

NTHMP Summer Meeting – MES Session Notes 7/18/2022

Attendees:

Regina Browne, VITEMA; Nic Arcos, NCEI; Todd Becker, Cal OES; Mark Benthien, SCEC/TsunamiZone; Dante DiSabatino, WA EMD; Elyssa Tappero - WA EMD; Yvette LaDuke, Cal OES; Matt Palmer, Cal OES; Maximillian Dixon, WA EMD; Carrie Garrison-Laney, WA Sea Grant/PMEL; Lauren Schambach, MITRE; Dave Snider, NTWC; Dave Kochevar, NWS Alaska Region; Jeff Lorens, NWS Western Region; Ryan Sandler, NWS Medford OR; Kara Jacobacci, FEMA Region 10; Vanu Aiumu, AS DHS/TEMCO; Denille Calvo, GHS/OCD; Jack Diaz CNMI HSEM; Mario Kaipat, CNMI HSEM; Joey Dela Cruz, CNMI HSEM; Christa von Hillebrandt-Andrade, NOAA ITIC; Nic Graehl, CGS; Julie Fujimoto, HIEMA; Kyn Hoang, Cal OES; Amanda Broad, BC CA; Althea Rizzo , Oregon OEM; Ed Fratto , Northeast States Emergency Consortium; Mike Mahoney, FEMA HQ; Jackie Bott, CGS; Wildomaris Gonzalez, Puerto Rico; Katie Nguyen, NWS SRH Tropical, Marine, Tsunami Program; Chris Birchfield, NOAA;

1. Welcome and Introductions
2. NTHMP Strategic Plan and Ocean Decade

Links to Slides:

https://drive.google.com/file/d/1JcvwIWkfvAFA151m519fm75uEtXx_Pwq/view?usp=sharing

<https://drive.google.com/file/d/1dZ585qOEUxI2a5CFKSapLH0kgXyVDXs/view?usp=sharing>

Current Strategic Plan goes 2018-2023, on NTHMP website. Plan has Four strategic themes go across subcommittees. As we move forward, more focused needed on ‘underserved’ communities. (Todd)

Ocean Decade Tsunami Programme. Established by UN General Assembly 2021-2030. Seven major societal outcomes established. #5 is “Safe Ocean”, the most directly related to NTHMP work. Ocean Decade Tsunami Programme: ‘Seeking Major Advances in Science and Preparedness’. Tsunami Ready recognition program is accepted by Ocean Decade Tsunami Programme. It is based on U.S. NWS TsunamiReady program. Mitigation not addressed in same manner as U.S. program. Information on Tsunami Ready programme is on ITIC website. Materials to be translated in future. Do best practices exist from UN programme, particularly on equity? Examples of best practices in infrastructure (i.e., typhoon evac structures in India) and conch shells for alerting. Social media like WhatsApp as critical in many countries. Is there international oversight and resources? Within UNESCO/IOC, each country has TNC and helps coordinate as well as TICs. How will U.S. be doing this (i.e., U.S. program or UN programme?)? Existing

programs will be 'grandfathered' into international programme. Do these programs deal with at-sea communities (e.g., house boats etc.) (Christa)
FEMA has program "Building Resilient Infrastructure and Communities", 1 billion dollars in funding available this year. (Mike M)

3. Social Media Workshop

Link to slides:

https://drive.google.com/file/d/1oD7sejSDyJJOUumoQecmu1Oj_4sO-lWo/view?usp=sharing

WA State Tsunami Canned Messaging Project. Share lessons learned from social media and interacting with community, particularly from Tonga event. WA under Advisory for Tonga event. First time since 2018 that WA was under an alert. Utilized a Twitter account (WaShakeOut) that wasn't as strictly managed by State agency to get messages out more quickly and interacting directly with users. Analytics helpful to see reactions. Learned that need canned messages or products (e.g., videos, GIFs, etc.), to avoid creating on the spot, and sharing with partners. Alt Text important to include. Translation is to be done next. Hashtags were not as included as should/could be. Do colors used on infographics consider the color blind? Yes, efforts are made. On canned messages, include the direct links to original messages or user. Canva is a resource that could be used, but requires payment. Buffer is another program for scheduling and organizing posts across platforms. Goal is to amplify the consistent messaging. (WA EMD)

4. Utilizing HAZUS Data and Platform

Links to slides:

<https://drive.google.com/file/d/1KFhNeGgmL50e33bYjIE7uNXufNOHgjCC/view?usp=sharing>

https://drive.google.com/file/d/18w4qXVILvkXqvM_cgeqk9EblTtdHPnOw/view?usp=sharing

- a. Hazus Tsunami is not available for U.S. East Coast. MMS has developed inundation maps for East Coast, which is now in NOAA Coastal Flood Exposure Mapper tool. Data from Hazus used is flood for: population, exposure and Critical/Essential Facilities. Since no Hazus, doing a manual GIS effort. Using Census tract data to identify vulnerable population. Potential for collaboration with MMS. Among challenge is census data is out of date (2010). (US East Coast States)

- b. Hazus Earthquake and Tsunami Impact Analysis for WA State.

Motivation is first Hazus run for WA to provide building damage and casualty estimates. Deliverables include methods document, user guide, database of buildings in tsunami zone, results summary, tsunami casualty spreadsheets per county. Needed to update building data. Consideration of building data constraints (e.g., inaccurate locations, etc.) was important to consider. Modeling assumptions include high building occupancy, nearly all people in tsunami zone will be displaced, bed capacity estimates for facilities like assisted living facilities. 2020 Census data included. Most high-risk areas have no access to natural high ground, so vertical evacuation structures needed. Casualty model assumes best case scenarios such as well-lit routes, clear of obstructions, evacuation departure times. Updating data was critical, almost half buildings moved and population increased by +40%. Is this impacting vertical evacuation structures plans? Capacity yes but not placement. How is damage of building determined? Hazus model uses fragility curve. (WA EMD)

c. California Tsunami Program Hazus Tsunami Project.

Provided outputs but made changes to improve the usefulness of Hazus standard outputs. Need to keep in mind Hazus is continuously being improved, must recognize existing flaws. Found can't use L1 and L3 data at same time, as it provides too many inconsistencies. Like WA, discovered significant quality issues with building inventory database. Maritime losses (e.g., ports, harbors, etc.) not included in Hazus. (Cal OES)

5. Tsunami Zone

Link to slides:

https://drive.google.com/file/d/1_xQ0f1ReBpE_eaNfS4PqRtPPEoFImOli/view?usp=sharing

Currently ten Tsunami Zone regions, potentially expand to include American Samoa. Goal/mission is for everyone to know what to do in event of a tsunami. Website includes information for communications and activities. Registration statistics can be exported. If interested in a page for region or exercise contact Mark Benthien. (SCEC/TsunamiZone)

6. Partner Sharing

Link to slides:

<https://drive.google.com/file/d/1eWKQqg5QtWO7nDjG4ZzyCBL0M4-F-x02/view?usp=sharing>

Lightning presentations from NTHMP partners highlighting recent and planned efforts throughout the regions.

7. MES Work Plan Discussion

Additional work to follow at upcoming MES meetings to identify realistic MES tasks. Need to identify activities that align with partner planned grant activities for resource and time allocation.



MES July 2022 Summer meeting (photo by Christa von Hillebrandt-Andrade)