Tuesday, 31 January 2017, Joint MES-MMS meeting

8:30-1430

Folklore from 1910—adobe building fell in an EQ, and only a doorway was standing; alas: instructions to stand in the doorway

Rules of Procedure (Bylaws)—Who does what and how they do it. Work together and inform one another. Strategies, etc.

What does MES need from MMS? MES Co-chairs Laura Kong, Tamra and Kevin Miller. See MES questions.

1. Need list of tsunami models, why the model is used, what the model does, doesn't do; look at MMS website nws.weather.gov/…..; Kara also has a spreadsheet that is close to useable; may provide two types: one technical and one non-technical.

Greatest model uncertainty comes from tsunami sources; Stephanie is working on results from joint NTHMP-USGS meeting (Boulder, CO, 2016) to identify source models. Determining return periods/recurrence intervals is a limiting factor.

2. Are people getting coastlines mapped as fast as possible? As per priority? Are the DEMS (LIDAR) a limiting factor? Understand the implications of the new technology.

Models: Physics based—usually within 10% of each other; sources and DEMS are largest contributors to uncertainty. Oregon, Hawaii and California happy with modeling to-date.

For Guam, Leo brought meeting up to date on plans; I indicated the difficulty in determining return periods of tsunami events on Pacific islands as typhoon inundations over shadow tsunami inundations and have much shorter recurrence for extreme events

3. Do you have the DEMs, structure data, etc. for evacuation modeling? No for the CNMI and Guam.

4. Was the pace of mapping and the 33% proposed for inundation mapping initiatives still being undertaken a reasonable measure? Pointed out that obtaining LIDAR measurement funding was a limiting factor for Tinian and Rota in the CNMI. Kevin brought up the fact that the 33% is nebulous value and is really project-related.

5. Do state and territory NTHMP representatives think their correct needs are being addressed appropriately? According to priority? Are model efforts focused correctly? Yes for Guam and the CNMI. These can be placed into four classifications:

a. Evacuation on land (pedestrian and vehicular clearance times) (GIS analysis)

b. Evacuation of ports and harbors (modeling)

c. Landslide modeling (modeling)

4. Vertical evacuation/Shelter in place—Analysis of buildings (engineering)

What does MMS need from MES?

1. For CNMI and Guam, our biggest problem is the local tsunami and the concurrent problem of dealing with a severe earthquake. Most of Saipan schools are in the flood zone and vertical evacuation may be best/only solution for some schools.

2. Hawaii: Need decision tools and messaging;

3. Army Corps of Engineers (USAEC) is missing from the table; invite them.

4. Product sharing: between federal agencies and states: Needs:

      Repository for modeling efforts; Kara is working on making an existing repository more user friendly; Crista (NWSHQ) introduced the coastal flooding coastal mapper being developed for the Pacific and Caribbean islands. Puerto Rico has brochures developed for hotels; National Ocean Service can provide a portal for accessing partner data bases.

NTHMP Strategic Plan—Tracking needs to be updated

1. Overall: Repository of products was reviewed in 2012 and turned down due to its complexity; use a portal approach with links to other websites.

2. Assess number of tsunami ready communities;

MES—Update

MMS—Update

Cross-cutting projects

1. Pedestrian guidance: Nate Wood can help us with evacuation guidance; offered to help us with evacuation modeling; Laura: are animations available? They are very valuable; evacuation routes must be realistic! This requires the local input.

2. Maritime guidance reviewed and updated: ongoing

3. MMS-MES Guidelines