

<b>Meeting Date</b>	July 9, 2023	
<b>Night Begins</b>	11:25 PM. EDT	<i>Note: Astronomical Twilight Ends</i>
<b>Solar Noon / Midnight</b>	1:39 EDT	<i>Note: on Meeting Date</i>
<b>Moon Quarters</b>	Full 07/03, Last 07/09, New 07/17, First 07/25	
<b>Darkest Evenings</b>	07/07 – 07/23	<i>Note: 2 days before Last Quarter thru 2 days before First Quarter</i>

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

### **RASC Finest NGC** Focus: 17 Hours RA Thru 18 Hours RA *Note: West to East*

#### **Featured Objects**

Primary ID	RASC Number	Alternate ID	Con	Type	RA 2000	Decl 2000	Mag	Size
NGC 6503	88	MCG 12-17-9 Bright elongated spiral	Dra	Gal	17h49m26.5s	+70°08'40"	10.8	6.5'x 2.1'
NGC 6543	89	Cat's Eye Nebula Cat's Eye Nebula; with 11 mag central star	Dra	PN	17h58m33.4s	+66°37'59"	8.3	22"
NGC 6572	92	Blue Racquetball Tiny bright blue oval	Oph	PN	18h12m06.4s	+06°51'12"	8	15"
NGC 6633	93	Collinder 380 Sparse wide field cluster; IC 4756 nearby	Oph	OC	18h27m15.0s	+06°30'30"	5.6	20.0'
NGC 6712	94	"Black Widow" Small globular; look for IC 1295 in field	Sct	GC	18h53m04.0s	-08°42'18"	8.1	9.8'
NGC 6445	102	He 2-290 Small, bright and annular; near M23	Sgr	PN	17h49m15.1s	-20°00'34"	13	35"
NGC 6369	91	Little Ghost Neb "Little Ghost"; look for NGC 6309 nearby	Oph	PN	17h29m20.4s	-23°45'34"	11	30"
NGC 6520	103	Collinder 361 60*; small; dark nebula. B86 in same field	Sgr	OC	18h03m24.0s	-27°53'18"	7.6	5.0'

### **Urban & Small Scope Bonus** Focus: 17 Hours RA Thru 18 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
Rho Her, page 191	4.6   5.6	4.1"	316	A very close equally matched pair, white and fainter blue
Mu Her, page 194	5.6   5.7	1.9"	8	A tightly bound pair of yellow stars.
Delta Her, page 201	3.1   8.2	8.9	236	A close white-blue pairing. The primary is over 5 mag brighter
Alpha Her, page 203	3.5   5.4	4.7"	107	A reasonably balanced orange-blue pair,
100 Her, page 205	5.9   6.0	14"	93	Two almost identical bright white stars, headlights
STF 2404, page 208	6.9   8.1	3.6"	183	Two orange stars with very tight separation
70 Oph, page 209	4.2   6.0	6.7"	72	A brilliant yellow with a bright orange companion. 88 year period