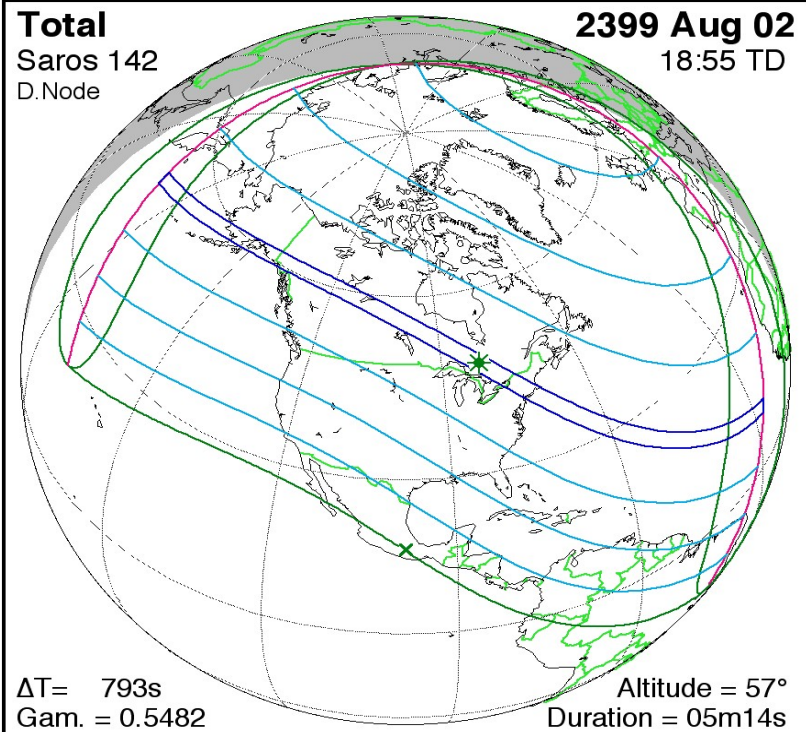


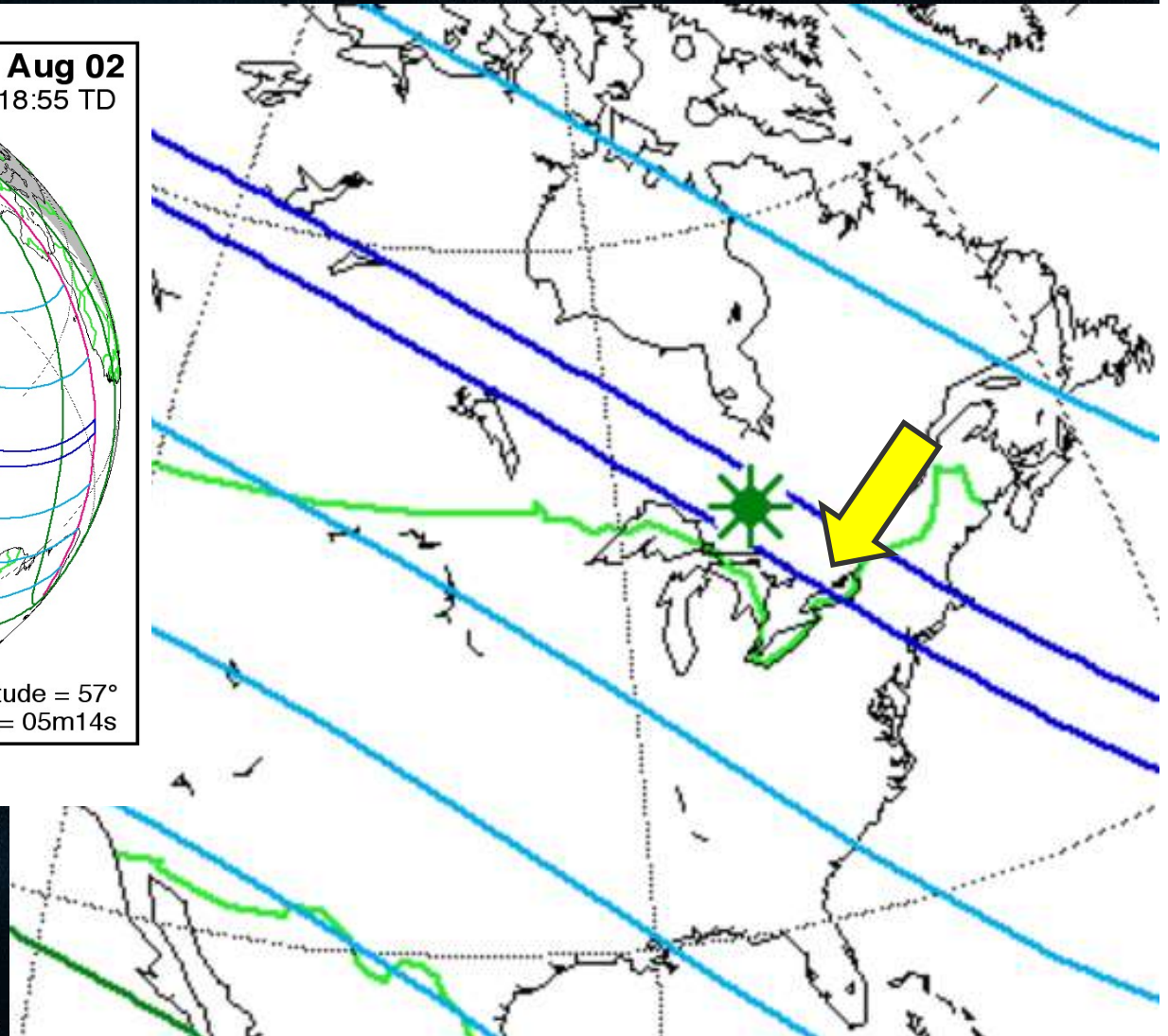
# Big deal or not?

The next total solar eclipse will pass through our region in 2399  
– 375 years from now

[www.EclipseWise.com/eclipse.html](http://www.EclipseWise.com/eclipse.html)

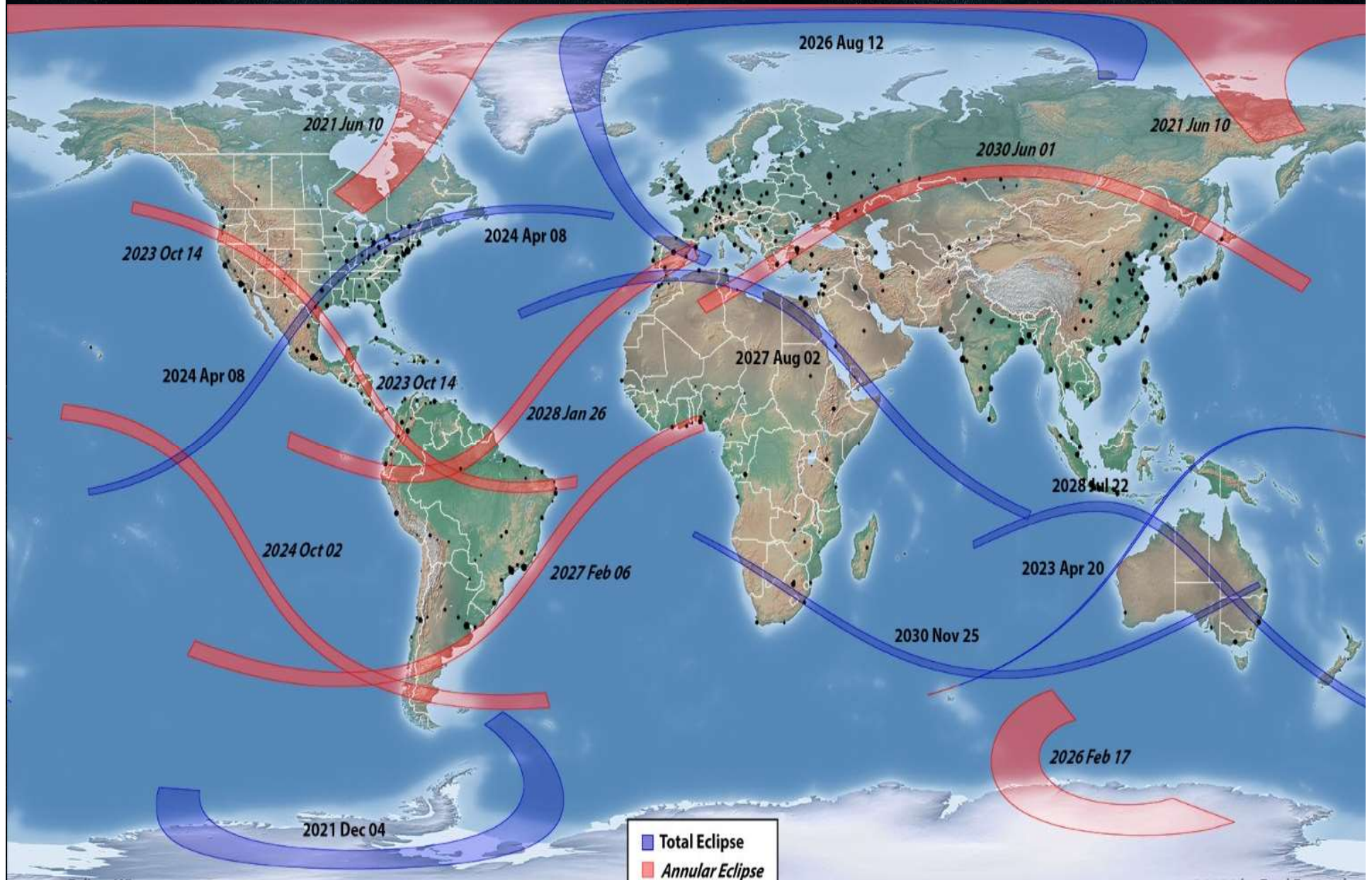


*Thousand Year Canon of Solar Eclipses*  
©2014 by Fred Espenak





# All solar eclipses between 2020 and 2030



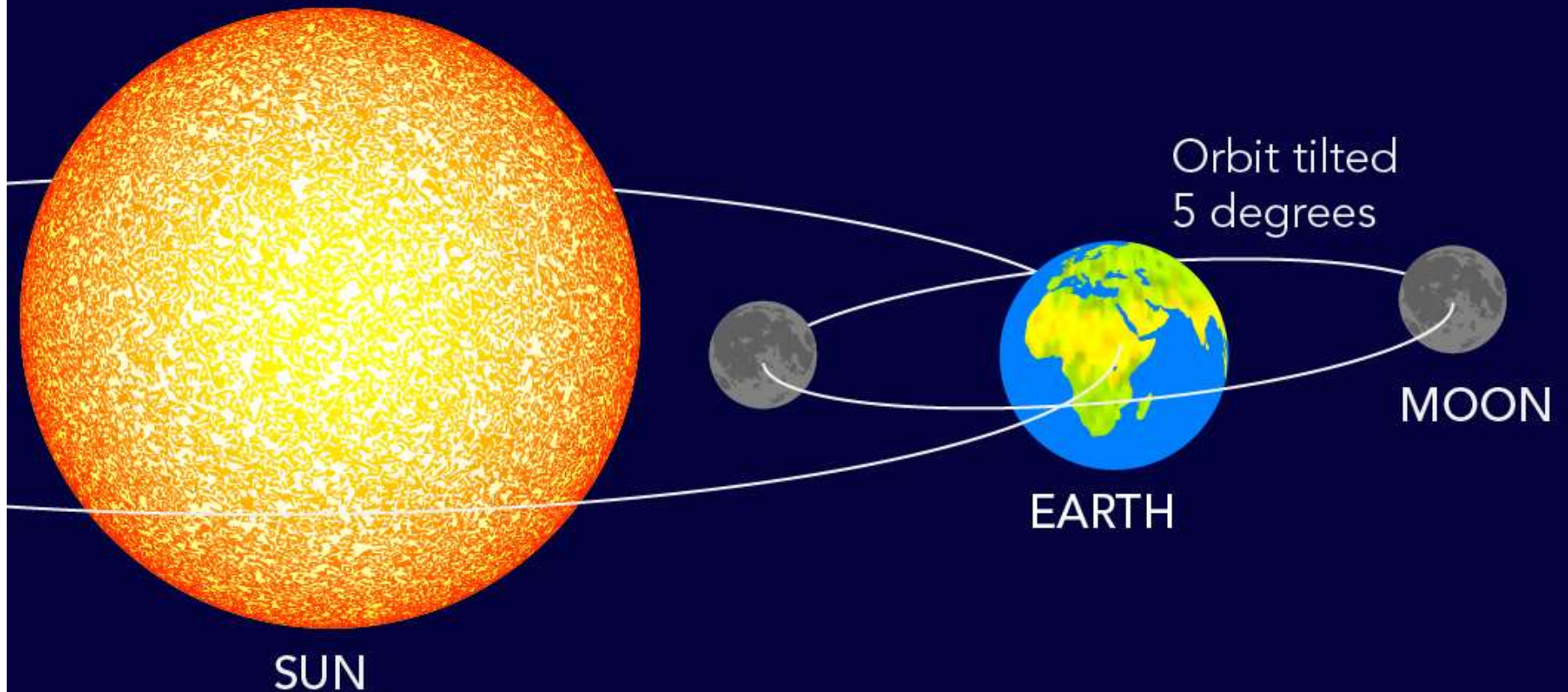




OK – big deal

So why don't we get an eclipse every month?

The **Earth's** orbit around the **Sun** and the **Moon's** orbit around the **Earth** are not aligned!  
The moon's orbit is tilted.



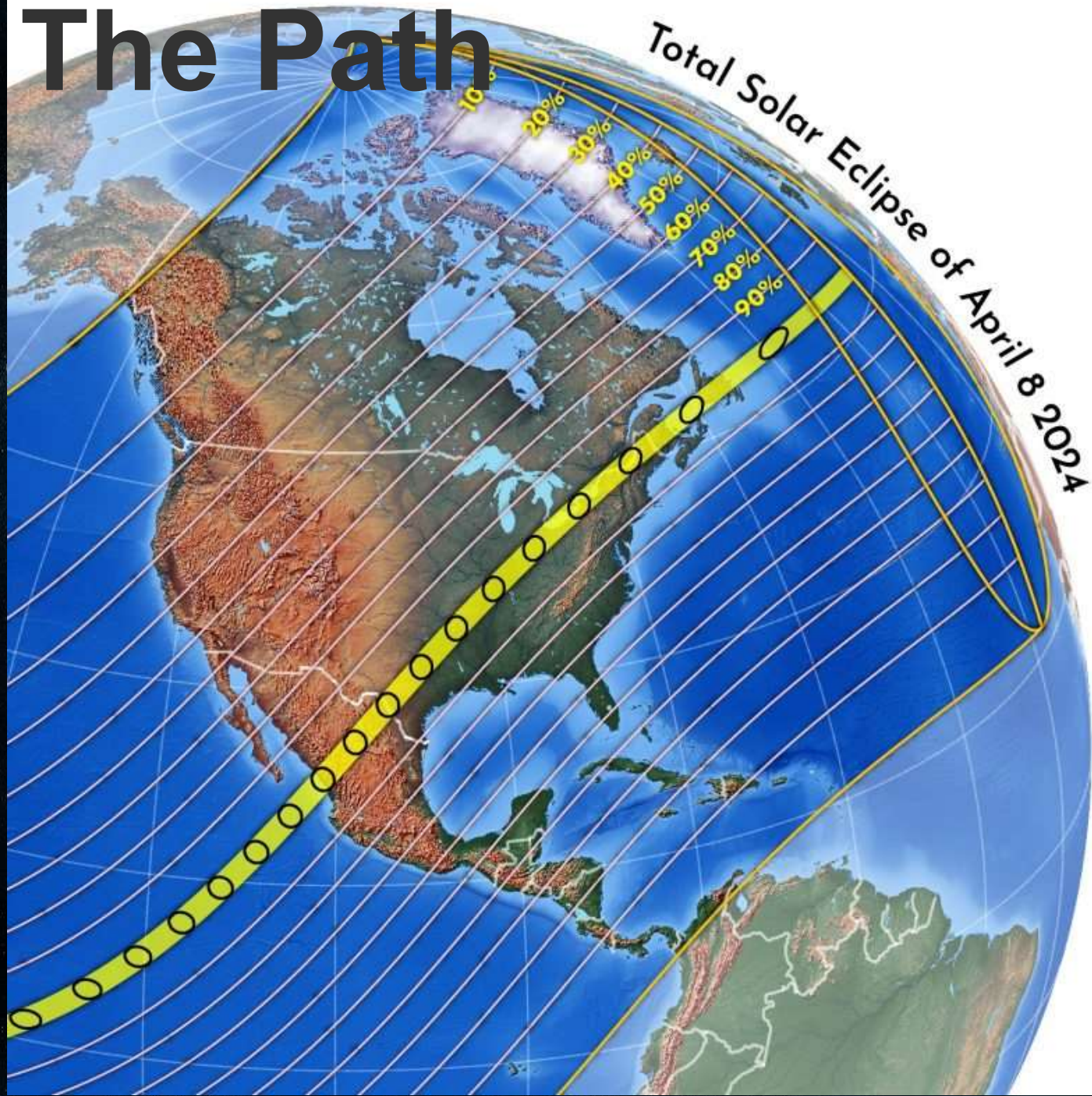


# Why don't we have a solar eclipse every month?



not to scale

# The Path





# Total solar eclipse of April 8, 2024

Northern limit of total eclipse

Central line of total eclipse

Southern limit of total eclipse







# What to look for approaching and during totality

Things get darker





# What to look for approaching and during totality

Things get darker

Shadows get sharper





# What to look for approaching and during totality

Things get darker

Shadows get sharper

The moon's shadow approaches





# What to look for approaching and during totality

Things get darker

Shadows get sharper

The moon's shadow approaches

Diamond Ring and Bailey's Beads



# What to look for approaching and during totality

Things get darker

Shadows get sharper

The moon's shadow approaches

Diamond Ring and Bailey's Beads

Corona & Prominences visible

- especially this year as we approach the peak of the sun's 11 year cycle

