

# Loma Prieta Earthquake

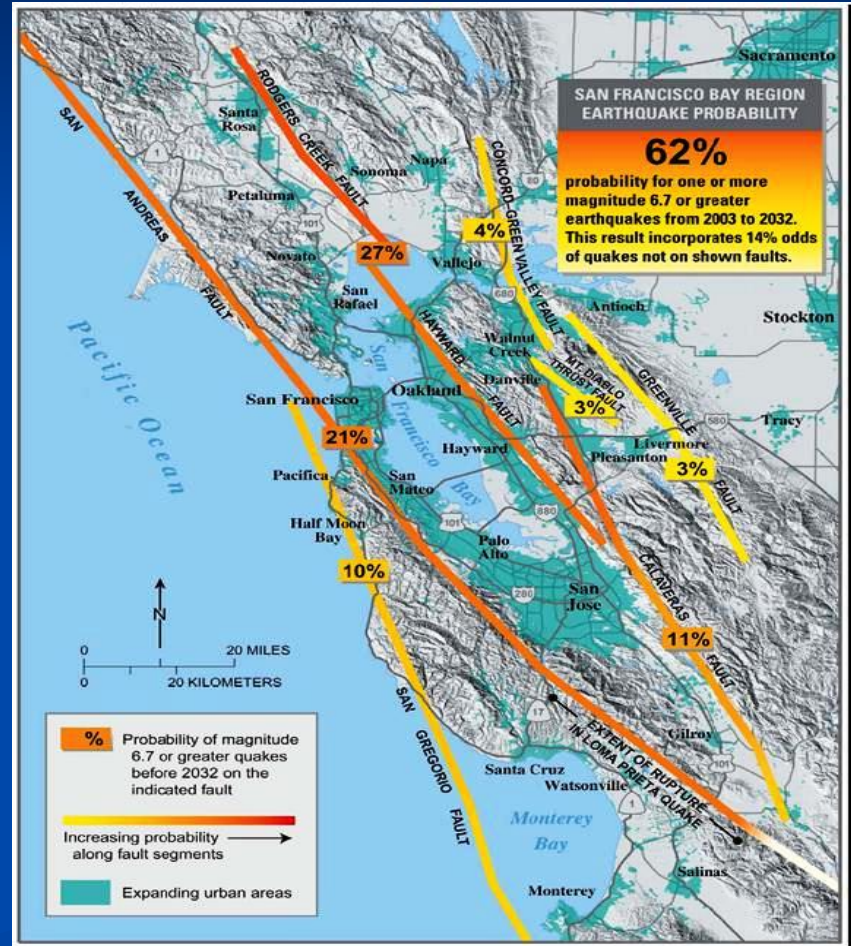


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# What The Cameras Saw

- <http://www.youtube.com/watch?v=FW-TkpVKP10>

# Tectonic Settings



# What Happened?

- Magnitude from 6.9 (moment) to 7.1 (surface-wave)
- Struck on October 17, 1989 at 5:04:15 pm.
- 63 deaths, 3700+ injuries.
- A.K.A. World Series Earthquake.
- Caused by a rupture in San Andreas Fault.

# Damage: Freeways



# Damage: Marina District

- 4 Buildings Destroyed by Fire
- 7 Collapsed Buildings, 63 determined unsafe
- Built on fill material and was subject to soil liquefaction



# Damage: Santa Cruz

- Pacific Garden Mall Severely Damaged (3 deaths)
- 31 Buildings Destroyed, including 7 listed on the historical building survey.
- Communications were severely limited, with cell phones being crucial for emergency workers.



# Lessons Learned

- Estimated \$6 Billion in damage at the time.
- Forced officials to rethink about transportation structures.

Examples: Embarcadero Freeway demolition, Restoration of Ferry Service in San Francisco





# Has Seattle Learned?

