

Meeting Date

October 8, 2023

Night Begins8:39 PM. EDT *Note: Astronomical Twilight Ends***Solar Noon / Midnight**1:22 EDT *Note: on Meeting Date***Moon Quarters**

Last 10/06, New 10/14, First 10/21, Full 10/28

Darkest Evenings10/04 – 10/19 *Note: 2 days before Last Quarter thru 2 days before First Quarter***Viewing Resources**

Evening Sky Maps <http://skymaps.com/>
 Astronomy Forecast <https://www.cleardarksky.com/>
 RASC Finest NGC Objects <https://www.rasc.ca/finest-ngc-objects>
 A. Clarke's Discovering Astronomy <https://discovering-astronomy.eu/index.html>

RASC Finest NGC**Focus: 23 Hours RA Thru 00 Hours RA***Note: West to East***Featured Objects**

Primary ID	RASC Number	Alternate ID	Con	Type	RA 2000	Decl 2000	Mag	Size
NGC 40	110	Bowtie Nebula	Cep	PN	00h13m01.0s	+72°31'19"	10.7	1.0'
		Unusual red planetary; 11.6 magnitude Central Star						
NGC 7635	4	Bubble Nebula	Cas	EN	23h20m43.0s	+61°12'31"	11	16.0'x 9.0'
		Bubble Neb.; very faint; 1/2 deg SW of M52						
NGC 7789	5	OCL 269	Cas	OC	23h57m24.0s	+56°42'30"	7.5	25.0'
		!! 300*; faint but very rich cluster						
NGC 281	7	PacMan Nebula	Cas	EN	00h53m00.0s	+56°37'00"	7.4	30.0'
		!! Large faint nebulosity near eta Cas						
NGC 185	6	MCG 8-2-10	Cas	Gal	00h38m57.9s	+48°20'15"	10.2	10.7'x 8.9'
		Companion to M31; small and faint						
NGC 7662	11	Blue Snowball	And	PN	23h25m54.0s	+42°32'05"	8.6	17"
		!! Blue Snowball; annular at high power						
NGC 246	15	Skull Nebula	Cet	PN	00h47m03.3s	-11°52'19"	10.4	4.0'
		Large and faint with mottled structure						
NGC 253	13	Sculptor Galaxy	Scl	Gal	00h47m33.1s	-25°17'20"	7.9	28.2'x 5.5'
		!! Very large and bright but at low altitude						

Urban & Small Scope Bonus**Focus: 23 Hours RA Thru 00 Hours RA***Note: West to East*A selection of double stars from Agnes Clarke's excellent book, *Discovering Double Stars (for Northern light-polluted skies)***Featured Double Stars**

Primary ID	Magnitude	Separation	PA	Description
STF 3053, page 43	6.0 7.2	15.2"	70	A bright yellow primary with an white companion
Eta Cas, Page 45	3.4 7.5	12"	307	A tightly bound and balanced pair of bright yellow stars
Sigma Cas, page 46	5.0 7.1	3"	326	A blue-white primary almost touching a delicate secondary
65 Psc, page 47	6.3 6.3	4.4"	297	An equal pair of fairly bright light yellow stars
35 Psc, page 52	6.0 7.6	11.6"	148	An easy, bright double star, white primary, yellow secondary.
55 Psc, page 54	5.4 8.7	6.5"	194	A bright orange primary with a white secondary close by.
38 Psc, page 55	7.9 7.8	4.3"	326	A very close and equal pair of yellow stars.
STF 3008, page 60	7.2 7.7	7.1"	147	An equal pair, with an orange primary, fainter secondary
94 Aqr, page 61	5.3 7.0	12.1"	353	A bright yellowish primary, fairly bright companion.
107 Aqr, page 62	5.7 6.5	7.0"	136	A bright white primary with a yellowish companion