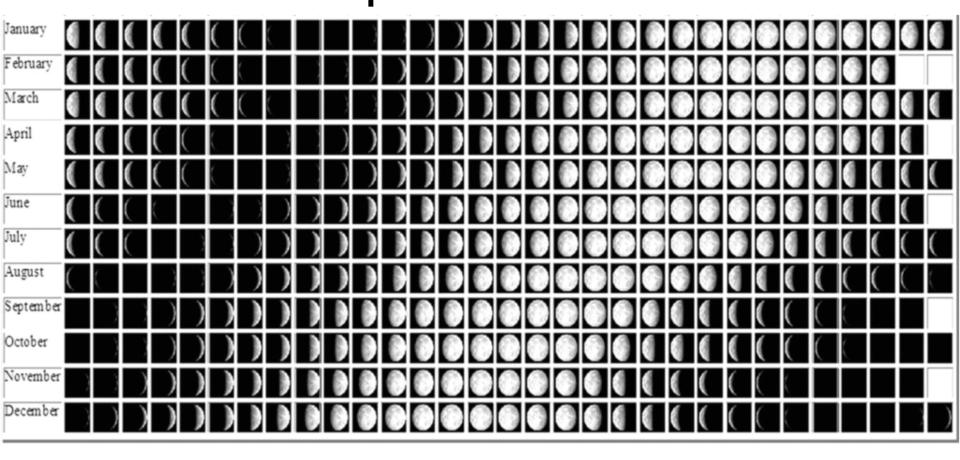
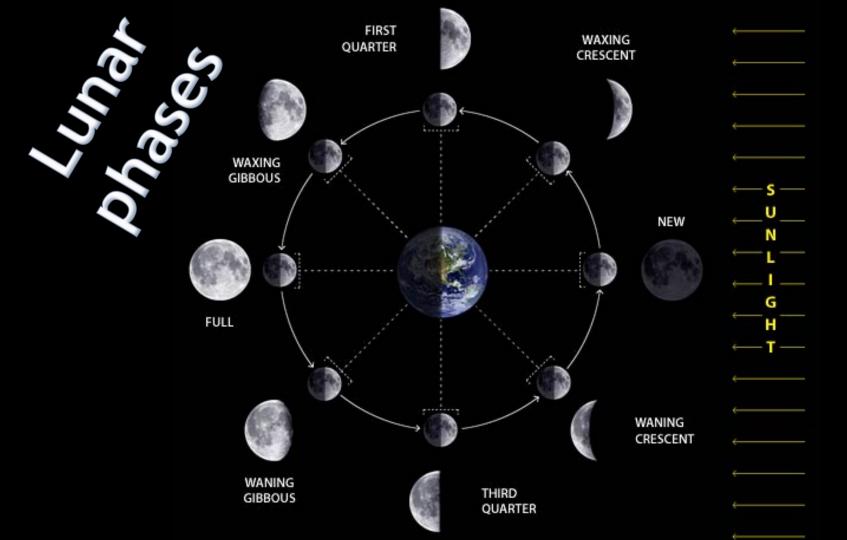
# Tipses Over The Hill County

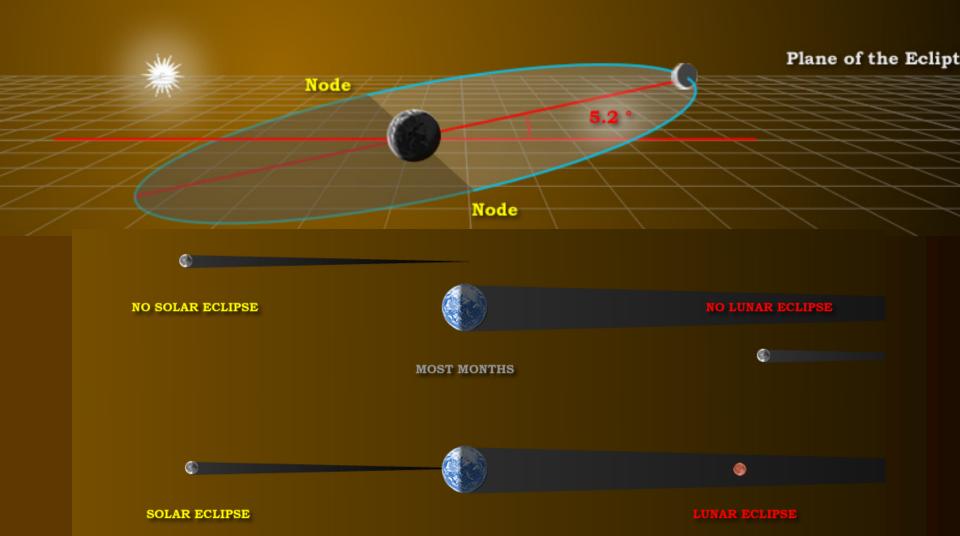
Annular solar eclipse
October 14, 2023

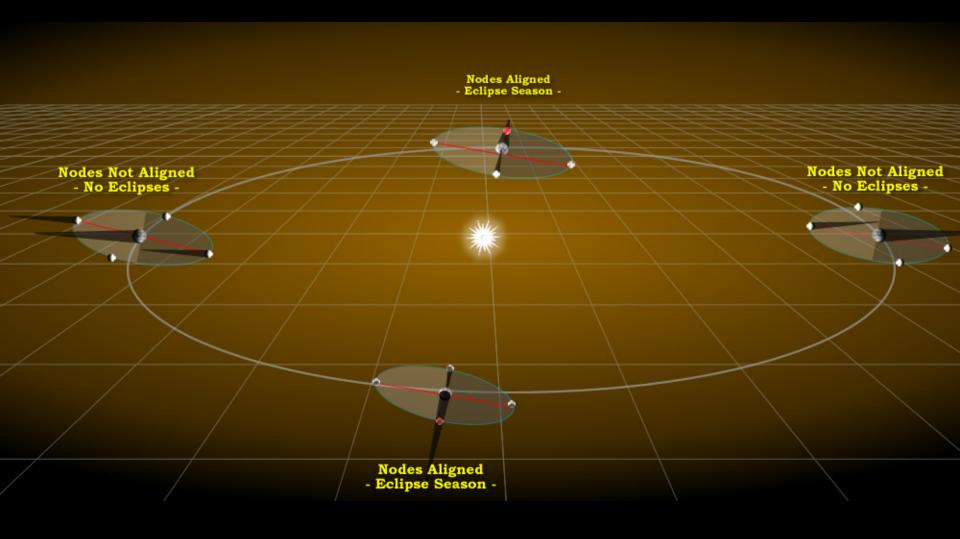


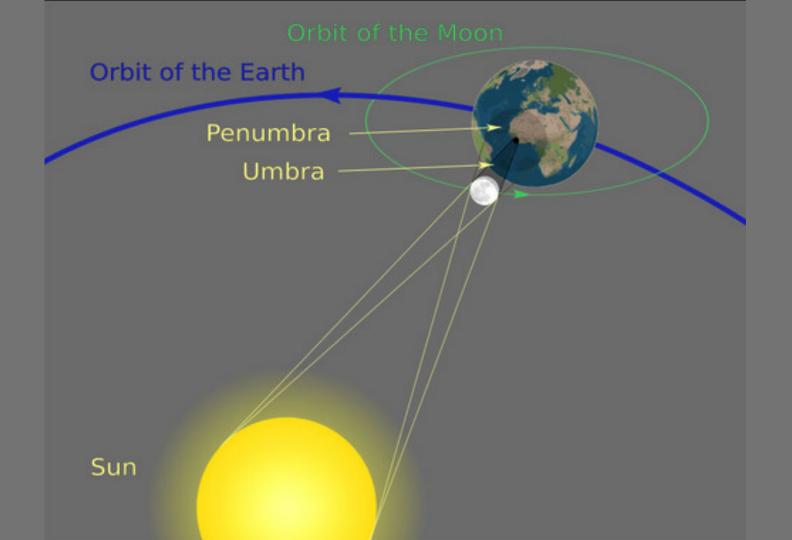
## Moon phases for 2019

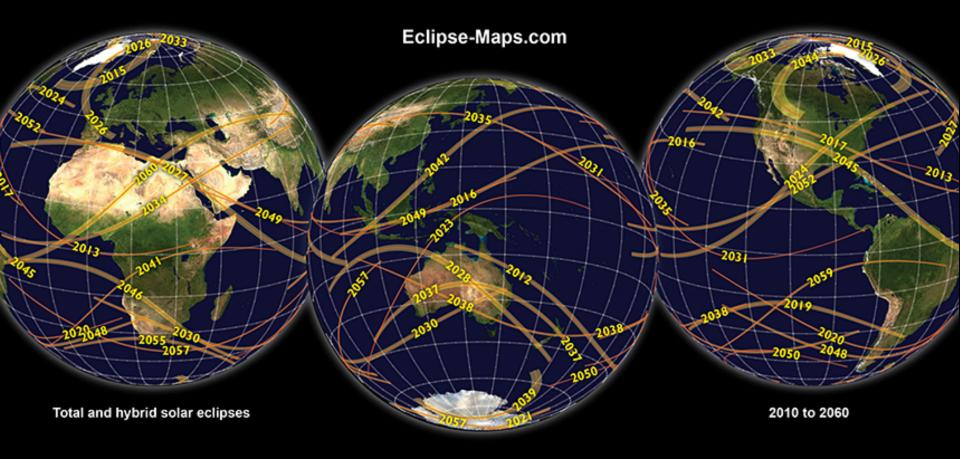


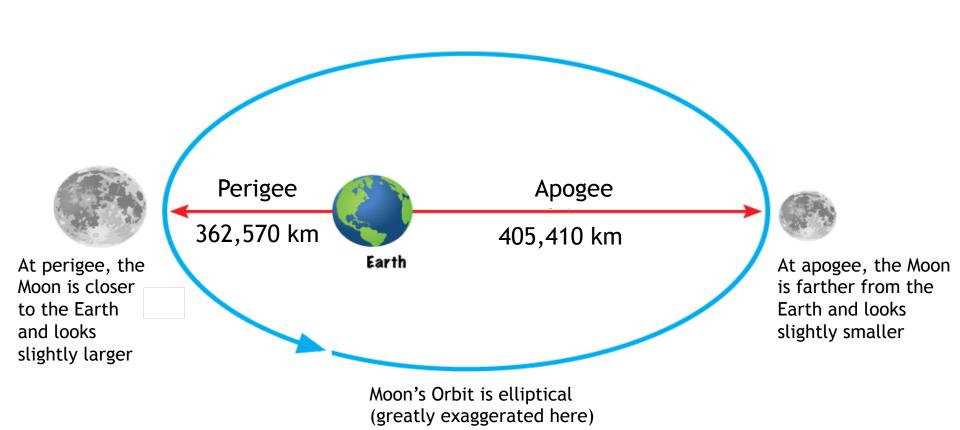


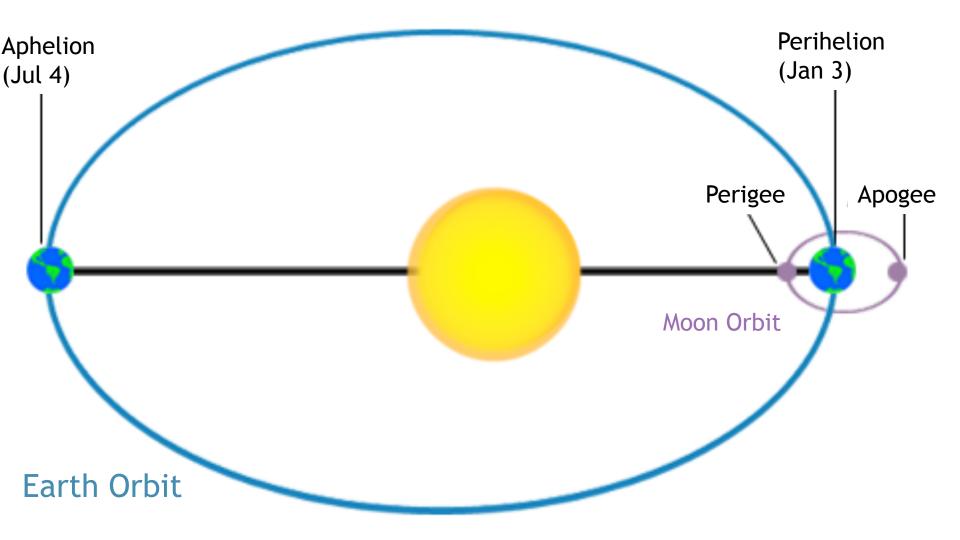






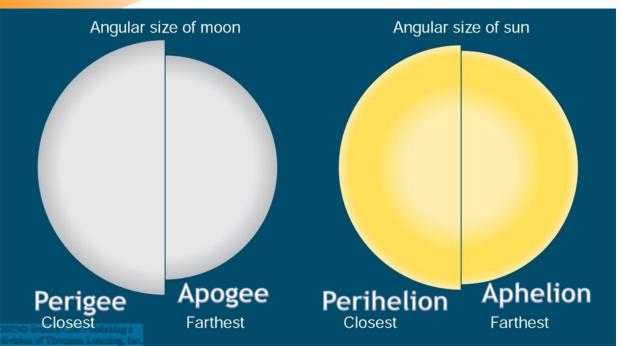






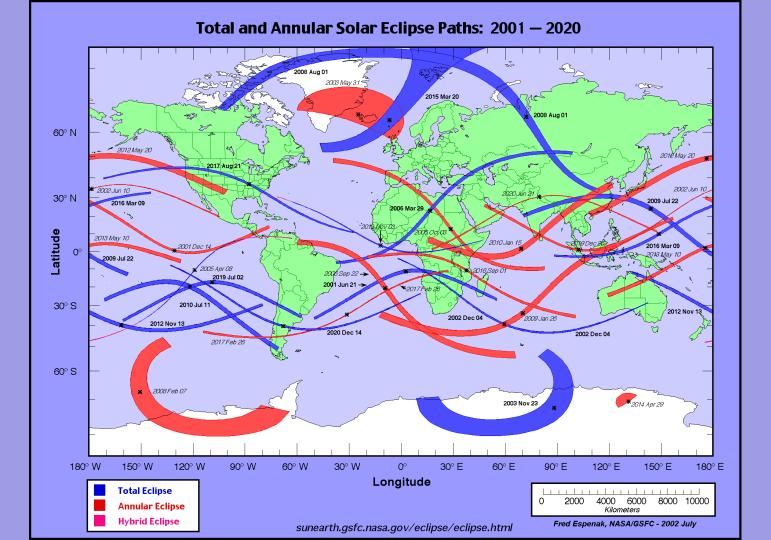
# Annular Solar Eclipses

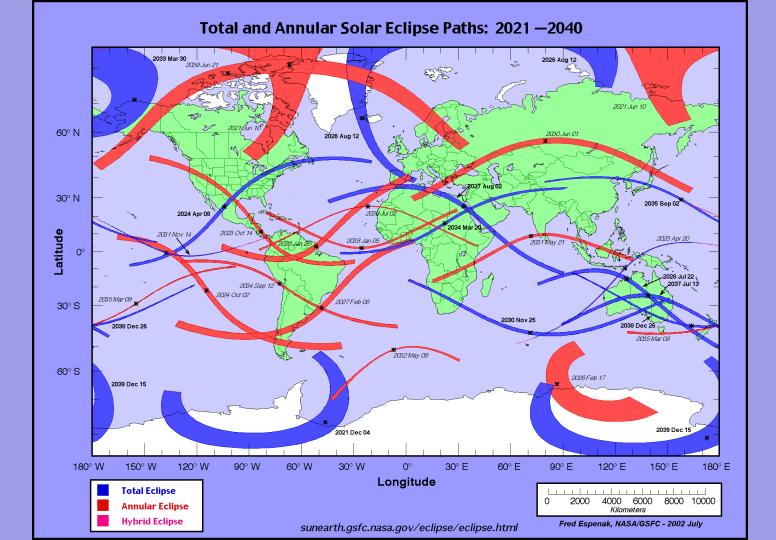
When Earth is near perihelion, and the moon is near apogee, we see an annular solar eclipse.

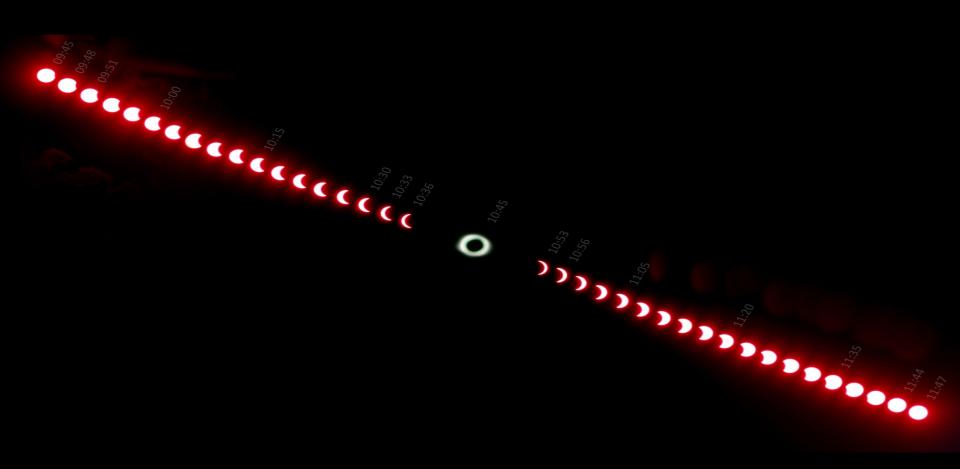




The angular sizes of the moon and the sun vary, depending on their distance from Earth.









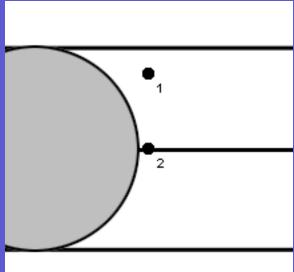


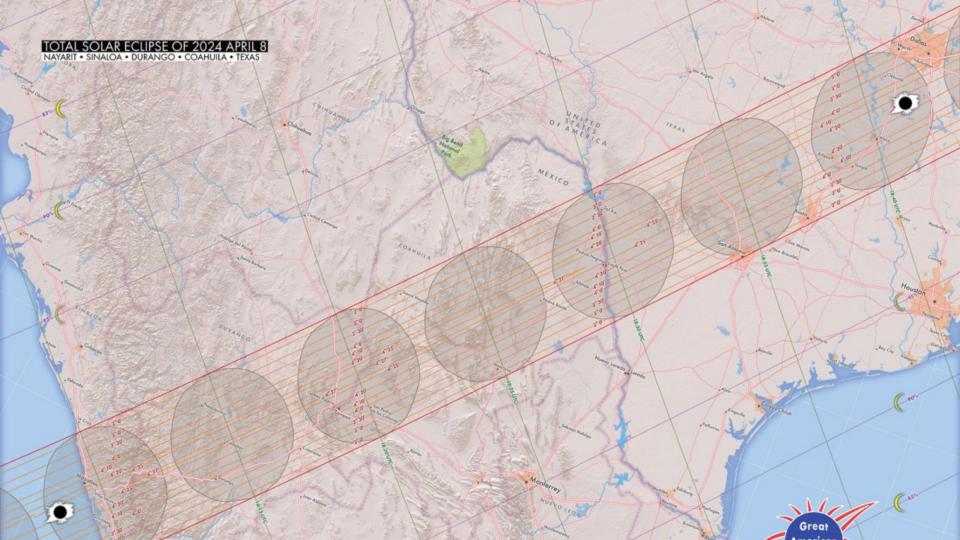


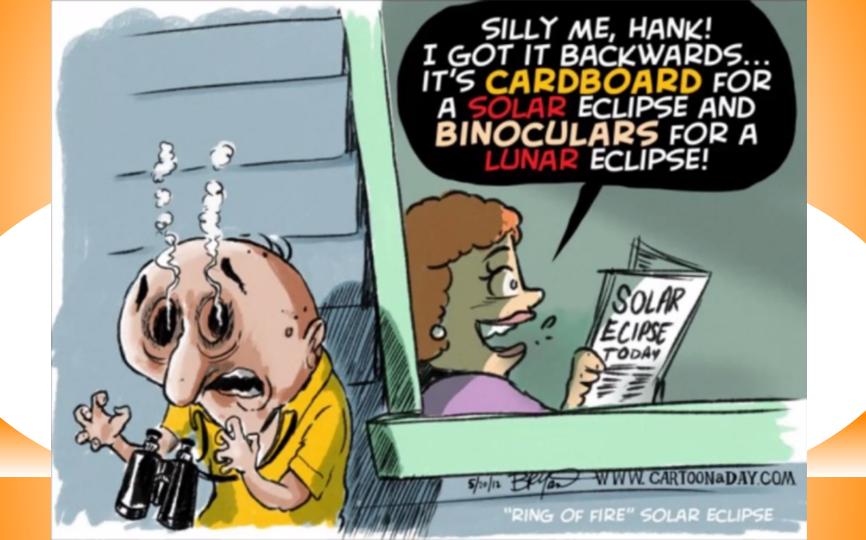








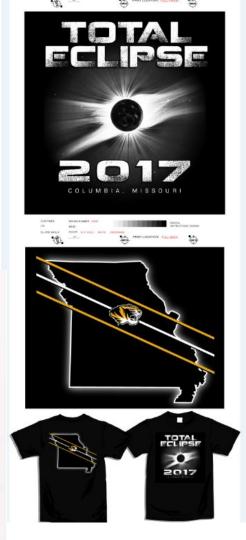




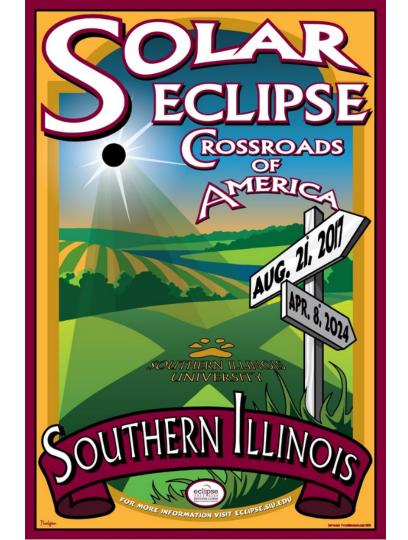












# Case Study: St Louis Eclipse Task Force

Year	Milestone
2014	<ul> <li>AAS ECLIPSE PLANNING WORKSHOP (August)</li> <li>First Task Force Meeting – Eight attended (October)</li> </ul>
2015	<ul> <li>Website launched (March)</li> <li>Eclipse Workshop - 60 attended (October)</li> </ul>
2016	<ul> <li>Outreach/Resource Center Launched</li> <li>First order of eclipse glasses – 5,000 (April Debut at Airshow)</li> </ul>
2017	<ul> <li>Inexpensive Eclipse Activities by Adler – 100 attended (January)</li> <li>Eclipse Expo – 5,000 attended (June)</li> <li>FREE Eclipse Glasses to Schools – 163,000 glasses (June – July)</li> <li>TOTAL SOLAR ECLIPSE (August 21)</li> <li>Last Task Force Meeting (September)</li> </ul>
	AWB Eclipse Glasses Recycle Program - 35,000 glasses (September)

#### Task Force Final Results

#### Final Task Force Tally:

- 160 organizations
- 300 people

#### **Eclipse Glasses:**

- 500,000 through discount program
- 160,000 FREE to schools

#### **Education:**

- Workshops/Expo
- Hundreds of programs

Media: Good coverage

- 44 government (includes cities, parks, SEMA, county emergency management, law enforcement)
- 33 businesses/associations
- 33 school districts
- 25 library systems
- 11 university/colleges
- 4 media organizations
- 4 astronomy clubs

#### Self-Evaluation

#### Did well:

- ✓ Started early, persistent
- ✓ Focused, limited goals
- ✓ Large, cross-sectional team
- ✓ Significant outreach
- ✓ Workshops, "Expo"
- ✓ Solar glasses, viewing tools
- ✓ Web resource center
- ✓ Media coverage

#### Not so well:

- ✓ Lousy job of using social media
- ✓ Website overwhelmed in final weeks
- ✓ Task force communication system caused complaints
- ✓ Mixed bag with schools
- ✓ Lack of corporate support



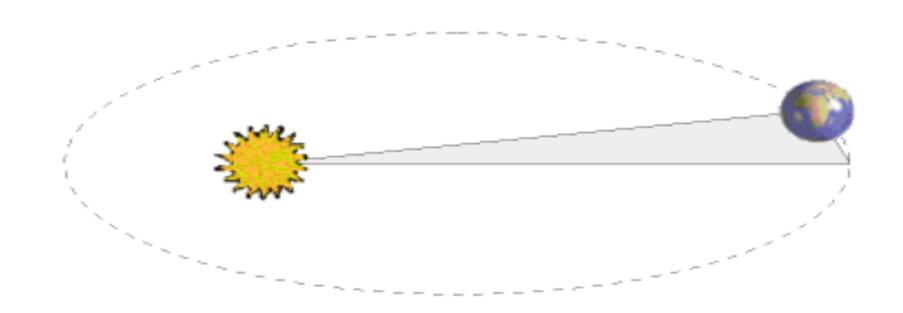
#### AMERICAN ASTRONOMICAL SOCIETY

National Science Foundation



### https://eclipse.aas.org/





#### HOW TO READ AN ECLIPSE MAP OF THE APRIL 8, 2024 TOTAL SOLAR ECLIPSE

