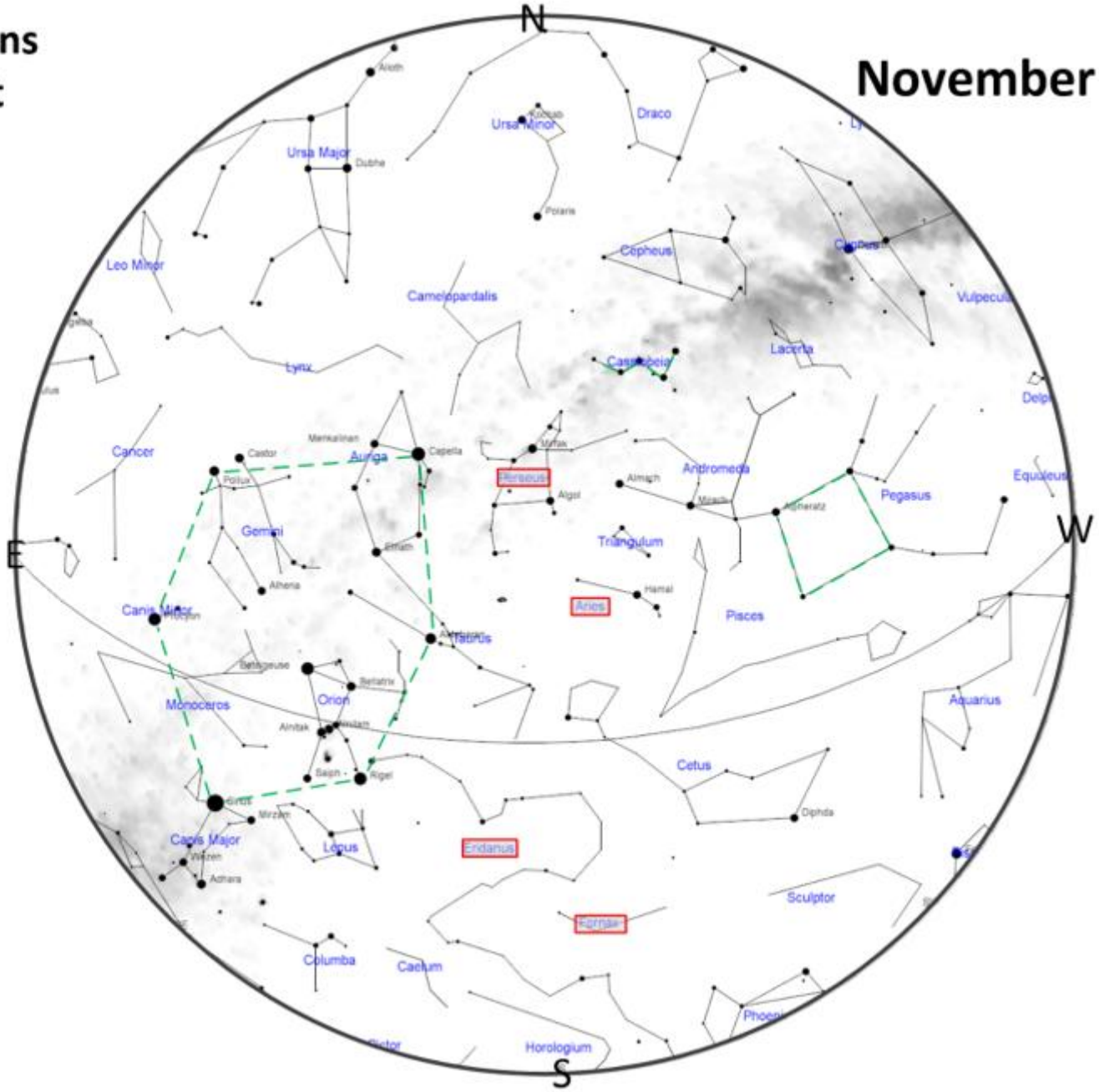
Lab 3 Deep Sky Targets
2025-11

Constellations of Interest

Evening
- Andromeda (And)
- Pisces (Psc)
- Phoenix (Phe)
- Cassiopeia (Cas)
- Cetus (Cet)
- Triangulum (Tri)

Prime Time
- Fornax (For)
- Aries (Ari)
- Perseus (Per)
- Eridanus (Eri)

Morning
- Taurus (Tau)
- Caelum (Cae)
- Lepus (Lep)
- Columba (Col)
- Orion (Ori)
- Camelopardalis (Cam)
- Auriga (Aur)



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Targets for this evening

Item	Target	Difficulty	Constellation	Type	Comments
01	**M-15**	3-Medium	Pegasus (Peg)	Globular Cluster	**M=6.3 | Size=18' | SB= 21.6 |** Dim Fuzz ball
02	**NGC-288**	5-Hard	Sculptor (Scl)	Globular Cluster	**|M=8.1 | Size=13.8' | SB=22.4 |** Dim Globular
03	**Silver Coin Galaxy (NGC-253)**	5-Hard	Sculptor (Scl)	Galaxy	**|M=7.1 | Size=25' | SB=22.7 |** Slither of a galaxy
04	**Andromeda Galaxy (M-31)**	2-Easy	Andromeda (And)	Galaxy	**|M=4.3 | Size=189'x62' | SB=23.1 |** Best galaxy to view in the sky
05	**Owl Cluster (NGC-457)**	3-Medium	Cassiopeia (Cas)	Open Cluster	**|M=6.4 | Size=13' | SB=20.6 |** Owl with open wings
06	**Pleiades (M-45)**	1-Easy	Taurus (Tau)	Open Cluster	**|M=1.6 | Size=120' | SB=20.6 |** Very large and bright
07	**Crab Nebula (M-1)**	3-Medium	Taurus (Tau)		**|M=8.4 | Size=7'x4' | SB=20.7 |**

Assignment

1. Determine your Field of View for your telescope and eyepieces using Field of View Calculator (Visual Mode).
2. Pick one source and select a constellation to examine in more details. Well Placed Constellations Include:
   - Star Hopper's Guide to the Universe
   - Yoder's Constellation Guides
   - New Catalog of Stellar Richfields for Binoculars – Large fields, Binoculars only

Constellations Well Placed

Andromeda (And)	Pisces (Psc)	**Cassiopeia** (Cas)	Cetus (Cet)
Triangulum (Tri)	Fornax (For)	Aries (Ari)	**Perseus** (Per)
Eridanus (Eri)			

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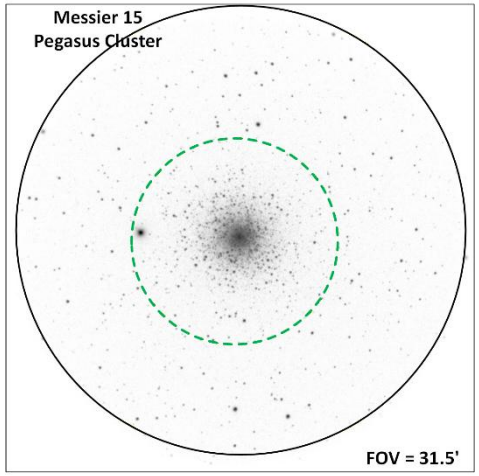
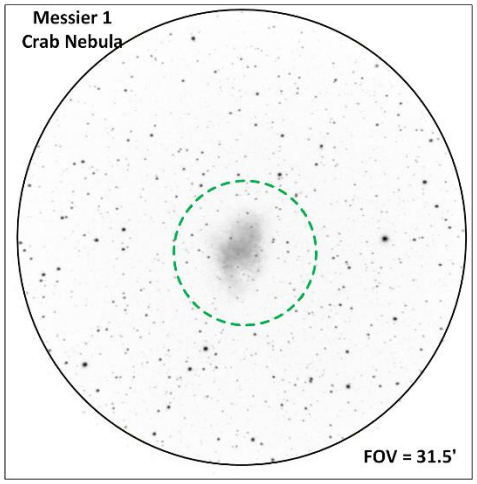
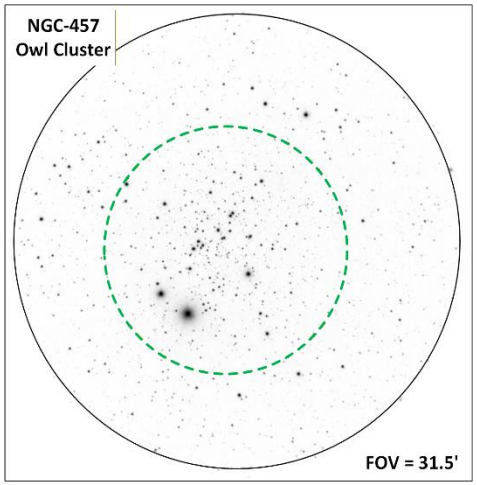
Some Images







References

- Stellarium Web
- Star Hopper's Guide to the Universe
- New Catalog of Stellar Richfields for Binoculars
- Yoder's Constellation Guides
- Astronomy Tools: Field of View Calculator

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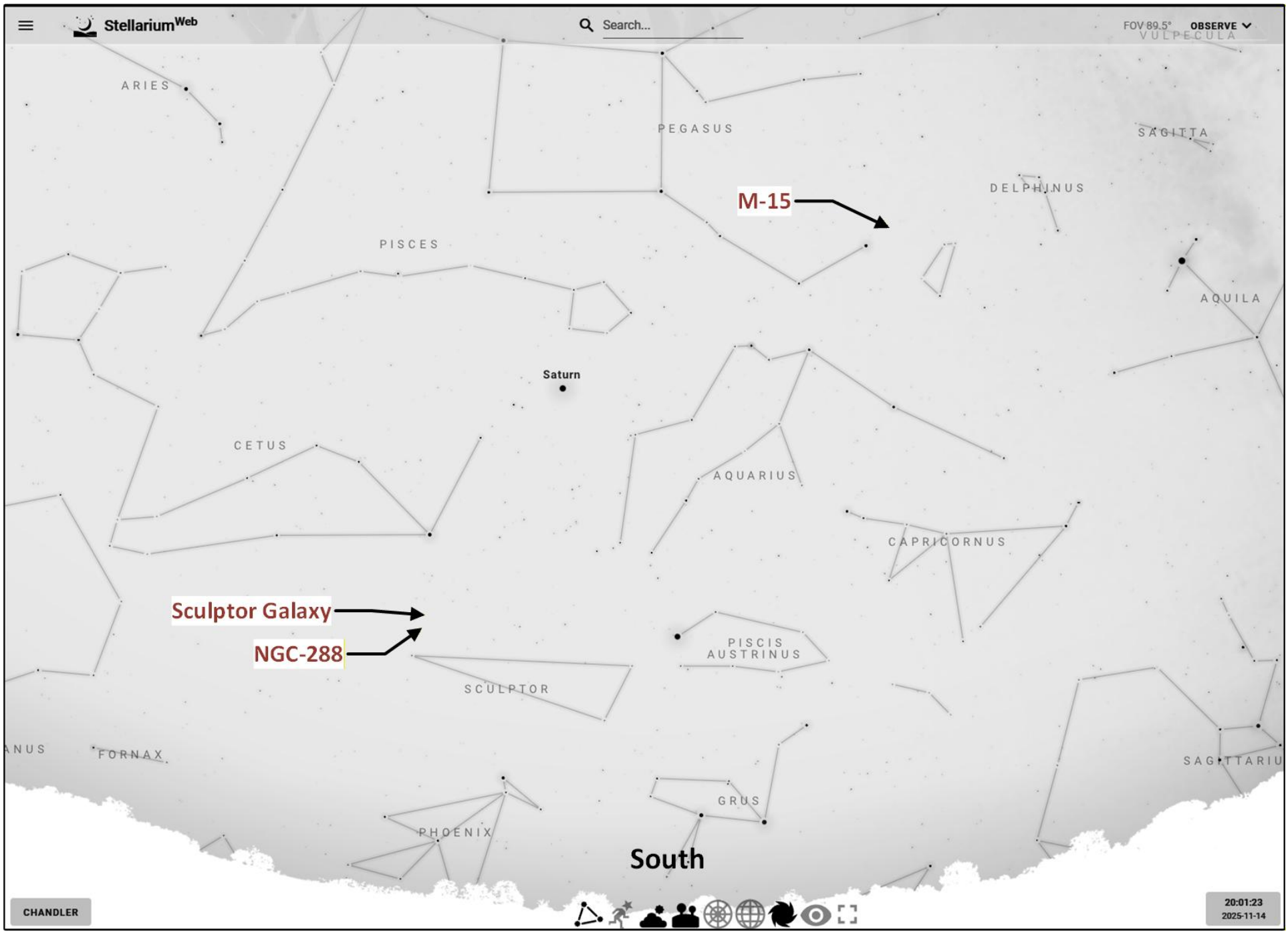
2025-11



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