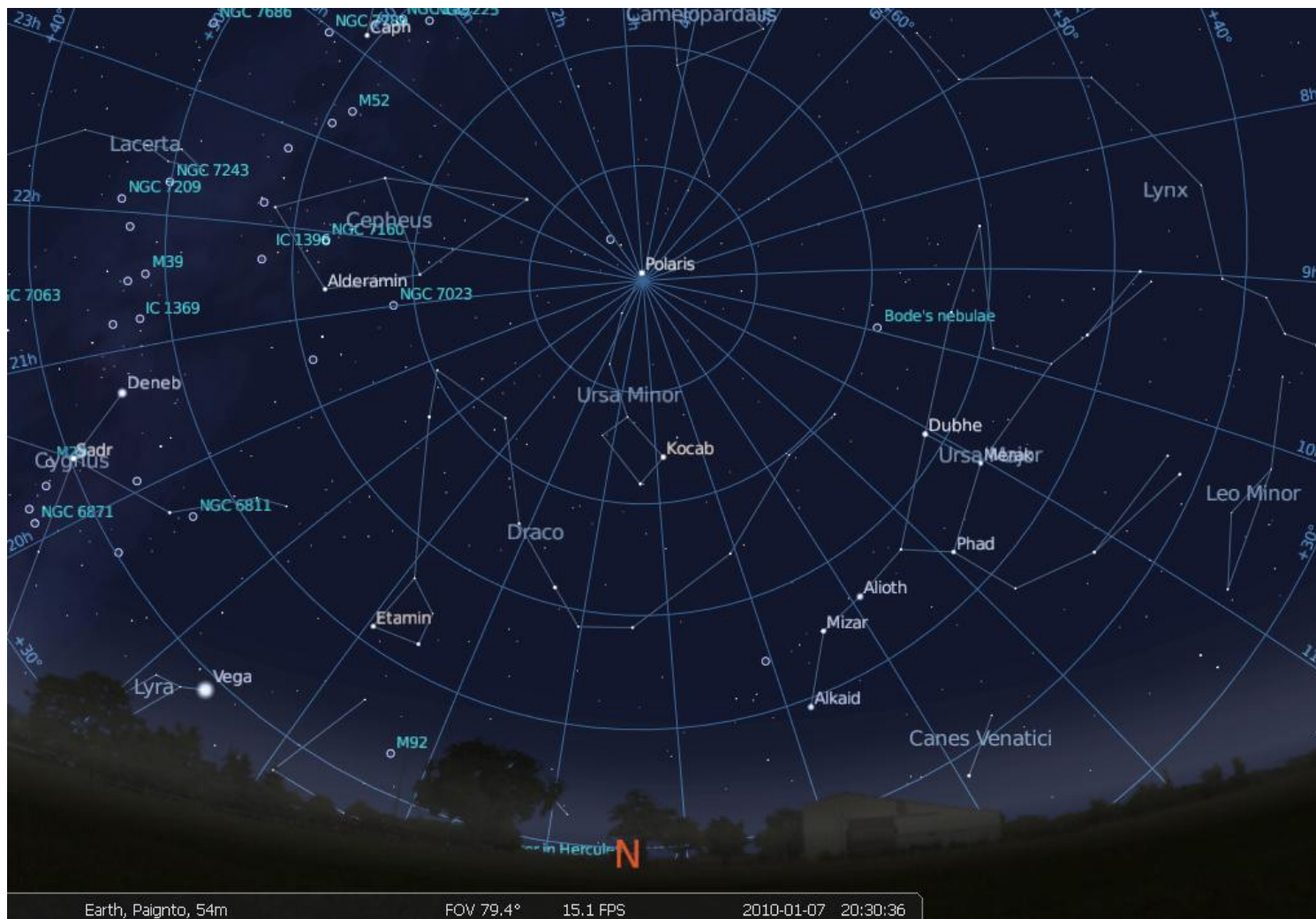


# January 10 Sky notes

**Based on sky visible at 8:30pm 7<sup>th</sup> January**

**View of Sky facing North on January 7<sup>th</sup> 2010 (80deg Field of View)**



**Ursa Major – visible on North East (Bodes Galaxies – M81 / M82)  
Dubhe/Merak – Pointer stars to Polaris (Pole Star)**

**Ursa Minor – prominent in northern sky  
(brightest stars : Polaris (Pole Star – alt 51deg approx) and Kochab)**

**Draco – faint constellation between Ursa Major & Ursa Minor**

View of Sky facing **East** on **January 7<sup>th</sup> 2010**

(80deg Field of View)



**Orion** – prominent in south East

(brightest stars Rigel (White), **Betelgeuse**(Red giant) , Bellatrix)

**Emission nebulae** : M42/M43 (great Orion nebula); Flame / Horsehead Nebulae

**Taurus** – high in south East

**brightest star Aldebaran** , Hyades and Pleiades Open Star Clusters

**Auriga** -high in East

**brightest star Capella** , open star clusters M36,M37,M38

**Gemini** – visible in East

**brightest stars Castor and Pollux** . open clusters – M35

**Cancer** – low in East

**Open Clusters M44 (Praesepe) and M67**

**Leo** – rising in East

**Bright star Regulus** , Mars

**View of Sky facing South on January 7<sup>th</sup> 2010**

**(80deg Field of View)**



**Orion** – prominent in south East

**Canis Major** – prominent in south East

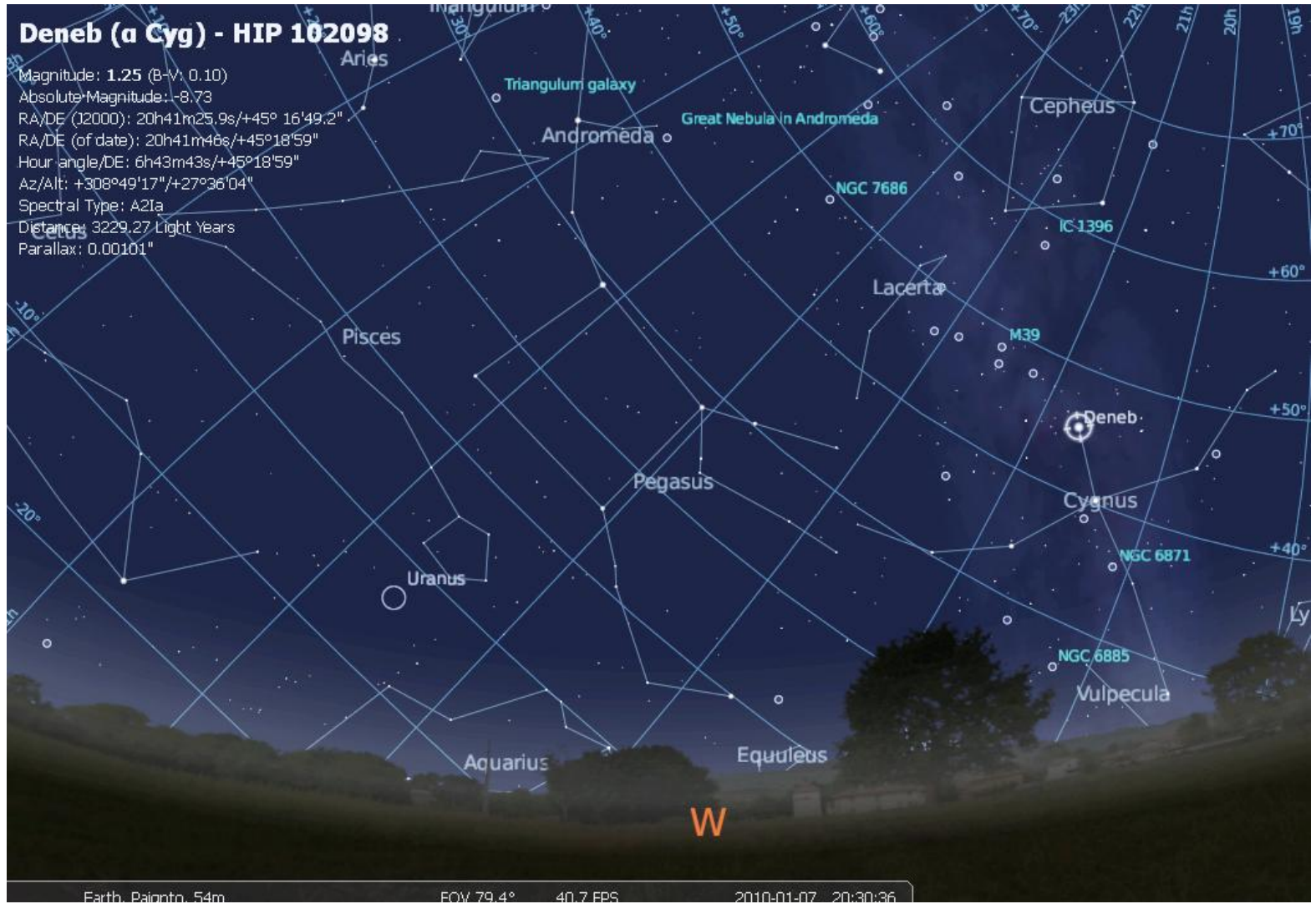
Bright star Sirius – brightest star in sky (magn -1.44 , distance of 8.6 light years)

**Aries** – high in south

**Eridanus /Cetus**– low in south

**View of Sky facing West on January 7<sup>th</sup> 2010**

**(80deg Field of View)**



**Square of Pegasus - low in west**

**Pisces – below square of Pegasus**

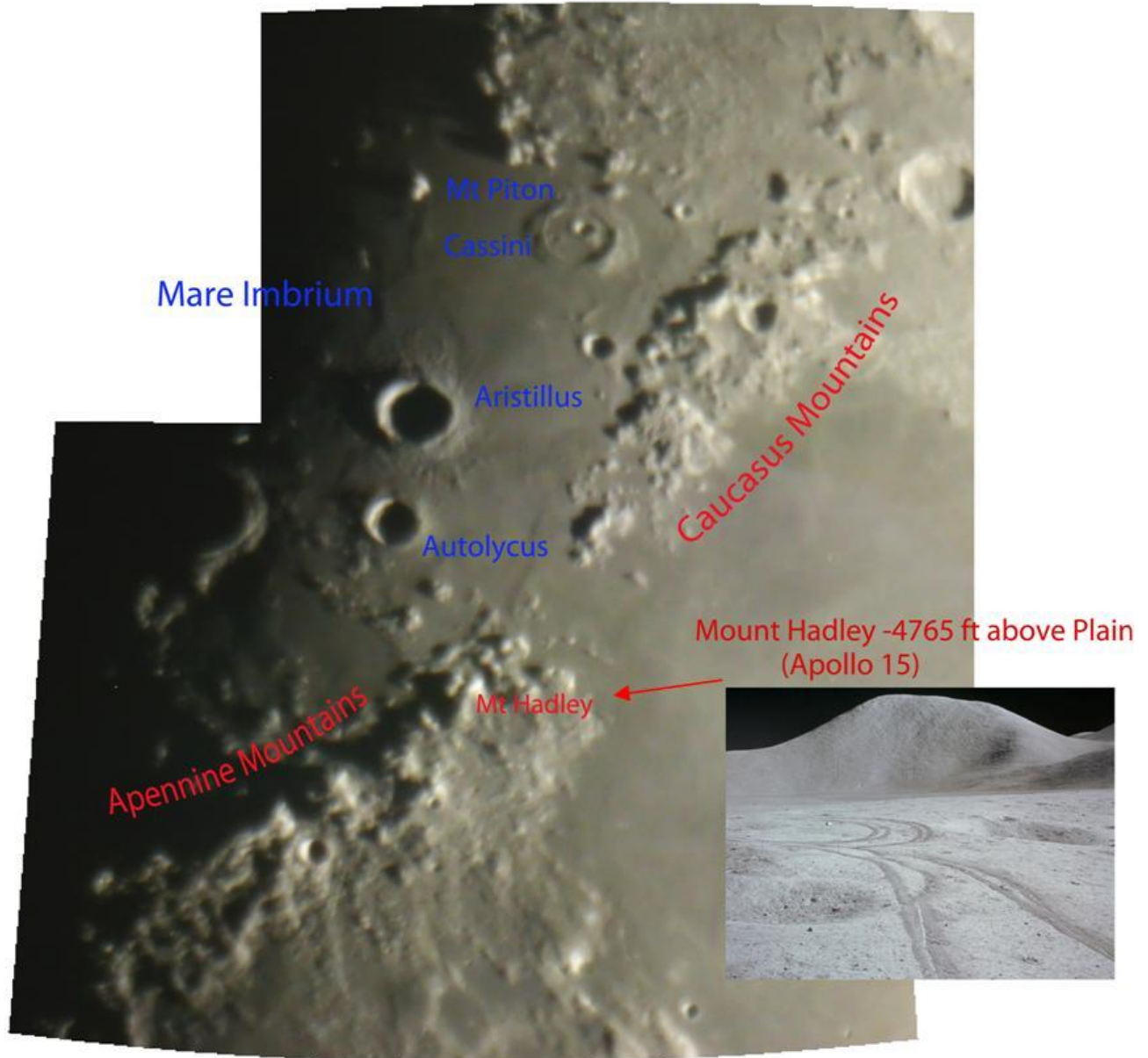
**Cygnus – on western horizon**  
**– bright star Deneb – rich region for Milky Way**

**Moon :**

**Full Moon (Jan 1st), Last Quarter (Jan 7th), new moon (Jan 15th) ,First Quarter (Jan 23rd)**

## **Lunar Mountain Ranges**

**Imbrium Basin – bounded by Apennine and Caucasus Mountain Ranges**



**Apennine Mts** – 600km long ---- bright scarps rising 5km above Mare surface

**Mount Hadley** – near Apollo 15 landing site –allowed astronauts to collect samples deep Within moon

**Mt Piton** – isolated mountain rising out of Mare Plain – 2.3 km high

**Caucasus Mts** – old battered range of massifs – 3 to 4 km above plain

## Solar System – January 10

### Mercury

Visible low in east after Jan 11<sup>th</sup> – maximum elongation on Jan 27<sup>th</sup>

### Venus

Not really visible this month

### Mars

In constellation of Leo

Rising at 9:30 pm ( Early Jan) – over 60deg alt due south on Jan 29<sup>th</sup>

Brightening from mag -0.6 to -1.2 , size increasing from 12.0 to 14.1 arc sec



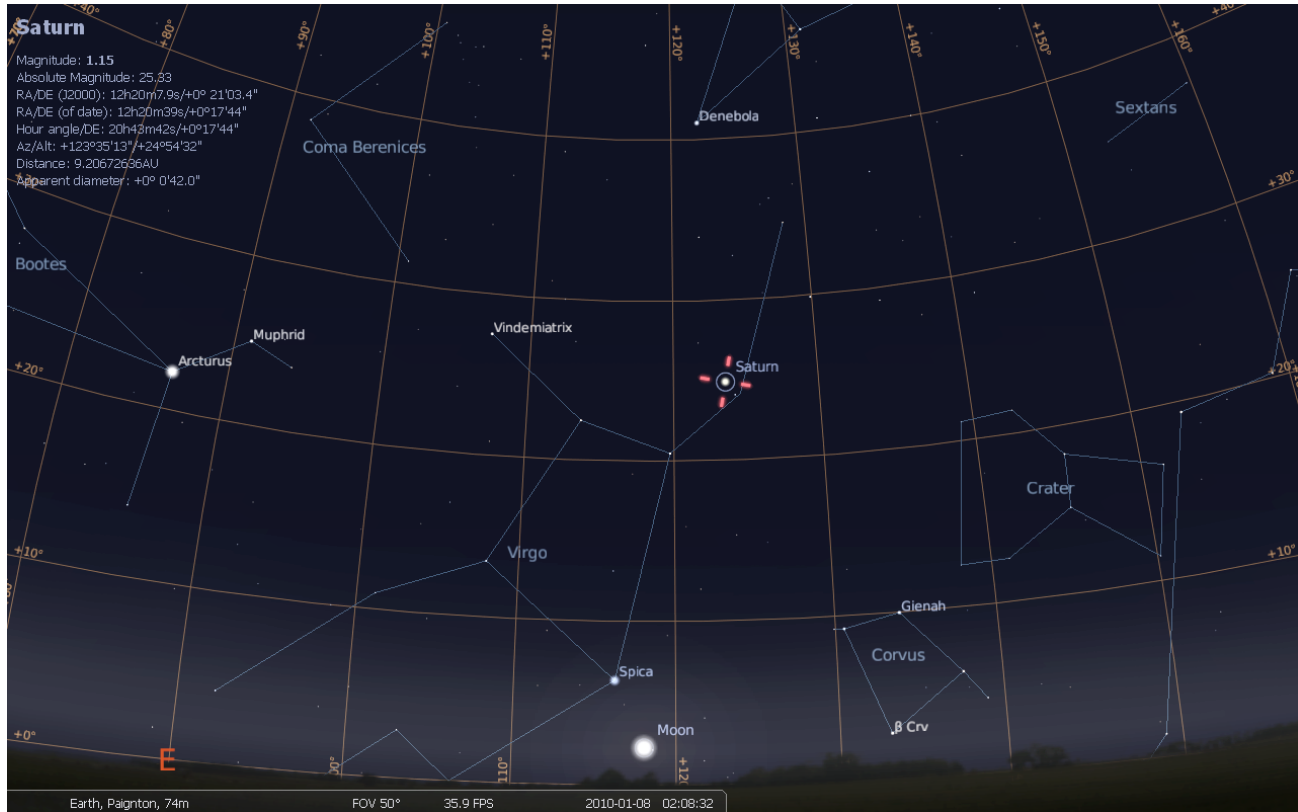
### Jupiter

Setting by 7:30 (early Jan) – 6:30pm by late Jan - very low in west after sunset

# Saturn

In constellation of Virgo – magn +0.5

Rising at midnight ( Early Jan) – 10pm by late Jan



Rings are opening (5 deg):

