|  |  |  |
| --- | --- | --- |
| **Name** | **Agency** | **Email** |
| Co-Chair Tamra Biasco | FEMA | Tamra.biasco@dhs.gov |
| Co-Chair John Schelling | WA EMD | j.schelling@emd.wa.gov |
| Althea Rizzo (EC) | OR EM | Althea.rizzo@state.or.us |
| Ervin Petty (EC) | Alaska EM | Ervin.petty@alaska.gov |
| Kevin Miller (EC) | CalEMA | Kevin.miller@calema.ca.gov |
| Kevin Richards (EC) | Hawaii State Civil Defense | krichards@scd.hawaii.gov |
| Victor (EC) | PRSN | victor@prsn.uprm.edu |
| Rainer Dombrowsky (EC) | Maryland EM | rdombrowsky@mema.state.md.us |
| Jeff Lorens | NWS/WRH | Jeffrey.lorens@noaa.gov |
| Troy Nicolini | NWS | Troy.nicolini@noaa.gov |
| Teron Moore | British Columbia EM | Teron.moore@gov.bc.ca |
| Nate Wood | USGS | nwood@usgs.gov |
| Adam Stein | NOAA/Primo | Adam.stein@noaa.gov |
| Kate Long | CalEMA | Kate.long@calema.ca.gov |
| Russell Jackson | NOAA Coastal Services Center | Russel.jackson@noaa.gov |
| Vickie Nadolski | NOAA/NWS | Vickie.nadolski@noaa.gov |
| Noemi LaChapelle | WA EMD | n.lachapelle@emd.wa.gov |
| Rick Wilson | CA Geological Survey | Rick.wilson@conservation.ca.gov |
| Laura Kong | ITIC | Laura.kong@noaa.gov |
| Juan T. Camaecho | CNMI EMO | jtcamaeho@cnmiemo.gov.mp |
| Jeridena C. Crisostomo | CNMI EMO | jccrisostomo@cnmiemo.gov.mp |
| Chris Gregg | E. Tennessee State Univ. | Gregg@etsu.edu |
| Karl Kim | Univ of HI/NDPTC | karlk@hawaii.edu |
| George Parkes | Environment Canada | George.parkes@ec.gc.ca |
| Daniel Ingram | Environment Canada | Daniel.ingram@ec.gc.ca |
| George Priest | DOGAMI | George.priest@dogami.state.or.us |
| Paul Whitmore | NOAA/WCATWC | Paul.whitmore@noaa.gov |
| Jane Hollingsworth | NOAA | Jane.hollingsworth@noaa.gov |

**NTHMP Education Plan Update:**

Current state of tsunami education published in Feb 2011. Approved by NTHMP MES CC August 2011.

Wiki link for updates and [www.Tsunamieducation.org](http://www.Tsunamieducation.org) website available for use

12 action items were considered/8 will be in the forefront.

Tsunami Preparedness Week – March 25-31, 2012.

Compendium Progress – April 2012

Messaging Progress: Not official information on Information Statements, Watches, Advisories, and/or Warnings but public messaging; covers all forms of communication (websites, printed materials, social media, etc)

Audiences: Coastal, Businesses, media, marina, elected officials, and professionals (EM)

Collect messages from all sources

Convene series of webinars among stakeholders

Use a see what’s out there model

**Final Outcome:**

Consensus on fact based messages

Stakeholders adopt and re-communicate messages

Communicator’s observer consistent messages

All will be put on the tsunami.gov website in final form.

*Discussions:*

*Series of 13 webinars (what tsunami’s are, Published statements of tsunami, tsunami science, facts, clues, safety before a tsunami, safety during a watch, safety during an EQ, tsu. warning & evac)*

*MES: can distribute webinar to any contacts & research behind science.*

*Learn more about education plan and what is going to be accomplished.*

**National Tsunami Preparedness Week Discussion:**

NTHMP Tsunami Preparedness Week web address:

March 25-31st of March

General Handout for Tsunami Fact Sheet (2 pager) on website

PSA’s on website

PMEL on Japan EQ &Tsunami

*\*Links on site for agency and state activities on NTHMP Preparedness Week website.*

*Oregon signed proclamation and Alaska & California will be signed*

*\*Double check on next steps for Proclamation for NOAA – Jane will get update*

*Japan tsunami will be a big anniversary what can the states help to commemorate the event.*

*What can we do to prepare for the media?*

*On Tsunami Preparedness website state links need to be referenced for more specific locality information.*

*Make sure link is on tsunami.gov for NTHMP Preparedness Week activities and state links and points of contact.*

*Send Rocky revisions to web page for inclusion.*

**NTHMP Tsunami Survey Results:**

Presentation on metric outcomes

MES-EC recommendations:

Keep survey report unedited

Clarify some results

Keep Social Science questions “as is”, but modify “counting” or “apple to apple” type questions

Use existing data collection methods (i.e. progress reports) from state partners

Conduct electronic survey annually or bi-annually for community stats.

Updates to survey questions – see presentation

*Things to Do:*

*Validate the results*

*Update non-social science questions to better align w/NTHMP Metrics*

*Utilize Semi-annual reports to update metrics annually*

*Sub-committee co-chairs will update metrics for FY12*

*NTHMP Rules of procedures will need to be updated for quarterly reporting*

*Each State Partner and NTHMP Subcommittee validate results*

*MES approval of proposal*

*Coordinate w/other Sub-committees to ensure proposal meets their needs as well*

*Present findings and proposal to CC*

*Propose RoP changes to CC*

*Update Performance Measurements*

*Display Performance Measurements*

*Look at communities selected and how and look at characteristics of communities that did not respond to see similarities of why they didn’t respond and why they did respond.*

*Each state provided a list to contractor*

*Didn’t look at communities on why they didn’t respond. (rural vs city based, etc)*

*Can look at and classify communities in “clusters”*

*States wanted to filter survey down to communities for East Coast – communities didn’t want to share data back bc of annominity*

*Committee could look at data from East Coast/Gulf Coast on their vulnerability to storm surge vs tsunami – confusion of hazard.*

*How can we get results to get all “threatened communities” to respond? To collect real baselines.*

*Look at data for future data and take statistical data.*

*How random was selection (not very)*

*Compile list of all towns and randomly select 500 and hope 200 participate*

*Can make a good generalization of communities that did respond*

*Look at ones that didn’t respond*

*Community – based on population and area instead of county vs. city*

*Why not separate East, Gulf and West Coast during survey*

*Types and locations of communities important*

**CalEMA Value Based Messaging:**

Please See CalEMA presentation

How to take this work and implement it into the Tsunami Education Strategy and base it on emotions and actions.

**Tsunami vertical Evacuation:**

Signage for Vertical evacuation – what do we use? What would NTHMP use?

ISO recommended standard

How do we get Vertical Refuge on the table the same as “safe Houses”

**Pedestrian Evacuation:**

Maps that demonstrate vulnerable areas in communities regarding tsunamis

Who is in your zone (tourists, seniors, single moms, etc.)

Exposure numbers don’t tell the entire story but how long it takes to evacuate

Agent-based (network roads) vs least-cost distance (landscape)

Agent based = bottlenecks, specific scenarios

Least cost distance = Outreach, response, priority setting (bridges, etc).

Anisotropic Path Distance Modeling (path distance to safety)

Only do if you have really good land cover data

Merging land cover data with population data (employee data)

Changes when you put in population in the picture and the amount of fatalities

Distributions of residents and employees base on pedestrian travel times to safety can be illustrated graphically for “decision-makers”

Take population times the amount of time it takes to evacuate.

***Action Items:***

*Basic guide or simplified model that states can use*

*MES guideline or instructional guide*

**AWR 217 Tsunami Training**

Updating training for FEMA based on Japan Tsunami and adding a module for Nuclear Power Plants.

Looking for partnerships w/NTHMP partners.

Looking at developing “exercise” courses

Certificate Training

Keeping the message the same no matter where the message is being delivered

Mimic local tsunami messages and practices in course when delivering course.

**Future MES Actions for 2012**

Discussion on 3 co-chairs (FEMA, NOAA, and state chair) continue discussion at CC.

**Future Actions for Annual Meeting that affect MES future objectives:**

* National guidance on tsunami evacuation planning
* National guidance on tsunami hazard mitigation planning
* Maritime response planning (PR has plan)