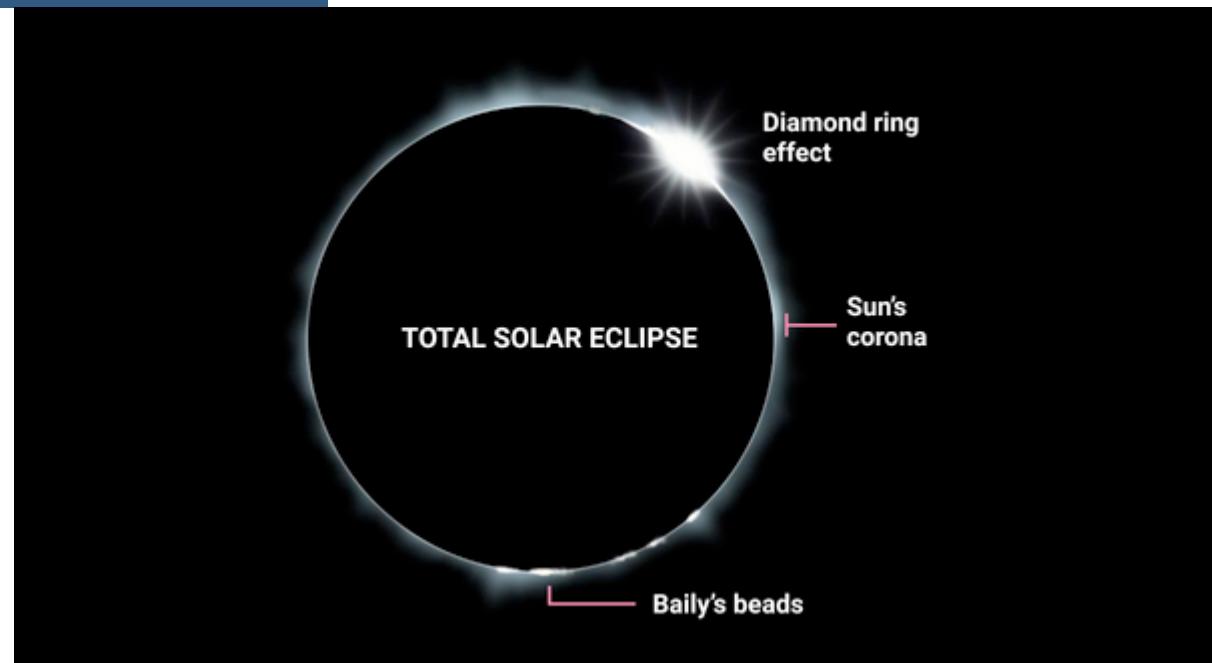


new moon  
lunar node: where orbital planes meet  
sun, Earth, and moon line up  
moon is near perigee (close)

path of totality = moon  
100% covers the sun  
diamond ring = corona + a  
bit of sun  
corona = rays  
Baily's beads = sun lighting  
up moon features





total solar eclipse



meteor shower



lunar eclipse



comet



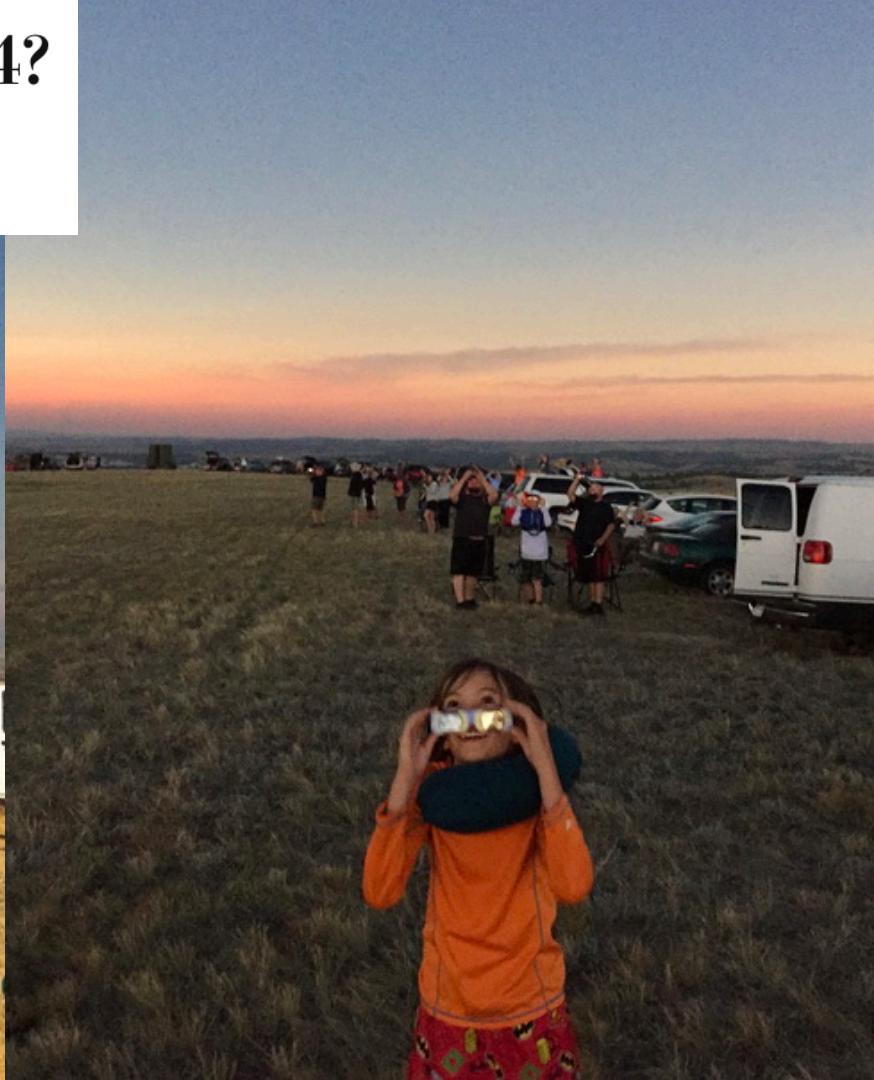
partial eclipse

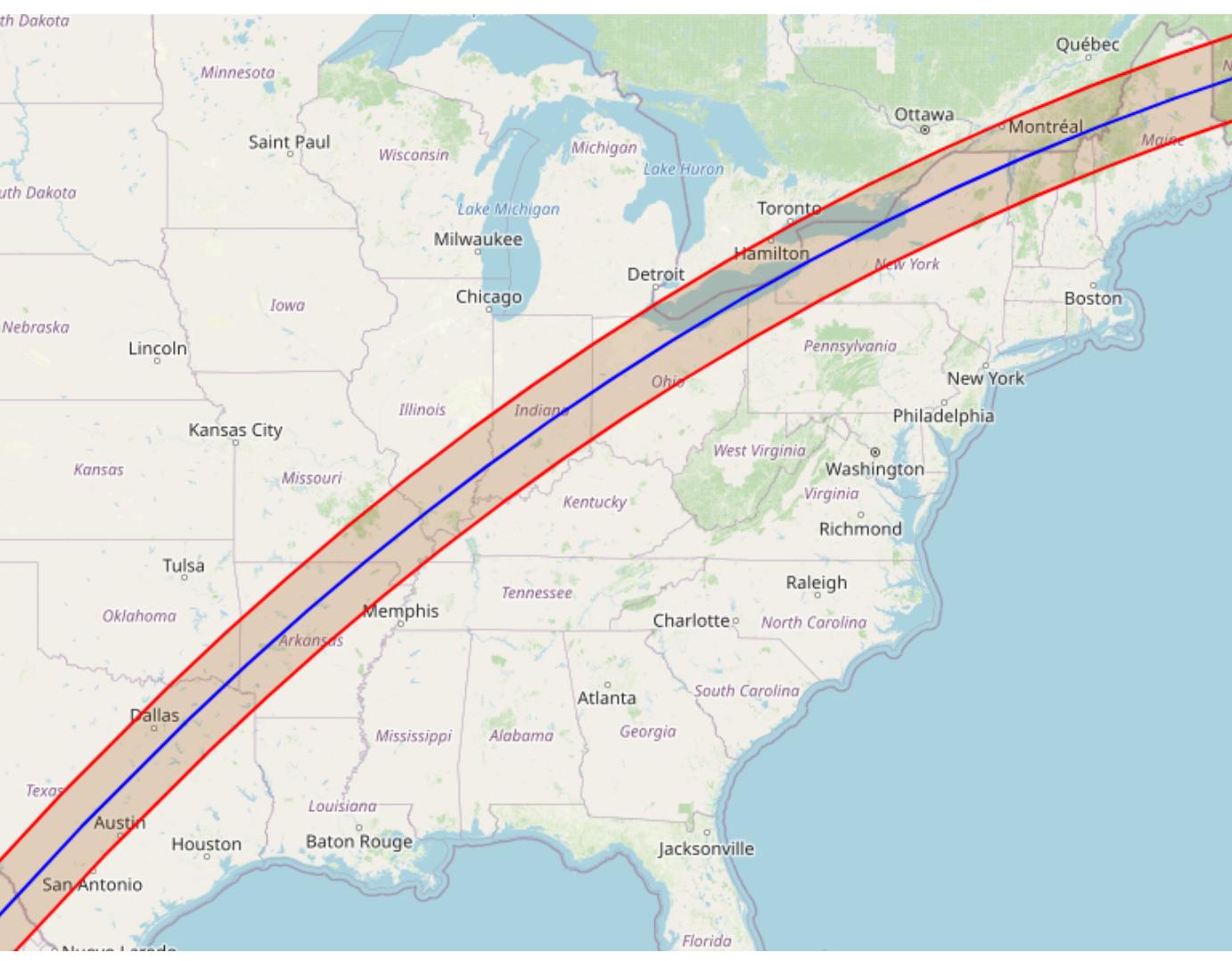


sunrise/sunset

# Want to see the total eclipse in 2024? Better make your plans now.

Cities with high visibility, such as Dallas, Cleveland and Buffalo, are already vying for visitors





**April 8, 2024**  
**1:30pm south TX**  
**3:30pm NY/VT**

Must be inside the path of totality!

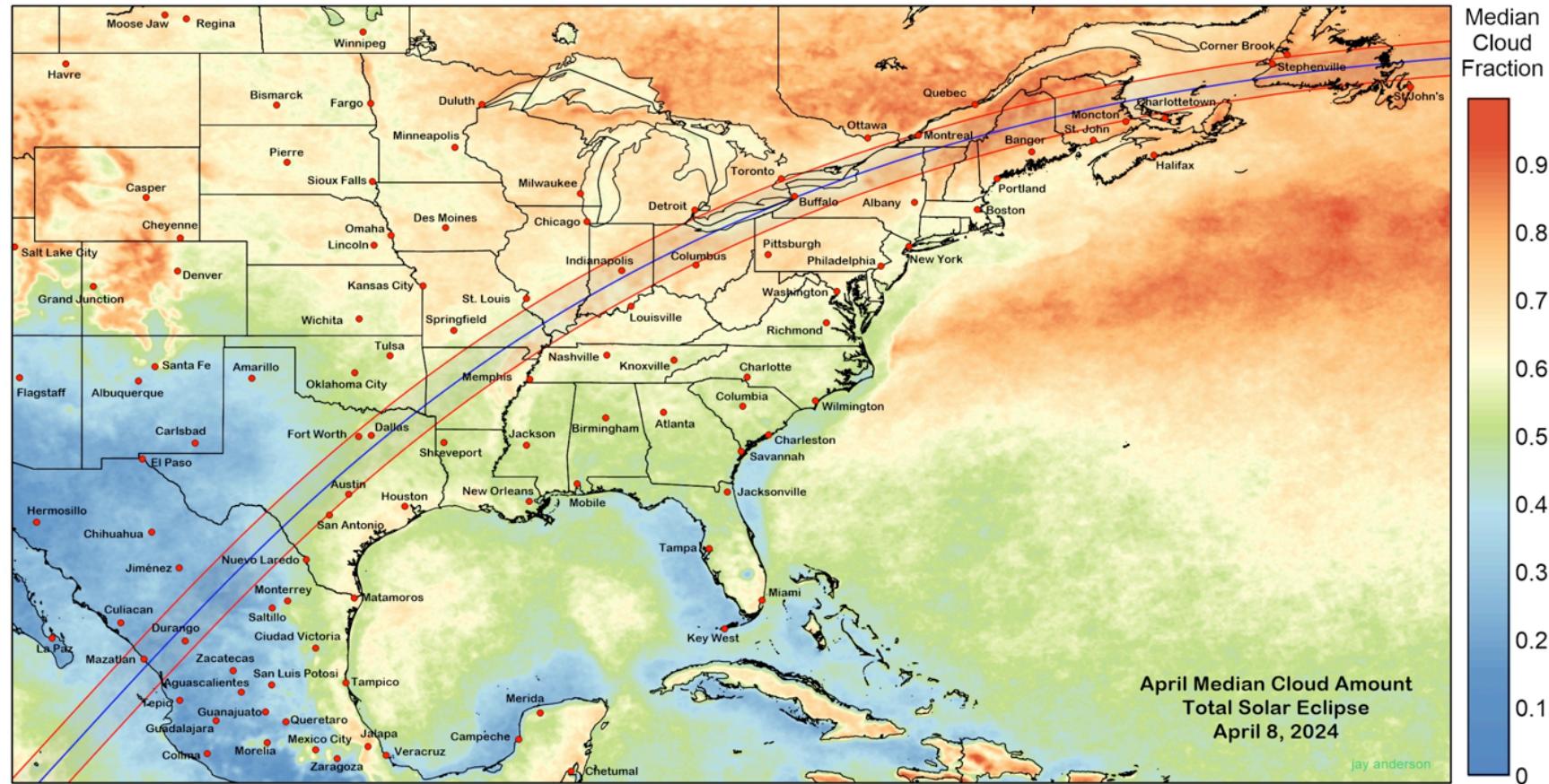
Closer to the center = longer totality time

Interactive map

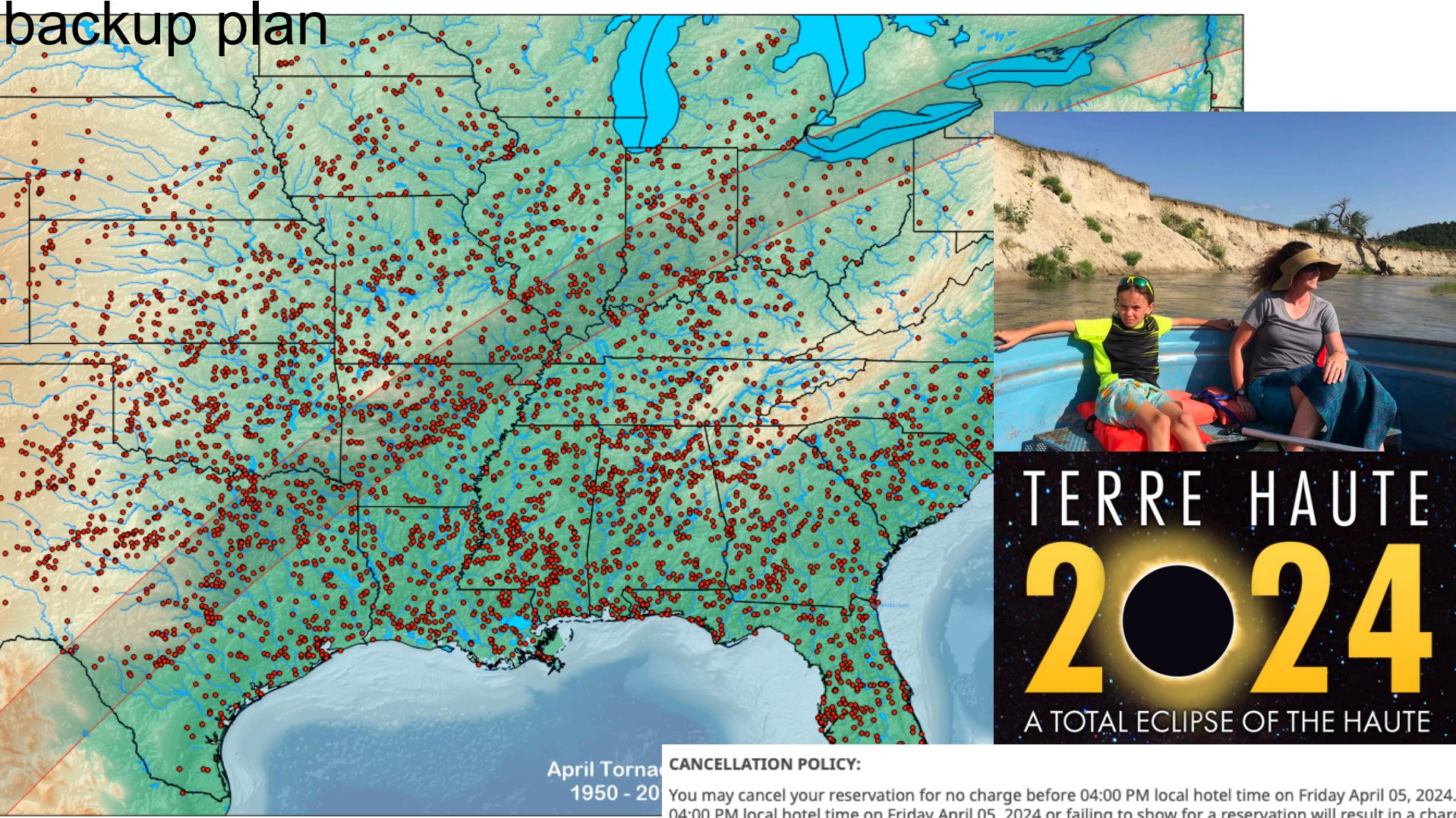
<https://eclipse2024.org>

# Average April cloud cover 2000-2020, 1:30pm

<https://eclipsophile.com/2024tse/>



backup plan



# mobility is key

Hillsboro  
Duck Cove Marina and RV Pa...

103 mi, 1 hour, 30 minutes

Driving

A Best Western Medical Center...

B Junction

Add Destination

163 mi, 2 hours, 36 minutes

Driving

A Best Western Medical Center...

B Heart of Texas Wildlife Trail

Add Destination

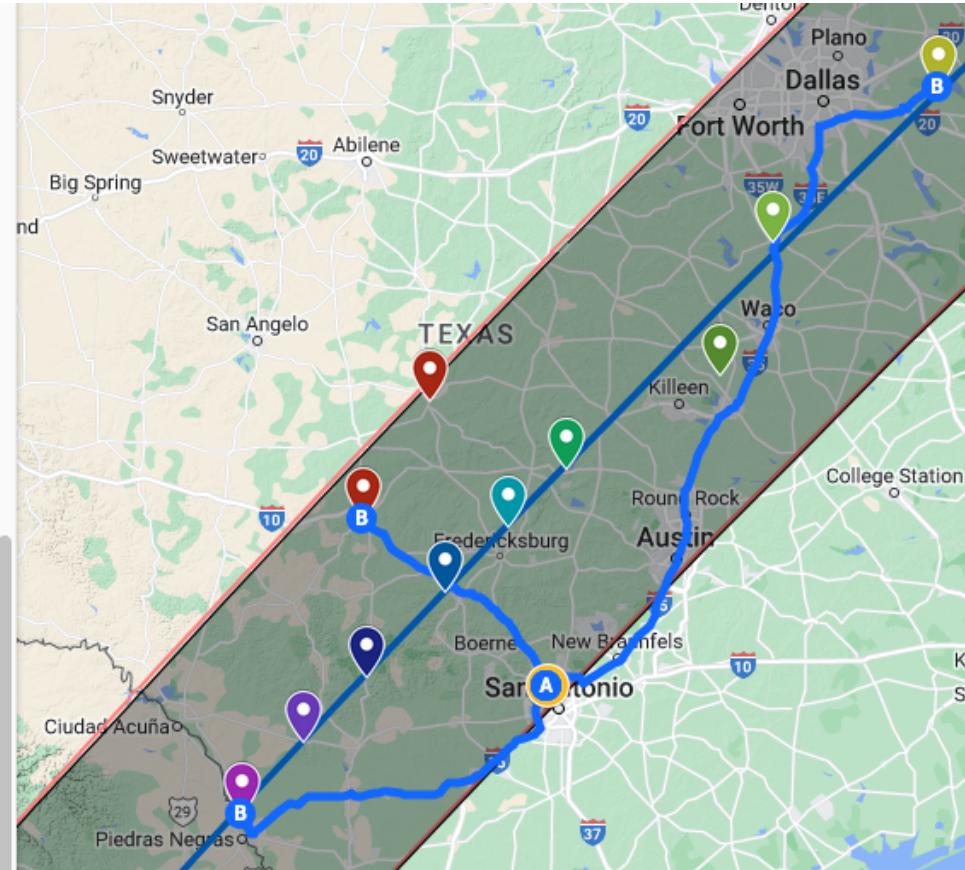
319 mi, 4 hours, 51 minutes

Driving

A Best Western Medical Center...

B Duck Cove Marina and RV Pa...

Add Destination



best climatological prospects:  
**Junction and Brady TX**

N side of the track in TX notably sunnier April climate than S  
decide start point & max drive  
identify multiple options  
create list of cities for last-minute weather

# Advance prep

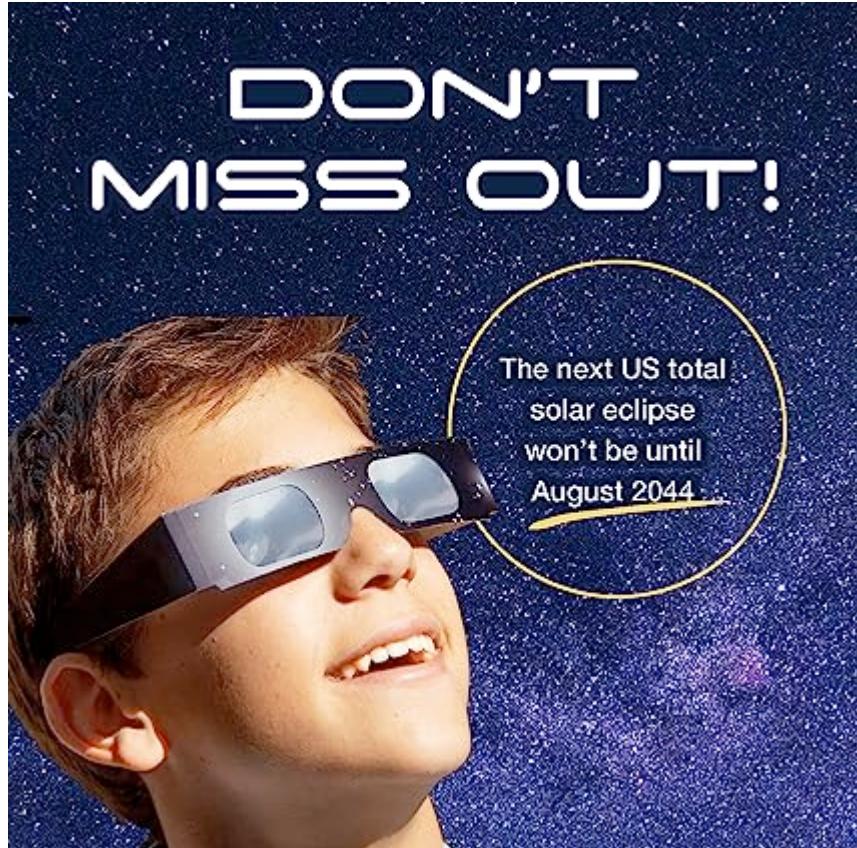
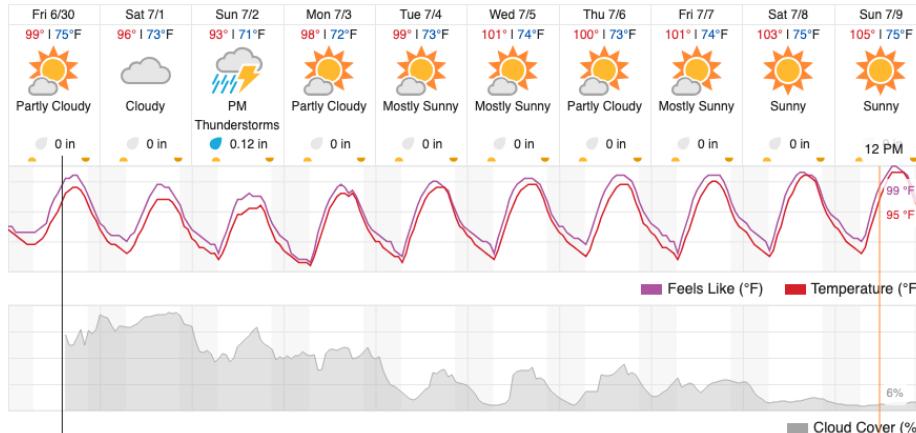
glasses may sell out

hotel reservation

weather with cloud cover ([Weather Underground](#))

offline maps

Sunday in a rural small town



# day of

check the weather

picnic prep: blanket, chairs,  
water, sunscreen, snacks

allow time for crowds

pick a spot

don't miss it trying to take  
pictures



# Utility-scale solar photovoltaic generators and path of August 21 solar eclipse

eia

