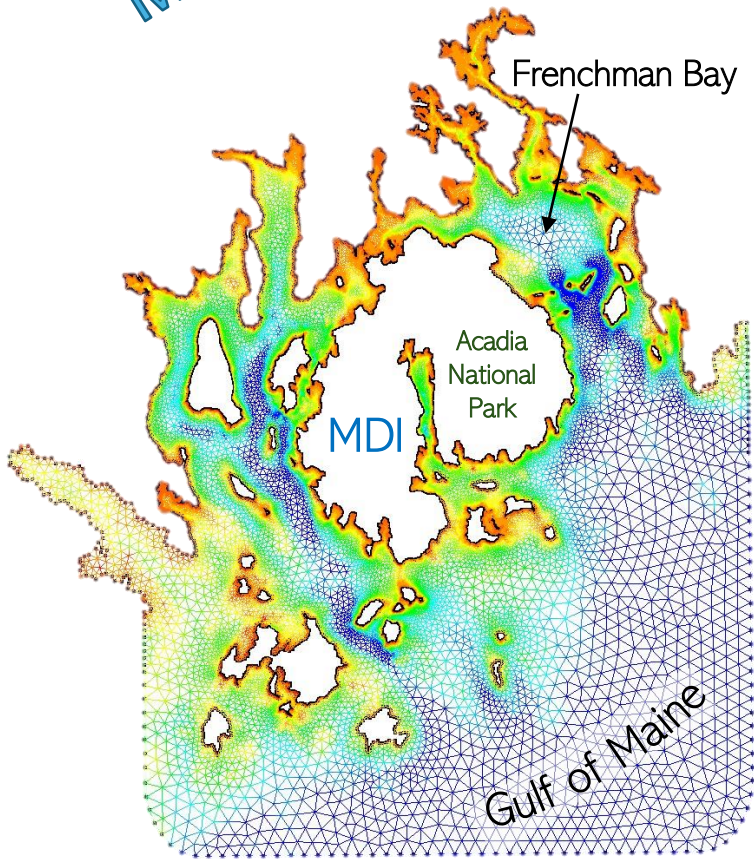


Material Transport Around Complex Coastlines



Using a combination of observational data and numerical modeling, this dissertation explores the influence of complex coastline geomorphology on circulation and material transport within Frenchman Bay, Maine, and its surrounding estuaries. This work focuses specifically on water quality challenges currently facing Maine's coastal waters due to climate change and anthropogenic influences. These issues include the novel appearance of harmful algal bloom species, and bacterial pollution due to high-intensity, short-duration rainfall events that induce runoff contaminated with fecal coliform bacteria. This work aims to improve our understanding of how hydrodynamic forcings influence material transport to help inform decisions regarding aquaculture and shellfishing management taking place in Frenchman Bay and beyond.

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Zoom:

<https://maine.zoom.us/j/89765094224?pwd=Me0Eoahm2D1MuoJa3IfwhJSernHSBl.1>

Wednesday, April 23, 10 AM



Watershed Process

& Estuary Sustainability

