

<u>Meeting Date</u>	Sep 11, 2022					
<u>Night Begins</u>	9:28 PM EDT	<i>Note: Astronomical Twilight Ends</i>				
<u>Solar Noon / Midnight</u>	1:31 EDT	<i>Note: on Meeting Date</i>				
<u>Moon Quarters</u>	First 09/03, Full 09/10, Last 09/17, New 09/25					
<u>Darkest Evenings</u>	08/17 - 09/01	09/15 - 09/30	<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

Deep Sky Focus: 21 Hours RA Thru 22 Hours RA *Note: West to East*

Featured Targets *Note: Quality 1 = very easy, 5 = very hard, A = spectacular, D = detectable but featureless*

<u>M / NGC / IC</u>	<u>Constellation</u>	<u>Type</u>	<u>vMag</u>	<u>Quality</u>	<u>Common Name</u>
Asterism	Tobacco Pipe	Cep	AST	6.6	1A Tobacco Pipe
	Stem of 8 stars, pointed north. Bowl of 5 stars on south end. 22H 30m 70d 30'				
Double Star	61 Cygni	Cyg	DS	5.2	1A Bessel's Star
	Mag 5.2, 6.0 Sep 28" True binary pair, Both Orange K stars, good to try with Binoculars.				
Open Cluster	NGC 7419	Cep	OC	13	5A Cr 453
	Use a larger scope, heavily reddened and notable for containing five red supergiants				
Globular Cluster	M 2	Aqr	GCL	6.3	3B Ngc 7089 Mel 235
	Small telescopes will identify this cluster as non-stellar, while larger telescopes will resolve individual stars				
Galaxy	NGC 7331	Peg	GAL	9.49	3A Deer Lick C 30
	Medium-sized, unbarred spiral Galaxy, 4 other members of Deer Lick, Stephan's Quintet nearby.				
Planetary Nebula	NGC 7009	Aqr	PN	8	3A Saturn Nebula C 55
	Greenish-yellowish hue, resembles the planet Saturn.				
Emission Nebula	NCG 7635	Cas	C/N	10	4c Bubble Nebula C 11
	Near M 52, needs dark skies and larger telescopes. Try Narrow band and OIII filters.				

Constellations

Note: Sorted by Average RA, Rank by Size 1 - 88

<u>Name</u>	<u>Common Name</u>	<u>Rank</u>	<u>Alpha Star</u>
Capricornus	the Horned Goat	40	Al Giedi (5)
Equuleus	the Little Horse	87	Kitalpha (8)
Piscis Austrinus	the Southern Fish	60	Fomalhaut (24)
Aquarius	the Water Carrier	10	Sadal Melik (34)
Lacerta	the Lizard	68	Alpha (7)
Pegasus	the Winged Horse	7	Markab (54)

Messier Objects

Note: Sorted by RA

<u>Name</u>	<u>Constellation</u>	<u>Type</u>	<u>vMag</u>	<u>Quality</u>	<u>NGC</u>	<u>Common Name</u>
M 15	Peg	GCL	6.3	2A	7078	Pegasus
M 39	Cyg	OCL	4.6	2B	7092	Mel 236
M 2	Aqr	GCL	6.3	3B	7089	Mel 235
M 30	Cap	GCL	7.7	3C	7099	Jellyfish