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Modeling of Mosquito Abundance and West Nile Virus Risk Using Weather and Environment Conditions

In this talk, I will present modeling studies of mosquito abundance and West Nile virus risk considering weather and environmental conditions. The surveillance data from Region of Peel, Ontario will be used to estimate the parameters in both of the statistical and dynamical models. I will then present the tools and practice in collaboration with Region of Peel and Public Health Agency of Canada on forecasting the mosquito abundance and West Nile risk in the region.