



**ONLINE
WORKSHOPS**

Solar Eclipse Event Planning for October 14, 2023 - A Review of the Newest Resources for Engaging the Public

Online Workshop Summary of Resources

September 12, 2023

Online Workshop Presenters

- **Catherine McCarthy**, National Informal STEM Education (NISE) Network
- **Kristen Weaver**, NASA Goddard Space Flight Center, Science Systems & Applications, Inc.
- **Carolyn Ng**, NASA Goddard Space Flight Center, NASA Heliophysics Education Activation Team (HEAT)
- **MaryKay Severino**, ARISA Lab LLC, Eclipse Soundscapes Project
- **Dennis Schatz**, National Science Teaching Association (NSTA), Solar Eclipse Activities for Libraries (SEAL)
- **Robyn Higdon**, Exploratorium, Eclipse Live Streams
- **Vivian White**, Astronomical Society of the Pacific, Night Sky Network, Eclipse Ambassadors

Recording of the Online Workshop on Vimeo

- <https://vimeo.com/nisenet/onlineworkshop-eclipse2023-2024>

Online Workshop Links and Resources

NISE Network Resources

- NISE Network compilation of solar eclipse resources: <https://www.nisenet.org/solareclipse>
- *NEW* - Preparing for a Solar Eclipse presentation slides for 2023 and 2024: <https://www.nisenet.org/solareclipseslides>
- NISE Network hands-on eclipse activities with downloadable guides and training videos:
 - Exploring the Solar System: Big Sun, Small Moon <https://www.nisenet.org/catalog/exploring-solar-system-big-sun-small-moon>
 - Exploring the Solar System: Solar Eclipse <https://www.nisenet.org/catalog/exploring-solar-system-solar-eclipse>
 - Exploring the Solar System: Observe the Sun <https://www.nisenet.org/catalog/exploring-solar-system-observe-sun>
 - Exploring Earth: Bear's Shadow <https://www.nisenet.org/catalog/exploring-earth-bears-shadow>
- DIY Solar System App: <https://nisenet.org/diy-solar-system-app>
- DIY Sun Science App: <https://www.nisenet.org/diy-sun-science-app>

- Compilation of Astronomy & Space Science Hands-on Activities & Resources:
<https://www.nisenet.org/astronomy>

Presenter Resources

Kristen Weaver, NASA Goddard Space Flight Center, Science Systems & Applications, Inc.:
kristen.l.weaver@nasa.gov

- GLOBE Observer Eclipse Website (activities and opportunities):
<https://observer.globe.gov/do-globe-observer/eclipse>
- Globe Observer Eclipse Resource Library:
<https://observer.globe.gov/do-globe-observer/eclipse/resource-library>
- Recursos en español:
<https://observer.globe.gov/do-globe-observer/eclipse/resource-library#espanol>
- GLOBE Visualization System: <https://vis.globe.gov/GLOBE/>
- Globe Observer Publications and Presentations: <https://observer.globe.gov/publications>
- GLOBE Observer Quick Data Viz (video of air temperature data collected by GLOBE participants during the April 21, 2017 Total Solar Eclipse): <https://youtu.be/yiNF1PEV5f8>
- GLOBE Observer Quick Data Viz - 5 Min Intervals with Eclipse Shadow
- NASA Annular Solar Eclipse Safety:
<https://solarsystem.nasa.gov/eclipses/2023/oct-14-annular/safety/>
- Eclipse Toolkit for Informal Educators: <https://observer.globe.gov/toolkit/eclipse-toolkit>
- Contact the GLOBE Observer team: <https://observer.globe.gov/about/contact-us>

Carolyn Ng, NASA Goddard Space Flight Center, NASA Heliophysics Education Activation Team (HEAT): carolyn.y.ng@nasa.gov

- NASA HEAT: <https://solarsystem.nasa.gov/heat/home/>
- Eclipse-focused NASA Science Activation Projects:
<https://science.nasa.gov/learners/science-activation-teams>
- Safe Indirect Viewing - NASA Pinhole Projectors
 - 2023 Annular Solar Eclipse - USA Map - NASA Pinhole Projector:
<https://nasa3d.arc.nasa.gov/detail/usa-eclipse-2023>
 - 2024 Total Solar Eclipse - USA Map - NASA Pinhole Projector:
<https://nasa3d.arc.nasa.gov/detail/usa-eclipse-2024>
- My NASA Data: Interactive Lessons
 - Solar Terrestrial Relations Observatory (STEREO):
https://www.nasa.gov/mission_pages/stereo/main/index.html
 - Solar Dynamics Observatory (SDO):
https://www.nasa.gov/mission_pages/sdo/main/index.html
 - Deep Space Climate Observatory (DSCOVR) missions:
<https://solarsystem.nasa.gov/missions/DSCOVR/in-depth/#:~:text=DSCOVR%20>
- NASA Resources:
 - NASA Eclipse Website (updates, resources, events, etc.):
<https://solarsystem.nasa.gov/eclipses/home/>
 - Public Annular Eclipse Training Slides:
<https://solarsystem.nasa.gov/resources/2968/annular-solar-eclipse-training/?category=heat>

- Sign Up for the Eclipse Newsletter: go.nasa.gov/3oObEDI
- My NASA Data / HEAT Formal Education Resources:
<https://myasadata.larc.nasa.gov/phenomenon/solar-eclipse>
- HEAT-developed Eclipse Resources (continually updated with new materials):
https://solarsystem.nasa.gov/heat/all-resources/?order=pub_date+desc&per_page=50&page=0&search=Eclipse&filter_categories%5B0%5D%5B%5D=469&fs=&ft=&dp=&category=469

MaryKay Severino, ARISA Lab LLC, Eclipse Soundscapes Project: ESCSP_PI@arisalab.org

- Eclipse Soundscapes: <https://eclipsesoundscapes.org/>
- Visit the website for more information and videos:
 - Get Involved in the Eclipse Soundscapes Project - Participation Roles Overview: <https://eclipsesoundscapes.org/roles/>
 - Eclipse Soundscapes Project - The Science: <https://eclipsesoundscapes.org/es-csp-science/>
 - Eclipse Related lesson plans/resources for teachers: <https://eclipsesoundscapes.org/educators/>

Dennis Schatz, National Science Teaching Association (NSTA), Solar Eclipse Activities for Libraries (SEAL): DSchatz@pacsci.org

- Solar Eclipse Activities for Libraries (SEAL): <https://www.starnetlibraries.org/about/our-projects/solar-eclipse-activities-libraries-seal/>
- NSTA Solar Eclipse Resource: <https://www.nsta.org/eclipse>
- Administrator Guide - What School Administrators and Other Education Leaders Need to Know: https://static.nsta.org/pdfs/SolarEclipses2023_Administrator.pdf
- Make a Protective Case for Your Solar-Viewing Glasses Activity: <https://clearinghouse.starnetlibraries.org/astronomy-and-space/731-make-a-protective-case-for-your-solar-viewing-glasses.html>
- Books for Purchase:
 - For Children: “When The Sun Goes Dark” by Andrew Fraknoi and Dennis Schatz: <https://my.nsta.org/resource/108257>
 - For Teachers: “Solar Science: Exploring Sunspots, Seasons, Eclipses, and More” by Dennis Schatz and Andrew Fraknoi: <https://my.nsta.org/resource/102100/solar-science-exploring-sunspots-seasons-eclipses-and-more>

Robyn Higdon, Exploratorium, Eclipse Live Streams: rhigdon@exploratorium.edu

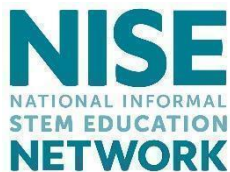
- Exploratorium Eclipse Website (posters, activities, and much more): <https://www.exploratorium.edu/eclipse>
- Watch Live Streams: <https://www.exploratorium.edu/eclipse/livestream>
- Watch a Solar Eclipse On-the-Go App: <https://www.exploratorium.edu/eclipse/total-solar-eclipse-app>
- Exploratorium’s YouTube Channel: <https://www.youtube.com/@exploratorium/videos>
- Navajo Knowledge of the Cosmos: <https://www.exploratorium.edu/eclipse/navajo-understanding-eclipses>

Vivian White, Astronomical Society of the Pacific, Night Sky Network, Eclipse Ambassadors:
vwhite@astrosociety.org

- Astronomical Society of the Pacific (ASP): <https://astrosociety.org/>
- ASP - How to Hold Partial Eclipse Parties in 2023 & 2024 Tips Sheet: bit.ly/partialeclipseparty
- NASA Planning Your Eclipse Party Tips: <https://eclipse2017.nasa.gov/planning-your-eclipse-party>
- Suggested Videos to See Crowd Reactions to Past Eclipses:
 - Eclipse 2017: One Nation Under The Sun NPR (featured during workshop from 4:15-6:45): <https://youtu.be/VAEUYM4Een4?feature=shared&t=255>
 - Total Solar Eclipse in Svalbard 2015: <https://youtu.be/dRAkhQ6CfmA>
 - NASA Scientific Visualization Studio 2016 Eclipse: <https://svs.gsfc.nasa.gov/12147>
 - Alaska Airlines Solar Eclipse Flight #870: <https://www.youtube.com/watch?v=YBoa81xEvNA>
 - (1/2) Total Solar Eclipse 2012 Live by Panasonic and NASA from Australia: <https://youtu.be/mOXnnnR9PKk?t=6m8s>
 - Fred Espenak, Great American Eclipse of 2017 NEAF Talks: <https://youtu.be/K4KnxE6yAul?t=13m10s>
- Apply for Eclipse Ambassadors Off the Path: www.eclipseambassadors.org
- Find an Eclipse Ambassador Near You: [Eclipse Ambassador Map](#)
- ASP's Eclipse Stars for Teachers and Scientists on the Path of Totality: <https://astrosociety.org/education-outreach/asp-eclipse-stars/>

Staying Connected to the NISE Network

- Upcoming NISE Network online workshops: <https://www.nisenet.org/events>
- Read the monthly newsletter: <https://www.nisenet.org/newsletter>
- Follow #nisenet on social media: <https://www.nisenet.org/social>



This material is based upon work supported by NASA under award number 80NSSC21M0082. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the view of the National Aeronautics and Space Administration (NASA).

Developed and distributed by the National Informal STEM Education Network.
Copyright 2023, Arizona State University. Published under a Creative Commons Attribution-Noncommercial-ShareAlike license: <http://creativecommons.org/licenses/by-ncsa/3.0/us/>