

Constellation Guide

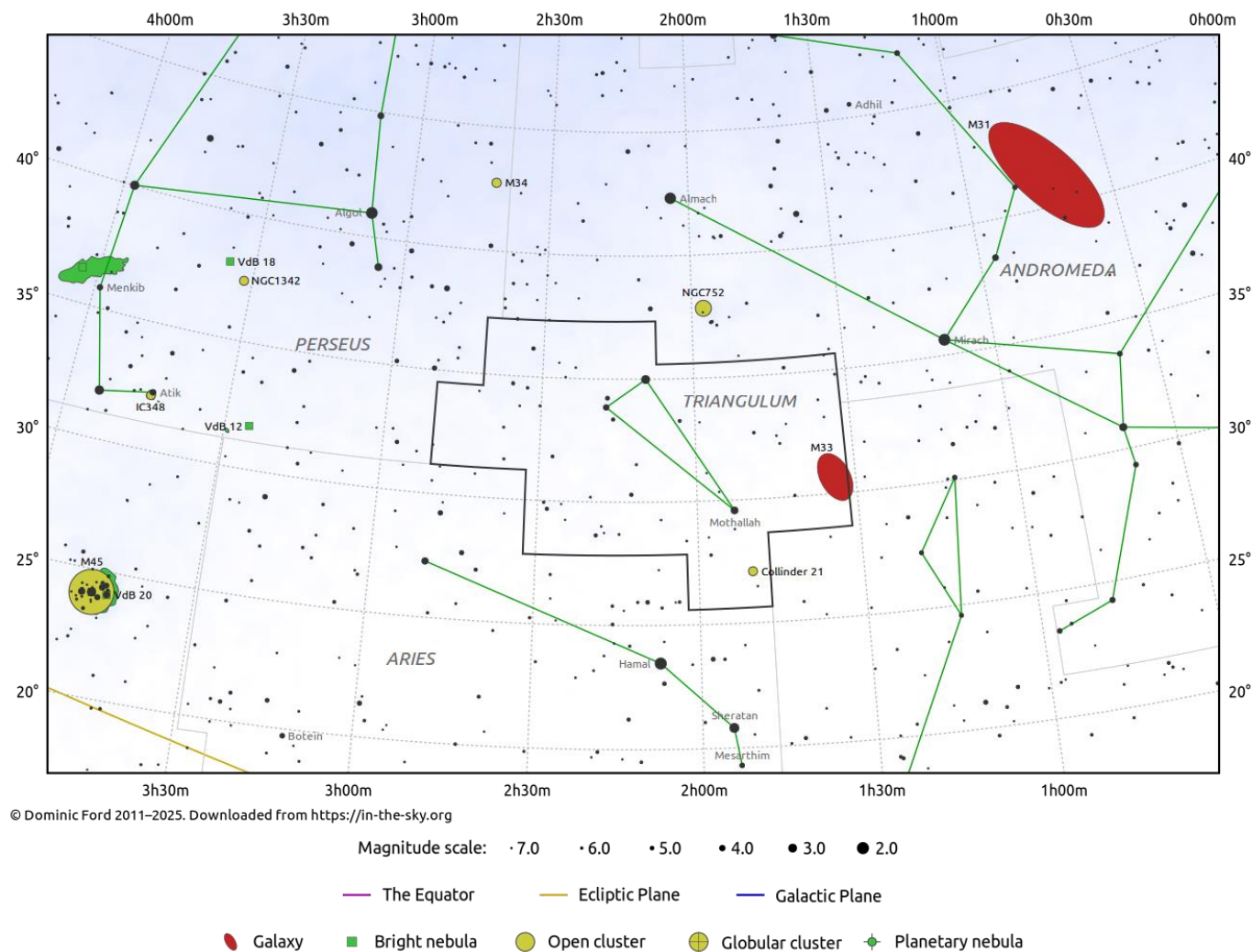
Triangulum (Tri)

Evening Visibility: **October - December**

Online Information: [Triangulum](#)

More Online Information:

[In-The-Sky.org](#) Constellation Map



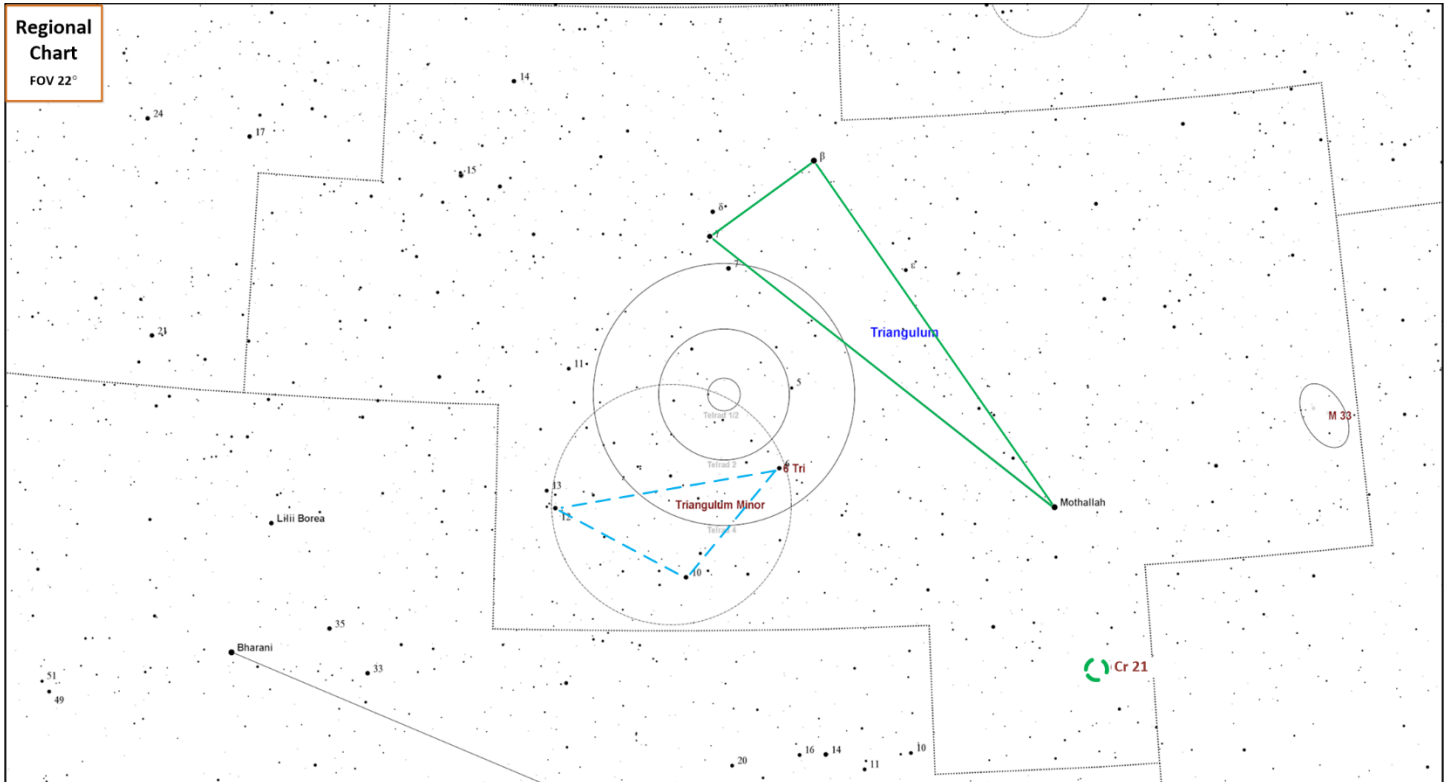
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Triangulum is one of the smaller constellations in the sky whose name means “The Triangle” in Latin and was cataloged by the Greek astronomer Ptolemy in the 2nd century. This constellation does not have many deep sky targets but is the home to M-33, the Triangulum Galaxy; One of the galaxies in the “Local Group”, the three largest being the Milky Way, Andromeda and Triangulum. There are over 50 smaller galaxies in the Local Group.

Constellation Highlights

- **6 Tri (DS)** – Tight gold and blue pair

Constellation Targets Map

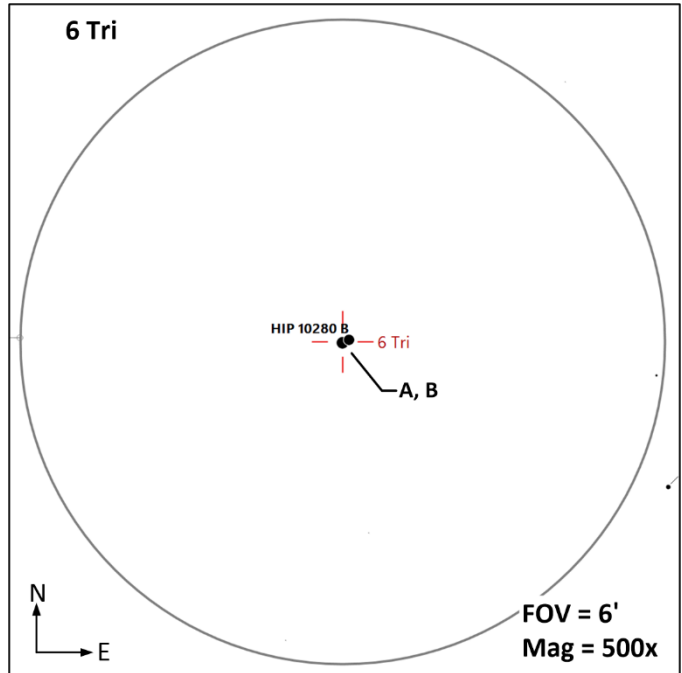
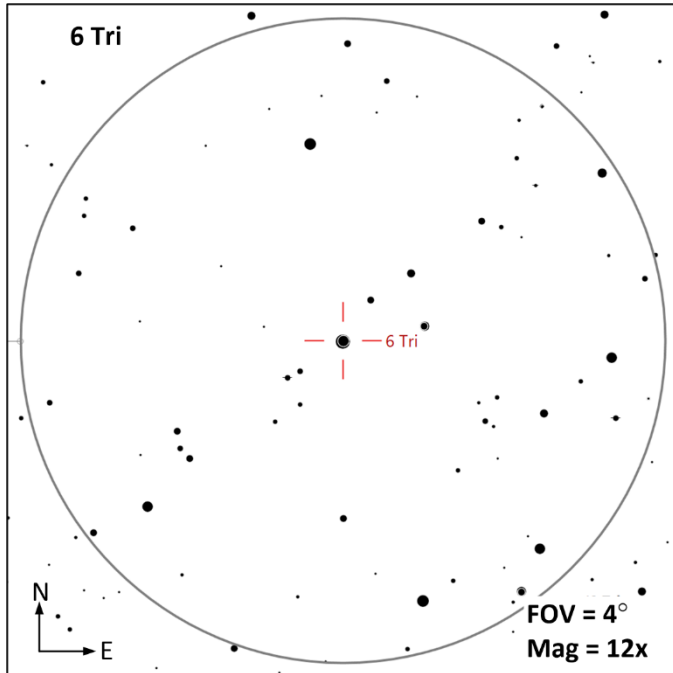


Objects Summary

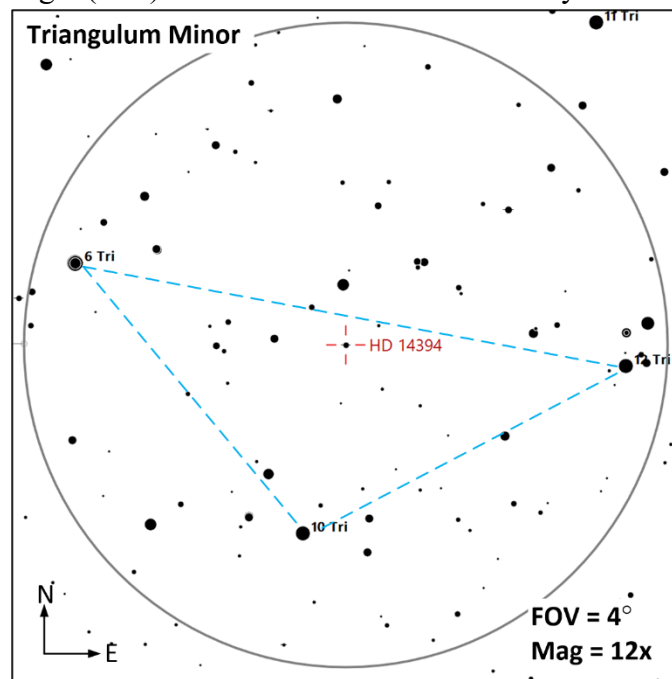
Object (Type)	Ref	Aliases	Stats
6 Tri (DS)	1 , 2	SAO-055347, HIP 10280, HR 642, HD 13480, STF 227, ADS 1697, Iota Tri	M=5.3, 6.7 Sep=4.0" PA=67° Tight gold and blue pair
Triangulum Minor (AS)			Size = 3.7° Stars = 3 3 Stars (6, 10, 12 Tri) Ref Star: SAO-075289 (HD 14394)
Collinder 21 (OC)		Lund58, OCL371	M=8.2 Size=9' SB= 21.6
Messier 33 (G)	1	Triangulum Galaxy, Pinwheel Galaxy, NGC 598, UGC1117, Pinwheel Galaxy, Triangulum Galaxy, Triangulum Pinwheel Galaxy, PGC 5818	M=5.7 Size=71' x 42' SB = 23.0

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6 Tri (DS **AB** | $M=5.3, 6.7$ | $\text{Sep}=4.0''$ | $\text{PA}=67^\circ$ |) – A tight gold and blue binary star system. This star is also part of the Triangulum Minor asterism described below.

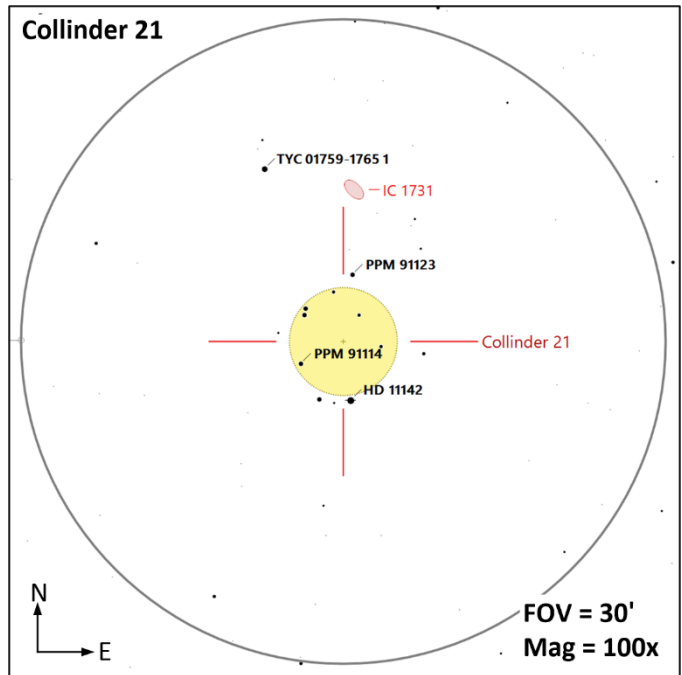
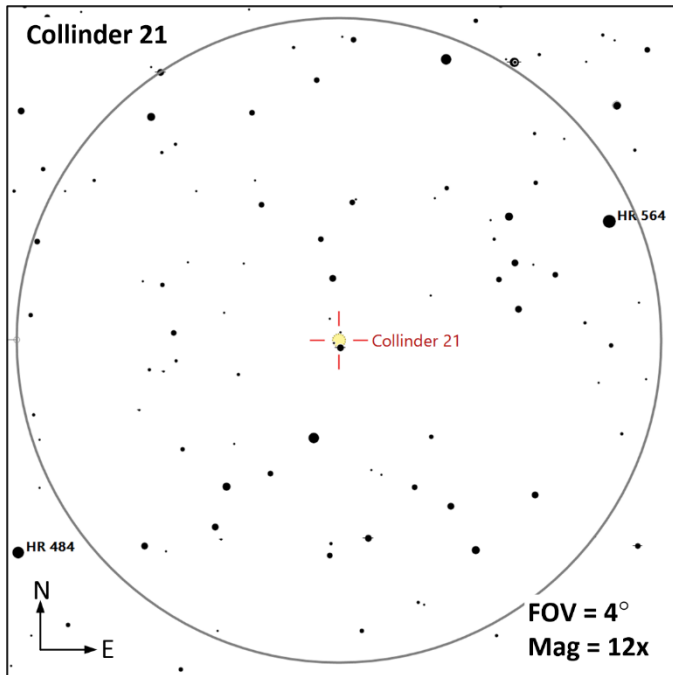


Triangulum Minor (AS | $\text{Size} = 3.7^\circ$ | Stars = 3 |) -A triangle composed of 6 stars: 6 Tri, 10 Tri and 12 Tri. Ref Star: SAO-075289 (HD 14394) can be used to center your telescope (goto) in the center of this triangle. However this is a wide angle target (3.7°) so binoculars would most likely be the instrument to use to view this.

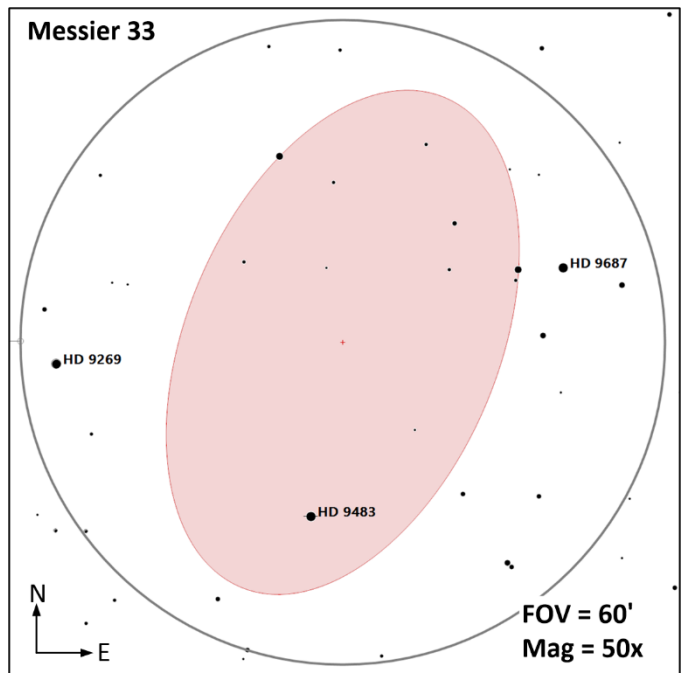
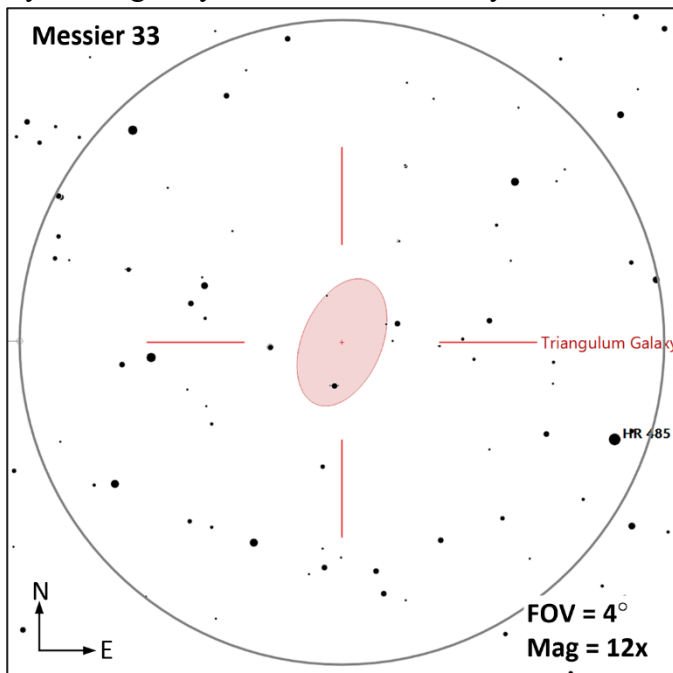


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Collinder 21 (OC | M=8.2 | Size=9' | SB= 21.6) – A small open cluster consisting of about 15 stars in a 9' radius.



Messier 33 (G | M=5.7 | Size=71' x 42' | SB = 23.0) – The Triangulum Galaxy is the largest of the Local Group of galaxies. While the magnitude would lead one to think it would be quite bright, it is spread over a large area and as a result has a very low Surface Brightness (23.0) so not an easy target to see unless in a dark sky. This galaxy is about 2.9 million ly from earth and has between 30 – 40 billion stars.



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References, Resources and Tools used to create this document

The resources listed below were utilized to generate this document.

References

- Books
 - [Objects in the Heavens](#): Peter Birren
 - [Touring the Universe through Binoculars](#): Philip Harrington
 - [The Deep Sky](#): Philip Harrington
 - [Double and Multiple Stars and How to Observe Them](#): James Mullaney
 - [Sky Spot](#) Books
 - Bright Telescopic Objects: Brent Watson
 - Select Double Stars: Brent Watson
 - Overlooked Objects: Bret Watson
- Asterisms
 - Astronomical League: [Asterisms observing program](#) List
 - Asterisms: Demeiza Ramakers
 - [Pattern Asterisms](#): John Chiravalle
- [Saguaro Astronomy Club](#)
 - Asterisms List
 - [110 Best of the NGC](#)
 - Red Stars List
- Online
 - [Wikipedia](#)
 - The Garden Astronomer: [Double, Multiple, and Special Star Observations List](#)
 - Sky & Telescope: [Colored Double Stars, Real and Imagined](#)
 - [In-The-Sky.org](#)
 - [Constellation-guide.com](#)

Applications

- [SkyTools](#) 4.1 Visual Professional
- [AstroPlanner](#) Version 2.4
- [Cartes du Ciel](#) Version 4.3
- [Sky Safari](#) Pro 7
- Microsoft Office Home and business 2021 - Word
- Microsoft Visio Professional 2010
- [IrfanView](#) Version 4.72