



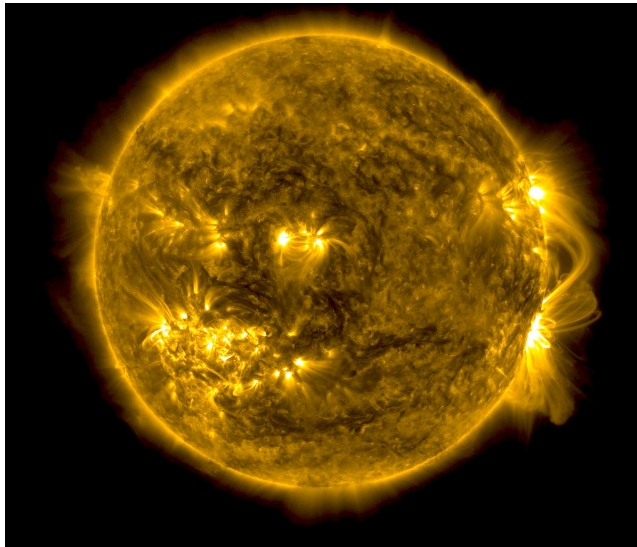
Credit: S. Hildner, M. Dürdemüller, and P. Aniol



Credit: Rick Fienberg, TravelQuest International and Wilderness Travel



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

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

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



Citizen Science Opportunities, Continued

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

HamSCI (Virginia Tech/New Jersey Institute of Technology)

www.hamsci.org/basic-project/2017-total-solar-eclipse

Life Responds (California Academy of Sciences)

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

SunSpotter (Zooniverse)

www.sunspotter.org

Sungrazer Project (U.S. Navy & NASA)

sungrazer.nrl.navy.mil

Solar Stormwatch II: Storm Front (Zooniverse)

www.zooniverse.org/projects/lepnoir/solar-stormwatch-ii

Image Detective (NASA)

eol.jsc.nasa.gov/BeyondThePhotography/ImageDetective

Moon Zoo (Zooniverse)

www.moonzoo.org

Moon Mappers (NASA)

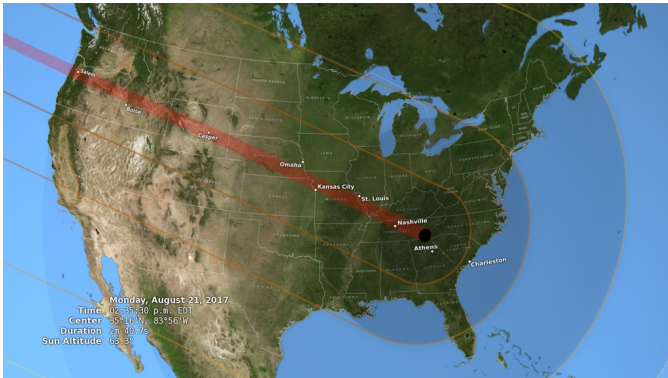
cosmoquest.org/x/science/moon

Lunar Impact Monitoring (NASA)

www.nasa.gov/centers/marshall/news/lunar

Planet Hunters (Zooniverse)

www.planethunters.org



ADDITIONAL RESOURCES:

NASA Citizen Science Home Page: science.nasa.gov/citizenscientists

NASA Eclipse Citizen Science: eclipse2017.nasa.gov/citizen-science

NASA Eclipse 2017 Home Page: eclipse2017.nasa.gov

