

Teleconference Notes, March 06, 2013, 10:30 – 11:30 1-877-413-4790 conference ID 3381344#

@RiskAUG

Monthly RAUG meeting

The Risk Assessment Users Group meets by telephone on the first Wednesday of every month, 10:30 - 11:30 am Pacific Time. It meets in person with the Hazus User Group at the annual Canadian Risk and Hazards Network Symposium.

SCHEDULE

- Introductions
- Your news and views
- Risk Assessment Special Session at CRHNet 2013: Description and discussion
- Risk Assessment Projects Compilation: Proposal and Process Discussion

Introduction

The forum is to share knowledge about incorporating Risk Assessment into disaster reduction decisions in Canada. It is a forum supported by NRCan's Quantitative Risk Assessment Project of the Public Safety Geoscience Program until March 2014.

Your News and views

Last month

Conversation about using the Delphi method for risk assessment. Facilitated by Bert Struik. The slide deck, notes, reference paper and podcast are available on the RAUG website: http://raug.mhrisk.ca in the folder RAUG_Meeting_2013-02-06

Upcoming events

5th International Conference on Natural Disaster Management (GiT4ND) Waterloo Institute for Disaster Management (WIDM) and Dewey College October 9 - 11, 2013 at Dewey College; 5889 Coopers Ave., Mississauga, Ontario, L4Z 1P9 Canada. Exhibition beside the 5th GiT4NDM 2013 to showcase state-of-the-art geo-information and communication technology products and services.

Canadian Risk and Hazards Network 10th Annual Symposium Regina, Saskatchewan Radisson Hotel November 5 - 8, 2013 Deadline for Proposals for Thematic Sessions extended to March 15: Post your proposal at <u>http://www.crhnet.ca</u> >Annual Symposium > Program or send your proposal to Mieka Torgrimson, Emergency Management and Fire Safety Saskatchewan; Mieka.Torgrimson@gov.sk.ca Flyer posted to http://raug.mhrisk.ca

Discussions

Risk Analysis and Assessment Special Session: Canadian Risk and Hazards Network 10th Annual Symposium.

This discussion is to get your feedback on the formulation of a special session on risk evaluation and assessment at CRHNet 2013.

The idea for the session is to discuss the use of tools and methodologies to measure potential losses from natural hazards: in particular floods and earthquakes. NRCan is collaborating with Agriculture Canada to develop and chair the special session. We would like to highlight what Hazus and LIRA can do to model flood and earthquake losses. What else should we foster???

Agriculture Canada has developed a Land and Infrastructure Resiliency Assessment tool (LIRA). Harvey Hill summarized the LIRA project for this group on December 7, 2011.

From the website: <u>http://www.assiniboinewatershed.com/what-we-re-doing/lira</u> of the Assiniboine Watershed Stewardship Association.

"The objectives of the LIRA project are to:

- Assess the risk to a region's infrastructure systems and the environment, and
- Develope and rank adaptation options that reduce socio-economic and environmental costs.

Simply put, LIRA provides a proactive approach to minimize future negative impacts caused by extreme precipitation in our watershed.

LIRA was developed by Ag Canada in order to create a tool that municipalities can utilize to fascilitate planning and preparation for future flooding scenarios. The first test of the methodology took place in the RM of Corman Park, near Saskatoon, SK in 2008.

The AWSA is one of 3 watershed groups in the province that are currently undertaking LIRA pilot projects. We will be starting activities summer, 2011. See the map below for the study area.

STEPS OF THE LIRA PROCESS:

- 1. Map the landscape We were out starting this summer, mapping the landscape of the two study areas in terms of land use (e.g. cropland, hay, pasture, etc), water-related infrastructure (e.g. culverts and bridges), and other residence/infrastructure info (e.g. farmyards, barns, corrals, etc).
- 2. Assign economic value to what was mapped.
- 3. Model various flood scenarios on the landscape (e.g. 1 in 10 yr flood, 1 in 100 yr flood, etc) and determined the economic impacts.
- 4. Rerun the flood model, this time with various mitigation options (e.g. wetland restoration, new water infrastructure, different zoning around urban centers, etc) and perform a cost/benefit analysis.
- 5. Reach informed decisions regarding flood risk management."

Hazus is a loss-estimation tool that can work for urban assets for floods and earthquakes and rural assets for flooding. See <u>http://www.fema.gov/hazus</u>

Risk Assessment Projects Compilation: Proposal and Process Discussion

Would an online inventory of active and recently active risk assessment related projects be of value (have benefit for its cost)?

What information should be in such an inventory – that is practical to supply?

How should the information be gathered?

How should it be displayed?

Who would manage it and supply the infrastructure?