

What's Up?

August 12-September 8, 2022



By: Michael Wright



What's Up – Solar System

DATE	SOLAR SYSTEM SKY EVENTS
Aug. 12	Perseid Meteor Shower Peaks overnight
Aug. 14	Saturn at Opposition in Capricornus
Aug. 15	Jupiter 3°N of Moon at 5am (nice binocular view!)
Aug. 15/16	Jupiter double shadow transit - Io and Ganymede - double shadows 11:59pm-1:38am
Aug. 19	Moon at Last Quarter in Taurus
Aug. 19	Moon within 4° of Mars near Pleiades (nice binocular view in morning sky!)
Aug. 22	Vesta at Opposition in Aquarius
Aug. 27	New Moon in Leo
Aug. 27	Mercury at Greatest Elongation E - 27° - Look in Evening Sky
Sep. 03	First Quarter Moon in Scorpius
Sep. 07	Juno at Opposition in Pisces
Sep. 08	Moon within 6° of Saturn after midnight (nice binocular view)

Morning Sky

Mars – TAU
 Venus - CNC/LEO
 Pallas - ORI
 Ceres - CNC

Most of the Night

Jupiter – CET/PSC
 Saturn - CAP
 Vesta - AQR
 Neptune - AQR
 Pluto - SGR
 Juno - PSC

Evening Sky

Mercury - LEO/VIR

Planet
 Planner

Grey = Close to Sun



ROYAL
ASTRONOMICAL
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KW Centre



What's Up – Lunar Librations

Pythagoras



Mare Humboldtianum

Northern Libration - September 8

Nice Sight No. 1

Moon & Jupiter In Binoculars

Mon. Aug 15

5:00 AM

View to SW

Sunrise: 5:56 AM



Graphic created with Stellarium

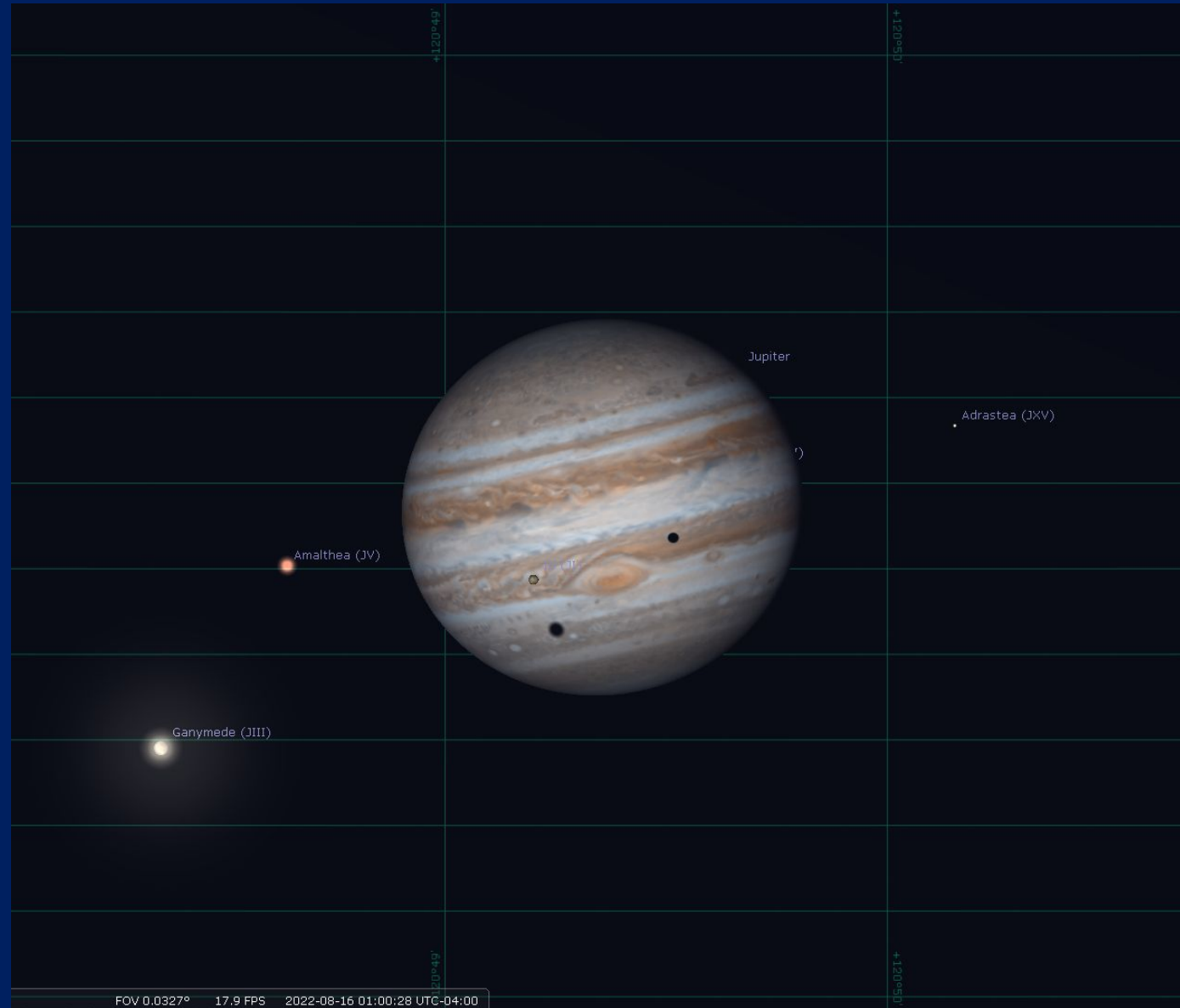
Nice Sight No. 2

Jupiter Double Shadow Transit In Telescope

Io & Ganymede

Tues Aug 16
12:00 AM-1:38 AM

View to SE



Graphic created with Stellarium

Nice Sight No. 3

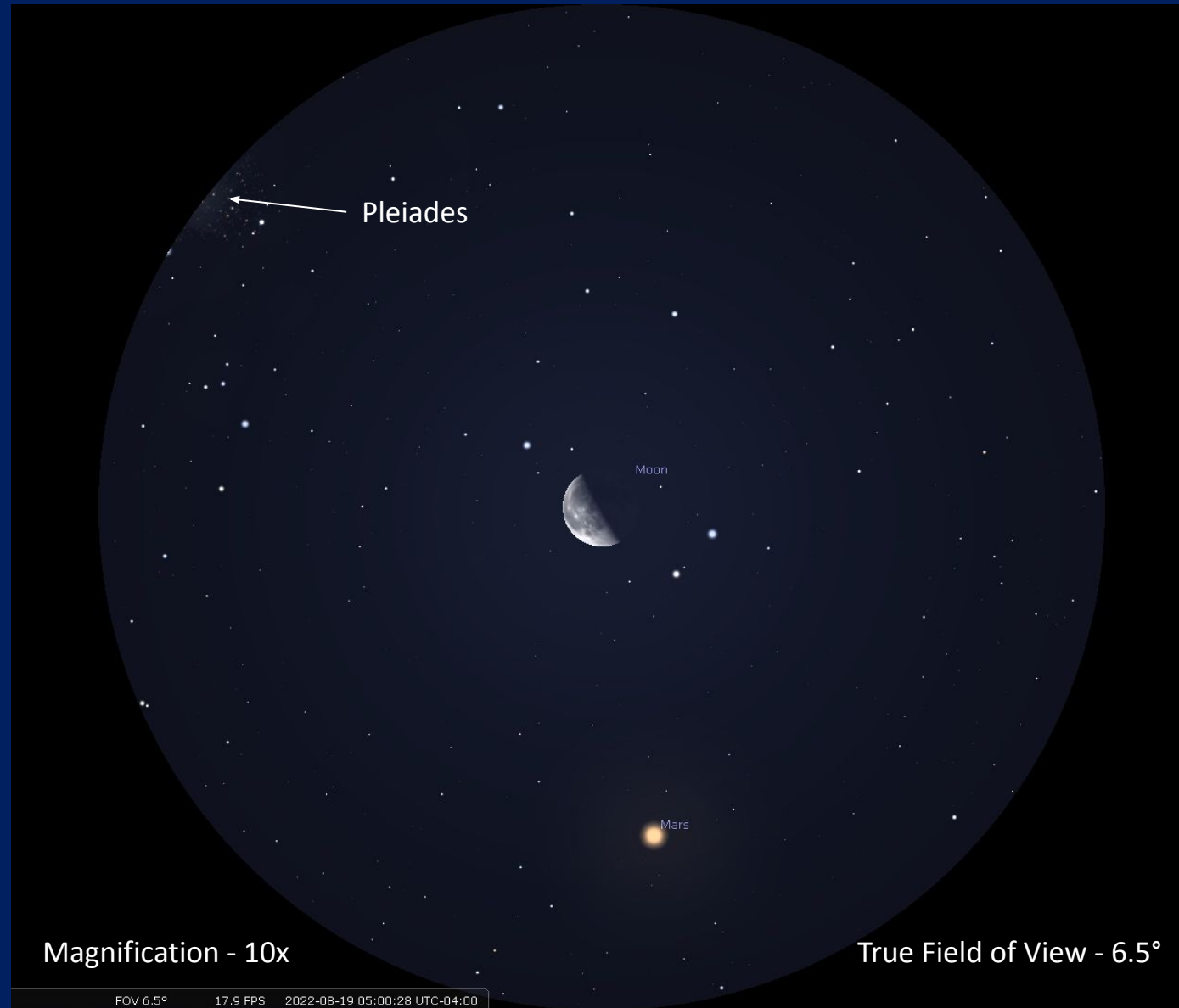
Moon & Mars In Binoculars

Fri. Aug 19

5:00 AM

View to SE

Sunrise: 6:32 AM



Graphic created with Stellarium

Evening Sky Highlights



(4) Vesta

Saturn

Capricornus

SE

Equuleus

Altair

Aquila

IC4756 NGC6633

Serpens

Ophiuchus

M11

NGC6712

M26

NGC6664

M16

M17

M18

M24

M23

NGC6445

M21

M20

M8

M75

M22

M28

Libra

Sagittarius

M54

M70

M69

NGC6723

M55

Corona Australis

Scorpius

Antares

S

SW

Facing South

10:30pm EDT August 16 2022

Evening Sky Highlights



10:30pm EDT August 16 2022

South/Overhead

August Deep Sky Highlights 1

Clusters, Star Clouds & Nebulae! * = RASC Finest NGC

Catalogue #	Type	Cons	Details	Difficulty
NGC6723	gcl	Sgr	Chandelier Cluster - beautiful, but far in south on border of CrA	difficult
M69	gcl	Sgr	Core assymetric to north, sickly pallor, patchy appearance	moderate
M70	gcl	Sgr	Look for arms curling out of tight fuzzy core	moderate
M54	gcl	Sgr	Bright stellar core, yellowish inner halo that gradually diffuses outward	moderate
M8	en + ocl	Sgr	Lagoon Nebula - Stunning HII region with dark lanes, stars sprinkled	easy
M20	en + rn	Sgr	Trifid Nebula - Three prominent lobes and a fourth dim one, dark lanes	easy
M21	ocl	Sgr	Webb's Cross - Poorly defined boundaries, almost 'spiral' structure	easy
M28	gcl	Sgr	Tight centre with diffuse halo, core straw-tinged, halo is pale blue	easy
M22	gcl	Sgr	Great Sagittarius Cluster - dark gash running NE to SW through core	easy
M23	ocl	Sgr	Round concentric circles of stars with trail of stars leading NW	easy
NGC6445*	pn	Sgr	Box Nebula - knotty enhancements surrounding irregular hole	moderate
M24	star cloud	Sgr	Small Sagittarius Star Cloud - Pale green sheen with dark nebulosity	easy
M25	ocl	Sgr	Two prominent E-W arcs of stars, a dark rift in between, nob of stars	easy
M18	ocl	Sgr	Black Swan Cluster - Main body of bright stars forms swan shape	easy
M17	en	Sgr	Swan/Omega Nebula - bright swan-shaped nebulosity - spectacular	easy
M16	en + ocl	Sgr	Eagle Nebula - diffuse eagle shaped nebulosity with involved cluster	easy
M55	gcl	Sgr	Spectre Cluster - at med power, nicely resolved into arcs and dark bars	easy
M75	gcl	Sgr	Star-like nucleus, vaporous shell and halo, large aperture to resolve	moderate



August Deep Sky Highlights 2

Clusters, Star Clouds & Nebulae! * = RASC Finest NGC

Catalogue #	Type	Cons	Details	Difficulty
C57/NGC6822	g(lrr)	Sgr	Barnard's Galaxy - triangular wedge of light at low power, bar present	difficult
NGC6818*	pn	Sgr	Little Gem Nebula - annular, hole more implied than defined, pale blue	moderate
M26	ocl	Scu	Central diamond of stars, cluster pierced by bars of obscuring matter	easy
NGC6664	ocl	Scu	Santa's Sleigh Cluster - 60+ stars easily resolved, best at 60x	moderate
NGC6712*	gcl	Scu	Speckled outer halo, no central concentration, resolved at high power	moderate
M11	ocl	Scu	Wild Ducks Cluster - spectacular fan of stars, dark nebulae nearby	easy
NGC6633*	ocl	Oph	Tweedledum Cluster - lovely widefield cluster, look for hook shape	easy
IC4756	ocl	Ser	Tweedledee Cluster - another widefield cluster, many patterns within	easy
NGC6709	ocl	Aql	Flying Unicorn Cluster - cluster at heart of a dense star cloud	moderate
NGC6781*	pn	Aql	Pale version of the Owl Nebula (M97)	moderate
M71	gcl	Sge	Angelfish Globular - loose globular, easily resolved, lacks dense centre	easy
M27	pn	Vul	Dumbell Nebula - pale green-grey, hourglass shape with faint loops	easy
NGC6802*	ocl	Vul	Fifty stars, at the east end of the Coathanger	moderate
Cr 399	asterism	Vul	Coathanger Cluster - looks just like the name, but stars unrelated	easy
C37/NGC6885	ocl	Vul	Cluster looks ring-shaped with 20 Vul on east side	difficult
NGC6940*	ocl	Vul	Mothra Cluster - 60 stars, fairly rich cluster in Milky Way	moderate
M56	gcl	Lyr	Assymetrical core with spherical halo, resolvable at medium power	moderate
M57	pn	Lyr	Ring Nebula - smokey ring of nebulosity, 'hole' has faint feeble light	easy
Double Double	multiple star	Lyr	Epsilon Lyrae - beautiful quadruple star system - two pairs of stars	easy



What's Up? Resources

RASC Observer's Handbook - The Sky By Month

NASA SVS Moon Viewer: <https://svs.gsfc.nasa.gov/4955>

Stellarium: <https://www.stellarium.org>

The Sky Live: <https://theskylive.com/>

Time and Date: <https://www.timeanddate.com/>

Thank you!