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)


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
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?)