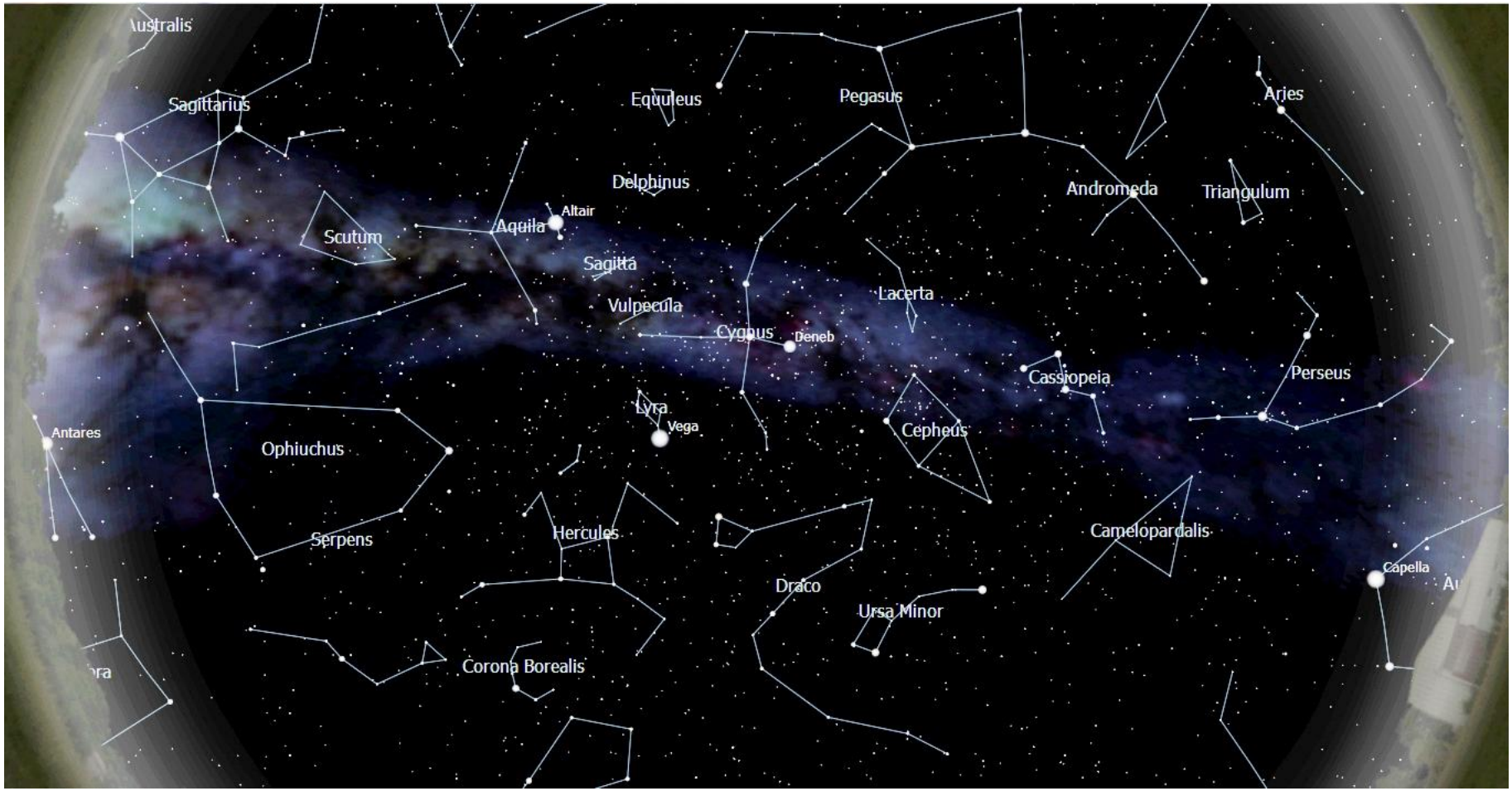
May 11 Sky notes

The Summer Milky Way – May-Aug 2011



Milky Way is best seen during the summer months passing through the Constellations:

Perseus (NE) – Cassiopeia - Cepheus – Cygnus –Aquila – Sagittarius(centre of Milky Way)

May 11 Sky notes

View facing North 00:02am on June 1st 2011 (62deg Field of View)

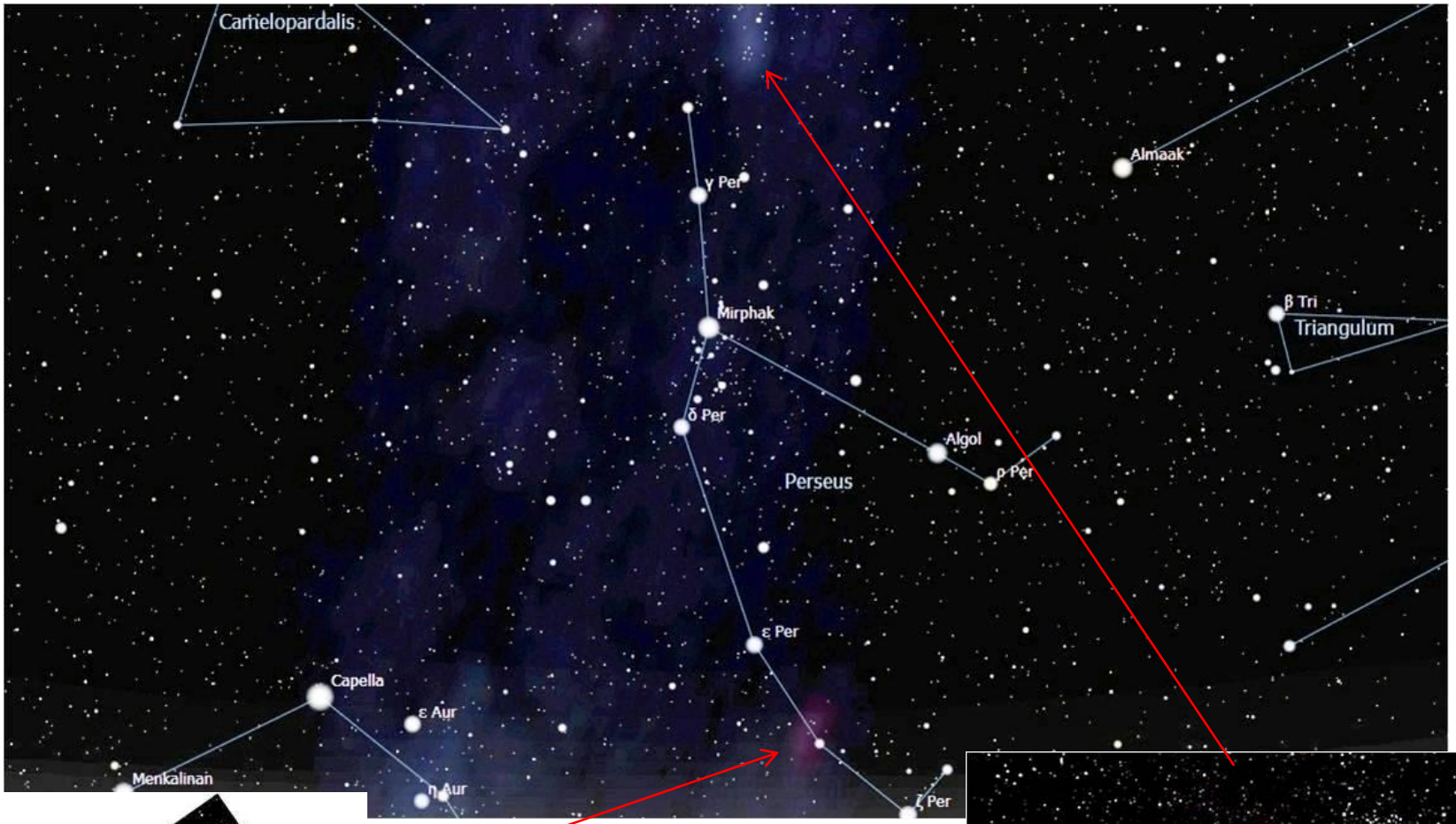
M52(open galactic cluster) – distance: 5000 lt yrs

Double Cluster:
distance: 7100 lt yrs

NGC457(Open Galactic Cluster)
Distance: 9000 lt yrs

NGC7789(Open Galactic Cluster)
Distance: 8000 lt yrs

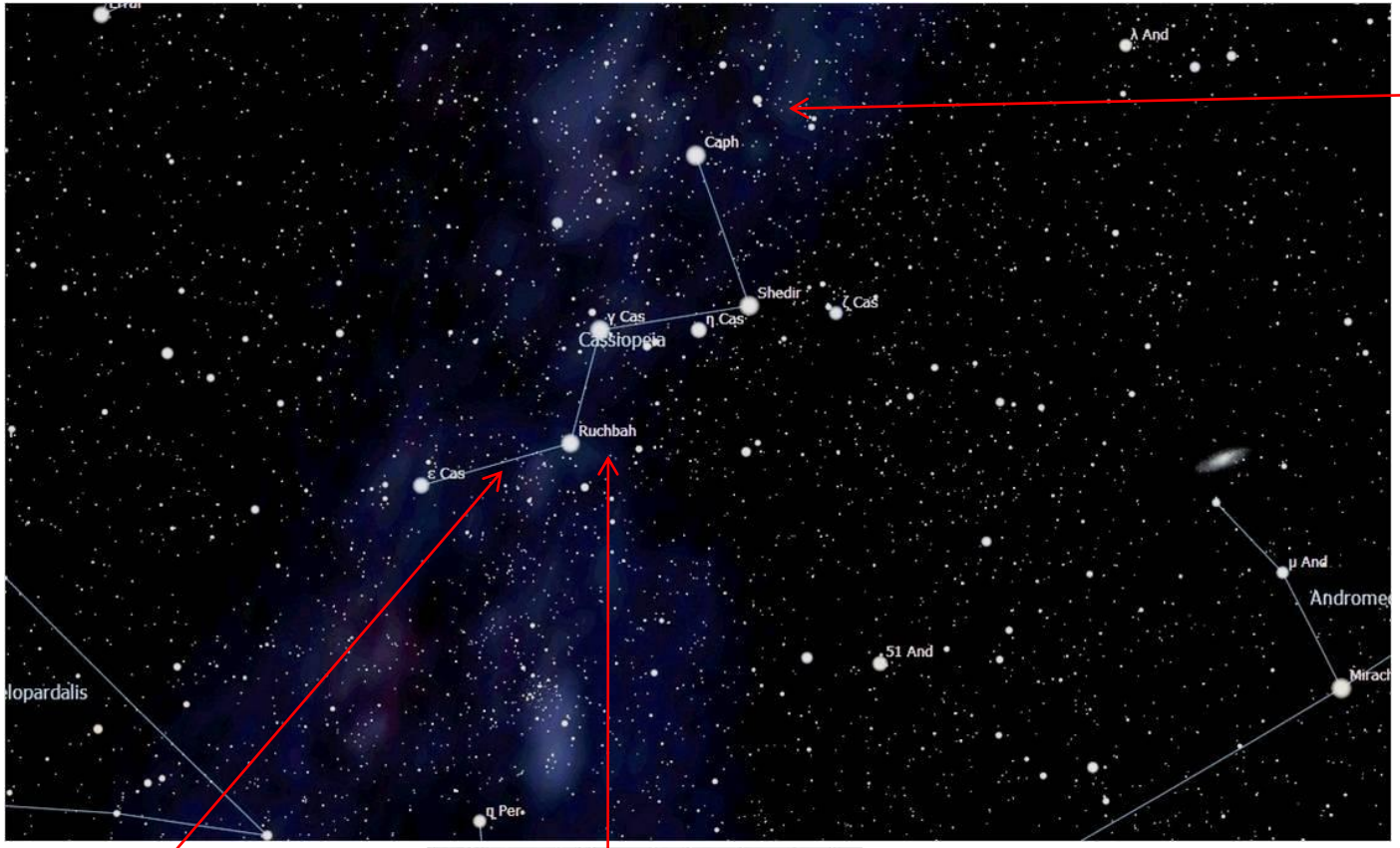
Perseus



California nebula
NGC1499
Distance: 1000lt yrs
HII region illuminated
By run-away star Xi Persei

Double Cluster

Cassiopeia

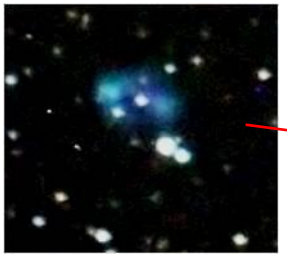


M103(8500 lt yrs away)

NGC457 (Owl Cluster) -bright Stars Phi Cass & HD7902

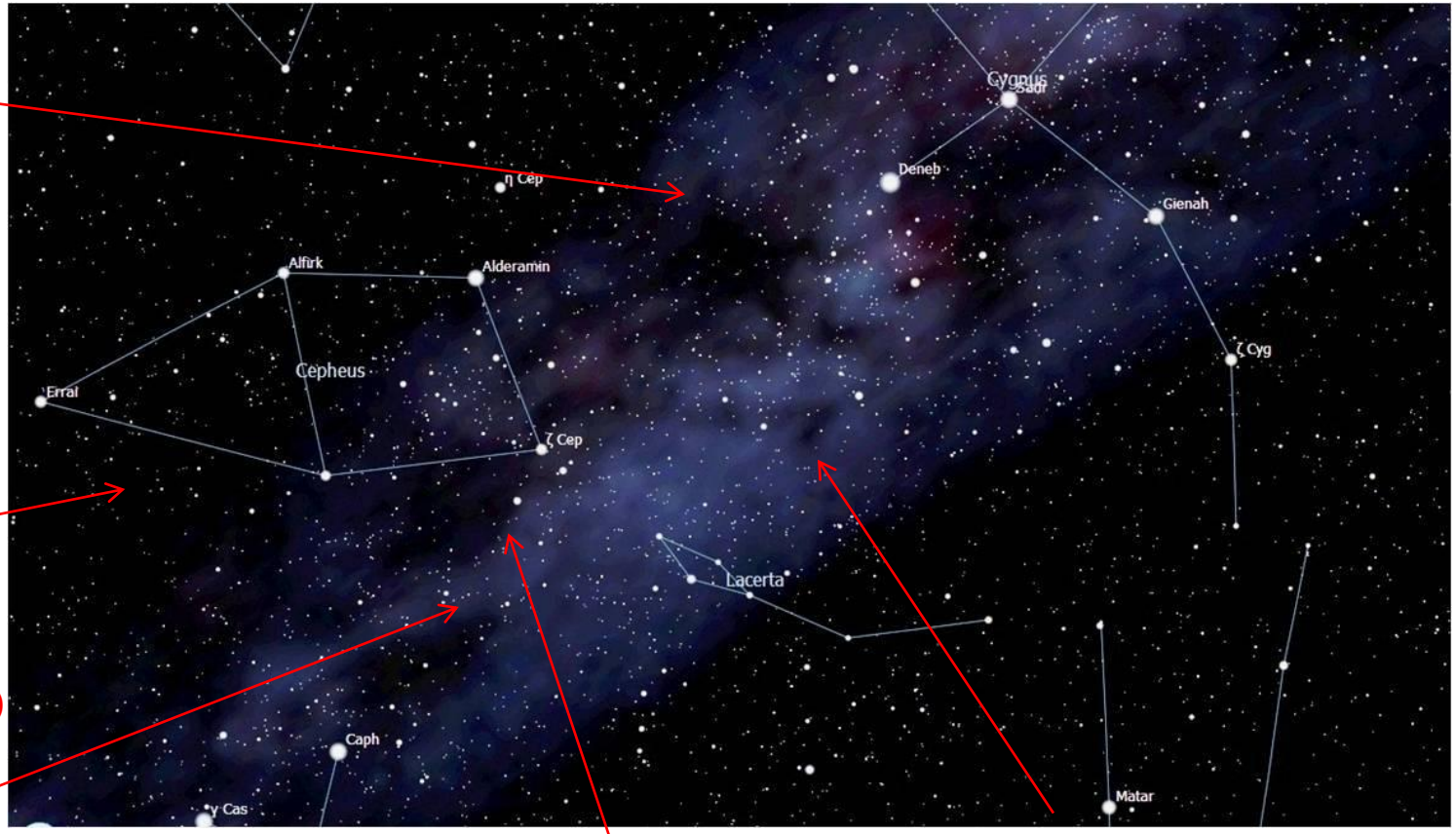
NGC7789 (1000 stars within 40 light yrs)

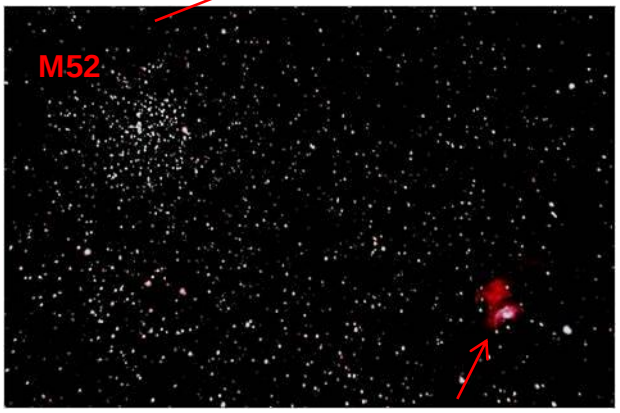
Cepheus



NGC7008
Planetary Neb
(2800 lt yrs distant)

NGC40
(Bow Tie Planetary Neb)
Central star – 50,000K
3500 lt yrs away

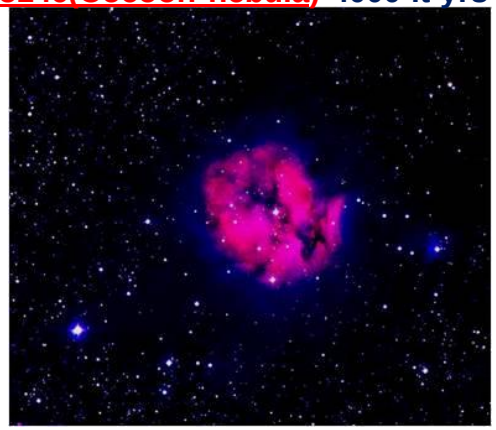




Bubble nebula – 11,000 yrs away –interstellar bubble (10 lt yrs size) – surrounding central Wolf Rayet Star

NGC7380
(7000 lt yrs)
Star cluster
Embedded
In nebula-
110 lt yrs in size

IC5146(Cocoon nebula) 4000 lt yrs away



Emission/Reflection nebula – surrounded by dark neb

View facing East 00:02am on Jun 1st 2011 (68deg Field of View)

North American Neb (NGC7000) – faint HII region
4x size of full moon – 2200 lt yrs away

Butterfly Neb- close to Gamma Cygni
2200 lt yrs away

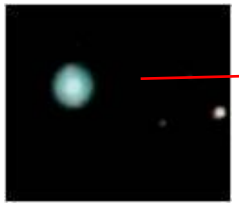
Ring Planetary Neb (M57)- distance of 2300 lt yrs

Veil Nebula(NGC6960)
Faint Supernova Remnant
Exploded about 5000 yrs ago
Remnant covers 3deg -1470 lt yrs away

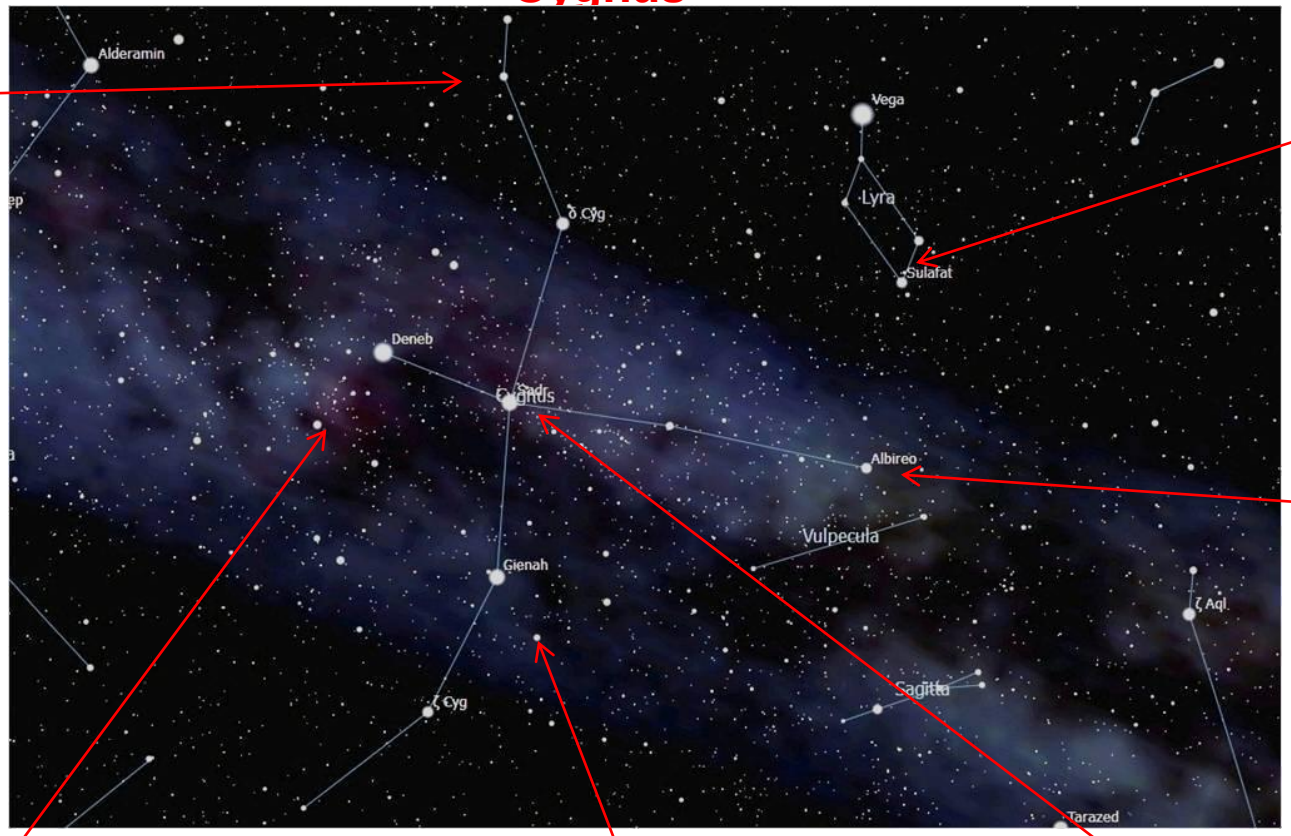
M27 (Dumbbell Nebula)
Planetary Nebula (1250 lt yrs away)
One of the brightest PNs

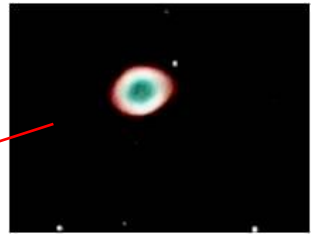
Wild duck open cluster M11 (6000 lt yrs away)
Rich and bright open cluster

Cygnus



NGC6826 (Blinking Planetary Nebula)
2000 lt yrs away





M57 (Ring Planetary Nebula)

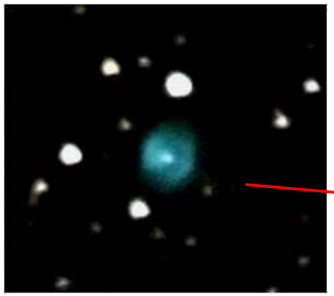
Albireo

NGC7000 (N.American Neb)

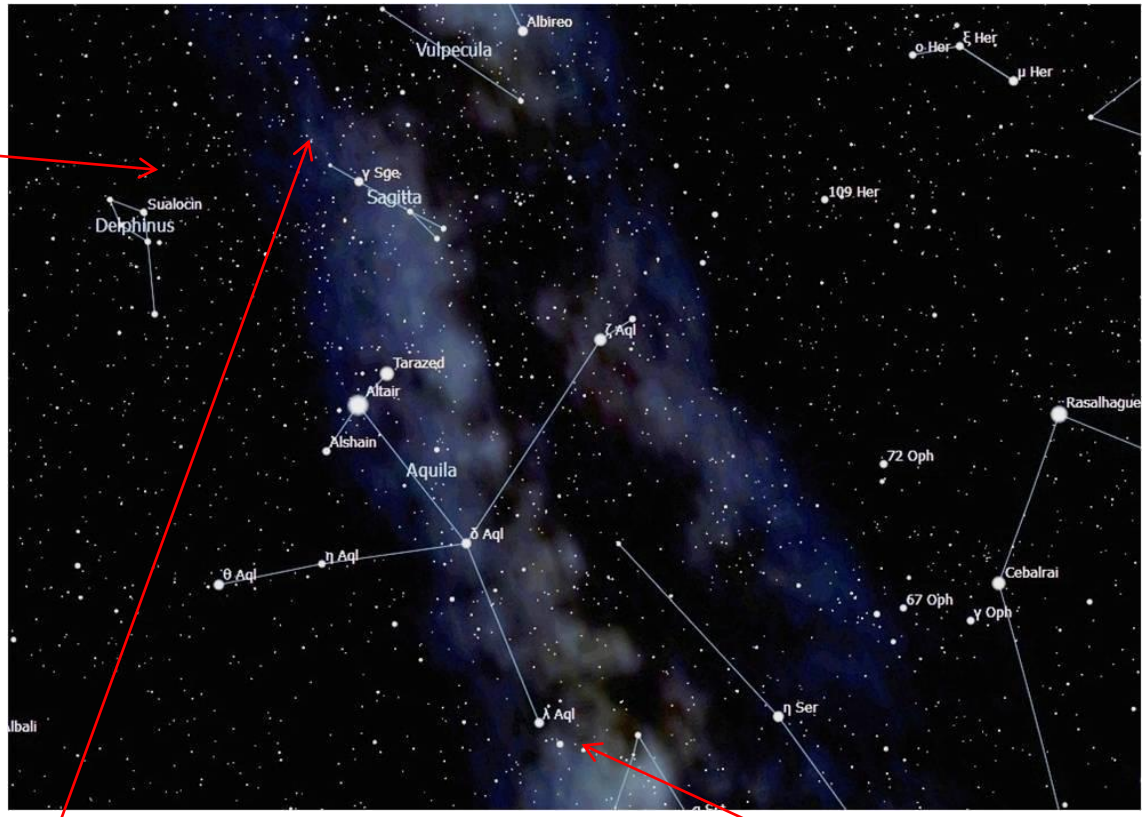
NGC6960(Veil nebula)

IC1318(Butterfly neb)

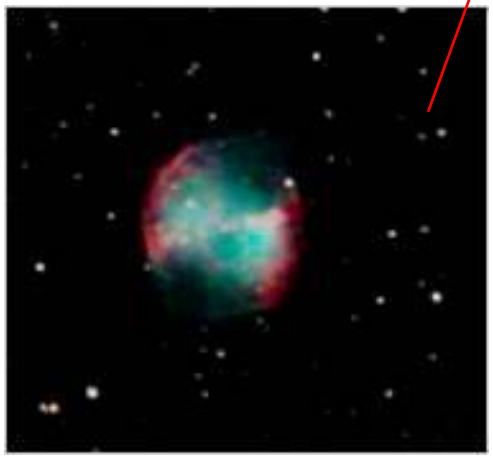
Aquila



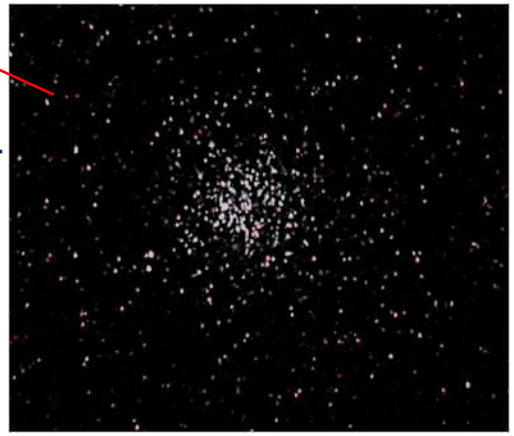
NGC6905
Blue Flash PN
4700 lt yrs away



M27(Dumbbell PN)



M11
Wild Duck
Open Cluster



View facing South 00:02am on Jun 1st 2011 (68deg Field of View)

M16 (Eagle Emission Neb) 7000 lt yrs away

M17(Omega Emission Neb) 5000 lt yrs away

M10(Globular cluster) 13400 lt yrs away

M12(Globular Cluster) 17600 lt yrs away

M5 (Globular Cluster) 23000 lt yrs away

Globular cluster M22 (10000 lt yrs away)

Globular Cluster M28 (18600 lt yrs away)

M8(Lagoon Emission Neb) 5200 lt yrs away

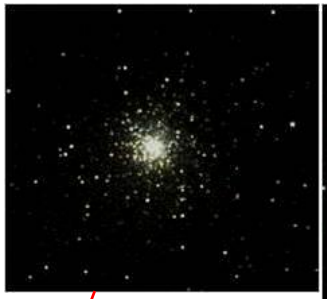
M20 (Triffid Emission Neb) 5200 lt yrs away

Antares
Class M supergiant star
800 x Rsun
65000 x Lsun(350K surface temp)
600 lt yrs away

M16(Eagle Nebula)

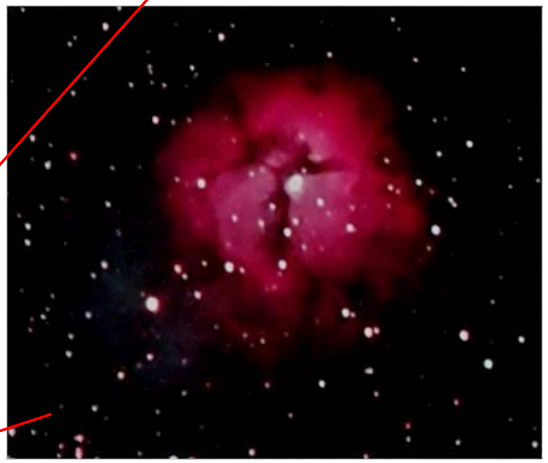
M17(Omega Nebula)

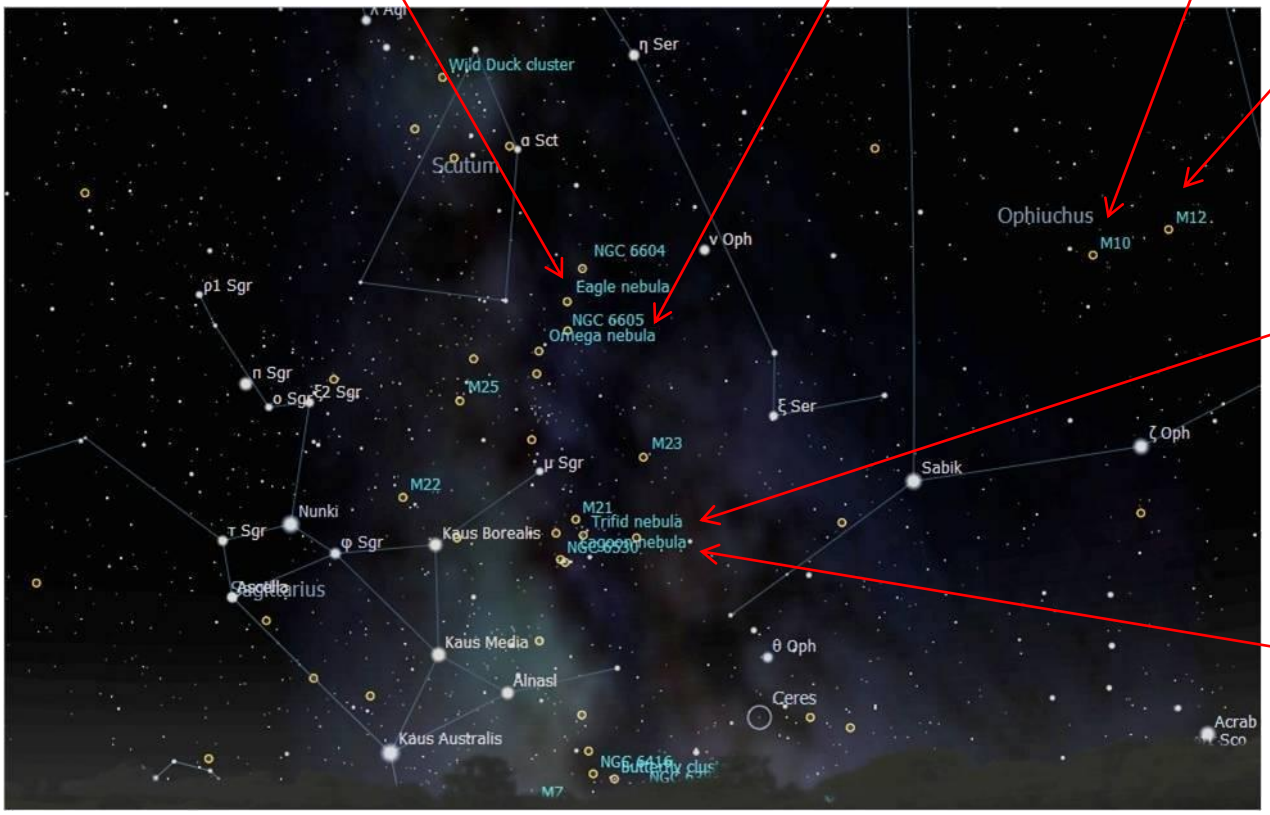
M10



M12

M20 (Triffid Nebula)





Sagittarius

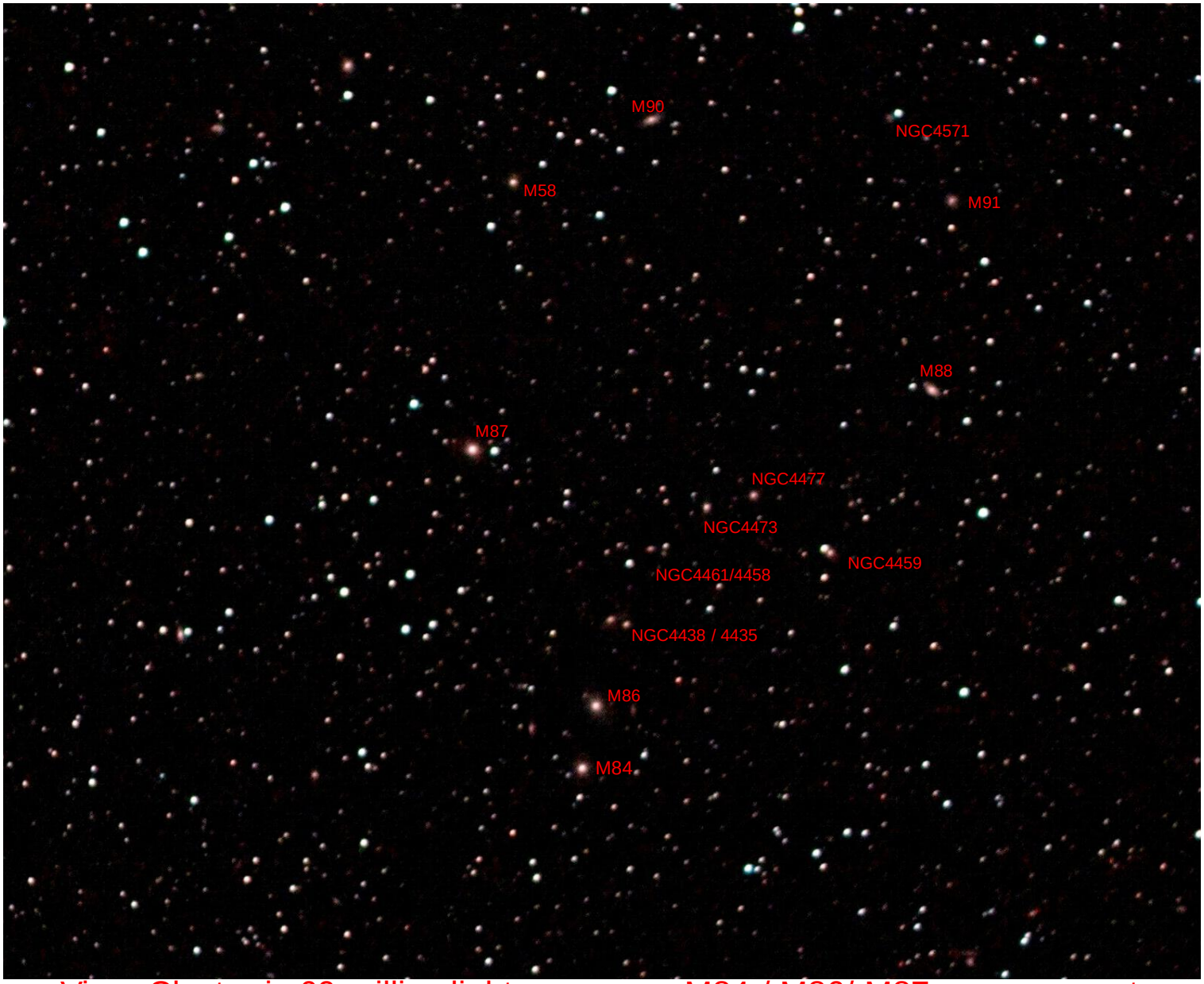
M8 (Lagoon Nebula)

View facing West at 00:02am on Jun 1st 2011 (61deg Field of View)

Virgo Galaxy Cluster Coma Galaxy Cluster (60 million lt yrs away)

Virgo Cluster Region (showing Markarian Chain of Galaxies)

(canon 350D DSLR / 100mm f/3.3 lens) – stack of 3 min exposures



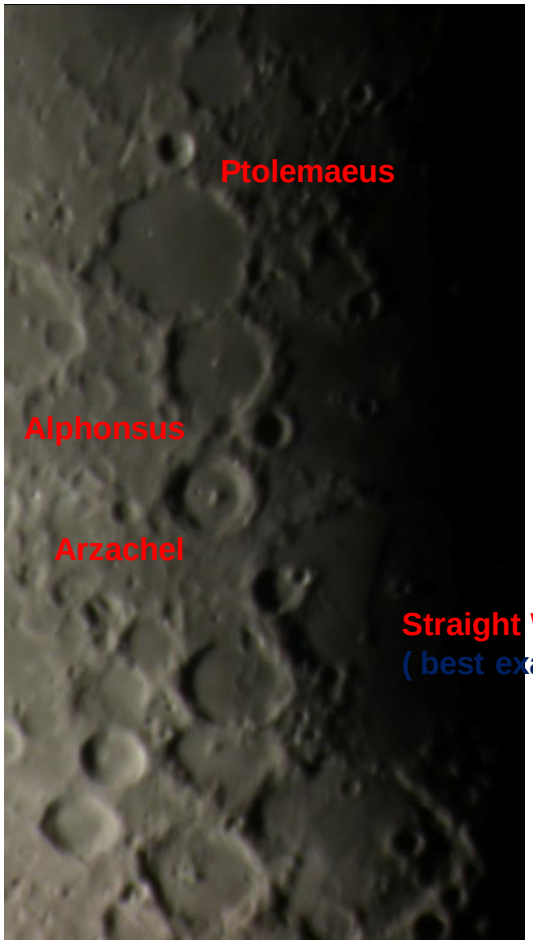
S.Harding (Mar11)

Virgo Cluster is 60 million light yrs away –M84 / M86/ M87 are near centre

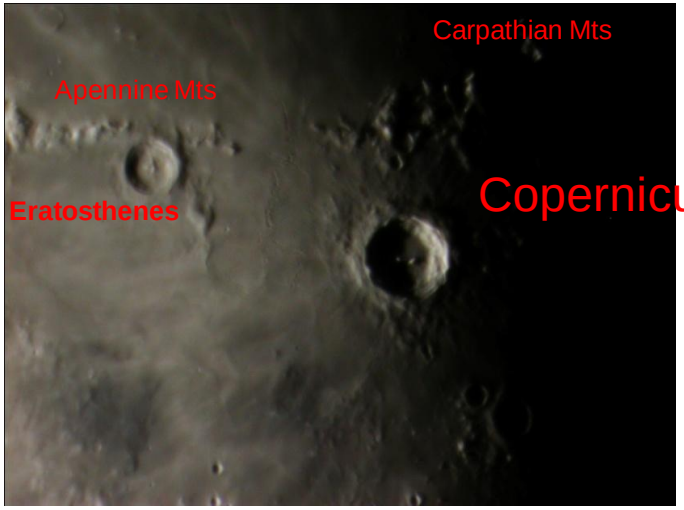
Moon

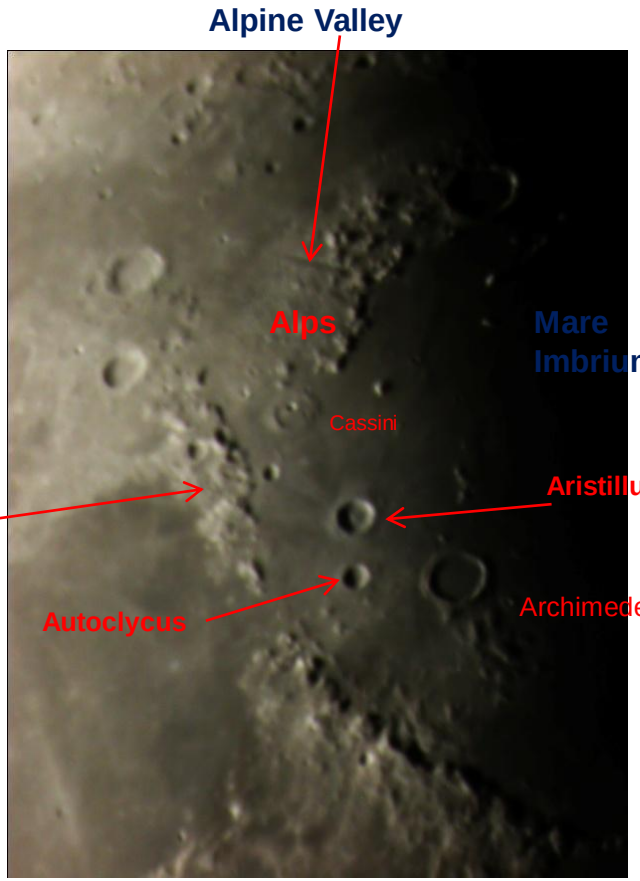
New moon (May 3rd) , First quarter May10th) , Full moon (May 17th) , Last Quarter (May 24th)

Lunar imaging – Apr 11



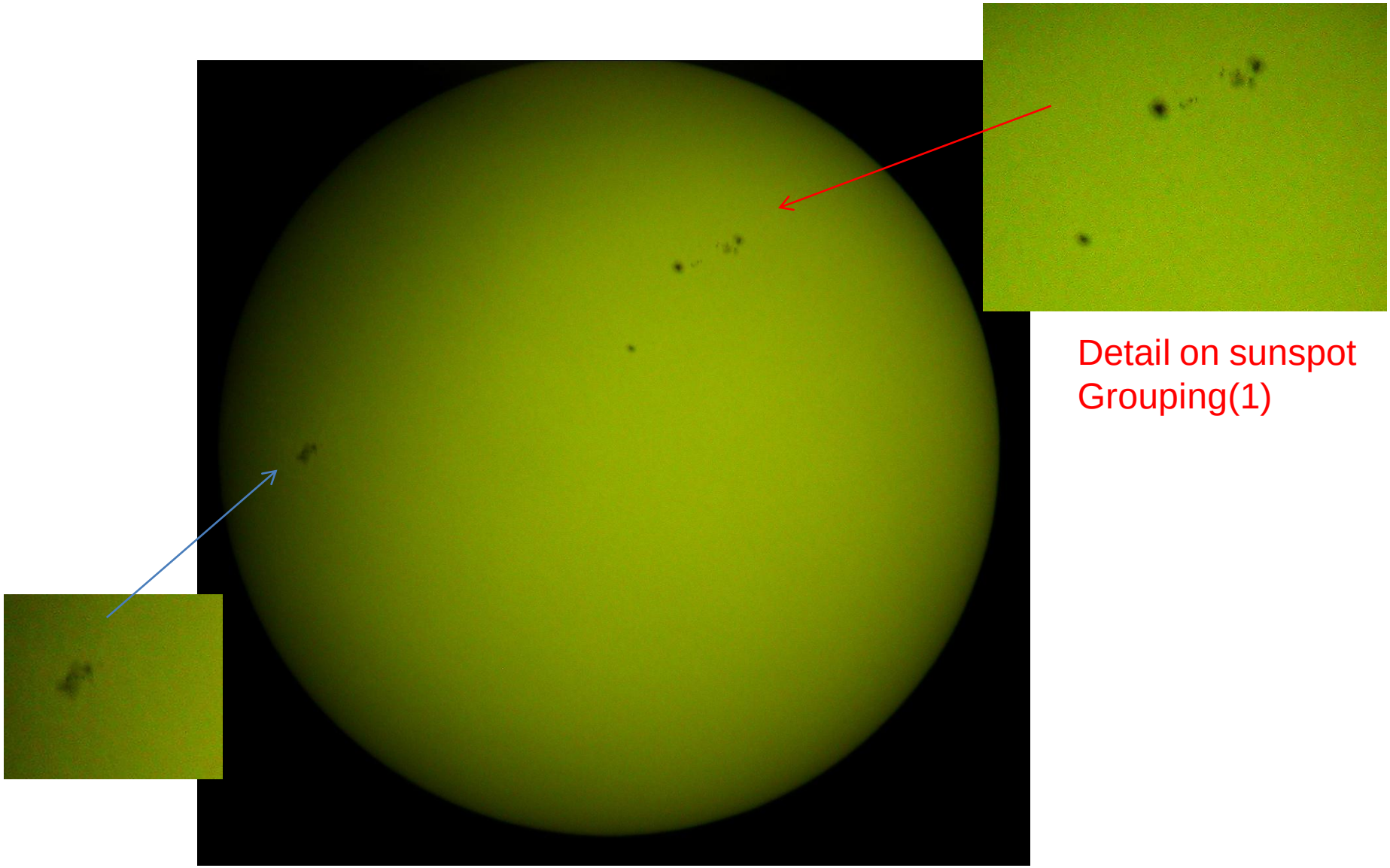
Mare Imbrium





Solar Imaging (Mar – Apr 11)

ETX90 +solar filter / coolpix camera- 40mm eyepiece projection (Apr 17th)



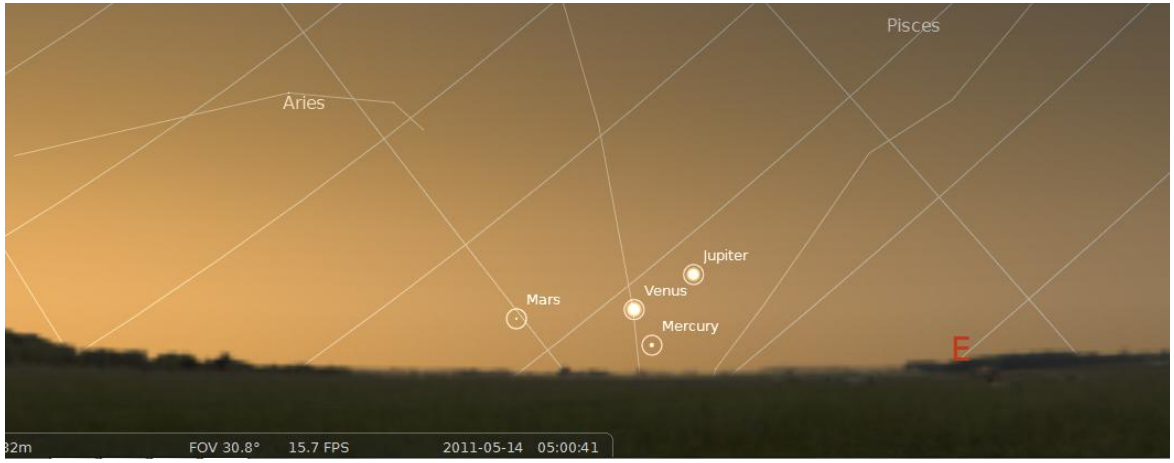
Detail on sunspot Grouping(1)

Increased solar activity in 2011 :

Spotless Days : 2011(1 Day) / 2010 (51 days) / 2009 (260 days)

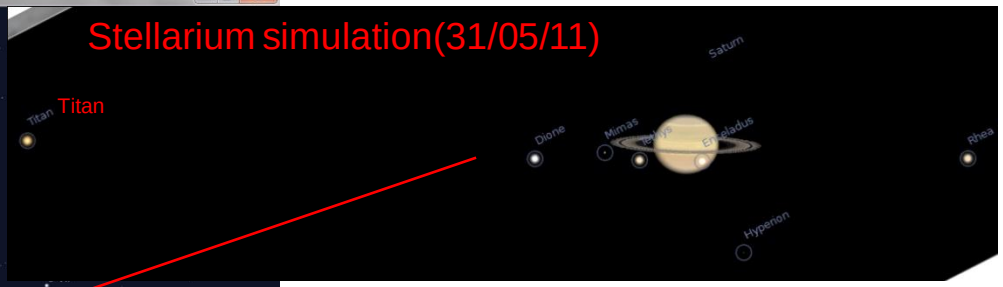
Solar System Sky notes (May 2011)

Clustering of Mercury / Venus / Mars / Jupiter on May 12th – within a 6 deg binocular field



(Planets are within
A 10deg circle from
May 2 – 19th)

Saturn – very close to binary star Gamma Virginis (May 31st)



Magn +0.7
18” in size
Ring tilt of 8deg