

The Eclipse Megamovie Project



A 2017 Total Solar Eclipse Crowdsourced Science, Education,
and Outreach Project

<https://eclipsemega.movie>

Join Us Under the Path of Totality

August 21st, 2017



Join us in this first-of-its-kind citizen science project, gathering scientifically valuable data from the total solar eclipse that will traverse North America on August 21, 2017.

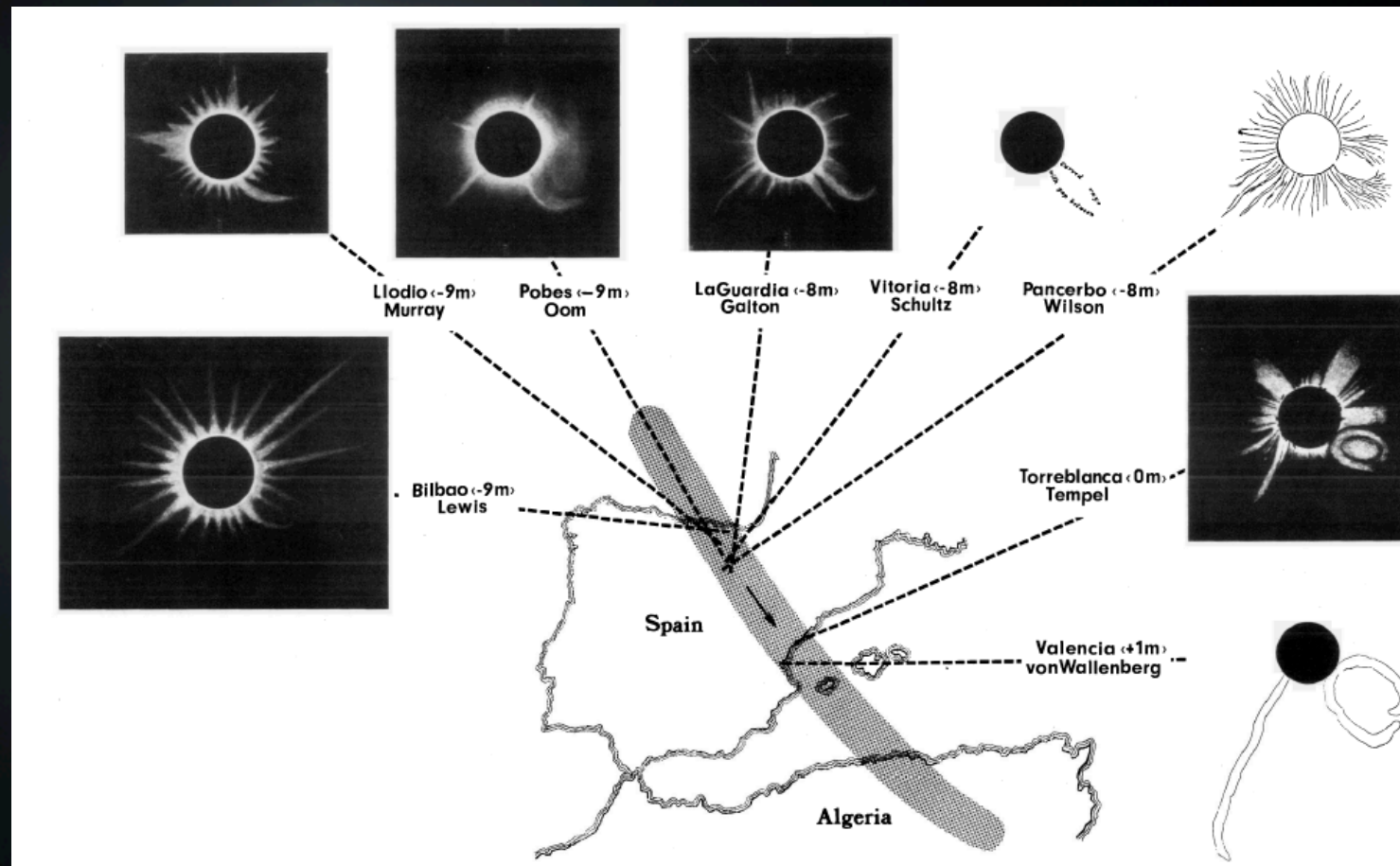
The Eclipse Megamovie Project

The Eclipse Megamovie Project will...

- gather images and video of the 2017 total solar eclipse from over 1,000 volunteer photographers and amateur astronomers,
- gather images and video from members of the general public,
- stitch these media assets together to create an expanded and continuous view of the total eclipse as it crosses the United States,
- make available the images to the public

Studying the Sun's Corona

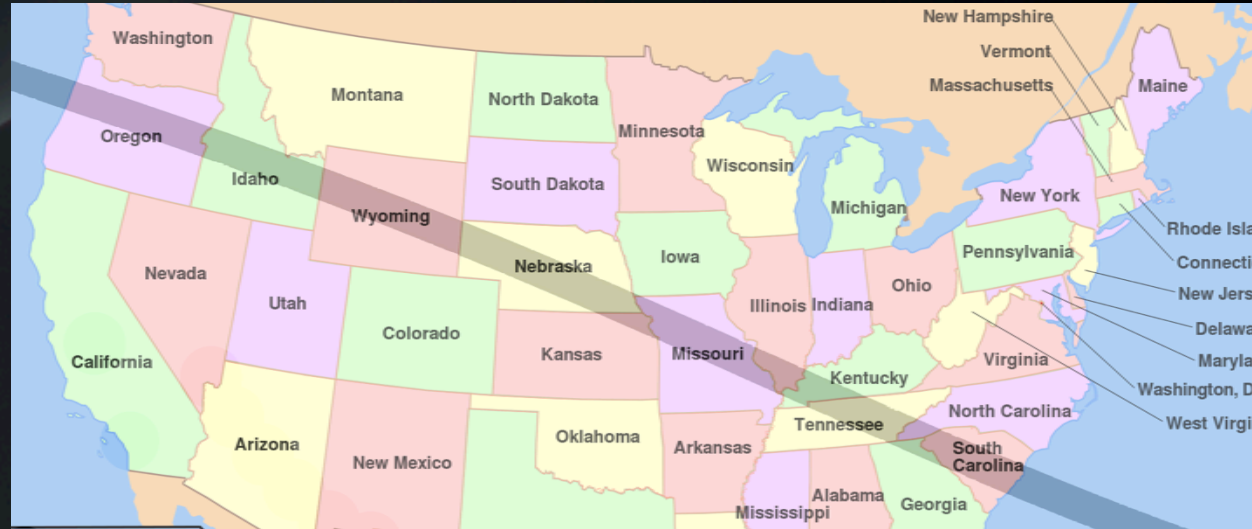
Early effort at crowdsourcing coronal structural changes during the total eclipse of 8 July 1860 and as summarized by Eddy (1974);



Where will you be on August 21st, 2017?

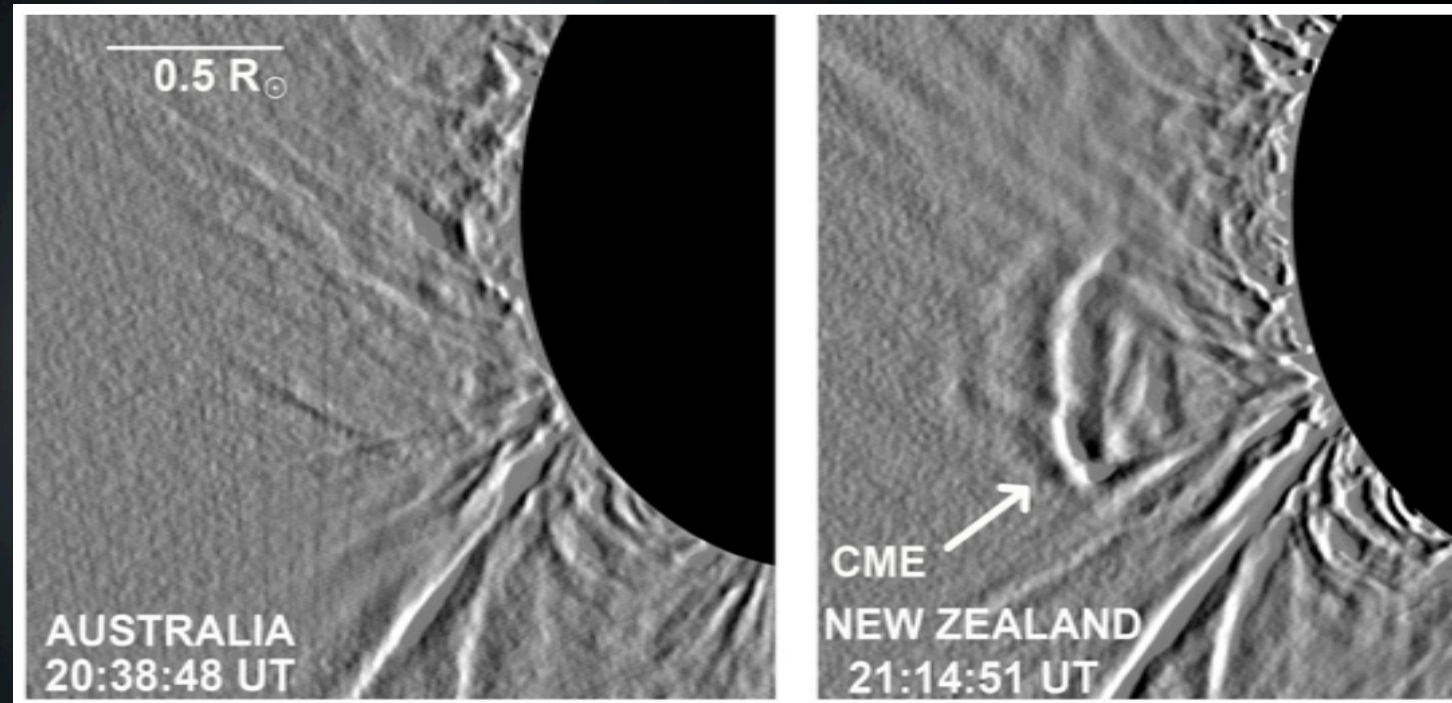
Will you be under the path of totality for the August 21, 2017 Total Solar Eclipse? If so...

we hope you can participate in the project! Details will be available shortly, but visit our website at eclipsemega.movie to sign up for the mailing list to receive updates from the project.



Studying the Sun's Corona

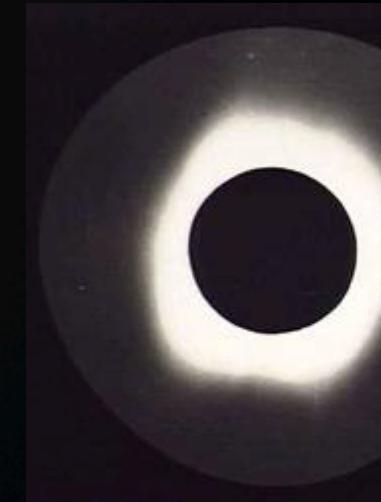
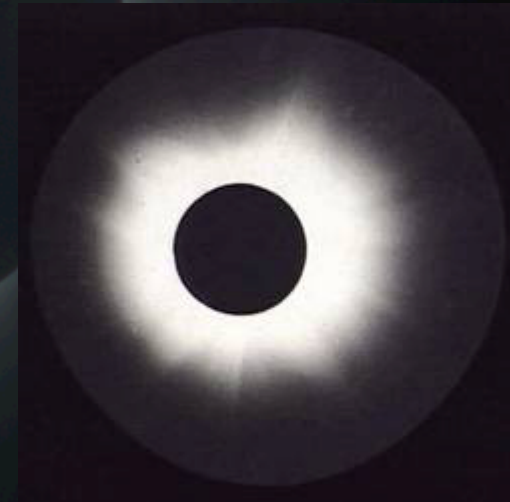
A more modern
two-point image
comparison for the
total eclipse of 13
November 2012
(Pasachoff et al.
2015)



Eclipse Megamovie Potential Examples



potential smart phone –
internal lens setup
eclipsemega.movie



Images could look like this coming from the
public

Eclipse Megamovie: the Diamond Ring

At 2nd and 3rd contacts, we see
“Baily’s Beads”

Nowadays the lunar surface is
known to 5 m accuracy

Eclipse Megamovie will use this knife-
edge for precise solar
measurements, via simple
smartphone cameras

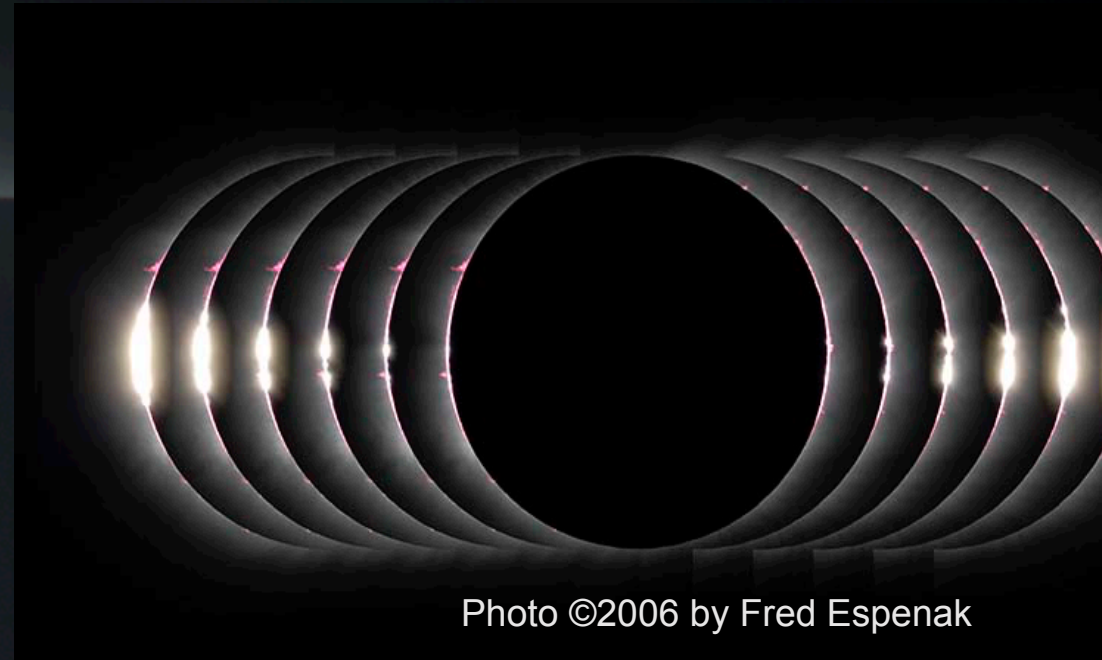
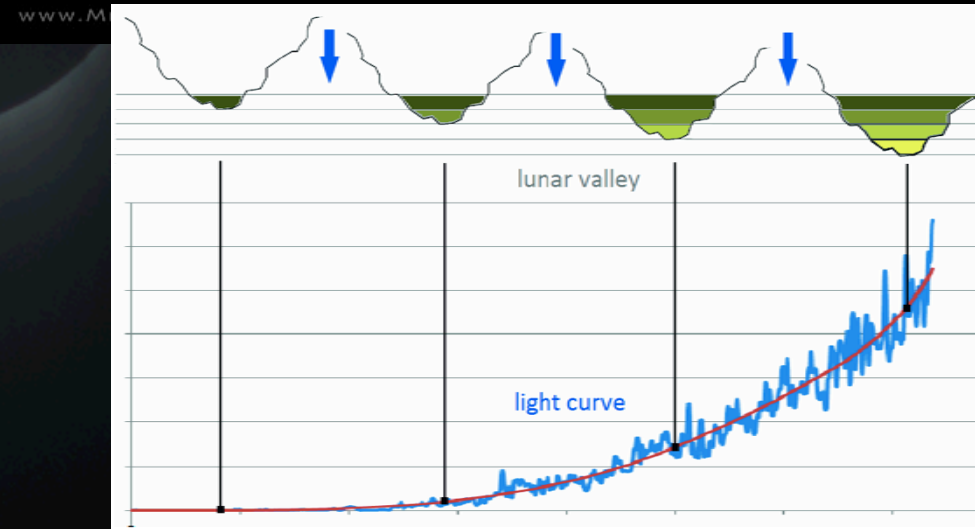


Photo ©2006 by Fred Espenak

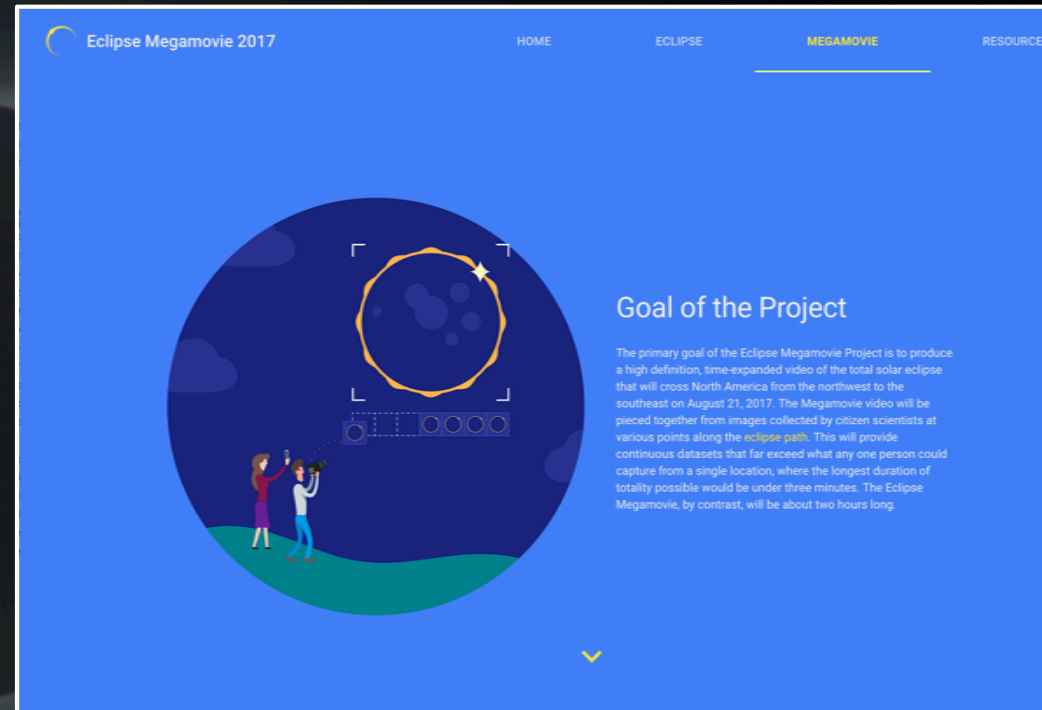
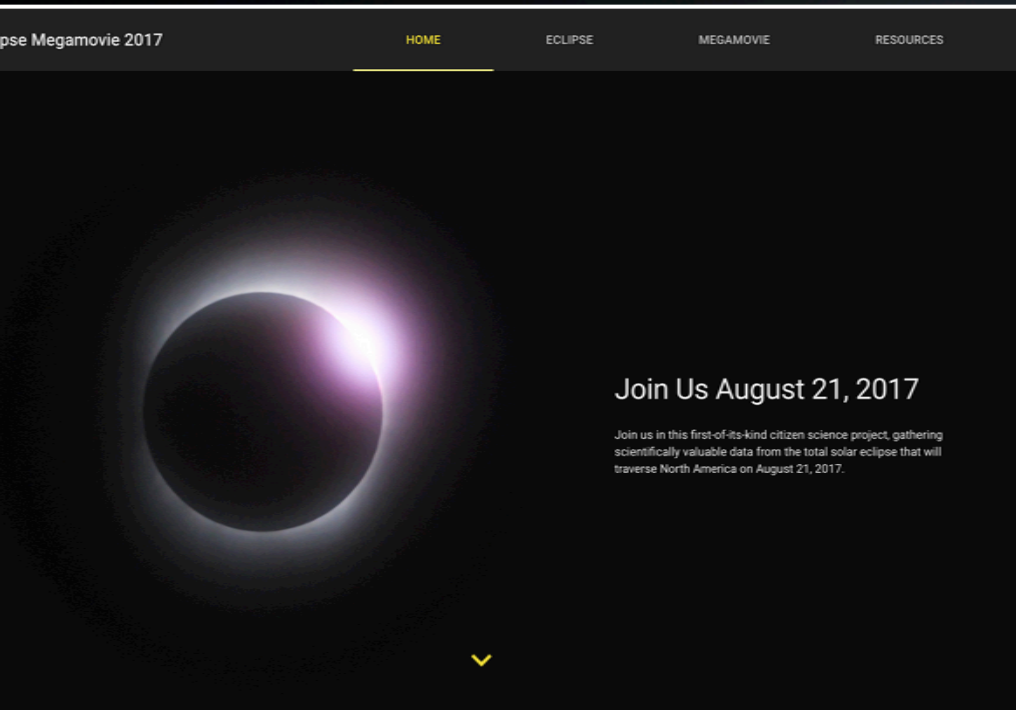


Team Meeting at Google, Dec 2015



*From left to right:
Laura Peticolas, Hudson, Suzy Gu
(Vivian White now
taking on her role)
Mark Bender, Calvin
Johnson, David
Konerding, Larisza
Krista, Scott
McIntosh, Justin K*

Our new website



Learn more at <https://eclipsemega.movie>

About Us

Google's Making & Science team works to support programs that inspire interest in science and making.

Multiverse [UC Berkeley] aims to increase diversity in the fields of earth and space science through multicultural education.

And many more: Astronomical Society of the Pacific; Center for Research on Lifelong STEM Learning, Oregon State University; Eclipse Across America; Foothill College; High Altitude Observatory of the National Center for Atmospheric Research; Lick Observatory; Space Sciences Laboratory, University of California, Berkeley; Williams College; and the International Astronomical Union Working Group