

THE NIGHT SKY

Preserve our window to the universe by limiting the use of excessive and ineffective night lighting

HUMANKIND HAS LOOKED UP TO THE STARS FOR ALL OF RECORDED HISTORY

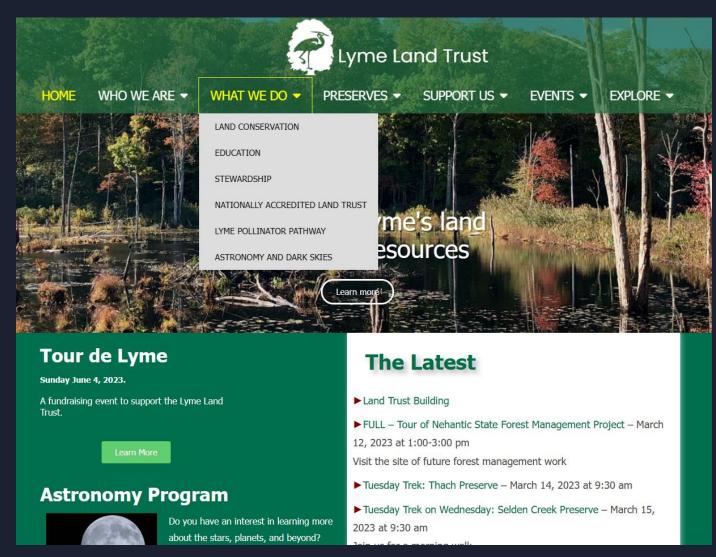




LYME LAND TRUST CONTINUES IN THAT FINE TRADITION

Over 3,000 acres owned or under easement, with 52 trails open to the public.

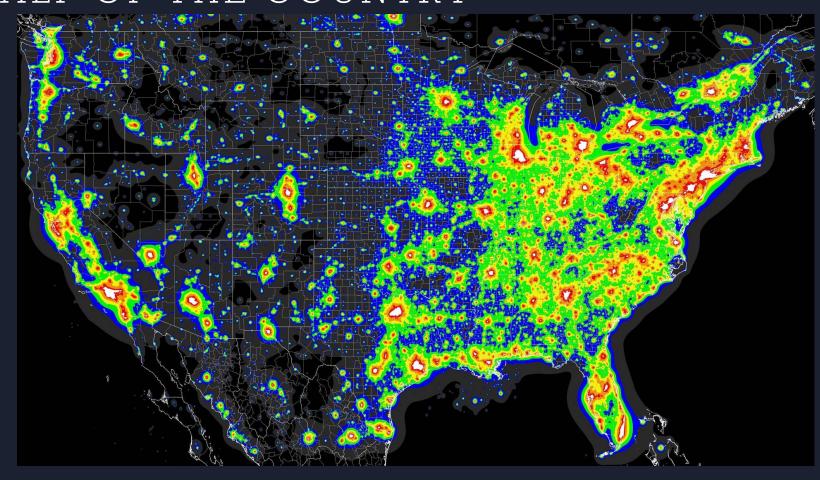
Our dark skies are an integral part of our natural environment--- and so, we have designated the night sky as *Trail 53*.



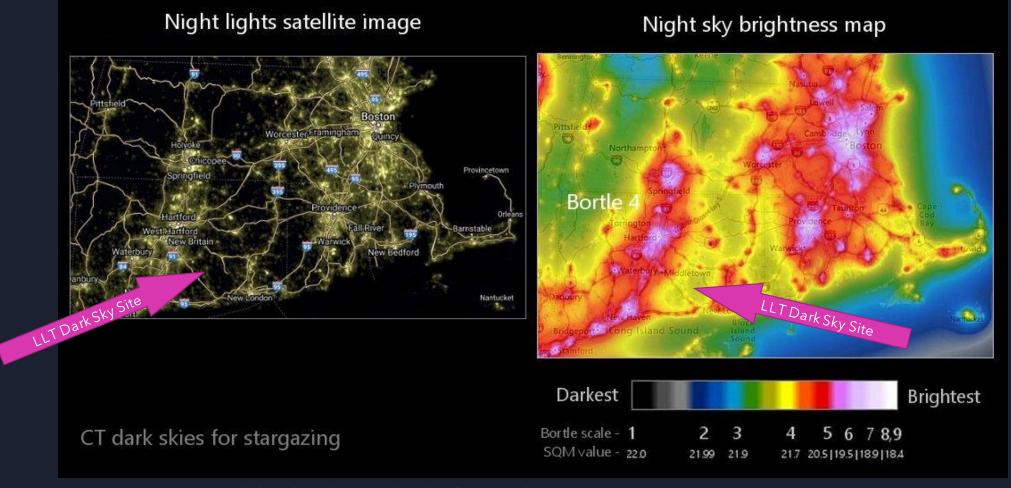
<u>www.lymelandtrust.org</u> <u>Our Dark Skies - Lyme Land Conservation Trust</u>



BUT... LIGHT POLLUTION IS THE NORM IN THE ENTIRE EASTERN HALF OF THE COUNTRY



OUR LOCAL SITUATION



Connecticut Dark Sky Parks & Places | Bortle Light Pollution Map | GO ASTRONOMY (go-astronomy.com)

We live in a unique 'hole' in the overwhelming glow of night lighting.



WE ALSO HAVE SOME BRIGHT SKYGLOW Lyme Land Trust Photo by Roger Charbonneau, Jr Dark Sky Site

RAISING AWARENESS

Young Lyme and Old Lyme Scouts get hands-on time with telescopes.



RAISING AWARENESS

Lyme Consolidated students learn about telescopes and the night sky.

Using a model sun, moon and earth, they experience a simulated solar eclipse in the classroom.



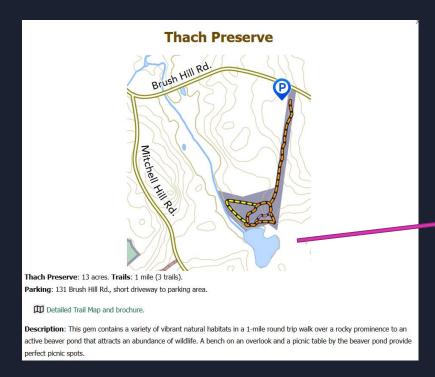
BRINGING IT HOME

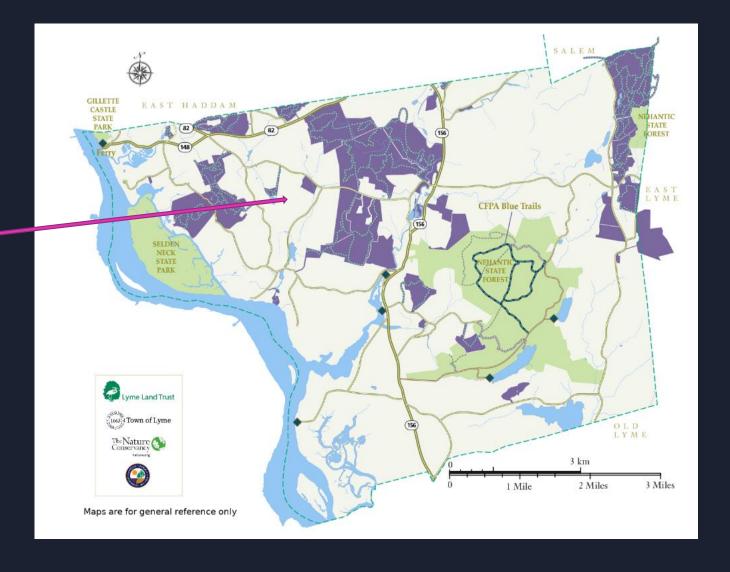
A permanent observatory installation in Lyme, CT.

Monthly public viewing sessions showcase our dark sky, and also highlight the pockets of encroaching light pollution.



THE LYME LAND TRUST **DARK SKY SITE** IS ON PRIVATE PROPERTY JUST EAST OF THE THACH PRESERVE





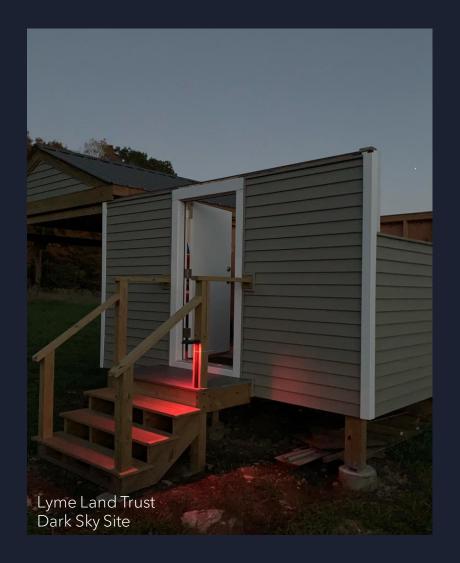
TRAIL 53 OBSERVATORY

LOCATED AT THE DARK SKY SITE

Sessions are open to the public via registration at *lymelandtrust.org*

The public is welcomed to the site along a path of red lights that preserves their night vision.

Teaching about night vision increases awareness of how much we miss because of exposure to excessively bright lights.



THE BEAST

The principal telescope affords wondrous views of the moon, planets, galaxies, star clusters and nebulae.
Additional telescopes are set up all around the observatory.

Attendees experience the night sky with professional-grade equipment in a comfortable setting. All come away inspired.



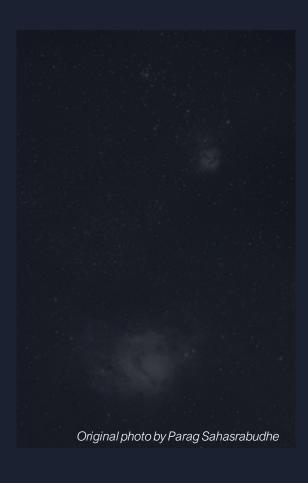
CAPTURING THE WONDERS IN THE NIGHT SKY

Our dark skies permit astrophotographers to image faint but beautiful natural objects hanging out in and beyond our home Milky Way.



MANY OBJECTS CAN BE SEEN IN THE TELESCOPE





SAME OBJECTS CAPTURED AS ASTROPHOTOS





LONG EXPOSURE TIMES IN LIGHT-POLLUTED SKIES WILL WASH OUT.





THE JOY OF FINDING

THE JOY OF RECORDING



TELL-TALE MARKER OF LIGHT POLLUTION

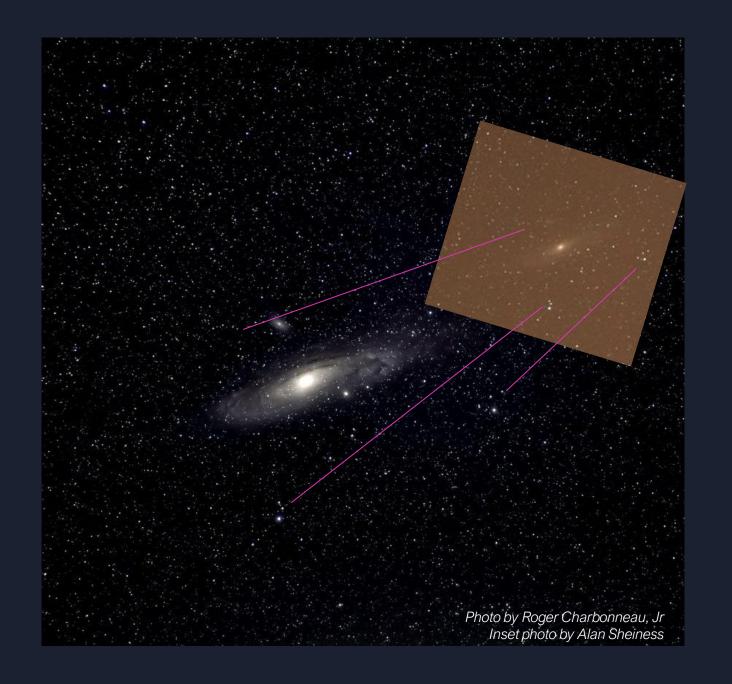
The Andromeda Galaxy is the closest and brightest galaxy in the northern hemisphere sky.



AND WHERE IS IT?

The bright image of Andromeda was taken recently here in Lyme, CT.

The inset image of the same galaxy was taken years ago in light-polluted skies in suburban New Jersey. (Could be even worse now!)



SO... WHAT IS THAT SKYGLOW AND CAN IT BE REVERSED? Lyme Land Trust Photo by Roger Charbonneau, Jr Dark Sky Site

THE NIGHT SKY IS OUR PRECIOUS PORTAL TO THE REST OF THE NATURAL WORLD

Preserve this sacred window to the universe

Limit the use of excessive and ineffective night lighting at home and in your home-town!



LEARN MORE

www.lymelandtrust.org

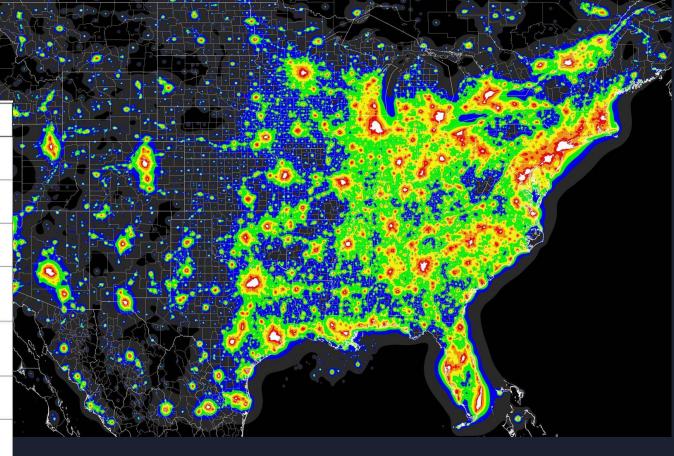
https://www.lymelandtrust.org/our-dark-skies/

LLT ASTRONOMY JOURNAL | @sheinessam | Flipboard

<u>Total Eclipse of the Sun August 2017</u>

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Bortle Scale Number	Color on Map	Limiting Magnitude	Sky Type	Description
1		8	Excellent Dark Site	Airglow is very weak and near horizon Zodiacal Light is across the night sky Miky Way casts shadows
2		7.5	Dark Site	Airglow is weakly visible Zodiacal Light casts shadows Milky way is very detailed
3		7	Rural	Clouds are faintly lit at horizon Zodiacal light visible well above horizon Milky Way appears complex
4		6.5	Rural/ Suburban	Clouds are lit only at horizon Zodiacal Light is visible halfway above horizon Milky Way structure starts to show
5		6	Suburban	Clouds and ground are faintly lit Some Zodiacal Light Milky Way is slightly more visible overhead
6		5.5	Bright Suburban	The sky glows gray at horizon Constellations are visible Milky Way visible overhead
7		5	Suburban/ Urban	The sky has a gray/yellow glow Bight constellations are visible No Milky Way
8		4.5	City	The sky has an orangeish glow Brightest constellations are visible No Milky Way
9		4 at best	Inner-City	The sky has a bright glow Only bright stars are visible No Milky Way



The Milky Way is one of the give-aways for how much of the sky is being blocked by night lighting.