

Agenda
Second Annual Pest Risk Mapping Workshop
September 16-17, 2008

Cambria Suites, 2870 Metro Drive, Bloomington, MN

Sept 16

8:30-9:00 **Welcome** (Details about local arrangements; updates on activities/progress since last meeting; goals for this meeting)

Setting the stage: Operational use of pest risk maps

9:00 “*Use of pest risk maps in Minnesota: Implications for Phytophthora ramorum*”
Terry McDill, Minnesota Dept. of Agriculture, St. Paul, MN.

9:30 “*Uses of pest risk maps in Michigan*” **Roger Mech**, Michigan Dept. of Natural resources, Lansing, MI (via teleconference)

9:40 “*Uses of pest risk maps in Forest Health Protection.*” **Michael Connor**, Forest Health Protection, USDA Forest Service, St. Paul, MN.

10:00-10:30 **Break**

Developing and evaluating pest risk maps: Concepts, applications, and commentary

10:30 “*Fidelity to long-established rules for mathematical modeling: the key to rational, robust, and stable risk models*” **Bill Smith**, Southern Research Station, USDA Forest Service, Research Triangle Park, NC.

11:00 “*Metrics for quantitative evaluation of automated climate match maps*” **Roger Magarey**, USDA-APHIS-PPQ-CPHST-PERAL, Raleigh, NC; **Jay Schlegel**, ZedX Inc., State College, PA. .

11:30 “*Climate match analysis of the light brown apple moth, Epiphyas postvittana, in the conterminous United States and the predicted risk to apple, grape, orange and pear production.*” **Glenn Fowler, Dan Borchert, Roger Magarey, Lynn Garrett, Alison Neeley and Brian Spears**, USDA-APHIS-PPQ-CPHST-PERAL, Raleigh, NC

12:00-1:30 **Catered Lunch: D’Amico & Sons**

Developing and evaluating pest risk maps: Concepts, applications, and commentary-continued

1:30 “*The potential distribution of Orthotomicus erosus in the contiguous US.*” **Marla Downing**, Forest Health Protection, USDA Forest Service, Fort Collins, CO; **Frank Koch**, Dept. of Forestry and Environmental Resources, NC State

University, Research Triangle Park, NC; **Dan Borchert**, USDA-APHIS-PPQ-CPHST-PERAL, Raleigh, NC; **Frank Sapio**, Forest Health Protection, USDA Forest Service, Fort Collins, CO; **Steve Seybold**, Pacific South West Research Station, USDA Forest Service, Davis, CA; **Bill Smith**, Southern Research Station, USDA Forest Service, Research Triangle Park, NC; **Sheri Smith**, Forest Health Protection, USDA Forest Service, Susanville, CA; **Borys Tkacz**, Forest Health Protection, USDA Forest Service, Arlington, VA. **Mike Tuffly**, ERIA Consultants LLC, Boulder, CO; **Rob Venette**, Northern Research Station, USDA Forest Service, St. Paul, MN.

2:00 “*V-GET: A new web-based tool for collecting spatial pest occurrence data.*” **Jason Beddow**, Dept. of Applied Economics, University of Minnesota, St. Paul, MN.

2:30 “*Mapping invasive species risks with stochastic models: concepts and data needs.*” **Denys Yemshanov**, Canadian Forest Service, Great Lakes Forestry Centre, Sault Ste. Marie, ON; **Frank Koch**, Dept. of Forestry and Environmental Resources, NC State University, Research Triangle Park, NC; **Daniel McKenney**, Canadian Forest Service, Great Lakes Forestry Centre, Sault Ste. Marie, ON; **Marla Downing** and **Frank Sapio**, USDA Forest Service, Forest Health Protection, Forest Health Technology Enterprise Team, Fort Collins, CO.

3:00-3:30 Break

3:30 “*Evaluating critical uncertainty thresholds in a spatial model of pest invasion risk.*” **Frank Koch**, Dept. of Forestry and Environmental Resources, NC State University, Research Triangle Park, NC; **Denys Yemshanov** and **Daniel McKenney**, Canadian Forest Service, Great Lakes Forestry Centre, Sault Ste. Marie, ON

Beyond maps of establishment and spread: Real and conceptual progress towards impact mapping

4:00 “*Age-stage models: Predicting local population dynamics of invasive organisms with variable developmental rates.*” **Nadilia Gomez**, Dept. of Biology, University of North Dakota, Grand Forks, ND; **Rob Venette**, Northern Research Station, USDA Forest Service, St. Paul, MN.

4:30 “*Mapping potential impacts: the final frontier?*” **Richard Baker**, Central Science Laboratory, Sand Hutton, York.

6:30 Depart hotel for group supper at Twin City Grill

Sept 17-Building consensus on guidelines for pest risk maps. By the end of the day, we would like to have an outline of guidelines for the development of a pest risk map. This outline might be the foundation of a publication (similar to Gray et al. 1998. Principles for conduct of pest risk analyses: Report of an expert workshop. Risk Analysis 18: 773-780). The guidelines would be more descriptive than prescriptive in nature. Roger and Darren will facilitate.

8:30 *“Progress on the development of guidelines for pest risk maps”* **Darren Kriticos**, CSIRO Entomology, Canberra.

9:30 *Facilitated discussion. “Articulating the need: Why do we need guidelines for pest risk maps? What should guidelines do? How do our models differ from models generated by the ecological-niche modeling community?”* **Roger Magarey**

10:00-10:30 Break

10:30 *Brainstorming session: What general topics should guidelines address?*

11:00-12:00 *Facilitated discussions of the topics identified during the brainstorming session.*

12:00-1:30 Box Lunch Picnic at Minnesota Valley Wildlife Refuge

1:30–4:00 *Continued discussion on Guidelines; future directions & wrap up (who will take lead on new paper; how do we interact more with ecological-niche modelers?)*