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Mechanistic models for the spread of forest alien invasive insects

The Asian longhorned beetle, the Brown spruce longhorn beetle and the Emerald ash borer are the three most recent invasive forest insects to arrive on Canada's doorstep. These insects cause extensive and costly damage to Canada's forests, and their management depends on reliable models for the establishment and spread of populations in a region. In this talk I present some recent results from a mechanistic model for spread of the Emerald ash borer-based suspected dependence of dispersal on the distribution of the host trees.