

**Meeting Date**

November 9, 2025

**Night Begins**

6:53 PM EST

Note: Astronomical Twilight Ends

**Solar Noon / Midnight**

12:15 EST

Note: on Meeting Date

**Moon Quarters**

Full 11/05, Last 11/12, New 11/20, First 11/28

**Darkest Evenings**

11/10 – 11/26

Note: 2 days before Last thru 2 days before First

**Viewing Resources**

Evening Sky Maps

<http://skymaps.com/>

Astronomy Forecasts

<https://clearoutside.com/forecast/42.82/-83.14>[http://oaklandastronomy.net/ambient\\_RH.html](http://oaklandastronomy.net/ambient_RH.html)

Peter Birren's Deep-Sky Fieldbooks

<http://www.birrendesign.com/astro.html>**Featured Constellations: Triangulum, Aries, & Cetus**A selection from Peter Birren's deep-sky fieldbook, *"Objects in the Heavens"*, pages 122-123, 54-55, 72-73

CONSTELLATION	COMMON NAME	SEASON,	ON MERIDIAN	ABBREVIATION
ITEM IDENTIFIER	TYPE	DETAILS	☆☆ SEPARATION / SIZE	RA DEC MAG

## Triangulum Triangle, St. Peter's Miter Autumn Dec 5 **TRI**

*"An ancient constellation, including several good objects."*

☆☆ TZ/Iota ι Yellow/blue; use high power 4" 02:13.5 30°24' 5/6.6

○○ **M33**<sub>598</sub> **SG !** Sc; Pinwheel/TRI Galaxy 60'x40' 01:35.0 30°46' **5.8**

*"A very curious object, only fit for low powers."*

Measure of good transparency if seen naked eye. Large with bright core and faint arms. 1/4 size of Milky Way at 45kLY across; 3mLY; L.

○ **NGC 925** EG Sb-Sc; coarse spiral; 10.7'x6' 02:28.5 33°40' 10.2

○○ **Cr 21** OC In 15☆☆ group; 4 dim SG to West 9' 01:51.3 27°10' 8.2

CONSTELLATION	COMMON NAME	SEASON,	ON MERIDIAN	ABBREVIATION
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## Aries the Ram Autumn Dec 10 **ARI**

*"Three stars together mark it, but it reaches further east into a dull region."*

☆☆ **Mesarthim** γ Matched white ☆; 204LY 7.8" 01:54.7 19°24' 4/5  
One of earliest ☆☆ to be discovered (Hooke, 1664).

☆☆ 9/Lambda λ Yellow/purple (blue?) 37" 01:59.1 23°42' 5/7.7

☆☆ 1 Gold/blue 3" 01:51.3 22°23' 6/7.2

☆ **V®** Carbon ☆; var. 75-77 days 02:16.1 12°20' 8.3-11

☆☆ **Σ326/HD18143** Orange/dull red 5.9" 02:56.9 26°57' 7/9

○ **NGC 772** SG Sb; 2° SE of β; 100mLY away 7'x4.5' 02:00.5 19°06' 10.0

Galaxy designations, p.20

CONSTELLATION	COMMON NAME		SEASON,	ON MERIDIAN	ABBREVIATION	
ITEM IDENTIFIER	TYPE	DETAILS	☆☆ SEPARATION / SIZE	RA	DEC	MAG
<b>Cetus</b>	the Sea Monster, the Whale		Autumn	Nov 30	<b>CET</b>	
"Fine combinations and doubles; many dim."						
☆ Menkar	α	Bright orange ☆ in "jaws" of λ/γ		03:03.3	04°10'	2.54
☆ Mira	ο	Wonderful Star; 332 day variable		02:20.3	-02°53'	2-10
☆☆ Kaffaljidhma	γ	Yellow/white/reddish dwarf 2.9"		02:44.3	03°19'	3.5/7
☆☆ 52/Tau	τ	12LY; dust ring discovered 1.5'		01:45.0	-15°50'	3.5/13
○ M77 1068	SG	Sb; Cetus-A; Seyfert Galaxy 7'		02:43.7	-00°04'	9.1
Intense core; 60MLY; mag 10.5 NGC1055 in field NW						
○ NGC157	SG	Sc; bright core; 2☆ inside 3.7x2'		00:35.8	-08°17'	9.7
○ NGC246	PN	Skull/Pac-Man Nebula; use O-III 4'		00:48.0	-11°46'	9.9
○ NGC247	SG	Sc; poorly defined; edge-on 21'x6'		00:48.1	-20°39'	9.2
○ NGC584	EG	ES0; resolvable; NGC586 in field 4'x3'		01:32.3	-06°46'	10.3
○ NGC720	SG	E4; large; bright middle 4.5'x2.3'		01:53.9	-13°39'	10.2
○ NGC908	SG	Sc; thick arms; asymmetrical 6.2'x3'		02:23.9	-21°09'	10.2
○ NGC936	SG	SBA; dim NGC941 in field 5'x4'		02:28.6	-01°04'	10.1
○ IC1613	IG	Irr; 12kLY diam; L 13'x12'		01:05.9	02°14'	9.5v
Galaxy designations, p.20 L – Member of Local Group						