

<u>Meeting Date</u>	May 19, 2024		
<u>Night Begins</u>	10:52 PM. EDT	<i>Note: Astronomical Twilight Ends</i>	
<u>Solar Noon / Midnight</u>	1:28 EDT	<i>Note: on Meeting Date</i>	
<u>Moon Quarters</u>	Last 05/01, New 05/07, First 05/15, Full 05/23, Last 05/30		
<u>Darkest Evenings</u>	04/28 – 05/13	05/28-06/12	<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: 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	Guardian of the Bear (UMa); orange; 14:16.6	19°06' -0.05	
First ☆ seen in daylight with 'scope (1635); 113x brighter than Sun; 36.7LY			
☆☆ 49/Delta δ	Yellow/blue; 116.73LY	105" 15:16.3 33°15' 3.5/8	
☆☆ <i>Izar</i> ε	☆☆☆; orange/green 2.8"/176"(mag12)	14:45.8 27°00' 2.6/5	
☆☆ <i>Asellus Secundus</i> ι	Yellow/white; 97LY	DOUBLE- 38.8" 14:16.7 51°17' 5/7.5	
☆☆ <i>Asellus Tertius</i> κ	White/blue; 151LY	DOUBLE- 13.5" 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	Yellow/reddish; good contrast	6.9" 14:52.3 19°01' 4.7/7	
☆☆ 29/Pi π	Both white; 317LY	5.6" 14:41.7 16°20' 5/5.8	
☆☆ 39	Fine color contrast	2.9" 14:50.4 48°38' 6/6.8	
☆☆ Σ1835	Difficult; 215LY	6.2" 14:24.3 08°21' 5/6.8	
○ NGC5248	SG Sc; member of Virgo Cluster 4"x2.4"	13:38.5 08°47' 10.2	
○○ NGC5466	GC Faint white cloud; magnifies well 34'	14:06.3 28°26' 9.0	
○ Picot 1	Ast Napoleon's Hat; 7☆, "inchworm" 20'	14:15.0 18°31' 9-10	

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Hercules		<i>Hercules, son of Zeus</i>	Summer	Jul 25		HER
<i>"Some very noteworthy telescopic objects mark this constellation; and there is very fine sweeping in its south-following portion."</i>						
☆☆ <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