

www.holland-saaa.org The Shoreline Observer June 2024

CLUB NOTES

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Club Notes - June 2024

As summer approaches SAAA activity slows down in certain respects but speeds up in others. Aa I mentioned last month, we have two programs scheduled for this summer at Holland State Park, one in July and one in August (our regular program for June, Museum Under the Stars has been cancelled). In order for these programs to be successful. we need to have several members bring their telescopes to set up on the beach for visitors. Please let me know if you are able to participate in this program.

Our regular observing nights at Hemlock Crossing are unchanged and can be found on our web site. I look forward to working with members to accomplish our summer goals.

Peter Burkey President, SAAA



The Night Sky: June

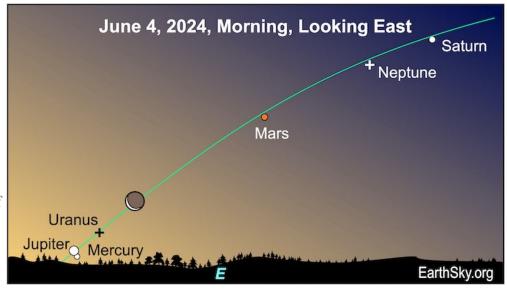
This month the morning sky will include a number of planets and deep sky objects. For you early risers (sightings are more likely around 5:30 am), be sure to look toward the southeast portion of the sky, near the horizon. You should be able to spot both Mars and Saturn before the sky brightens too much. As the morning progresses, look for Jupiter to the lower left of Mars, near the horizon. Binoculars are recommended for spotting these objects.

Returning to the evening sky, as Leo drifts toward the western horizon, see if you can spot the constellations

of summer, located in the eastern half of the sky. Bootes, Corona Borealis, and Hercules should be visible fairly high in the east. While you're at it, see if you can also spot both the Coma and the Hercules Clusters.

Hopefully the weather will cooperate and we'll be able to enjoy what's up in the sky.

[Ed: photo of morning is curtesy of EarthSky.org, and June sky pg 7, are also EarthSky.org; used without permission and provided for those of us who are still learning; editor made a donation.]



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Calendar and Upcoming Events

Public Observing

When Weather Permitting Every FRI evening 7PM.

Where Hemlock Crossing Public Observatory, 8115 W Olive Rd, West Olive, MI 49460, USA

Description The observatory is open from our start time until 11 PM (weather and clear sky permitting, see note above after October 14th). There are no entry fees. Please be aware that the park gate closes automatically at 10 PM sharp, therefore visitors must arrive before 10 PM to enter the park. You will be able to leave as you wish.

Visible night sky objects: planets, the Moon, deep sky objects like galaxies, star clusters and planetary nebulae.

Next Club Meeting September 12th

There are no club meetings in the summer months (June – July – August). Our next Club Meeting, which is open to all club members, is September

Have you missed a copy, or lost one, or just want to browse old issues of Astronomical League's *Reflector*? **Astronomical League's quarterly** *Reflector* **magazine:** https://www.astroleague.org/reflector/

SAAA events June 2024 👻 Print Week Month Today • Agenda 🔽 Sun Mon Tue Wed Thu Fri Sat 1 26 27 28 30 31 Jun 1 9pm Public Obs For More Information on Any Event Please 90 to www.holland-saaa.org 6 7 8 9pm Public Obs 9pm Public Obs 13 🕐 14 15 9pm Public Obs 20 🕐 21 22 9pm Public Obsi 27 🖱 28 29 9pm Public Obs 3 5 30 Jul 1 2 4 6 9pm Public Obsi





Space Place: <u>https://spaceplace.nasa.gov/</u> A place where kids and grown-ups have fun with space and technology.

NASA Climate Kids: It's all about climate. https://climatekids.nasa.gov/





SciJinks: It's all about weather! https://scijinks.gov/

Club History Moment: From April 1991

the Dew Point Chart which appeared with this is printed on page 5 and see also, from SciJinks, a companion "kids" article page 6

The Dew Point

I would like to point out the significance of the lew point temperature, which I recommend you watch daily. The dew point is an accurate measure of the moisture content of the air and is a dependable indicator of the comfort levels of the air on any given day.

The dew point is the temperature at which the air becomes saturated (100% relative humidity) for the level of moisture in the local air mass. It will therefore show you the potential for the lowest value to which the temperature will drop overnight. How so? Because, when the temperature reaches the dew point, the air becomes saturated. Dew or fog will form at that temperature and the temperature fall stops as the moisture is condensing (all over your eyepieces, lenses, etc! Hence the expression 'dew point' in reference to that temperature reading.

When the dew point is below 32 F (or freezing) it becomes the 'frost point' temperature and cooling to that level produces frost on exposed surfaces. By the same token, flesh exposed to the air re--ponds as musch as to the dew point as it does to use air temperature. Recall that the body's natural air-conditioning system functions through the evaporation of perspiration. When dew points are high, i.e., in the upper 60S and 70s, there is For example, as the temperature on any given day goes up, warmer air has a greater capacity to hold moisture. So the relative humidity goes down but the actual amount of moisture in the air remains the same with completely misleading results as far as comfort levels go.

On a typical summer day in Florida, the dew point in the pure tropical air is likely to be 75 F. Also, after overnight cooling, the air temperature could cool to 75 F. At that point the relative humidity is 100% - the temperature and dew point are the same. By mid-afternoon, however, the temperature may be up to 95 F with a corresponding drop in the relative humidity to as low as 50%. Now, are we going to feel more comfortable?-Not likely! This is because the dew point will still be reading an oppressive 75 F. Excessive moisture in the air has not changed, only the number we call the relative humidity - and a number is not much relief from the smothering summer heat. If the dew point (or "frost"point) is below the freezing level (32 F), prolonged exposure to modest breezes can bring the threat of frostbite to exposed flesh. The lower the dew point and the stronger the wind, the greater the threat. This is the area in which the "wind chill" factor of which

you hear so much over the winter months comes into its own; as a predictor for potential frostbite in winter sports enthusiasts and other outdoor types. See...now you can be your own forecaster...and be a lot more "weatherwise" than before, if you'll learn to watch the dew point!

WALLY KINNAN

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Date	Time	Title	Presenter			
Date	Time	Title	Flesentei			
Jun 8	dusk	Observatory: Public Night	SAAA Members			
Jul 13	dusk	Observatory: Public Night	SAAA Members			
Aug 10	dusk	Observatory: Public Night	SAAA Members			
Sep 14	8 pm	Lecture: Astronomy in Art	Frank Roldan			
Oct 12	7 pm	Lecture: Finding Things in the Night Sky	Barry Schoenfelner			
Nov 9	7 pm	Lecture: Telescope Basics	Frank Roldan			



Photograph left is from the Hubble Space Telecrope/NASA ©. The image is from 5/18/24 and shows the Dawn of a Sun-like Star This NASA Hubble Space Telescope image captures a triple-star star system.

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Editor is appointed by the SAAA board. Email: barbwbrown@hotmail.com Previous Issues of our newsletters are found on our website at: Holland-saaa.org

Not sure received your copy of Reflector, or, looking for a past issue? Digital copies of the Astronomical League's quarterly Reflector magazine: can be found at:

https://www.astroleague.org/reflector/



This Month in History

June 2: Surveyor 1 lands on the Moon - 1965

June 5: Regular observations of Neptune begun by Voyager 2 - 1989

June 10: Mars rover "Spirit" launched - 2003

June 16: Valentina Tereshkova first (and only solo) woman in space - 1963

June 18: Sally Ride becomes first American woman in space - 1983

June 22: Evidence of liquid water on Mars announced by NASA - 2000

June 30: Tunguska impact flattens hundreds of miles of Siberian forrest - 1908

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Relative Humidity																	

DEW POINT TABLE

