

NTHMP/USCG Offshore Safety Guidance

And

NTHMP Maritime Tsunami Planning Guidance

2011 Tohoku Tsunami in California

- Large tidal fluctuations = 16 feet in Crescent City (largest surges at low tide)
- 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

2010



2011



Issues and Lessons Learned from Recent Real and Scenario Tsunamis

▪ **Evacuation Issues**

- Inconsistent response activities statewide
- What evacuation, if any, in a minor or moderate “Warning” alert at high/low tide?

▪ **Maritime Community Issues**

- If/When/Where to move or evacuate boats?
- Educate boat owners about tsunami hazards
- Long-term recovery issues
- What can be done to improve resiliency (mitigation and recovery)?

▪ **Land-Use and Recovery Planning**

- Japanese experience pre- and post-tsunami development and tsunami recovery
- Recovery issues in California in 2011



Boats sunk; recovery efforts in Crescent City Harbor after 2011 Japan tsunami

NTHMP Maritime Tsunami Planning Guidance



Status:

1. Previous maritime planning efforts in Hawaii and Puerto Rico helped set foundation.
2. New plans, specific to each harbors/ports, developed in California and Oregon provided examples for guidance to be developed.
3. **Purpose: Guidance to set example(s) but not dictate how maritime guidance is done but ensure they are as accurate, consistent, and cost-effective as possible.**
4. Guidance has three sections:
 - A. Hazard analysis, modeling, and mapping
 - B. Response, Preparedness, and Education
 - C. Mitigation and Recovery
5. MMS has advanced draft guidance for NTHMP partners to start developing similar products
 - A. MMS main focus was modeling, maps, and other products
 - B. Started to create “preparedness and response” guidance, including general guidance and harbor/port specific guidance
6. NTHMP/USCG Work Group has developed draft guidance for offshore safety.
7. Work is going on (ASCE, FEMA/California) to address mitigation and recovery which can be addressed later.

See

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For Overview

NTHMP Maritime Tsunami Planning Guidance



Remaining tasks:

1. MMS finalize their guidance on hazard analysis, modeling and mapping products – Fall 2015
2. NTHMP/USCG Work Group finalize guidance for offshore safety – Fall 2015
3. MES, MMS, and WCS work together on education, preparedness, and response guidance section

Questions:

1. Should guidance be separated into three documents?
2. Who can take the lead from here; should we develop a NTHMP work group?
3. Other questions?

Discussion period later today