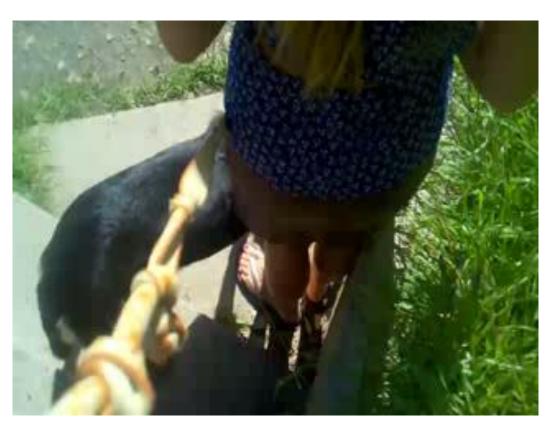
2011 Tohoku Tsunami in California

- Large tidal fluctuations =
 16 feet in Crescent City (largest surges at <u>low tide</u>)
- Strong currents/debris in harbors
- Potential dangerous tsunami conditions lasted for more than 24 hours.
- Impacts: one fatality;
 two dozen harbors damaged;
 Official = \$50M; Total ~\$100M



March 11, 2011 Tohoku Tsunami in California; video at 11AM (about 3 hours after first arrival of tsunami) within Santa Cruz Harbor

For More Information Search "CGS 2011 tsunami in California"

Maritime Tsunami Response Playbooks

Playbook Plan B

(based on M9 Cascadia Scenario)

Background Information:

Alert level = Advisory
Peak Amplitude =0.8 meters
Peak Velocity = 8 knots
Projected duration of strong currents (see location map below):

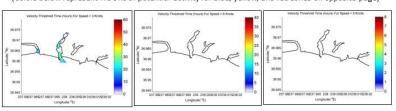
3 knots = 20 hrs; 6 knots = 5 hrs; 9 knots = 0 hrs

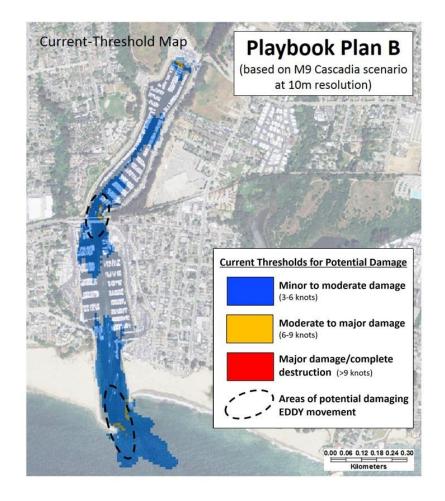
Specific Instructions:

- · Follow general guidance for Advisory-level tsunamis (Page 5)
- Strong currents and potential scour are expected in areas identified in blue on the map to the right. Consider relocating vessels located within 100 meters (300 feet) of these areas.
- · Specific areas where vessels should be relocated and docks secured:
 - (completed with maritime community input)

Safe areas for repositioning vessels within Santa Cruz Harbor:

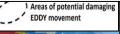
..... (completed with maritime community input)





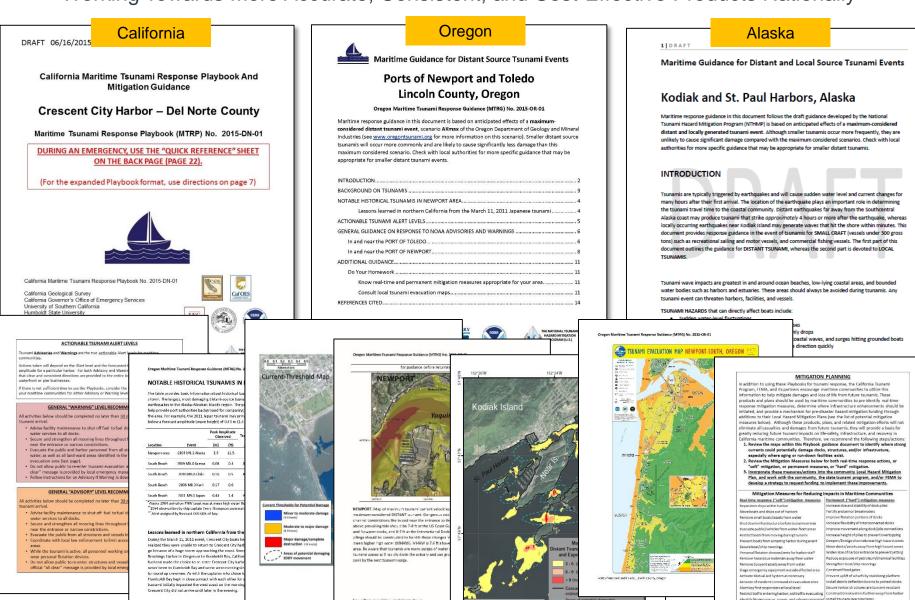
For Info Sea.... "CGS maritime Playbooks'

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Maritime Response and Mitigation Planning Products

Working Towards More Accurate, Consistent, and Cost-Effective Products Nationally



Ports of Newgort and Foleda, Lincoln Co. nly, Dieson

dentify boat owners/live-aboards; establish phone Identify equipment/assets (patrol/tug/fire boats,

cranes, etc.) to assist response activities

tree, or other notification process