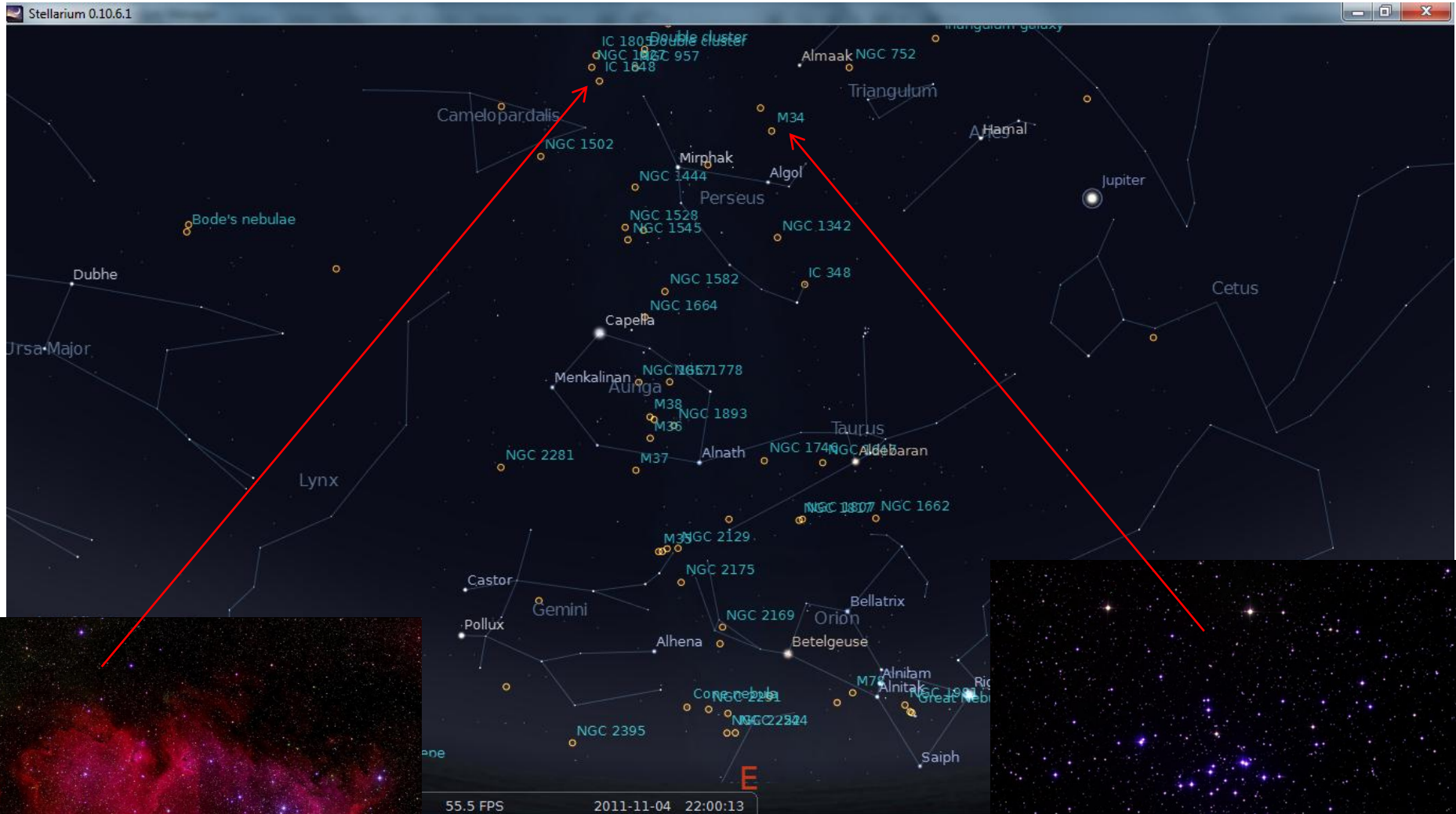


View facing East 10:00pm on Nov 3rd 2011 (80deg Field of View)



IC1848 (Soul) Nebula
Emission Nebula
7500 light years away
Close to the Heart (IC1805)
Nebula

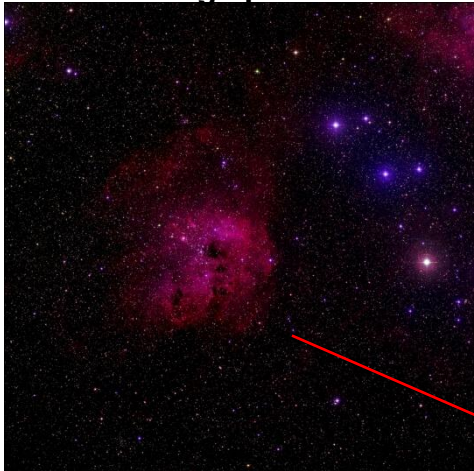


Open cluster M34
1500 light yrs away
(10 light yrs span)
250 million yrs old
Mainly hot blue stars
- Few red giants

Constellation of the Month (Nov 11) : Auriga

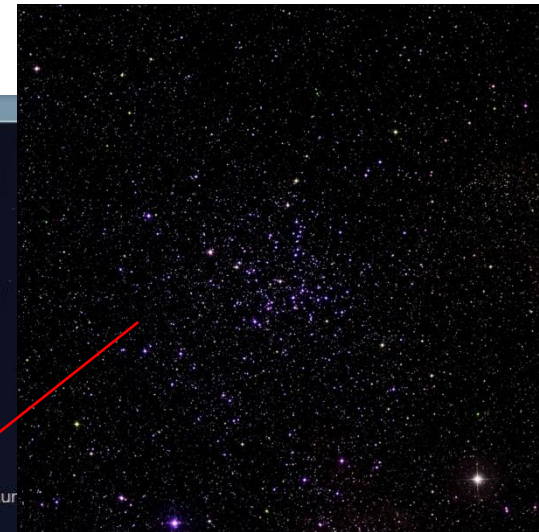
IC410(Emission nebula)

Only 1.5 deg from IC405- faint nebosity
Surrounding open cluster NGC1893



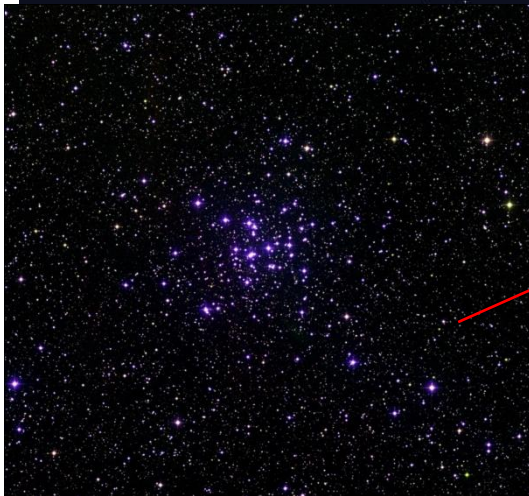
Open cluster M38

4200 light yrs away
25 light yrs span
220 million yrs old



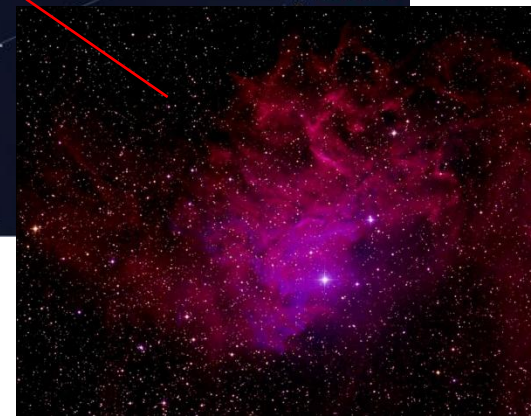
Open Cluster M36

4100 light yrs away
14 light yrs away
60 members in cluster



IC405(Flaming star nebula)

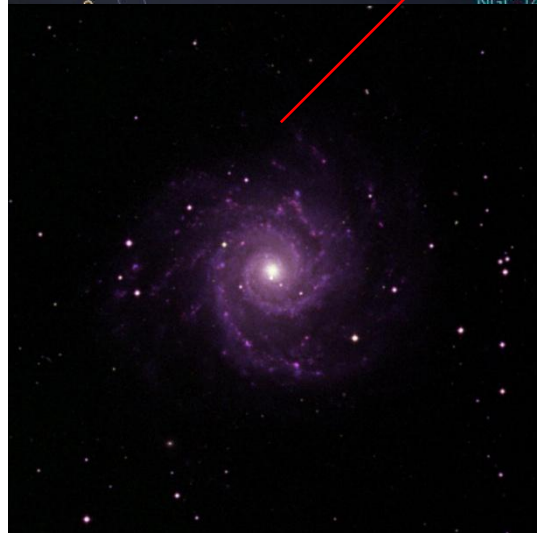
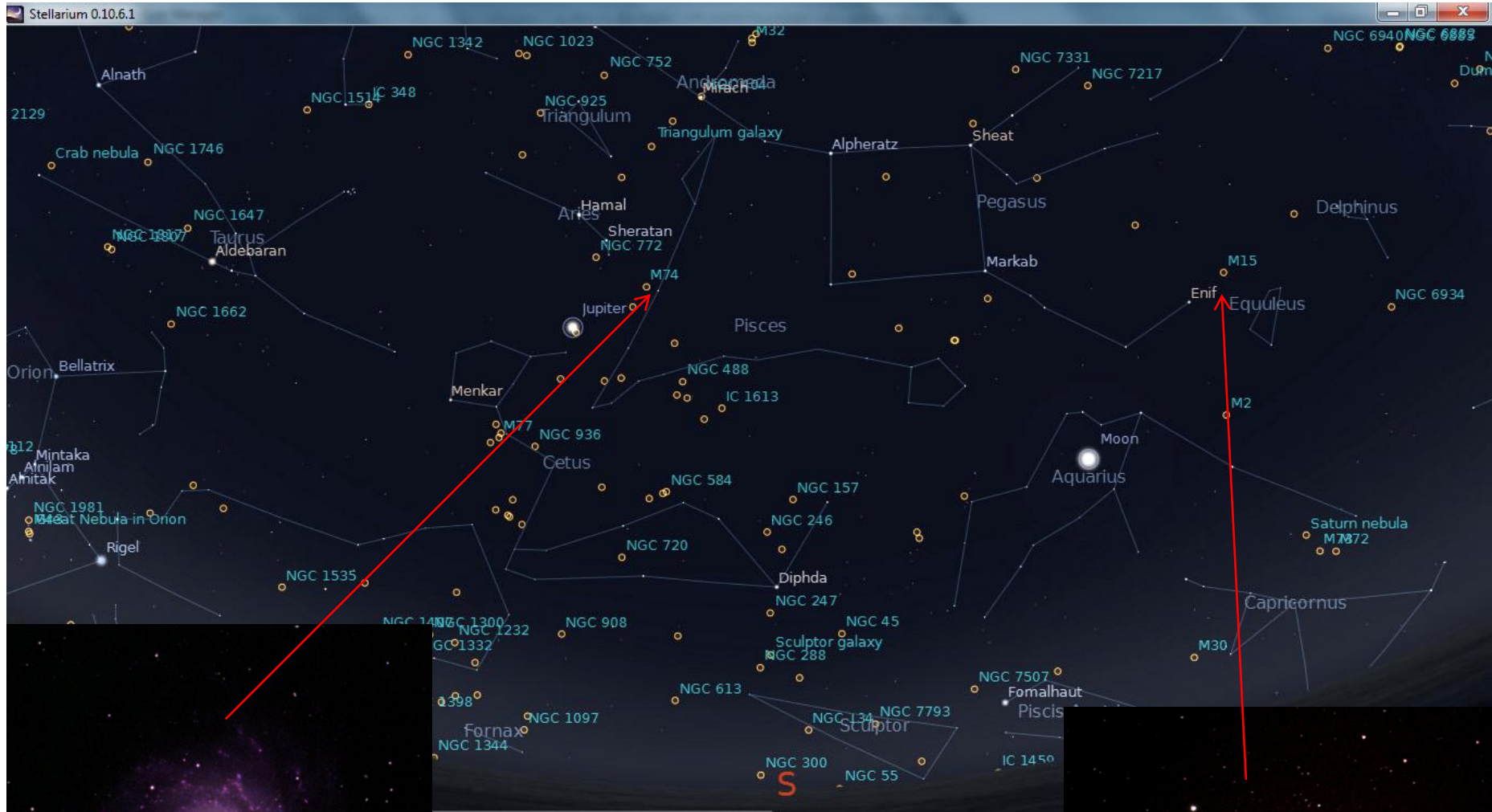
1500 light yrs away
Illuminated by brilliant O-type star
AE Aurigae – runaway star ejected
Near Trapezium cluster



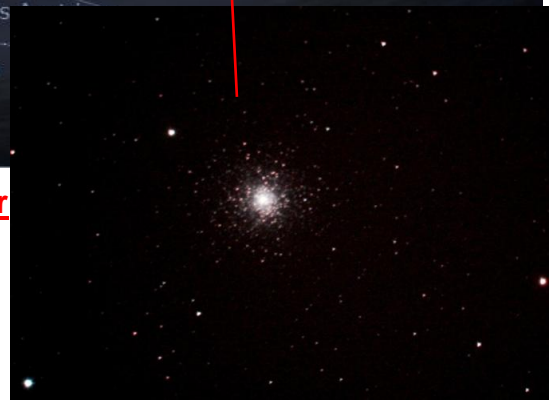
59.9 FPS 2011-11-04 22:00:13

View facing South 10:00pm on Nov 3rd 2011

(93deg Field of View)



M74 (Grand Design spiral)
Symmetric spiral arms
Face on spiral galaxy
Abundant star HII regions
In spiral - higher rate of
Star formation than normal
(32 million lt yrs away)



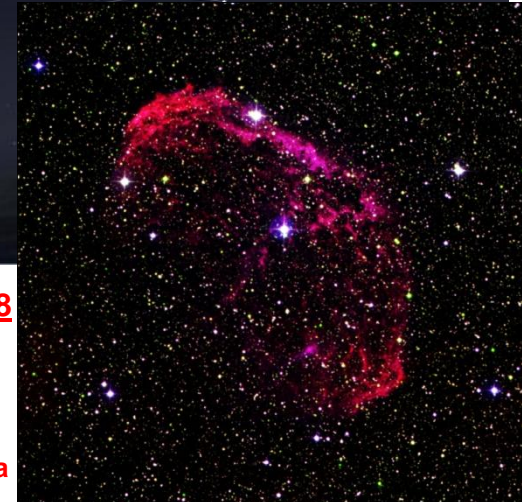
M15 (Globular cluster)
33,600 lt yrs away
One of the densest
globulars

View facing West 10:00pm on Nov 3rd 2011

(64deg Field of View)



Cocoon Nebula(IC5146)
3900 light yrs away
Beautiful emission/ reflection
Nebula – surrounding massive
ionizing star – surrounded by
Dark dust clouds
Young stars at centre of nebula



Crescent nebula NGC6888
Illuminated by blue Wolf-
Rayet star – material
Forming nebula ejected during
Red giant phase of star-
Clumps / filaments form nebula

Moon :1st quarter (Nov2nd),Full moon(Nov10th), Last quarter(Nov18th) , New(Nov25th)

Lunar Rilles(one of the most interesting lunar features)

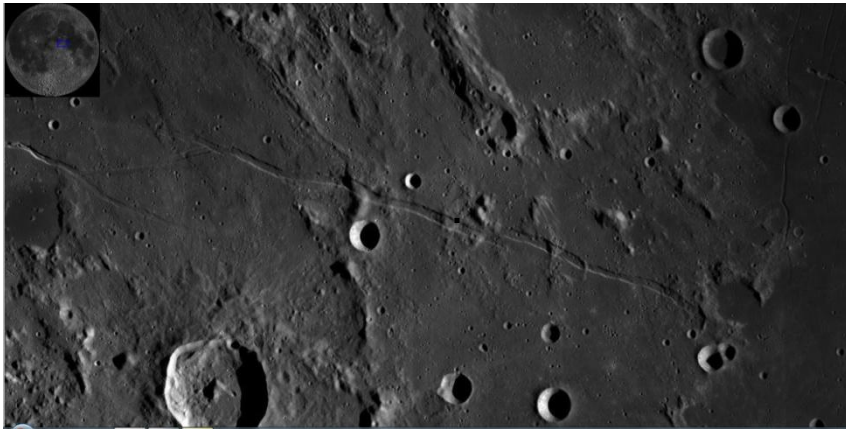
Rille is a long, narrow depressions in the lunar surface that resemble a channel

Types of Rille :

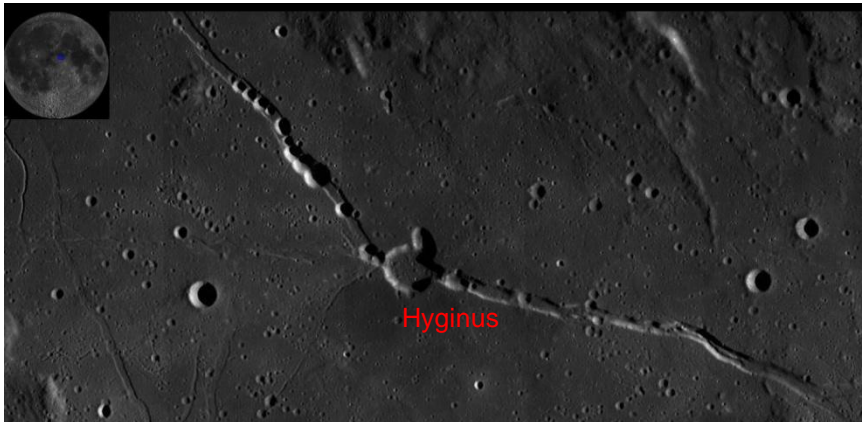
Sinuuous rilles -the remains of collapsed lava tubes or extinct lava flows

Arcuate rilles – created by lava flows

Straight rilles - follow long, linear paths(grabens) – where crust has sunk



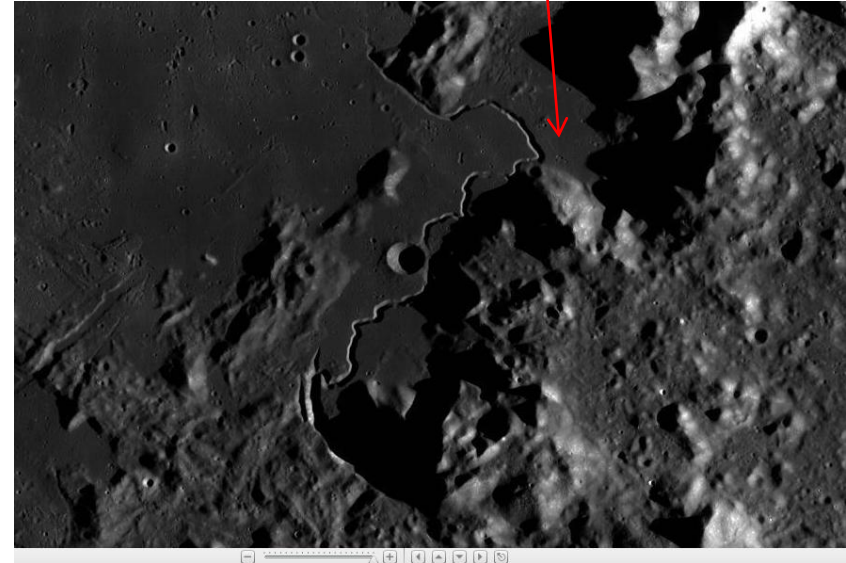
Ariadaeus Rille – 220km long (4-5 km wide/0.8km deep)
(Example of graben fault)



Hyginus Rille - crater / pits along rille may be of volcanic origin

LRO imagery

Hadley Rille(sinuuous lava channel)
- **Apollo 15 Landing site**



Schroter's valley -sinuous rille (10km wide/160km long)
- Formed by rapidly flowing lava from Cobra's Head

Planets (Nov 2011)

Mercury :best time to see – **early November** – only about 2 deg high (**difficult**)

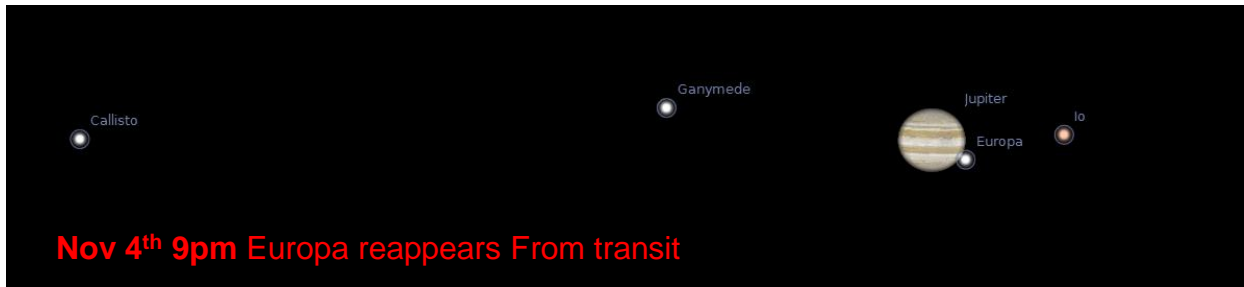
Venus : best time to see – **Nov 30th (30 min after sunset)** – only 6deg high
Magn -3.8 (tricky target for telescope)

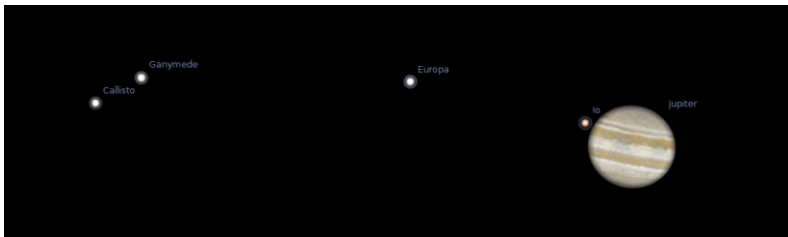
Mars : best time to see (Magn+1.1) – **Nov 30th-** in Leo only 5deg from Regulus(+1.3)
only 7” in size – **so difficult to see features through telescope**

Jupiter: best time to see Nov 1st (opposition on Oct 29th) – **.visible all night**
almost 50” in diameter (magn -2.7) Interesting transits / occultations

Interesting transits / occultations :

Jupiter(SLOOH)
14” SCT oct29th





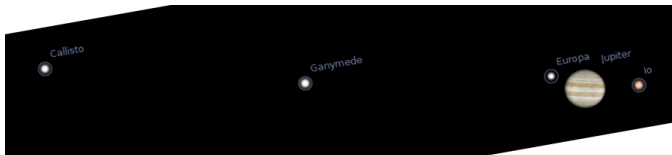
Nov6th 22:40pm
Io emerges from occultation



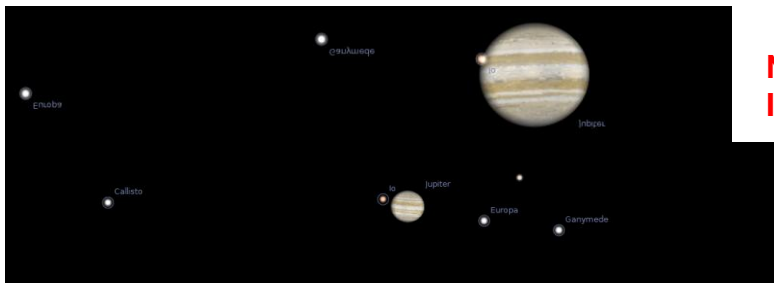
Nov7th 22:40pm
Ganymede enters transit



Nov18th 22:40pm
Europa enters transit



Nov20th 21:43pm
Europa exits occultation



Nov21st 22:40pm
Io enters transit

Nov22nd 20:57pm
Io exits occultation



Nov25th 21:05pm
Ganymede exits occultation



Nov25th 19:57pm
Io enters occultation

Meteor showers (Nov 2011)

North / South taurid meteor shower on Nov 5 / 6th and 11 / 12th

Leonid meteor shower on Nov 17 / 18th (Last quarter moon may affect display)

