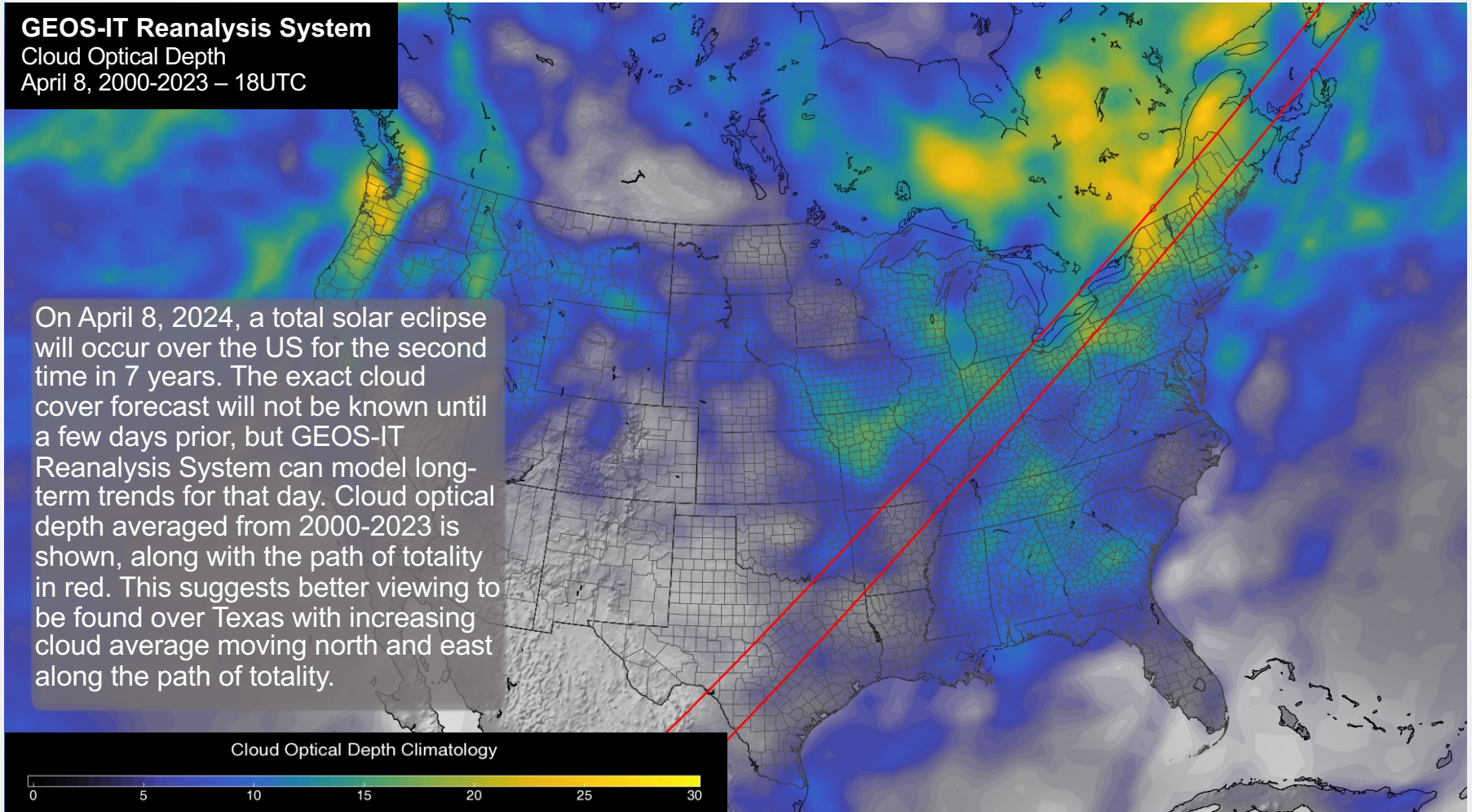


# April 2024 Solar Eclipse – Clear or Cloudy Skies?



**GEOS-IT Reanalysis System**  
Cloud Optical Depth  
April 8, 2000-2023 – 18UTC

On April 8, 2024, a total solar eclipse will occur over the US for the second time in 7 years. The exact cloud cover forecast will not be known until a few days prior, but GEOS-IT Reanalysis System can model long-term trends for that day. Cloud optical depth averaged from 2000-2023 is shown, along with the path of totality in red. This suggests better viewing to be found over Texas with increasing cloud average moving north and east along the path of totality.



Cloud Optical Depth Climatology

