

MES Meeting Notes, 16 Sept 2026

Contents (POCs)

- MES Meeting notes
- LANTEX26 slide (summer.ohlendorf@noaa.gov, kara.sterling@noaa.gov)
- TsunamiZone slides (benthien@usc.edu)
- Multiannual Exercise Planning slides (kimberly.maisonet-gonzalez@noaa.gov)

NTHMP MES Meeting - Sept 16, 2026

Agenda:

- Welcome to new members from California (Julie & Phillip)
- CC approved of Laura as new MES co-chair starting 01 Dec!!
- MES Partner Announcements
 - B.C. tsunami exercise (Exercise Luta) on November 5th
 - Lantex (Summer, NTWC)
- TsunamiZone (Benthien, Statewide California Earthquake Center)
- Multiannual Tsunami Exercise Planning (Maisonet Gonzalez, ITIC)
- Work Plan and “endorsed” activities
- Next Meeting and Closing

****Please enter your name and affiliation in the chat.**

Attendees

Nicolas Arcos (NOAA), Mark Benthien (USC), Stephen Cahill (Guam), Harley Eriich (CNMI), Wildaomaris Gonzalez Ruiz (Puerto Rico), Mike Lucio (Alaska), Phillip Labra (California), Kimberly Maisonet-Gonzalez (NOAA), Katie Nguyen (NOAA), Summer Ohlendorf (NOAA), Cara Patton (Canada), Hannah Rabinowitz-Pratt (FEMA), Sarah Rogowski (NOAA), Julie Romig (California), Stephanie Ross (USGS), David Snider (NOAA), Laura Stimely (Oregon), Elyssa Tappero (Washington), Althea Rizzo (Oregon), Ed Fratto (East Coast)

Work Plan and “endorsed” activities

Background:

request from NWS to review MES "endorsement" process, including future endorsement of **budgets** for MES activities.

Request to the co-chairs of each subcommittee, work group, and caucus to share their endorsement process for the NTHMP grant process and develop a consistent process across all groups.

The co-chairs should have a complete picture of what they are endorsing and be aware of the requested funding. Co-chairs should review these endorsements annually ahead of each grant application cycle. **An endorsed activity receives priority for the full requested funding amount.**

A few *suggestions* from the co-chair meeting and the June Annual Meeting were for the applicants to present the task to their co-chairs or other specific group for consideration of an endorsement. Consider how the task relates to the NTHMP Strategic Plan and the specific groups' Work Plans, and whether this is a long-term commitment or a short-term project to benefit the stakeholders.

Work Plan and “endorsed” activities

Given the timeframe, MES co-chairs suggest

- Sept/Oct 2026: Sending out existing Work Plan 2025/26 for updates & additions for 2026/27
 - Nov 2026 – finalize Work Plan 2026/27 (Budgets NOT included)
- Oct/Nov 2026: Begin to document existing process; document possible process and requirements for evaluating budgets for future work plans (i.e., 2028 and beyond) .

Below is contingent on MES agreeing to require budgets for “endorsed” activities

- Nov 2026 to Mar 2027: Develop a draft process for evaluating budget requirements for MES “endorsed” activities.
- Apr/May 2027: Present process for evaluating budgets for future work plans to CC for approval

Next Meeting

- Date/Time
 - 18 November, 1pm PT
- MES co-chairs openings

Nic ends his 2nd (and last term) at the end of January 2027 (Fed)

Please consider this leadership opportunity

LANTEX26

Annual Tsunami Exercise

Date

Nov. 4, 2026

Time (EST)

12:30 - 3:15 PM

Host

National Tsunami
Warning Center



Objectives

- Practice using communication channels.
- Support testing of emergency response and coordination protocols
- Strengthen tsunami readiness along the Atlantic and Gulf coasts.

Audience

- NWS Partners, State EOCs, U.S. Military, FEMA
- First Responders, Emergency Management, Public Health & Safety, Local Authorities, Coastal Communities

Actions

- Prepare your teams and save the date.
- Sign up to receive tsunami exercise bulletins via email.
- Practice your local tsunami response on Nov. 4th.

EXERCISE: A Tsunami Warning is in effect for the coastal areas of Florida from Flamingo to Flagler Beach, FL



**Visual content modified by using Google (Gemini) AI Platform to remove people walking on the beach*

Ready to Participate? Scan the QR code to sign up



TsunamiZone.org:

Registration, Resources, & Regional Support

Mark Benthien

Statewide California Earthquake Center / Earthquake Country Alliance

benthien@usc.edu info@tsunamizone.org



TsunamiZone.org:

- Support for all NTHMP regions for sharing resources and tracking participation in Tsunami exercises & regional events (similar to ShakeOut)
- Your resource for encouraging activities and engagement in your city/county/region
- Provides flyers, guidance, and other tools for promoting participation and facilitating activities

SCEC/ECA supports you by creating resources, sending recruitment emails and info newsletters, posting on social media (@thetsunamizone) and supporting events

2026: 1.1 million people registered

- California: 468,842
- Caribbean: 613,525

The screenshot displays the TsunamiZone.org website. At the top, a navigation bar includes links for Home, Tsunamizone Regions, Other Languages, Contact Us, Search, and Login. Below this is a large banner image of a coastal landscape with a person running. The main header features the 'The TsunamiZone' logo. A secondary navigation bar lists: Register Here, Know Your Zone, Who is Participating?, How to Participate?, Resources, News & Events, and Partners & Sponsors. A green alert box states 'No Tsunami Warning, Advisory, Watch, or Threat'. The main content area is divided into two columns. The left column, titled 'WELCOME TO THE TSUNAMIZONE!', contains introductory text, links for 'ESPAÑOL' and 'FRANÇAIS', and a large graphic asking 'Are You in the Zone? #TsunamiReady' with the website URL. The right column, titled 'OFFICIAL ACTIVITIES (2026)', lists various events such as 'CARIBE WAVE 2026', 'California's Tsunami Preparedness Week', 'Alaska's Tsunami Preparedness Week', 'Hawaii's Tsunami Awareness Month', 'British Columbia Tsunami Preparedness Week', 'PACIFEX 2026', 'LANTEX 2026', and 'World Tsunami Awareness Day'. A blue bar below the main content area shows '1 million participants registered'. The bottom section is divided into three columns: 'PARTICIPATE AND SHARE' with links for 'How to Participate', 'Tsunami Resources', 'Who is Participating?', 'Share Your Activities', 'TsunamiReady', and 'Login for Certificates'; 'CHECK THE STATS' showing 'Global Total for 2026: 1 million' and 'Global Total for 2025: Over 930,000' with a graphic of people taking cover; and 'TSUNAMI TALK' featuring 'The TsunamiZone' logo and a link to a Twitter post. The footer contains logos for NOAA, National Tsunami Hazard Mitigation Program, USGS, Cal OES, and SCEC, along with a final navigation bar.

- Each region has a webpage with local content and registration info
- Regional reps – please review and send edits, new resources, etc.



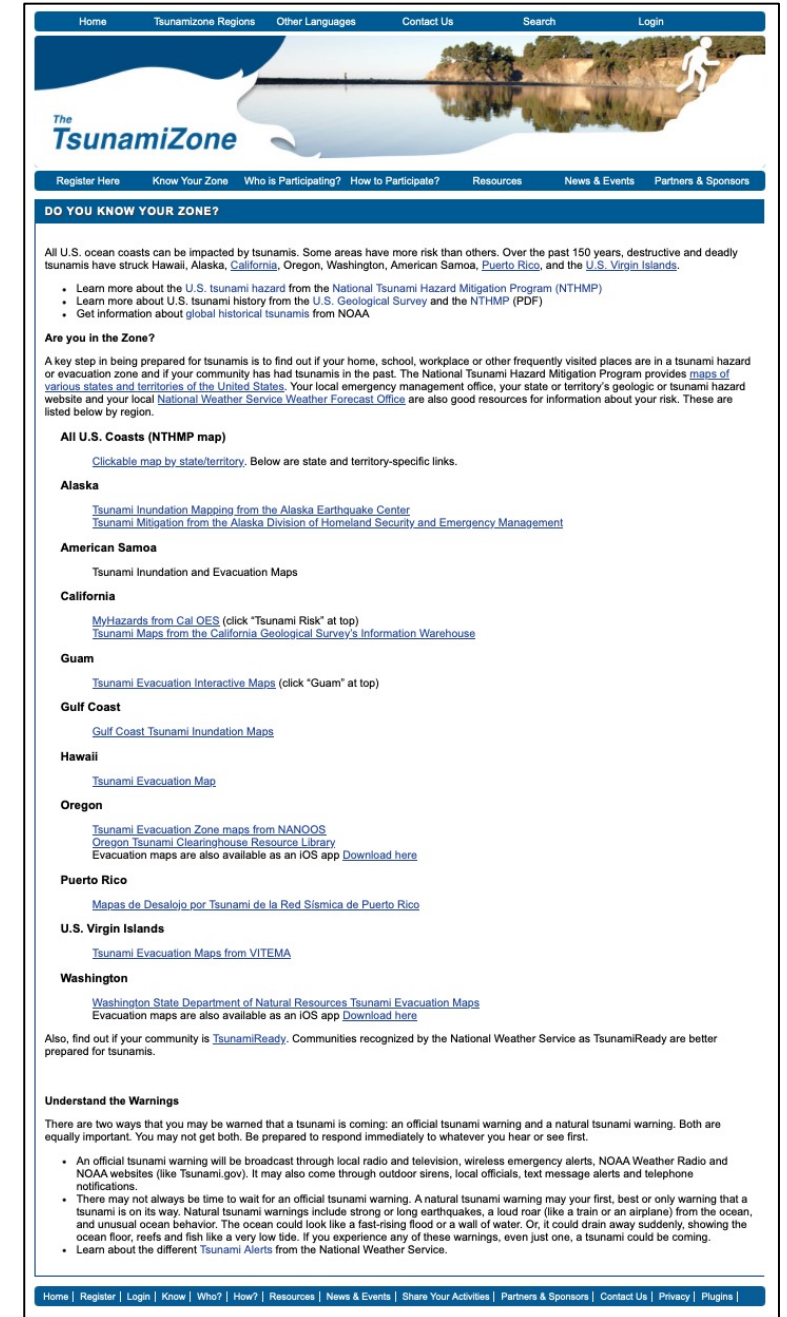
Know Your Zone: Maps for all coastal areas (nationally) showing tsunami hazard zones

Resources: Videos, manuals, posters, bookmarks, postcards, luggage tags for go bags, important document holders (new!)

How to Participate: Guidance for tsunami activities, evacuation drills, etc. (all should be register on TsunamiZone.org)

Activity Registration: Register your activities during Tsunami Preparedness Week (or any day of the year) to be included in the annual total at [Tsunamizone.org/register](https://tsunamizone.org/register)

Event Calendar: Learn about drills, presentations, and other events near you (and add your events)



The screenshot shows the homepage of TsunamiZone.org. The header includes navigation links: Home, Tsunamizone Regions, Other Languages, Contact Us, Search, and Login. Below the header is a large banner image of a coastal landscape with a person walking on a path. The main content area is titled "DO YOU KNOW YOUR ZONE?" and contains text about tsunami hazards, a list of resources, and a section for "Are you in the Zone?" which lists links to tsunami maps for various U.S. states and territories, including Alaska, American Samoa, California, Guam, Gulf Coast, Hawaii, Oregon, Puerto Rico, U.S. Virgin Islands, and Washington. The footer includes a list of links: Home, Register, Login, Know, Who?, How?, Resources, News & Events, Share Your Activities, Partners & Sponsors, Contact Us, Privacy, and Plugins.

Home Tsunamizone Regions Other Languages Contact Us Search Login

The TsunamiZone

Register Here Know Your Zone Who is Participating? How to Participate? Resources News & Events Partners & Sponsors

DO YOU KNOW YOUR ZONE?

All U.S. ocean coasts can be impacted by tsunamis. Some areas have more risk than others. Over the past 150 years, destructive and deadly tsunamis have struck Hawaii, Alaska, [California](#), Oregon, Washington, American Samoa, [Puerto Rico](#), and the [U.S. Virgin Islands](#).

- Learn more about the U.S. tsunami hazard from the National Tsunami Hazard Mitigation Program (NTHMP)
- Learn more about U.S. tsunami history from the U.S. Geological Survey and the NTHMP (PDF)
- Get information about global historical tsunamis from NOAA

Are you in the Zone?

A key step in being prepared for tsunamis is to find out if your home, school, workplace or other frequently visited places are in a tsunami hazard or evacuation zone and if your community has had tsunamis in the past. The National Tsunami Hazard Mitigation Program provides [maps of various states and territories of the United States](#). Your local emergency management office, your state or territory's geologic or tsunami hazard website and your local [National Weather Service Weather Forecast Office](#) are also good resources for information about your risk. These are listed below by region.

All U.S. Coasts (NTHMP map)

[Clickable map by state/territory](#). Below are state and territory-specific links.

Alaska

[Tsunami Inundation Mapping from the Alaska Earthquake Center](#)
[Tsunami Mitigation from the Alaska Division of Homeland Security and Emergency Management](#)

American Samoa

[Tsunami Inundation and Evacuation Maps](#)

California

[MyHazards from Cal OES](#) (click "Tsunami Risk" at top)
[Tsunami Maps from the California Geological Survey's Information Warehouse](#)

Guam

[Tsunami Evacuation Interactive Maps](#) (click "Guam" at top)

Gulf Coast

[Gulf Coast Tsunami Inundation Maps](#)

Hawaii

[Tsunami Evacuation Map](#)

Oregon

[Tsunami Evacuation Zone maps from NANOOS](#)
[Oregon Tsunami Clearinghouse Resource Library](#)
Evacuation maps are also available as an iOS app [Download here](#)

Puerto Rico

[Mapas de Desalojo por Tsunami de la Red Sísmica de Puerto Rico](#)

U.S. Virgin Islands

[Tsunami Evacuation Maps from VITEMA](#)

Washington

[Washington State Department of Natural Resources Tsunami Evacuation Maps](#)
Evacuation maps are also available as an iOS app [Download here](#)

Also, find out if your community is [TsunamiReady](#). Communities recognized by the National Weather Service as TsunamiReady are better prepared for tsunamis.

Understand the Warnings

There are two ways that you may be warned that a tsunami is coming: an official tsunami warning and a natural tsunami warning. Both are equally important. You may not get both. Be prepared to respond immediately to whatever you hear or see first.

- An official tsunami warning will be broadcast through local radio and television, wireless emergency alerts, NOAA Weather Radio and NOAA websites (like Tsunami.gov). It may also come through outdoor sirens, local officials, text message alerts and telephone notifications.
- There may not always be time to wait for an official tsunami warning. A natural tsunami warning may your first, best or only warning that a tsunami is on its way. Natural tsunami warnings include strong or long earthquakes, a loud roar (like a train or an airplane) from the ocean, and unusual ocean behavior. The ocean could look like a fast-rising flood or a wall of water. Or, it could drain away suddenly, showing the ocean floor, reefs and fish like a very low tide. If you experience any of these warnings, even just one, a tsunami could be coming.
- Learn about the different [Tsunami Alerts](#) from the National Weather Service.

Home | Register | Login | Know | Who? | How? | Resources | News & Events | Share Your Activities | Partners & Sponsors | Contact Us | Privacy | Plugins |

Know Your Zone: Maps for all coastal areas (nationally) showing tsunami hazard zones

Resources: Videos, manuals, posters, bookmarks, postcards, luggage tags for go bags, important document holders (new!)

How to Participate: Guidance for tsunami activities, evacuation drills, etc. (all should be register on TsunamiZone.org)

Activity Registration: Register your activities during Tsunami Preparedness Week (or any day of the year) to be included in the annual total at [Tsunamizone.org/register](https://tsunamizone.org/register)

Event Calendar: Learn about drills, presentations, and other events near you (and add your events)



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HOW TO PARTICIPATE AND PREPARE

Any coast is vulnerable to tsunamis. We can get better prepared before the next tsunami by practicing how to protect ourselves when one occurs. Remember, 1) Protect yourself during local earthquakes, 2) Go to high ground or inland, 3) Stay there!

The purpose of TsunamiZone.org is to help people and organizations know where their tsunami zone is located, how to know when a tsunami is on its way, and how to respond. Throughout each year, you are invited to participate in tsunami educational activities and drills, and register their participation on this website. There are many ways for individuals, businesses, schools, faith-based organizations, community groups, scouts, and others to "know your zone" and get prepared for tsunamis. Share what you're doing with others so they can do the same. Download one of the following flyers to see what you or your organization can do.

[Tsunami Basics for Everyone](#)


[Tsunami Basics for K12 and Higher Education](#)


[Tsunami Basics for Businesses](#)


[Tsunami Walk Guide](#)


[Tsunami Key Facts](#)


WHY PARTICIPATE?

Register today so that you or your organization will:

- Be counted as a participant on the TsunamiZone website!
- Be listed with other participants in your area (Optional)
- Be an example that motivates others to participate & prepare
- Be updated with TsunamiZone news and preparedness tips
- Have **peace of mind** that you, your family, your co-workers and millions of others will **be better prepared to survive and recover quickly** when a tsunami occurs!





Over 720,000 participants registered

PLAN YOUR TSUNAMI PREPAREDNESS ACTIVITIES

Here are possible tsunami preparedness activities that you can plan:

1. Attend or organize a tsunami walk drill
2. Print out a map of your evacuation zone
3. Attend a public lecture about tsunamis
4. Put together a "go bag" with essential supplies
5. Make a household or workplace tsunami plan
6. Establish an out of town contact for your household
7. Participate in a tsunami exercise at work
8. Join a tsunami communication exercise
9. Share #TsunamiPrep info on social media or email
10. Participate in a school evacuation drill
11. Hold a boater/marina evacuation drill to high ground
12. Watch a tsunami preparedness video

GET PREPARED

Check out these resources to understand how you and your family can prepare yourselves with available safety information:

[Tsunami Safety and Preparedness Information](#), NOAA

[Tsunami Walk Guide](#)

[Current Tsunami Alerts \(All Regions\)](#), NOAA

[International Tsunami Information Center](#)

[National Tsunami Warning Center](#), NOAA

[Caribbean Tsunami Warning Program](#), NOAA

[Pacific Tsunami Warning Center](#), NOAA

[Home](#) | [Register](#) | [Login](#) | [Know](#) | [Who?](#) | [How?](#) | [Resources](#) | [News & Events](#) | [Share Your Activities](#) | [Partners & Sponsors](#) | [Contact Us](#) | [Privacy](#) | [Plugins](#)

Know Your Zone: Maps for all coastal areas (nationally) showing tsunami hazard zones

Resources: Videos, manuals, posters, bookmarks, postcards, luggage tags for go bags, important document holders (new!)

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Resources: Videos, manuals, posters, bookmarks, postcards, luggage tags for go bags, important document holders (new!)

How to Participate: Guidance for tsunami activities, evacuation drills, etc. (eligible for registering on TsunamiZone.org)

Activity Registration: Register your activities to be counted in the annual total at [Tsunamizone.org/register](https://tsunamizone.org/register) - and indicate if part of a regional exercise

Event Calendar: Learn about drills, presentations, and other events near you (and add your events)

HOW WILL YOUR ORGANIZATION OR GROUP PARTICIPATE?

☒ **I/We will participate in one or more tsunami preparedness activities in 2026 ***

Please enter your best estimate for the number of actual participants. You can update your profile later and revise this estimate if necessary.

How many people will participate in your tsunami preparedness activity? (employees, members, visitors, etc.) *

Please check the boxes that best describe your tsunami preparedness activities. *

- ☐ Get to "know your zone" (map tsunami flooding areas, draw potential evacuation routes)
- ☐ Attend or organize a tsunami evacuation walk, drill, or exercise
- ☐ Participate in or lead a maritime evacuation drill or exercise
- ☐ Watch or organize a tsunami science and/or safety-focused lecture, workshop, show, or webinar
- ☐ Put together a tsunami preparedness kit (go / evacuation bag, home or work supplies, etc.)
- ☐ Make a tsunami plan for yourself, family, workplace, or school (establish contacts, roles, meeting locations)
- ☐ Establish local and out-of-area emergency contacts
- ☐ Share or interact with a tsunami science or safety-focused social media conversation (use #TsunamiReady)
- ☐ Join a government-led tsunami communications exercise
- ☐ Other

Describe your organization's plans for participating in tsunami preparedness activities:

Please check the box for any exercise or campaign in 2026 with which your tsunami activity is affiliated:

- ☐ CARIBE WAVE (March 19)
- ☐ California Tsunami Preparedness Week (March 21-29)
- ☐ Alaska Tsunami Preparedness Week (March 22-28)
- ☐ Hawaii Tsunami Awareness Month (April)
- ☐ PACIFEX (May 5)
- ☐ World Tsunami Awareness Day (November 5)
- ☐ LANTEX (November 4)
- ☐ Other
- ☐ My activity is not part of any exercise or campaign

☒ Yes ☐ No May we share information about your participation with researchers studying how people participate in tsunami preparedness activities? *

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Event Calendar: Learn about drills, presentations, and other events near you (and add your events)

[Home](#)[TsunamiZone Regions](#)[Other Languages](#)[Contact Us](#)[Search](#)[Login](#)



[Register Here](#)[Know Your Zone](#)[Who is Participating?](#)[How to Participate?](#)[Resources](#)[News & Events](#)[Partners & Sponsors](#)

2026 PARTICIPATION TOTALS

1,087,072 participants are registered in the 2026 TsunamiZone (as of 09/14/2026 9:42 PM PDT).

Category	Participants	Participation totals and lists for each area	Total
Individuals/Families	3,986		
Childcare and Pre-Schools	11,267		
K-12 Schools and Districts	341,580	Alaska	44
Colleges and Universities	174,991	California	468,842
Local Government	243,875	Caribbean (including PR and USVI)	613,525
State Government	47,678	CNMI	0
Federal Government (Including Military)	105,354	Guam	0
Tribes	11,053	Hawaii	230
Businesses	6,418	Oregon	148
Hotels and Other Lodgings	3,453	Washington	3,418
Healthcare	38,190	Other Areas	901
Senior Facilities/Communities	2,487		
Disability/AFN Organizations	577		
Non-Profit Organizations	8,411		
Neighborhood Groups	4,283		
Preparedness Organizations	56,406		
Faith-based Organizations	1,791		
Museums, Libraries, Parks, etc.	384		
Volunteer/Service Clubs	2,125		
Youth Organizations	337		
Animal Shelter/Service Providers	200		
Agriculture/Livestock	110		
Volunteer Radio Groups	2,983		
Science/Engineering Organizations	413		
Media Organizations	8,398		
Other	10,322		

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2026 CARIBBEAN PARTICIPATION TOTALS			
613,499 participants are registered in the 2026 TsunamiZone (as of 09/14/2026 9:42 PM PDT).			
Category	Participants	Participation totals and lists for each area	Total
Individuals/Families	3,253		
Childcare and Pre-Schools	10,387		
K-12 Schools and Districts	316,382	Antigua and Barbuda	9,278
Colleges and Universities	34,293	Aruba	6,303
Local Government	60,889	Bahamas	2
State Government	45,355	Barbados	1,535
Federal Government (Including Military)	19,717	Belize	2
Tribes	3	Brazil	16
Businesses	4,801	Colombia	394
Hotels and Other Lodgings	3,453	Costa Rica	22
Healthcare	22,229	Cuba	0
Senior Facilities/Communities	1,439	Curacao	5
Disability/AFN Organizations	152	Dominica	250
Non-Profit Organizations	5,294	Dominican Republic	431
Neighborhood Groups	4,217		
Preparedness Organizations	56,241	France	104,263
Faith-based Organizations	1,751	Guadeloupe	94,961
Museums, Libraries, Parks, etc.	384	Guyana	0
Volunteer/Service Clubs	1,866	Martinique	7,983
Youth Organizations	337	Saint Barthelemy	1,266
Animal Shelter/Service Providers	200	Saint Martin	0
Agriculture/Livestock	110	Other France	53
Volunteer Radio Groups	2,340	Grenada	7,682
Science/Engineering Organizations	396	Guatemala	32
Media Organizations	7,973	Guyana	10
Other	10,037	Haiti	27,947
		Honduras	2,219
		Jamaica	6,743
		Mexico	1,198
		Netherlands	55
		Bonaire	20
		Sint Eustatius	6
		Saba	5
		Other Netherlands	24
		Nicaragua	95
		Panama	6,054
		Saint Kitts and Nevis	7,501
		Saint Lucia	205
		Saint Vincent and the Grenadines	178
		Sint Maarten	15
		Suriname	0
		Trinidad and Tobago	252
		United Kingdom	16,451
		Anquilla	7
		Bermuda	325
		British Virgin Islands	6,092
		Cayman Islands	9,582
		Montserrat	20
		Turks and Caicos Islands	425
		Other UK	0
		United States (Caribe Wave)	247,035
		Puerto Rico	225,507
		US Virgin Islands	21,526
		Venezuela	167,352

PARTICIPATION TOTALS			
Registered in the 2026 TsunamiZone (as of 09/14/2026 9:42 PM PDT).			
	Participants	Participation totals and lists for each area	Total
	564		
	890	North Coast	29,959
	25,198	Del Norte	8,365
	140,696	Humboldt	21,518
	181,500	Lake Mendocino	74
	455	Shasta Cascade	74
	85,513	Butte	4
	11,000	Glenn	0
	1,607	Lassen	0
	0	Modoc	0
	15,552	Plumas	0
	1,048	Shasta	0
	395	Sierra	0
	3,076	Siskiyou	0
	66	Tahama	70
	160	Trinity	0
	40		
	0	Bay Area	59,312
	25	Alameda	48,859
	0	Contra Costa	794
	0	Marin	594
	440	Napa	14
	17	San Francisco	8,038
	425	San Mateo	634
	175	Santa Clara	210
		Solano	1
		Sonoma	126
		Delta Sierra	981
		Aleone	0
		Amador	0
		Calaveras	0
		Colusa	0
		El Dorado	0
		Nevada	0
		Placer	62
		Sacramento	466
		San Joaquin	99
		Stanislaus	142
		Sutter	1
		Tuolumne	210
		Yolo	0
		Yuba	0
		Inyo-Mono	0
		Inyo	0
		Mono	0
		Central Valley South	388
		Fresno	93
		Kern	0
		Kings	0
		Madera	56
		Maricopa	40
		Merced	16
		Tulare	183
		Central Coast	49,351
		Monterey	75
		San Benito	0
		San Luis Obispo	11,671
		Santa Barbara	37,526
		Santa Cruz	79
		Southern California Coast	212,166
		Los Angeles	63,519
		Orange	95,966
		Ventura	52,681
		Inland Southern California	1,238
		Imperial	200
		Riverside	579
		San Bernardino	459
		San Diego	110,181
		Multiple Counties	5,185

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Event Calendar: Learn about drills, presentations, and other events near you **(be sure to add your events!)**

PACIFEX

May 23, 2024, 918 - 2 pm (Virtual)

PACIFEX 2024 Exercise led by the NWS National Tsunami Warning Center

[More Info](#)

Annual Tsunami Response Playbook Communications Exercise

March 27, 2024, 2 - 3 pm (Virtual)

Welcome to 2024 Tsunami Preparedness Week!

On March 27, 2024, at 1400 hours, the California Tsunami Program will conduct the annual Tsunami Response Playbook Communications Exercise

Exercise Scenario: M8.9 Earthquake located in th....

[More Info](#)

Tsunami Community Breakfast

March 23, 2024, 8 - 11 am (Humboldt Grange #501)

Educational handouts will be made available.

[More Info](#)

Tsunami Preparedness Community Bike Ride (Wilmington)

April 1, 2023, 9 am - 12 pm (Wilmington Waterfront Park - Los Angeles)

Celebrate Tsunami Preparedness Week with a Community Bike Ride hosted by the City of LA Emergency Management Department in coordination with the SoCal Thrill Bike group.

[More Info](#) | [Event Website](#)

Annual Tsunami Playbook Communications Exercise (Statewide)

March 29, 2023, 1 - 3 pm (online event)

Annual exercise organized and run by Cal OES, CA Geol. Survey, and NWS-Weather Forecast Offices; participants will be emergency response officials from counties, cities, harbors, ports, and other governmental agencies who are on the TEDL.

[More Info](#)

Tsunami Warning Communications Test (North Coast)

March 29, 2023, 11 am - 12 pm (Del Norte, Humboldt, and Mendocino Counties Only)

Annual test of Tsunami Warning System to ensure it works properly during a real tsunami emergency

[More Info](#) | [Event Website](#)

2026 Tsunami Amateur Radio Exercise

Building Resilient Communities Together

LAXNORTHEAST, ETO, and many others are proud to support the **2026 TSUNAMI Exercise**, with encouragement from the USGS.

Amateur radio operators will simulate a response to a significant earthquake and subsequent tsunami warnings.

By completing **8 specialized Winlink tasks**, operators will practice sharing vital situational awareness, requesting welfare checks, and interfacing with local emergency management frameworks to keep neighborhoods informed.

- **When:** March 19, 2026, 0600 UTC to March 30, 2026, 0600 UTC.
- **Exercise ID:** Operators will use the official identifier **TSUNAMI** across all communications.
- **Learn More:** Visit the exercise hub at laxnortheast.org/exercises/tsunami

**Register your Tsunami Activities during
Tsunami Preparedness Week
(or any day of the year)**

[Tsunamizone.org/register](https://tsunamizone.org/register)

**If you are having an event open to the
public and/or news media, submit it
here:**

[Tsunamizone.org/calendar](https://tsunamizone.org/calendar)

The screenshot shows the homepage of TsunamiZone.org. At the top is a navigation bar with links: Home, TsunamiZone Regions, Other Languages, Contact Us, Search, and Login. Below this is a banner image of a coastal landscape with a person running. The main header area includes a green bar stating "No Tsunami Warning, Advisory, Watch, or Threat". Below this, there's a "WELCOME TO THE TSUNAMIZONE!" section with a "Find Out: TsunamiZone.org" button. To the right is an "OFFICIAL ACTIVITIES" section listing events like "CARIBE WAVE 2024", "California's Tsunami Preparedness Week", "Alaska's Tsunami Preparedness Week", "Hawaii's Tsunami Awareness Month", "British Columbia Tsunami Preparedness Week", "Pacifex 2024", "World Tsunami Awareness Day", and "Lantex 2024". Below the welcome section is a "PARTICIPATE AND SHARE" section with links for "How to Participate", "Tsunami Resources", "Who is Participating?", "Share Your Activities", and "TsunamiReady". To the right of this is a "CHECK THE STATS" section showing "Global Total for 2024: Over 700,000" and "Global Total for 2023: Over 830,000". Below the stats is a "TSUNAMI TALK" section with a post titled "The TsunamiZone" dated 12 Mar, discussing tsunami risks and providing a link to download a document. At the bottom of the page are logos for NOAA, National Tsunami Hazard Mitigation Program, USGS, Cal OES, and SC/EC.

[TsunamiZone.org](https://tsunamizone.org)

Connect with ECA & TsunamiZone

- EarthquakeCountry.org
- info@earthquakecountry.org
- TsunamiZone.org
- info@tsunamizone.org





Multiannual Tsunami Exercise Planning Workshop Summary

June 29 – July 02, 2026
Saint Lucia

Link to manual:

<https://unesdoc.unesco.org/ark:/48223/pf0000380540>



MG 86

Exercise Planning Components & Guidelines

Link to manual:

<https://unesdoc.unesco.org/ark:/48223/pf0000380540>

Steps

Strategies

Methods

Tools

Evaluation

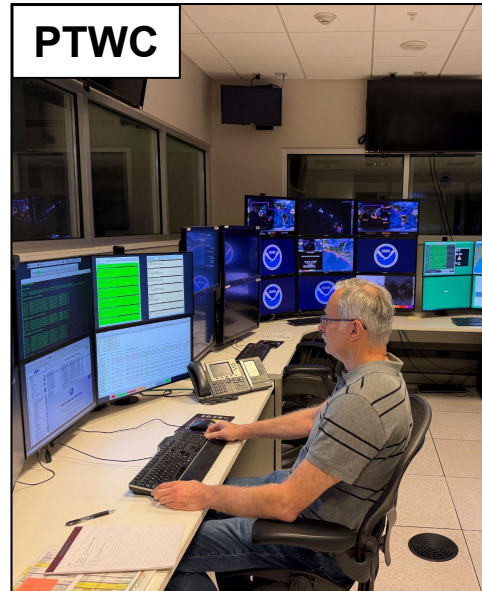
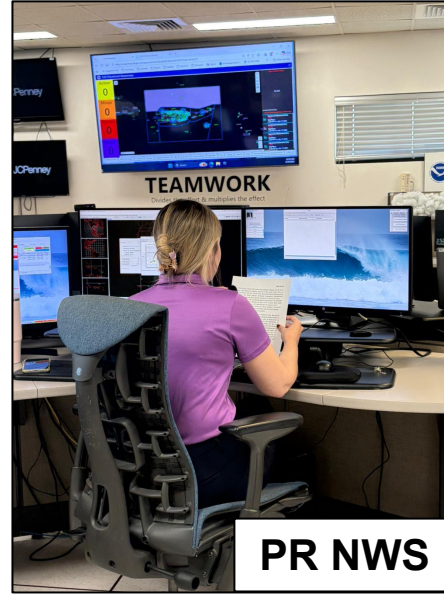
Promotion

Registration

Resources



Communications tests, tabletop exercises, authorities...



Evacuation drills, agencies, schools, public...





Scenario	Origin Time	Mw
Colombia	15:00:00 UTC 11 March 2027	8.47
Barbados		8.86



Multiannual Tsunami Exercise Planning Workshop

June 29 – July 02, 2026
Saint Lucia

Date	Time (UTC)	PTWC	
		Type of Product	Transmission Method
3/19/26	1500	---- Eruption Occurs ----	
3/19/26	1500	Dummy	NWWS, GTS, EMWIN, AISR, Email
3/19/26	1510	Initial Tsunami Information Statement #1	Email
3/19/26	1545	Tsunami Threat Message #2	Email
3/19/26	1630	Tsunami Threat Message #3	Email
3/19/26	1730	Tsunami Threat Message #4	Email
3/19/26	1830	Final Tsunami Threat Message #5	Email

Resources

VONUT Message #1

TEST...VONUT NUMBER 1...TEST

...THIS MESSAGE IS FOR THE CARIBEWAVE26 EXERCISE ONLY...

TEST...VOLCANO OBSERVATORY NOTICE FOR TSUNAMI THREAT ...TEST
TEST...VONUT...TEST

(2) TEST... Issued: 20260319/1130Z

(3) TEST... Volcano: Kick'em Jenny 360160

(4) TEST... Current Aviation Colour Code: Orange

(5) TEST... Previous Aviation Colour Code: Yellow

(6) TEST... Source: SRC

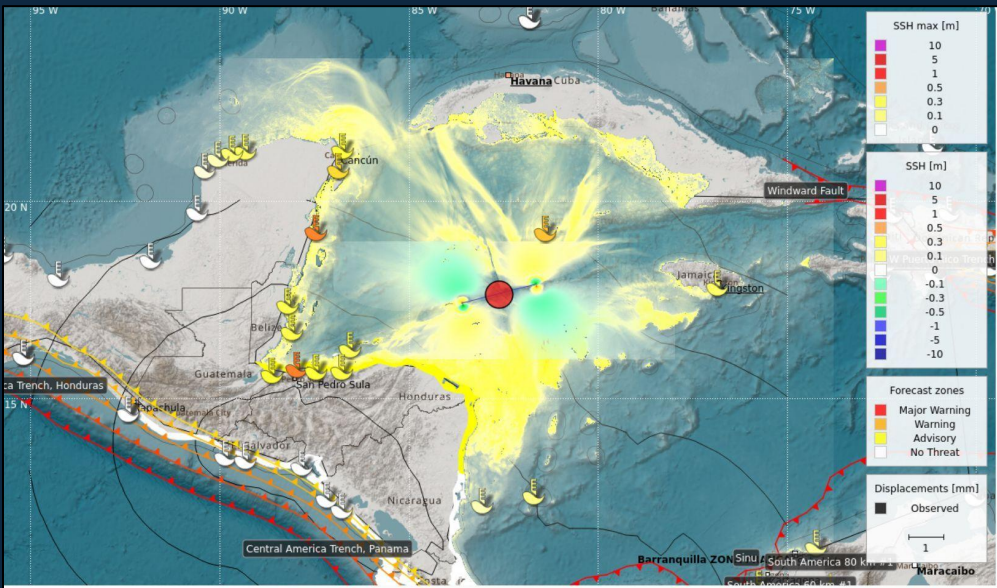
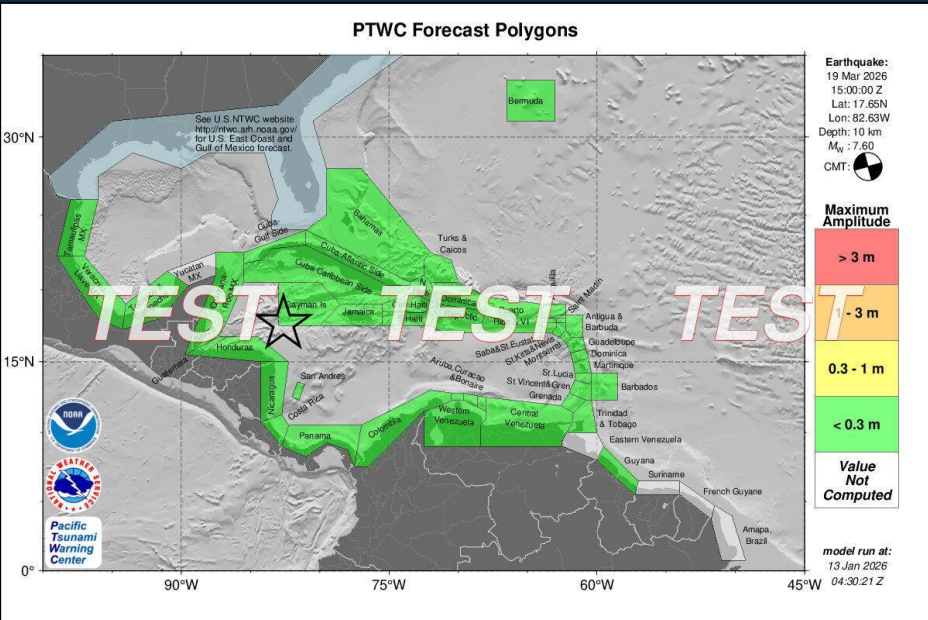
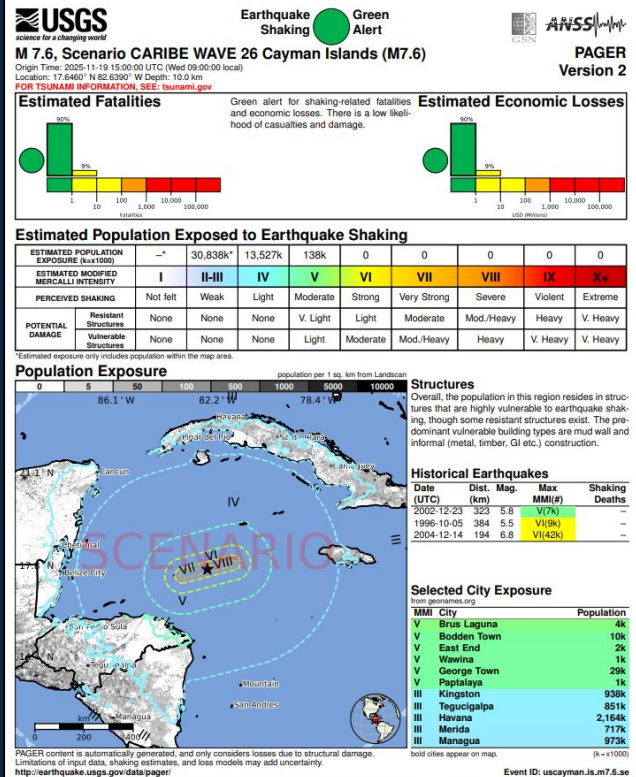
(7) TEST... Notice Number: 2026-01

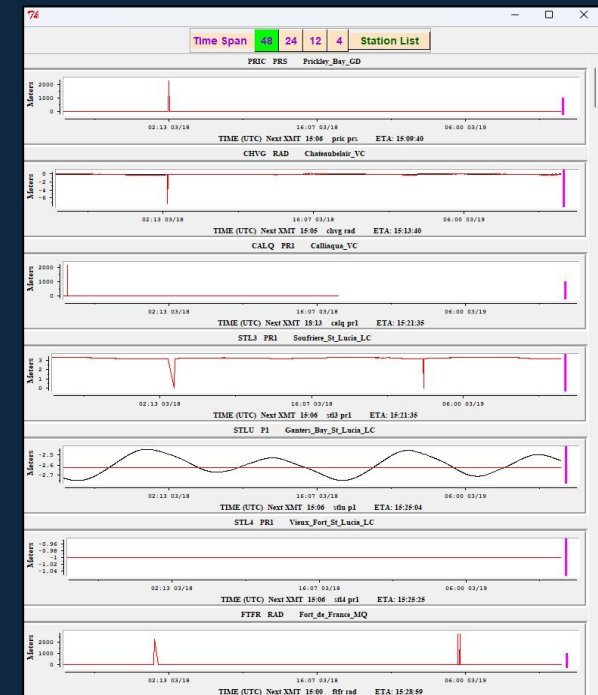
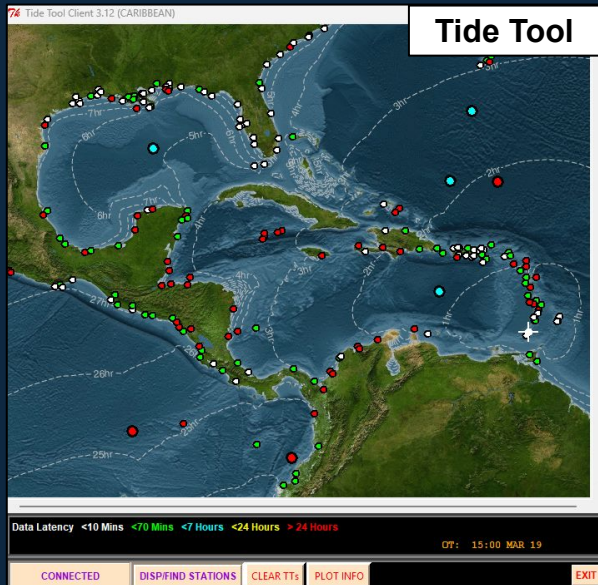
(8) TEST... Volcano Location: 1218N 6138W

(9) TEST... Area: Offshore north Grenada, Lesser Antilles

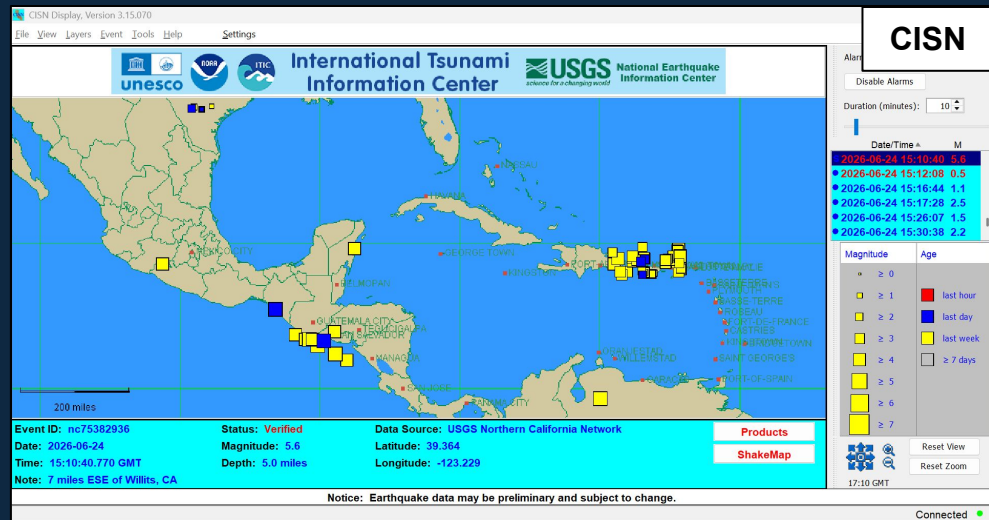
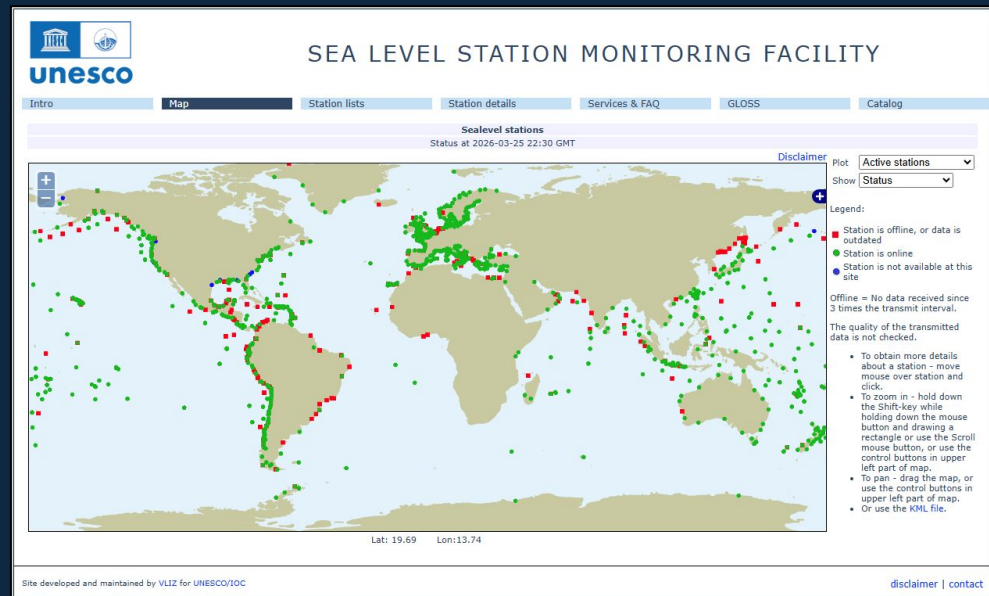
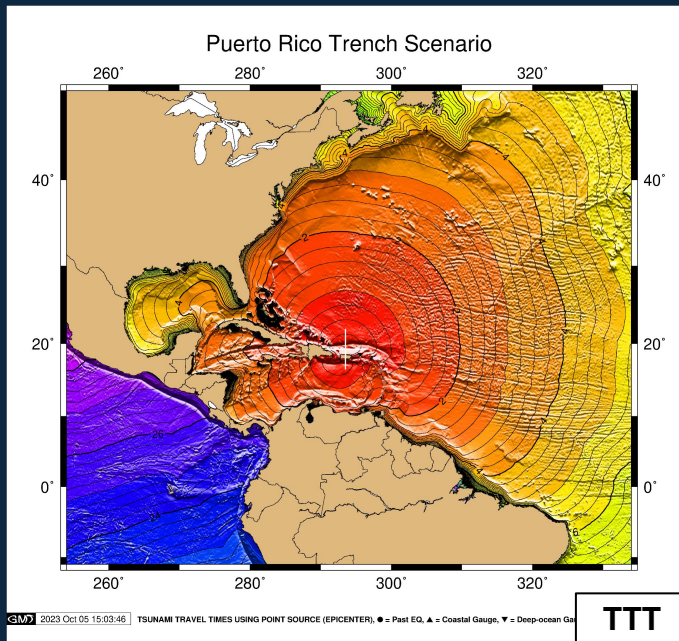
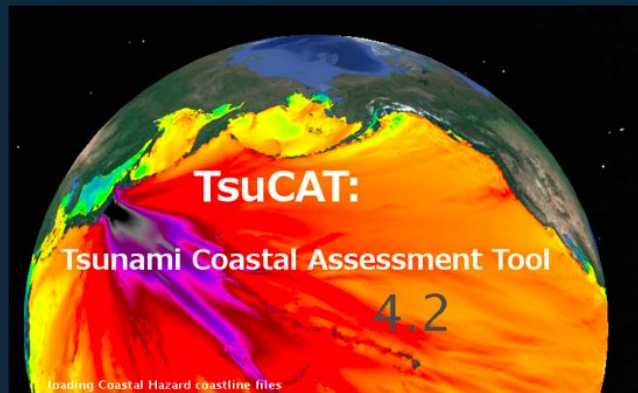
(10) TEST... Summit Elevation: -607 FT (-185 M)

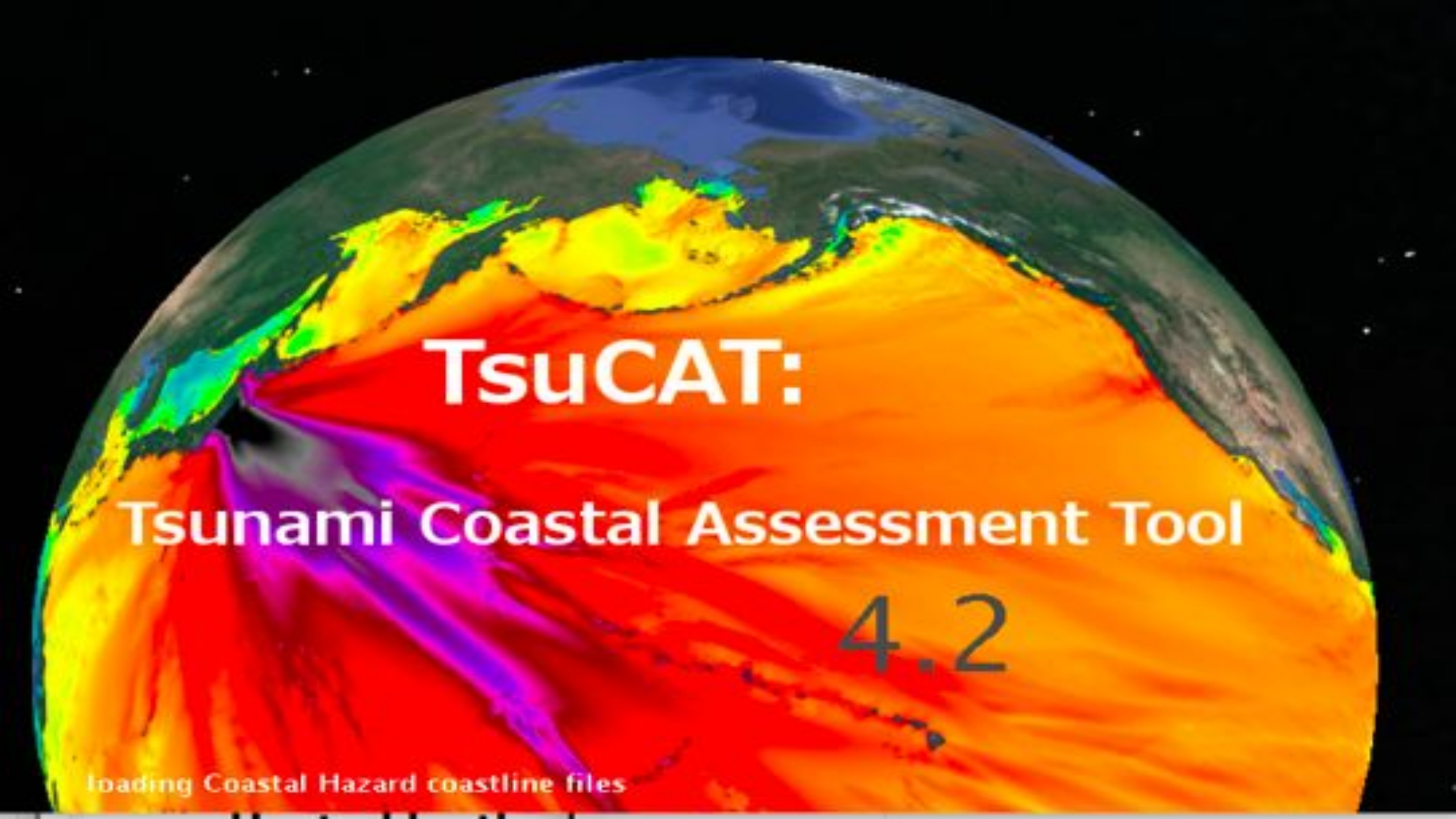
(11) TEST... Volcanic Activity Summary:
Increase in seismicity, including tremor and several M>3 earthquakes at shallow depths, over the past 6 hours





Tools





TsuCAT:

Tsunami Coastal Assessment Tool

4.2

loading Coastal Hazard coastline files

Features



- Database: ~5400 earthquake scenarios from along active subduction zones, Pacific, Caribbean, Indian Ocean (M6.5-9.5)
- Scenarios from Expert Meetings (Caribbean, Pacific)
- Results from NOAA models (MOST/SIFT (M8+), RIFT (M6.5-7.9))
- Exercise Messages and Injects



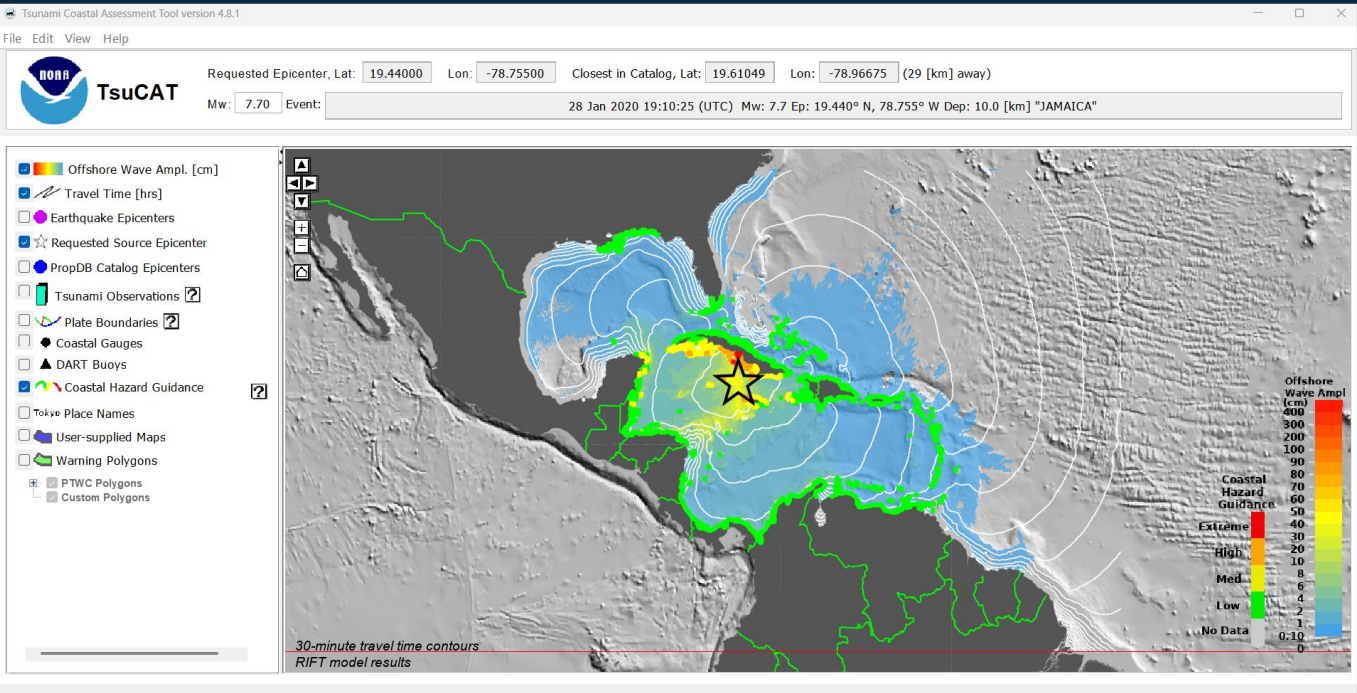
Layers and Features



- ☒  Offshore Wave Ampl. [cm]
- ☒  Travel Time [hrs]
- ☐  Earthquake Epicenters
- ☒  Requested Source Epicenter
- ☐  PropDB Catalog Epicenters
- ☐  Tsunami Observations 
- ☐  Plate Boundaries 

- ☐  Coastal Gauges
- ☐  DART Buoys
- ☐  Coastal Hazard Guidance
- ☒  Tokyo Place Names
- ☐  User-supplied Maps
- ☒  Warning Polygons
- ☒  PTWC Polygons
- ☒  Custom Polygons

Export PTWC Exercise Messages



2020 Jamaica M7.7

Messages

Epicenter:

UTC): Generate

Graphical Products

MESSAGE NUMBER 1...TEST
TSUNAMI WARNING CENTER HONOLULU HI
JAN 28 2020
THIS MESSAGE IS FOR TEST PURPOSES ONLY...
TSUNAMI THREAT MESSAGE TEST...

***** NOTICE *****

THIS MESSAGE IS ISSUED FOR INFORMATION ONLY IN SUPPORT OF THE
UNESCO/IOC PACIFIC TSUNAMI WARNING AND MITIGATION SYSTEM AND IS
MEANT FOR NATIONAL AUTHORITIES IN EACH COUNTRY OF THAT SYSTEM.

NATIONAL AUTHORITIES WILL DETERMINE THE APPROPRIATE LEVEL OF
ALERT FOR EACH COUNTRY AND MAY ISSUE ADDITIONAL OR MORE REFINED
INFORMATION.

***** NOTICE *****

TEST... PRELIMINARY EARTHQUAKE PARAMETERS ...TEST

* MAGNITUDE 7.7
* ORIGIN TIME 1910 UTC TUE JAN 28 2020
* COORDINATES 19.4 NORTH 78.8 WEST
* DEPTH 10 / 6 MILES
* LOCATION CUBA REGION

TEST... EVALUATION ...TEST

completed. ☒ Include Exercise Injects (select to customize)

Open Messages Folder



Export PTWC Exercise Messages

2020 Jamaica M7.7

Export Exercise Messages

Mag: 7.7 Epicenter: 19.440° N, 78.755° W

Origin time (UTC): 01/28/2020 19:10 Generate 00:06 Message 1 00:26 Coastal Forec...

Text Messages Graphical Products

TEST...TSUNAMI MESSAGE NUMBER 1...TEST
NWS PACIFIC TSUNAMI WARNING CENTER HONOLULU HI
1916 UTC TUE JAN 28 2020

...THIS MESSAGE IS FOR TEST PURPOSES ONLY...
...TEST PTWC TSUNAMI THREAT MESSAGE TEST...

***** NOTICE *****
THIS MESSAGE IS ISSUED FOR INFORMATION ONLY IN SUPPORT OF THE
UNESCO/IOC PACIFIC TSUNAMI WARNING AND MITIGATION SYSTEM AND IS
MEANT FOR NATIONAL AUTHORITIES IN EACH COUNTRY OF THAT SYSTEM.

NATIONAL AUTHORITIES WILL DETERMINE THE APPROPRIATE LEVEL OF
ALERT FOR EACH COUNTRY AND MAY ISSUE ADDITIONAL OR MORE REFINED
INFORMATION.

***** NOTICE *****

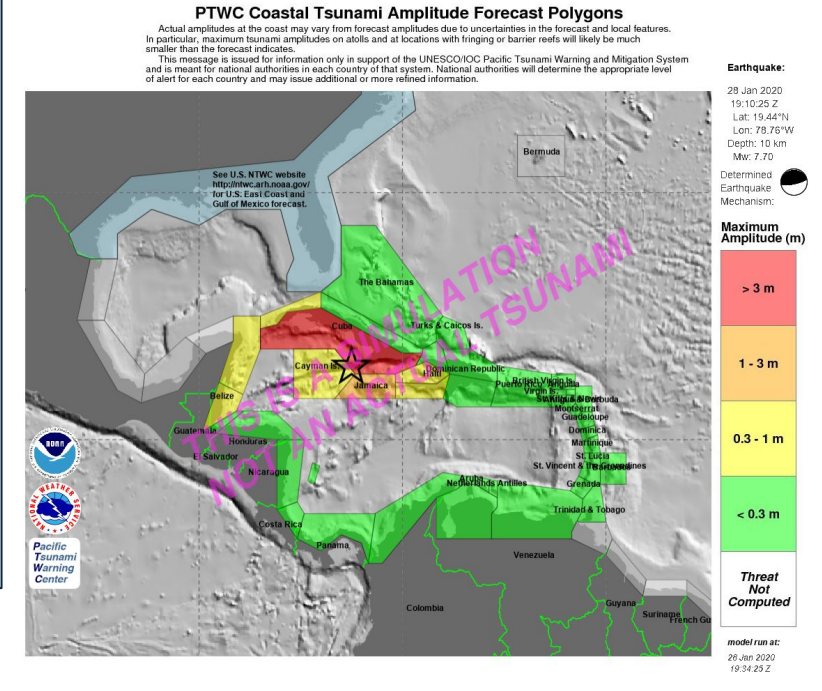
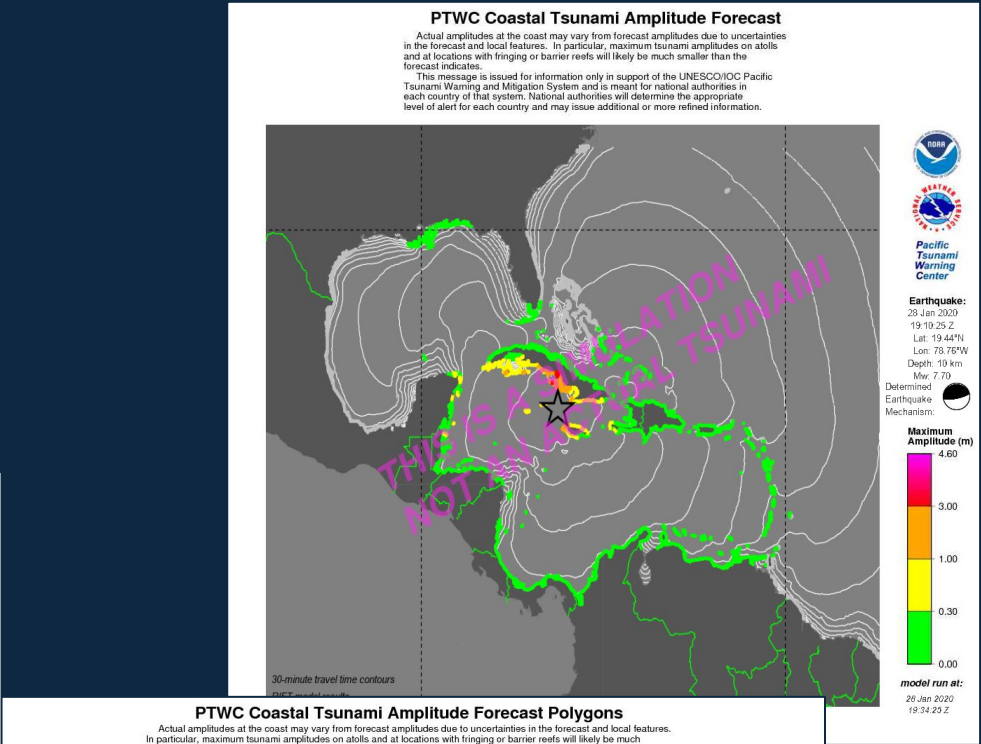
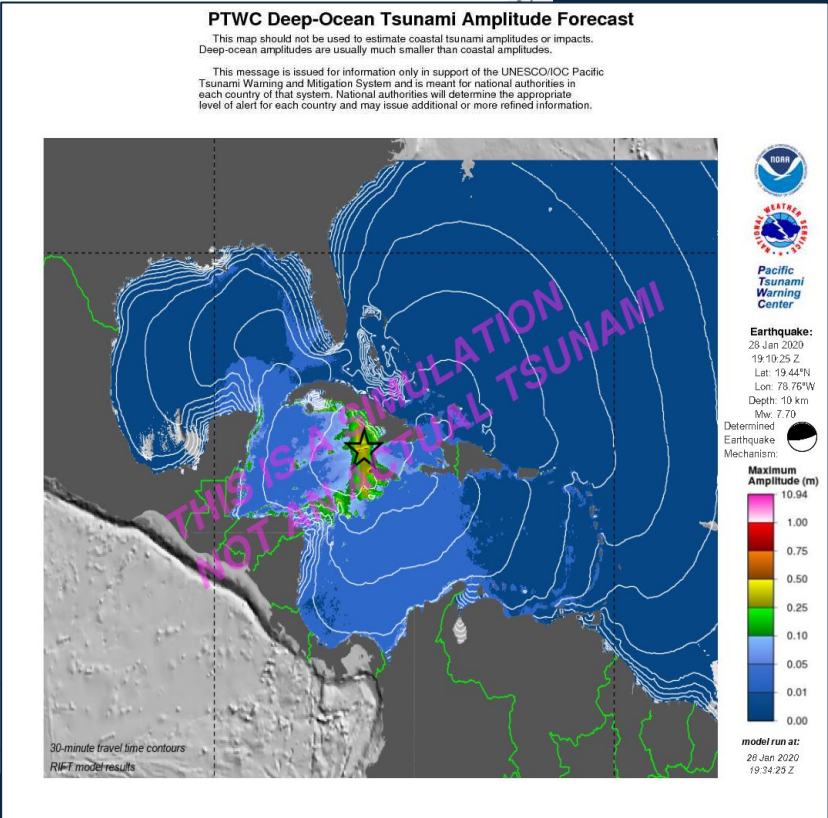
TEST... PRELIMINARY EARTHQUAKE PARAMETERS ...TEST

* MAGNITUDE	7.7
* ORIGIN TIME	1910 UTC TUE JAN 28 2020
* COORDINATES	19.4 NORTH 78.8 WEST
* DEPTH	10 / 6 MILES
* LOCATION	CUBA REGION

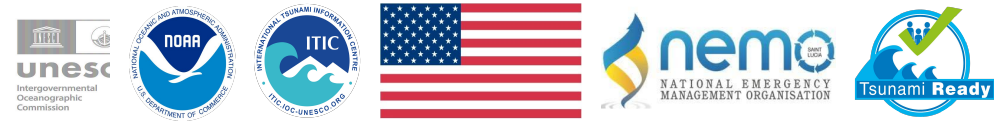
TEST... EVALUATION ...TEST

completed.

☒ Include Exercise



Exercise Situational Injects



- Injects enable customization
 - Unexpected scenario, questions, inquiries related to PTWC messages
- Excel format (can further add)

Exercise Injects

Set Country:

Name/Acronym of Tsunami Warning Center:

Head of Tsunami Warning Center:

Name of Earthquake Monitoring Agency:

Name/Acronym of Emergency Management Agency:

Government lead (eg, President, Senator, Prime Minister):

TV News station:

Radio station:

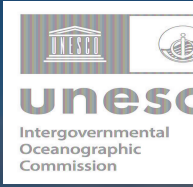
Include public member injects: ☒

When done adding country Injects above, set Exercise Time and filename and click "OK"

Exercise Time (Local):

Exercise Injects filename (Excel):

Earthquake - Origin: 01/28/2020 19:10 UTC Coordinates: 19.4N 78.8W Depth: 10km Magnitude: 7.7						
Inject #	Time (UTC)	Time Since Event [hh:mm]	Exercise Time (Local)	Product/Inject	To	From
1	19:10	00:00	10:00	Earthquake Occurs!	All	Controller
2	19:11	00:01	10:01	US Geological Survey calculates Preliminary Earthquake Parameters: 19.4° N, 78.8° W, 7.0, depth unknown.	All	Controller
3	19:12	00:02	10:02	Earthquake alarms trigger from P wave amplitudes off-scale at regional seismic network station	All	Controller
4	19:15	00:05	10:05	CISN Display shows PTWC Earthquake Information, M7.7	All	Controller
5	19:16	00:06	10:06	PTWC Message 1: PTWC Tsunami Threat Message Initial M7.7	TWC	PTWC
6	19:23	00:13	10:13	TWC confirms tsunami at gauge: Cayman Brac, by Tide Tool, measured 79.2 cm at 1922 UTC, Wave Period 21 min	TWC	Controller
7	19:24	00:14	10:14	TWC confirms tsunami at gauge: Little Cayman, by Tide Tool, measured 61.8 cm at 1923 UTC, Wave Period 23 min	TWC	Controller
8	19:28	00:18	10:18	The shaking woke me up and my house was shaking for more than 60 seconds. Some power lines fell down are down. What has just happened? Where was the earthquake? Is there a tsunami? When will it hit?	EMA, TWC	Coastal Resident
9	19:29	00:19	10:19	TWC confirms tsunami at gauge: Gun Bay, by Tide Tool, measured 54.7 cm at 1929 UTC, Wave Period 19 min	TWC	Controller
10	19:33	00:23	10:23	Many coastal provinces and local governments hear media reports that PTWC is forecasting waves more than 0.8-meters. A school principal calls: What should she do? Her school is on the beach!	EMA/TWC	Local Government
11	19:33	00:23	10:23	CNN News broadcasts live video of start of surf contest at North Coast beach. It looks like a great day and waves look to be 3 m high. Surf's up. There are surfers heading into the water, and crowds are gathering	EMA, TWC	Media
12	19:34	00:24	10:24	PTWC Message 2: PTWC Tsunami Threat Message Regional M7.7	TWC	PTWC
				CAYMAN ISLANDS President calls and warns...		



THANK YOU!
Kimberly Maisonet

Multiannual Tsunami Exercise Planning

Link to manual:

<https://unesdoc.unesco.org/ark:/48223/pf0000380540>

NTHMP MES Meeting

January 21, 2026

Agenda:

- Welcome and Sign In
- MES Partner Announcements
- 'Tsunami Aware' recognition
- MES Work Plan Discussion
- Next Meeting and Closing

****Please enter your name and affiliation in the chat.**

MES Partner Announcements

- Please use the raise your hand button if you would like to make an announcement to the group.

TsunamiAware Recognition Option

- Presentation by Ed Fratto, Executive Director
Northeast States Emergency Consortium (NESEC)

NTHMP MES Work Plan Review

Work Plan Activity Review

- 1) Will the activity continue or not?
- 2) Are there any updates or needs for the MES?

Next Meeting

- Date/Time
 - Wednesday, March 18, 2026
 - 1300-1400 PT
- Topics:
 - NTHMP Annual Meeting Planning

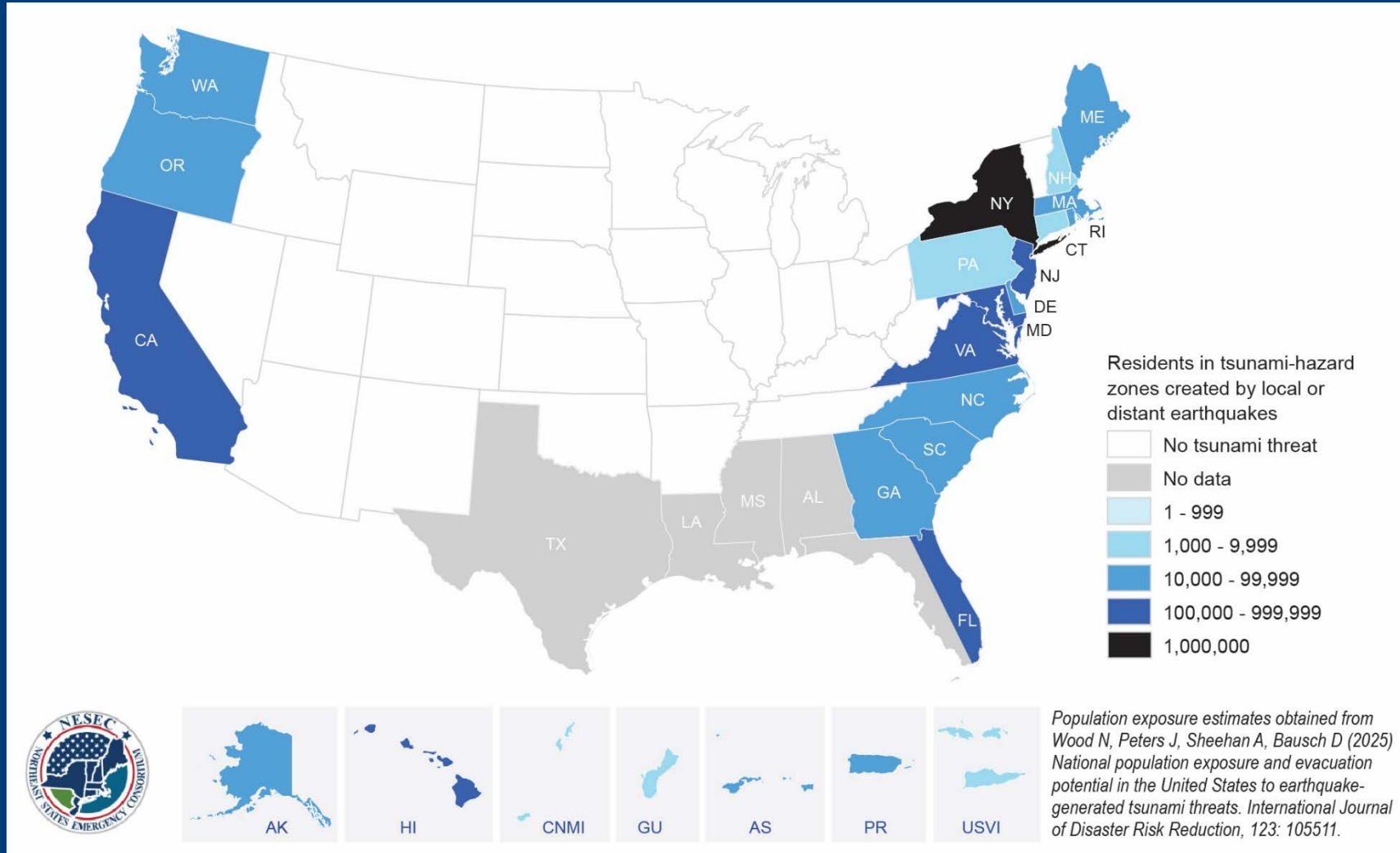
Establishing a TsunamiAware Recognition Option



Ed Fratto, Executive Director
Northeast States Emergency Consortium (NESEC)

Over 2.5 M USEC Residents Live in Tsunami Hazard Zones

1M in New York and 600 K in Florida



The US East Coast Receives Monthly Tsunami Warning Center Tests



Product: WEXX20 PIL Header: TSUAT1		Start of Test Time Zones:	UTC	1630		
		12/16/2025				
Telecommunications Systems						
National Weather Service - AWIPS / GTS		AWIPS IDENTIFIER: ANCTSUA1		Message Received	Comment	NAWAS Response
Eastern Region Coastal Forecast Offices		TMA code				
WFO Caribou ME	TMACAR SEUS41 KCAR	ME	x			
WFO Gray/Portland ME	TMAGYX SEUS41 KGYX	ME	x			
WFO Boston MA	TMABOX SEUS41 KBOX	MA	x			
WFO New York NY	TMAOKX SEUS41 KOKX	NY	x			
Philadelphia PA / Mt Holly NJ	TMAPHI SEUS41 KPHI	PA / NJ	x			
Wakefield VA	TMAAKO SEUS41 KAKO	VA	x			
Newport/Morehead City NC	TMAHXX SEUS42 KMHX	NC	x			
Wilmington NC	TMAILM SEUS42 KILM	NC	x			
Charleston SC	TMACHS SEUS42 KCHS	SC	x			
Southern Region Coastal Forecast Offices			0:00			
Jacksonville FL	TMAJAX SEUS42 KJAX	FL	x			
Melbourne FL	TMAMLB SEUS42 KMLB	FL	x			
Miami FL	TMAMFL SEUS42 KMFL	FL	x			
Key West FL	TMAKEW SEUS42 KKEY	FL	x			
Tampa FL	TMATBW SEUS42 KTBW	FL	x			
Tallahassee FL	TMATAE SEUS42 KTAE	FL	x			
Mobile AL	TMAMOB SEUS44 KMOB	AL	x			
New Orleans LA	TMALIX SEUS44 KLIX	LA	x			
Lake Charles LA	TMALCH SEUS44 KLCH	LA	x			
Houston TX	TMAHGX SEUS44 KHGX	TX	x			
Corpus Cristi TX	TMACRP SEUS44 KCRP	TX	x			
Brownsville TX	TMABRO SEUS44 KBRO	TX	x			
San Juan PR	TMASJU SECAR42 TJSJ	PR	x			
https://forecast.weather.gov/product_sites.php?site=CRH&product=TMA						
Hurricane/Tropical Prediction Center		FL	x			
Canada						
https://www.burman.org/committees/committees.php						
Forecasting Center in Toulouse	permanence-dprevi@meteo.fr	FR	x			
Forecaster St.-Pierre and Miquelon arch.	previ975@meteo.fr	FR	x			
Meteorological Service of Canada	Nova Scotia - @canada.ca					
Environment Canada	telecom@ec.gc.ca	NS	x			
FEMA NOAA Weather Wire			0:00			
Region I	Maine EMA - Dept of Public Safety	ME	x			
Region I	Connecticut Office of Emergency Management - State Police HQ	CT	x			
Region I	Massachusetts Emergency Management Agency (MEMA)	MA	x			x
Region I	New Hampshire Bureau Of Emergency Management - State Police	NH	x			
Region I	Rhode Island Emergency Management Agency (State Police)	RI	x			x
Region II	New York State Emergency Management Office (SEMO)	NY	x			x
Region II	New Jersey Office of Emergency Management - NJ State Police HQ	NJ	x			x
Region III	Delaware Emergency Management Agency - State Police	DE	x			
Region III	Maryland Department of Emergency Management - Joint Ops Center	MD	x			
Region III	Pennsylvania Emergency Management Agency	PA	x			
Region III	Virginia Emergency Operations Center	VA	x			x
Region IV	North Carolina Division of Emergency Management (State Hwy Patrol 919-73)	NC	x			x
Region IV	South Carolina Emergency Management Division	SC	x			x
Region IV	Georgia Emergency Management Agency (GEMA)	GA	x			x
Region IV	Florida Division of Emergency Management	FL	x			x
Region IV	Alabama Emergency Management Agency	SWP - 205-280-2310 or 800-843-0699	AL	x		x
Region IV	Mississippi Emergency Management Agency (MEMA)		MS	x		x
Region VI	Louisiana Office of Homeland Security and Emergency Preparedness (LHLSEP)		LA	x		x
Region VI	Texas Division of Emergency (TDEM) - The Watch		TX	x		
Canada	Government of Canada Operations Centre (GOC-COG)		ON	x		x
Region II	Puerto Rico Emergency Management Agency (PREMA) (Control AEMEAD).		PR			x
No longer tested. Response optional!!						
U.S. Coast Guard			0:00			
USCG COMMCOM, Chesapeake (relay to CGMS)		VA	x			
USCG District 1, Boston		MA	x			
Atlantic Area Command Center - Portsmouth, USCG Atlantic Area - VA (replaces District 5 entry) LANTWATCH		VA	x			
USCG District 7, Miami		FL	x			
USCG District 8, New Orleans		LA	x			x
FLEWEACEN, Norfolk		VA	x			
NAVMARFSCSTEN						
Test...Tsunami Message Number 1...Test		Total participation in test:		100.0%		
		Phone calls to nonresponders:			0.0%	
		Total participation in NAWAS:				65.2%

BUT WHAT IF A TSUNAMI WARNING IS ISSUED TONIGHT ?
IS THE EAST COAST READY?



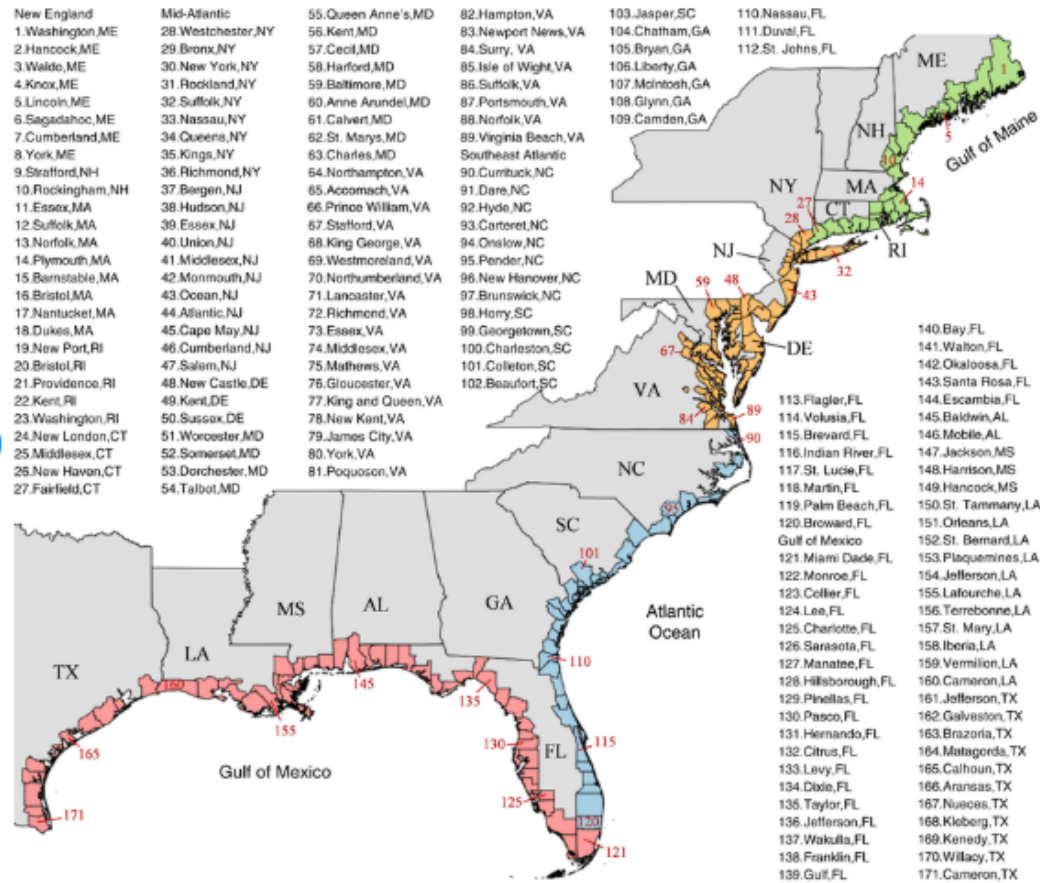
There are 121 Counties on THE USEC...

Figure - available from: [Nature Communications](#) 

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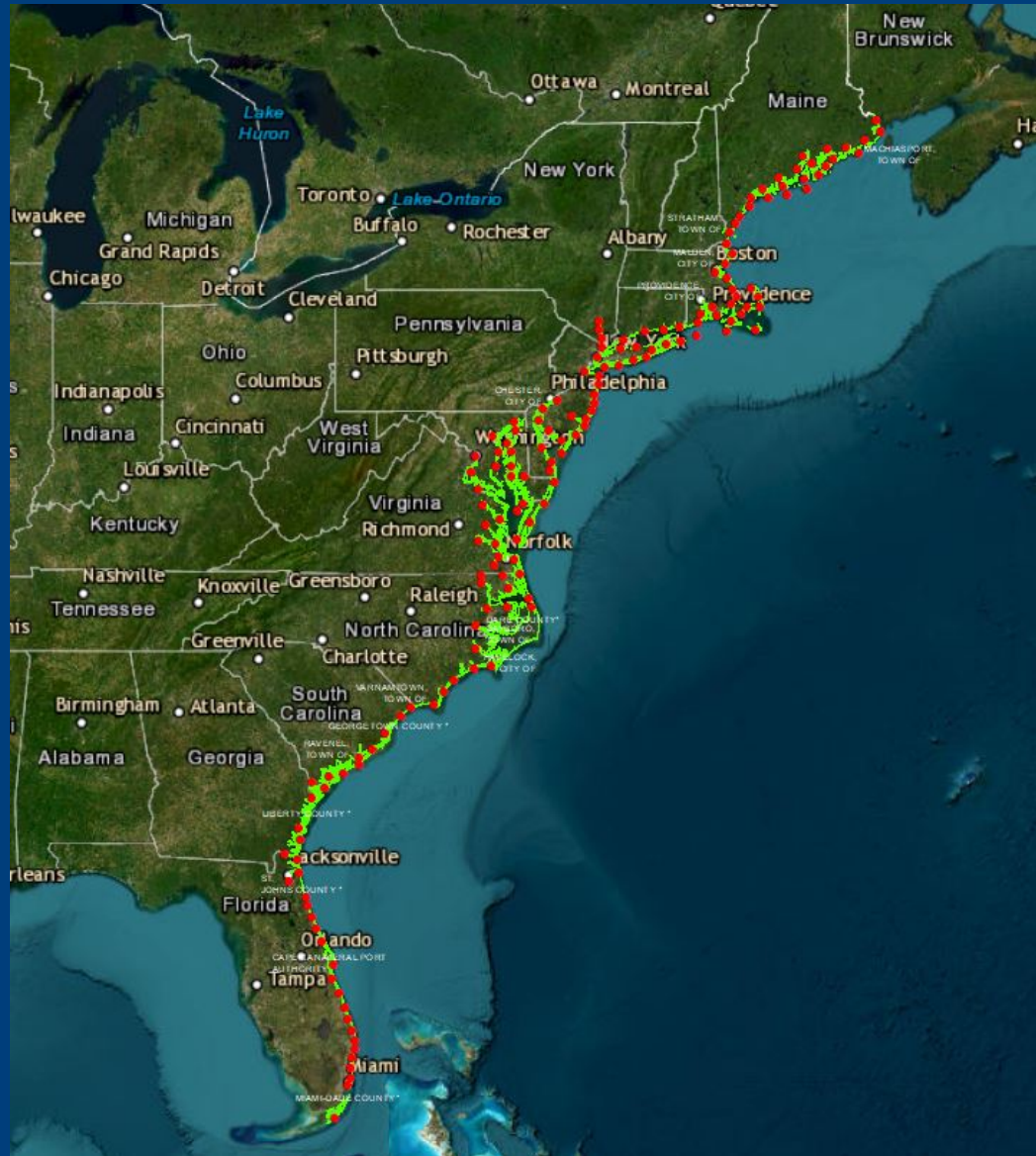
Download

View publication

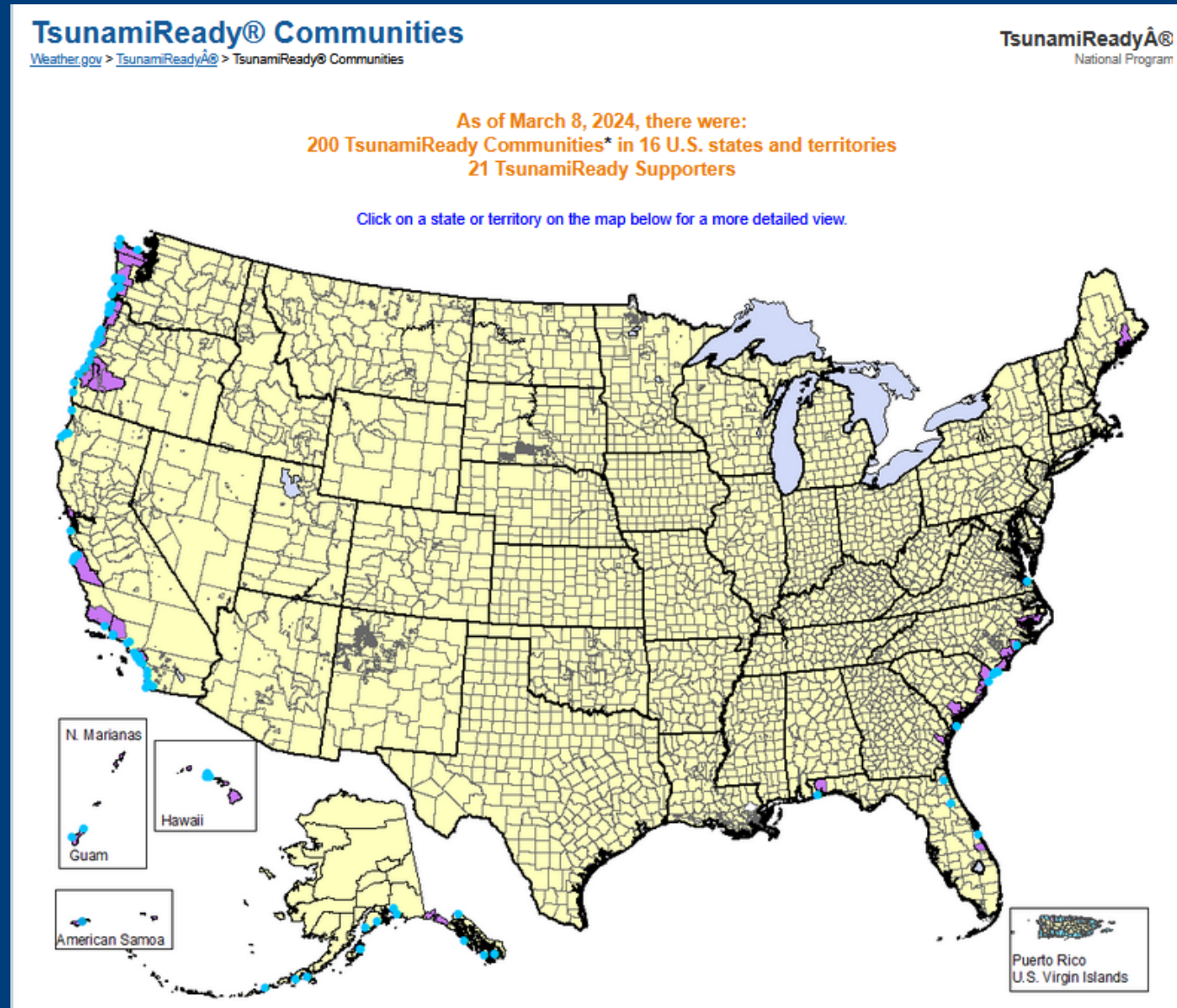


Coastal counties along the US Atlantic and Gulf Coasts (numbers represent the county ID). The study area is divided into four regions: New England (green), mid-Atlantic (orange), southeast Atlantic (blue), and Gulf of Mexico (red). Source data are provided as a Source data file

653 communities...



and 26 or only about 4% are TsunamiReady



Tsunami Ready East Coast Communities Barriers to Entry



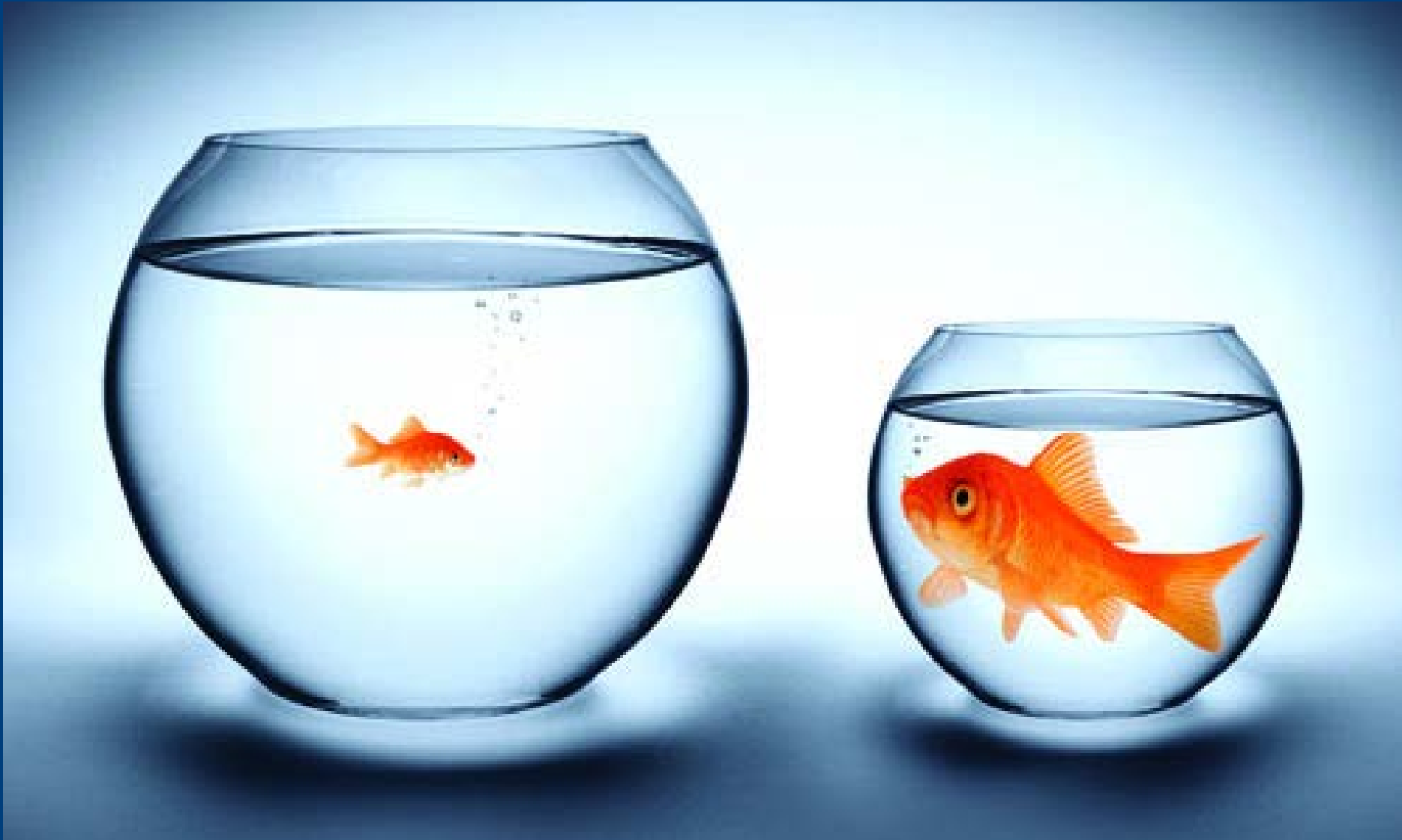
- Low perceived tsunami risk
- Cost/Benefit imbalance (requirements vs. perceived risk)
- Growing competing coastal threats (hurricanes, tropical storms, noreasters, etc)
- Diminishing EM resources
- Hazard zone signage requirements
- Recurring evacuation drills
- Ongoing sustained hazard awareness
- No intermediate milestone (interest stalls without achievable first step)

Proposed Solution – TsunamiAware Option

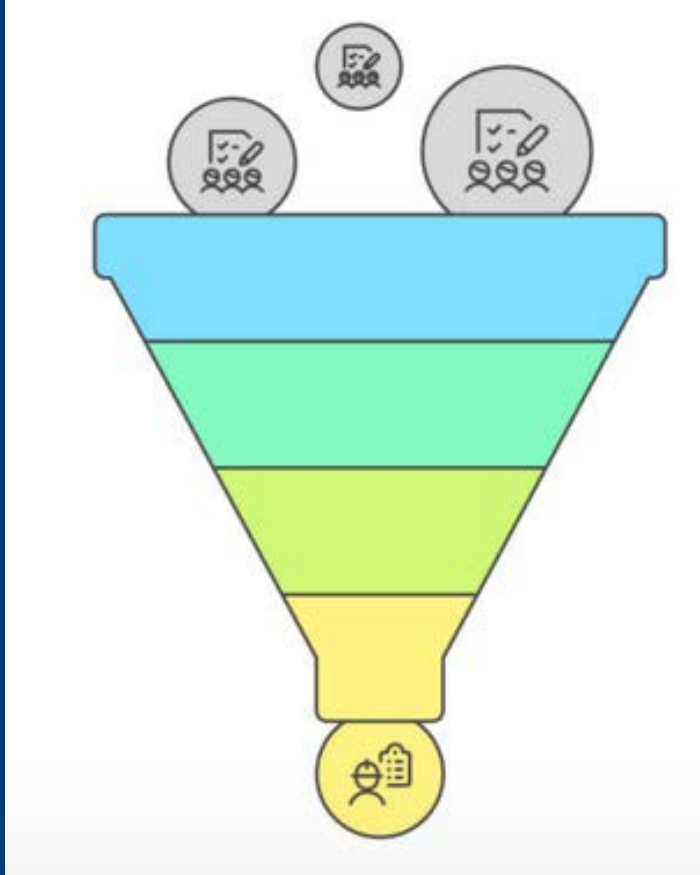


- . Hazard awareness
- . Receive warnings
- . Notify the public
- . Develop a basic plan
- . Prepare a Hazard map
- . Conduct a risk assessment

Not Lowering TsunamiReady Standards - Right Sizing them for the USEC



Seven Right-Size Requirements



TsunamiAware Requirements

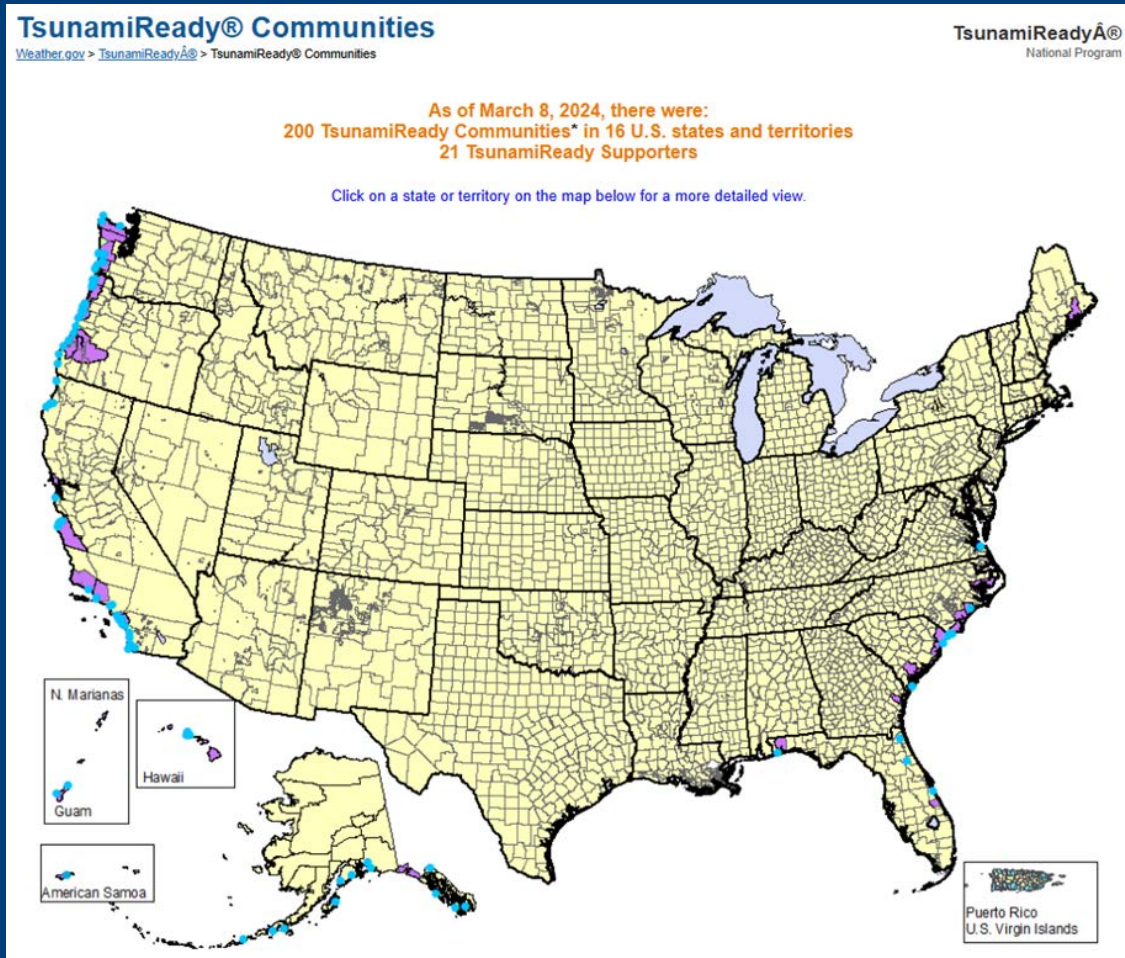
1. Hazard zones mapped (MIT1)
2. Hazard data in mitigation plan (MIT2)
3. Evacuation map posted online (PREP1)
4. Tsunami procedures in EOP (RESP1)
5. EOC activation/support (RESP3)
6. Redundant alert reception systems (RESP4)
7. Redundant public alert dissemination methods (RESP5)

Strategic Plan Alignment



- Theme 1 Hazard & Risk Assessment
Communities Identify Tsunami Hazard Areas
- Theme 2 Education & Preparedness
Communities Build Foundational Tsunami Preparedness
- Theme 4 Alert, Warning & Response
Verified Warning Reception & Dissemination
- Efficient Resource Use
Leverage Existing Federal, State and Local Data and Resources

Why TsunamiAware is Needed

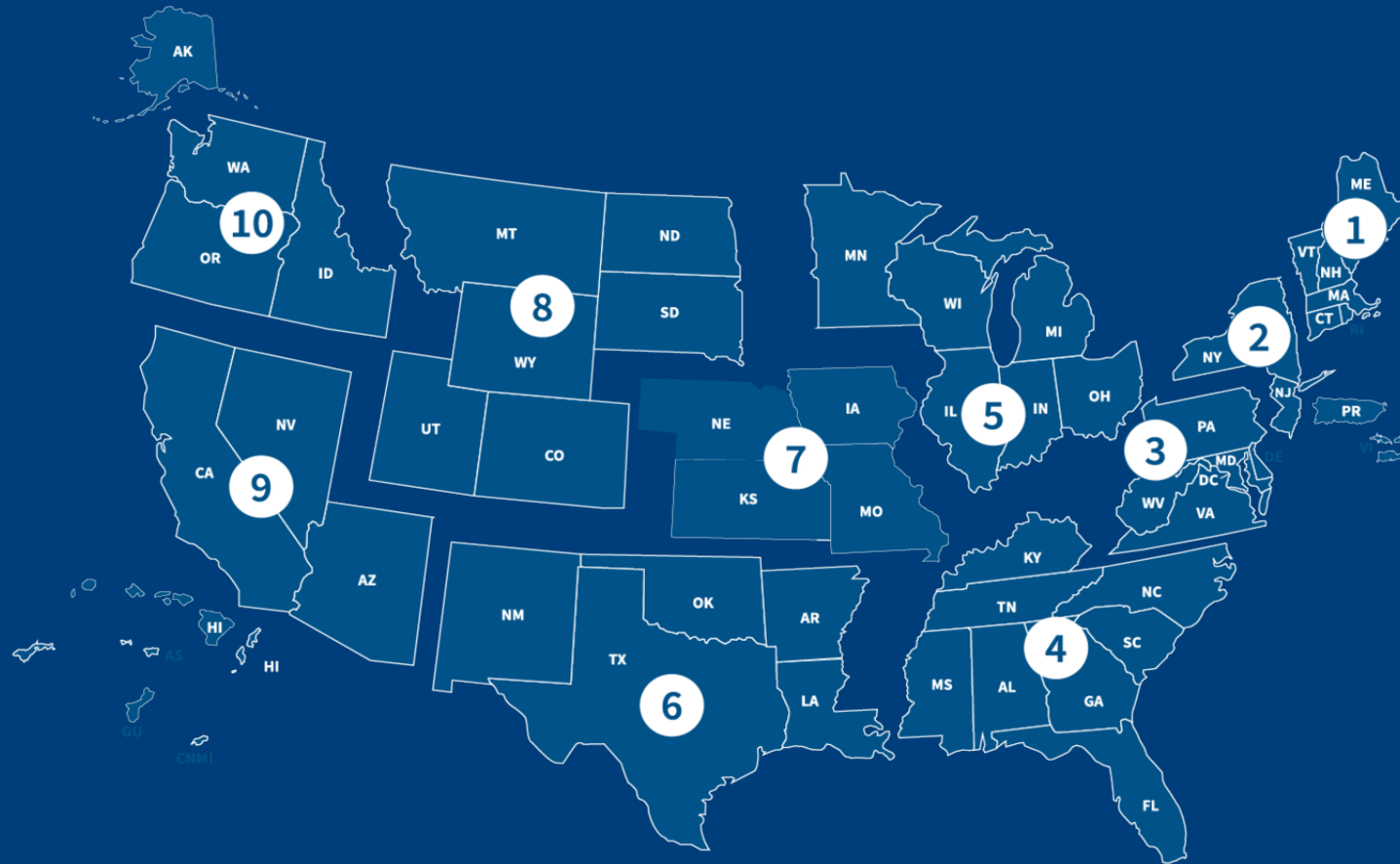


- USEC has only 26 (4%) TsunamiReady Communities
- 96% have no tsunami preparedness designation
- If only 25% of USEC Communities became TsunamiAware - six fold improvement in preparedness
- If 50% participated - order of magnitude improvement

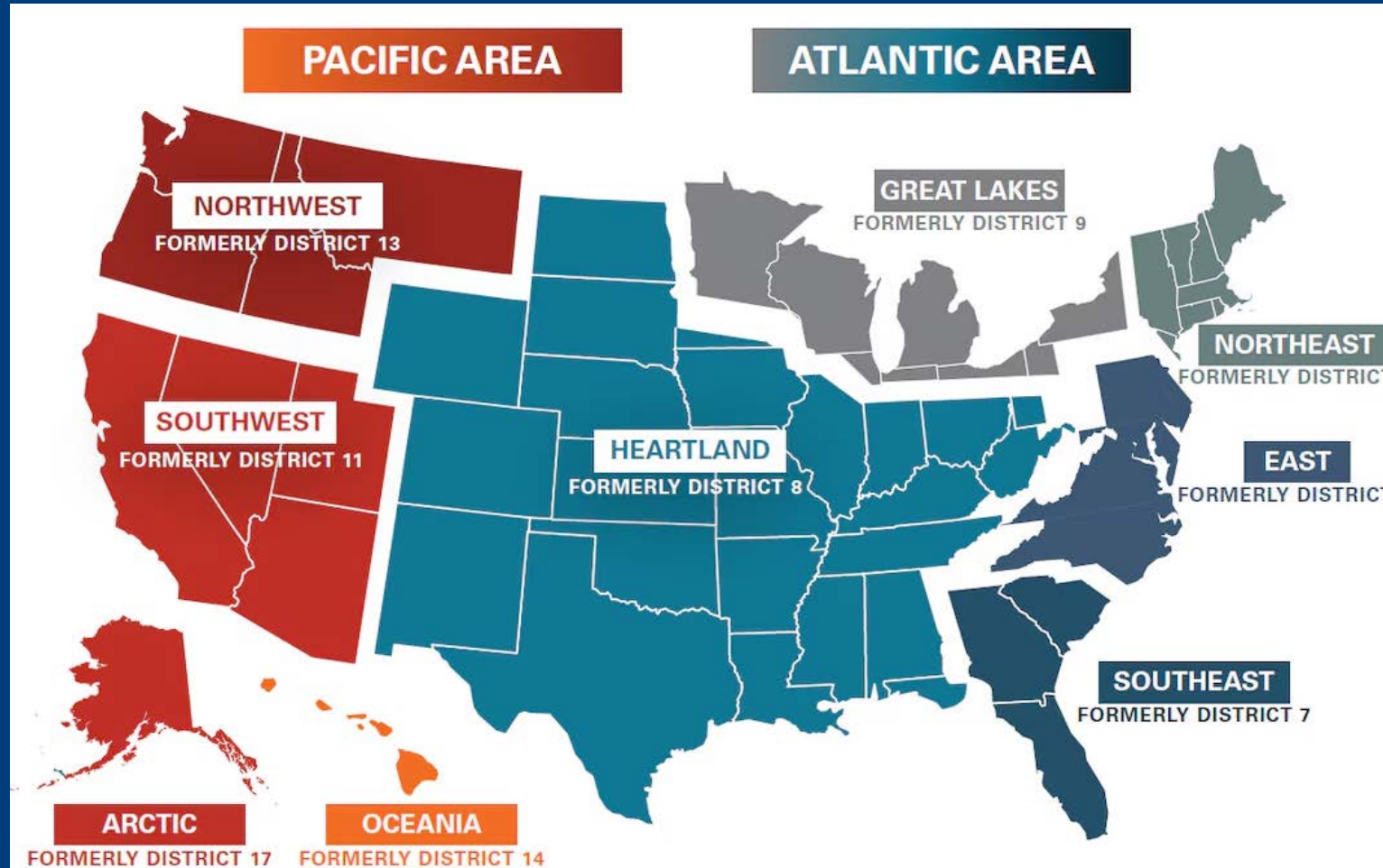
We Need the Regional Weather Forecast Offices to Participate and Encourage Participation of State and Local Emergency Managers



We Need the Regional FEMA Offices to Participate and Encourage Participation of State and Local Emergency Managers



We Need the Regional Coast Guard Offices to Participate and Encourage Participation of State and Local Emergency Managers



TsunamiAware Exponentially Increases Opportunities to Achieve NTHMP Metrics



- Improves Public Safety
- Strengthens the NTHMP
- Demonstrates National Progress
- Justifies Continued Federal Investment

Let's Work Together to Empower USEC Communities to Become TsunamiAware



NTHMP MES Meeting, March 18, 2026

Skylar Suiso, HIEMA; Nick Graehl, CGS; Sarah Rogowski, NOAA; Althea Rizzo, Oregon; Stephanie Ross, USGS; Robert White, BC EMCR; Todd Becker, Cal OES; Stephen Cahill, Guam MES; Mike Lucio, AK DHS&EM; Pat Leisure, NOAA; Regina Browne, VITEMA; Nic Arcos, NOAA; Gregory Schoor, NOAA; Ed Fratto NESEC; Don Leisure, NOAA; Dave Snider, NOAA; Christa VonHilbrandt, NOAA; Ethan Weller, WA EMD; Rebecca Heim, NOAA; Elyssa Tappero WA EMD; Althea Rizzo, OEM; Victor Huerfano, PRSN; Jeremy Agee, AK DHS&EM; Ling Liu, NOAA; Aukusitino Steffany, AS DHS

Caribe Wave 26, Registration on TsunamiZone is over 460k. Scenarios: Cayman Islands source and Kick'em Jenny Volcano. Puerto Rico and USVI are using the volcano scenario.

NTWC coordinating with TsunamiZone for PACIFEX for registration.

ACTION: If you did not receive emails about the exercise, please let someone at NTWC know so you can be added.

Tori Tsunami and Teo Earthquake video launched. Audience visually impaired or deaf children. This resource includes sign language and special effects to make tsunami and earthquake safety information accessible to all, with English and Spanish versions coming soon. This is a collaboration between ITIC and PRSN.

MES on NTHMP Website.

- Sarah R. has been building it out.
- May not be the best place for a “base camp” for document storage.
- Primarily a landing place for MES meeting info/notes and work plans.
- Consider including NTHMP-funded mitigation and education docs would be good, maybe, since those have to be publicly available anyway. Oregon's debris guide, our wayfinding guide, etc. (*comment from E. Tappero*)

ACTION: Call to MES for any resources you may want to have posted. Please share with the MES Co-chairs past documents and/or final products of NTHMP funded work.

MES Meeting in May (in-person):

Request from MES Co-chairs went out for a call for discussion topics. Session will be 60 -min for MES. WA EMD and Island Caucus will have a separate session about hospitality industry session and cruise ship evacuation planning.

Discussion about MES briefings:

- Sarah notes that there may be an option for “NTHMP-wide Brief outs”. Discussion about how this may make the brief-outs to rushed, unless a large chunk of time was dedicated.
- Discussion about how brief outs are beneficial.
- Focus on updates and deeper discussion about topics that are meaningful or how we may have been struggling.
- Need to consider how we structure time.
- It would be good to have examples in the room of materials we have so you can see it more clearly than on a slide. Materials could be shipped to WA office ahead of time.
- Regions should coordinate their MES/MMS/WCS briefings so they don't overlap too much as many will be in attendance
- Overall, it seems that partner briefs are what people want, but maybe they don't need to be mandatory.

ACTION: MES Co-chairs will send out an email to partners to see if they want to submit a brief and how much time you would like to take if available.

We will work at developing at 60-minute agenda for the MES Annual meeting by next week.

MES Co-chair openings:

Todd ends in Nov 2026

Nic ends in January 2027

ACTION: Call for people to fill the State and Federal Position.

For NTHMP Annual meeting:

- Make your hotel reservations if not done already.
- Some meeting room space limitations, they are being worked out.
- Virtual option will be available.
- Other discussion on travel logistics.

ACTION: Please contact Elyssa Tappero if you would like to ship materials to display/distribute at the annual meeting in May.

NTHMP MES Meeting March 18, 2026

Agenda:

- Welcome and Sign In
- MES Partner Announcements
- MES on NTHMP website
- MES at in-person meeting in May
- Next Meeting and Closing

****Please enter your name and affiliation in the chat.**

MES Partner Announcements

- CARIBE WAVE 26 exercise on March 19, 2026
- PACIFEX tsunami exercise on May 5th, 2026
 - Register your on TsunamiZone.org
- **Please use the raise your hand button** if you would like to make an announcement to the group.

***Please enter your name and affiliation in the chat.*

MES on NTHMP website

<https://www.weather.gov/nthmp/SubEducation>

Additional resources you'd like to see? Email co-chairs

Currently:

- Overview of MES
- Meeting Info/Notes
- Work Plans

***Please enter your name and affiliation in the chat.*

MES meeting in May

- Tentatively 60 minutes for MES, *might request 90 minutes*
- Possibly WA EMD and Island Caucus will have a 60-minute session to discuss hospitality industry (including a focus on cruise ship evacuation)
- Options for MES time:

(a) **Partner briefings focusing on one or two selected topics** (i.e., TsunamiReady, WEA outreach, etc.). If so, what topic area(s) would you like addressed?

Alternatively, could have a topics be on any MES prioritized strategies:

- Develop, update, and disseminate consistent outreach materials;
- Promote effective planning for tsunami preparedness response;
- Conduct training and outreach events and campaigns.

(b) **A single topic selected for a 'workshop' type session.** Are you looking to gain feedback and discussion on a specific MES focus area and would like to use the May meeting for it?

If you have an topic you would like considered, please come prepared to discuss it at the March meeting and send the co-chairs an email beforehand.

(c) MES Workplan updates **NEW**

Next Meeting

- Date/Time
 - Week of May 11, 2026
 - In-person in Seattle (*possible virtual component*)

- MES co-chairs openings

Todd ends his 2nd (and last term) at the end of November 2026 (State/Territory)

Nic ends his 2nd (and last term) at the end of January 2027 (Fed)

Please consider this leadership opportunity

NTHMP MES Meeting Notes: July 15, 2026

1) Welcome and Partner Updates.

- CA: Todd introduces Phil Labra new Cal OES EQ and Tsunami Program Manager who replaced Yvette La Duke who retired this Spring.
- WA: Elyssa notes that Taisha has moved from WA EMD to City of Seattle
- B.C: Robert White. April Tsunami Preparedness Week. High Ground Hike. 30 communities including First Nations. ~800 participants. More info here: (<https://www2.gov.bc.ca/gov/content/safety/emergency-management/education-programs-toolkits/high-ground-hike>). Also planning Tsunami Exercise for WTAD, on 11/5
- NTWC: Dave Snider, LANTEX on 11/4. Event off coast of Florida. More info to come.
- CA: Todd, Working on TsunamiReady assessment survey. Next steps to coordinate with WCMs and Regional Cal OES Emergency Services Coordinators. Will share update and processes with MES.
- Guam: Stephen, Working on Tsunami Table Top for end of August.
- Question at end of meeting from WA, Elyssa. Does anyone know where the Tsunami Tent Cards that were once available for order came from? WA would appreciate any leads on these for the Tsunami Hospitality work.

2) Briefing from Sarah Rogowski on the progress of the MES TsunamiReady recommendations.

- Slides shared by Sarah.
- New TsunamiReady Status Map view shared. To be published in near future.
 - Question regarding if an ArcGIS Rest Service would be available.
- WCMs are your first connection for TsunamiReady Community Status and coordination in your regions.

3) Vote on the next MES co-chair

Hold a vote on the next MES co-chair to take Todd Becker's spot in December. We are lucky to have two great candidates! You can find their short bios below.

The vote will be held virtually via a survey/form with a ~24 hour turn around time.

Online voting can better ensure higher participation during summer months, as well as anonymity. [MES Terms of Reference](#) can answer questions on voting.

URL to cast a vote will be provided during the MES meeting on 15 July PT. **Voting will close on 16 July 5pm PT** (8pm ET; 17 July 10am Guam).

Link to Vote on the next MES Co-chair

<https://forms.gle/ztd5c7trzpVLmcKUA>

Candidates for MES co-chair:

Laura Gabel, Oregon Department of Geology and Mineral Industries (DOGAMI)

Laura Gabel is a Registered Geologist with the Oregon Department of Geology and Mineral Industries (DOGAMI). She works to help Oregon communities become more resilient through applied research, outreach, and collaborative partnerships. Laura's research focuses on hazards and risks associated with Cascadia Subduction Zone earthquakes and tsunamis, as well as landslides, coastal erosion and other geomorphic processes. She is passionate about translating technical science into practical solutions that support informed decision-making and strengthen community resilience. She earned a Bachelor of Science in Engineering Science and Mechanics from Penn State University and a Master of Science in Geology from the University of Oregon.

Julie Romig, California Governor's Office of Emergency Services (Cal OES)

Julie Romig is the Research Data Specialist II with the California Tsunami Program at the California Governor's Office of Emergency Services (Cal OES). She operates at the intersection of science, emergency management, and public awareness, translating tsunami and earthquake research into practical tools, maps, plans, and messages that enhance community resilience. Her primary focus is transforming this research into effective tools and plans for disaster preparedness in communities. Her work includes GIS-based hazard analysis, tsunami mapping, evacuation planning, and public information. She is currently developing a GIS tool for county emergency managers to support risk communication and preparedness. She also serves as a Duty Officer for emergency responses. Julie has over 25 years of experience in Geography and GIS. She previously worked at Caltrans and taught at the university level. She holds a Master's in Geography from USC and a Bachelor's in Geological Sciences from the University of Oregon. Julie is interested in the connections between science and human experiences.

NTHMP MES Meeting

July 15, 2026

Agenda:

- Welcome (new attendees?)
- MES Partner Announcements
- TsunamiReady: MES recommendations. Status Report (Sarah R.)
- MES Co-Chair nominations & voting
- Next Meeting and Closing

****Please enter your name and affiliation in the chat.**

MES Partner Announcements

- Please use the raise your hand button if you would like to make an announcement to the group.

***Please enter your name and affiliation in the chat.*

TsunamiReady: MES recommendations

- Status Report by Sarah Rogowski

Background

At the request of the NWS in June 2023, the MES was asked to review the TsunamiReady Program Guidelines and forms and provide recommendations for improvements prior to the next renewal scheduled for November 2024.

An MES work group met regularly between September 2023 and May 2024 to develop these TsunamiReady recommendations. The Final recommendations were submitted July 2024.

Documentation can be found on the MES website:

<https://www.weather.gov/nthmp/SubEducation>

***Please enter your name and affiliation in the chat.*

MES co-chair nominations (State/Territory)

- ***Laura Gabel, Oregon Department of Geology and Mineral Industries (DOGAMI)***
Laura Gabel is a Registered Geologist with the Oregon Department of Geology and Mineral Industries (DOGAMI). She works to help Oregon communities become more resilient through applied research, outreach, and collaborative partnerships. Laura's research focuses on hazards and risks associated with Cascadia Subduction Zone earthquakes and tsunamis, as well as landslides, coastal erosion and other geomorphic processes. She is passionate about translating technical science into practical solutions that support informed decision-making and strengthen community resilience. She earned a Bachelor of Science in Engineering Science and Mechanics from Penn State University and a Master of Science in Geology from the University of Oregon.
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****Bios sent to MES via email on 07 July***

MES co-chair nominations (State/Territory)

- Voting is now open at: <https://forms.gle/ztd5c7trzpVLmcKUA>
 - *Email will be sent with link following the meeting*
- Voting will close on 16 July 5pm PT (8pm ET; 17 July 10am Guam).

Who can vote?

Only MES Coordinating Committee Members may vote on an activity (e.g., new Chairperson) requiring a vote. MES Coordinating Committee Members are defined as the 12 state/territory emergency management representatives, though a Coordinating Committee Member may delegate their voting power. Only one vote per State or Territory is permitted. FEMA and NOAA are each permitted a single vote. The federal representative that is an active co-chair will occupy one of those voting positions by default. As a result, in total there may be 14 votes for an activity requiring a vote. A quorum for a vote is defined as greater than 50% of voting members.” (*MES Terms of Reference, 2025*)

MES co-chair nominations (State/Territory)

- Once voting is finalized, the nominee must be **approved by a majority of the NTHMP Coordinating Committee** (at the next CC meeting).
- Once approved, the new MES Co-chair will begin their 3-year term in **December 2026**.

Note: MES co-chair opening for Federal spot is open in February 2027.

Next Meeting

- Date/Time
 - 16 September

- MES co-chairs openings

Nic ends his 2nd (and last term) at the end of January 2027 (Fed)

Please consider this leadership opportunity