

RESEARCH SEMINAR SERIES

Mountain pine beetle dispersal in British Columbia, Canada: spatiotemporal patterns and role in the spread and expansion of the present outbreak



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Abstract

We developed a novel landscape dynamic conceptual model of mountain pine beetle infestation to quantitatively determine short-distance dispersal (SDD) and long-distance dispersal (LDD) at local (forest district) and regional (provincial) scales. This study addresses two fundamental questions: (1) What are the spatial and temporal patterns of dispersal? (2) What are the roles of SDD and especially LDD in the spread and expansion of the current mountain pine beetle outbreak? We conclude from the spatiotemporal patterns of dispersal observed at local and regional scales that LDD is a key factor in the initiation and early stage of the infestations in new remote areas, and SDD dominate in the spread and expansion of the outbreak as the infestations intensify and reach epidemic levels.

Bio

Huapeng Chen taught and conducted research in wildlife ecology and management at Northeast Forestry University in China. In Canada, he worked as a GIS/Remote Sensing Specialist in industry sectors before he joined the Research, Innovation, and Knowledge Management Branch. His current research is focused on spatial and temporal pattern and process analysis of mountain pine beetle infestations, and ecosystem mapping.



When: January 18, 2010 1:30 pm to 2:30 pm

Location: Victoria: Room 502, 727 Fisgard Street

Conference call: 1-877-353-9184

Conference ID: 7190434

Common meeting rooms have been reserved in the following locations:

Kamloops: Juniper room, Southern Interior Regional MFR Office

Prince George: Heritage Room, Northern Interior Regional MFR Office

Smithers: Driftwood Room, Skeena-Stikine Forest District Office

Nanaimo: Birch Room at 2100 Labieux Rd.

William Lake: Williams Lake Room, Williams Lake Forestry Centre

A PowerPoint presentation will be available at http://www.for.gov.bc.ca/hre/research_seminars on the day of the presentation.
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