

National Capitol Region Hazus User Group Conference Call

Thursday, May 28, 2015 at 10am

Leader: Cynthia McCoy, FEMA Region III – Risk Analyst - 215-931-5530 - cynthia.mccoy@fema.dhs.gov

Thanks:

- Thanks to everyone who is attending the call today and for the presenters who shared with us.
 - o Morgan Moschetti - mmoschetti@usgs.gov (USGS): Seismic Hazard from Induced Earthquakes (slides 9-44)
 - o Holly Elwell - holly.elwell@tpl.org (Trust for Public Land) & David Strong - dstrong@usgs.gov (USGS): Creating Climate-Smart Cities through Green Infrastructure (Slides 45-53)

Speakers:

- **Call Details** – Meeting minutes, presentation and audio will be posted after the call (slide 2)
- **Agenda** – (slide 3)
- **Announcements** (slide 4-8)
 - o Hazus Courses at EMI announced through October 2015 (training.fema.gov/emiweb)
 - Next class coming up is E317 Comprehensive Data Management for HAZUS: June 15-18, 2015
 - EMI Hazus Training Specialist – Jordan Manos (Jordan.manos@fema.dhs.gov)
 - o FEMA Region III Sponsored E317 Comprehensive Data Management for HAZUS
 - Training Sites – Delaware, Pennsylvania and West Virginia
 - All Successfully Completed
 - A report on the outcome of these trainings will be provided during the June 2015 NCR HUG Call
 - o URL for HAZUS Help DESK Site has Changed: **support.msc.fema.gov**
 - o Help Desk Email remains the same: **helpdesk@support.hazus.us**
 - o HAZUS Modernization Task 2 – May 18, 2015 Release of Hazus 2.2 Service Pack 01 (SP01)
 - Functional enhancements to the Flood module
 - Application of the dasymetric GBS distribution approach
 - Implementation of study region aggregation at custom jurisdiction and neighborhood levels
 - Updated version of Hazus data, including fixes to current state data available for public download
 - Fix to hurricane data tables addressing user-defined windfield creation errors.
 - **ATTENTION:** Task 2 previously included updates to damage functions and an alignment with the Benefit Cost Analysis (BCA) Tool. A latent defect exists in the Hazus flood model which prevents Hazus from determining whether a riverine or coastal damage function should be used for a user-defined facility (UDF) in a combined riverine-coastal scenario, and may not use foundation types correctly in estimating loses for the GBS. **This will be addressed with the next release (Hazus 3.0) later this year!**
 - To download SP01:
 - Users need only launch Hazus while connected to the internet and accept the automated patch installation to receive SP01. The updated homogeneous state

data and the new dasymetric state data are available via the MSC Hazus download webpage for free, public download. A registry change is necessary to use the dasymetric data. Please see the Release Notes included with the patch for step-by-step instructions. This document will open, once you install the SP.

- **ATTENTION:** If you upgraded your Hazus software with SP01 prior to 10AM Eastern Time on May 26th, you must update a .mdb file that may lead to inaccuracies in the flood data folder of your Hazus Application Installation Directory. Directions to do so are as follows:
 - Go to the Hazus download page on the Map Service Center:
<http://msc.fema.gov/portal/resources/hazus>
 - Click the link under “Download the Software” to download the file:
fIDmRsFn.mdb
 - Copy and save the file into the DATA\FL\ folder of your Hazus Application Install Directory, which typically looks something like this:
C:\Program Files\Hazus-MH\DATA\FL
 - When you see a window pop up asking “Do you want to replace this file,” click yes
 - Note: If you updated the Hazus software with SP01 after 10AM on May 26th Eastern Time, you have the correct .mdb file and do not need to take any action.

- **Presentation** - Seismic Hazard from Induced Earthquakes - Fracking (slides 9-44)

- Result from the release of stress when the pressures produced by injection of fluid overcome the friction on opposing rock surfaces
- How earthquakes can be induced
 - Direct fluid pressure effects from injection (diffusion)
 - Increase in pore pressure along fault
 - Changes in solid stress due to fluid extraction or injection
 - Change in loading conditions on fault
- Case Study – Denver EQ - The disposal of waste fluids by injection into a deep well has triggered earthquakes near Denver, Colorado
 - Key Findings:
 - Release of long-stored tectonic stress on ancient faults
 - Earthquakes occurred more than 10 km from injection point
 - Largest earthquake (Mw 4.8) occurred over one year after injection stopped
- Steps forward
 - USGS Developing 2015 seismic hazard model (December 2015)
 - Further research into causes of induced seismicity and potential for predicting what regions might be vulnerable.
 - Regional outreach – providing information to regions experiencing induced seismicity
 - Scientific support (e.g., seismic instrumentation CO, OK, KS, TX, AR)
 - Providing information and products (e.g., Dallas Area Earthquake Incidents Working Group)
 - Interaction with Building Code Committee

- **Presentation** – Creating Climate-Smart Cities through Green Infrastructure (Slide 45-53)
 - o GIS Online portal for New York City for decision support – Informs project selection and policy measures. <http://tplgis.org/NYClimate/>
 - Includes analysis data and priorities for green infrastructure related to :
 - Parcels at risk to Coastal Flooding
 - Risk of Coastal Flooding
 - Critical Infrastructure
 - Social vulnerability
 - Green Infrastructure opportunities
 - Use the data to model priorities!
 - Use Query Function to Find High Value Parcels and Develop Parcel Priority Maps
 - Run Data-Driven Parcel Reports
 - Use Data to Make Project Maps Showing Climate Relevance
 - Take Data to the Field

- Next Call (slide 54)
 - o Thursday June 25, 2015 (see call details below)

Related Documents/Links:

- 05/28/15 Slide Deck with Audio Recording:
- http://www.usehazus.com/uploads/forum/May282015_NationalCapitolRegionHUG_Presentation.pdf
- All NCR HUG Recordings:
<http://www.freeconferencecalling.com/Recordings/Podcast.aspx?bridge=697620&accountid=1116753>
- Hazus download:
<https://msc.fema.gov/portal/resources/hazus>

Next Call: Thursday, June 25, 2015 at 10AM EST

- o Conference # 1-302-202-1110
- o Pass code # 697620
- o Presentation: TBD
- o How-To: TBD