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**James Watmough\***, watmough@unb.ca, and **Lin Wang, Myriam Barbeau and Ali Gharouni**. *Larval versus adult dispersal: implications of two modes of dispersal on the spread rate of an invasion.*

Aquatic invasive species often have larvae or propagules as the most dispersive stage. However, other stages, such as the adult stage, can naturally disperse too. We use a structured integro-difference equation model of the the spread of the green crab up the northwest coast of the Atlantic is used as a case study to examine the dependence of both adult and larval dispersal on invasion dynamics. Adding an additional dispersive stage will increase invasion spread rates. However, it is unclear how the sensitivity of spread rate to underlying parameters might change with additional dispersive stages. Knowledge on the sensitivity of spread rate to demographic and dispersal parameters helps inform management strategies. This is joint work with Lin Wang, Myriam Barbeau and Ali Gharouni. (Received September 04, 2019)