

Tsunami Exercises

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Linkages to Strategic Plan

- **Goal 2.3: Exercises are effectively supported**
- Exercises enhance the efficiency and effectiveness of tsunami disaster management during a real event.
- **Strategy 2.3.1: Conduct exercises that include tsunami scenarios**
- Through exercises, NTHMP state partners will identify gaps and lessons learned that can help improve tsunami emergency response plans. Exercises range from drills to table-top, functional, and full-scale exercises. They can be conducted specifically for tsunamis, or tsunamis can be included in broader multihazard exercises. To support exercises, the Tsunami Warning Centers and state partners can prepare scenarios with associated timelines and messages and test communication systems. Exercises are an opportunity to enhance collaboration among federal, state, local, and nongovernmental organizations and leverage resources. They may also include community evacuation drills and be used to educate the public.

Cont.

- **Goal 2.4: Stakeholders are adequately engaged**
- Engagement of stakeholders at all levels is a critical element of tsunami education and preparedness.
- **Strategy 2.4.1: Engage stakeholders in tsunami preparedness and response**
- Staff from coastal businesses and the tourism and maritime industries are key partners in tsunami preparedness, mitigation, and response. **Active involvement of these and other stakeholders in exercises** and the delivery of tsunami outreach is essential to building a sense of community ownership and commitment to public safety. NTHMP partners will engage stakeholders at all levels to enhance all aspects of tsunami mitigation, preparedness, and response capabilities.

THEME 4: Alert, Warning and Response

- The NTHMP provides guidance to the NOAA-led U.S. Tsunami Warning System on Tsunami Warning Center domestic messages and helps assure the local delivery of these products. In this role, it supports local warning point reception and dissemination and provides for **coordination of U.S. Tsunami Warning System exercises and tests.**

Cont.

- **Strategy 4.3.1: Support and provide tools to enhance community-level response planning**
- To help ensure effective tsunami response, NTHMP partners will continue to support and provide tools to enhance community-level response planning. This will include training, **exercises**, and plan review for communities and harbors and will consider specific improvements to real-time response activities.

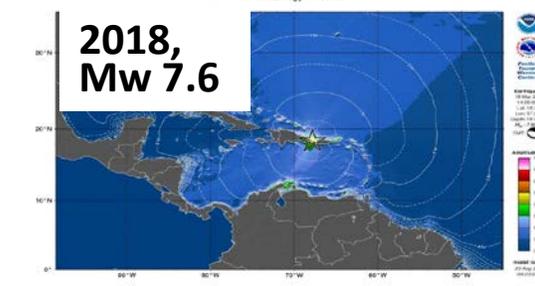
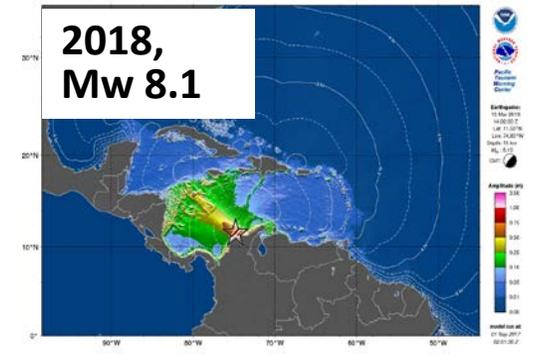
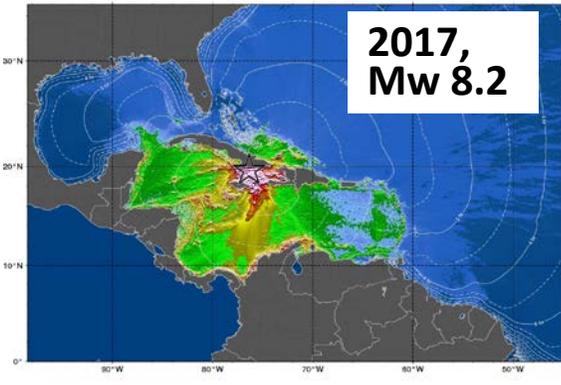
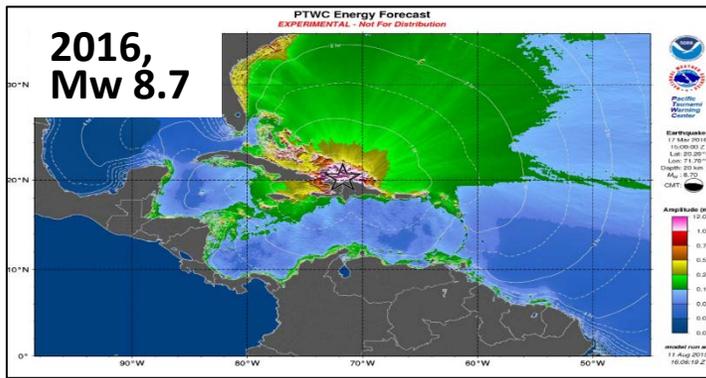
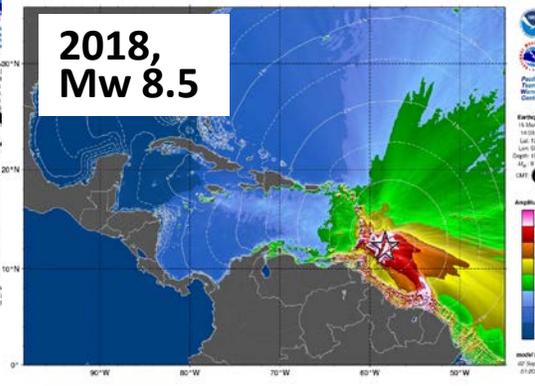
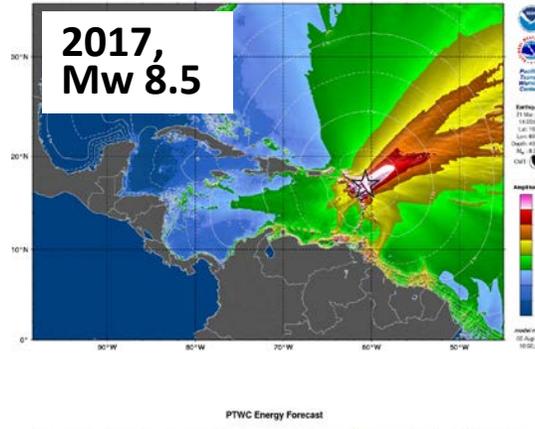
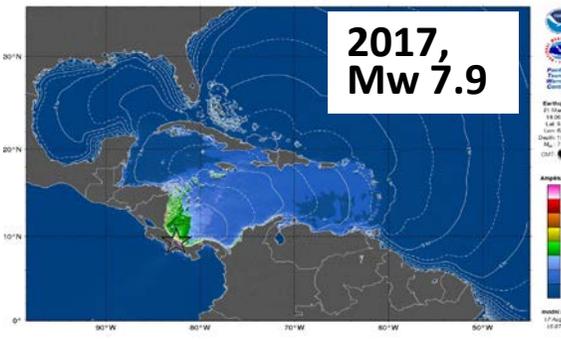
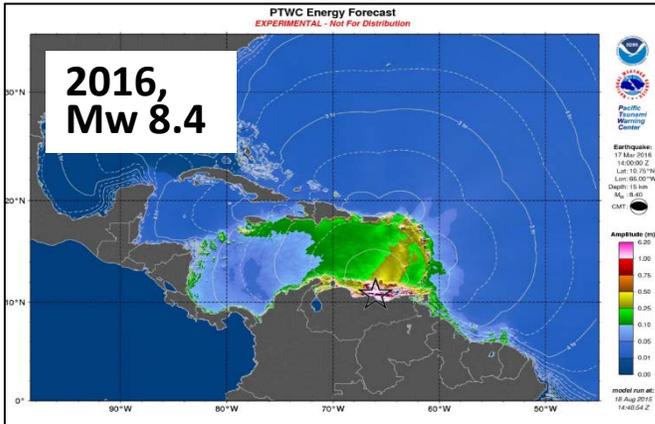
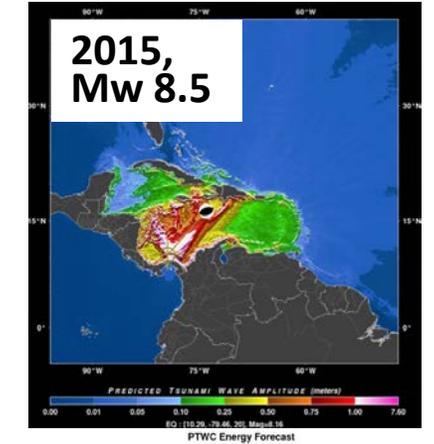
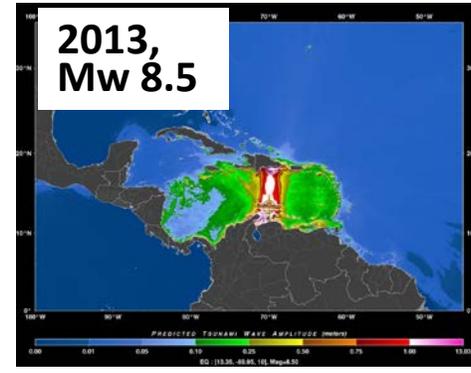
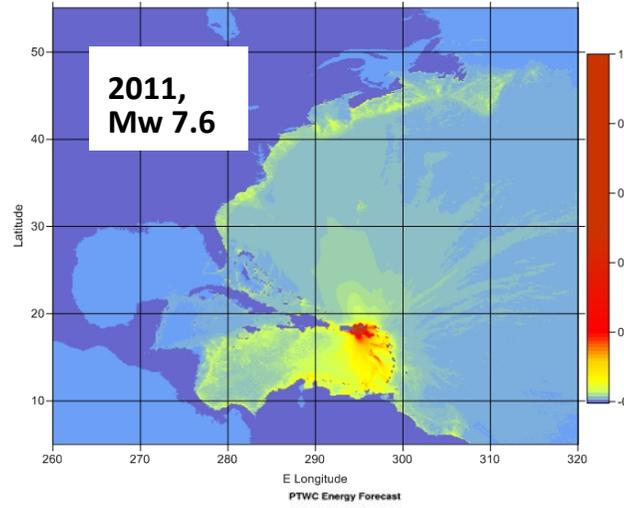
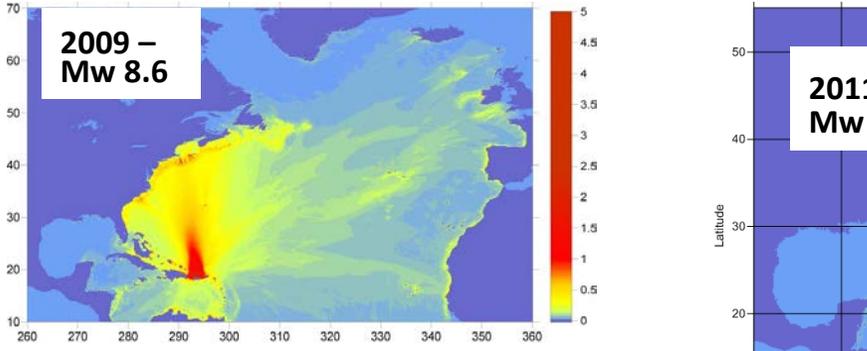
Exercises

- TWC facilitated tsunami exercises – CARIBE WAVE, PAC WAVE, LANTEX, PACIFEX
- Shake Out
- State/Local Exercise organized by NTHMP, supported by NTHMP
- Federal Exercises – SAFER, Cascadia Rising, Homeland Security

<https://tsunami.gov/?page=exercises>

<https://caribewave.info>

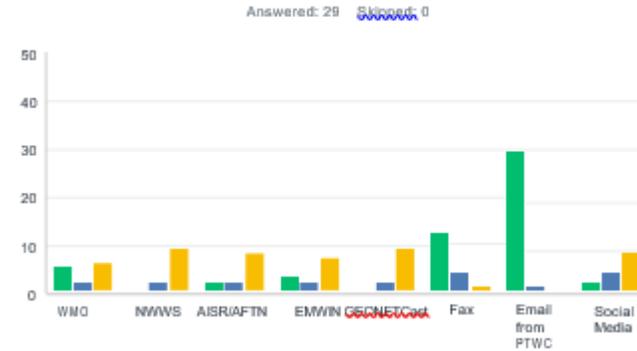
CARIBE WAVE Scenarios



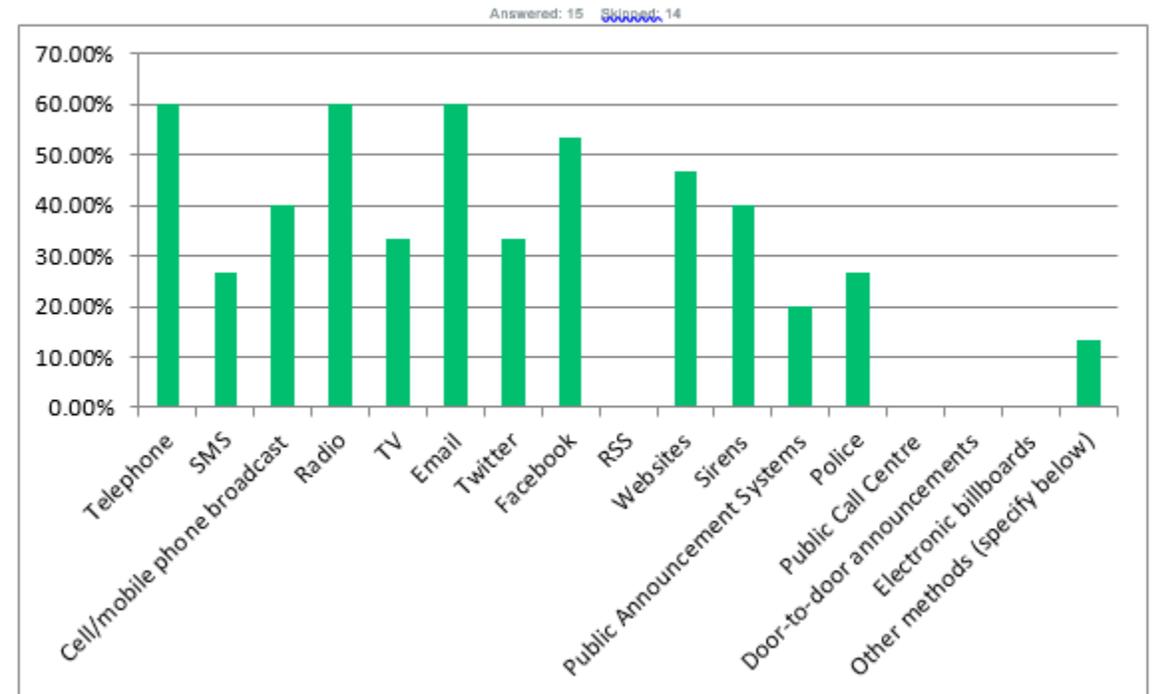
Evaluation

- CARIBE WAVE and PACWAVE use Survey Monkey, 66 questions
 - Reception of Products from TWC
 - Understanding of Products from TWC
 - Preparedness
 - Evacuation Mapping
 - Education and Outreach
 - SOPs
 - Dissemination of Messages within countries and territories

Q6 1B.2: The PTWC issued the CARIBE WAVE 18 initial Dummy Message by several methods. Please check all methods through which the message was received by the TWFP/NTWC.



Q45 3E.3: How was the warning/information communicated to the public? Please check all that apply:



Upcoming Exercises

- Exercise Pacific Wave 2018 (UNESCO IOC): 1 September to 30 November 2018
- Great Shakeout: 18 October 2018
- Exercise Caribe Wave (NTHMP and UNESCO IOC): 14 March 2019 (Earthquake and Volcano Scenarios)

Resources

IOC

Intergovernmental Oceanographic Commission
Manuals and Guides

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**How to Plan, Conduct
and Evaluate UNESCO/IOC
Tsunami Wave Exercises**

UNESCO

NTHMP - Oregon



Tsunami Evacuation Drill Guidebook

How to Plan a Community-Wide Tsunami Evacuation Drill



FEMA

Homeland Security Exercise and Evaluation Program (HSEEP)

April 2013



For Discussion

- Tracking exercises – eg. Tsunami Zone, Shake Out
- Exercise Evaluation instrument
- Time Lines for NTHMP Exercises
 - Establish Dates – how far in advance – LANTEX, PACIFEX (CARIBE WAVE already does 1 year in advance, thinking of doing two years)
 - Exercise Scenarios (CARIBE WAVE, PACIFEX, LANTEX), How far in advance needed (CARIBE WAVE does 3 years in advance)