



# All of The Above



Presents

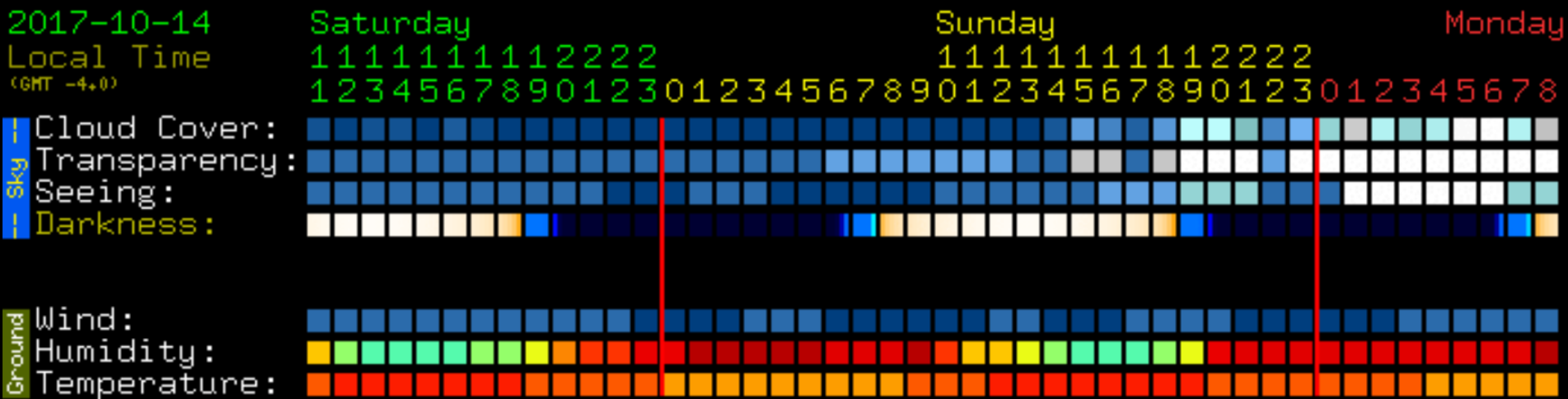


October 2017



# Current Conditions at Jon Wood Field

## Charlie Elliott WLC Clear Sky Chart



© 2017 A.Danko. forecast: A.Rahill data: Environment Canada / Environnement Canada

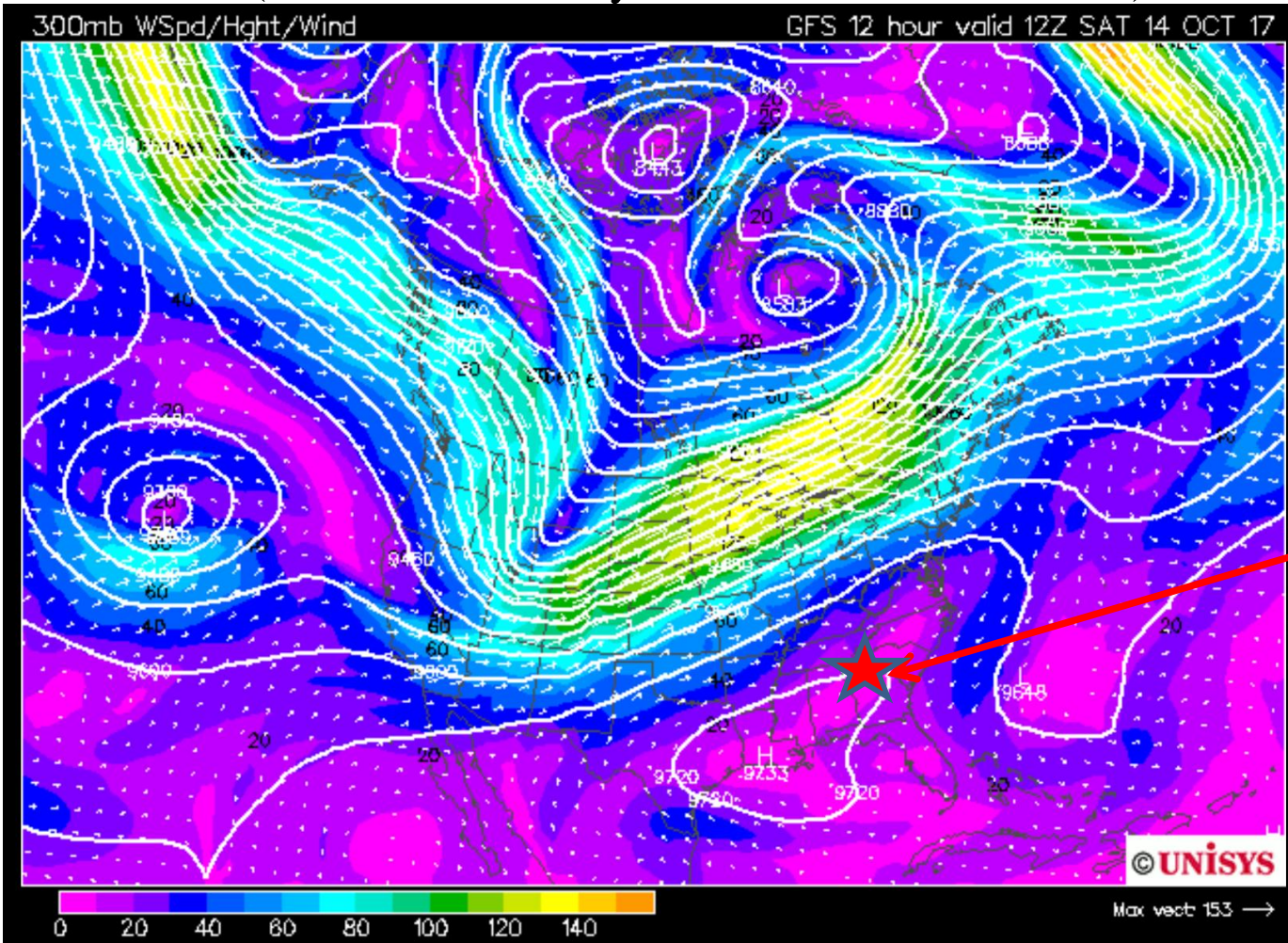
Does not consider forest fire smoke.





# Current Conditions at Jon Wood Field

(Jet Stream data by [www.weatherstreet.com](http://www.weatherstreet.com))



You are Here

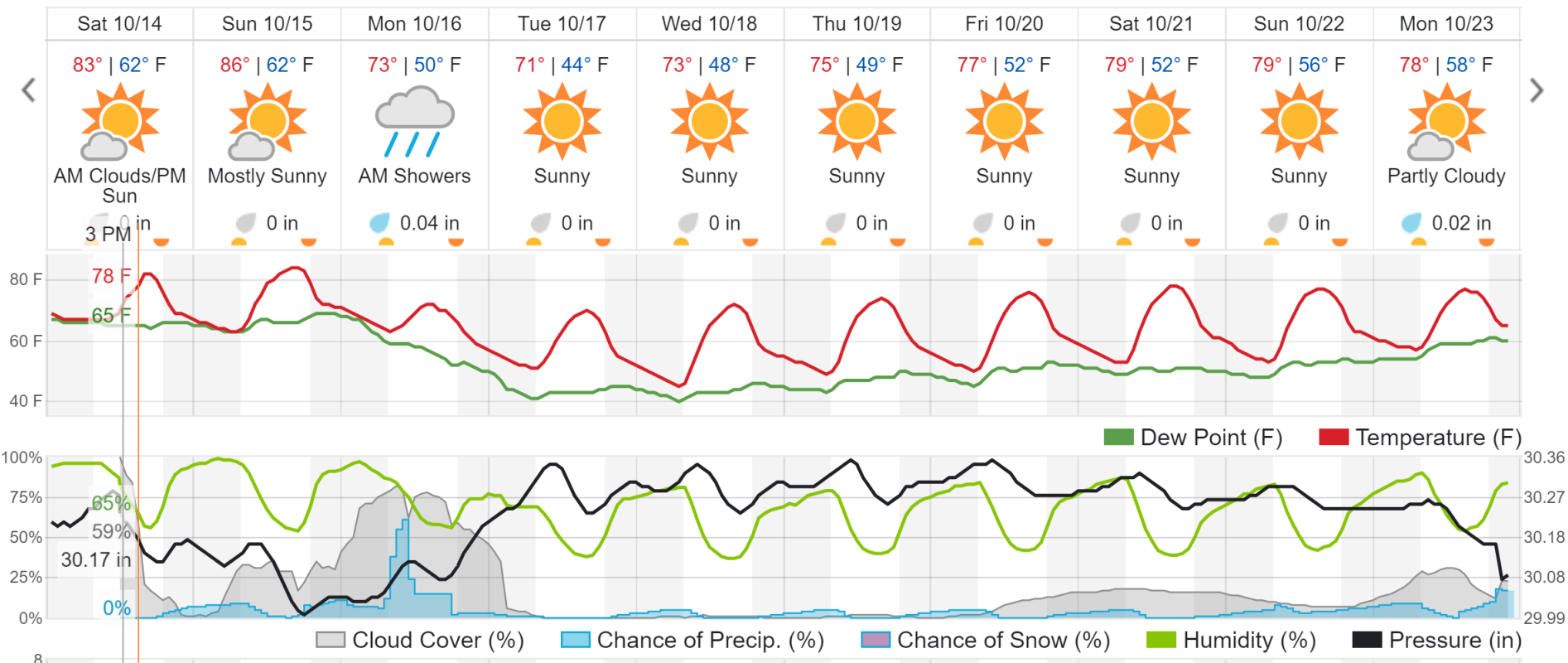
© UNISYS

Max vect: 153 →



# Forecast for Jon Wood Field

(Weather forecast data by [www.wunderground.com](http://www.wunderground.com))





# The Solar System: October 14, 2017

Body	Constellation	Rise	Set	When to View
Sun	Virgo	7:40 AM	7:03 PM	Between dawn and dusk
Moon	Leo	2:24 AM	4:16 PM	Daytime
Mercury	Virgo	8:00 AM	7:16 PM	Nope
Venus	Virgo	5:59 AM	6:12 PM	Morning Star in the East
Mars	Virgo	5:35 PM	5:56 PM	Next to Venus
Jupiter	Virgo	8:26 AM	7:31 PM	Too close to the sun now
Saturn	Ophiuchus	12:33 PM	10:31 PM	Evening in the SW
Uranus	Pisces	7:12 PM	8:12 AM	All night long
Neptune	Aquarius	5:15 PM	4:40 AM	Ditto
Pluto	Sagittarius	2:14 PM	12:18 AM	Please, spare me.





# The Solar Update

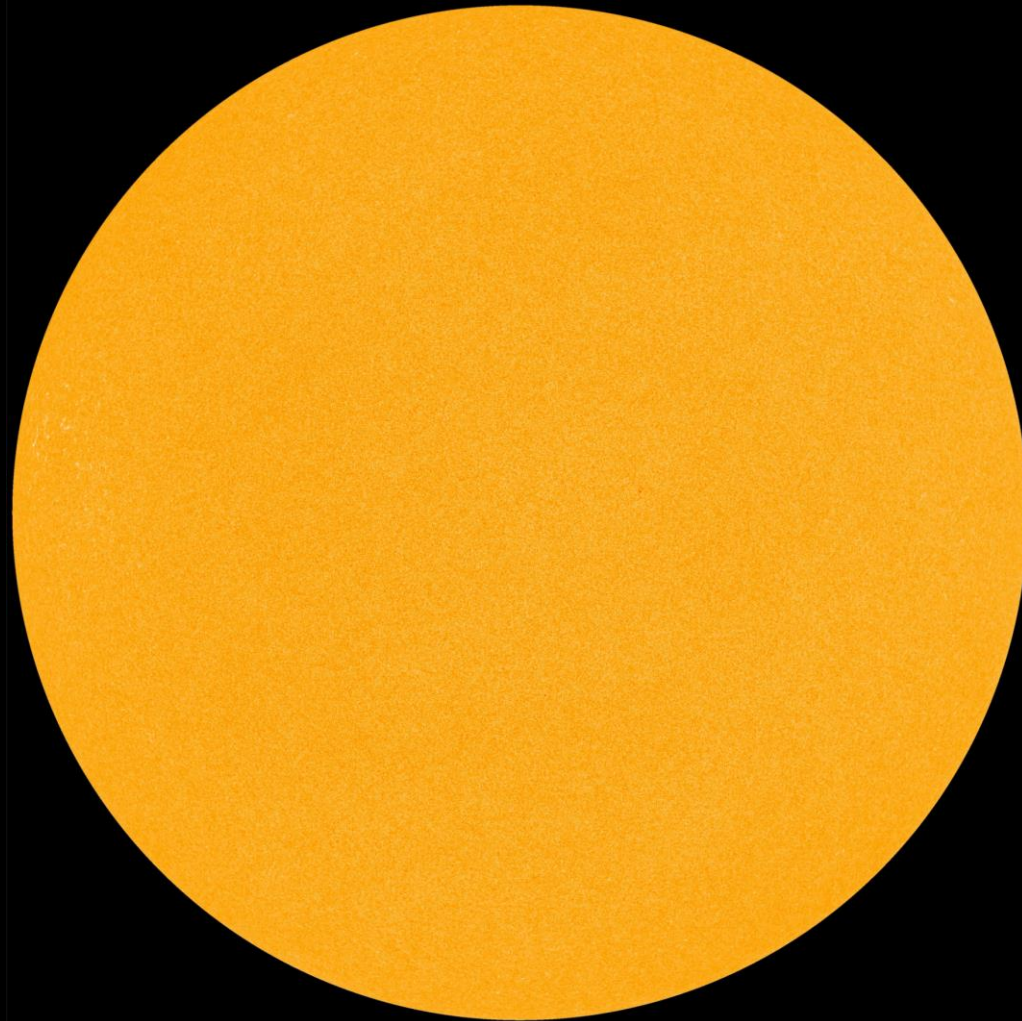






# The Sun: October 14, 2017

Solar image by [www.spaceweather.com](http://www.spaceweather.com)



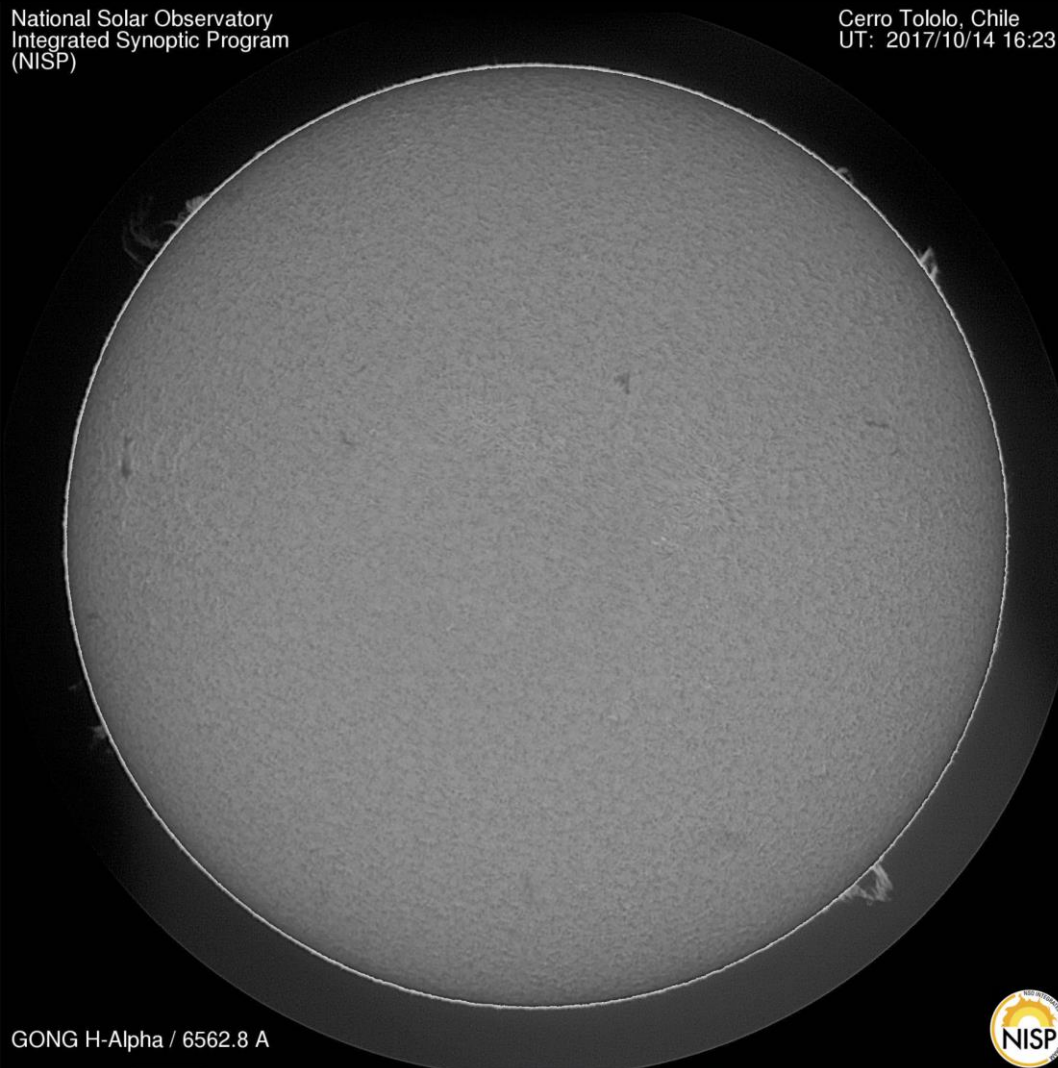


# The Sun-H $\alpha$ : October 14, 2017

Image by [www.gong2.nso.edu](http://www.gong2.nso.edu) – Cerro Tololo, Chile

National Solar Observatory  
Integrated Synoptic Program  
(NISP)

Cerro Tololo, Chile  
UT: 2017/10/14 16:23



GONG H-Alpha / 6562.8 A





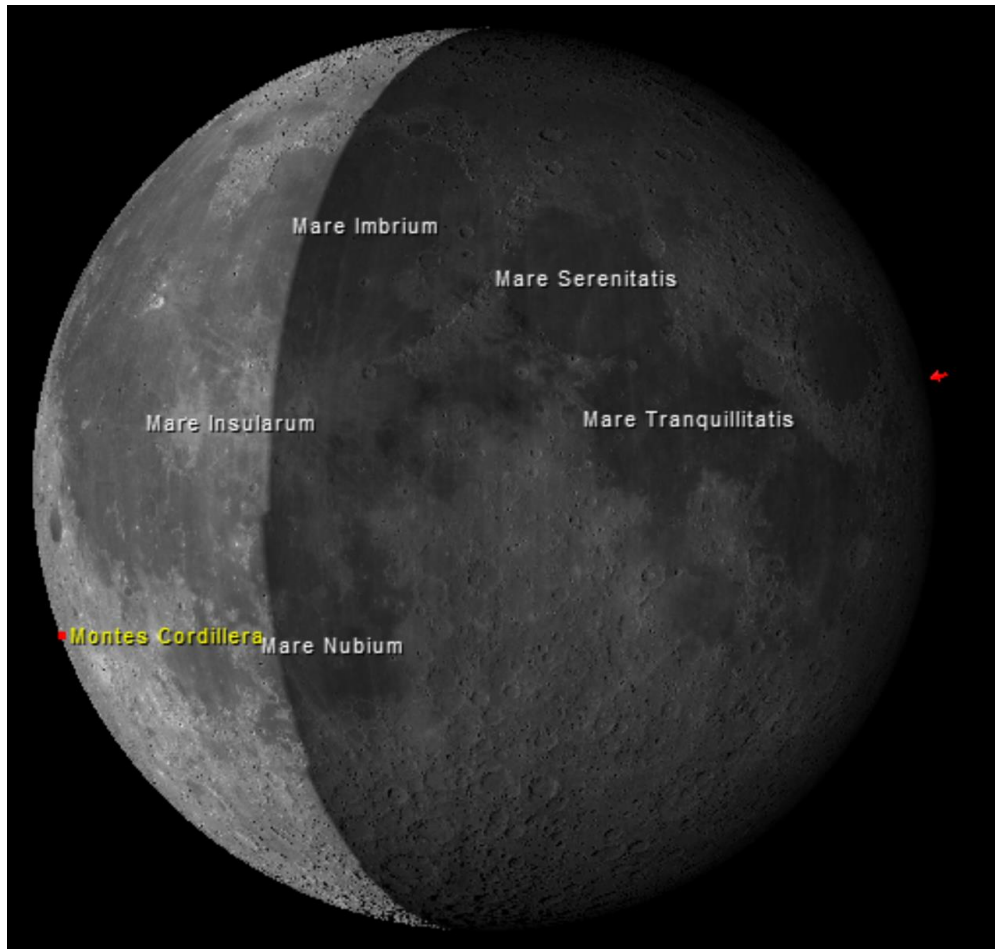


# **Time for the Lunar Update!**





# The Moon: October 14, 2017



**Lunation: 25 Days**

**Illumination: 25.4%**

**Distance:**

**237,493 mi**

**382,209 km**

**1.27 Light Second**

**Apparent Diameter: 31.3'**

**Location: Leo**



# Lunar Events for October/ Early November

- **October 19<sup>th</sup> – New Moon**
- **October 24<sup>th</sup> – Moon at Apogee**
- **October 27<sup>th</sup> – 1<sup>st</sup> Quarter**
- **November 4<sup>th</sup> – Full Moon**
- **November 5<sup>th</sup> – Moon at Perigee**
- **November 10<sup>th</sup> – Last Quarter**





# The Planet Update



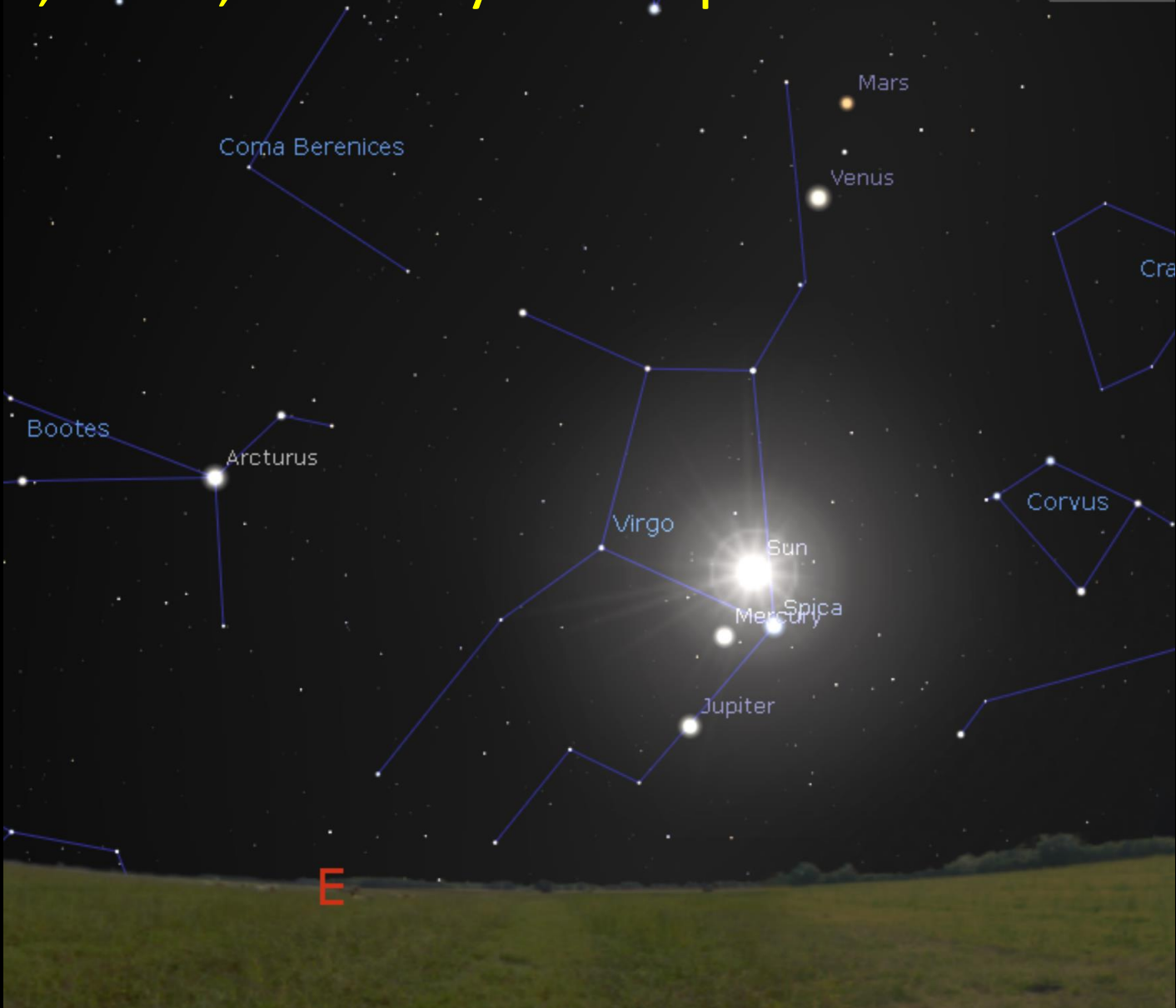


# Saturn in the Evening





# Venus, Mars, Mercury and Jupiter in the morning



Coma Berenices

Mars

Venus

Cra

Bootes

Arcturus

Virgo

Sun

Corvus

Mercury

Spica

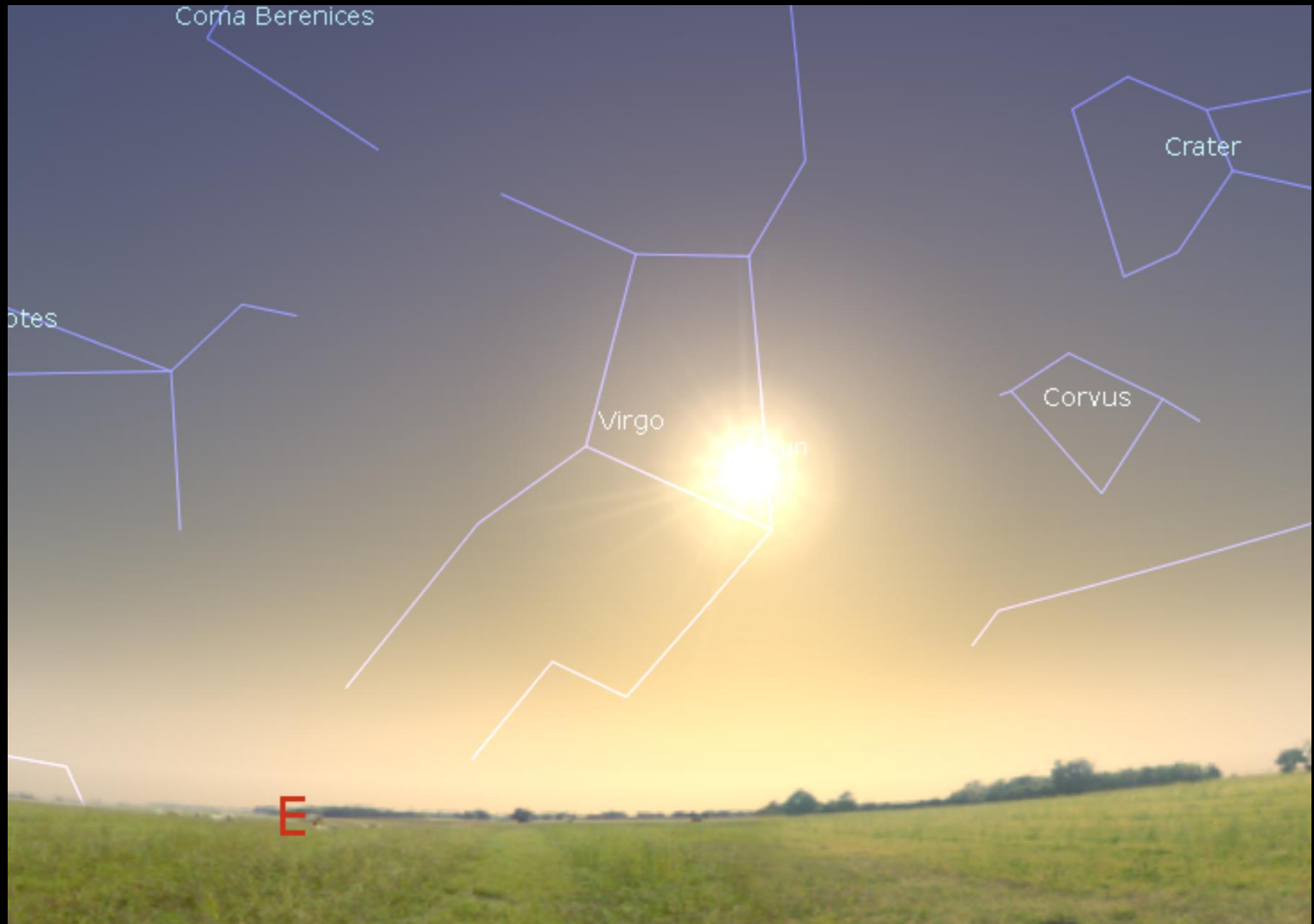
Jupiter

E





# Venus, Mars, Mercury, Jupiter...and the SUN in the morning





# Jupiter / Venus Conjunction 11/13/17 0.3 Degrees



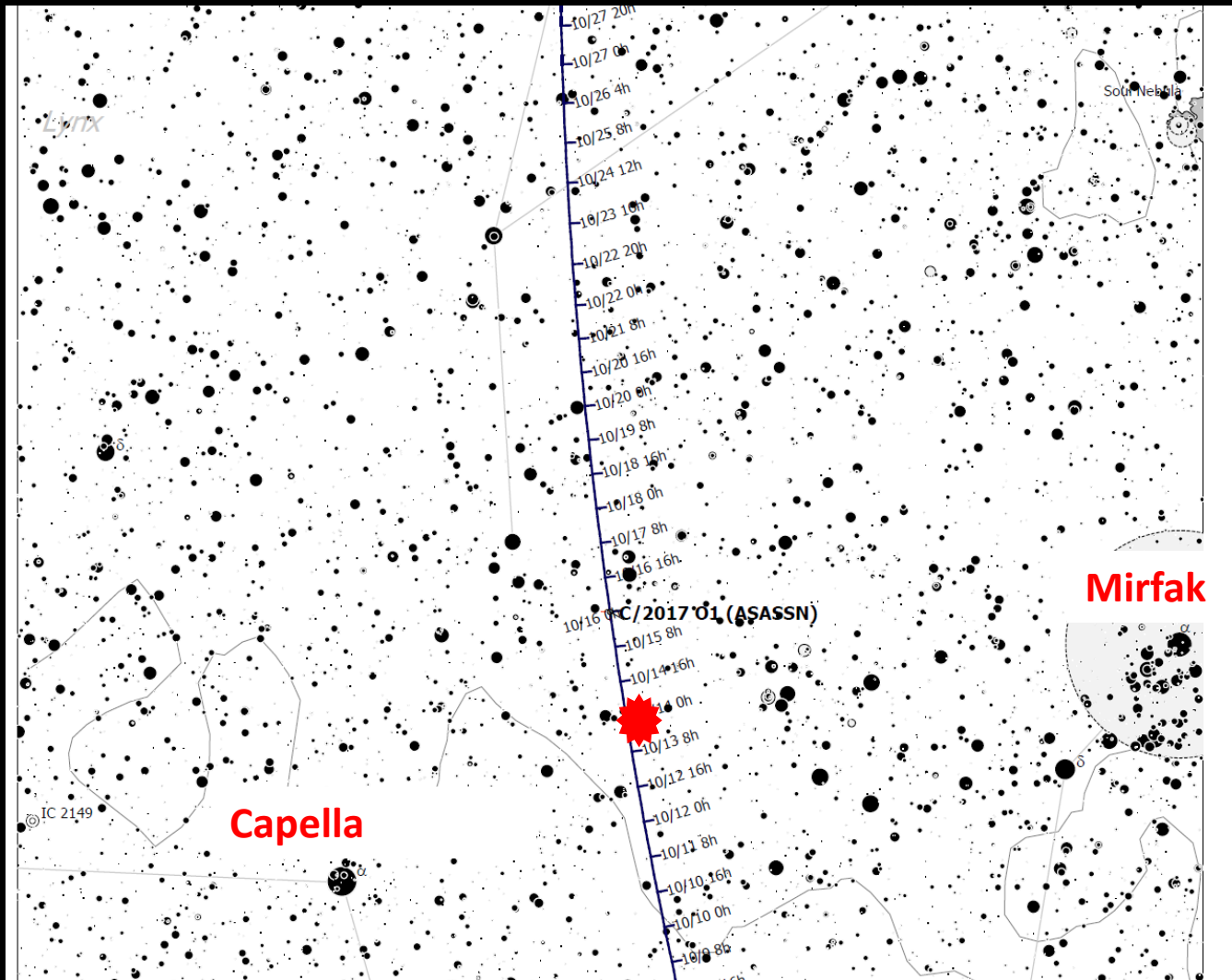
E

Date and Time [X]

Date and Time	Julian Day
2017 / 11 / 13	6 : 26 : 24



# Comet C/2017 O1 (ASASSN1)







# Constellation Update

## Last Chance for the Jon Wood Field

Hercules  
Draco  
Scutum

Aquila  
Ursa Minor

## High in the Sky (neck breakers):

Piscis Austrinus  
Sculptor  
Aquarius  
Pegasus

Lacerta  
Cassiopeia  
Andromeda

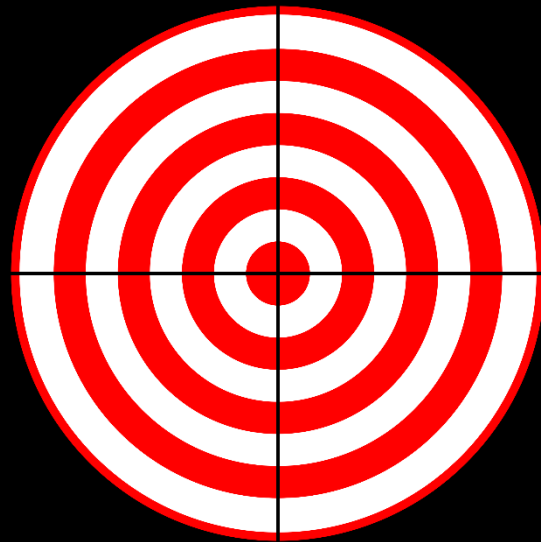
## Fresh from the East:

Camelopardalis  
Perseus  
Pisces

Triangulum  
Aries  
Cetus








# October/November Target Lists





# October Target List: Relaxing

## Piece of cake






Target	Type	Constellation	Notes	Image
M34	OC	Perseus	Look just below Gamma And Magnitude +5.5, 34'	
M76	PN	Perseus	The Little Dumbbell: Mag +10.1, 2.7' x 1.8'	
Melotte 20	OC	Perseus	Alpha Persei Cluster: Very large cluster surrounding Mirphak	
Algol	VS	Perseus	Classic variable star in Perseus. Mag +2.1 – +3.4, period - 2.86 days, Duration- 5 hours	
NGC 869/884	OC	Perseus	Naked eye target, easily located, Use low magnification.	










# October Target List: Intriguing

Small to medium telescopes

Target	Type	Constellation	Notes	Image
M33	GX	Triangulum	Very large, face-on spiral galaxy between Triangulum and Andromeda. Mag +5.7? NO WAY! LIES!!	
NGC 288	GC	Sculptor	Diffuse globular cluster in Sculptor. Mag +9.3, 13.8', Class X	
γ Ceti	DS	Cetus	Tough double star: Mag +3.4, +6.6, @ 2.6"	
M77	GX	Cetus	Spiral Galaxy (aka NGC 1068): Mag +9.6, 7' x 6',	
M74	GX	Pisces	Spiral Galaxy (aka NGC 628): Mag +10, 10.5' x 9.5'	



# October Target List: Taxing Light Buckets

Target	Type	Constellation	Notes	Image
$\alpha$ Piscium	DS	Pisces	Alrescha: Brutal double star at the tip of Pisces. Mag+4.4, 5.2 @ 1.8"	
NGC 1275	GX	Perseus	Perseus A (Caldwell 24): Mag+12.6, 2.2' x 1.7', center of Perseus galaxy cluster	
IC 1805	NB	Cassiopeia	Heart Nebula: Mag +18.3 – Really not a visual target.	
IC 1848	NB	Cassiopeia	Soul Nebula Cluster: Open cluster in the nebulosity. Forget the nebula for visual observing.	
NGC 55	GX	Sculptor	The other edge on galaxy in Sculptor: Mag +7.87, 32' x 5'	



# Observing Challenge of the Month

## NGC 404 – Ghost of Mirach

- Located in Andromeda
- Close to Mirach
- Mag +11.2
- 10M Light Years
- 3.5' x 3.5'





# Daylight Savings Time Ends November 5th



**Don't forget to reset your mounts to  
the correct time zone (UT-5)**





# Celestial Events to Note:

- **October 15<sup>th</sup> – PSSG begins**
- **October 19<sup>th</sup> – Uranus at Opposition**
- **October 21<sup>st</sup> – Orionid Meteor shower peaks**
- **October 26<sup>th</sup> – Jupiter in conjunction with the sun**
- **November 5<sup>th</sup> – Daylight Saving Time ends**
- **Oct-Nov – Comet C/2017 O1 ASASSN1 moves toward Polaris**
- **November 18<sup>th</sup> – Next CEA meeting (constellation class will resume)**



# Clear Skies!

