

MMS Agenda

Morning Session (10:15am-12:00pm)

1. Welcome (5-10 min)

2. Updates
 - a. **Powell Center; Stephanie Ross, Jay Patton, Rick Wilson (20 minutes + 5 min for Q/A)**
 - i Powell Center overview of facility and funding
 - ii WG on tsunami sources:
 - 1 Past meetings: Alaska, Caribe/Gulf/East; Cascadia, Pac sources March 2023
 - 2 Future meetings: #6, Crustal faults and where do we go from here: ID gaps, Jan 8-12 2024. Seeking recommendations for additional experts who should be involved.
 - 3 Potential to add volcano and/or non-seismic sources as meetings in later 2024, get work leveraged by outside funding (e.g. NEHRP)
 - 4 ASCE using Powell Center updates of tsunami design for the IBC.
 - 5 NTHMP needs/uses of PTHA: community sources in regions and nationally.
 - a allow appropriate hazard levels to be used. “performance based” approach for land use
 - b Provides offshore hazard curve to improve inundation modeling
 - c ASCE. 7-16 Tsunami design maps can be updated
 - d Improve understanding of recurrence and uncertainties of worst-case or max tsunami scenarios
 - e Aligns with hazard levels with engineering and other hazards
 - f CA case study: users fed and state for planning, risks assessment and local building codes. Community level (planning)
 - 6 PTHA needs more complete documentation/education for stakeholders (“black box”)
 - 7 **Assessment of PTHA and deterministic map/source needed** PR in process possible test bed to assess PTHA.
 - 8 **Bring PTHA group to MMS to present and work on black box issue**
 - 9 Patton: [link to presentation](#)
 - a PTHA and logic trees overview, using Cascadia as example

b Summary of PTHA approach in Practice using Powell Center meeting

b. NCEI DEM Development update (15 min)

1. NTHMP DEMs:

- a. Central area completed and ~midway on southern tiles then move to northern (and SJI area)
- b. Santa Cruz, CA - should be one last correction to make before sending to Rick. who else needs access? I'll send an email to confirm formatting etc...
- c. The Southern Coast of WA and Northern OR (Columbia River) (waiting for USACE NCMP have not heard anything about this. not completed according to the JALBTCX web map)
- d. Alaska Communities - Gustavus, and ??

2. Non-NTHMP funded:

- a. Updated Coastal Relief Models for East and Gulf Coasts - also should be completed in a week or two.
- b. Met with researchers out of Purdue University, University of Iowa, University of Colorado Boulder, and Saint Louis University who are developing software to take cross sections and create channels. <https://rimorphis.org/> currently in testing
- c. Pushing to get the DEM validation tool funded to move to the Cloud and hopefully public.

c. Sediment Transport Modeling pre-workshop update/publication plan; Jim Kirby (10 min)

- 1) Background of the workshop and motivation.
- 2) Dynamic bathymetry is reality; modeling uses static DEMS.
- 3) Models now meet minimum reqs for benchmarking (models qualitatively accurate, test candidates exist; 2 real world, 1 lab test)
- 4) Will let modelers submit results up to 6 mo after workshop to improve codes
- 5) Reporting will follow the model of previous 2 workshops.
- 6) ASCE interested in results: scour included in models, but only first order

d. Landslide PTHA/Landslide Publications update; Stephan Grilli/Juan Horillo (10-15 min)

Grilli: [Link to presentation](#)

- 1) Stuck! Not many documented, 1 on East Coast M7.2 Newfoundland 1929.
- 2) PTHA needed, as not frequent (high impact, low prob. event) and highly complex (trigger, scarp, stability, type of landslide, etc)

- 3) Updating methods from 2009 to create a fast solver for SMF tsunami simulations. Tested using Palu tsunami. New method reduced calculation time.
- 4) Currently applying the eastern seaboard code also being optimized for MPI; MPI Fortran/Matlab hybrid.

e. Review maritime guidance Google Doc (10 min)

- 1) Get it done in the next few weeks. Aug 25th due date; reminder on Aug 15th only on Part 1. After that no changes/no complaints. Vote on during the next MMS meeting.

3. Review MMS NRI Homework (20 minutes) (there ended up being no homework)
 - a. 3-6 months to start the NRI for tsunamis, starting the official process tomorrow
 - b. NTHMP contributions the worksheet by county. 1 local, 1 distant. MMS needs to provide the sources. Hope to get down to census blocks eventually, update incrementally over time
 - c. Add NRI to MMS work plan?

Networking Lunch (12:00pm-1:15pm)

Afternoon Session (1:15pm-2:45pm)

4. Standardization of sea level data formats and data access: Liz Vanacore (10 min)
 - a. Possible white paper,
 - b. Talk to NOS, WCS, etc. Possibly work with IOOS
5. Tsunami Arrival Time update: Alex Dolcimascolo (10 min)
Dolcimascolo: [Link to presentation](#)
 - a. Recap of Previous Tiger Team meetings (2 so far)
 - b. Action item: Create standardized forecast/eta language for both warning centers. Submit to WCS for review
 - c. Action item #2: Create educational, artistic wave arrival figure
 - d. Defining "other" wave arrival triggers and thresholds (need more input from communities)
 - e. Complexities include warning vs. modeling needs, errors, local sources, coseismic deformation, etc.
 - f. Next meeting Aug 31st, all are welcome
6. Proposed Maritime Council Update: Dmitry Nicolsky (10 min)
 - a. SKIPPED: NO DMITRY
7. Debris Products; California--> Could be in MES! (10-15 min)
 - a. Details in MPRWG
 - b. Guidance document:
 - c. CA task to develop products

8. NCEI Marigram Digitization Process: Lindsey Wright (5-10 min)
 - a. Digitizing records 1854-1994
 - b. Gaps due to selection of only preserving large tsunamis digitally (working on smaller and volcanic tsunamis, can accept requests/suggestions for priorities)
 - c. Records picked by hand, programs miss peaks and troughs.

9. USGS Pedestrian Evacuation Analyst migration into ArcPro: Nate Wood (5-10 min)
 - a. Need to migrate from arcmap to ArcPro. Won't become open source unless Nate and co get funding to convert
 - b. Code being written to create new tools and toolboxes
 - c. Organize tool workflows using ArcPro Tasks (module based)
 - d. Tools for basic maps done; current work aims to add new functionality
 - e. Aim to start beta testing at the end of Sept. finish documentation for USGS by EOY.
 - f. To be a Beta tester contact Nate Wood, nwood@usgs.gov
 - g. Will be a small gap in service (open HAZUS) early in 2024.

10. Other Topics (up to 25 min)
 - a. To be added for next meeting. Time to review mapping and modeling guidelines
 - b. Mapping standards and products/graphical design

11. Closing: Adjourned at 1446 PDT