

TsuInfo Alert



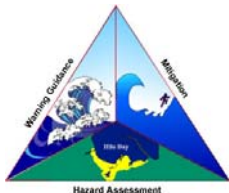
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2017: A Banner Year of NTHMP Accomplishments

By Rocky Lopes, NTHMP Administrator



In this issue:

2017: A Banner Year of NTHMP Accomplishment 1

New NTHMP Web Page Features Evacuation Signage 2

NTHMP Strategic Plan Completed 3

NTHMP Annual Report for 2017 4

Summary of the Mapping and Modeling Subcommittee Meeting 5

NTHMP Mitigation and Education Subcommittee Winter 2018 Meeting 6

NTHMP Upcoming Events 6

Completion of the *2018-2023 NTHMP Strategic Plan*¹ (see article on Page 3) is a true milestone achievement for the National Tsunami Hazard Mitigation Program (NTHMP) of which all NTHMP partners can all be justly proud.

The publication of the Strategic Plan culminates these major accomplishments in support of the NTHMP during 2017:

- Passage of the *Tsunami Warning, Education, and Research Act of 2017*² (TWERA) by Congress and having it become Public Law 115-25 effective April 18, 2017.
- Reviewing and incorporating TWERA throughout NTHMP documents by the work of three subcommittees and two task-related Work Groups in a seamless yet integrated manner.
- Conducting and publishing the 2017 NTHMP External Review³ in June.
- Conducting the largest-attended NTHMP Annual Meetings Week in Portland (Jan/Feb 2017), and highly productive technical meetings of the Mitigation & Education and Mapping & Modeling Subcommittees in Salt Lake City (late July 2017).
- Updating the *NOAA/NWS Grants Allowable Activities* chart and publishing it in September and incorporation in the *FY18 NOAA/NWS Tsunami Activities Grant Guidance*.
- Updating all NTHMP governing documents (*NTHMP Rules of Procedure*⁴ and each of three subcommittee's Terms of Reference) to reflect TWERA and other matters.
- Publishing six thorough and well-developed issues of the NTHMP Newsletter, *TsuInfo Alert*. A specially-appointed Editorial Board assists regularly with this process.



The 2017 Annual Report describes accomplishments of the NTHMP, its subcommittees, and all of its partner states, territories, and regions. The activities completed and delivered through the NTHMP partners to serve our nation are amazing. Read the 2017 Annual Report for more details: <http://nws.weather.gov/nthmp/documents/2017AnnualReport.pdf>

This work is done collaboratively by our Federal, state, and territory partners and could not be done without the time of talented and dedicated people who serve the NTHMP in many ways. It's one thing to facilitate and orchestrate meetings and Work Groups – that's my job – but it is quite something else to witness the results of our work. Join me in celebrating the successes of a highly regarded model of collaboration that others wish to emulate.

1 <http://nws.weather.gov/nthmp/documents/NTHMPStrategicPlan.pdf>

2 <http://nws.weather.gov/nthmp/twera/usc33TWERA.pdf>

3 <http://nws.weather.gov/nthmp/assessments/2017assessment/assessment2017.html>

4 <http://nws.weather.gov/nthmp/documents/NTHMPRulesofProcedure.pdf>



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<http://www.dnr.wa.gov/programs-and-services/geology/geologic-hazards/tsunamis/tsuinfo-alert>

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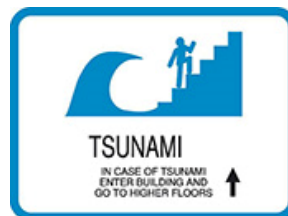
NATIONAL TSUNAMI HAZARD MITIGATION PROGRAM LIBRARY CATALOG:

<http://d92019.eos-intl.net/D92019/OPAC/Index.aspx>

The views expressed herein are those of the authors and not necessarily those of NOAA, the Washington Department of Natural Resources, or other sponsors of TsuInfo Alert.

New NTHMP Web Page Features Evacuation Signage

Based on interest from NTHMP state and territory partners, the NTHMP has created a new web page to share tsunami evacuation signage artwork and wayfinding guidance. Some of the artwork is available for download, but users are cautioned that while most states and territories use similar graphics, they are not always interchangeable. Before printing and installing signs, interested parties are encouraged to contact local or state/territory officials for additional information about local, state, and federal requirements. Artwork for other states and territories will be added as it becomes available. The new page is at <http://nws.weather.gov/nthmp/signs/signs.html>.



NTHMP NEWS

NTHMP Strategic Plan Completed

By Rocky Lopes, NTHMP Administrator

The *2018-2023 NTHMP Strategic Plan* was under development since August, 2017. The development process was described in an article in the December 2017 edition of *TsuInfo Alert* (https://www.dnr.wa.gov/publications/ger_tsuinfo_2017_v19_no6.pdf).

This strategic plan establishes the goals and strategies of the NTHMP under four themes: hazard and risk assessment; tsunami education and preparedness; mitigation and recovery; and alert, warning, and response.

NTHMP subcommittees have developed Annual Work Plans that describe the tactics they will take to implement the strategic plan's strategies. The annual work plans will change each year as activities are accomplished and new activities are taken on. Separating the strategic plan from subcommittee annual work plans will ensure that the NTHMP strategic plan remains "evergreen" for its five-year life.

The format and design of the *2018-2023 NTHMP Strategic Plan* is refreshing and illustrative of the highly collaborative and productive nature of NTHMP partners serving our nation.

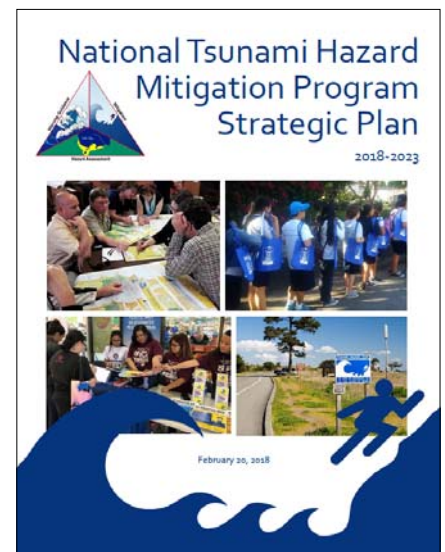
This strategic plan was discussed by the NTHMP Coordinating Committee at its meeting of November 28, and during that discussion, a new but short period of review was opened to the members of the Coordinating Committee. Minor editorial comments were received and ratified by the NTHMP Strategic Plan Work Group in December.

Further discussion of the strategic plan occurred again on Thursday, February 1, during the NTHMP winter meeting. As we looked at the strategic plan again with fresh eyes, we realized that another professional edit for grammar and style was needed.

Christa Rabenold (Mitigation Specialist, NWS Headquarters) offered to edit the document one more time for grammar and style. The Coordinating Committee voted on February 2 to ask the Strategic Plan Work Group review Christa's work and if her edits did not change meaning, then consider the strategic plan adopted.

The Strategic Plan Work Group's final review meeting was held on February 20, 2018, and without objection (and in ten minutes), the *2018-2023 NTHMP Strategic Plan* was accepted and considered final. Rocky Lopes sent it to a large group of stakeholders and posted it on the NTHMP website: <http://nws.weather.gov/nthmp/documents/NTHMPStrategicPlan.pdf>

Credit for this terrific accomplishment goes to the members of the Strategic Plan Work Group and the Coordinating Committee, along with insightful and supportive leadership by NTHMP Chair Dr. Grant Cooper, (as well as facilitation by yours truly) for getting this major deliverable completed on time to serve the NTHMP for years to come.



NTHMP NEWS

NTHMP Annual Report for 2017

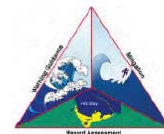
The 2017 National Tsunami Hazard Mitigation Program (NTHMP) Annual Report is now available. The report highlights the accomplishments of the NTHMP, the various subcommittees and work groups, and the partner states, territories, and coastal regions. This includes an overview of the many meetings that took place, the newly published materials (e.g. workshop proceedings, web pages), total NOAA/NWS tsunami activities grant awards, and the numerous administrative changes that occurred. The report also includes summaries from the following state and territorial agencies/institutions:

- Alaska Division of Homeland Security and Emergency Management/University of Alaska Fairbanks Alaska Earthquake Center/Alaska Division of Geological and Geophysical Surveys
- American Samoa Territorial Emergency Management Coordination
- California Governor's Office of Emergency Services/California Geological Survey
- Commonwealth of the Northern Mariana Islands Homeland Security and Emergency Management
- Guam Homeland Security
- Hawaii Emergency Management Agency/University of Hawaii
- Oregon Office of Emergency Management/Oregon Department of Geology and Mineral Industries
- University of Puerto Rico Puerto Rico Seismic Network
- Santa Rosa County Emergency Management Agency/Texas A&M University at Galveston (Gulf Coast)
- University of Delaware/University of Rhode Island (East Coast)
- U.S. Virgin Islands Territorial Emergency Management Agency
- Washington Emergency Management Division/Washington State Department of Natural Resources



2017

Authored by National Tsunami
Hazard Mitigation Program
Coordinating Committee Members
January 2018



**Accomplishments
of the National
Tsunami Hazard
Mitigation Program:
An Annual Report**

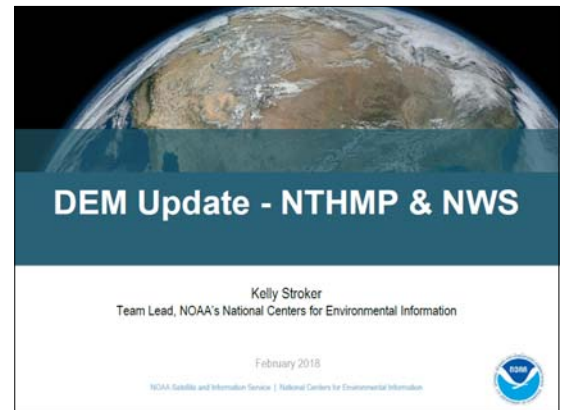
View full report here: <http://nws.weather.gov/nthmp/documents/2017AnnualReport.pdf>

NTHMP NEWS

Summary of the Mapping and Modeling Subcommittee Meeting January 29th, 2018

The Mapping and Modeling Subcommittee (MMS) met during the week of 29 January during the 2018 NTHMP Winter Meetings held in Seattle, Washington. The meeting began with an update of the Landslide Modeling Benchmark Workshop and introduction to the workshop website by Jim Kirby. A draft of the Workshop Proceedings Report has been compiled and is under review by MMS members.

Next was a discussion on Digital Elevation Model (DEM) development led by Kelly Stroker (National Centers for Environmental Information). In her presentation entitled Digital Elevation Model (DEM) Plans and Prioritization, Kelly reviewed DEMs completed in FY17, stated that no new NOAA DEMs would be developed in FY18 due to decreased funding, and requested a list of NTHMP member priorities for planning.



The next agenda item focused on MMS Annual Work and 5-yr Vision Plans. Led by Rick Wilson, questions considered realistic workloads and building code in ASCE7. Work plan ideas included: HAZUS guidance workshop beta testing of the tsunami module; completion of the MMS Maritime Guidance Document; geographic gap analysis of tsunami maps and products; sediment transport models for relevant areas; and guidance document for landslide-triggered tsunami modeling based on the previous workshop.

Work and vision planning was followed by a presentation by Paul Huang (NWS National Tsunami Warning Center) on Global Navigation Satellite System (GNSS). Entitled 'Quick and Accurate Magnitude Determination Can Get GPS Displacements; Tohoku Earthquake Inversion: Fastest Seismic Calculation About 9 Minutes', Paul provided an overview of GNSS measurements and their usefulness to operational tsunami forecasting. The NASA atomic clock problem was brought up.

Stephanie Ross provided an update from the Powell Center Working Group. She gave an overview of the four workshops, the first of which is scheduled for April 2018 in Fort Collins, Colorado. Questions were asked on what the workshop host provides and deadlines for the Powell Center paper.

A general discussion on the sharing of products and links took place by the entire MMS. Members verified what materials need to be made available to the public by the grant funding contracts. Group discussion switched to studying the 1911 Gulf of Mexico meteotsunami. Marie Eble was re-elected as the NOAA Co-Chair of the MMS. A short discussion of new business regarding the definition of "Assembly Areas" concluded the meeting.

View meeting agenda and minutes here: <https://nws.weather.gov/nthmp/2018annualmeeting/index.html>

NTHMP NEWS & EVENTS

NTHMP Mitigation and Education Subcommittee Winter 2018 Meeting – Seattle, Washington

The NTHMP Mitigation and Education Subcommittee (MES) met during the 2018 NTHMP Winter Meeting. The MES works to reduce tsunami impacts primarily through education and outreach that increase awareness and encourage preparedness. It also promotes and provides guidance on other risk reduction activities, such as evacuation planning and integration of tsunami risk into land-use policy and planning and, it provides recommendations for the National Weather Service's TsunamiReady® Program, which encourages communities to prepare for tsunamis. You can view the presentations presented during the Winter MES meeting here:

<https://nws.weather.gov/nthmp/2018annualmeeting/MESMeeting.pdf>



During 2018, the MES will continue to support the Strategies in 2018-2023 NTHMP Strategic Plan. MES will continue to focus on developing, updating, and disseminating outreach materials and ensure consistency; conduct trainings and educational outreach events and campaigns; increase TsunamiReady® communities; engage stakeholders on preparedness and response; improve community warning point reception capabilities; engage public schools and institutions of higher learning for tsunami preparedness; increase number of recognized TsunamiReady® Tier 2 Communities; and work with other subcommittees to identify and address gaps in



tsunami source characterization and modeling; complete inundation and evacuation maps for all unmapped U.S. coastal communities; provide technical assistance for risk assessments ; develop and implement a strategy for using HAZUS and product guidance.

For more information on the MES and future activities please refer to the MES website:

http://nws.weather.gov/nthmp/mitigation_subcommittee.html

UPCOMING NTHMP & RELATED EVENTS

- ◆ March 15, 2018—2018 CARIBE WAVE Exercises (48 Member States and Territories from the Caribbean and adjacent regions participating)



<http://caribewave.info/>

- ◆ May 14-17, 2018—Joint Conference of the Latin American and Caribbean Seismological Commission and the Seismological Society of America (Miami, Florida)



<http://seismology2018.org/>

- ◆ May 7-9, 2018—8th International Symposium on Submarine Mass Movements and Their Consequences (Victoria, British Columbia)



<http://igcp640.oceannetworks.ca/>

- ◆ June 3-8, 2018—15th Annual Meeting Asia Oceania Geosciences Society (AOGS) (Honolulu, Hawaii) <http://www.asiaoceania.org/aogs2018>



- ◆ June 25-29, 2018—11th National Conference on Earthquake Engineering (NCEE) (Los Angeles, California) <https://11ncee.org/>



- ◆ July 24-26, 2018—MES/MMS Summer Meetings (location TBA)

<https://nws.weather.gov/nthmp/>

