



California Tsunami Preparedness, Mitigation & Response Program

Hazard Assessment & Understanding

- Inundation Modeling and Maps
- Evacuation Modeling and Maps
- Probabilistic Modeling and Maps
- Maritime Modeling and Maps

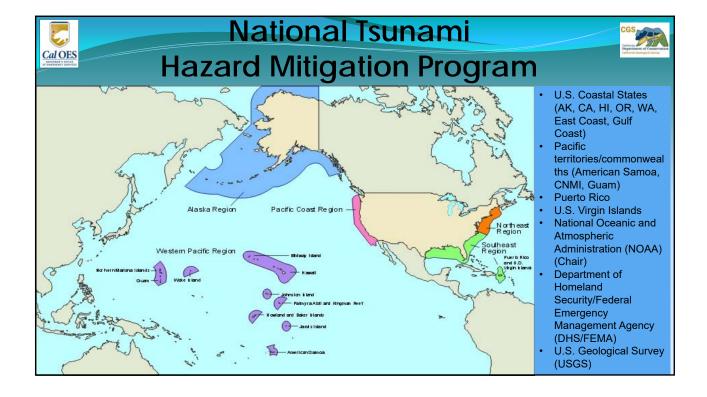
Preparedness, Mitigation & Recovery

- Evacuation Planning and "Playbooks"
- Maritime Education and Planning
- Tsunami Sign purchase and advice
- CA Tsunami Steering Committee
- Outreach Material provision
- Tsunami Preparedness Week
- Public Education
- Training and Exercise Support
- Live Code System Testing
- TsunamiReady[®] Program Support

Response

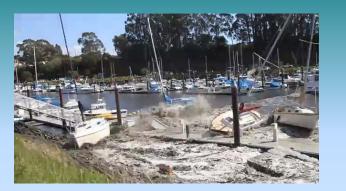
- 24/7 Duty Officer Program
- Real-Time / Post-Tsunami Field Teams
- Real-Time Observation Web-Camera Network
- Policy Analysis and Development





What is a Tsunami?

- A tsunami is a series of waves generated most often by an earthquake or coastal or undersea landslide.
- The entire California coastline is vulnerable to these events.
- Beaches, lagoons, bays, estuaries, tidal flats, and river mouths are some of the most dangerous places to be.

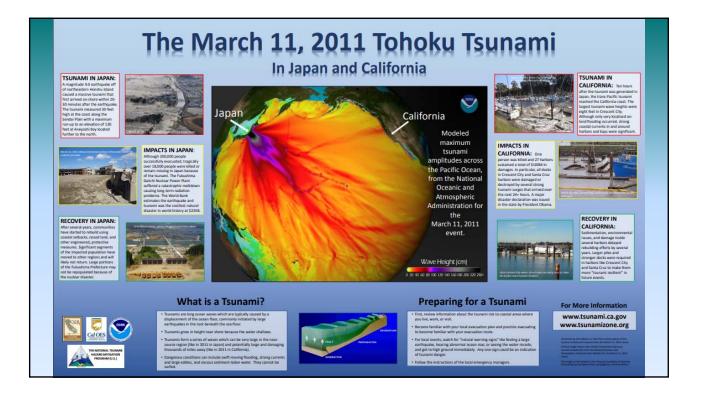


Tsunami facts....

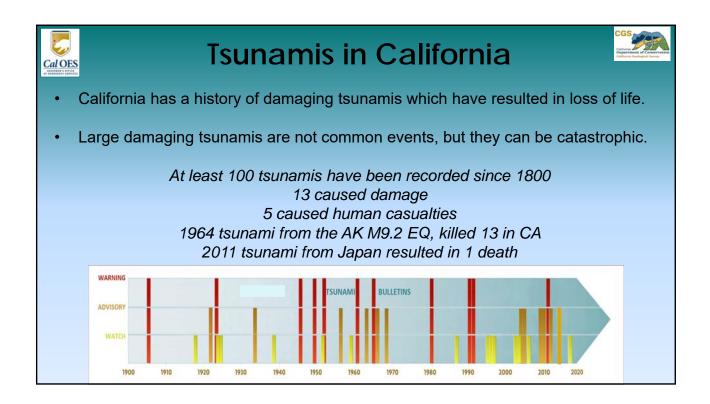
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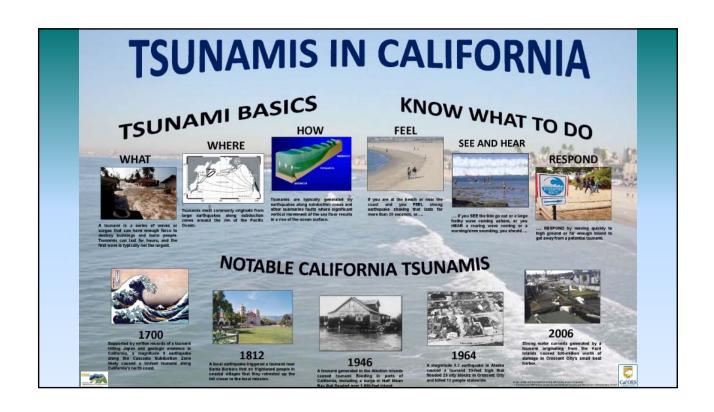
Cal OES

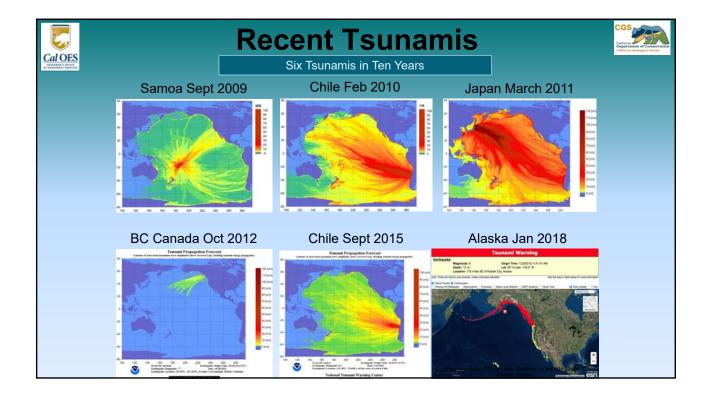
- A tsunami has many waves or surges
- The first wave is almost never the largest
- The danger period can last 24 hours or more! (like the March 2011 tsunami in Calif.)
- Cannot be Surfed No Face & Usually Debris-Filled











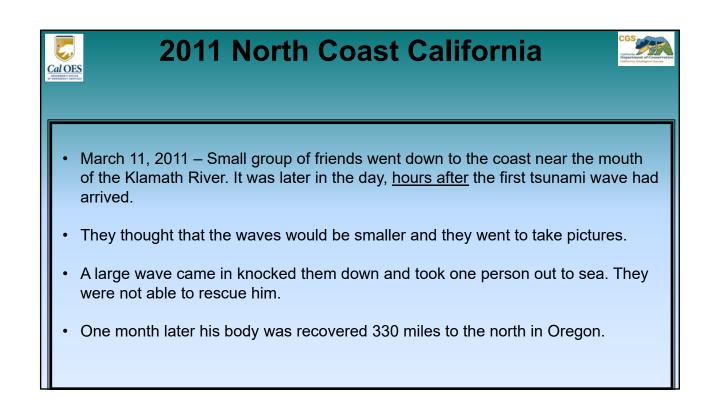
1964 Alaska Tsunami

• March 28, 1964

Cal OES

- 9.2 Mw Earthquake and Ensuing Tsunami
- 139 deaths and \$400 million in property loss
- Earthquake 15 deaths; Tsunami 124 deaths
- 106 in Alaska, **13 in California** and 5 in Oregon
 - Del Norte County = 12 deaths
 - Marin County = 1 death
- Damaged Harbors, Flooded Homes and Businesses

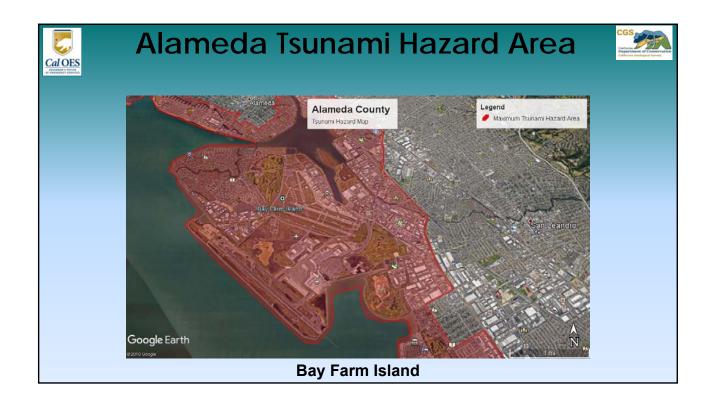


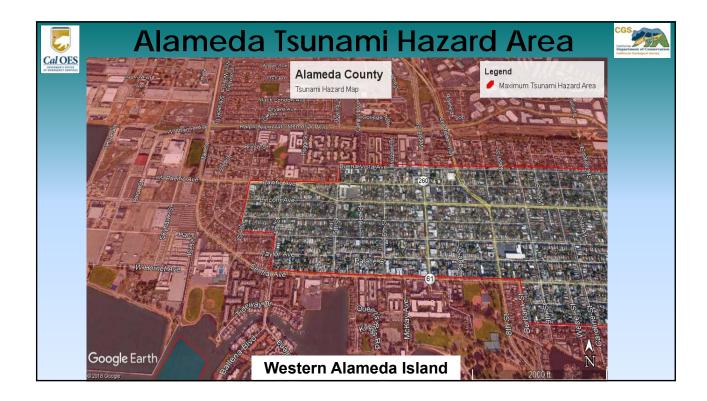


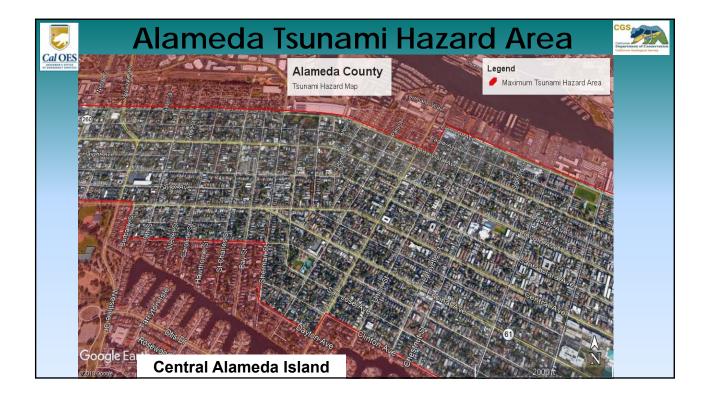










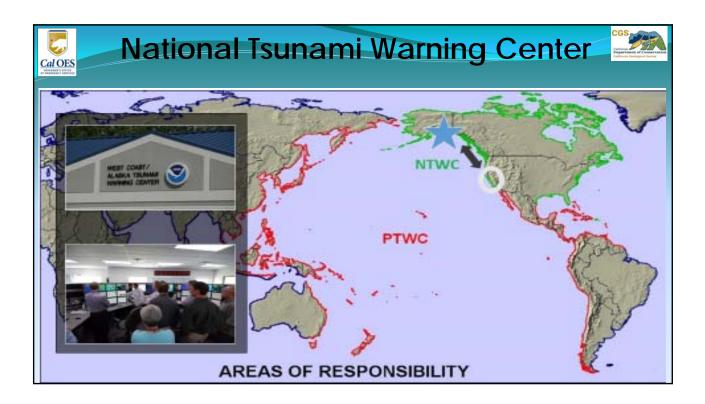


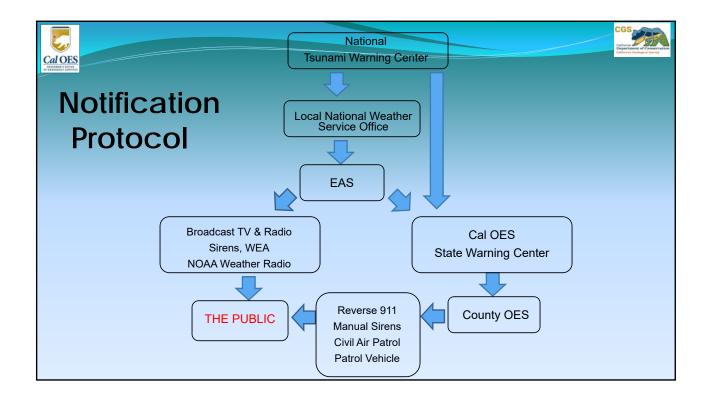












Official NOAA Alert Bulletins
Tsunami.ca.gov
<u>Tsunami WARNING</u> (>3 feet) Widespread inundation is imminent or occurring Full Evacuation Suggested, Move to Higher Ground
Tsunami ADVISORY (1 foot to 3 feet) Strong currents are imminent or occurring Move Away From Shore, Harbors, Marinas
Tsunami WATCH Potential Tsunami - May Impact Your Area Stay Alert For More Info, May be upgraded to Warning/Advisory

