PREPARE for the ECLIPSES!

With host, Phil Plait
"The Bad Astronomer"

September 19th 4pm PT/7pm ET





Welcome!

Meet the behind-the-scenes team from SciStarter



Emma Giles



Roland Moundalak



Trevor Bartone

Poll



How do you plan to experience the upcoming eclipses?

View the annular eclipse path on October 14th, 2023

View the total eclipse path on April 8th, 2024

Watch one or both from home (online or TV, etc)

None of the above

Poll



A space fan

A student

A parent

A teacher, educator, troop leader, etc.

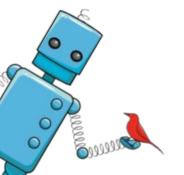
A librarian

A scientist

A curious or bored person on the internet

Join the SciStarter Community

- Find recommended projects that match your location and interests
- Easily send messages or questions to project scientists
- Bookmark and join many projects with "one-click"
- Track your contributions to projects
- Help scientists find you when and where they need you the most!



SciStarter.org/login

Chat

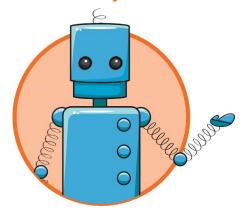
- Use the "Chat" option to share messages with Everyone, Panelists/Hosts, or specific people.
- Direct message IT Support if you need technical help

Q&A

- Use the "Q&A" option to post questions you'd like the presenters to answer related to:
 - The Heliophysics Big Year
 - Eclipses
 - NASA Citizen Science Projects
 - SciStarter

Welcome!

Please introduce yourself in the chat (name & location).



Zoom features are located at the bottom of your Zoom window.

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Welcome to Do NASA Science LIVE!



Eclipses: What, when, where...and why they matter to science and humankind



The Heliophysics Big Year



Preparing for and participating in eclipse research



Introduction to FIVE NASA research projects that need your help



Q&A and additional resources





Did you experience the eclipse in 2017?

Where were you?
What was it like?
Who were you with?

Tell us in chat!



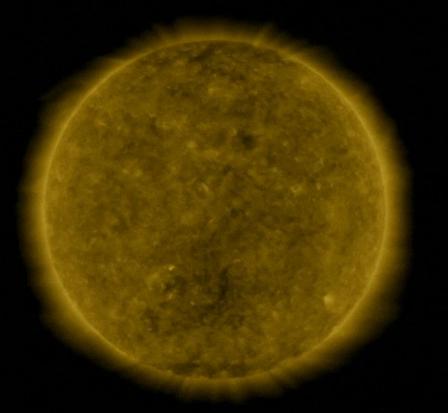


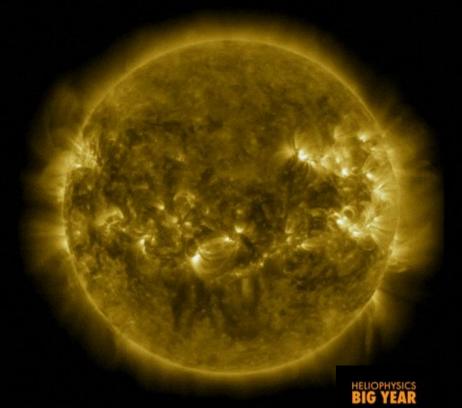




SOLAR **MINIMUM**

SOLAR MAXIMUM





UPCOMING SOLAR ECLIPSES

Annular Solar Eclipse

Total Solar Eclipse

Oct. 14, 2023



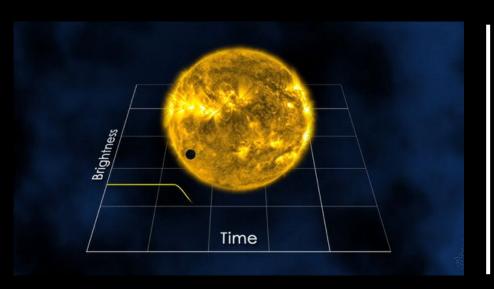


https://solarsystem.nasa.gov/eclipses/



INTERDISCIPLINARY SOLAR ECLIPSE SCIENCE

Exoplanet Transit



Solar eclipse viewed on Mars by NASA's Perseverance Rover





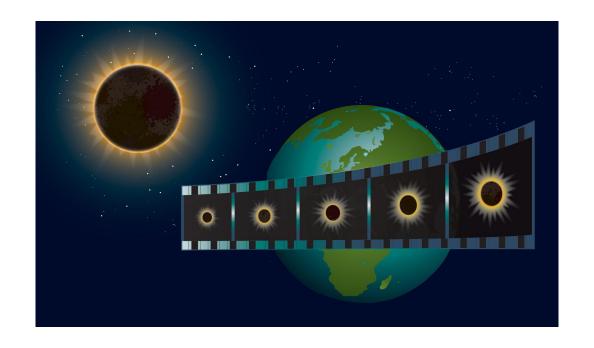
More than TWO MILLION volunteers in 167+ countries join NASA research projects and collaborate with scientists to help make discoveries!

science.nasa.gov/citizenscience



Gordon Emslie





Laura Peticolas

JOIN US! Sign up at our website.

E(LIPSE MEGAMOVIE



eclipsemegamovie.org

Volunteer to help the Eclipse Megamovie 2024 (EM2024) study changes in the Sun's atmosphere, the corona.

- 1. Eclipse Photography
- 2. Machine Learning (AI) and Python coding
- 3. Donate to support other's involvement

Our project is giving away one hundred 3-D printed equatorial mounts to volunteer photographers.



Eclipse Megamovie 2017
Solar Corona HDR Photograph.
Photo Credit: Volunteer astrorx





MaryKay Severino



ARISA



Partner

Eclipse Soundscapes is supported by NASA award No. 80NSSC21M0008

How does life on Earth, specifically wildlife, respond to solar eclipses?

Collect observations and sound data from the October 14, 2023 annular eclipse and the April 8, 2024 total solar eclipse to help us start to figure it out!



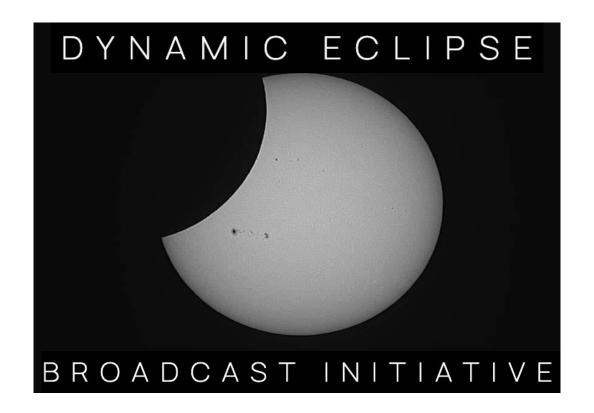


- **Eclipse Day Activity**
- Free, No Equipment
- On or Off Eclipse Path

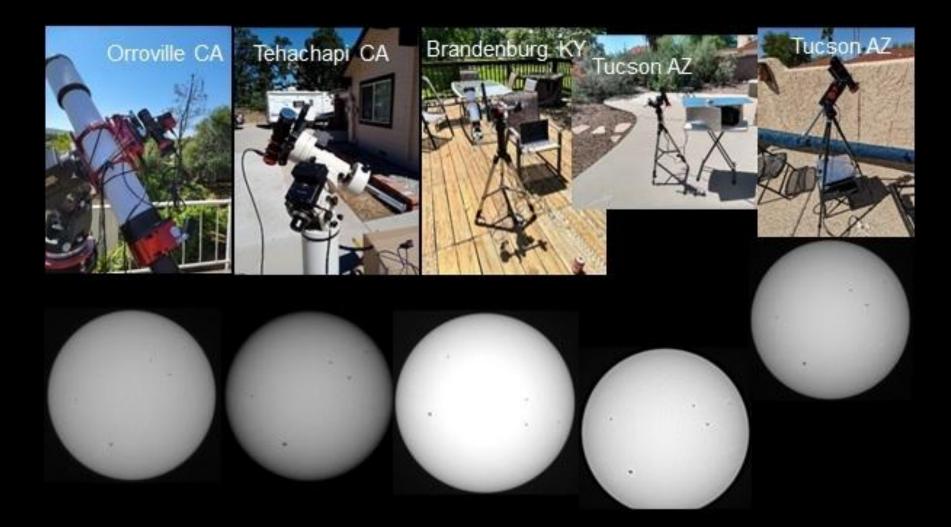




- Eclipse Week Activity
- Equipment Required
- 70%+ Eclipse Path



Cori Brevik





Amir Caspi

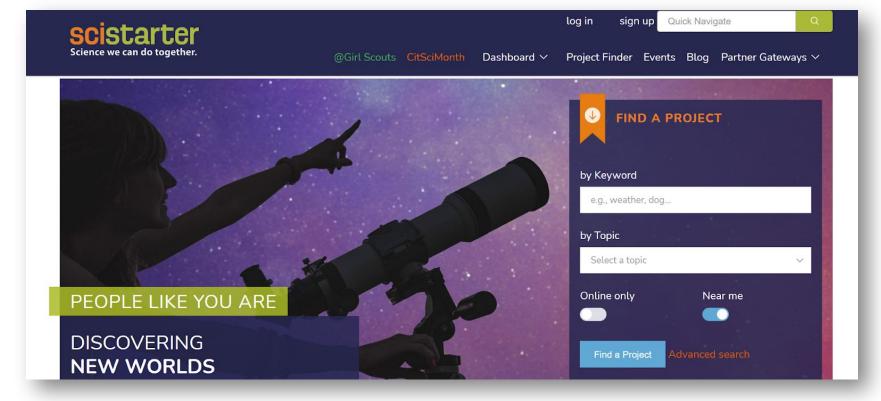


Find these and other NASA projects on SciStarter.org/NASA-LIVE

Questions?







Visit SciStarter.org

SciStarter is a globally acclaimed, online citizen science hub where **thousands of projects** from all over the world have been organized and made searchable!

Foundations of Citizen Science

SciStarter.org/training



Learn the basics while participating in two projects. Earn a personalized badge that shows off your new knowledge!



Ask the Community

At the bottom of every SciStarter project page, you can leave a review or ask a question about the project.



Listen to the Podcast!

SciStarter.org/podcast Available also on Spotify, Google, Apple, Podbean, and Stitcher



Ask the Project Leaders

Send a message to a project's leaders with the "Message Project" button on each SciStarter project page.



Take a Training

At SciStarter.org/training, you'll find free, self-guided modules like our Foundations of Citizen Science course.



Ask SciStarter

Email
Info@SciStarter.org
and we'll do our best
to help you out!



Find Your Next Project!

Ready for more?
Head back to
SciStarter.org/finder and
pick out your next project
to contribute to!

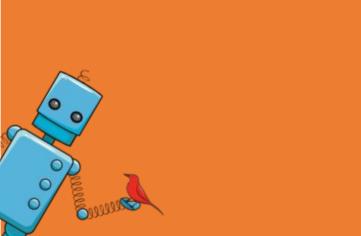
scistarter

Science we can do together.

Resources & More

If you registered for this event, we will email you these links.

In partnership with:







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Science we can do together.

To learn more and to find additional resources about participatory sciences, go to <u>SciStarter.org</u> and <u>CitizenScience.org</u>



NASA Science

NASA Science NOW

Explore Science

Science Data

Get Involved

Explore the

NASA Science NOW

Virtual Exhibit



go.nasa.gov/NASAScienceNow

Special thanks to our speakers!



Marc Kuchner NASA



Gordon Emslie SunSketcher



Laura Peticolas Eclipse Megamovie



MaryKay
Severino
Eclipse
Soundscapes



Amir Caspi Citizen CATE 2024



Cori BrevikDEB Initiative

Special thanks to our host!

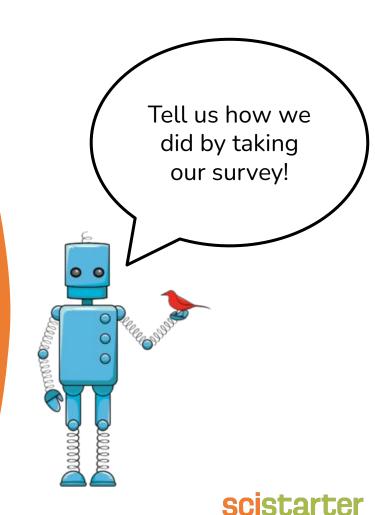




Find the five featured projects and other NASA projects on SciStarter.org/NASA-LIVE

Thanks for watching!

Reach SciStarter at Info@SciStarter.org



Science we can do together.