

MOON SHADOW 2

The Solar Eclipse of Monday, April 8, 2024

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Retired Goddard astrophysicist Fred Espenak (“Mr. Eclipse”) websites, with a lot of links-n-things: <http://eclipsewise.com>
and <http://www.mreclipse.com>

Xavier M. Jubier interactive Google map. Single map click gives you times and sun position parameters for partial eclipse or full umbral data for totality locales. Some computers may allow map view to go all the way down to street level:

http://xjubier.free.fr/en/site_pages/solar_eclipses/TSE_2024_GoogleMapFull.html

Solar Eclipse Timer app by Gordon Telepun

>> The Solar Eclipse Timer website - App and useful information: <http://www.solareclipsetimer.com>

A few other apps/programs

>American Astronomical Society page: <https://eclipse.aas.org/resources/apps-software>

>>> Animation from NASA SVS showing moon’s 5-degree planar tilt usually keeps its shadow from touching the earth:

https://svs.gsfc.nasa.gov/vis/a000000/a004300/a004324/eclipse_orbit_1080p30.mp4

>>>> Similar NASA animation showing moon’s planar tilt with explanatory text...and music:

https://svs.gsfc.nasa.gov/vis/a010000/a012500/a012534/EclipsePlane_V6_twitter_720.mp4

Another informative website: <http://www.eclipse2024.org>

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

Paramount concern outside of totality: Eye protection!

>AAS and safety check for eclipse viewing: <https://eclipse.aas.org/eye-safety/iso-certification>

>> The actual ISO 12312-2 specification; you have to BUY it from the ISO: <https://www.iso.org/standard/59289.html>

(Just look for the specification when shopping for protection!)

>>> Do-it-yourself solar filters for camera, binoculars, etc., starting at 2m45s elapsed time. Voice audio is weak, turn up the volume. NOTE: This is a video from the 2017 eclipse, but is still useful: <https://youtu.be/zTJu2ZsLdY8>

>From 2017, a useful discussion by Gordon Telepun, author of Solar Eclipse Timer app, about solar filters and photography considerations using SET app during eclipse: <https://youtu.be/9CJHQxZPW-c>

The US Postal Service Forever eclipse stamp, released in 2017

>USPS release information: https://about.usps.com/news/national-releases/2017/pr17_020.htm

>> Fred Espenak (“Mr. Eclipse”) tells his story about the selection of his HDR photo for the eclipse stamp:

<http://earthsky.org/astronomy-essentials/total-eclipse-of-the-sun-forever-stamp-espenaks-story>

NASA recommendation: “An excellent source for weather prospects for upcoming eclipses” by meteorologist Jay Anderson.

Also recommended by Fred Espenak: <http://eclipsophile.com>

Goddard solar physicist C. Alex Young presentation at Library of Congress on June 15, 2017. Slow paced in some respects but a wealth of diverse information: <https://youtu.be/OHqmpziA4Q>