NTHMP MES Work Plan 2022-2023

Work Plan Activity # 2 update, April 2023, by Todd Becker, Cal OES

Background:

As an activity for the 2022-2023 NTHMP MES Work Plan, the Expansion of TsunamiReady® to support and/or encourage the recognition for maritime communities such as ports and harbors was proposed by California.

The action steps and milestones listed for this activity included plans to meet with NWS to discuss support for pursuing TsunamiReady® expansion for maritime communities and developing list of future steps to support this expansion.

Outcomes:

California provided an overview of the work plan activity with NTHMP members for discussion at the 2023 NTHMP Winter Meeting during the MES sessions.

Discussion and input from NTHMP partners indicated that there was not a need to develop a new Tier or Category of TsunamiReady® specifically for maritime, but that more could be done to work with the "Maritime Communities" within the existing TsunamiReady® Communities where the ports or harbors are located and to also consider using the TsunamiReady Supporter® category.

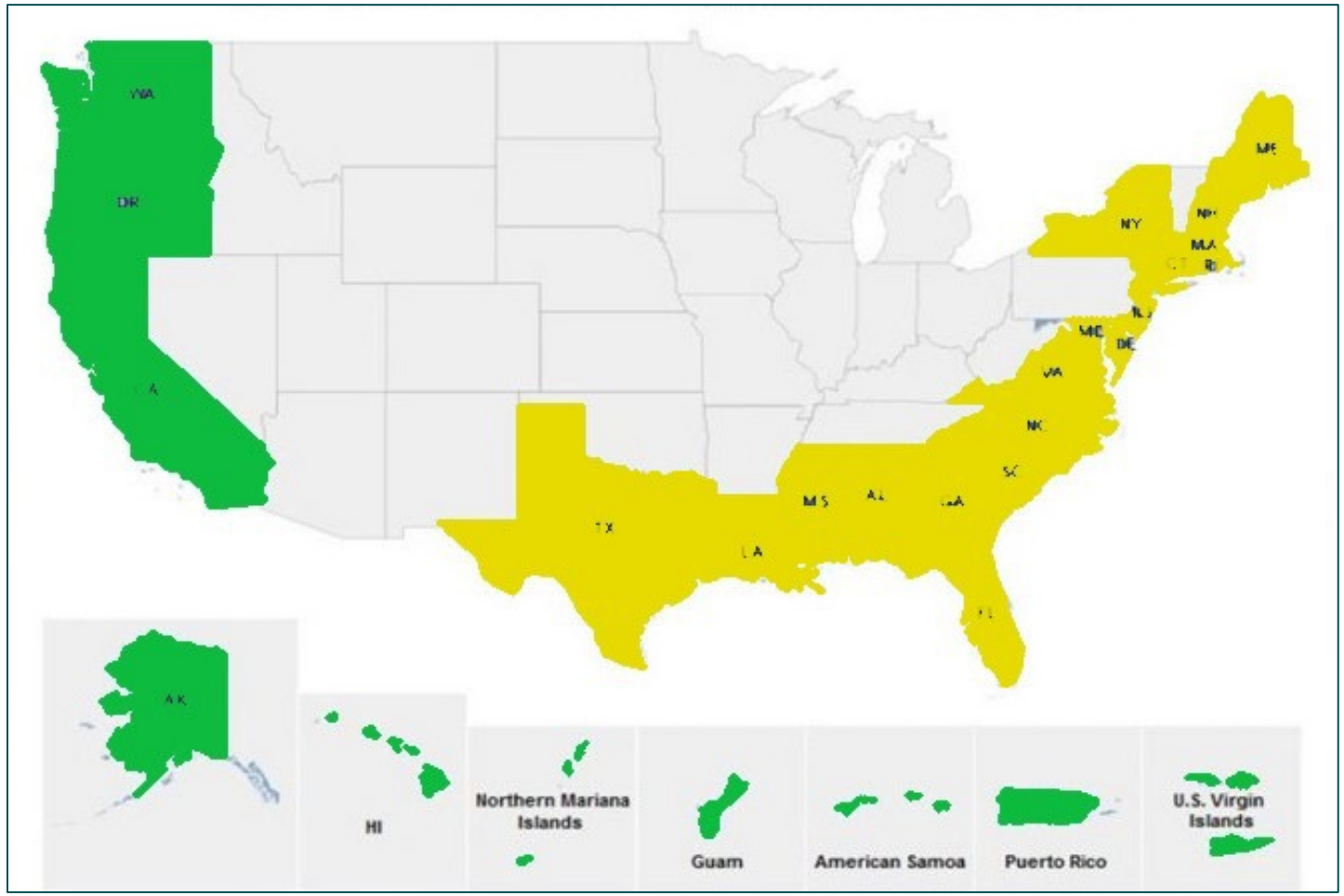
California initially intended to include some language in their FY 2023 Grant proposal to pursue the TsunamiReady® expansion for Maritime Communities. Based on the discussions and feedback from NTHMP, California has decided not to pursue the expansion of existing TsunamiReady® program. Alternatively, California is proposing activities to enhance efforts that target outreach and tsunami planning gaps with Maritime Communities using the existing TsunamiReady® program guidelines in addition to Maritime Related Options and Strategies available on the Tsunami Maritime Guidance Website (tsunamizone.org/maritime). These guidelines are unofficial guidance and recommendations to developed by California to supplement TsunamiReady® for Maritime Communities and are not officially endorsed or required by the National Weather Service for TsunamiReady® program.

California will coordinate and partner with the NWS Warning Coordination Meteorologists to potentially recognize participating maritime communities as TsunamiReady®. Participating communities could be considered for inclusion as a TsunamiReady® Supporter or in city or county TsunamiReady® recognition. This may depend on if the port or harbor is an independent, quasi-governmental, or city/county-associated jurisdiction.

California will share the results of the efforts with the NTHMP.

MES Activity # 3 Update
Hazus Tsunami Expansion

Current States & Territories with FEMA Hazus Tsunami Availability [1]

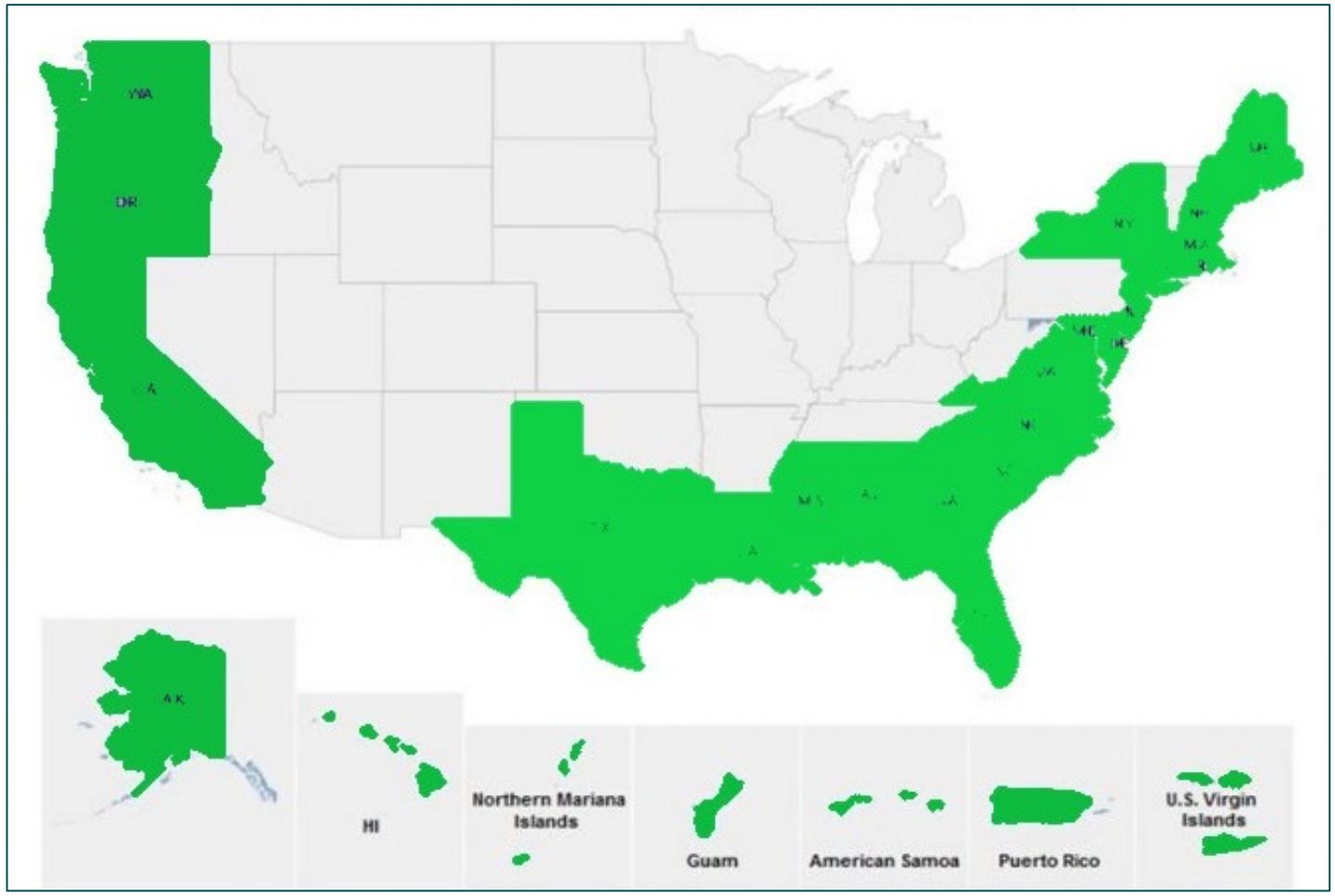


[1] Source: FEMA Hazus Tsunami Model Technical Manual, July 2022

MES Activity # 3 Update
Hazus Tsunami Expansion

GOAL: To Expand Hazus Tsunami All Coastal States & Territories

Achieving Uniform Tsunami Risk Assessment For All



Source: FEMA Hazus Tsunami Model Technical Manual, July 2022

MES Activity # 3 Update
Hazus Tsunami Expansion

ACTION: Propose That MES Meet With FEMA and Discuss

MES Activity # 3 Update
Hazus Tsunami Expansion

ACTION: Finalize NTHMP Agenda Discussion Points, Share with FEMA, Set Meeting Date

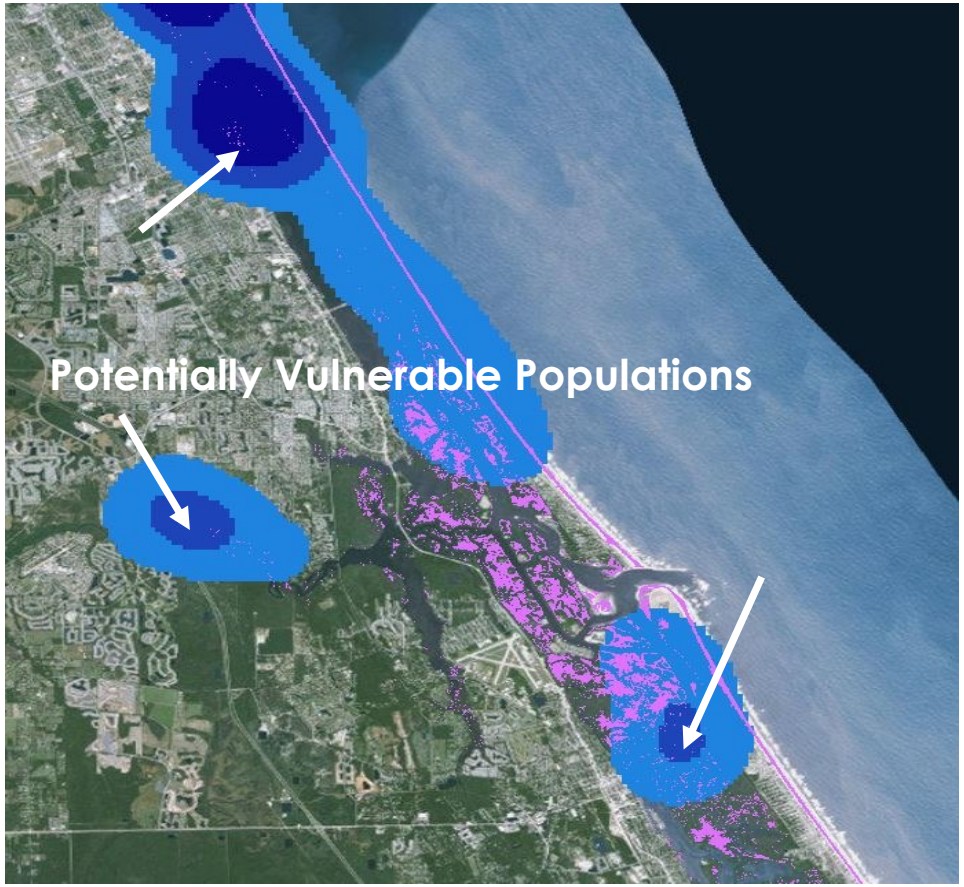
NTHMP HAZUS AGENDA DISCUSSION POINTS

- Possible expansion of Hazus to all coastal states and territories
- Possible development of Hazus maritime loss capability
- Alaska: Hazus inventory issues
- Poll MES and MMS for any other issues to be added and share with FEMA

MES Activity # 4 Update

Method (Guide) for Using Hazus to Identify Potentially Tsunami Vulnerable Populations

Social Vulnerability Analysis Using Hazus Tsunami



MES Activity # 4 Update

Method for Using Hazus to Identify Potentially Tsunami Vulnerable Populations

UPDATED REVIEW DRAFT FOR INTERNAL USE ONLY

Social Vulnerability Analysis Using Hazus Tsunami

A Picture Illustrating the Concepts of Equality, Equity and Justice. Courtesy Advancing Equity and Inclusion: A guide for municipalities, City for All Women Initiative (CAWI), Ottawa

Scholars have long acknowledged that risk and vulnerability are not indiscriminately distributed in disasters, nor are pre-existing systems of stratification eliminated (Couch and Kroll-Smith 1985; Morrow 1997; Fordham 1999)[1]. They have also found that vulnerability may be increased due to factors such as a person's age, gender, social class, disability status, race, and ethnicity. This applies to all hazards, natural, man-caused and pandemic, but can be especially true for little or no notice events such as tsunamis and earthquakes allowing very little or no time to immediately prepare. Population characteristics are an important indicator with the socially vulnerable "more likely to die in a disaster event and less likely to recover after one" (Juntunen 2005)[2].

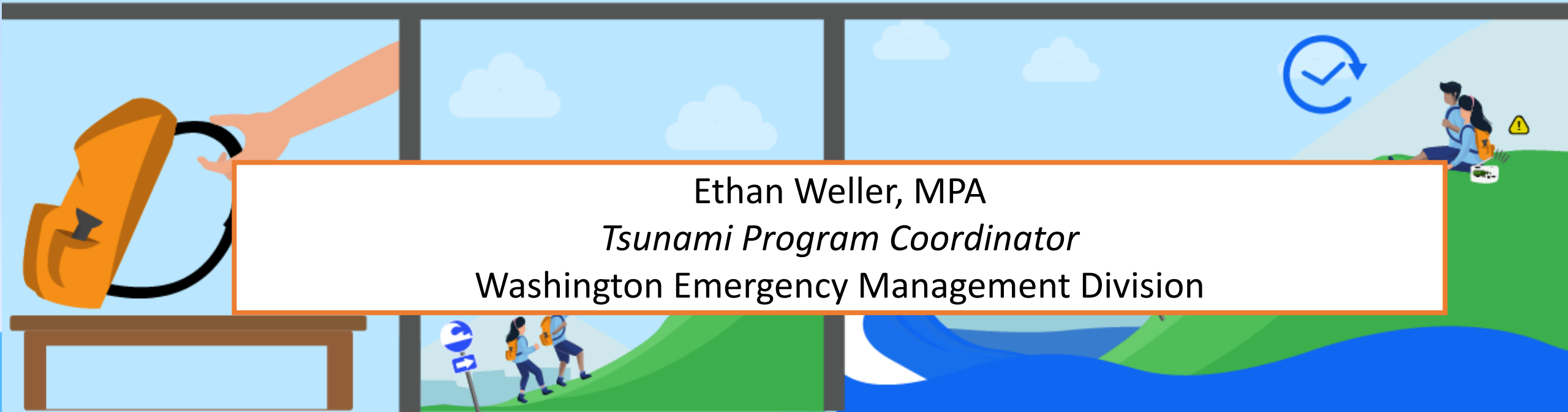
[1] Gooden, S., Jones, D., Martin, K. J., & Boyd, M. (2009). Social equity in local emergency management planning. State & Local Government Review

[2] Flanagan, Barry E.; Gregory, Edward W.; Hallisey, Elaine J.; Heitgerd, Janet L.; and Lewis, Brian (2011) "A Social Vulnerability Index for Disaster Management," Journal of Homeland Security and Emergency Management: Vol. 8: Iss. 1, Article 3.

1

- **DRAFT Guide has been updated incorporating comments and recommendations from MES Co-Chairs.**
- **Includes new introductory section, enhanced graphics, GIS maps, etc.**
- **Since this involves other sub-committees and the NTHMP partners at large MES Co-Chairs may bring this to discussion at the April 13th monthly sub-committee chair meetings held with Ian.**
- **Co-Chairs may seek possible further distribution to NTHMP and FEMA for their feedback.**

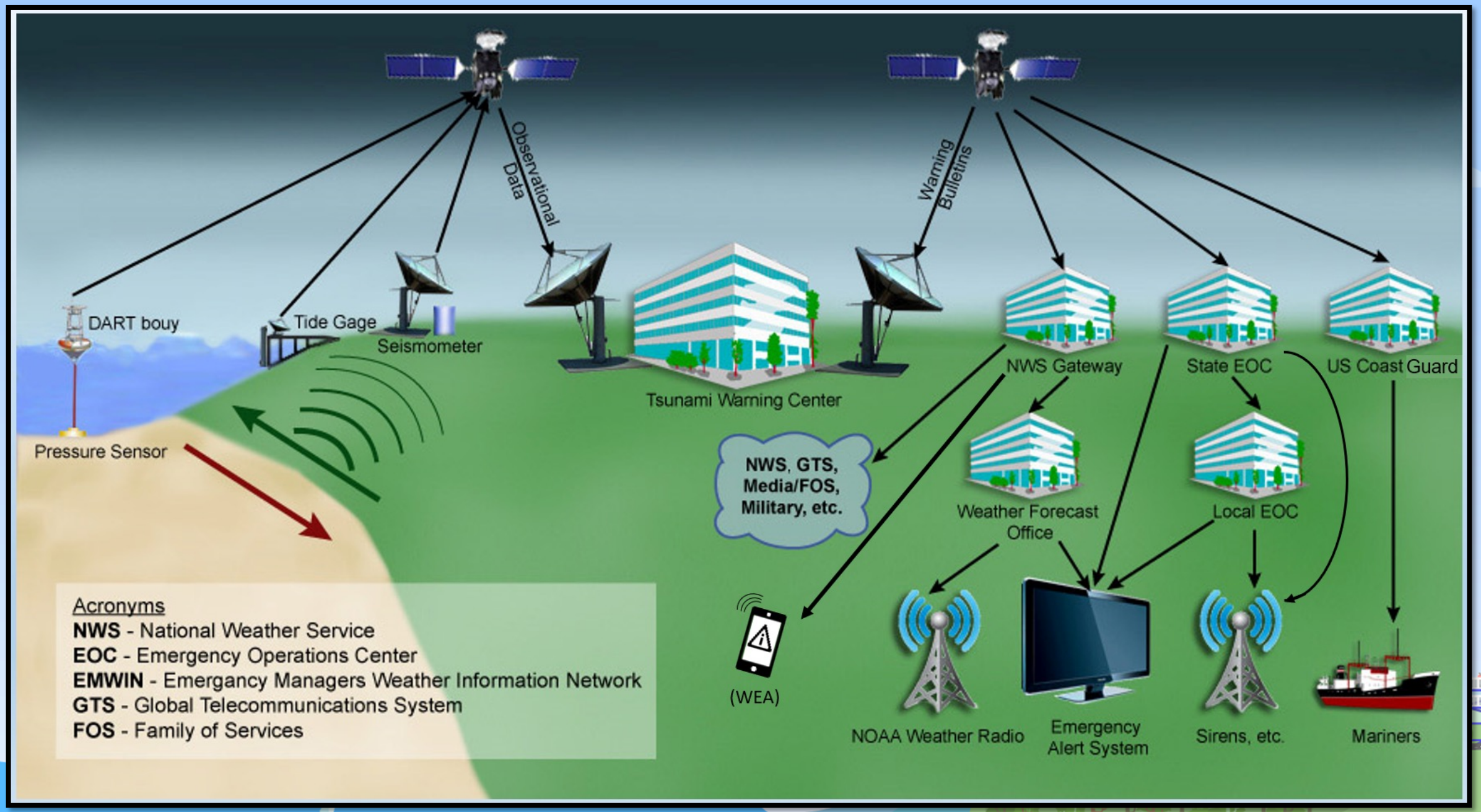
State/Territory Tsunami Alerting and Response Timeline Creation



Ethan Weller, MPA
Tsunami Program Coordinator
Washington Emergency Management Division

Introduction

- NWS is in the process of deciding whether to keep the “advisory” level alerts for tsunami incidents, but they need your help
- **Goal of the project** is to document a **detailed top-down step-by-step timeline** covering alert dissemination processes and procedures within each state and territory with tsunami risk
- This project will **help your state/territory in numerous ways**
  - Documents roles and responsibilities which **reduces confusion amongst partner agencies** and makes it **easier to identify gaps and needs** in alert and warning at every level of alert dissemination
  - Creates a shared space to **access relevant alert and warning links and resources**
  - Ensures a **shared understanding** across the state of alert processes and procedures
  - Improves alert and warning capabilities and **saves lives**


Observational Data
Warning Bulletins
DART bouy
Tide Gage
Seismometer
Tsunami Warning Center
NWS Gateway
State EOC
US Coast Guard
Pressure Sensor
NWS, GTS, Media/FOS, Military, etc.
Weather Forecast Office
Local EOC
(WEA)
NOAA Weather Radio
Emergency Alert System
Sirens, etc.
Mariners
Acronyms
NWS - National Weather Service
EOC - Emergency Operations Center
EMWIN - Emergancy Managers Weather Information Network
GTS - Global Telecommunications System
FOS - Family of Services

Tsunami Timeline Components

- **Tsunami roles and responsibilities for local, state, and federal agencies**
- **Tsunami alerting**
  - Tsunami alerting overview, tsunami bulletins, etc
  - Alert dissemination responsibilities
  - Alert methods and systems
  - AHAB tsunami sirens
  - Alerting limitations in the inner coast
- **Detailed step-by-step alert and dissemination processes from Federal level to public**
- **Partner contact info and resource links**
  - WA EMD, WGS, NTWC, NWS Seattle and Portland, county and tribal EMs
- **Appendices** (documentation from WA EMD, NTWC, and NWS)

Tsunami Timeline Next Steps

- **NTWC Partner Timeline Kickoff Meeting on April 27th @ 10:00 AM PT**
  - **Invite alerting and response personnel in your state or territory**

- **PTWC Partner Doodle Poll going out soon for a meeting in May**
  - **Template for PTWC Alerting Timelines currently in progress**
  - **Start gathering alert and warning materials**
  - **Think about which stakeholders you want at the table**

Ethan Weller, MPA

Tsunami Program Coordinator

Washington Emergency Management Division

Ethan.weller@mil.wa.gov

253-512-7146

Mon-Thurs 0700-1730

Ian Sears

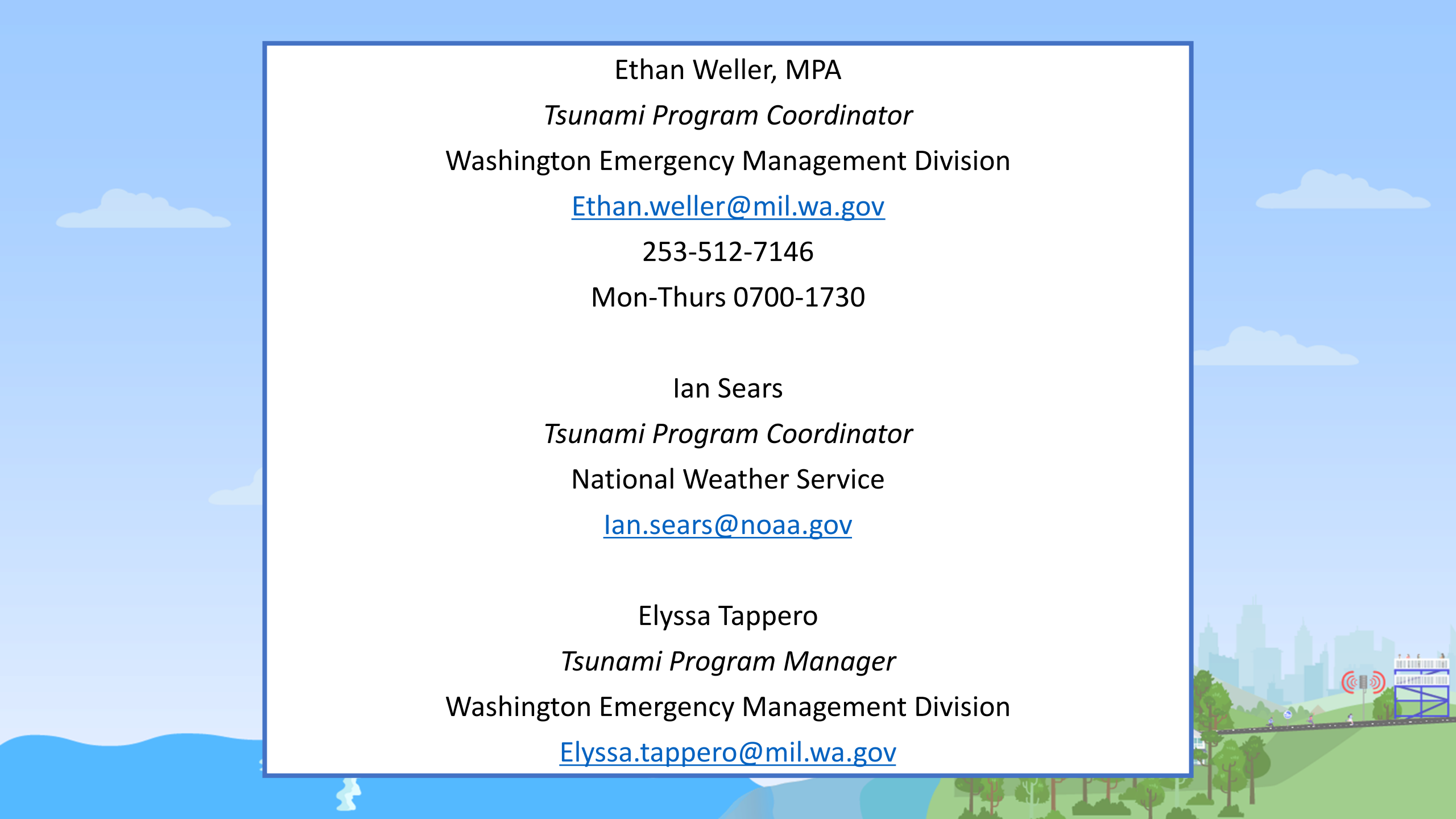
Tsunami Program Coordinator

National Weather Service

Ian.sears@noaa.gov

Elyssa Tappero

Tsunami Program Manager

Washington Emergency Management Division

Elyssa.tappero@mil.wa.gov