

View facing East 10:00pm on Dec 2nd 2010

(80deg Field of View)



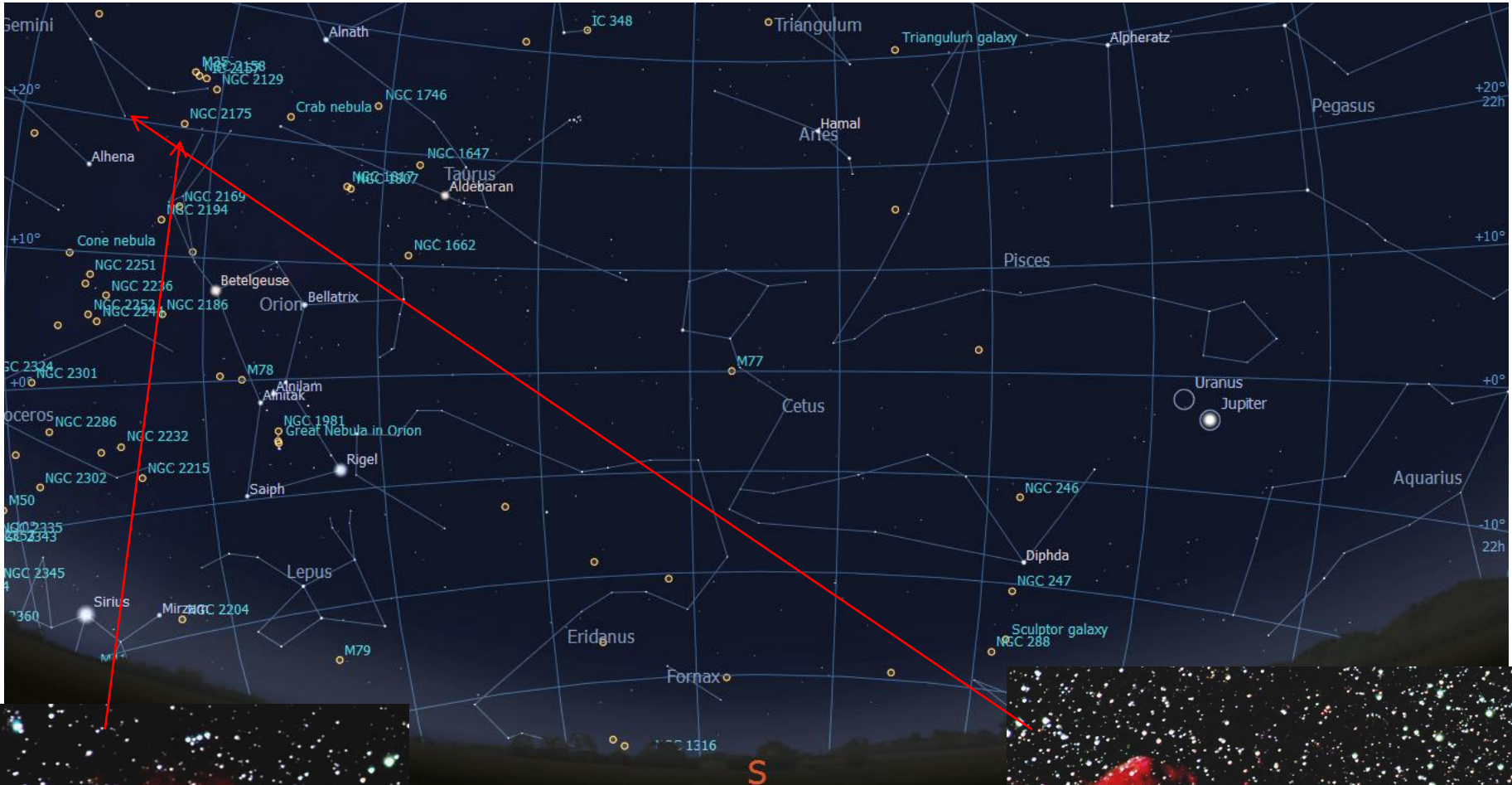
Cone nebula
Conical pillar of gas & dust
(7 lt yrs in size)
Surrounded by NGC2264
Illuminated by S-Monocerotis
O-type supergiant (8000 x
mass of sun – ionizing source



Rosette Nebula
NGC2237
Large HII region
With central cavity
5000 lt yrs away

View facing South 9:00pm on Dec 2nd 2010

(93deg Field of View)

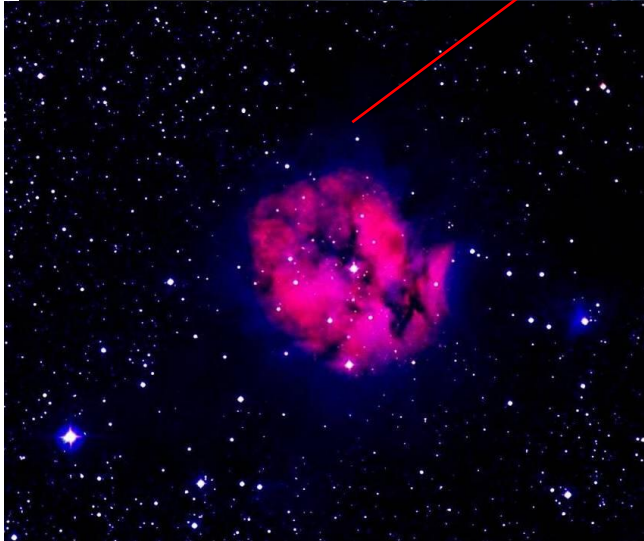
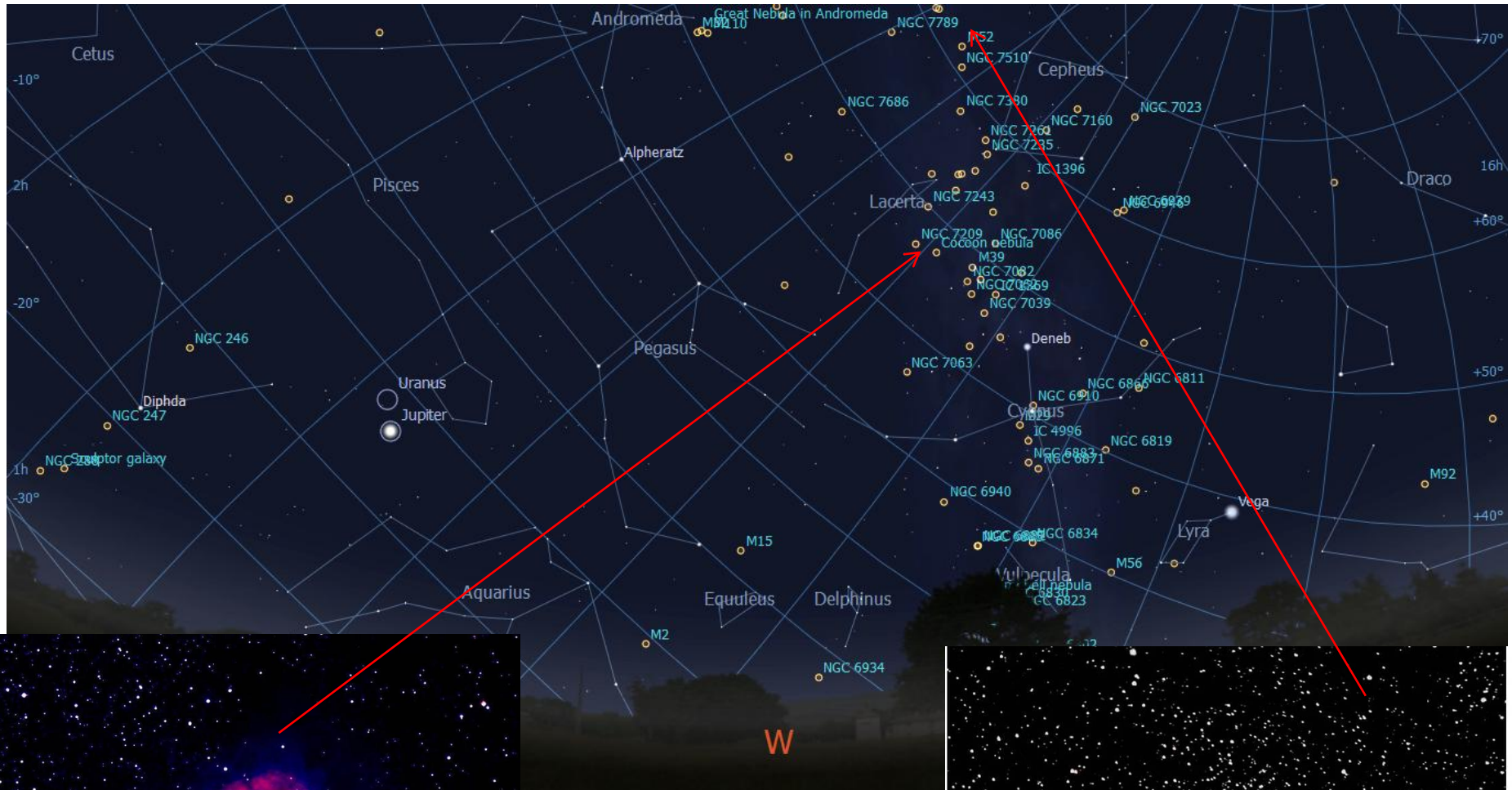


NGC2174 (HII region)
Associated with open cluster NGC2175
Distance of 6000 lt yrs



IC443 (Jellyfish nebula)
Supernova remnant interacting with
Molecular cloud – neutron star at centre of
IC443 (5000 lt yrs ago)

View facing West 10:00pm on Dec 2nd 2010 (64deg Field of View)

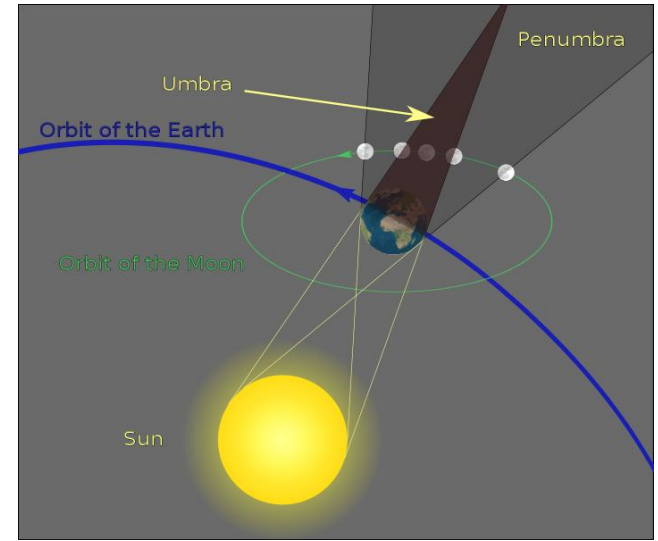
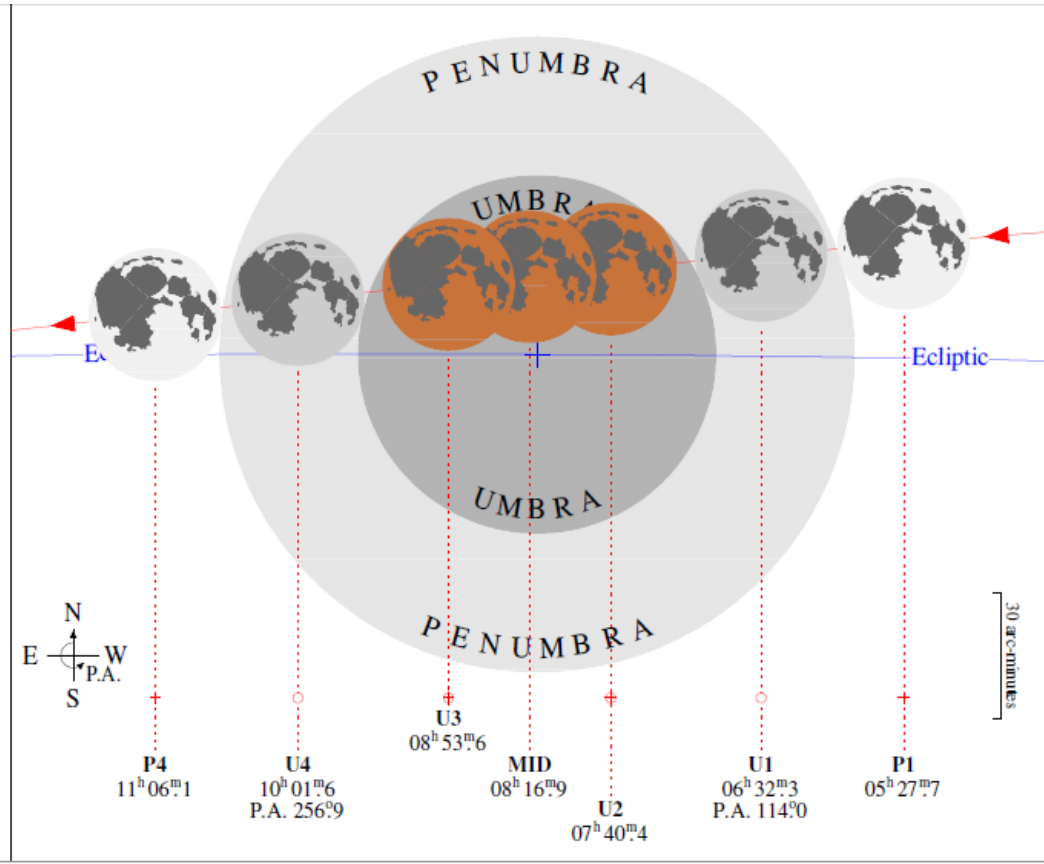


Cocoon Nebula IC5146
 (emission/ reflection nebulae
 -Surrounded by dark dust clouds
 -Star cluster at centre
 -(1 million yrs old)
 -Pre-main sequence stars



NGC7789 (open cluster) – over 1000 stars- (40 lt yrs – 8000lt yrs distance)

Lunar Eclipse (Dec 21st 2010)



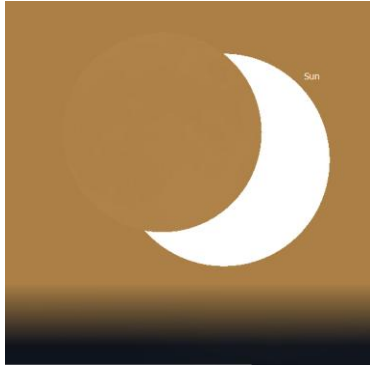
Lunar eclipse (03-03-07)



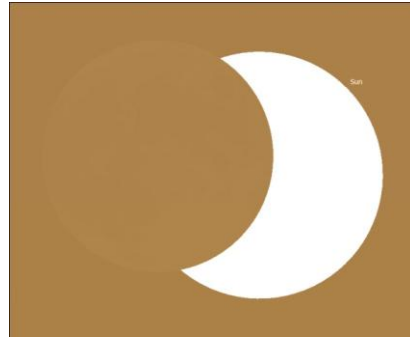
6:30am(alt 14deg) 6:40am(alt 12deg) 7:00am (alt 9deg) 7:15am (alt 7deg) 7:30am (alt 5deg) 7:45am (alt 3deg)

Lunar phases(Dec 2010) : New(5th Dec) , 1st quarter (Dec 13th) , Full(Dec 21st) , last quarter(Dec 27th)

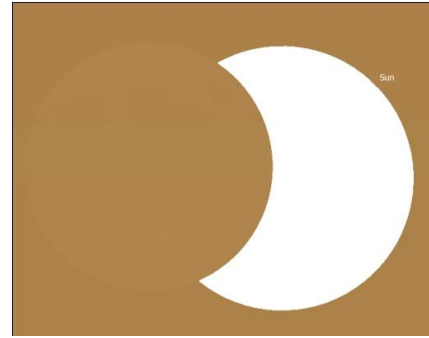
Partial Solar Eclipse (Jan 4th 2011)



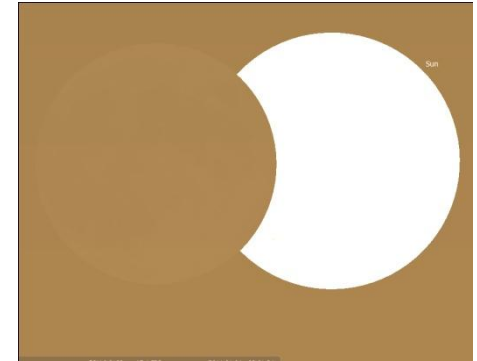
08:26am (alt 0deg 40')



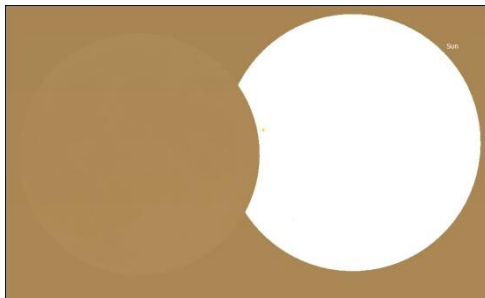
08:35am (alt 2deg)



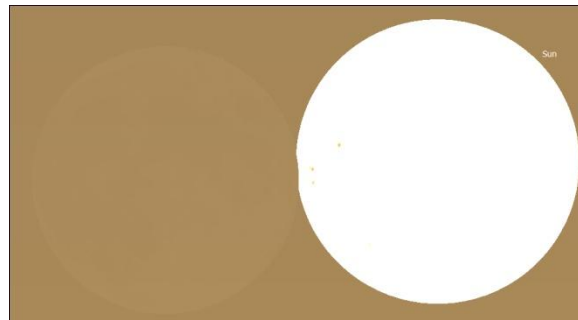
08:45am (alt 3deg)



09:00am (alt 5deg)



09:15 am (alt 6deg 30')



09:26am (alt 7deg 30') – last contact



Solar System Sky notes (Dec 2010)

Mercury

Optimum visibility – Dec 31st – low in south-east before sunrise – altitude 10 deg

Venus

Optimum visibility – Dec 2nd –(near 14% lit moon) – magn -4.55 (41” crescent phase) – alt 20 deg

Mars

Not visible this month

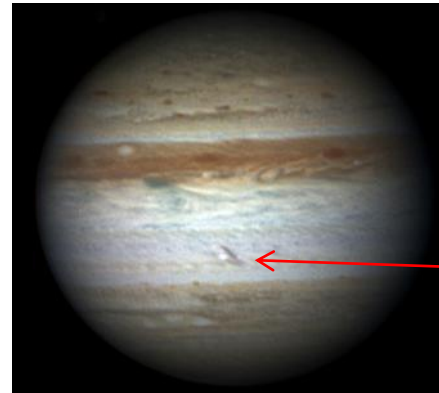
Jupiter

Visible all night (see sky map) – magn -2,3 , 42” size – SEB belt still missing

Good visibility of
GRS due to lack of
South equatorial
belt →



(SLOOH 14” SCT) Nov 11th



Disturbance forming
May indicate that the SEB
Is going to re-appear over
The next few month

C.Go (Nov 13th)

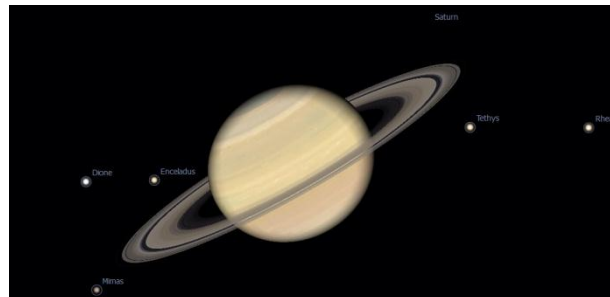
Saturn

Rises at 2am (mid month)

Rings tilted by 10deg

Magn +1.25

Size 39”



Geminid Meteors (Dec 2010)

Probably the finest meteor shower of the year – peak rate of 100 meteors / hour

Shower from 6 – 19th December (peak rate on Dec 14th (am)- moon-set at 00:30am)

Meteors have slow-medium speeds and often bright trails



Perseid meteors(dec 14) 01:30am – radiant near Castor