



# GREENWICH FREE LIBRARY

SOLAR ECLIPSE APRIL 8, 2024

In Greenwich,  
the partial  
eclipse will begin  
around 2:12 PM  
and reach  
maximum at  
3:27 PM

Greenwich will  
experience a 97-98%  
**partial eclipse.**  
The Path of Totality  
is to the Northwest  
& North

**Greenwich Free  
Library will be  
closed on  
Monday, April 8th.**  
Please be safe when  
viewing the Eclipse,  
and plan ahead to  
avoid traffic and  
crowds.

**Be safe!**  
When looking at  
the eclipse, wear  
Safe Solar  
Viewers that  
conform to ISO  
12312-2  
requirements

**When the eclipse is over, return any  
gently used glasses to the library for  
donation to Astronomers without  
Borders to be redistributed**



**Astronomers  
Without Borders**

ONE PEOPLE + ONE SKY

# Safety First!

The only way to safely view a partial solar eclipse is through through special-purpose solar filters that comply with the transmittance requirements of the ISO 12312-2 international standard. Make sure eclipse glasses/solar filters are undamaged. Filters go on the OUTSIDE of telescopes/binoculars, and are recommend to be worn on top of regular eyeglasses.

If you travel to the Path of Totality, you may remove your glasses while viewing the eclipse **during totality** only.

When not looking directly at the sun, you do not need to keep the glasses on. You can experience the changes in light, temperature, and environment without looking at the sun.

Children should be accompanied by an adult at all times during the eclipse. Pets should be left at home.

## Resources



What the eclipse will look like for you, precise timing and duration: [timeanddate.com](https://timeanddate.com)

National Weather Service Cloud Probability:  
[weather.gov/buf/totalclipse](https://weather.gov/buf/totalclipse)



The Great North American Eclipse:  
<https://www.greatamericaneclipse.com/>

National Informal STEM Education Network:  
[nisenet.org/solareclipse](https://nisenet.org/solareclipse)



View a livestream of the total eclipse:  
[exploratorium.edu/eclipse](https://exploratorium.edu/eclipse)



# Where to view the Partial Eclipse near Greenwich

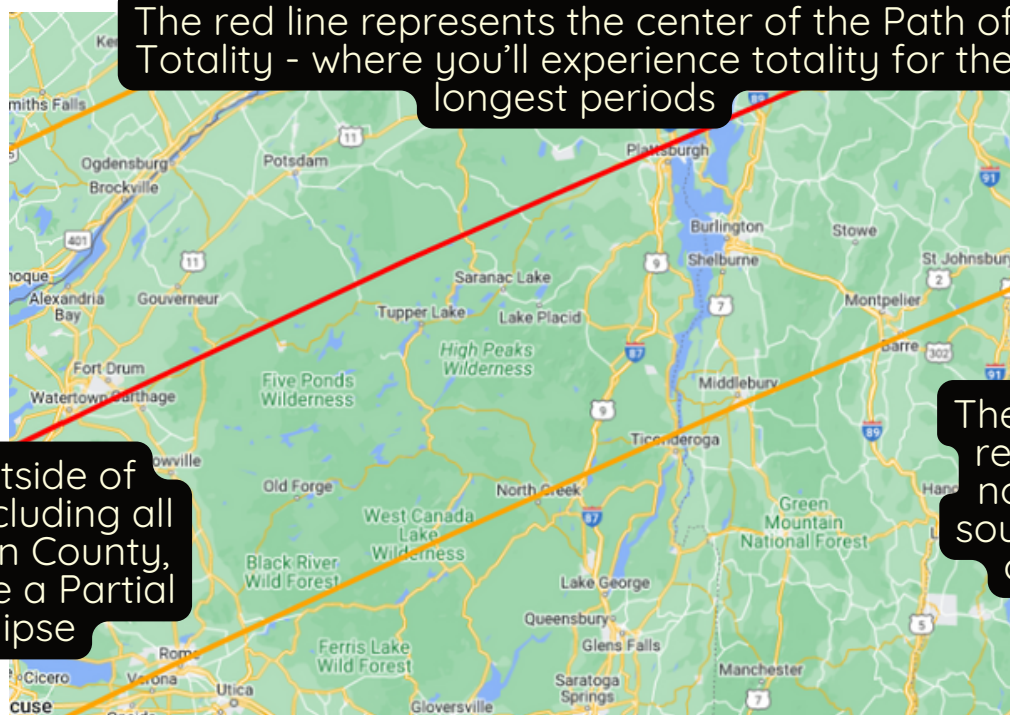
Weather permitting, you'll be able to view the partial eclipse anywhere outside. If you want to join with fellow enthusiasts, consider:

**Hudson Crossing Park Pavilion**, just north of Schuylerville, on New York State's Historic Scenic Byway, Route 4.

2:00 - 5:00, Enjoy crafts for all ages, an expert educator, and safe viewing glasses (while supplies last).

**Saratoga National Historical Park**, 648 Route 32 Stillwater  
2:00 - 4:30, Ranger and Junior Ranger activities, safe viewing glasses (while supplies last)

## Traveling to Totality?



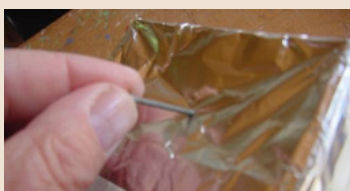
Many areas within the Adirondacks and Green Mountains, along with cities like Plattsburgh and Burlington are within the Path of Totality. Travel on April 8th is likely to be busier than usual. Make advanced plans; make back-up plans, and leave early! Don't forget to pack snacks.

To find events and great viewing spots visit:  
Adirondacks: [2024-eclipse.com](https://2024-eclipse.com)  
Vermont: [vermontvacation.com](https://vermontvacation.com)

# Build Your Own Pinhole Projector using a cereal box



1. If the bottom of the box isn't white, glue a white piece of paper to the bottom. This makes it easier to see the projected image.
2. Cut the ends off the box tabs as shown. This creates two openings, one for the foil the other for viewing



3. Tape aluminum foil over one of the openings.
4. With a small (~ 3mm diameter) nail, push a hole through the foil. The size of the hole isn't critical, you can experiment with different sizes.
5. Hold the finished pin-hole viewer with the sun shining on the pin-hole. The sun will be behind you.

**Never look directly at the sun!**



6. While looking in the opening, move the box until an image of the sun appears on the bottom. You are now safely viewing an image of the sun. This is a safe way to view an eclipse.



7. An eclipse would look like this through your pin-hole viewer.



The instructions & photos above come from the [STEM Activity Clearinghouse](#) website, and similar instructions and ideas can be found in a variety of places online.