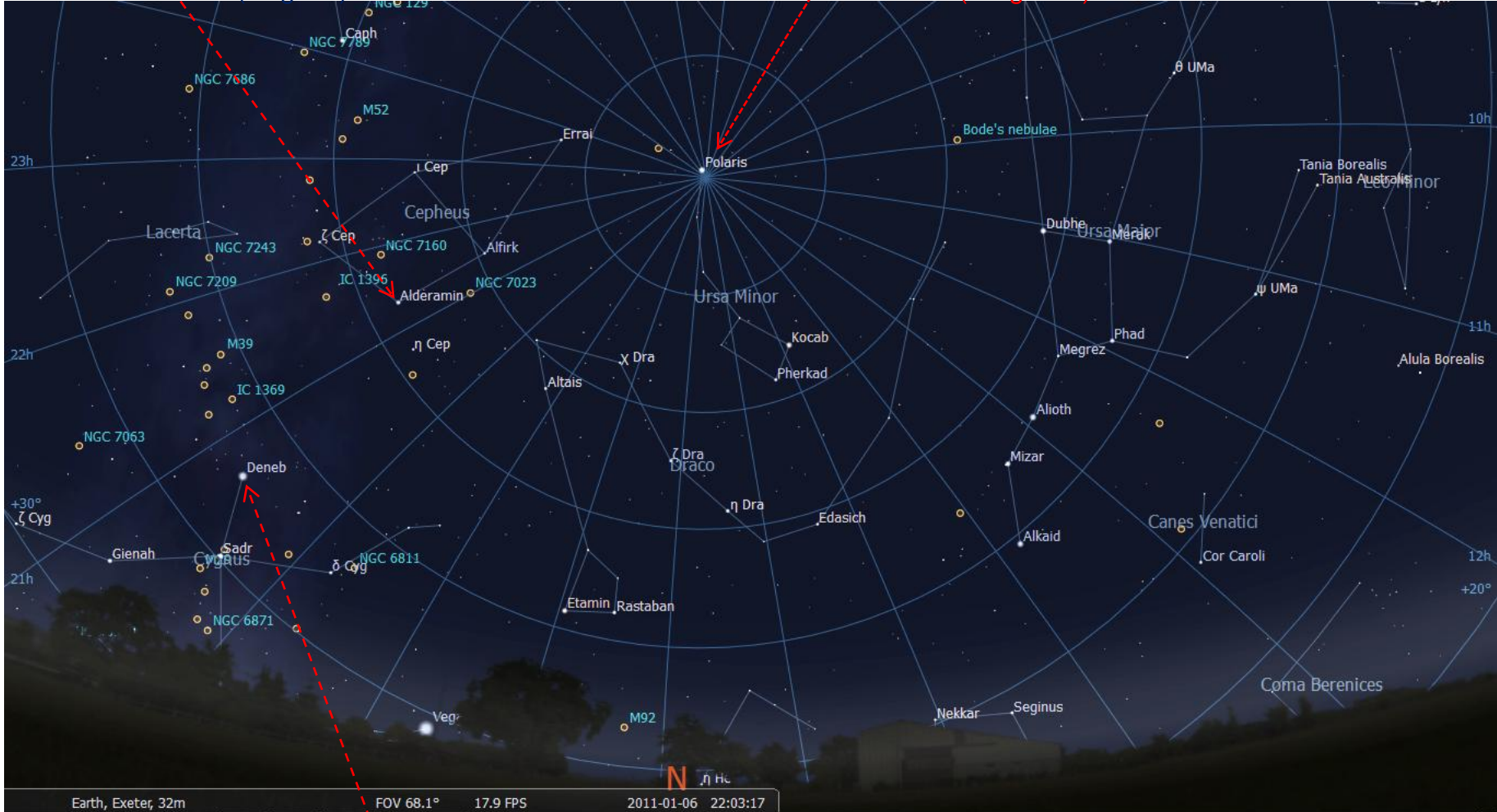


Jan 11 Sky notes

View facing North 10:00pm on Jan 6th 2011 (68deg Field of View)

Alderamin – Class A (subgiant) Star (7600K) :
1.9 \times Rsun , 2.5 \times Msun , 18 \times Lsun (12 hr rot period) – 49 lt yrs away
(Mag 2.5)

Polaris – Cepheid variable Star (7200K) :
30 \times Rsun , 7.5 \times Msun (binary), 2200 \times Lsun – 430 lt yrs away
(Mag 1.97)



Deneb –variable star (8525K) – Class A (blue/white) :
220 \times Rsun , 20 \times Msun , 54,000 \times Lsun – 1400 lt yrs away
(Mag 1.25)

Rsun = Solar Radius , Msun = solar mass
Lsun = Solar Luminosity

Constellation of the Month (Jan 11) : Ursa Major

M81 (12 million lt yrs)



Pinwheel galaxy
M101 (23 million lt yrs away)



Whirlpool galaxy
M51 (35 million lt yrs away)

View facing East 10:00pm on Jan 6th 2011

(68deg Field of View)

Castor – 6 star system – Castor A(10,300K) /B (8840K)(Class A stars)
2.3 / 1.6*Rsun , 2.5 / 1.7*Msun , 30 / 14*Lsun – 49 lt yrs away
Mag 2 / 2.9

Pollux -4865K –Class K Star (orange giant star)
8.0*Rsun , 1.86*Msun , 32*Lsun – 33 lt yrs away
(extrasolar planet – 2.3*M_Jupiter) Mag 1.15



Regulus –Class B star (10,300K) -binary :
3.1*Rsun , 3.5*Msun , 150*Lsun - 77 lt yrs(15.9 hr rot period)
Mag 1.35

Procyon – Class F Star (subgiant) - binary(ProcyonB- white dwarf)
(6530K) 2.0*Rsun , 1.4*Msun , 7.7*Lsun - 11 lt yr away
(Mag 2.65)

View facing South 9:00pm on Jan 6th 2011 (56deg Field of View)

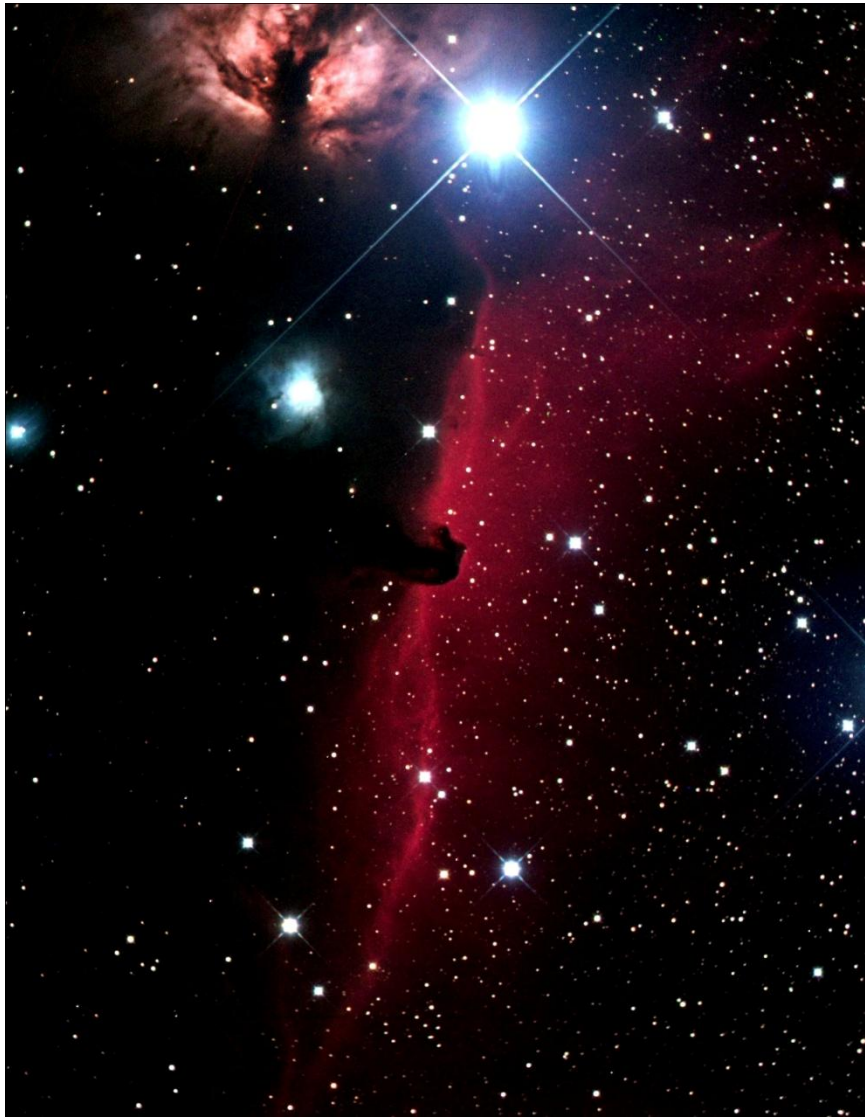
Betelgeuse — Class M (red supergiant Star (3500K)) :
 1180*Rsun , 19*Msun , 140,000*Lsun (10 mi yrs old) – 643 lt yrs away
 (Mag 0.42)

Aldebaran —Class K(giant orange star(4010K)
 44*Rsun , 1.7*Msun , 425*Lsun – 65 lt yrs away
 (Mag 0.75)

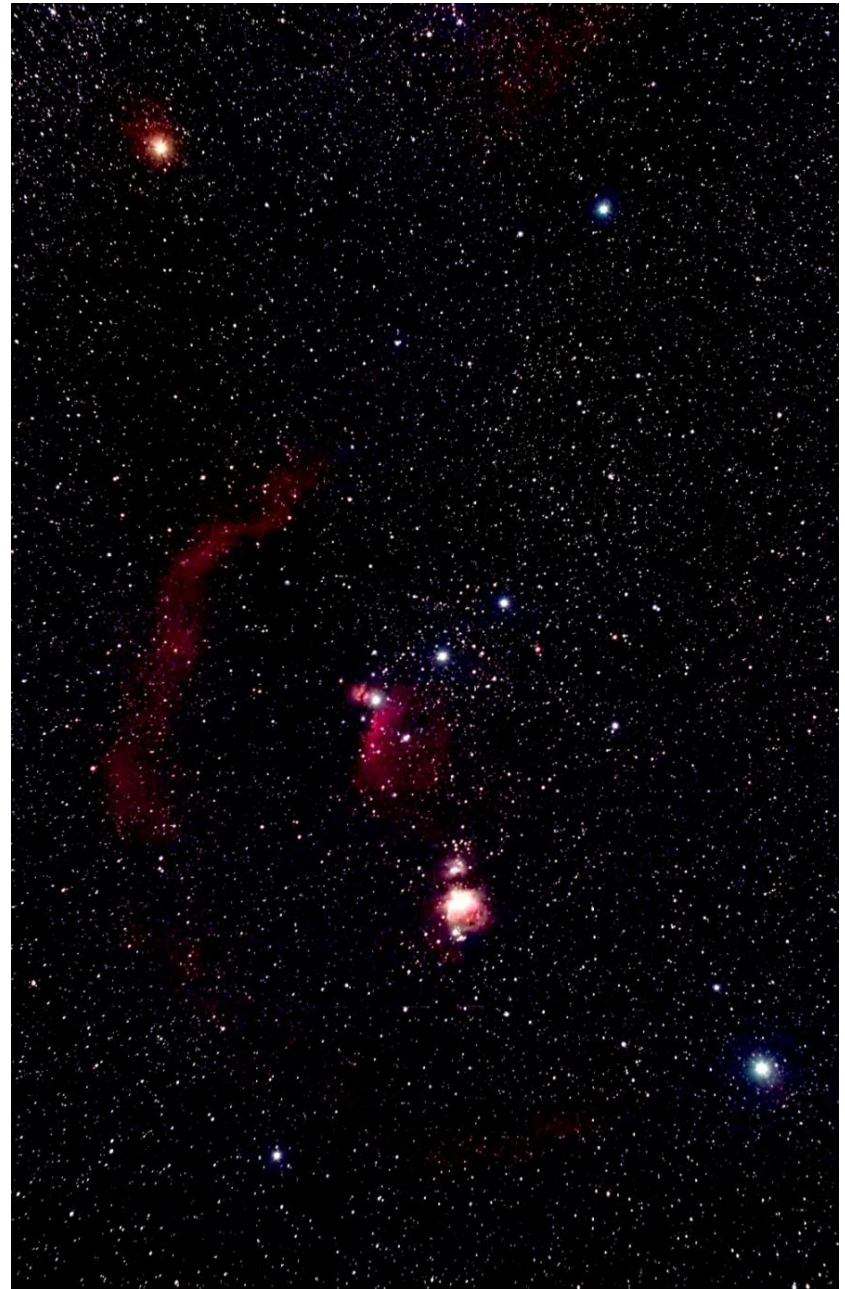


Sirius – Class A (9940K)- brightest star in sky
 1.7*Rsun , 2.0*Msun , 25.4*Lsun – 8.6 lt yrs away
 Binary star : SiriusB – faint white dwarf companion(0.026*Lsun / 25,200K)
 (Mag -1.46)

Rigel – ClassB (11,000K) Blue supergiant (mag 0.18)
 78*Rsun , 17*Msun , 66,000*Lsun – 772 lt yrs away
 (One of the most luminous stars in Milky Way)
 Slightly irregular star – visual binary
 (Mag 0.18)



Flame / Horsehead Nebulae + Alnitak
(Lightbuckets 8" Astrograph) Dec 10

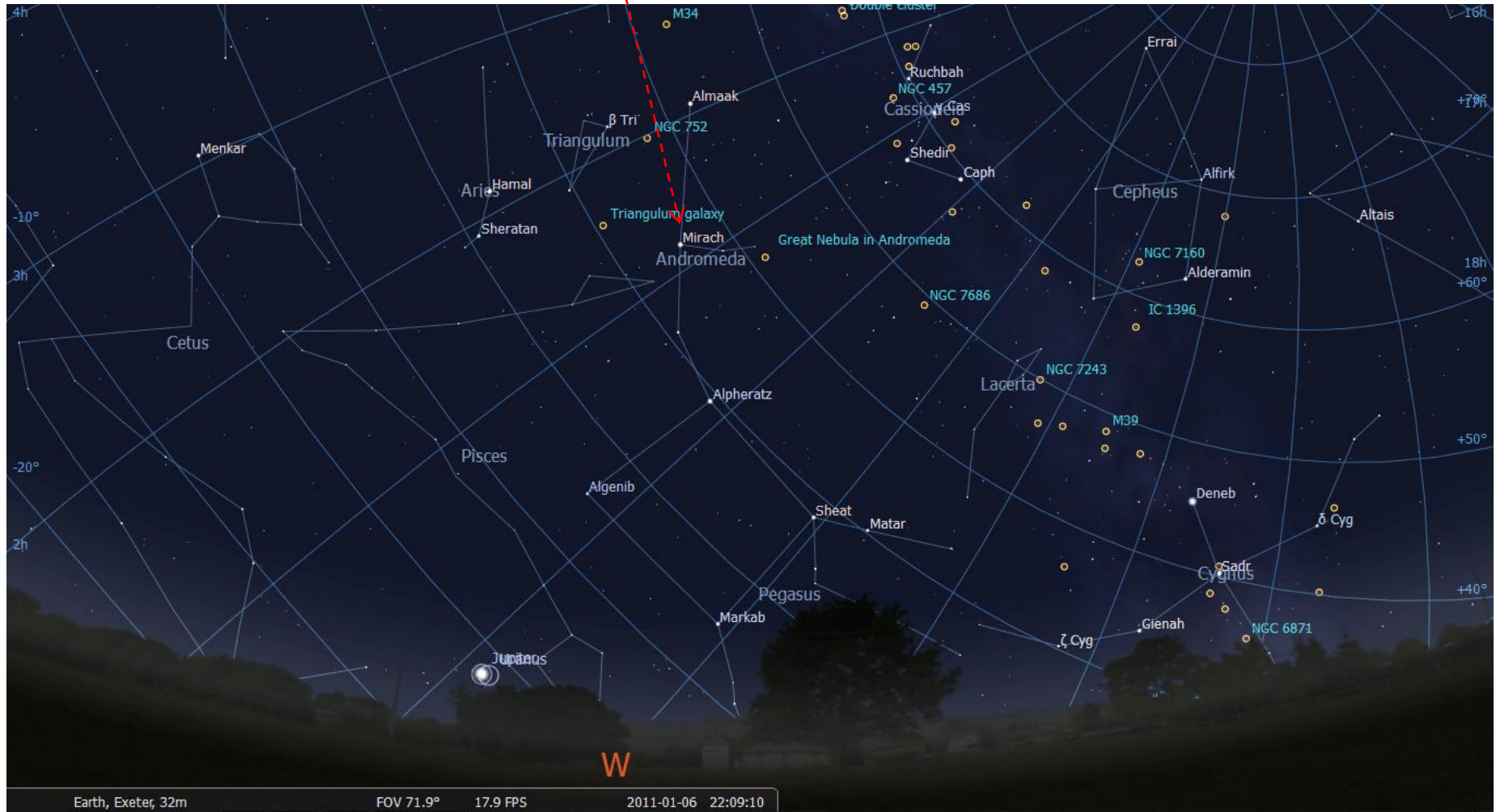


Orion Wide Field image (Dec 10) canon350D

View facing West 10:00pm on Jan 6th 2011

(64deg Field of View)

Mirach – red giant star (class M -3800K)
90*Rsun , 3.0*Msun , 1900*Lsun – 199 lt yrs away
(Mag 2.0)



Earth, Exeter, 32m

FOV 71.9°

17.9 FPS

2011-01-06 22:09:10

Lunar Total Eclipse (Dec 21st 2010)



08:00am (SLOOH)



08:40am (SLOOH)

New moon (Jan 4th) –partial solar eclipse , 1st quarter(Jan12th) , Full moon (Jan 19th) , Last Quarter (Jan 26th)

Solar System Sky notes (Jan 2011)

Mercury

Morning visibility –Jan 9th – greatest elongation – (23 deg from sun) – mag +0.2

Venus

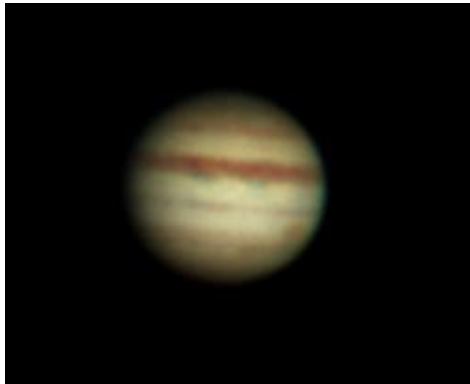
Morning visibility –Jan 8th - greatest elongation – (46 deg from sun) – rises 4hr before sunrise
(Mag -4.4)

Mars

Not visible this month

Jupiter

Visible all night (see sky map) – magn -2,3 , 36” size – SEB reappeared (Nov 24th 2010)



(SLOOH 14” SCT) Dec 22nd 2010



Dec 23rd 2010

Saturn

Rises at midnight (mid month) - Rings tilted by 10deg Magn +1.19 Size 40”

