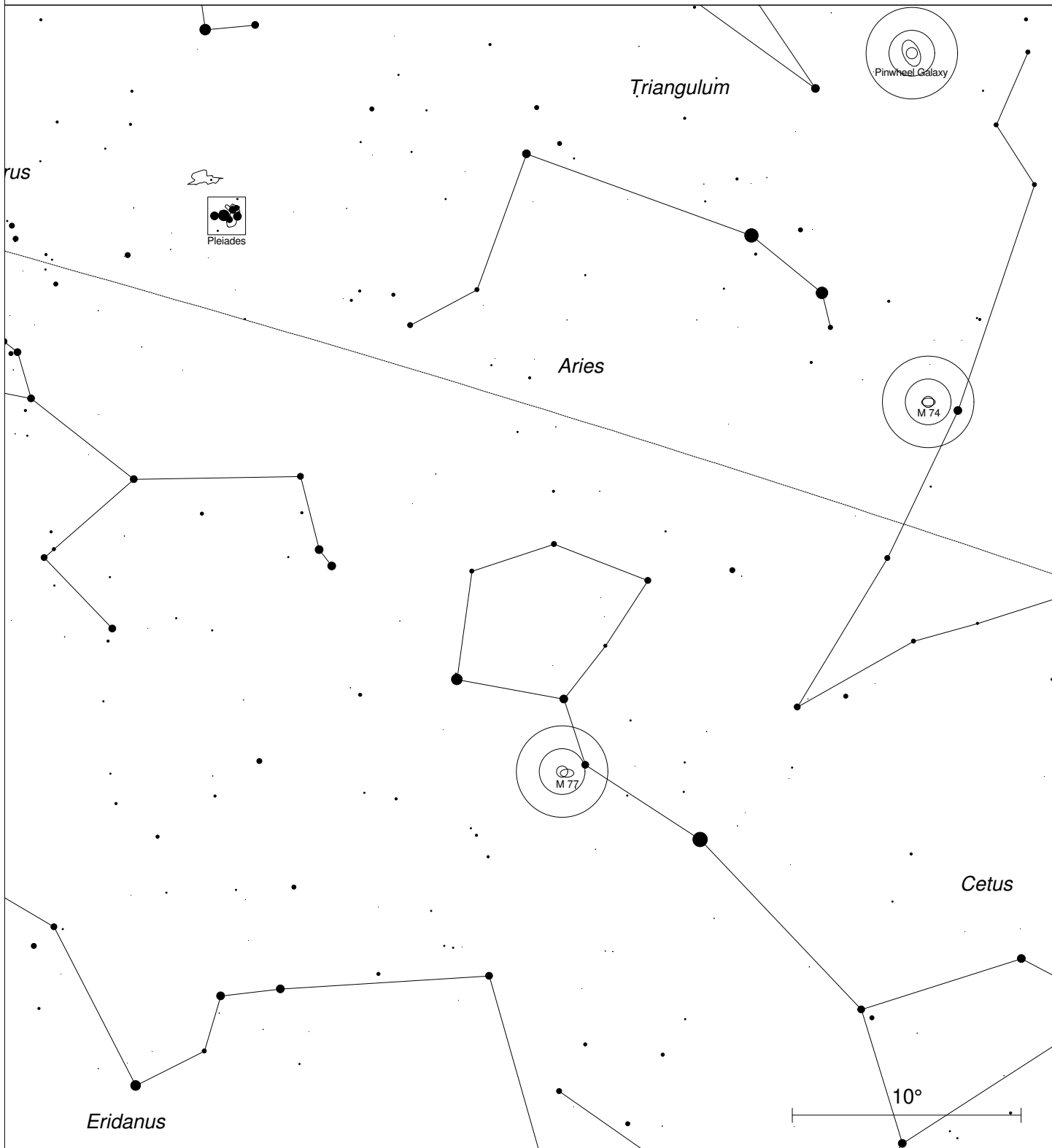


**MAP 14**  
**CORVUS**  
**M61, M68, M83, M104**



STARS		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 15**  
**ARIES, Cetus**  
**M45, M74, M77**



**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