



# EXPERIENCE THE 2017 ECLIPSE ACROSS AMERICA THROUGH THE EYES OF NASA <http://eclipse2017.nasa.gov>

## AUGUST 21, 2017

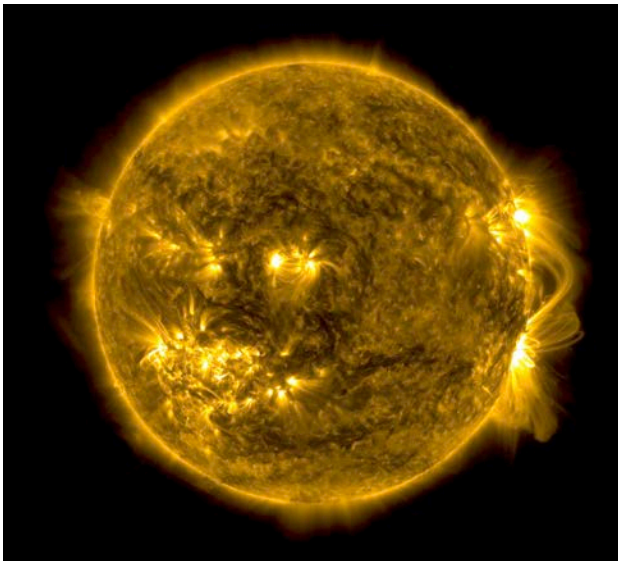


Credit: Rick Fienberg, TravelQuest International and Wilderness Travel



Credit: S. Huber, M. Drudmüller and P. Aniol

## CITIZEN SCIENCE



### Get Involved with Real Research!

The 2017 solar eclipse presents many opportunities for students, amateur astronomers and lifelong learners to get involved with science research. In addition to science projects focusing on the 2017 eclipse, members of the public can assist NASA in learning about the Sun, Earth, Moon and even eclipses in exoplanetary systems. There are programs at every level from the most basic observations to publishable research opportunities in partnership with NASA and university scientists. Join us and experience the excitement of learning and making real discoveries!

To learn more about citizen science projects at NASA, go to: [science.nasa.gov/citizenscientists](http://science.nasa.gov/citizenscientists)

[www.nasa.gov](http://www.nasa.gov)

### Explore These Opportunities

#### Citizen CATE (National Solar Observatory)

The Citizen Continental-America Telescopic Eclipse (CATE) Experiment will use more than 60 identical telescopes equipped with digital cameras positioned from Oregon to South Carolina to image the solar corona. The project will then splice these images together to show the corona during a 90-minute period, revealing for the first time the plasma dynamics of the inner solar corona.

[eclipse2017.nso.edu/citizen-cate](http://eclipse2017.nso.edu/citizen-cate)

#### GLOBE Observer (NASA, NOAA, NSF & U.S. Department of State)

What happens in the atmosphere and on Earth's surface when the Sun's light is blocked, even temporarily? By collecting data during the eclipse, you can help us explore how the eclipse changes atmospheric conditions. You will also be contributing to a database used by students and scientists to study the effects of the eclipse on the atmosphere. Even if you are not on the path of totality, you can provide useful comparison data. General citizen scientists can observe clouds and air temperature with GLOBE Observer, while those interested in pursuing additional online training (especially formal and informal educators) are encouraged to check out other data collection and research ideas from the full GLOBE Program.

[www.globe.gov/web/eclipse/overview](http://www.globe.gov/web/eclipse/overview)

## Other Projects Related to the 2017 Eclipse

The QuantumWeather Project (Saint Louis University): [www.slu.edu/departments-of-earth-and-atmospheric-sciences-home/research-centers/quantum-weather](http://www.slu.edu/departments-of-earth-and-atmospheric-sciences-home/research-centers/quantum-weather)

HamSCI (Virginia Tech/New Jersey Institute of Technology): [www.hamsci.org/basic-project/2017-total-solareclipse](http://www.hamsci.org/basic-project/2017-total-solareclipse)

Life Responds (California Academy of Sciences): [www.calacademy.org/citizen-science/solar-eclipse-2017](http://www.calacademy.org/citizen-science/solar-eclipse-2017)

## Projects Related to the Sun, Earth, Moon, and Eclipses in Exoplanetary Systems

Aurorasaurus (NSF/NASA): [www.aurorasaurus.org](http://www.aurorasaurus.org)

SunSpotter (Zooniverse): [www.sunspotter.org](http://www.sunspotter.org)

Sungrazer Project (U.S. Navy & NASA): <https://sungrazer.nrl.navy.mil/>

Solar Stormwatch II: Storm Front (Zooniverse): [www.zooniverse.org/projects/lepnoir/solarstormwatch-ii](http://www.zooniverse.org/projects/lepnoir/solarstormwatch-ii)

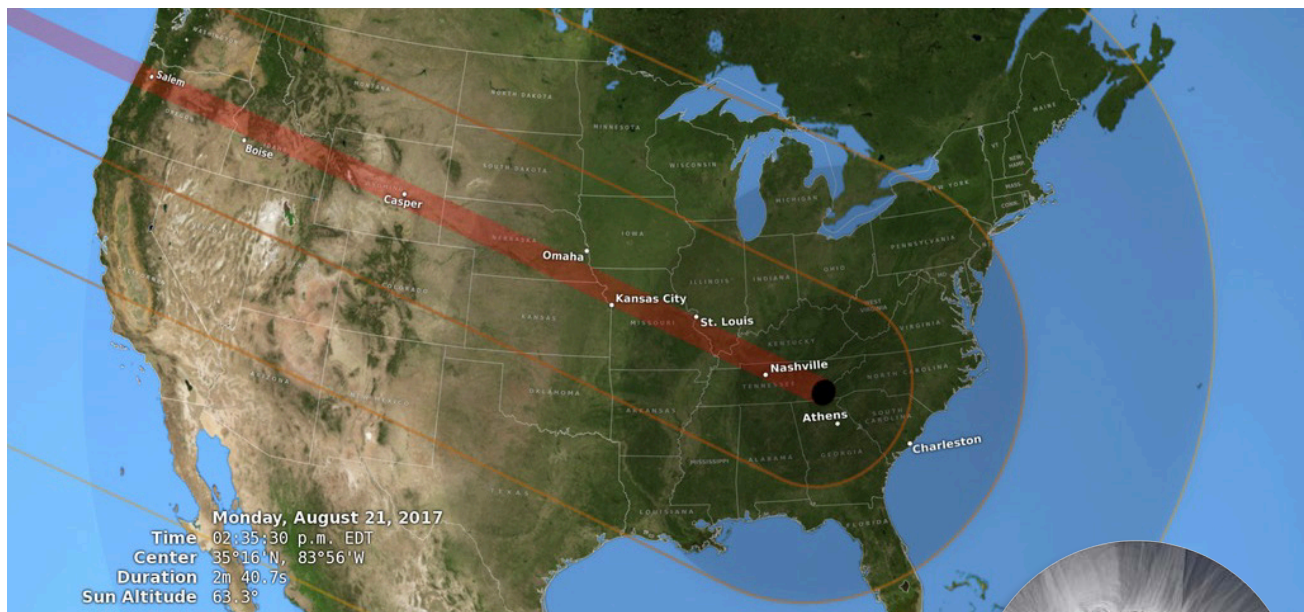
Image Detective (NASA): [eol.jsc.nasa.gov/BeyondThePhotography/ImageDetective](http://eol.jsc.nasa.gov/BeyondThePhotography/ImageDetective)

Moon Zoo (Zooniverse): [www.moonzoo.org](http://www.moonzoo.org)

Moon Mappers (NASA): [cosmoquest.org/x/science/moon](http://cosmoquest.org/x/science/moon)

Lunar Impact Monitoring (NASA): [www.nasa.gov/centers/marshall/news/lunar](http://www.nasa.gov/centers/marshall/news/lunar)

Planet Hunters (Zooniverse): [www.planethunters.org](http://www.planethunters.org)



### ADDITIONAL RESOURCES:

NASA Citizen Science Home Page: [science.nasa.gov/citizenscientists](http://science.nasa.gov/citizenscientists)

NASA Eclipse Citizen Science: [eclipse2017.nasa.gov/citizen-science](http://eclipse2017.nasa.gov/citizen-science)

NASA Eclipse 2017 Home Page: [eclipse2017.nasa.gov](http://eclipse2017.nasa.gov)

