

<u>Meeting Date</u>	Dec 11, 2022	
<u>Night Begins</u>	6:42 PM EST	<i>Note: Astronomical Twilight Ends</i>
<u>Solar Noon / Midnight</u>	12:27 EST	<i>Note: on Meeting Date</i>
<u>Moon Quarters</u>	First 11/30, Full 12/08, Last 12/16, New 12/23, First 12/30	
<u>Darkest Evenings</u>	11/14 - 11/29	12/14 - 12/27 <i>Note: 2 days before Last Quarter thru 2 days before First Quarter</i>

<u>Viewing Resources</u>	Evening Sky Maps	http://skymaps.com/
	Astronomy Forecast	https://www.cleardarksky.com/
	Satellite Tracking	https://www.heavens-above.com/
	Melotte Catalogue	https://en.wikipedia.org/wiki/Melotte_catalogue

<u>Deep Sky</u>	Focus: 03 Hours RA Thru 04 Hours RA					<i>Note: West to East</i>
Featured Targets						
<u>Asterism</u>	M / NGC / IC	Constellation	Type	vMag	Quality	Common Name
Kemble's Chain Cam Ast 5 to 10 1A Kemble's Cascade						
A beautiful cascade of faint stars tumbling from the northwest down to the OC NGC 1502						
<u>Double Star</u>	55 Eridani	Eri	DS	6.5	3A	Struve 590
Mag 6.6, 6.8 Sep 9.2" Very rich yellow and blue, spectral class G8 and F4						
<u>Open Cluster</u>	NGC 1502	Cam	OC	6.9	3A	Jolly Roger Cluster
Bright, Small, fairly Rich, and Triangular. End of Kemble's Cascade						
<u>Globular Cluster</u>	None					
No Bright Globular Clusters North of -35 Declination in these RA						
<u>Galaxy</u>	IC 342	Cam	GAL	9.1	3B	The Hidden Galaxy, C 5
Located not far from Gamma Cam, face on, 3rd largest northern spiral.						
<u>Planetary Nebula</u>	NGC 1535	Eri	PLN	9.5	3B	Cleopatra's Eye
Blue Ball, East of Zaurak (gamma), 30" diameter, Similar to the Eskimo.						
<u>Emission Nebula</u>	NCG 1435	Tau	C/N	4.2	2C	Merope Nebula
Faint dusty cloud near 23 Tau and 17 Tau in M45						

<u>Constellations</u>	<i>Note: Sorted by Average RA, Rank by Size 1 - 88</i>					
	Name	Common Name	Rank	Alpha Star		
	Perseus	the Hero	24	Mirfak (33)		
	Eridanus	the River	6	Achernar (Never Rises)		

<u>Messier Objects</u>	<i>Note: Sorted by RA</i>					
	Name	Constellation	Type	vMag	Quality	NGC Common Name
	M 45	Tau	OCL	1.2	1A	1435 Pleiades, Mel 22