

A presentation of what's up, what's rising and what's setting In short...

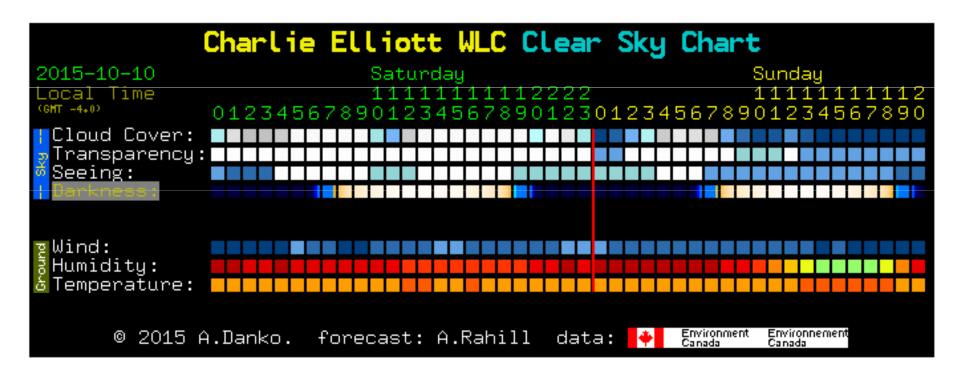
"All of the Above"



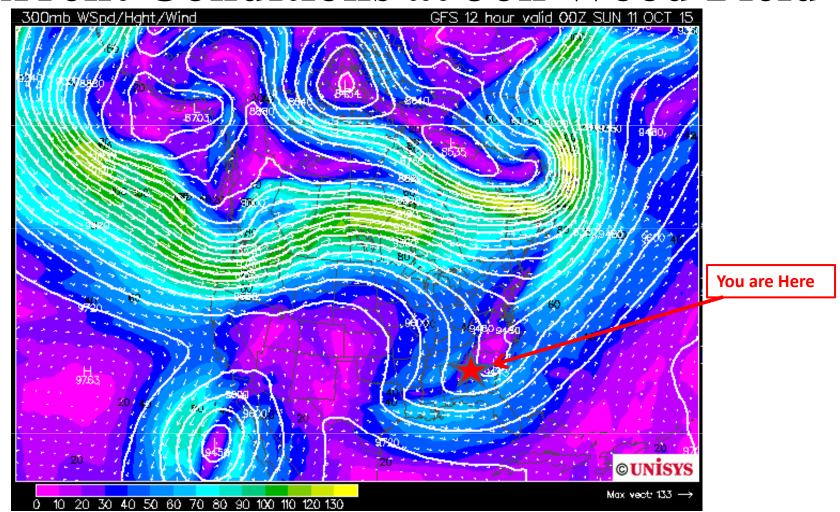
This Month's Sky: October 2015

- Conditions over the Jon Wood Field
- The Planets
- •The Sun
- •The Moon
- Celestial Events
- •The Constellations
- •Target List
- Challenges

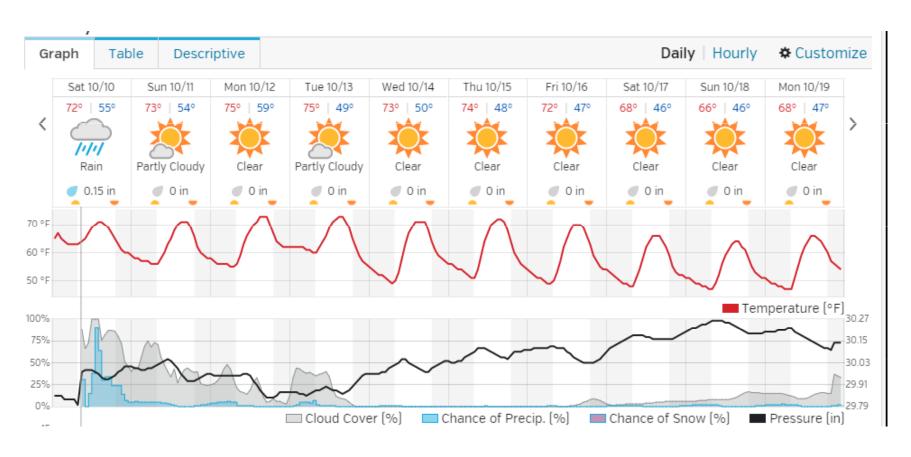


















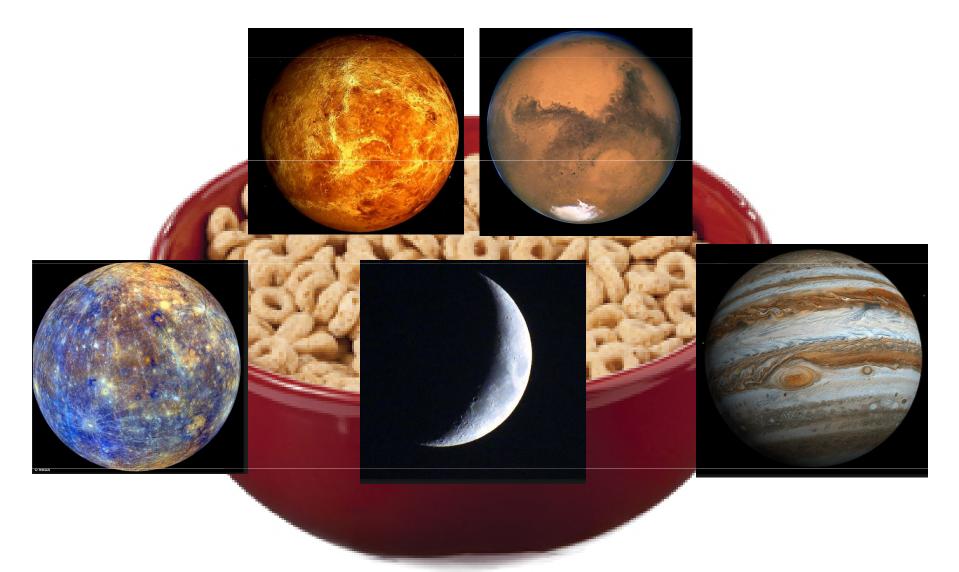
The Planets: October 10, 2015

Body	Constallation	Rise	Set	When to View
Sun	Virgo	7:38 AM	7:10 PM	Huh?
Moon	Leo	5:30 AM	6:04 PM	Dawn
Mercury	Virgo	6:24 AM	6:29 PM	Dawn
Venus	Leo	4:06 AM	5:01 PM	Dawn
Mars	Leo	4:42 AM	5:36 PM	Dawn
Jupiter	Leo	4:57 AM	5:42 PM	Dawn
Saturn	Libra	11:12 AM	9:31 PM	Early Evening
Uranus	Pisces	7:10 PM	7:53 AM	Dusk-til-Dawn
Neptune	Aquarius	5:22 PM	4:38 AM	Dusk-til-Dawn
Pluto*	Sagittarius	2:14 PM	12:23 AM	Early Evening

^{*} Pluto looks more like a planet every day.

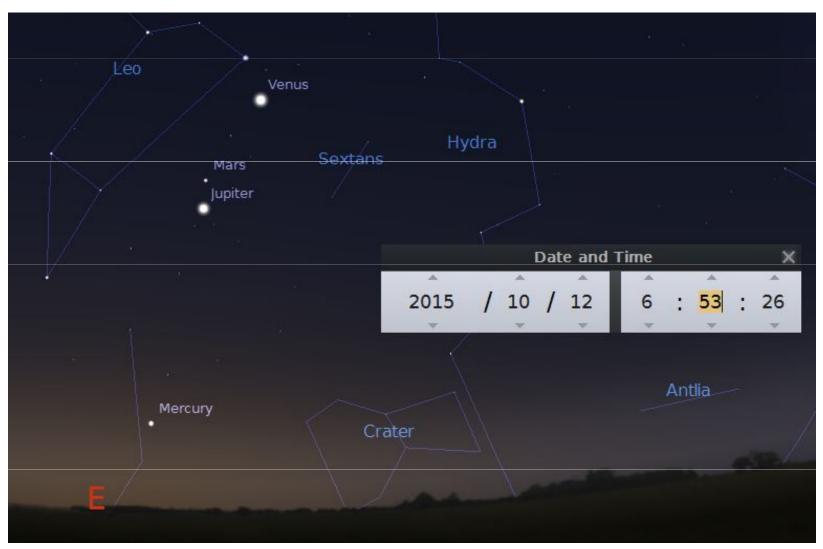


October 12: Four Planets for Breakfast





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October 18: Mars and Jupiter within 0.4°





October 25&26: Venus and Jupiter within 1.1°





November 2nd: Venus and Mars within 0.6°



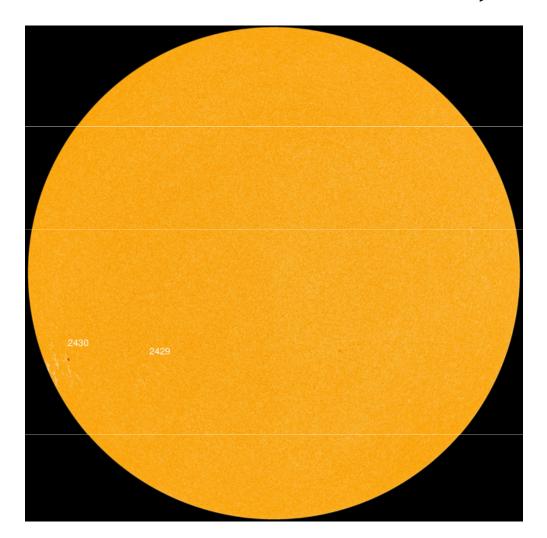


The Solar Update



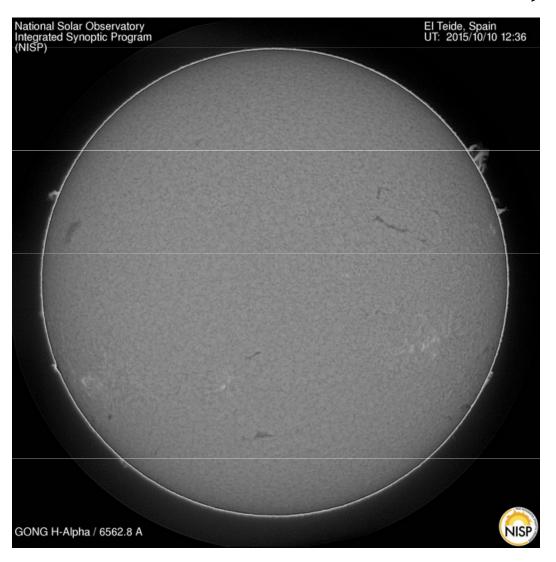


The Sun: October 10, 2015



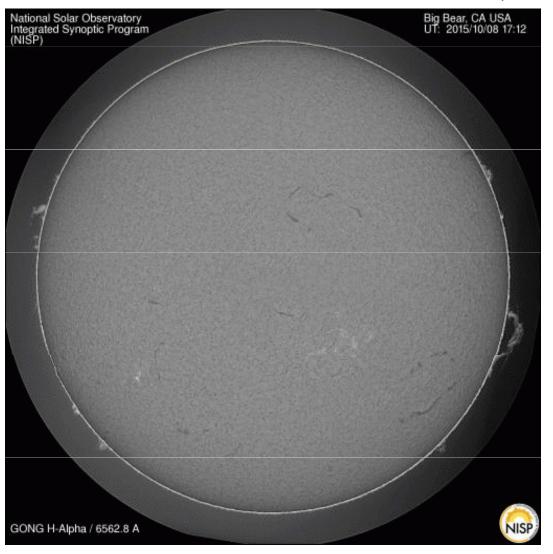


The Sun-Ha: October 10, 2015





The Sun-Ha: October 8, 2015



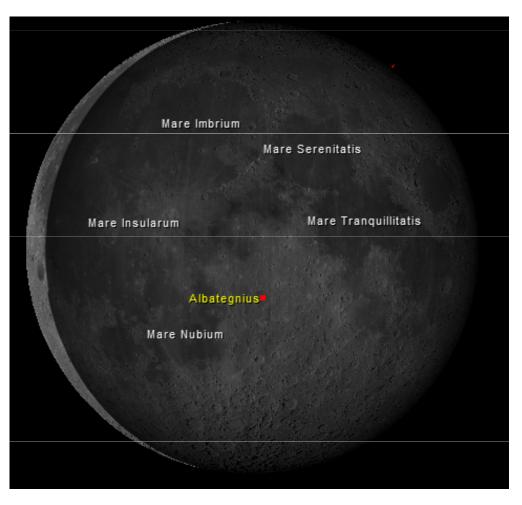


The Lunar Update





The Moon: October 10, 2015



Lunation: 27.5 Days

Illumination: 4%

Distance:

250,759 mi 403,558 km 1.34 Light Second

Apparent Diameter: 30.6'

Location: Virgo



Lunar Events

October 12th: New Moon

■October 20th: 1st Quarter

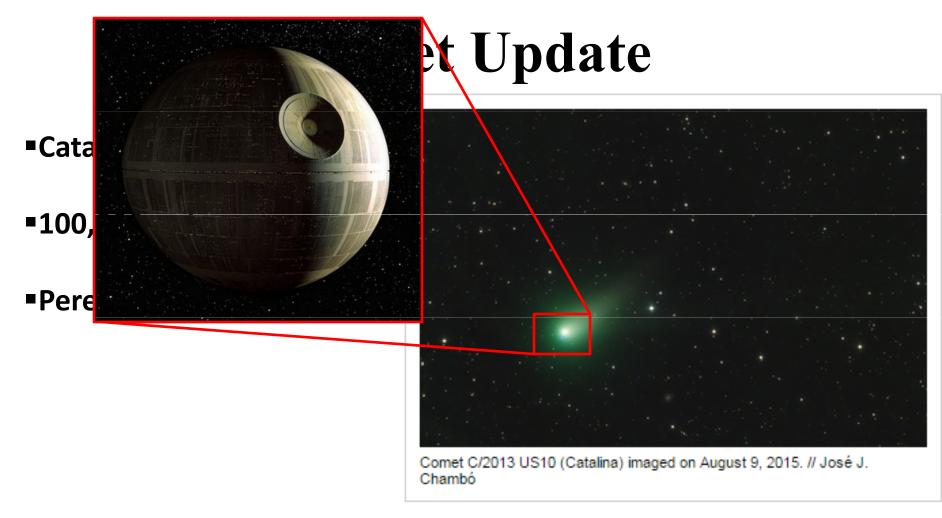
■October 23rd: Moon passes 3° North of Neptune

■October 26th: Moon passes 0.9° South of Uranus

October 27th: Full Moon

■October 29th: Moon passes 0.6° North of Aldebaran





■Look in Virgo December – April. Estimated that it could reach 4th magnitude. Finder charts will be available next month.



Constellation Action

Last Chance for 2015

Sagittarius Scutum

Ophiuchus Cpricornus

Hercules Aquila

Corona Borealis

High in the Sky (Chiropractor time for binocular users):

Pegasus Cassiopeia

Cygnus Cepheus

Andromeda

Pisces

New to the game:

Perseus Sculptor

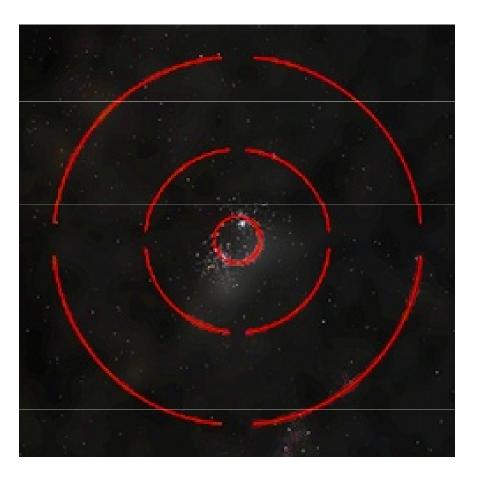
Triangulum Auriga

Cetus Camelopardalis

Aries



September Target Lists





October Target List: Relaxing

Naked Eye and Binocular

Target	Туре	Constellation	Notes	Image
M76	PN	Perseus	Little Dumbell	
NGC 869/884	ОС	Perseus	Double Cluster – two for one	
Kemble - 1	ОС		Kemble's Cascade - Open Cluster/Asterism	
M2	GC	Aquarius	Globular Cluster	
NGC 253	GX	Sculptor	Sculptor Galaxy	



October Target List: Intriguing

Small to medium telescopes

Target	Туре	Constellation	Notes	Image
NGC 7662	PN	Andromeda	Blue Snowball Nebula	
Melotte 15	ОС	Perseus	Open cluster in the core of the Heart Nebula (IC 1805)	1900
NGC 288	GC	Sculptor	Globular Cluster in Sculptor – shares wide FOV with NGC 253	3982
NGC 253	GX	Sculptor	Sculptor Galaxy – Easily seen with wide range of instruments	
NGC 7331	GX	Pegasus	Nearly edge-on galaxy. Also Caldwell 30.	· · · · · ·
NGC 7331	GX	Pegasus		



October Target List: Taxing

Light Buckets

	1			
Target	Туре	Constellation	Notes	Image
NGC 40	PN	Cepheus	Bowtie Nebula	
NGC 6543	PN	Draco	Cat's Eye Nebula – Can you see the structure?	
Alpha Piscium	DS	Pisces	Alrescha – 1.7" separation. Tight but can be split	••
NGC 404	GX	Andromeda	Ghost of Mirach – located northwest of Mirach	
NGC 7417- NGC 7420	GX	Pegasus	Stephan's Quintet – 5 Mag 12- 13 galaxies in tight group	



October Observing Challenge Object: NGC 1275 – Perseus A

■Also Caldwell 24

Seyfert Galaxy in Perseus

Radio Source Perseus A

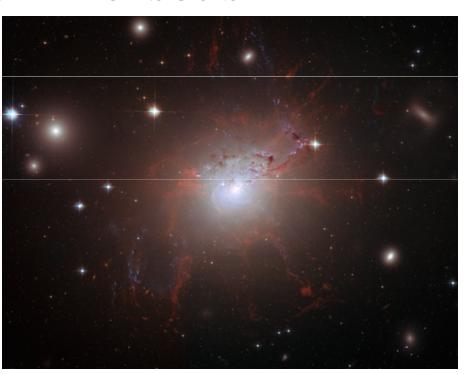
RA:03 19 48

■DEC: +41 30 42

■237M Light Years

■Mag: +12.6

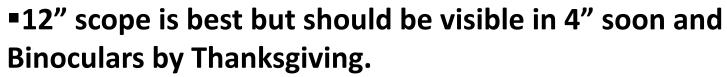
Think about what you are seeing!

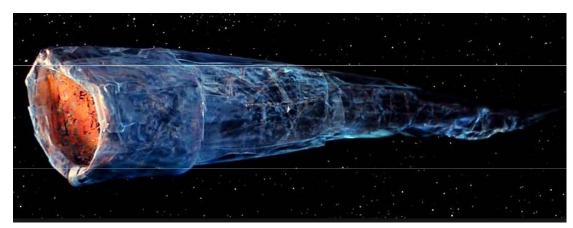




October Observing Challenge Object: Doomsday Machine

- ■Magnitude +15
- Large blue shift
- Closing rapidly
- ■IR filter helps







Celestial Events to Note: A Month of Conjunctions

- October 11th: Peach State Star Gaze
- October 12th: New Moon
- October 18th: Mars/Jupiter Conjunction 0.4°
- October 26th: Venus/Jupiter Conjunction 1.1°
- October 29th: Moon/Aldebaran Conjunction 0.6°
- ■November 2nd: Venus Mars Conjunction 0.6°
- November 14th: CE Astronomy Club Meeting



Clear Skies!