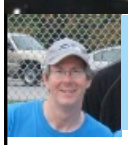
Event Horizon

Volume 32, Number 8
June 2025



From The Editor

Here's the June edition of the Event Horizon. It covers the entire summer, with extended information about astronomical events over the next 3 months.

Have a great summer, and see you in September!

Clear Skies!

Bob Christmas,
Editor
editor 'AT' amateurastronomy.org

Chair's Report by Sue MacLachlan

I can't believe that I am already writing the June message! Where did the spring go? I am sure that many of you are looking forward to the warmer weather to really get into the swing of summer.

As you probably know, since the Annual meeting in October 2024, Council has been working on gathering information about changing from an association to a not-for-profit corporation under the Canada Not-for-Profit Corporations Act (2009). Some of us met with our lawyer in late April and, as a result, the Council is now ready to proceed with filing the articles of incorporation. At the General meeting in May as part of our preparation for the change, Council proposed a motion to make two, single word changes to the club's by-laws. The motion to change the wording of two by-laws was easily carried. The updated by-laws can be found on the HAA website.

Following the May monthly meeting, an email was sent to the membership providing 30 days notice that a resolution to file the articles of

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IN THIS ISSUE:

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Chair's Report (continued)

incorporation will be put forward for a vote at the June 13, 2025 monthly meeting. The filing of these documents will change the HAA from an association to a not-for-profit corporation under the Canada Not-For-Profit Corporations Act (2009).

There are some significant benefits that we will obtain from this change. First and foremost, everyone in the club has much more protection from liabilities that might arise from our club activities. Second, the club will be able to actually own property such as telescopes, library books, etc. And third, as a legal entity, the club will be able to enter into contracts such as leases or rental agreements.

Please consider joining us on Friday June 13, 2025 either in person or on Zoom to ask questions and participate in the voting process.

Council has also approved the filing of a request with the Canada Revenue Agency to change our fiscal year end date from October 31 to March 31, 2025 to correct the problem with not having year end financial statements ready for the Annual meeting in October.

Looking ahead into next year, the Council has started to book speakers, set dates for clinics and make decisions about outreach. If there is a speaker that you know of and would like us to contact, please let me know chair@amateurastronomy.org.

Upcoming Events

Friday June 13 - General meeting

- Our own world famous Mario Carr will be speaking to us. His fascinating presentation is called *Our Cosmic Connection: How the cosmos has influenced life on Earth*.
- Motion to file the articles of incorporation will be presented to the membership.

Saturday August 9 - Annual HAA Picnic and public Perseid night.

- Binbrook Conservation Area Pavilion #3 3:00 pm - ?
- Potluck Dinner: 6:00 pm (bring your own beverages, plates, cutlery and serving utensils)
- No park entrance fee for HAA members (but be ready to show membership card)
- Solar viewing during the day
- Evening meteor shower and observing with the public
- Volunteers are needed to bring telescopes, help direct visitors who need to park cars, and answer questions from the public

Friday September 12 - General meeting

- Keep your eye out for a potential exciting follow-up from one of our speakers from last year. His schedule has yet to be confirmed so I cannot tell you who it will be… yet.

Friday September 19 - HAA Dark Sky Star Party

- Friday September 19 to Sunday September 21, 2025
- Held on private property outside of Wiarton, Ontario
- Registration is now open

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Masthead Photo: *NGC 4631 ("The Whale Galaxy") & NGC 4656 ("The Hockey-Stick Galaxy") in Canes Venatici*, by *Marc Fitkin*.

Taken on May 19, 2025 with a ZWO Seestar S30 imager (focal ratio f/5). North is to the left.
Total exposure time: 60 minutes.

Chair's Report (continued)

- Cost: $25 per adult, $37.50 for 1 adult and any accompanied children under 18
- Details about the weekend can be found on the HAA website

Midnight, Sunday September 28th - Calendar Image Submission Deadline

- Our calendar editor is once again looking for submissions for the 2026 Celestial Events Calendar. Questions and pictures can be sent to Doug at calendar@amateurastronomy.org. Instructions for sending pictures to Doug can be found on pages 5 and 6 of this newsletter.
- In addition, we are also looking for an apprentice Calendar editor. If anyone is interested in taking over the calendar after the next edition, please reach out to Doug at the address above.

Friday October 17 - General meeting

- Both myself and Paula Owen, our Membership Director will be stepping off of our club's Council. So, at this point both the chair and membership positions are open. Anyone who might be interested in volunteering on next year's Council is encouraged to contact me.
- There will also be a short presentation by Matteo Statti who will share his research on Rev. D.B. Marsh's telescope.

In addition to the preceding dates, keep watching your email for a few pop-up sidewalk astronomy events that may happen over the summer months.

As always, I look forward to seeing everyone on Friday June 13th at St. Matthew's-on-the-Plains Anglican Church at 126 Plains Road E. Burlington and on Zoom for those who cannot attend in-person.

Clear skies,

Sue MacLachlan *chair 'AT' amateurastronomy.org*

Calling All Telescope Enthusiasts! Share Your Gear and Experience in Our New Segment: "Talking Telescopes"

We're launching an exciting new segment for our club's YouTube channel called "Talking Telescopes"! This is your chance to showcase your equipment, share how you use it, and pass along tips and lessons learned. Whether you're working with a trusty beginner scope or a high-end astrophotography setup, we'd love to hear your story.

These short interviews will be filmed around 7:00 pm at St. Matthew's-on-the-Plains Church just before our monthly meetings (during setup time) and are a great opportunity to inspire fellow members and new astronomy enthusiasts alike. It's a fun and informal way to highlight the diversity of approaches and experiences within our community.

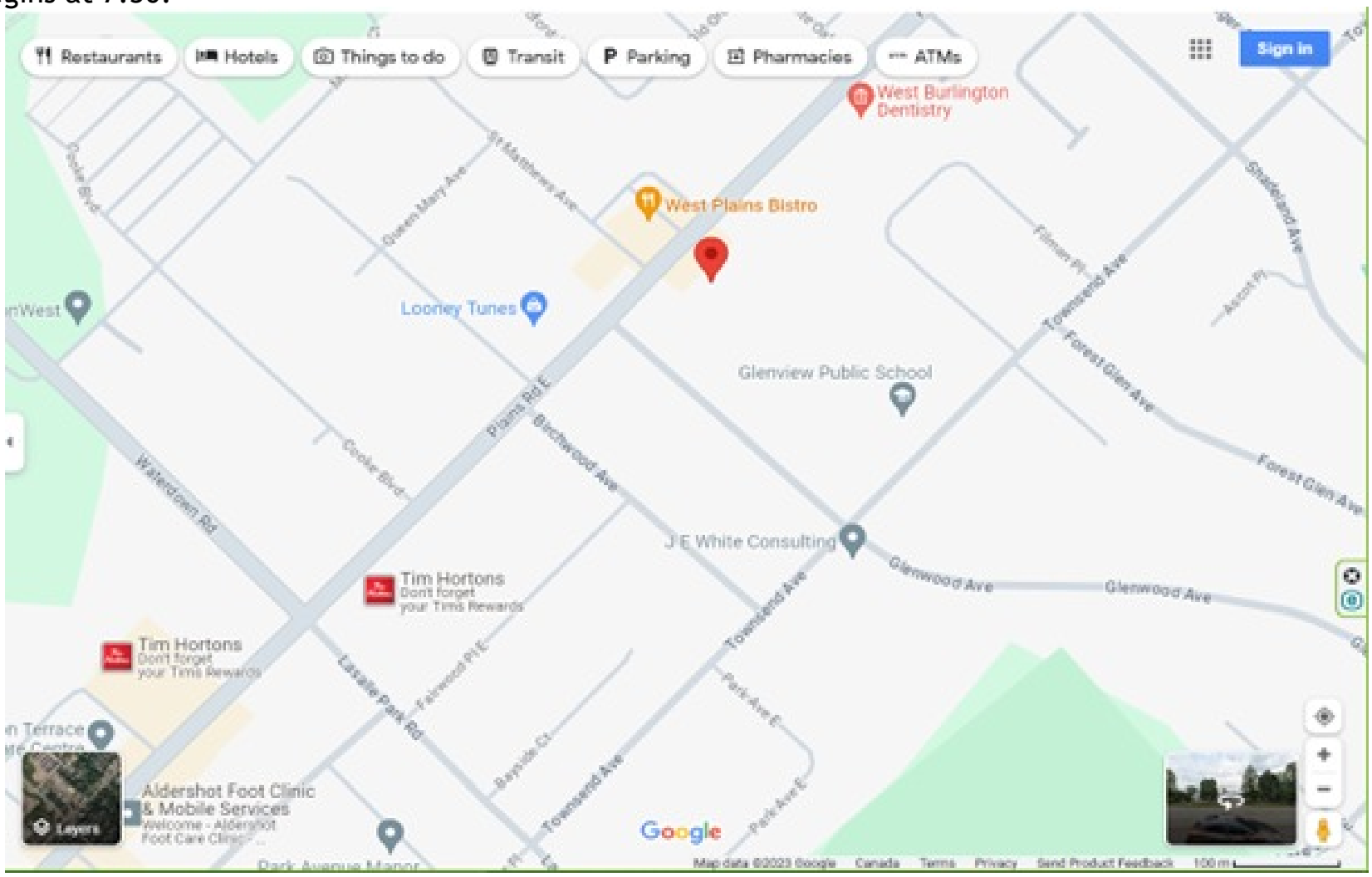
Interested in being featured? Please reach out to ***Chris Szaban*** at

talkingtelescopes@amateurastronomy.org

to schedule a time. Let's show the world what makes the Hamilton Amateur Astronomers so incredible!

Meeting Location

Our upcoming meeting is scheduled for *June 13th, 2025*, at St. Matthew's-on-the-Plains Anglican Church. St. Matthew's is located at 126 Plains Road East, Burlington, Ontario. Doors open at 7:00 and the meeting begins at 7:30.

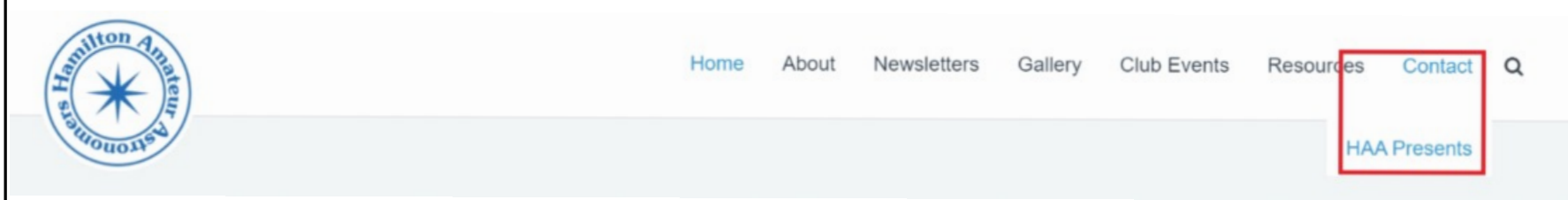


St Matthew's-on-the-Plains Anglican Church (indicated with red locator)
Image generated using Google Maps

"HAA Presents"

Members of the public of any age in the GTHA can now request an in-person or virtual presentation from the HAA directly on our website.

Simply navigate to www.amateurastronomy.org and select "Contact" from the top menu bar and then click on "HAA Presents" (see image below). You will be presented with a request form and once all required fields are entered, click on the "Submit" button and you will see a confirmation message that your request has been successfully submitted.



Once received, our Public Education Director, Jo Ann Salci, will respond to your request within 5 business days to discuss next steps. If you have any questions, feel free to send an email to: haapresents@amateurastronomy.org.

2026 HAA Celestial Events Calendar Image Submission DEADLINE
Midnight, Saturday, September 28th, 2025

Starting now, please feel free to submit as many images as you like to
calendar@amateurastronomy.org

Other than the weather, the only photographic limit for a calendar submission is your own imagination for incorporating some astronomy related items in to an image. Plus, you don't have to wait until ***midnight on September 28th, 2025*** to send in your photographs. It's not too soon, there already have more than half a dozen image submissions!

Send as many of ***your own photos*** as you like BUT *please don't send in any images that have already been printed in one of our past Calendars*. As you probably know, there is a limited amount of space in our calendar so we may not be able to print all of the images that you submit. But that's OK because there is always next year for any images that do not get selected this time around as they can be resubmitted to a future calendar.

When submitting an image, if it image is over 10 megabytes then please send it (or them if there are multiple images) via a download link such as *WeTransfer* or *DropBox*. Images that are less than 10MB can be submitted through email provided the total size of all of the included images is less than 10MB per email. When submitting by email, please send the images as attachments rather than as items embedded in the email.

Submissions (or download links) should be sent to calendar@amateurastronomy.org along with a short description of the main subject of your image, e.g., "M8", "Zodiacal Light", or "Total Lunar Eclipse" and its associated file name. We need to be able to make sure that we get the right description with the corresponding image.

The technical guidelines for submitted images are found below but please consider these to be guidelines only. Images that do not meet these guidelines are more than welcome. However, the more an image varies from the guidelines, the more likely that reproduction quality of the image will be disappointing. Also, if you have any questions about the guidelines or terms used below, please feel free to contact the editor at calendar@amateurastronomy.org.

Finally, here's a pre-emptory **THANK YOU to everyone** who takes an astronomy related photograph. Even if you decide not to submit your images to the HAA Calendar your pursuit of an image helps us all.

Ed.

Technical Guidelines

1. ***** Orientation *** - Landscape**, i.e. the image is wider than it is tall. Non-landscape images will likely need to be cropped to fit onto a calendar page.
2. **Aspect Ratio** – 1.294:1, or 11" (28cm) x 8.5" (21.6cm) which is the same as letter-sized paper. As with orientation, images that do not conform to this aspect ratio will likely need to be cropped or have borders added to the edges of the image
3. **Resolution** – Our printer **strongly recommends 300 pixels per inch or higher** for best results and a minimum of 150ppi. Images with significantly lower resolution will may appear fuzzy or out of focus when printed.
4. **File Type - TIFF or PSD** files are preferred. Any images submitted that have been turned into a jpg image file format prior to submission will ALWAYS result in the loss of image quality when the image is prepared for printing.

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5. **File Size – maximum 100MB** (this would be a very large TIFF file) per file. Images over 10MB should be submitted using a file transfer service such as WeTransfer. Images under 10MB can be submitted in an email.
6. **Image Colour Depth -** 14 to 16 bits per colour channel is preferred and a minimum 8 bits per channel is acceptable. This colour depth specification applies to greyscale (blank and white) images as well.
7. I**mage Colour Space** – In order of preference, CMYK (optimal), Adobe RGB or ProPhoto RGB, and sRGB are all acceptable image colour spaces. Please note that sRGB colour space submissions will likely result in some noticeable colour shifting when printed.

Overall Image Dimensions in pixels - Items 1, 2 and 3 above result in recommended dimensions of **3375 pixels by 2626 pixels** and the minimum recommended dimensions for a full page image are 1687px by 1317px. The size requirement (both width and height) include an allowance of 3.175mm or ⅛ inch on each side of the printed page to aid in paper alignment. The printer refers to this alignment area around the outside of the image as "the bleed." Therefore it is strongly suggested that important elements of the image not be placed in the bleed area.

Images smaller than these overall size guidelines are very welcome but please be aware that images significantly smaller than 1687px by 1317px cannot be used as full page images. The absolute minimum image size requirement for potential inclusion in the calendar is 844px by 656px. An image that is between 1687px by 1317px & 844px by 656px will only have sufficient print resolution to appear on one of the gallery pages at the back of the calendar.

As mentioned above the deadline for submitting an image is ***Midnight, September 28th, 2025***.

HAA Outreach Presentations with Vulnerable Sectors

The HAA executive has created a policy for any HAA member who wishes to do outreach presentations to vulnerable sectors, which includes children under 18 years of age and vulnerable adults. This does not include our general club outreach activities.

Presentations include in-person or virtual sessions where parents/guardians may not be present. **As it is not always possible to anticipate caregiver attendance at outreach activities for children under the age of 18, or vulnerable adults, it is therefore a requirement for HAA member-volunteers who work with these vulnerable populations to complete a Police Vulnerable Sector Check**.

These can be obtained only in your region of residency. Costs vary from one area to another. They will be kept on file by the HAA Education Director. No details regarding the findings of the check will be made in any way public or viewed beyond the HAA Education Director.

The HAA will reimburse any member who wishes to do outreach presentations to vulnerable individuals, provided a receipt is submitted.

Please contact Jo Ann Salci if you have any questions about this policy and/or if you wish to put your name forward to help with outreach activities to young people! This policy is effective immediately.

HAA Dark Sky Star Party

Come and join your HAA friends for a weekend of stargazing on the Bruce Peninsula.

September 19 - September 21, 2025
Andromeda Meadow
Wiarton, Ontario

Cost: $25 per person, $50 Family
$37.50 1 Parent/Guardian & 1 child under 18

Weekend Events

- Visual observing and astrophotography opportunities
- Keppel Croft Gardens visit
- E.S. Fox Observatory visit
- Dinner onsite Saturday (optional extra cost)
- There are no lectures

Ground camping and trailer sites onsite
Motels, Cottages rentals etc. nearby

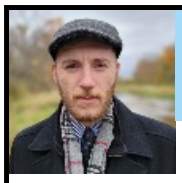
ONSITE AMMENITIES

- Portable Washrooms
- Gas generator for charging astronomy equipment only
- Gathering tent

CONTACT INFORMATION
Sue at
starparty@amateurastronomy.org
Matt at
mattmannastro@outlook.com

This is a remote site with no: water, electricity, flush toilets, showers, electical or water hookup for trailers.

REGISTRATION OPENS Saturday May 10, 2025



The Sky This Summer 2025 by Kevin Salwach

The warm weather is finally upon us, and summer is right around the corner. The days are getting longer, and the nights are getting shorter – but that doesn't mean there isn't plenty to see in the night sky this summer. Since June is our last meeting and last Event Horizon until September, this month's article will cover June, July and August – The Sky This Summer. To keep it concise and to the point, I'll be laying out the night sky and celestial events in point form below, starting close to home and venturing further out.

A big thanks to our EH Editor Bob Christmas for putting together a Sky This Month article for May on short notice.

The Sky

Let's start out on the ground looking up, and take a quick peak at the sky at midnight in the middle of each month this summer:

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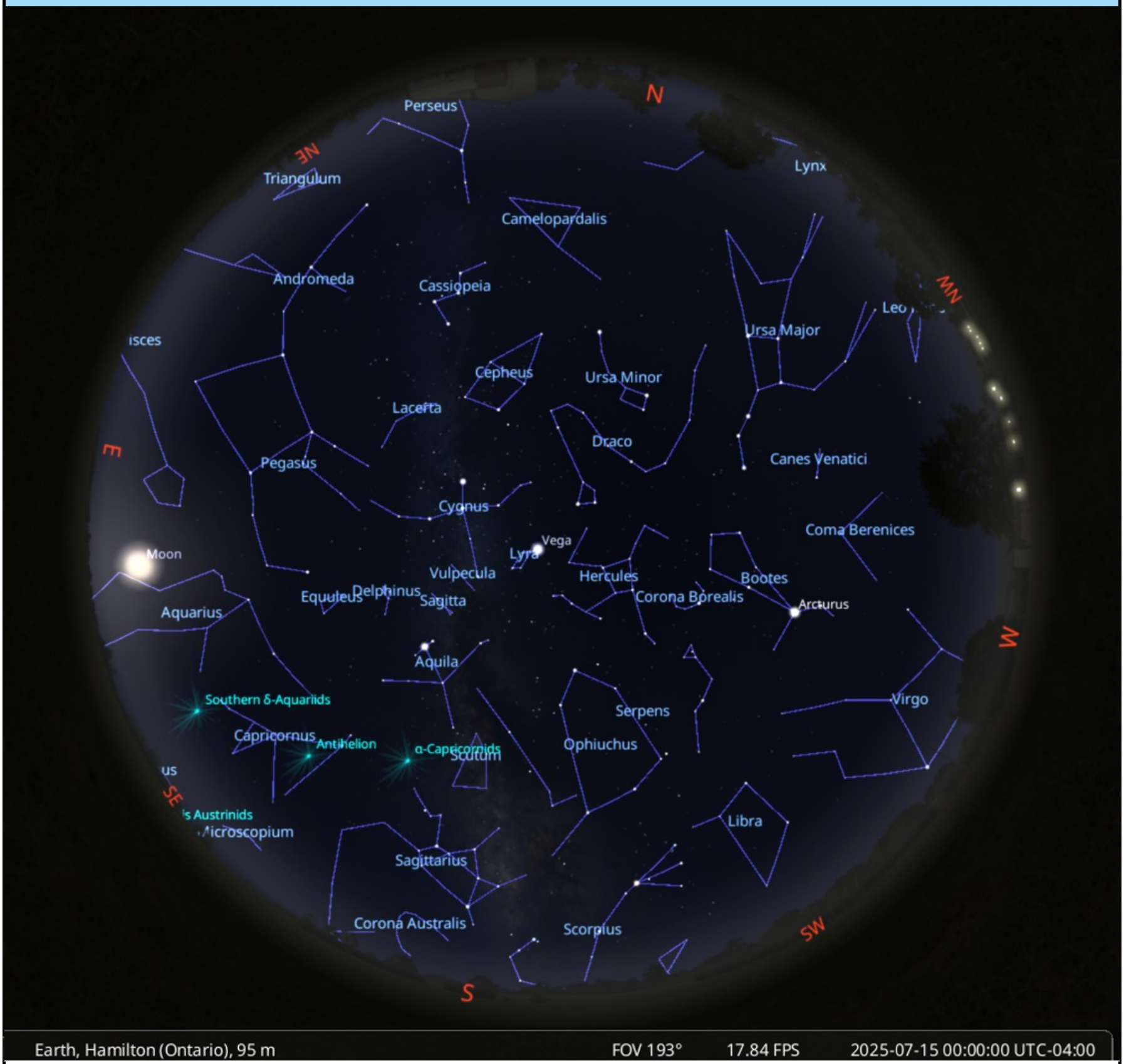
The night sky looking straight up at zenith on June 15th at midnight. The early spring constellations of Leo and Virgo are still fairly high in the west, while the late spring constellations of Bootes and Hercules dominate above. The summer constellations of Cygnus and Lyra are making their way towards zenith, while Sagittarius and Scorpius hug the southeastern horizon.

Image generated using Stellarium

The Sky This Summer 2025 (continued)



The night sky looking straight up at zenith on July 15th at midnight. The Summer Triangle is almost directly overhead, and with it all of the bright and well-known summer Milky Way objects. Sagittarius is best place almost due south, while the fall constellations have begun to slowly rise in the east.

Image generated using Stellarium

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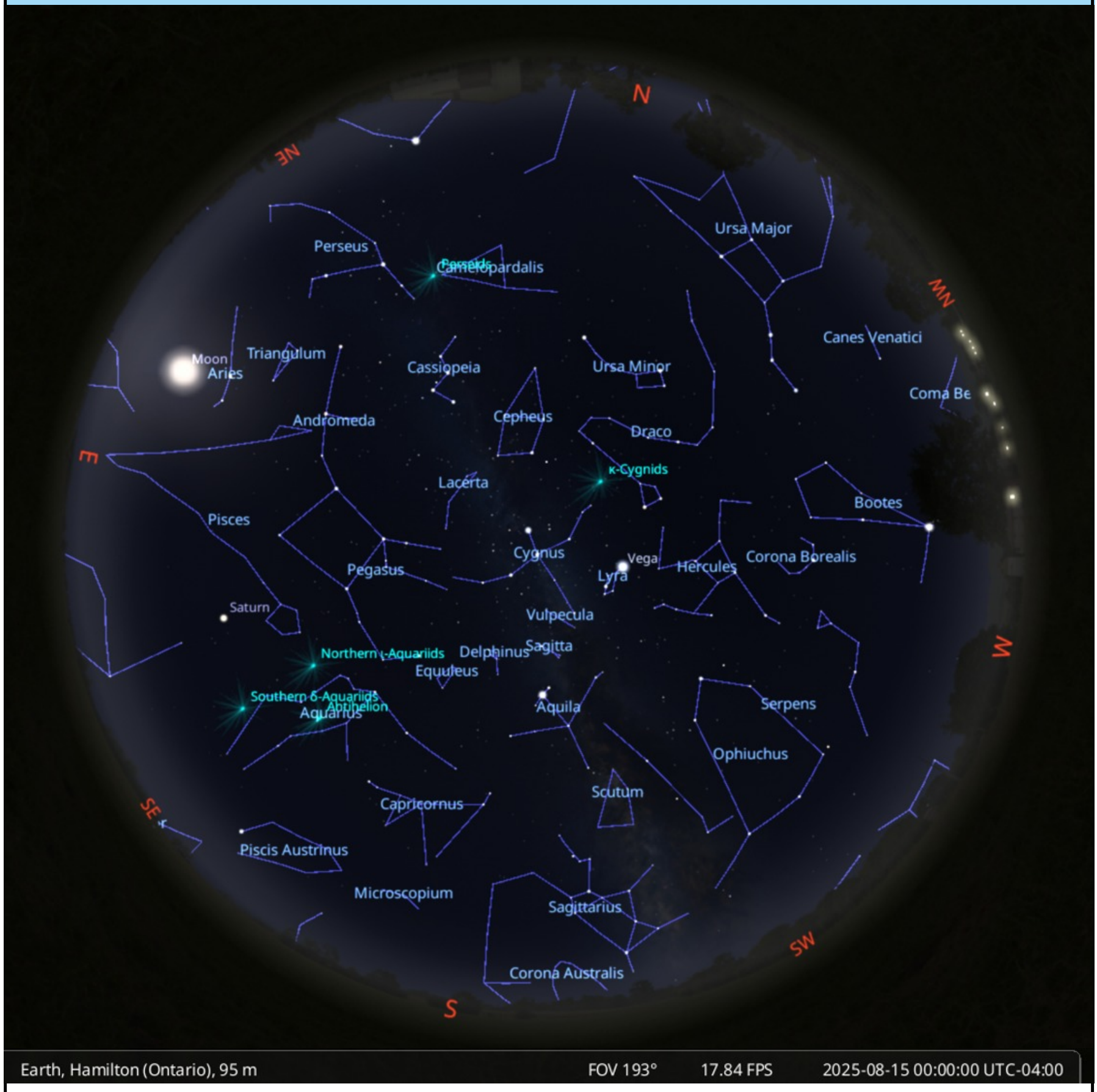
The Sky This Summer 2025 (continued)



The night sky looking straight up at zenith on August 15th at midnight. The Summer Triangle and Milky Way are now directly overhead, making for their best viewing of the year. In the east, the fall constellations have made their way up off the horizon, while in the north, Cassiopeia and Cepheus are high in the sky.

Image generated using Stellarium

(Continued on page 11)

The Sky This Summer 2025 (continued)

The Moon

The Moon in June is Full on the 11th, with New Moon on the 25th. The week of the 22-28th is your best week of the month for observing in a dark, mostly moonless sky. Some Lunar events in June to keep an eye out for:

- *May 31st/June 1st* the Moon will be within 5 degrees of Mars in the evening sky in the west and within half a degree of Regulus.
- *June 19th* the Moon will be within a few degrees of Saturn in the early morning sky.

(Continued on page 12)

The Sky This Summer 2025 (continued)

The Moon in July is Full on the 10th, and back to New on the 24th. The week of the 20-26th is best for your dark, moonless sky this month. Some Lunar events in July:

- *July 16th* the Moon joins Saturn within 2 degrees in the early morning sky
- *July 20th* the Moon passes directly in front of the Pleaides shortly before sunrise around 5AM
- *July 23rd* the Moon joins Jupiter close to the horizon an hour before sunrise

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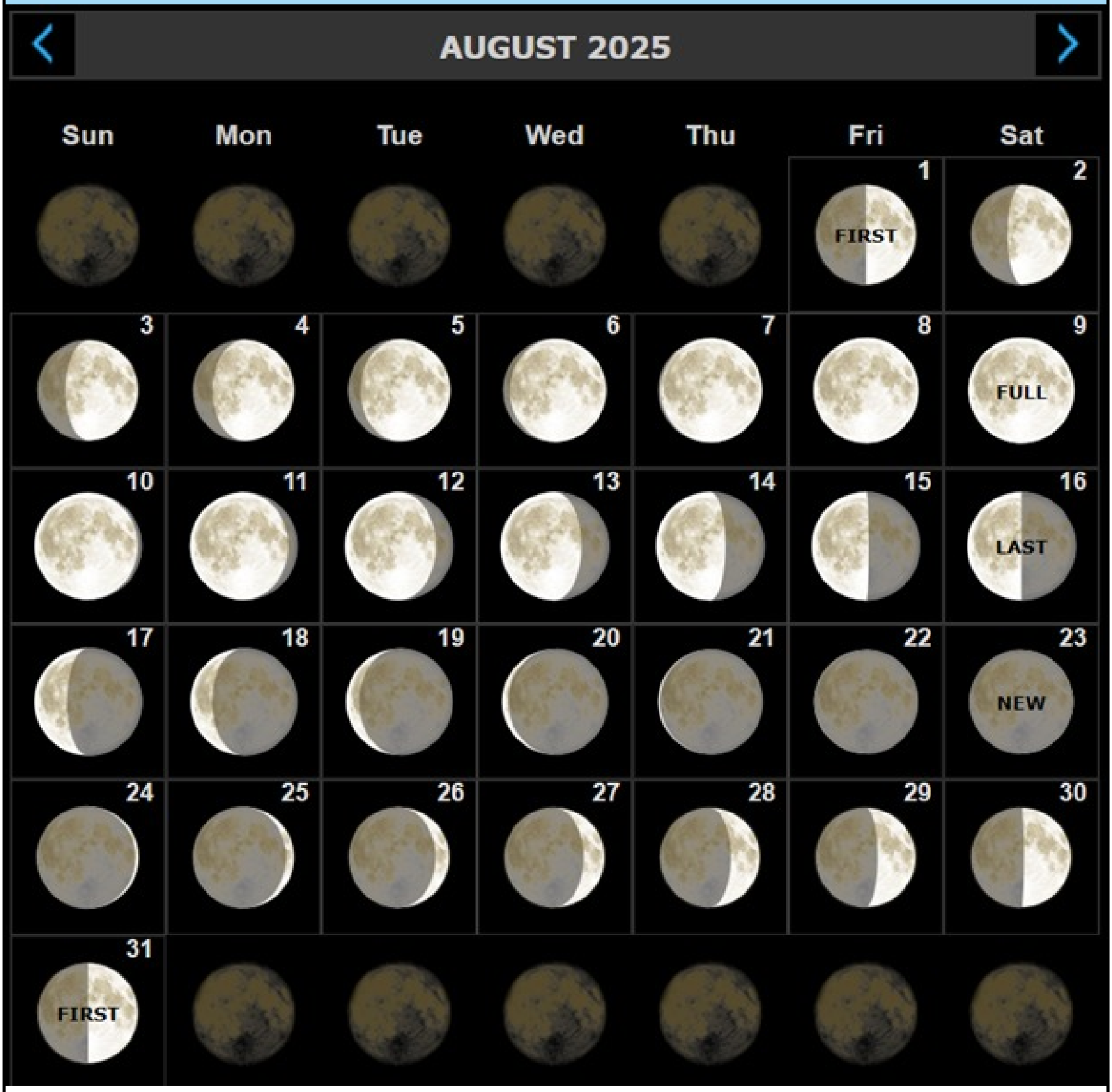
The Sky This Summer 2025 (continued)



The Moon in August is Full on the 9th, and New on the 23rd. This month your best week for a moonless sky is the 18th-25th. Some Lunar events in August:

- *August 3rd* the Moon passes within 2 degrees of Antares in the evening sky low on the southern horizon
- *August 12th* the Moon joins within 4 degrees of Saturn in the early morning sky
- *August 19th* the Moon forms a crooked line in conjunction with Jupiter and Venus in the early morning sky and the next morning passes right in between Venus and Pollux in Gemini

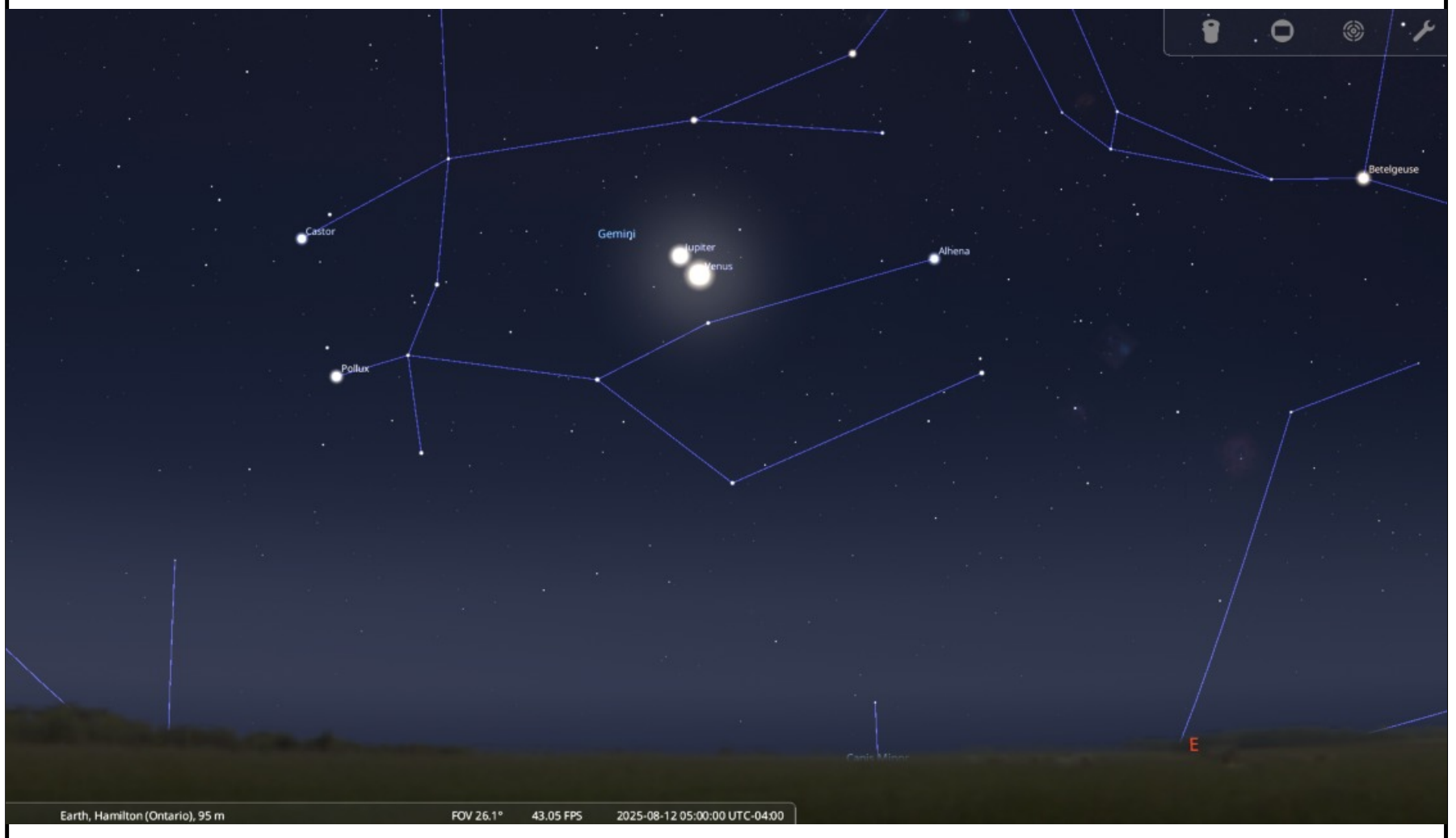
(Continued on page 14)

The Sky This Summer 2025 (continued)

The Planets

Mercury
For all of June, Mercury is too near the Sun for any good observation – it starts moving away at the end of the month and may be fleetingly visible for a couple days as it reaches greatest elongation on July 4th, before turning back towards the Sun and disappearing again in July. It wont be visible again until about August 15th when it becomes an early morning object – but only for an hour or so before sunrise and very low on the eastern horizon.

Venus
Venus spends the entire summer as an early morning object lingering on the eastern horizon for a couple hours before sunrise. You have an entire summer to see it without interruption. Of particular note is a very close conjunction with Jupiter on the morning of August 12th when the two planets pass within a degree of each other in Gemini just before sunrise. Mark this down in your calendar, it'll be a treat for naked eye, binocular, telescope viewing and photography alike.



Jupiter and Venus at 5AM on August 12th.

Image generated using Stellarium

Mars
Mars lingers on the western horizon in Leo for the month of June, sinking lower and lower and setting around midnight. Keep an eye out on the night of the 17th as it moves within a degree of Regulus, and then on the night of June 29th as it passes within half a degree of the Moon – a great treat in a wide field scope (see image at the top of page 15). Mars sinks lower and lower before disappearing into the twilight in the second week of August.

(Continued on page 15)

The Sky This Summer 2025 (continued)

The Moon and Mars on June 29th at 10PM.

Image generated using Stellarium

Jupiter
The King of Planets passes behind the Sun in June, before appearing in the morning twilight in the second week of July. It slowly rises higher and higher in the morning sky earlier and earlier in the month of August, before reaching a favorable position for morning telescopic observing by the start of September.

Saturn
This summer will be a good one for viewing Saturn – at the beginning of June it appears as a morning object a couple hours before sunrise, before becoming a middle of the night object in July and an evening and all-night target in August. Plenty of opportunity to see its plethora of dancing moons and nearly edge on rings all summer long.

Uranus
Uranus is too near the sun in June for observing, but it begins pulling out of the morning twilight at the start of July, before rising and higher and higher as the summer goes by affording plenty of views of the seventh planet in Taurus in the morning sky in August.

Neptune
Neptune spends the entire summer within a few degrees of Saturn following it across the sky, not wandering more than a couple degrees away all summer long.

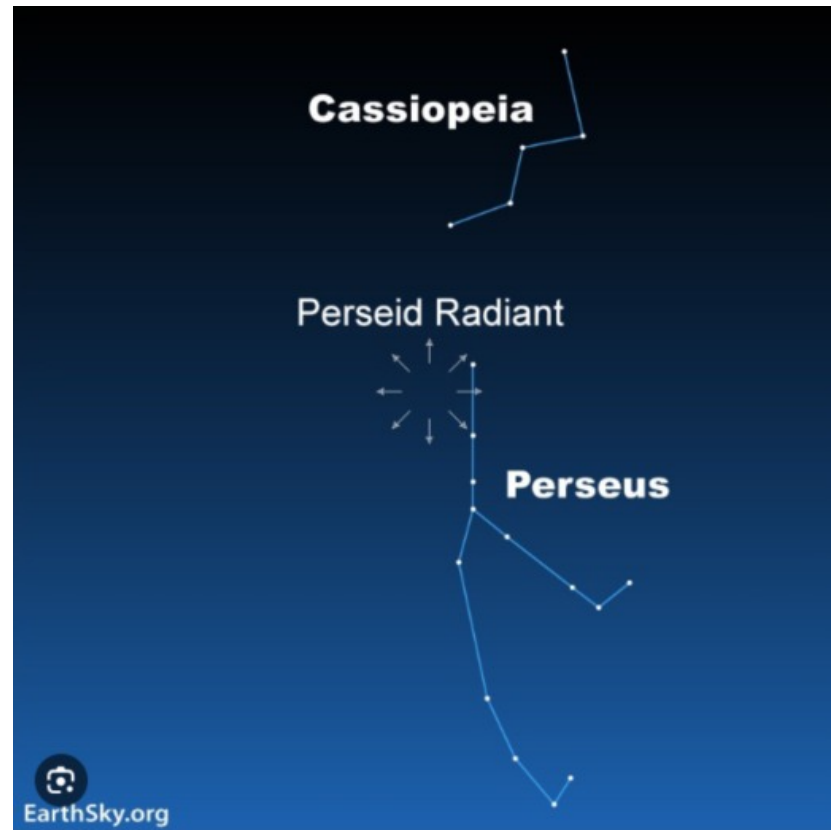
Keep August 12th in your calendar – aside from being the peak of the Perseids, around 4AM you will also be able to see Jupiter, Venus (in close conjunction), Saturn, Uranus, Neptune and the Moon forming a line across the morning sky.

(Continued on page 16)

The Sky This Summer 2025 (continued)

Perseids Meteor Shower

Of course, August is *Perseids* month – the peak this year will be on August 12th (a Tuesday), with upwards of 100 meteors per hour visible in a dark sky – but for a few nights on either side of the peak, you'll still be set to see several dozen meteors an hour. Unfortunately this year, you have a bright gibbous Moon in the sky most of the night – but that shouldn't stop you from grabbing a lawn chair, going out and trying to catch some shooting stars.



The radiant of the Perseids. Credit: EarthSky.org

Deep Sky

The summer months are the best for viewing the multitude of bright deep sky objects in the heart of the summer Milky Way. Each month offers plenty of opportunity to see dozens of Messier and NGC objects from globulars to open clusters to planetary nebulae. I'll trust you to bust out your star atlases and go deep sky hunting this summer, but for our beginners and new members, below is a short list of the best objects to try and find in your scope each month.

In June, focus on Hercules, Ophiuchus, Lyra and Cygnus, and try and spot the following:

- ***M13*** (globular cluster)
- ***M92*** (globular cluster)
- ***M57*** (planetary nebula)
- ***M12*** (globular cluster)
- ***M27*** (planetary nebula)
- ***M39*** (open cluster)
- ***M71*** (globular cluster)

In July, focus on Sagittarius and Scorpius, and bag the following:

- ***M4*** (globular cluster)
- ***M8*** (emission nebula)
- ***M20*** (emission nebula)
- ***M22*** (globular cluster)
- ***M28*** (globular cluster)
- ***M7*** (open cluster)
- ***M6*** (open cluster)
- ***M16*** (open cluster/emission nebula)
- and dozens more – you can spend literally all night in this region of the sky

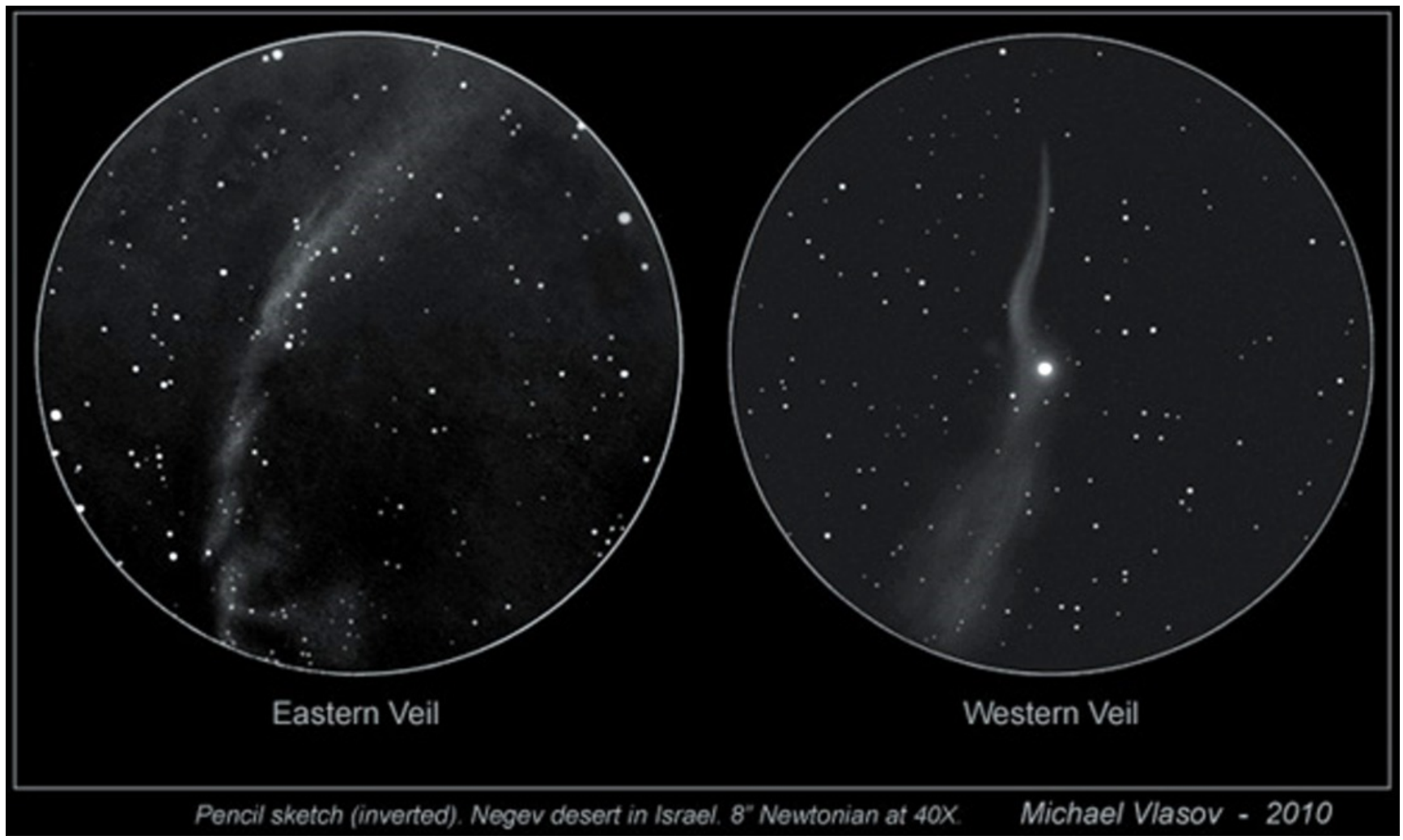
In August, just try taking your scope, and scanning along the Milky Way from Sagittarius all the way in the south, to Perseus in the north – at 1AM at the start of the month, the Summer Milky Way arches directly overhead – if you simply follow it along its entire path, you will be sure to catch dozens of objects and break up thousands of stars. Sometimes it's the most fun to just go into your observing session without a plan, and see what you stumble upon!

(Continued on page 17)

The Sky This Summer 2025 (continued)

Challenge Object for the summer: The Veil Nebula in Cygnus (NGC 6992/6960)

This supernova remnant in Cygnus forms two broad bracket shaped arcs across a wide field of the sky under Cygnus. You'll need a very dark sky and a larger aperture to try and visually observe the wispy, nebulous of the East or West Veil – both will be faint, but with some luck and patience, it'll suddenly pop into your vision without you even realizing!



The Veil Nebula in an 8" scope. Credit: Michael Vlasov/deepskywatch.com

Hope you all have a great summer full of clear skies, dark(ish) nights, and plenty of great views and great stories to tell come the fall. I'll see you in September!

HAA Helps Hamilton

The H.A.A. is accepting and collecting donations from our members and guests for local food banks at our general meetings. The H.A.A. has always valued its relationships with food banks in the community, particularly Hamilton Food Share.

If you can't make an in-person meeting, you can make a donation directly to your local food bank.

Hamilton Food Share
Hunger. It's just unacceptable.

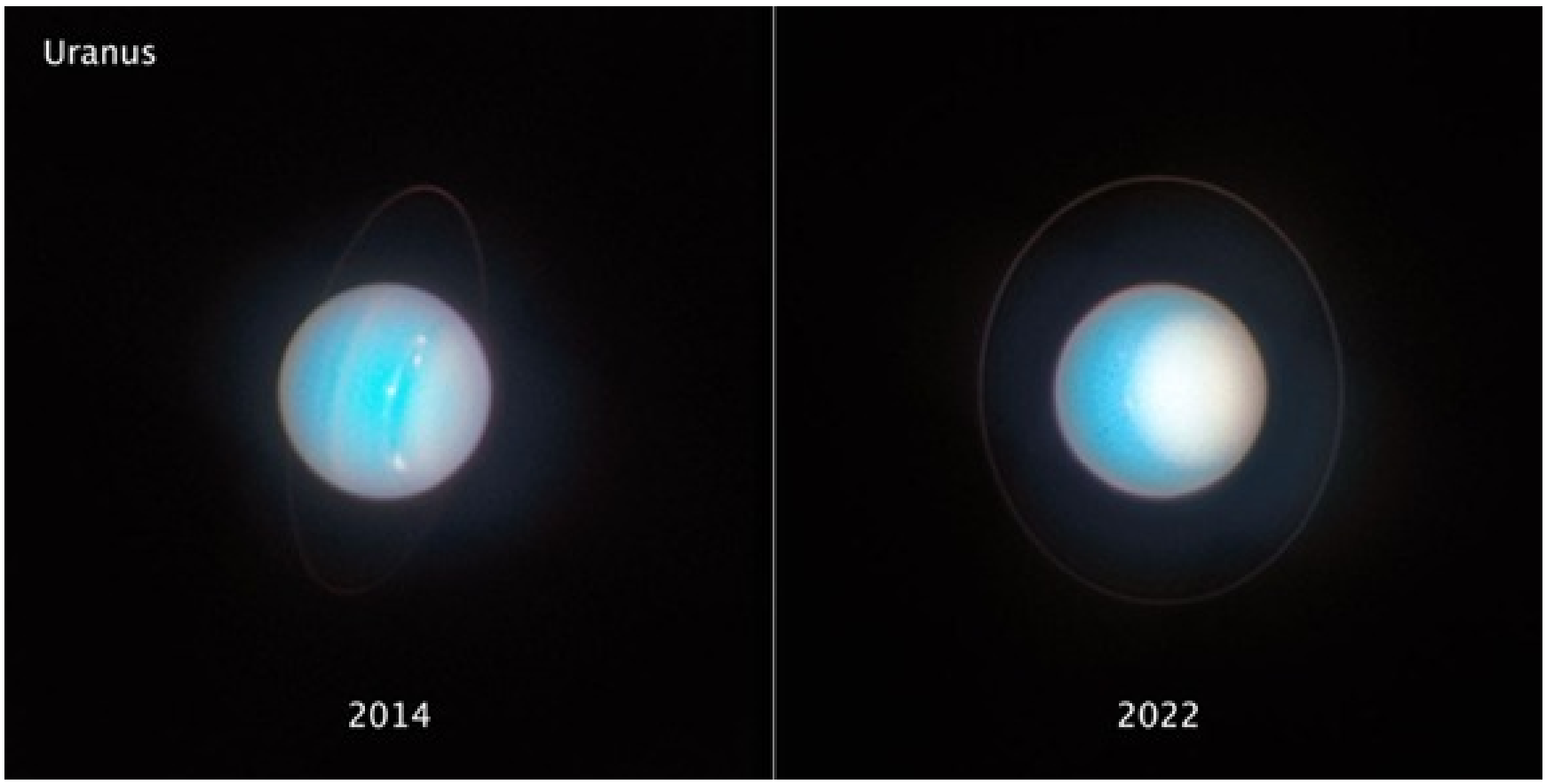
NASA Night Sky Notes

This article is distributed by NASA Night Sky Network (NSN).

Visit nightsky.jpl.nasa.gov to find local clubs, events, and more!

June's Night Sky Notes: Seasons of the Solar System

By: Kat Troche



Uranus rolls on its side with an 84-year orbit and a tilt just 8° off its orbital plane. Its odd tilt may be from a lost moon or giant impacts. Each pole gets 42 years of sunlight or darkness. Voyager 2 saw the south pole lit; now Hubble sees the north pole facing the Sun.
Credit: NASA, ESA, STScI, Amy Simon (NASA-GSFC), Michael Wong (UC Berkeley); Image Processing: Joseph DePasquale (STScI)

Here on Earth, we undergo a changing of seasons every three months. But what about the rest of the Solar System? What does a sunny day on Mars look like? How long would a winter on Neptune be? Let's take a tour of some other planets and ask ourselves what seasons might look like there.

Martian Autumn

Although Mars and Earth have nearly identical axial tilts, a year on Mars lasts 687 Earth days (nearly 2 Earth years) due to its average distance of 142 million miles from the Sun, making it late autumn on the red

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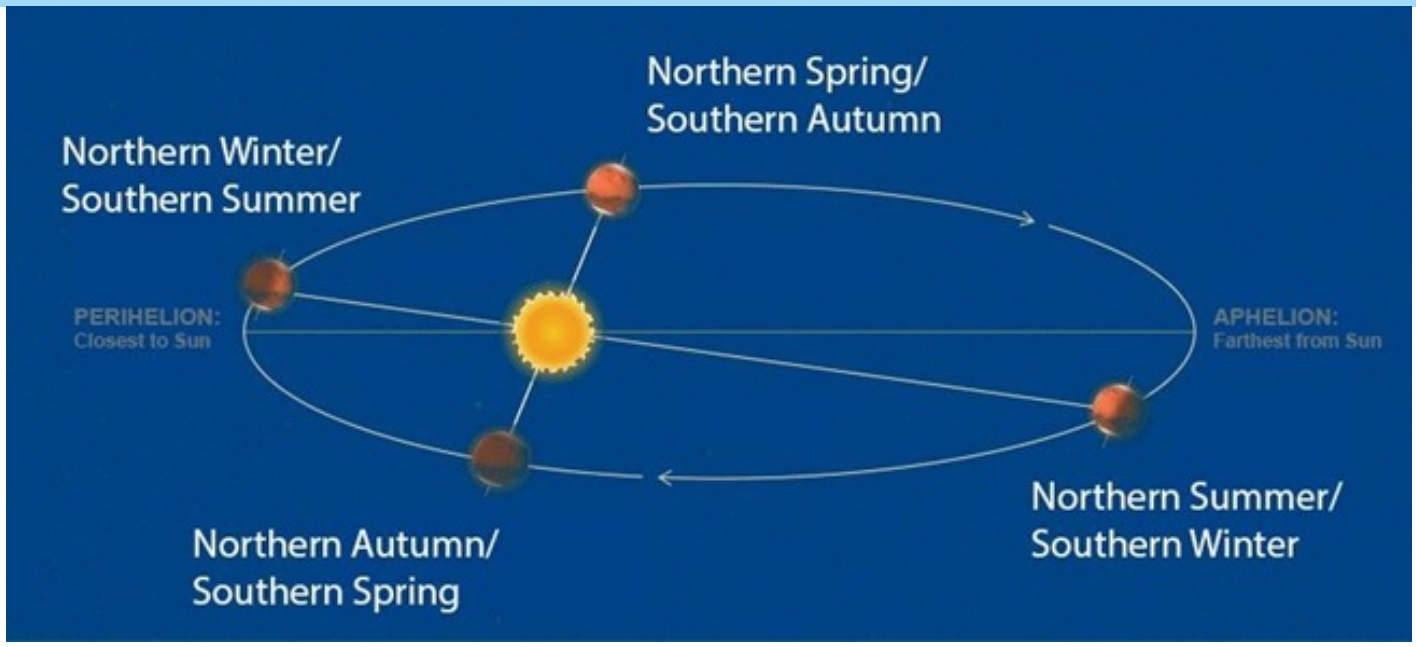


An artist's rendition of Mars' orbit around the Sun, and its seasons. Credit: NASA/JPL-Caltech

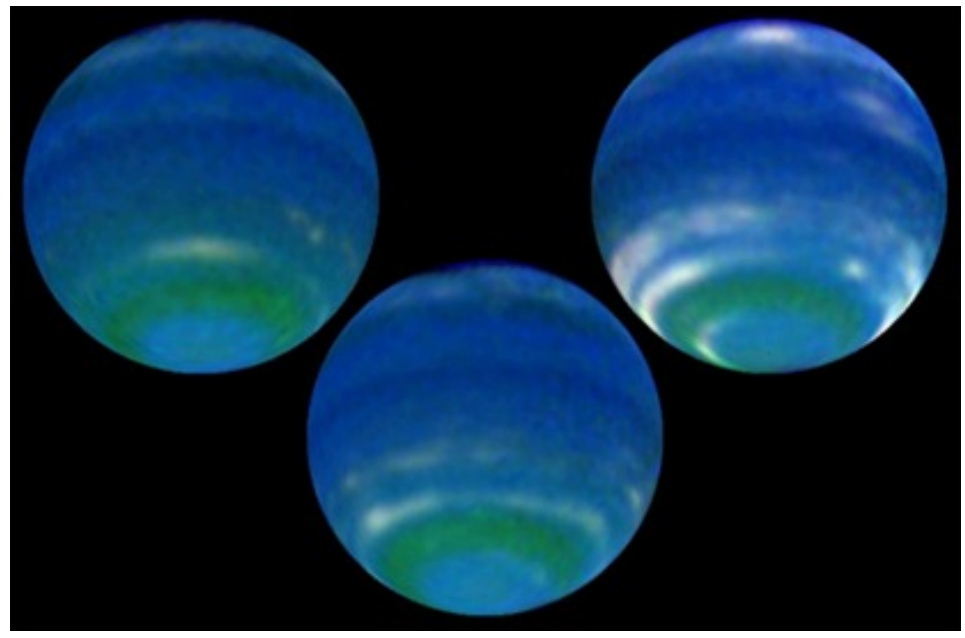
planet. This distance and a thin atmosphere make it less than perfect sweater weather. A recent weather report from Gale Crater boasted a high of -18 degrees Fahrenheit for the week of May 20, 2025.

Seven Years of Summer

Saturn has a 27-degree tilt, very similar to the 25-degree tilt of Mars and the 23-degree tilt of Earth. But that is where the similarities end. With a 29-year orbit, a single season on the ringed planet lasts seven years. While we can't experience a Saturnian season, we can observe a ring plane crossing here on Earth instead. The most recent plane crossing took place in March 2025, allowing us to see Saturn's rings 'disappear' from view.

A Lifetime of Spring

Even further away from the Sun, each season on Neptune lasts over 40 years. Although changes are slower and less dramatic than on Earth, scientists have observed seasonal activity in Neptune's atmosphere. These images were taken between 1996 and 2002 with the Hubble Space Telescope, with brightness in the southern hemisphere indicating seasonal change.



NASA Hubble Space Telescope observations in August 2002 show that Neptune's brightness has increased significantly since 1996. The rise is due to an increase in the amount of clouds observed in the planet's southern hemisphere.
Credit: NASA, L. Sromovsky, and P. Fry (University of Wisconsin-Madison)

As we welcome summer here on Earth, you can build a Suntrack model that helps demonstrate the path the Sun takes through the sky during the seasons. You can find even more fun activities and resources like this model on NASA's Wavelength and Energy activity.

Eye Candy the Members' Image Gallery

The Big Dipper and Arcturus, by **Chris White**

The Needle Galaxy (NGC 4565) in Coma Berenices, by **Bob Christmas**
Taken with a ZWO Seestar S50 imager from Barry's Bay, ON. 184 x 10s = 30 minutes, 40 seconds total.

William J. McCallion Planetarium

McMASTER UNIVERSITY, HAMILTON, ONTARIO

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- **Upcoming shows:**

  - **Jun 4, Jul 19: Introductory Astronomy for Kids — Solar System**
  - **Jun 11: Asteroids, Comets, and the Edge of the Solar System**
  - **Jun 18: Onekwá:tara – the Seven Dancers of the Pleiades**
  - **Jun 21, Aug 6: Introductory Astronomy for Kids — Constellations**
  - **Jun 25: Myth-Busting Astronomy in Pop Culture**
  - **Jul 2, Aug 16: Introductory Astronomy for Kids — Galaxies**
  - **Jul 9: Any ETs Phoning Home? The Search for Alien Life**
  - **Jul 16: Written in the Stars: Love Stories in the Sky**
  - **Jul 23: Ancient Astronomy: Earth's First Scientists**
  - **Jul 30: The Celestial Bear: The Six Nations' Night Sky**
  - **Aug 13: Cosmic Dance of the Earth, Sun, and Moon**
  - **Aug 20: A History of Collisions in the Solar System**
  - **Aug 27: Lost at Sea**

- **For show times and further details, visit**
  www.physics.mcmaster.ca/planetarium

UPCOMING EVENTS

June 13, 2025 - 7:30 pm — H.A.A. Meeting at St. Matthew's Anglican Church. Our guest speaker will be the H.A.A.'s own *Mario Carr* who will talk about how the cosmos has influenced life on Earth. **There is the option of attending online via Zoom.** Past meetings can be viewed on our YouTube channel.

August 9, 2025 — H.A.A. Perseids Public Night at Binbrook Conservation Area - see details in this month's Chair's Report on page 2.

September 12, 2025 - 7:30 pm — H.A.A. Meeting at St. Matthew's Anglican Church.

2024-2025 Council

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Check out the H.A.A. **Website**
www.amateurastronomy.org

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All active HAA members have the privilege of access to an exclusive HAA members only dark sky location.

Be on the lookout for e-mails with dark sky observing details. Space is limited.

The Harvey Garden HAA Portable Library

Contact Information

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