

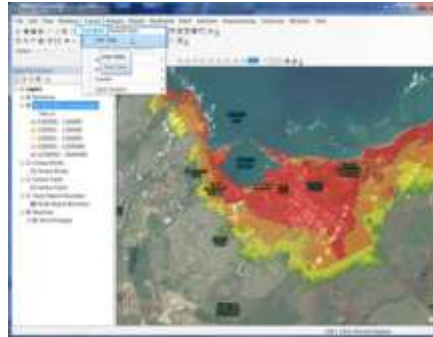
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Strategic Alliance for Risk Reduction
FEMA Region 10 Service Center
20700 44th Avenue West, Suite 110
Lynnwood, Washington 98036
(425) 329-3699

News from Region 10

Tsunami Module Coming to Hazus



In March 2017, FEMA plans to deploy the Hazus Tsunami Module based on a methodology developed in 2013. Hazus is a FEMA software modeling suite designed to calculate hazard and disaster impacts such as damage and losses for the perils of earthquake, flood, and hurricane (wind). It is intended for use as a mitigation tool within the United States but has also found utility internationally and in other phases of emergency management. The software has been around for almost 20 years, but it's been 14 years since a new peril was added to the suite. The Tsunami Module will include development for the 72 coastal counties of WA, OR, HI, CA, and AK, and high-risk US territories.

The Tsunami Module is still in the design stages, but current requirements call for capabilities that will enable Hazus to support tsunami loss estimates for Risk MAP and ensure that hazard data are based on authoritative sources. The hazard interface will reduce future costs and the need to update a Hazus tsunami hazard creation capability. This new capability will continue to help Risk MAP communities assess their risk and prioritize mitigation strategies.

Tsunami Module Features

- Processing of the Hazus General Building Stock to enable tsunami analysis;
- Import of different levels of tsunami hazard data from NOAA, states, and others;
- Ability to use a User Defined structure inventory, if available (as opposed to the default general building stock);
- Calculation of damage, direct economic losses, and casualties; and
- Ability to combine with Hazus earthquake runs for near source events.

The Hazus Tsunami methodology was developed by a team of tsunami experts composed of engineers, tsunami hazard modelers, emergency planners, economists, social scientists, geographic information systems analysts, and software developers. A Tsunami Oversight Committee provided technical direction and review of the methodology development.

Support for the development of this module comes from FEMA's Federal Insurance and Mitigation Administration (FIMA) as well as the Department of Homeland Security (DHS) Science and Technology Flood Apex program.

For more information, please contact scott.mcafee@fema.dhs.gov.

NORFMA News

NORFMA Annual Conference

September 20-23 marks the dates for the NORFMA Annual Conference. Be sure to register! It's shaping up to be another great conference with a broad range of topics:

- **Trainings and Updates** - FEMA Oregon BiOp, Letter of Map Changes, Regional updates, NFIP 101, CFM Review & more;
- **Breakouts** - Local and regional mapping and modeling examples and principles; Projects covering multiple benefits, site specific channel improvements, and risk assessment tools;
- **Field Trip** - Tour of local Yakima floodplain projects including the Eschbach Park levee removal, Ramblers Park & SR24 Gap to Gap Floodplain Restoration, and Boise Cascade Levee Breaching;
- **...and a whole lot more!**

Remember, the Annual Conference provides CECs for your CFM certification as well as other credentials needing professional development hours. Hurry and register now for the 2016 NORFMA Annual Conference. Visit www.norfma.org for conference news. See you all in Yakima!

CRS Users Group

The next CRS Users Group will be September 8 from 1-3pm PT at the Tacoma Mall Plaza Pierce County SWM office in Tacoma. Remote connection is available for those not able to attend in person. At this meeting, Marlene Jacobs, ISO CRS Specialist, will be training on the Annual Recertifications that are due for all communities by October 1st.

For more information (including the teleconference information), contact Dennis Dixon ddixon@co.pierce.wa.us.

Endangered Species Act Puget Sound Workshops

FEMA Region X and National Marine Fisheries Service (NMFS) are teaming up again to offer workshops to discuss habitat assessments and the "Door 3" option to achieve compliance with the 2008 NMFS Biological Opinion (BiOp) on the implementation of the NFIP in Puget Sound. **The target audience includes both local floodplain administrators and biological consultants.** These workshops will cover a general overview of the NFIP, requirements resulting from the BiOp, and what a habitat assessment needs to contain to show compliance.

Registration is free (link provided below). Five (5) CECs are available for ASFPM CFMs.

October 12 – Mount Vernon, WA
 October 13 – Everett, WA
 November 2 – Tacoma, WA
 November 3 – Bremerton, WA

Registration is available online at <http://starr-rsc10.eventbrite.com>

For more information, contact rxtraining@starr-team.com or call (425) 329-3699.

Ask the Help Desk

The FEMA Region X Service Center is here to help local community officials and stakeholders with technical, training, mitigation, and mapping questions. Let us help!

Send your questions to email at RegionXHelpDesk@starr-team.com.

G318 Local Mitigation Planning

This in-person, 2-day workshop covers the fundamentals of the mitigation planning requirements for communities to develop new or updated Local or Tribal Mitigation Plans that address community priorities and needs and meet requirements established in 44 CFR 201.6. This workshop describes the planning process, the requirements for stakeholder involvement, assessing risks and developing effective mitigation strategies. Finally, the basic elements of the plan review, approval, and update cycle are discussed, including tips for implementing and maintaining an approved plan, tracking performance, keeping stakeholders involved, and preventing plans from lapsing or expiring.

The target audience is land use planners, contractors, city/county officials, tribal government officials, floodplain managers, wildfire prevention staff, emergency managers, and anyone else involved in the development and/or implementation of Local or Tribal Mitigation Plans.

Course Date and Location

October 18-19 – Lynnwood, WA

Space is limited. Registration is free, but required. Attendees must make their own arrangements for travel and lodging.

For registration information, please contact Stacie.Imuta@fema.dhs.gov.

RiskMAP
 Increasing Resilience Together

E273 Managing Floodplain Development through the NFIP

There are still seats available for floodplain management courses at EMI that have been pre-approved for Continuing Education Credits (CECs) for CFMs. EMI courses are offered at the beautiful Emmitsburg, MD, campus. If you are a state, local, or tribal government employee you may attend the training for FREE with all expenses covered except meals.

Course Information

October 31 - November 3, 2016
12 CECs for CFMs

Application Deadline: September 16

This course provides an opportunity for local officials responsible for administering their floodplain

regulations. The course will focus on the NFIP and concepts of floodplain management, maps and studies, ordinance administration, and the relationship between floodplain management and flood insurance.

For more information, including prerequisites and registration information, visit training.fema.gov.

Newsletter Ideas?

Want to spread the word about an upcoming event or recent success story? Let us know what you to want to see in future issues!

Articles can be up to 500 words and may include pictures. Email us at RXNewsletter@starr-team.com.

Suggested Reading

Following recent flooding in Louisiana, we'd like to share with you two excellent news articles:

This Is What City Flood Cleanup Looks Like

By Jen Kinney, August 26, 2016

East Baton Rouge navigates environmental and FEMA rules amid piles of debris.

<https://nextcity.org/daily/entry/debris-removal-underway-in-east-baton-rouge>

The US Strategy for Flood Resilience Is Underwater

By Tracey S. Chaplin (Op-Ed), August 24, 2016

<https://nextcity.org/daily/entry/us-strategy-flood-resilience-coastal-cities-competitions>



Online Training

(All times Pacific)

CRS: Preparing an Annual Recertification

September 7, 10am
Online* - 1 CEC

Floodplain Development Permit Review

September 8, 9am
Online* - 1 CEC

Inspecting Floodplain Development

September 8, 10:30am
Online* - 1 CEC

Elevation Certificates

September 15, 10am
Online* - 2 CEC

CRS: Preparing an Impact Adjustment Map

September 27, 10am
Online* - 1 CEC

CRS: Flood Warning & Response (Activity 610)

September 28, 10am
Online* - 1 CEC

The NFIP and the ESA

September 29, 10am
Online* - 1 CEC

CRS: Preparing for a Verification Visit

October 18, 10am
December 20, 10am
Online* - 1 CEC

CRS and Class 4 Prerequisites

October 19, 10am
Online* - 1 CEC

Tools for Determining BFE

October 20, 10am
Online* - 1 CEC

Introduction to CRS

November 15, 10am
Online* - 1 CEC

CRS: Developing a PPI and an Insurance Coverage Improvement Plan

November 16, 10am
Online* - 1 CEC

CRS and Coastal Hazards

December 21, 10am
Online* - 1 CEC

The Role of the Community CRS Coordinator

January 17, 2017 10am
Online* - 1 CEC

Changes in the 2017 CRS Coordinator's Manual

January 18, 2017 10am
Online* - 1 CEC

*To register for online courses, visit STARR's training site online at j.mp/starronlinetraining, or email RXTraining@starr-team.com.