

<u>Meeting Date</u>	August 10, 2025		
<u>Night Begins</u>	10:32 PM. EDT	<i>Note: Astronomical Twilight Ends</i>	
<u>Solar Noon / Midnight</u>	1:37 EDT	<i>Note: on Meeting Date</i>	
<u>Moon Quarters</u>	First 08/01, Full 08/09, Last 08/16, New 08/23, First 08/31		
<u>Darkest Evenings</u>	08/14 – 08/29	<i>Note: 2 days before Last thru 2 days before First</i>	
<u>Viewing Resources</u>	Evening Sky Maps	http://skymaps.com/	
	Astronomy Forecasts	https://clearoutside.com/forecast/42.82/-83.14	
		http://oaklandastronomy.net/ambient_RH.html	
	Peter Birren's Deep-Sky Fieldbooks	http://www.birrendesign.com/astro.html	

Featured Constellations: Capricornus, Vulpecula, & Sagitta

A selection from Peter Birren's excellent deep-sky fieldbook, *"Objects in the Heavens"*, pages 64, 128, 110

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

Capricornus *the Sea Goat* Autumn Sep 20 **CAP**

"Not a conspicuous constellation, but containing some good objects."

☆☆ Al Giedi	α	The Goat; both yellow	6.3'	20:18.7	-12°27'	3.5/4
Naked-eye ☆☆ @ 40' separation with ν; 109LY + 578LY						
☆☆ Dabih	β	The Butchers; orange/blue	3.4'	20:22.1	-14°43'	3/6
○○ M30 7099	GC	The Jellyfish Cluster	11'	21:41.5	-23°05'	7.2
Dense; highly resolved; 26κLY						
○ M75 6864	GC	(nearby in Sagittarius)	6'	20:07.2	-21°52'	8.5

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Vulpecula *the Fox* Summer Sep 10 **VUL**

"Grand sweeping; few coloured stars. Dumbbell will not be disappointing."

VUL created by Johannes Hevelius in late 17th century.

12Jul07 - planet HD189733b found to have water vapor; 60LY.

☆ BD [®]		Very red carbon ☆; var. 430 days	20:38.1	26°33'	9-12.7
○○ M27 6853	PN	! Dumbbell Nebula; 1,360LY	8'x4'	20:00.5	22°46'
First PN discovered; one of finest PN; 2.9LY wide					7.1
○ NGC6793	OC	Small; in very rich field	6'	19:24.1	22°10'
○ NGC6800	OC	Subtle; loose; .5° WNW of Anser	10'	19:27.9	25°10'
○ NGC6802	OC	60☆ in haze; east of Cr399	3.2'	19:31.4	20°18'
					8.8

○○ NGC6823	C/N	30☆; large; rich; compressed	10'	19:44.0	23°21'	7.1
○ NGC6830	OC	50☆; diamond in a box	8'	19:51.8	23°09'	7.9
○ NGC6882	OC	Sparse; extension of NGC6885 AH03 J2011.9+2644 small, flattened circlet of 9☆ to SE	5'	20:12.6	26°52'	8.5
○ NGC6885	OC	35☆ mag6-11; bright; rich NGC6882/85 give interesting 3D effect	20'	20:12.8	26°32'	6.9
○○ NGC6940	OC	100☆; mostly circular; rich	25'	20:35.3	28°21'	6.3
○○ Cr 399	Ast	! Brocchi's Cluster/Coathanger Excellent binocular display for first-time viewers; 36☆	90'	19:26.3	20°13'	3.6
○○ Stock 1	OC	40☆; easy in binoculars	52'	19:36.6	25°16'	5.3
○ Ros 4	OC	Tiny double cluster in rich field	6'	20:05.7	29°16'	10.0

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Sagitta *the Arrow* Summer Aug 30 **SGE**

"Sweeping here magnificent; few coloured stars."

☆☆ 8/Zeta	ζ	Tight triple; green/blue	8"	19:49.9	19°12'	5/9
☆☆ 17/Theta	θ	☆☆☆; green/blue	11.4"/90"	20:10.8	20°58'	7/8/9
☆☆ X®		Carbon ☆; med. orange; nice area	13"	20:05.9	20°42'	8.7-13
○ M71 6838	GC	Highly resolved; very rich; 18kLY One of smallest globular clusters; arrowhead shape	9'	19:54.6	18°50'	8.18
○ Har 20	OC	40☆; little compressed; 2 centers	7'	19:53.9	18°23'	7.7