

# Resource Guide for Eclipses and the 2017 Total Eclipse

*Andrew Fraknoi (Foothill College)*

## Popular-Science Books About Eclipses

- Bakich, M. 2016. *Your Guide to the 2017 Total Solar Eclipse*. New York: Springer. [An introductory guide to eclipse science, viewing, and travel by one of the editors of \*Astronomy\* magazine.](#)
- Harrington, P. E. 1997. *The What, Where, When, Why, and How Guide to Watching Solar and Lunar Eclipses*. New York: Wiley. [A guide from a veteran amateur astronomer and author.](#)
- Littmann, M. F. Espenak, and K. Willcox. 2009. *Totality: Eclipses of the Sun*. Oxford, UK: Oxford University Press. [A primer on the astronomy behind and observation of eclipses, written by three experienced astronomy authors.](#)
- Nordgren, T. 2016. *Sun Moon Earth: The History of Solar Eclipses From Omens of Doom to Einstein and Exoplanets*. New York: Basic Books. [An engaging history of the lore and science of eclipses.](#)
- Schatz, D, and A. Fraknoi. 2015. *Solar Science: Exploring Sunspots, Seasons, Eclipses, and More*. 2015, Arlington, VA: National Science Teachers Association Press. [A book featuring detailed instructions for 45 activities for classrooms, libraries, and nature centers.](#)

## Children's Books About Solar Eclipses

- Espenak, P. T. 2015. *Total Eclipse or Bust! A Family Road Trip*. Portal, AZ: AstroPixels Publishing. [A family goes on a trip to see the 2017 eclipse.](http://astropixels.com/pubs) <http://astropixels.com/pubs>
- Coffelt, N. 2016. *The Big Eclipse*. Portland, OR: Orbit Oregon. [Brief, illustrated e-book self-published \(Amazon\).](#)
- Fraknoi, A., and D. Schatz. 2017. *When the Sun Goes Dark*. NSTAKids. [An illustrated book for ages 9–12 that explains eclipses and why they're fascinating.](#)

## Articles About Eclipses in General

- Bakich, M. 2008. Your Twenty-Year Solar Eclipse Planner. *Astronomy* October 2008: 74. [An article describing the circumstances of upcoming total eclipses of the Sun.](#)
- Pasachoff, J. M. Solar Eclipse Science: Still Going Strong. *Sky and Telescope* (February 2001): 40. Discusses what we have learned and are still learning from eclipses.
- Regas, D. The Quest for Totality. *Sky and Telescope* 62 (July 2012): 36. [Eclipse chase hobby.](#)

Zeiler, M. The Evolving Eclipse Map. *Sky and Telescope* 65 (November/December 2012): 34. [A cartographer discusses how maps of eclipse paths have been changing in the computer era.](#)

## Articles About Eclipses and History

Olson, D. Columbus and an Eclipse of the Moon. *Sky and Telescope* 84 (October 1992): 437–440.

Schaefer, B. Lunar Eclipses That Changed the World. *Sky and Telescope* (December 1992): 639–642.

Schaefer, B. Solar Eclipses That Changed the World. *Sky and Telescope* (May 1994): p. 36–39.

## Articles About the 2017 Eclipse

Bakich, M. E. First Look at the 2017 Total Eclipse. *Astronomy* June 2015: 54.

Bakich, M. E. Plan Now for the 2017 Eclipse. *Astronomy* March 2016: 54. [Discusses 25 tips for eclipse observation.](#)

Bakich, M. E. Solar Eclipse 2017. *Astronomy* August 2016: 56. [Discusses eclipse-observation hints.](#)

Espenak, F., and J. Anderson, J. Get Ready for America's Coast to Coast Experience. *Sky and Telescope* February 2016: 22. Downloadable from [www.skyandtelescope.com/wp-content/uploads/2017-Eclipse-Guide.pdf](http://www.skyandtelescope.com/wp-content/uploads/2017-Eclipse-Guide.pdf).

## Where to Obtain Certified Eclipse Glasses

American Paper Optics. [www.eclipseglasses.com](http://www.eclipseglasses.com).

Rainbow Symphony, [www.rainbowsymphony.com/eclipse-glasses](http://www.rainbowsymphony.com/eclipse-glasses).

## Websites About Eclipses

Hermit Eclipse. 2017. <http://moonblink.info/Eclipse>. Website with information such as how eclipses work, dates of future eclipses, and more.

Mr. Eclipse.com. [www.mreclipse.com/MrEclipse.html](http://www.mreclipse.com/MrEclipse.html). Website created by former NASA astronomer Fred Espenak that provides introductory, explanatory material about the upcoming eclipse and about eclipses generally.

NASA Eclipse Web Site. [eclipse.gsfc.nasa.gov/eclipse.html](http://eclipse.gsfc.nasa.gov/eclipse.html). Website containing reliable information on past and future eclipse paths and circumstances; tends to be a bit technical.

Society for Popular Astronomy. How to observe the partial eclipse on 20 March 2015 by Dr Lucie Green (8 min). <https://vimeo.com/119636834>. Video explaining how to safely view an eclipse.

The Exploratorium. 2017. *The Total Eclipse*. [www.exploratorium.edu/eclipse/map-calendar](http://www.exploratorium.edu/eclipse/map-calendar). Website page containing a Solar Eclipse 2017 Map and Calendar that shows not only the 2017 total eclipse, but also the paths of all total solar eclipses for 2010–2035.

## Maps for the 2017 Eclipse

Jubier, X. M. 2017. Google Interactive Map of Solar Eclipse August 21, 2017. [http://xjubier.free.fr/en/site\\_pages/solar\\_eclipses/TSE\\_2017\\_GoogleMapFull.html](http://xjubier.free.fr/en/site_pages/solar_eclipses/TSE_2017_GoogleMapFull.html).

NASA's Jet Propulsion Laboratory. NASA's Eyes 2017 Eclipse App. <http://eyes.jpl.nasa.gov/eyes-on-eclipse.html>.

NASA Solar Dynamics Observatory (SDO). Total Eclipse of August 21, 2017 Map. <http://sdo.gsfc.nasa.gov/epo/educators/2017eclipse.html>.

Zeiler, M. *Tour the Great American Eclipse of 2017* Map App. <https://tse2017.maps.arcgis.com/apps/webappviewer/index.html?id=d4cf0c22a2df4b6683acc4cd621aca7a>. The map gives local eclipse information, including times and length of totality for locations in the path, and percentages of totality for locations outside the path. Also, there is a video explaining how to use the app at <https://vimeo.com/192379357>.

Zeiler, M. *Map for the April 2024 Eclipse*. <https://www.greatamericaneclipse.com/april-8-2024/>. A map for the next eclipse visible from the U.S.

## Websites About the 2017 Eclipse

American Astronomical Society. 2017. *Solar Eclipse Across America*. <http://eclipse.aas.org>.

Anderson, J., and J. West. Eclipsophile.com. Climate and Weather for Celestial Events. <http://eclipsophile.com/total-solar-eclipses/total-solar-eclipse-2017-august-21/>. Meteorologist Jay Anderson's weather predictions for locations along the eclipse path.

Eclipse Megamovie 2017. <http://eclipsemegamovie.org>. A citizen-science photo project.

Fiske Planetarium. University of Colorado Boulder. Great American Eclipse of the Sun-August 21, 2017. [www.colorado.edu/fiske/eclipse](http://www.colorado.edu/fiske/eclipse).

McGlaun, D. Eclipse2017.org. [www.eclipse2017.org](http://www.eclipse2017.org).

NASA. Total Eclipse August 21, 2017. <http://eclipse2017.nasa.gov>.

NSTA Free Booklet on Eclipse and Viewing. Download from <http://nsta.org/solarscience>.

Zeiler, M. 2016. GreatAmericanEclipse.com. [www.greatamericaneclipse.com](http://www.greatamericaneclipse.com).

## **Where to Find Additional Eclipse-Related Resources**

Fraknoi, A. 2017. 2017 Solar Eclipse Information, Resources, and Events.

[www.astrosociety.org/eclipse](http://www.astrosociety.org/eclipse). From the educational website of the Astronomical Society of the Pacific.