

List of Eclipse Links

Updated

23/Jan/2024

See also <https://moecclipse.org/> and

Michael Zeiler from the Great American Eclipse

<https://www.greatamericaneclipse.com/>

Eugene Vale dropbox (4DonFicken folder)

<https://www.dropbox.com/scl/fo/lhi59ce3d6ama76994xzc/h?rlkey=fvfkkm4easin89wi08m5mzgw&dl=0>

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1. Viewing the sun safely.
 - a. <https://www.owu.edu/about/offices-services-directory/perkins-observatory/observing-astronomical-events/solar-viewing-and-eclipses/> Especially the Safe Methods of Viewing section [scroll down].
 - b. <https://eclipse.gsfc.nasa.gov/SEhelp/safety2.html>
 - c. Sun funnel <https://www.nightwise.org/sun-funnel>
https://www.nightwise.org/files/ugd/4c0e6f_6e77c0d9bd2f4628bce9f6809d52cf7c.pdf
 - i. Screen material
<https://www.avoutlet.com/home-theater/projection-screens/diy/da-lite-41468-da-tex-cut-to-size/>
<https://shop.carlofet.com/golf-enclosures-and-impact-screens/carls-sample-pack> Note: Order a rear projection sample pack. Use White Rear Projector Screen Material.
 - ii. Large Clamp
<https://www.lowes.com/pd/Apollo-IDL14/5005337625>
<https://www.oreillyauto.com/search?q=MP5080>
 - iii. Small Clamp (2 pack)
<https://www.lowes.com/pd/AMERICAN-VALVE-2-Pack-13-16-in-to-1-3-4-in-dia-Stainless-Steel-Adjustable-Clamp/1000340347>
<https://www.oreillyauto.com/search?q=MP5020>
 - iv. Funnel
<https://www.oreillyauto.com/detail/c/flotool/hopkins-flotool-black-plastic-funnel/hop5/05034?q=05034&pos=0>
<https://www.amazon.com/Hopkins-FloTool-05034-Super-Funnel/dp/B000BO8YVM>
 - d. Solar Filters
 - i. Reputable Vendors of Solar Filters & Viewers—Solar Eclipse Across America
<https://eclipse.aas.org/resources/solar-filters>
 - ii. <https://www.seymoursolar.com>
 - iii. <https://www.daystarfilters.com/ULF/ULF.shtml>
 - iv. There are others google for them.
 - e. Eclipse glasses—Be very careful. Counterfeit glasses showed up in 2017—especially as the eclipse neared and legitimate supplies ran short. Order from the manufacturer and look for ISO 12312-2:2015 certification.
 - i. Reputable Vendors of Solar Filters & Viewers—Solar Eclipse Across America
<https://eclipse.aas.org/resources/solar-filters>
 - ii. Mo. Eclipse Taskforce has a special deal (35¢ each—minimum order 3,000. Price will go up Oct. 1, but should still be a good deal.) with Rainbow Symphony. <https://moecclipse.org/9-about/30-mo-eclipse-task-force-solar-glasses>
 - iii. Rainbow Symphony <https://www.rainbowsymphony.com/pages/customize-eclipse-glasses#cat-list>
 - iv. American Paper Optics <https://www.eclipseglasses.com/>
2. Eclipse Calculators both will require you to select the appropriate eclipse date and to put in your location.
 - a. US Naval Observatory: <https://aa.usno.navy.mil/data/SolarEclipses> You will need GPS coordinates in decimal degrees.
 - b. Xavier Jubier: http://xjubier.free.fr/en/site_pages/SolarEclipseCalc_Diagram.html You will need GPS coordinates in degrees and decimal minutes.

3. Education & Activity links
 - a. Astronomical Society of the Pacific [Astronomical Society of the Pacific](https://www.astrosociety.org/)
Young Children & Preschool
 - i. PreSchool Activities <https://astrosociety.org/education-outreach/education-activities/ages-4-6-years.html>
 - ii. Video--Eclipse with Young Children <https://vimeo.com/217753450>
 - iii. Day and Night https://astrosociety.org/file_download/ee8bc69f-e014-4d34-98d3-28d5ee61e306
Video--Use Day & Night <https://vimeo.com/showcase/4363990/video/187243102>
 - iv. Bear's Shadow https://astrosociety.org/file_download/081d9825-1345-448f-84ef-b9263ade70c2
 - v. Video—Using Bear's Shadow <https://vimeo.com/showcase/4363990/video/184067973>
 - vi. K-12 <https://astrosociety.org/education-outreach/k-12-science-teachers/>
 - b. University of Illinois <http://eclipse.illinois.edu/teachers.html>
 - c. PBS_Resources https://ninepbs.pbslearningmedia.org/search/?q=Eclipse&selected_facets=&selected_facets=
 - d. Materials—you may do better shopping for yourself, but here are some sources:
 - i. 1" Smoothfoam balls <https://www.walmart.com/ip/Smoothfoam-1/47162885>
 - ii. Yellow Yoga ball <https://www.walmart.com/ip/Yoga-Ball-By-BODYSPOUR-Yellow-65-cm-Great-for-Pilates-Exercise-Fitness-Balls-or-Small-Desk-Chair-FREE-Pump-Exercise-Guide-Included/109267176>
 - iii. 6-7 mm white glass beads <https://www.firemountaingems.com/itemdetails/h20j6799cl>
 - iv. Meter stick <https://www.teachersupplysource.com/product/201205/meter-stick-with-hole-for-storage/>
 - v. Inflatable Solar System Set
<https://www.dickblick.com/search/?q=Learning%20Resources%20Giant%20Inflatable%20Solar%20System%20Set> or <https://www.teachersupplysource.com/product/1266832/inflatable-solar-system/>
 - vi. Earth Ball 16 inch <https://www.globestore.com/inflatable-topographical-globe-by-replogle-p/15601.htm> or <https://www.dkclassroomoutlet.com/earth-ball-16-inch>
 - vii. ½" Natural Clear Polypro hoop material
<https://www.hoopologie.com/catalog/product/view/id/594/s/polypro-tubing-natural-1-2/>
 - viii. Build Your Own Spectroscope, Pack of 25. Note: These may be shipped with diffraction grating already included. <https://shop.astronomerswithoutborders.org/products/spectroscope-iv>
 - ix. Diffraction grating 25,400 Lines/Inch, 2" Square Card, 25/Pack <https://www.edmundoptics.com/p/25400-linesinch-2quot-square-card-25pack/4523/>
 - e. Yardstick Eclipse <https://myasp.astrosociety.org/product/KT110/yardstickeclipseactivity.php>
 - f. Shadow Bands <https://eclipse2017.nasa.gov/exploring-shadow-bands>
 - g. Spectroscope: other DIY instructions, see d viii & ix above:
 - i. NASA <https://stereo.gsfc.nasa.gov/classroom/spectroscope.shtml>
 - ii. BuggyandBuddy (Note: annoying ads) <https://buggyandbuddy.com/homemade-spectroscope/>
 - h. Make your own Sun Clock
<https://faculty.tamuc.edu/cdavis/resources/AESP/InstructionalMaterials/Making%20a%20Sun%20Clock.pdf>
4. April 8, 2024 Total Eclipse (Totality passes through SE Missouri).
 - a. NASA <https://solarsystem.nasa.gov/eclipses/future-eclipses/eclipse-2024/>
 - b. <https://eclipse2024.org/>
 - c. <https://www.greatamericaneclipse.com/april-8-2024>
 - d. American Astronomical Society <https://eclipse.aas.org/eclipse-america-2024>
 - e. Animation <https://www.youtube.com/watch?v=PUFLQwUQH6s>
 - f. https://eclipse2024.org/eclipse_cities/statemap.html
 - g. http://xjubier.free.fr/en/site_pages/solar_eclipses/xSE_GoogleMap3.php?Ecl=+20240408&Acc=2&Umb=1&Lmt=1&Mag=1&Max=1 In my experience, this is a very good source. Click anywhere on the interactive map, and you get information on the eclipse at that point.
 - h. A High Definition and lengthy (ca. 15 min) animation. Somewhat confusing because south is at the top and you are backing into the United States. <https://www.youtube.com/watch?v=08ZBrpx1fMY>
5. Solar System Costumes
 - a. Sun: only adult <https://www.halloweencostumes.com/adult-inflatable-sun-costume.html>
 - b. Earth: adult <https://www.halloweencostumes.com/adult-inflatable-earth-costume.html>
child <https://www.halloweencostumes.com/kids-earth-costume.html>
 - c. Moon: adult <https://www.halloweencostumes.com/adult-inflatable-moon-costume.html>
child <https://www.halloweencostumes.com/kids-moon-costume.html>