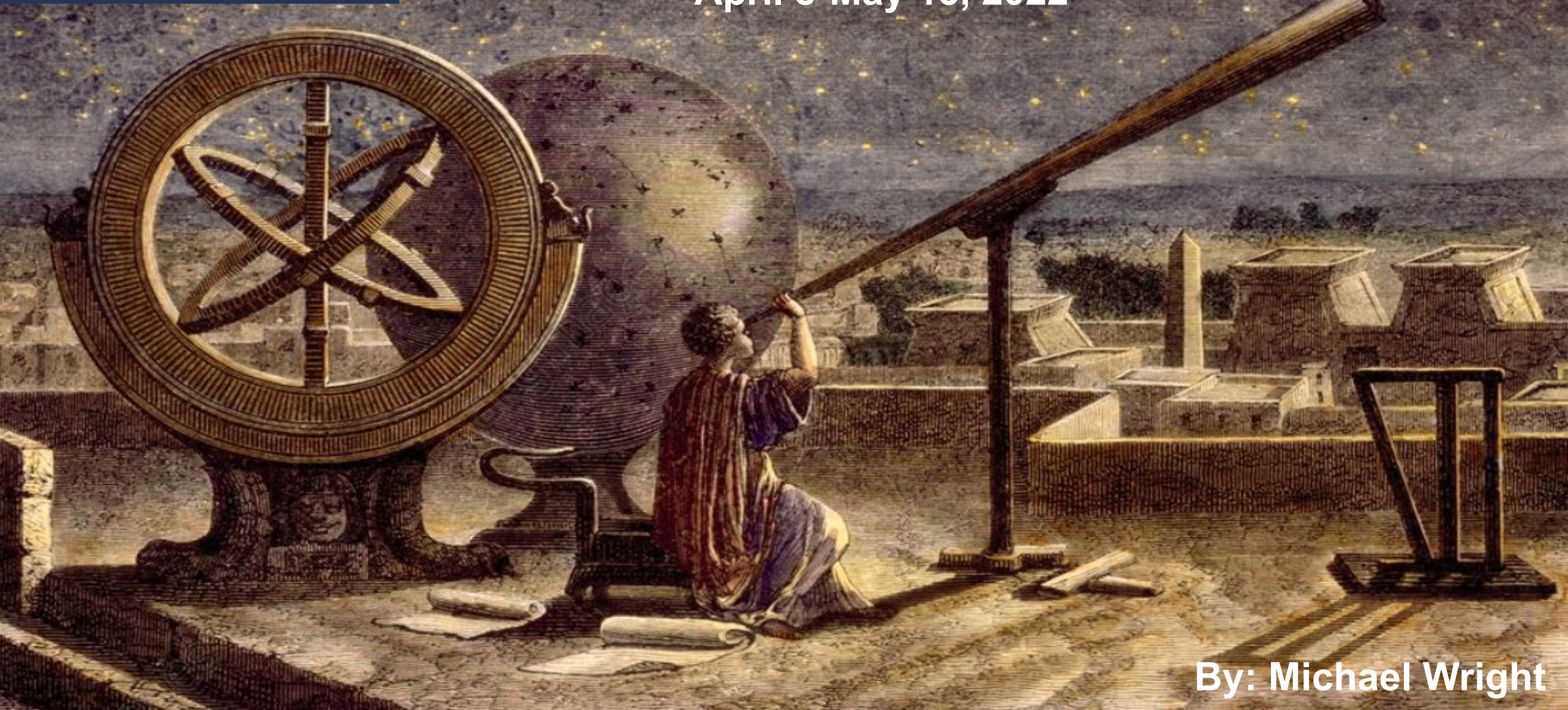


What's Up?

April 8-May 13, 2022



By: Michael Wright

What's Up – Solar System

DATE	SOLAR SYSTEM SKY EVENTS
Apr. 09	Moon at First Quarter in Gemini
Apr. 12	Jupiter passes 0.1° N of Neptune at 4pm EDT (challenging telescopic view in morning sky!)
Apr. 16	Full moon in Virgo - The Full Pink Moon
Apr. 18	Mercury 2° N of Uranus at 9am EDT (challenging telescopic view in evening sky!)
Apr. 22	Lyrid meteor shower peaks
Apr. 23	Moon at Last Quarter in Sagittarius
Apr. 25	Saturn and Mars near Moon in morning sky (nice sight!)
Apr. 27	Venus and Jupiter less than 5° N of Moon (nice sight!)
Apr. 27	Venus 0.01° S of Neptune at 3pm EDT (challenging telescopic view in morning sky)
Apr. 29	Mercury 1.4° S of Pleiades at 3pm EDT (tough telescopic sight in evening sky, low to horizon)
Apr. 30	New Moon in Aries (partial solar eclipse for Southern Hemisphere at 20:28 UTC)

Morning Sky

Venus - AQR

Mars – AQR

Jupiter – AQR

Saturn - CAP

Most of the Night

Neptune - AQR

Vesta – CAP

Juno - AQR

Evening Sky

Ceres - TAU

Mercury - ARI/TAU

Uranus – ARI

Planet
anner

Grey = Close to Sun

What's Up – Solar System

DATE	SOLAR SYSTEM SKY EVENTS
May 02	Moon and Mercury 1.8° conjunction at 10am EDT
May 04	Ceres 5°W of Moon at 9:30pm EDT (cool binocular challenge in evening sky!)
May 06	Vesta and Saturn conjunction within 1° (cool telescopic view in morning sky!)
May 06	Eta Aquarid meteor shower peaks (best seen in morning skies)
May 09	First Quarter Moon in Leo

Morning Sky

Venus - AQR
Mars – AQR
Jupiter – AQR
Saturn - CAP

Most of the Night

Neptune - AQR
Vesta – CAP
Juno - AQR

Evening Sky

Ceres - TAU
Mercury - TAU

Planet
anner

Grey = Close to Sun



ROYAL
ASTRONOMICAL
SOCIETY
OF CANADA
KW Centre



What's Up – Lunar Librations



Southern Libration - April 12



Northern Libration - April 24

Nice Sight No. 1

Line of Planets With Moon

Mon. Apr. 25

5:30 AM

View to SE

Sunrise: 6:24 AM



Graphic created with Stellarium

Nice Sight No. 2

Moon Venus & Jupiter

Wed. Apr. 27

6:00 AM

View to E-SE

Sunrise: 6:21 AM



Graphic created with Stellarium

Binoc Challenge

Moon & Ceres

Wed. May. 4

9:30 PM

View to W

Sunset: 8:28 PM



Graphic created with Stellarium

Nice Sight No. 4

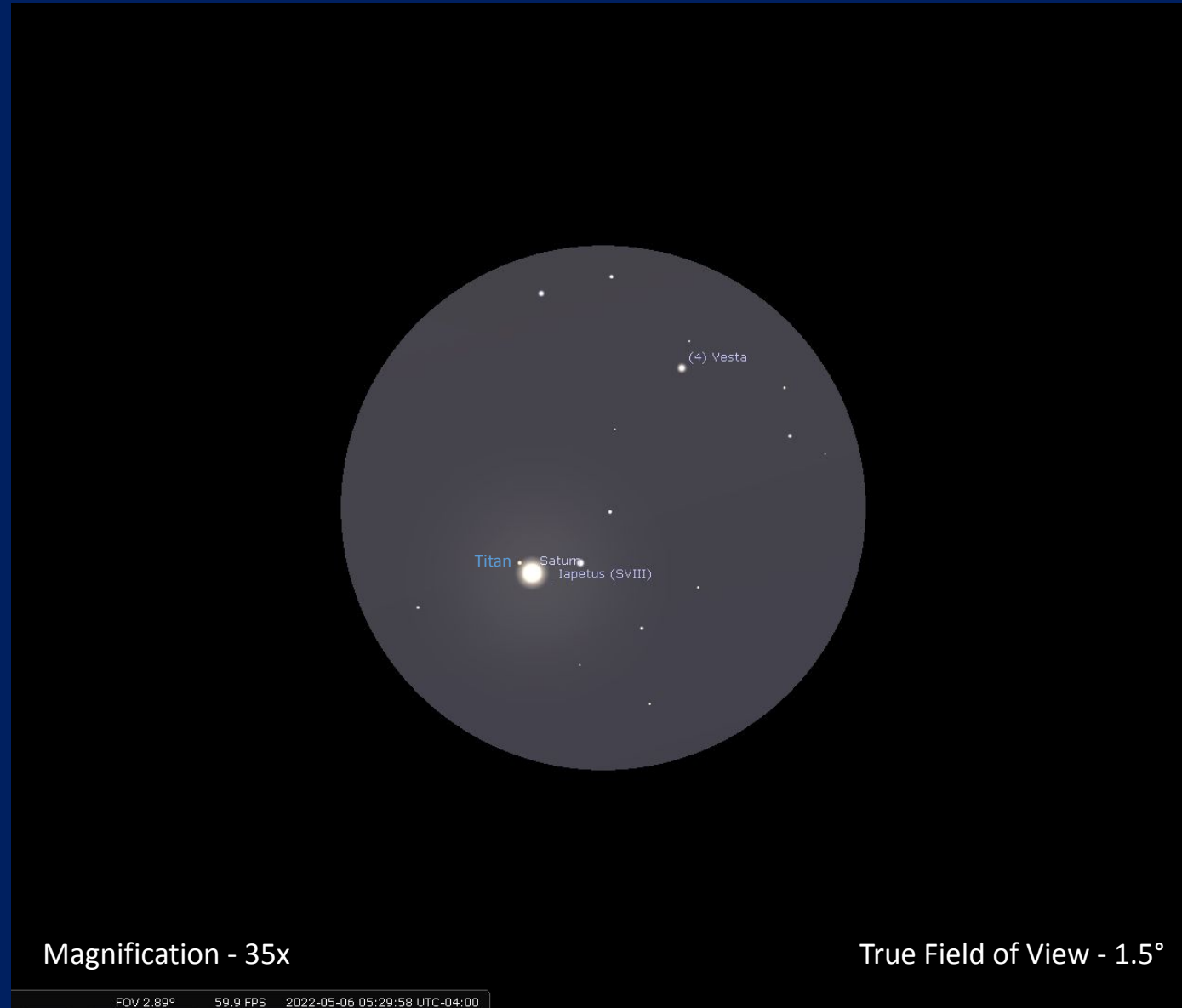
Saturn & Vesta

Fri. May. 6

5:30 AM

View to SE

Sunrise: 6:08 AM



Graphic created with Stellarium

Evening Sky Highlights



SE

SW

S

9:30pm EDT April 23 2022

Facing South

Evening Sky Highlights



9:30pm EDT April 23 2022

Facing Overhead

April Deep Sky Highlights

Galaxy Season Begins!

* = RASC Finest NGC

Catalogue #	Type	Cons	Details	Difficulty
M44	ocl	Cnc	Beehive Cluster - bright but coarse, use low power or binocs	easy
M67	ocl	Cnc	King Cobra Cluster - one of the most ancient open clusters	easy
NGC2683*	g(Sb)	Lyn	UFO Galaxy - beautiful edge-on spiral in Lynx near Sigma Cancri	moderate
C48/NGC2775	g(SA(r)ab)	Cnc	Star-like core surrounded by oval haze	moderate
NGC2903*	g(SABbc)	Leo	Surprisingly not a Messier - bright & beautiful, look for HII regions	easy
M65	g(SAB(rs)a)	Leo	Look for dust lanes in disk and diamond shaped nuclear region	easy
M66	g(SAB(s)b)	Leo	Soft and graceful details with bright, star-like nucleus	easy
NGC3629*	g(SbP)	Leo	Hamburger Galaxy - edge on with dust lane	moderate
M95	g(SB(r)b)	Leo	Broken-ring barred spiral - looks a little like Darth Vader's TIE fighter	moderate
M96	g(SAB(rs)ab)	Leo	Condensed elliptical core, subtle bar, arc of light SW of nucleus	moderate
M105	g(E1)	Leo	Bright central core, outer halo fades gradually	moderate
NGC3384*	g(SB0)	Leo	Bright round core, ill defined lens that tapers to points	moderate
NGC3521*	g(SABbc)	Leo	Condensed core surrounded by a mottled lens and fine halo	easy
NGC3607*	g(SA(s)0)	Leo	Intense core surrounded by dim glow, NGC3605 and 3608 nearby	moderate
C40/NGC3626	g(S0)	Leo	Sharp nucleus surrounded by lens shaped oval and dim halo	difficult
C53/NGC3115	g(S0)	Sex	7' long spindle with razor sharp tips and a bright nucleus	easy
C59/NGC3242*	pn	Hya	Ghost of Jupiter or CBS Eye Nebula - Jupiter-sized bluish orb	moderate
C7/NGC2403	g(SABcd)	Cam	Fireworks Galaxy - well defined elliptical glow with arcs of light	easy



April Deep Sky Highlights

Galaxy Season Begins!

* = RASC Finest NGC

Catalogue #	Type	Cons	Details	Difficulty
M81	g(SA(s)ab)	UMa	Bode's Galaxy - Stunning spiral with faint outer arms	easy
M82	g(lrrO)	UMa	Cigar Galaxy - complex and irregular mottling in edge on system	easy
M97	pn	UMa	Owl Nebula - ghostly orb, look for the 'eyes', try UHC/OIII filters	moderate
M108	g(SB(s)cd)	UMa	Surfboard Galaxy - wrinkled texture with dust lanes	moderate
M109	g(SB(rs)bc)	UMa	Near Phecda, can get caught in glare, well-defined core, faint details	difficult
M40	ds	UMa	Two stars, separation of 50"	easy
M101	g(SAB(rs)cd)	UMa	Pinwheel Galaxy - spiral evident in 8" scopes, need dark skies	moderate
NGC2841*	g(SAb)	UMa	Tiger's Eye Galaxy - very bright core, milky smooth disk	moderate
NGC3079*	g(SBc)	UMa	Phantom Frisbee Galaxy - 5' long streak with mottled nucleus	difficult
NGC3184*	g(SABc)	UMa	Little Pinwheel Galaxy - large, diffuse face on spiral	moderate
NGC3877*	g(SAc)	UMa	Edge on, same field as Chi Ursae Majoris, 4'-long needle of light	difficult
NGC3941*	g(SB0)	UMa	Small, condensed 2'-wide circular glow, stellar nucleus	moderate
NGC4026*	g(S0)	UMa	Tack-sharp core in centre of extended 4' long faint needle	difficult
NGC4088*	g(SABbc)	UMa	Nearly edge on diffuse, difficult glow - light pollution wipes it out	difficult
NGC4157*	g(SABb)	UMa	Thin sliver, very difficult for small telescopes	difficult
NGC4605*	g(SBc pec)	UMa	Faberge Egg Galaxy - elongated, beaded texture with warped bar	moderate
NGC3003*	g(SBc?)	LMi	Faint elongated streak, need moderate to large telescope	difficult
NGC3344*	g(SABbc)	LMi	Sliced Onion Galaxy - face on spiral, milky haze surrounding core	moderate
NGC3432*	g(SB(s)m)	LMi	Knitting Needle Galaxy - slender 5' streak of light with mottled core	difficult



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!