

Meeting Date	May 19, 2024	
Night Begins	10:52 PM. EDT	<i>Note: Astronomical Twilight Ends</i>
Solar Noon / Midnight	1:28 EDT	<i>Note: on Meeting Date</i>
Moon Quarters	Last 05/01, New 05/07, First 05/15, Full 05/23, Last 05/30	
Darkest Evenings	04/28 – 05/13 05/28-06/12	<i>Note: 2 days before Last thru 2 days before First</i>
Viewing Resources	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: Bootes and Hercules

A selection from Peter Birren's excellent deep-sky fieldbook, "Objects in the Heavens", pages 56-57 & 88-89

CONSTELLATION	COMMON NAME	SEASON, ON MERIDIAN	ABBREVIATION
ITEM IDENTIFIER	TYPE DETAILS	☆☆ SEPARATION / SIZE RA	DEC MAG
Boötes	<i>the Herdsman</i>	Summer Jun 15	BOO
<i>"A fine constellation... a noble object at all times. Boötes is rich in pairs, poor in clusters and nebulae." (Contains numerous galaxies mag11-14)</i>			
☆ <i>Arcturus</i>	α <i>Guardian of the Bear (UMa); orange;</i>	14:16.6	19°06' -0.05
First ☆ seen in daylight with 'scope (1635); 113x brighter than Sun; 36.7LY			
☆☆ 49/Delta	δ <i>Yellow/blue; 116.73LY</i>	105"	15:16.3 33°15' 3.5/8
☆☆ <i>Izar</i>	ε ☆☆☆; <i>orange/green 2.8"/176"(mag12)</i>	14:45.8	27°00' 2.6/5
☆☆ <i>Asellus Secundus</i>	ι <i>Yellow/white; 97LY</i>	DOUBLE-DOUBLE 38.8"	14:16.7 51°17' 5/7.5
☆☆ <i>Asellus Tertius</i>	κ <i>White/blue; 151LY</i>		14:14.2 51°42' 5/6.6
☆☆ <i>Alkalurops</i>	μ ☆☆☆; 120LY	2.2"/108"	15:25.2 37°19' 4/7/7
☆☆ 37/Xi	ξ <i>Yellow/reddish; good contrast</i>	6.9"	14:52.3 19°01' 4.7/7
☆☆ 29/Pi	π <i>Both white; 317LY</i>	5.6"	14:41.7 16°20' 5/5.8
☆☆ 39	<i>Fine color contrast</i>	2.9"	14:50.4 48°38' 6/6.8
☆☆ Σ1835	<i>Difficult; 215LY</i>	6.2"	14:24.3 08°21' 5/6.8
○ NGC5248	SG <i>Sc; member of Virgo Cluster 4"x2.4"</i>	13:38.5	08°47' 10.2
○○ NGC5466	GC <i>Faint white cloud; magnifies well 34'</i>	14:06.3	28°26' 9.0
○ Picot 1	Ast <i>Napoleon's Hat; 7☆, "inchworm"</i>	20'	14:15.0 18°31' 9-10

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Hercules		<i>Hercules, son of Zeus</i>		Summer	Jul 25	HER

"Some very noteworthy telescopic objects mark this constellation; and there is very fine sweeping in its south-following portion."

☆☆ <i>Ras Algethi</i>	α	Red/green (yellow/blue?); 410LY	4.7"	17:15.5	14°22'	3.5/5
☆☆ <i>Sarin</i>	δ	Green/pale purple; 79LY	12"	17:15.9	24°49'	3/8.3
☆☆ <i>Marfik</i>	κ	Yellow/orange-red	28"	16:08.9	17°00'	5/6.5
☆☆ 75/Rho	ρ	Both white	4.1"	17:24.4	37°08'	5/5.6
☆☆ 95®		Cherry red/apple green	6.3"	18:02.4	21°36'	5/5.1
☆ X		Binoc variable, 95 days, semi-reg.		16:03.2	47°11'	6.5-8.6
☆ HR6669		Closest of Sol's brothers; 110LY		17:51.9	40°04'	6.57
○○ M13 ₆₂₀₅	GC	!! Great Cluster; 300,000+☆ 23.2kLY away; 150LY diameter; star chains at margins Density: ~1 ☆/cubic LY; mag11 SG _{NGC6207} is 40' NE; 12BYO	23'	16:42.4	36°25'	5.7
○○ M92 ₆₃₄₁	GC	Bright; spiral shape; 25kLY	11.2'	17:17.7	43°07'	6.44
○ _{NGC6210}	PN	Small; bluish disc; bright; 5400LY	28'	16:45.3	23°46'	9.5
○ _{NGC6229}	GC	Mottled triangle; very bright	5'	16:47.5	47°30'	9.4
○ Star 7	Ast	<i>The Zig Zag Asterism</i>	15'	16:19.5	12°44'	9.0
○ Star 23	Ast	<i>Backwards 5</i>	20'	16:36.5	30°44'	8.5
○ Star 24	Ast	Conspicuous ring with mag 7☆	15'	18:04.0	26°21'	8.0
○○ DoDz 9	OC	25☆ in 20' ring	20'	18:08.9	30°08'	6.5