

MES Strategic Planning Notes

Initial Discussion

- Each subcommittee will review the outcomes
- Develop list of completed, modified and activities to move forward
- Need to develop next Strategic plan for 2018-22
- Reword/reorganize it to make it clearer
- Get prepared for voicing ideas on Friday

Joint MMS/MES Meeting notes

MES issues/questions

What are people looking for out of this meeting?

- Further discussion of how we organize information we are creating
- Input from MES about emergency managers customer needs, MMS product needs and are we meeting those?
- How to engage our allied customers who rely on our data (Coast Guard etc.)
- Input on current MMS priorities, what they are
- Plan on continued collaboration among MMS/MES subcommittees and ongoing communication
- Input from EM's in respect to modeling and what kind of products
- Make sure that the MMS initiatives include the specific problems that Pacific islands have
- What help does the MMS need from the MES?
- How we as the whole program can reach out to planners, coast guard, engineers, those that are involve with mitigation (additional allied customers)

This is the only federally sponsored group that brings scientists and emergency managers together to discuss issues.

What does MES need from MMS?

- Excel summary table of tsunami modeling used by each state/territory
 - Name of model
 - Why it's used
 - What the model does and doesn't do
- Looking for a list of modeling to inform new managers and how what each modeling is good for: harbors, deep water, pedestrian evacuation etc.
- Each modeler is more familiar with the model they use
- Good to have write-ups and justifications to compare
- Non MMS members/modelers don't know which models are available
- Some having difficulty getting modelers (Island Territories)
- Useful for doing ensemble modeling
- First benchmarking for tsunami models happened in 2011, 2nd benchmarking happened January 30 2017
- Currently there is a report being written on a workshop from last year on tsunami sources
- Putting together tsunami source database (MMS subcommittee)

- Tsunami models tend to be conservative, waiting for guidance from USGS
- Include a brief description on how each model has been used

Are people getting their coastlines mapped quickly enough, according to priority?

- Mapping is a reiterative process that moves with the improvement of the science
- Always new science being introduced, such as ASCE 7-6
- Struggling with new ASCE 7-6 tsunami modeling guidelines/approach vs existing modeling
- No end to modeling due to science continually getting better
- Would be good to coordinate between states/territories so we all understand the issues (i.e. ASCE 7-6)
- Some island territories have PMEL do their inundation mapping

Do you have the data you need?

- Need DEM's and good data
- Need to expand expertise to include USGS to provide better and more comprehensive data
- Need better data on sources in some areas
- Need non-bare earth DEM modeling

Was pace of mapping (33%) over 5 years for initial inundation mapping appropriate?

- Yes?

Are state/territory needs being addressed?

- Meteorite tsunami modeling
- Volcanic sources of tsunamis
- More focus on ports/harbor modeling efforts and impacts/preparedness/mitigation
 - Being able to explain to the public the guidance and modeling
 - Talking points
- Modeling for vertical evacuation structures (Long Beach Berm), need clarity and easily comparable/explainable info to present to the public/local stakeholders
 - Talking points
 - Develop a list of questions
- NTHMP provide insight on tsunami pods to help give emergency managers guidance on addressing this issue
- Change in bathymetry in shipping/water channels
- Question from land-use planners and responders: where will the new shoreline be post-earthquake/tsunami?
- Where debris will go, impacts

MMS issues/questions

- Evacuation modeling, Nate Wood and other approaches
 - The states/territories that are doing this could provide others with
 - Complex

- Need social science research on effective messaging to develop guides/talking points/standardized messaging
- Cars vs walking
- Functional and access needs individuals
- Secondary hazards blocking evacuation routes
- Compare options for evacuation modeling to better address EM/local stakeholder needs
- Helpful to share project ideas among states/territories before the application round?
- More current modeling for sediment movement/impacts to shipping lanes, what are the Coast Guard needs? Recovery, response issues etc.
- MES Marine Guidance is being developed, very useful, continue support for fleshing this out
- USACE missing from NTHMP, complex due to the way they are structured

Product sharing

- Need a repository for products, i.e. evacuation modeling
 - Basecamp?
 - MMS has a web page with links on it
 - Coastal Flood Exposure mapper tool
 - Internal sharing of products via repository that is not public facing
 - Define clear scope for sharing
 - Program Management
 - Public
 - Internal partner sharing
 - External partner sharing
 - Potential for collaboration within NOAA to provide mapping/product sharing
 - Concerns: putting evacuation maps into warning process could take the mapping control out of the hands of the NTHMP partners/EM's, need to have state/territory partners make the decisions on mapping at the local level and not at the NTHMP level, don't want to restrict partners from being able to easily update their data/products by having a central repository
 - Hurricane evacuation maps are made available after being vetted by local/state/federal partners, process that works, they have different evacuation zones/maps for each category level
 - Tview will be only adding publicly available tsunami inundation, EM's/stakeholders will be trained on how to use it and playbooks could be added if wanted/needed
 - Do EM's want modeling on sand/storm surge impacts, i.e. erosion? MMS wants EM input on this.

NTHMP Strategic Plan

Overall milestones

- Carry forward "The NTHMP's Subcommittees will be strengthened and supported by the NTHMP CC to execute the activities contained within this plan. Sub-committees will meet periodically to address assigned actions as other Coordinating Committee actions as required"
- Want to find measurables other than TsunamiReady, something to help this would be an assessment determining the number of tsunami threatened communities in the U.S.
- **Rocky will send a list of state/territories tsunami ready eligible communities to each state/territory

- Who decides what a "community" means? Use the definition in TsunamiReady and up to the state/territory on which communities to include

How have both subcommittees met their milestones?

- Completed
- Modified
- Activities to move forward

MES

- Modify "Develop guidelines for mitigation, preparedness and education programs..."
- OLD strategic plan with outdated milestone dates?
- Need to update strategic plan from notes/find current version of the MES strategic plan and revisit it

MMS

- See slideshow from Dmitry/AK for details
- "All NTHMP-funded inundation modeling results available to the public..." work in progress.
- "Develop inundation maps for all communities with high tsunami hazard as defined by state tsunami programs" work in progress.
- "Develop prototype maritime products for one community within each high tsunami hazard state/territory by the end of 2015" work in progress.
- "...develop maritime products for 25% of threatened communities within each high tsunami hazard state/territory by the end of 2017" depends on progress with supporting activities and is a work in progress.

Crosscutting projects

- MES/MMS guidelines separated and put onto the NTHMP web site
- How To Evacuation Modeling update from Nate Wood, pedestrian guidance document has had more input from MMS than MES
- Maritime Guidance, document reviewed in late 2016, still being developed, looking at preparedness response measures, then look into mitigation and recovery

Pedestrian Evacuation

- Nate Wood is looking for input from states/territories, such as what to research next
 - Secondary hazards (i.e. landslides) that can block/impact evacuation routes
 - Modeling showing car evacuation vs on foot (local and distant sources)
 - Evacuation modeling, add realism to Safe Haven Project
 - Any way to validate modeling by conducting drills in communities?
 - Products that are visual and easy for EM's/Public to understand and present