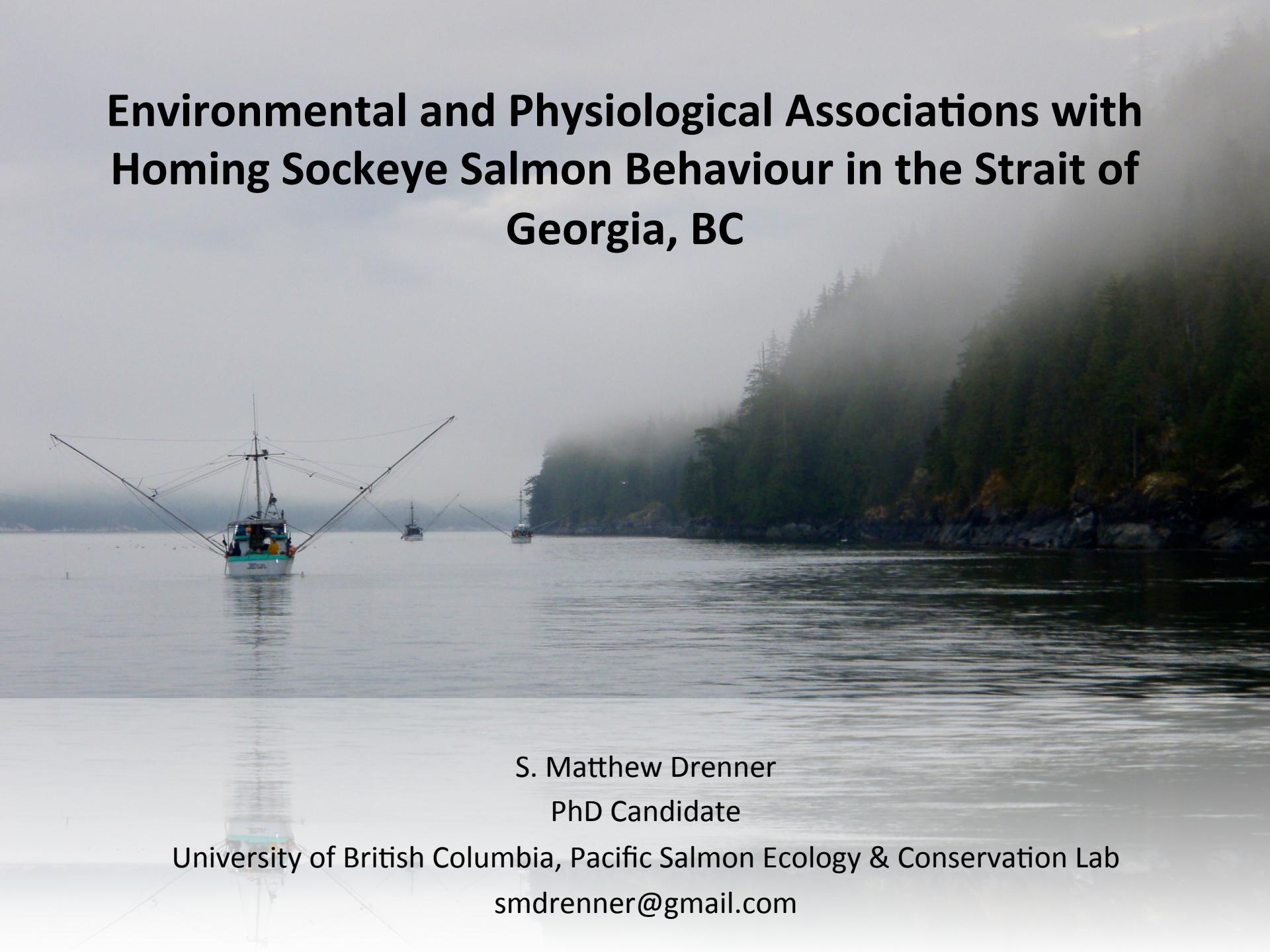


Environmental and Physiological Associations with Homing Sockeye Salmon Behaviour in the Strait of Georgia, BC

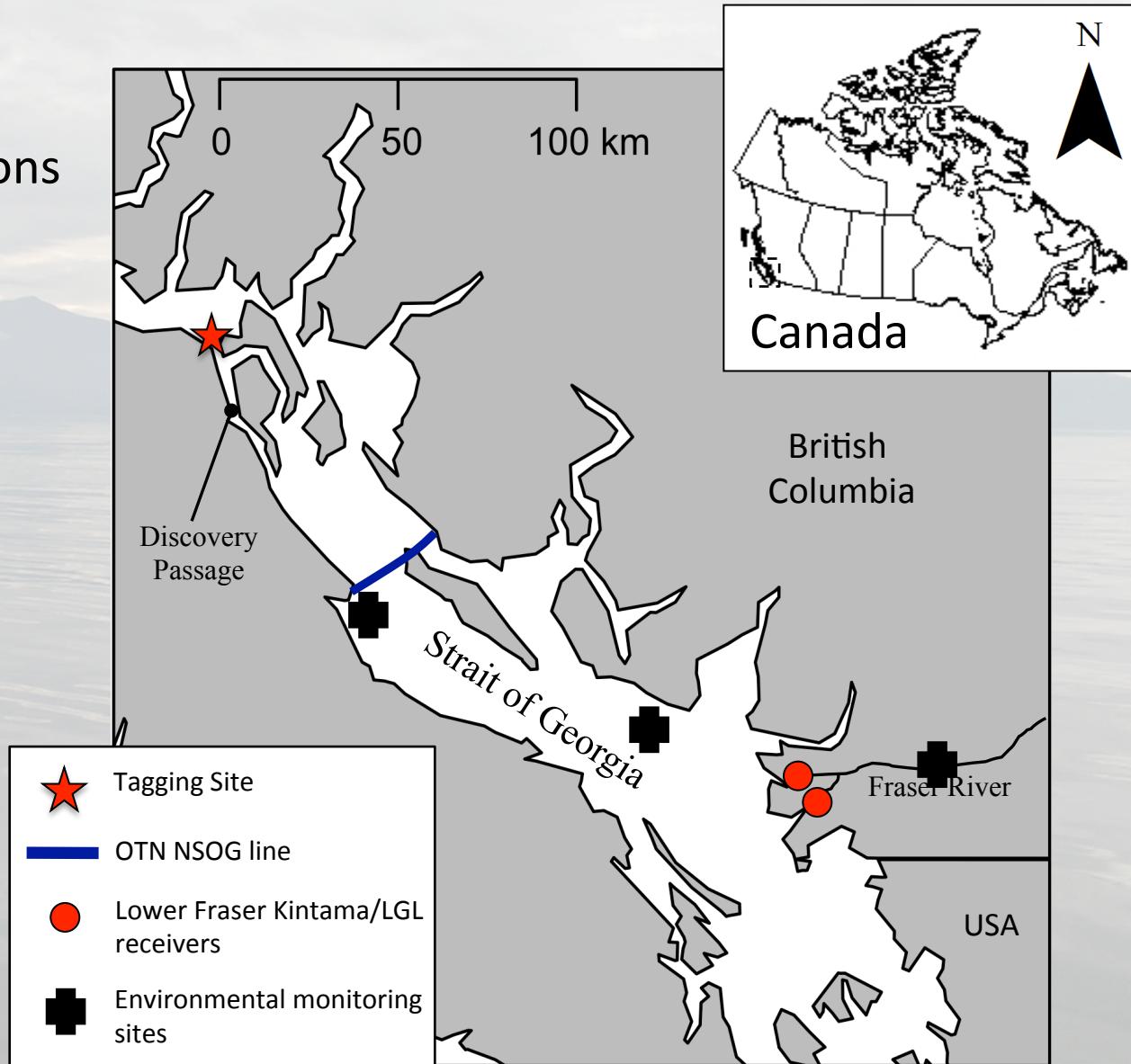


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Methods

- Two migration sections
 - 1) upper
 - 2) lower
- Environmental data
 - discharge
 - temperature
 - salinity
 - wind



Winds carry Fraser River influenced surface water north (Thomson 1981)



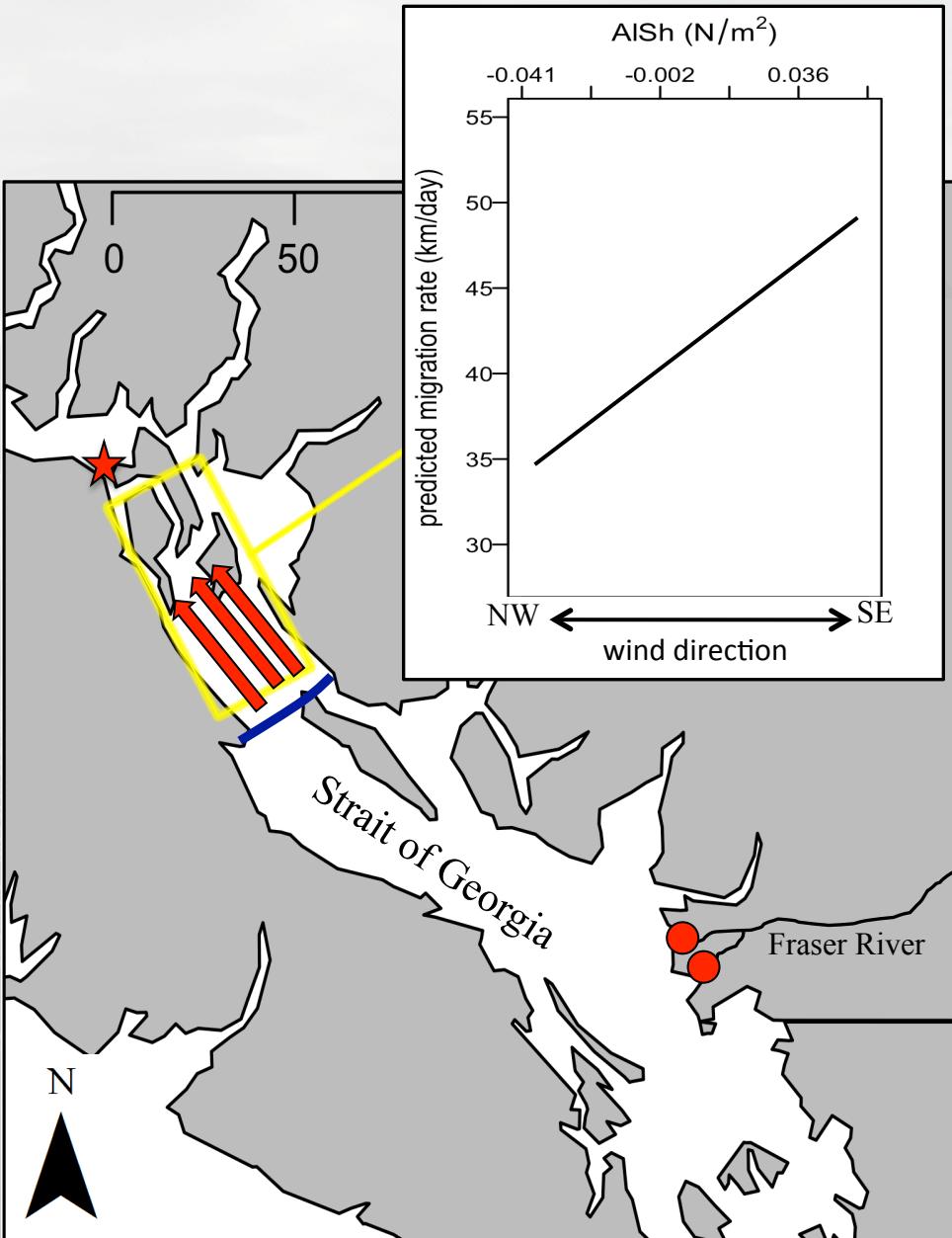
Sockeye are exposed to olfactory signal (Quinn & Dittman 1990)



Neuroendocrine response accelerates maturation (Ueda 2011)



More reproductively mature fish migrate faster (Cooke et al. 2008; Crossin et al. 2007, 2009)



Winds create surface currents flowing towards the Fraser River (Thomson 1981)



Sockeye use surface currents in estuary to assist movements as energy saving strategy (Levy & Cadenhead 1995)



Use of surface currents results in faster migration

