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| <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> |

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|---------------------------------|--------------------|---|
| <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 |

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|--------------------------------|--|-----------------------------|--------------------|--------------------|---------------------------|---------------------------|
| <u>Deep Sky</u> | Focus: 03 Hours RA Thru 04 Hours RA | | | | <i>Note: West to East</i> | |
| <u>Featured Targets</u> | <i>Note: Quality 1 = very easy, 5 = very hard, A = spectacular, D = detectable but featureless</i> | | | | | |
| | <u>M / NGC / IC</u> | <u>Constellation</u> | <u>Type</u> | <u>vMag</u> | <u>Quality</u> | <u>Common Name</u> |
| <u>Asterism</u> | 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> | | | |
|-----------------------|--|--------------------|-------------|------------------------|
| | <u>Name</u> | <u>Common Name</u> | <u>Rank</u> | <u>Alpha Star</u> |
| | Perseus | the Hero | 24 | Mirfak (33) |
| | Eridanus | the River | 6 | Achernar (Never Rises) |
| | Taurus | the Bull | 17 | Aldebaran (87) |

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