

Total solar eclipse across North America: April 8, 2024

Context: happens somewhere in the world every 16 months (on average)

- First total solar eclipse worldwide since April 20, 2023 (Australia, East Timor, Indonesia)
- Last one until August 12, 2026 (Greenland, Iceland, Spain—plus a tiny bit of Russia & Portugal)

Path of totality: about 200 km (120 miles) wide, 15,000 km (9000 miles) long

- A narrow corridor where the Moon covers the Sun completely (totality)
- Begins at sunrise in the South Pacific; ends at sunset in the North Atlantic
 - Time from start of totality in Pacific to end in Atlantic: 3 hours, 17 minutes
- Crosses three countries: Mexico, the United States, Canada
 - Time from start of totality in mainland Mexico to end in Canada: 1 hour, 39 minutes
- Longest totality worldwide: 4 minutes, 29 seconds near the town of Nazas in Mexico
- Approximately 44 million people live along the path of totality

Partial eclipse: almost all of North America

- Outside the path of totality, the Moon covers some, but not all, of the Sun (partial eclipse)
- Almost all of North America—with the exception of most of Alaska—will have a partial eclipse
- The western edge of Europe will have a tiny partial eclipse around sunset
- Approximately 650 million people live in areas that will have a partial eclipse

Maps, animations, detailed info for any location

- www.timeanddate.com/eclipse/solar/2024-april-8

Key timings: North American mainland

- Start of totality (Mazatlán, Mexico)
 - 11:07 MST (local time) / 18:07 UTC
- End of totality (Little Catalina, Canada)
 - 17:16 NDT (local time) / 19:46 UTC

Mexico: from Sinaloa to Coahuila

- Largest cities on path of totality: Mazatlán, Durango, Torreón
- Next total solar eclipse in Mexico: March 30, 2052

United States: from Texas to Maine

- Largest cities on path of totality: San Antonio, Austin, Forth Worth, Dallas, Indianapolis
- Next total solar eclipses in United States:
 - March 30, 2033—Alaska
 - August 22, 2044—Montana, North Dakota, South Dakota
 - August 12, 2045—from California to Florida

Canada: from Ontario to Newfoundland and Labrador

- Largest cities on path of totality: Hamilton, Montreal, Sherbrooke
- Next total solar eclipse in Canada: August 22, 2044