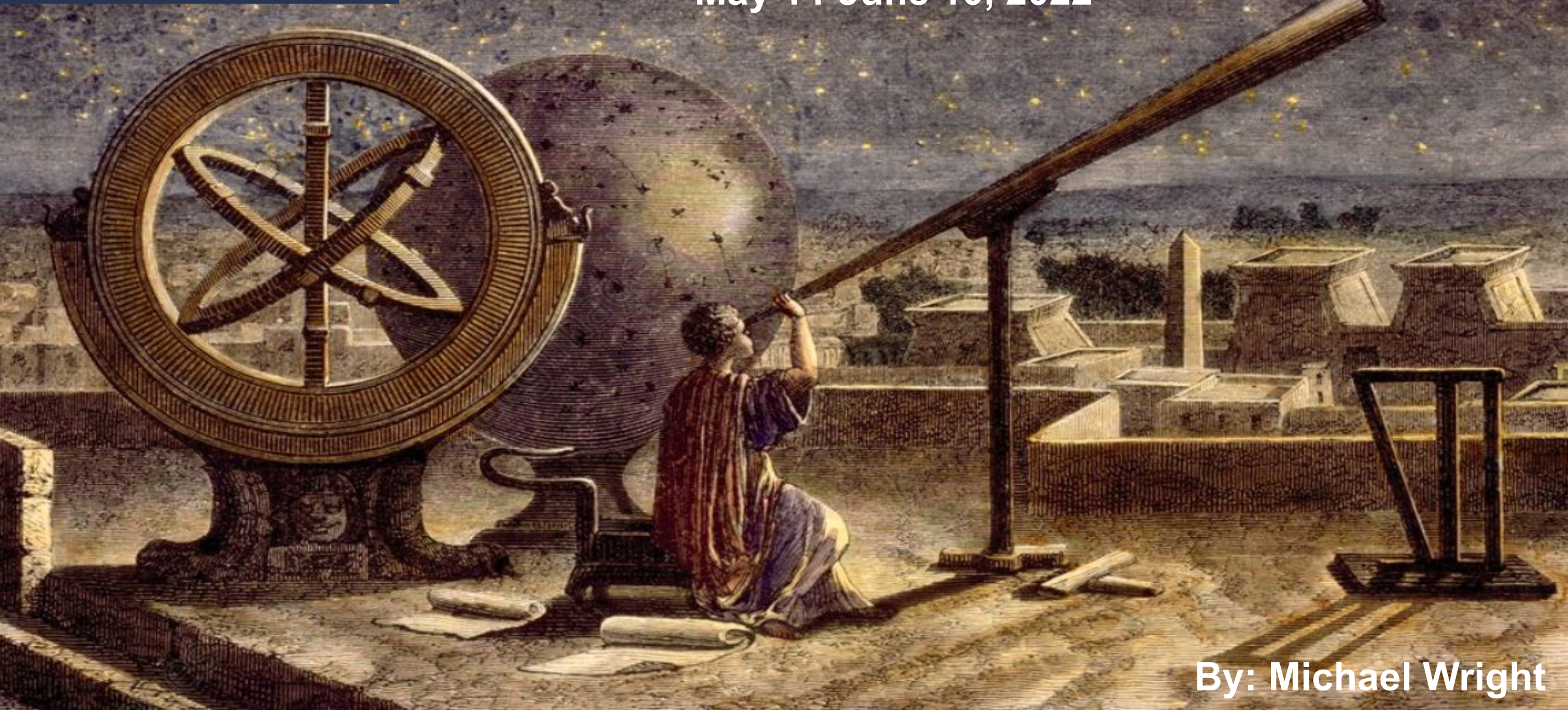


What's Up?

May 14-June 10, 2022



By: Michael Wright

What's Up – Solar System

| DATE | SOLAR SYSTEM SKY EVENTS |
|---------|---|
| May 15 | Full Moon in Scorpius - Normally Flower Moon, but this year a Blood Moon! |
| May 15 | Total Lunar Eclipse - Penumbra Begins 9:32 PM EDT, Total Eclipse Begins at 11:38 PM EDT |
| May 18 | Mars passes 0.6°S of Neptune at 11pm May 17, still very close next morning |
| May 22 | Moon passes 4°S of Saturn at 1am EDT, still very close at 5am EDT (nice sight #1) |
| May 22 | Moon at Last Quarter in Aquarius |
| May 25 | Moon, Mars and Jupiter within 4° in morning sky (nice sight #2) |
| May 28 | Moon passes very close to Venus in morning sky |
| May 29 | Mars and Jupiter less than 1° apart in morning sky (nice telescopic sight #3!) |
| May 30 | New Moon in Taurus |
| Jun. 01 | Moon occults Ceres at 5pm EDT (in daylight, sadly), remains close in evening sky |
| Jun. 07 | Moon at First Quarter |

Morning Sky

Mars – AQR Uranus - ARI
 Venus - PSC Neptune - AQR
 Saturn - CAP Vesta – AQR
 Jupiter – PSC Juno - AQR

Most of the Night

Evening Sky

Mercury - TAU
 Ceres - GEM

Planet
anner

Grey = Close to Sun

What's Up – Lunar Librations



Northern Libration - May 21



Southern Libration - June 8



Nice Sight No. 1

Line of Planets With Moon

Sun. May 22

5:00 AM

View to SE

Sunrise: 5:51 AM



Graphic created with Stellarium



Nice Sight No. 2

Moon Mars & Jupiter

Wed. May 25

5:00 AM

View to E-SE

Sunrise: 5:48 AM



Graphic created with Stellarium

Nice Sight No. 3

Mars & Jupiter

Sun. May 29

5:00 AM

View to SE

Sunrise: 5:46 AM



Graphic created with Stellarium

Evening Sky Highlights



The Virgo Cluster
NGC 4762

M49
M61
NGC 4517

C52

M104

M68

M83

Corvus
NGC 4361

The Antennae

Leo

Sextans

Hydra

Crater

Libra

Virgo

Spica

Antlia

SE

SW

S

10pm EDT May 22 2022

Facing South

Evening Sky Highlights: The Virgo Cluster



NGC4651

M85

M100

M91

M88

M98

Markarian's Chain

M90

M86

NGC4216

M84

M89

NGC4388

M60

M59

M58

M87

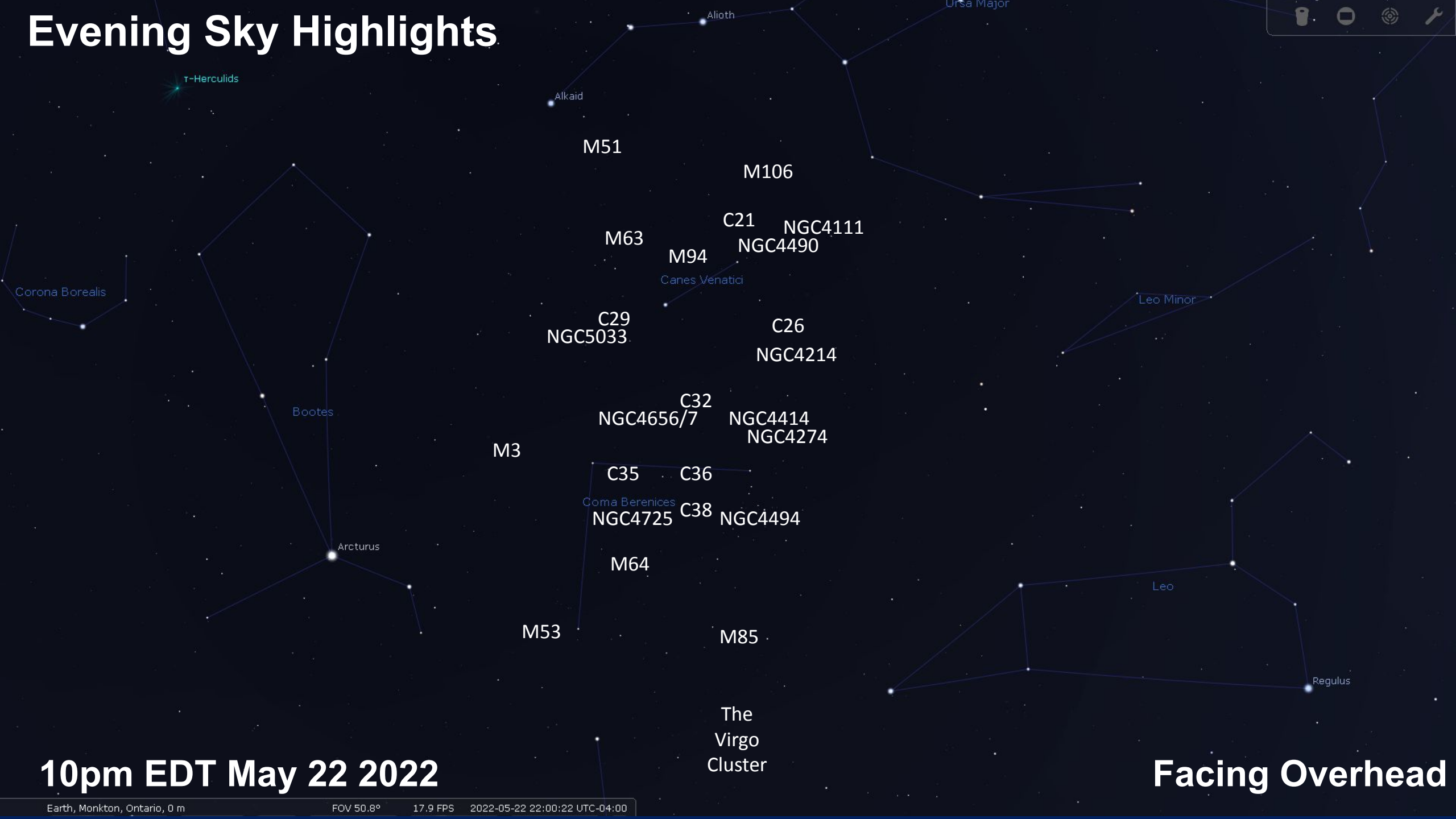
NGC4567
&4568

NGC4435
&4438

10pm EDT May 22 2022

Facing South

Evening Sky Highlights



10pm EDT May 22 2022

Facing Overhead



May Deep Sky Highlights

Galaxy Season Continues!

* = RASC Finest NGC

| Catalogue # | Type | Cons | Details | Difficulty |
|--------------|--------------|------|---|------------|
| M83 | g(SAB(s)c) | Hya | Southern Pinwheel - bright and beautiful but low in southern sky | moderate |
| M68 | gcl | Hya | Very compact, highly mottled globular in a cup-like asterism | moderate |
| C60/NGC4038* | g(IrrBPm) | Crv | Antennae - northwestern component - tough in small scopes | difficult |
| C61/NGC4039* | g(IrrPm) | Crv | Antennae - southwestern component - tough in small scopes | difficult |
| NGC4361* | pn | Crv | Lawn Sprinkler Nebula - look for spiral pattern in the circular glow | difficult |
| M104 | g(SA(s)a) | Vir | Sombrero Galaxy - look for prominent dust lane | easy |
| C52/NGC4697 | g(E6/S0) | Vir | Dense, fuzzy core surrounded by fainter circular glow and oval halo | moderate |
| M53 | gcl | Com | 13' irregularly round globular; some see tangerine hue | moderate |
| M64 | g(RSA(rs)ab) | Com | Black Eye Galaxy - elegant milky oval, structure/dust in large scopes | easy |
| M85 | g(SA0+pec) | Com | Glowing oval mass with distinct core, NGC4394 to the northeast | moderate |
| C38/NGC4565* | g(Sb) | Com | Needle/UFO Galaxy - thin edge on galaxy with dust lane in the bulge | moderate |
| M3 | gcl | CVn | Jellyfish Cluster - look for small dark spots in nucleus and peach tint | easy |
| C32/NGC4631* | g(SBd) | CVn | Whale Galaxy - mottled edge-on; look for nearby Hockey Stick Galaxy | moderate |
| C26/NGC4244* | g(Scd) | CVn | Silver Needle Galaxy - edge on with elongated nucleus | moderate |
| M94 | g(RSA(r)ab) | CVn | Croc's Eye Galaxy - look for ring surrounding the nucleus | easy |
| C21/NGC4449* | g(IrrBm) | CVn | Box Galaxy - rectangular glow with dappled texture | moderate |
| M63 | g(SAbc) | CVn | Sunflower Galaxy - mottled outer disc with tack-sharp core | easy |
| M51 | g(SAbc) | CVn | Whirlpool Galaxy - beautiful spiral interacting with NGC5195 | easy |
| M106 | g(SAB(s)bc) | CVn | S-shaped main arms with bright core | moderate |



May Deep Sky Highlights

The Virgo Cluster

* = RASC Finest NGC

| Catalogue # | Type | Cons | Details | Difficulty |
|-------------|--------------|------|--|------------|
| M61 | g(SAB(rs)bc) | Vir | Swelling Spiral - face on spiral, structure obvious in larger scopes | moderate |
| M49 | g(E2) | Vir | Virgo B - Tight core surrounded by diffuse halo, nearby star to E | easy |
| M59 | g(E5) | Vir | Sharp, star-like nucleus surrounded by mottled halo | moderate |
| M60 | g(E2) | Vir | Stellar core, note faint tiny companion NGC4647 to NW | moderate |
| M58 | g(SAB(rs)b) | Vir | Stellar nucleus, mottled halo, structure comes with large aperture | moderate |
| NGC4567&68* | g(SAabc) | Vir | The Twins - Interesting pair of interacting galaxies | difficult |
| M89 | g(E0-1) | Vir | Sharp nucleus surrounded by misty oval glow | moderate |
| M90 | g(SAB(rs)ab) | Vir | Elongated NE-SW, but bar across nucleus N-S, outer arms faint | moderate |
| M91 | g(SB(rs)b) | Com | Central bar, knots and hazy arcs outline the round halo | difficult |
| M88 | g(SA(rs)b) | Com | Spindle-shaped bulge, hazy outer regions with hints of structure | moderate |
| M87 | g(cD Pec) | Vir | Virgo A - hazy orb that gradually brightens to star-like point | easy |
| NGC4435&38* | g(SA(s)0/a) | Vir | The Eyes - 35 stellar with 1' halo, 38 a larger fuzzy 2' oval | difficult |
| M86 | g(E3) | Vir | Stellar nucleus and tightly packed core more obvious than M84 | easy |
| NGC4388 | g(SAb) | Vir | Near edge-on system south of M86 and M84 | moderate |
| M84 | g(E1) | Vir | Soft glowing disk with condensed centre giving way to diffuse halo | easy |
| NGC4216* | g(SABb) | Vir | Silver Streak - 5' long silver streak, dust lane in large aperture | moderate |
| M98 | g(SAB(s)ab) | Vir | Highly elongated, fan of brightness SW of nucleus, hints of spiral | moderate |
| M99 | g(SA(s)c) | Com | Coma Pinwheel - bead-like nucleus in round glow, hint of arms | difficult |
| M100 | g(SAB(s)bc) | Com | Mirror of M99 - pale orb with faint traces of ghostly arms | 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!