

Eclipse Soundscapes

How do the sudden darkness and temperature changes of a solar eclipse impact life on Earth? Eclipse Soundscapes invites you to document changes in the environment during the week of the April 8, 2024 total solar eclipse, using your own senses or an audiomoth sound recorder.

Anyone in or near the path of the April 8, 2024 total solar eclipse path is invited to participate. Your observations will reveal how animals and insects respond to dramatic changes in their environment. All project resources - including those for educators - are provided in multiple formats to support accessibility and inclusion.

Include the Eclipse Soundscapes Project at your Eclipse Day event! Check out the **Quick Start Guide** on the project website..

What you'll do:

- Observe and report your multi-sensory observations of a solar eclipse.

Requirements

- **Time:** 1-3 hours, depending on role you choose
- **Equipment:** No equipment required for Apprentice or Observer roles. Data Collector role requires an AudioMoth device, a MicroSD card a plastic bag, zip ties and a return envelope.
- **Knowledge:** None. Tutorials on project website provide all instruction needed for each role.

Get started! Visit the project website for details.

- Learn about eclipses with the Apprentice Training (available in English and Spanish).
- Be an ES Observer on eclipse day using your own senses, then submit your observations to the ES website! (no equipment needed; available in Spanish).
- Interested in scientific tools and audio recording? Be an ES Data Collector.

Visit the project website

<https://eclipsesoundscapes.org/> (or QR code at right) to learn about:

- Companion curriculum,
- The 1935 study that inspired this project,
- Animal and insect behaviour you might observe during the solar eclipse, and
- The Heliophysics Big Year, NASA's yearlong celebration of heliophysics, the science of the Sun and how it influences Earth, space, and the planets in our solar system.



Follow the QR code to the right to learn about more NASA research projects that need your help. **Everyone, regardless of citizenship status, is invited to join these projects!** science.nasa.gov/citizen-science



WHO: All ages

WHERE: Outside during the April 8 solar eclipse

DIVISION: Sun

LAUNCHED: 2023



Caption: Eclipse Soundscapes Data Collectors deploy AudioMoth audio recorders like the one this man is holding, and mail them in after the Eclipse.

Credit: Eclipse Soundscapes



Insects like the grasshopper in the image above change their behavior near sunset - typically, they start to sing. How will they behave during an eclipse? This project wants to know what you hear during the eclipse!

Credit: Ihor Hvozdetzkyi: Royalty-free stock photo ID: 1630876729

The Eclipse Soundscapes Team includes:



Henry "Trae" Winter
Chief Scientist,
ARISA Lab
Co-Founder



MaryKay Severino
Education
Director, ARISA
Lab Co-Founder



Kelsey Perrett
Writer/Com
munications



Joel Goncalves
Developer



Tracey Kline
Educator &
Consultant



William Alexander
Web
Developer



Will Oestreich
Soundscape
Ecologist



Regine Gilbert
Industry Assistant
Professor/ UX/UI
Specialist