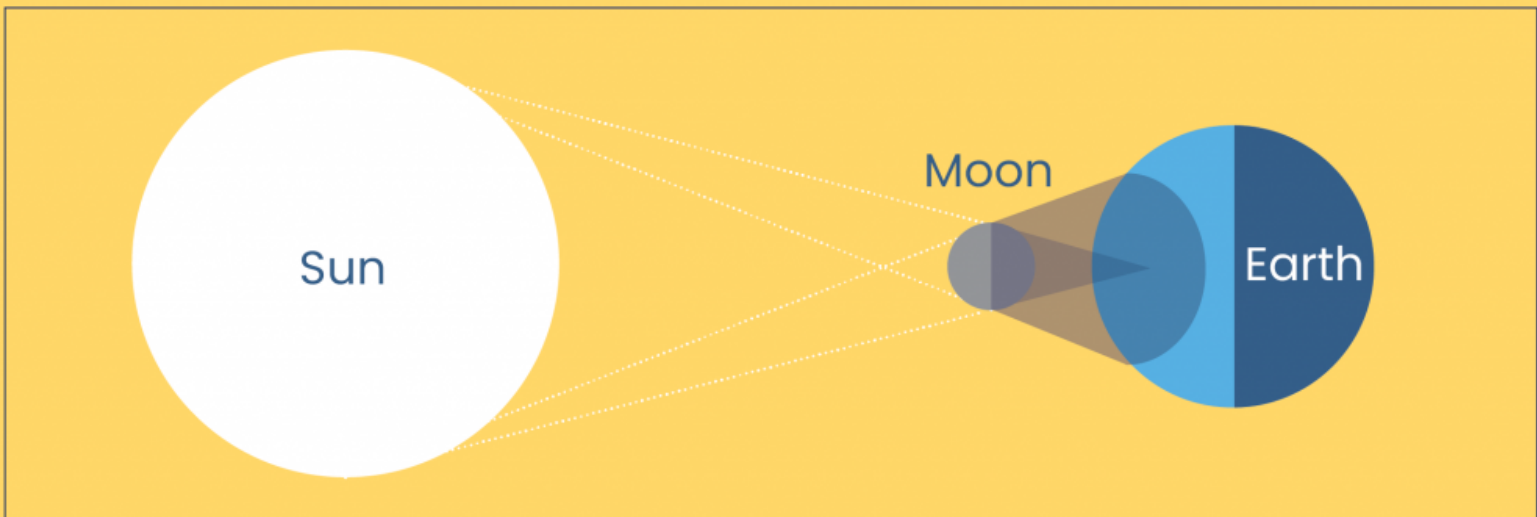


# ANNULAR ECLIPSE

JUNE 10, 2021



SkyNews



## WHAT IS A SOLAR ECLIPSE?

A solar eclipse occurs when the Moon crosses between the Sun and the Earth. It blocks the Sun's light briefly, casting a shadow on the Earth. Because the Moon's plane of orbit isn't exactly the same as Earth's, eclipses can only occur a few times a year and only during a new Moon!

## TYPES OF SOLAR ECLIPSES

### TOTAL

A total eclipse is when the Moon completely blocks out the light coming from the Sun. You can see a halo, the Sun's corona, around the Moon during a total eclipse.

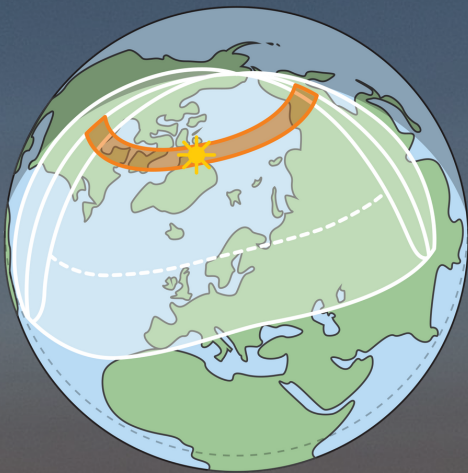
### PARTIAL

During a partial eclipse, the Moon blocks out some of the Sun. You'll see this when the Moon isn't right in front of the Sun or when you aren't directly under the eclipse.

### ANNULAR

An annular eclipse is when the Moon passes in front of the Sun but a thin ring of the Sun is still visible behind the Moon. This type of eclipse is happening in June!

An eclipse will be TOTAL or ANNULAR depending on the apparent size of the Moon (how big it looks in the sky).



Fun fact: This eclipse will maximally eclipse over the North Pole, being the only eclipse to do so in the 21st century!

## HOW DO I SEE IT?

### LOCATION

The annular eclipse is only visible in parts of Northern Ontario/Northern Quebec/Iqaluit (orange) but a partial eclipse is visible throughout the much of Canada (white).

### TIME

The time of this early-morning eclipse depends on where you live! Check The Royal Astronomical Society of Canada's 2021 Observer's Handbook for details.

## NEVER LOOK AT AN ECLIPSE DIRECTLY!

This is the #1 most important rule that must not be broken. Viewing an eclipse without eye protection can seriously damage your eyes! Instead, view the eclipse using:

- Eclipse glasses
- Solar viewers
- Pinhole cameras
- Online!





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### SO HOW DO I SEE THE ECLIPSE?

#### ECLIPSE GLASSES

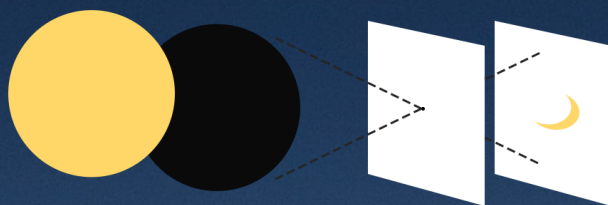
Eclipse glasses and solar viewers have special light filters that protect the eyes from the Sun's light. When using these glasses, always:

- Make sure there are no tears, scratches, punctures or damage you can see on the glasses.
- Be sure that the glasses fully cover your field of vision.
- Put on the glasses when looking away from the Sun and then view the eclipse. Look away from the eclipse first before taking them off.
- Never remove the glasses when viewing the Sun!



#### PINHOLE CAMERA

Pinhole cameras or viewers are a cheap and effective way to view the eclipse! Just use two sheets of sturdy paper/cardboard and poke a small, smooth, and round hole through one sheet. Hold it above your head and let the Sun's light project through the hole onto the other sheet. You should now be able to see an inverted image of the eclipse!



#### COLANDER

They're not just for spaghetti! You can also use a colander to view the solar eclipse. It acts the same way as a pinhole viewer, except each of the holes in the colander will project an image of the eclipse. Don't look at the Sun through the holes — look at the light on another surface, like a wall.

### WANT MORE?

RASC INSIDER'S GUIDE TO THE GALAXY: Safely Viewing the Sun  
Tuesday, May 25, 2021 • 3:30 to 5 p.m EDT

Have you ever seen the Sun? Of course you have. But have you ever been able to safely look directly at the Sun? We'll go over how to get into safe solar viewing, including how to use filters to safely see it with a telescope or binoculars, how to make a pinhole projector, and what features to look for. Then you'll be ready to view the partial solar eclipse that will be visible in much of Canada on June 10!

Find out more at [SkyNews.ca](https://www.skynews.ca)! Video will also be livestreamed to RASC's YouTube Channel.



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The Royal Astronomical Society of Canada has more than 5,000 members at 30 centres. Each centre runs programs, star parties and outreach events, sharing our night-sky passion with the public. Visit [rasc.ca](https://www.rasc.ca) for more!

SkyNews is Canada's leading source of astronomy and space news. With its updated website, weekly newsletter and magazine published every two months, SkyNews is your guide to observing the night sky. Visit [SkyNews.ca](https://www.skynews.ca) for details.

Background by Brian Chorski