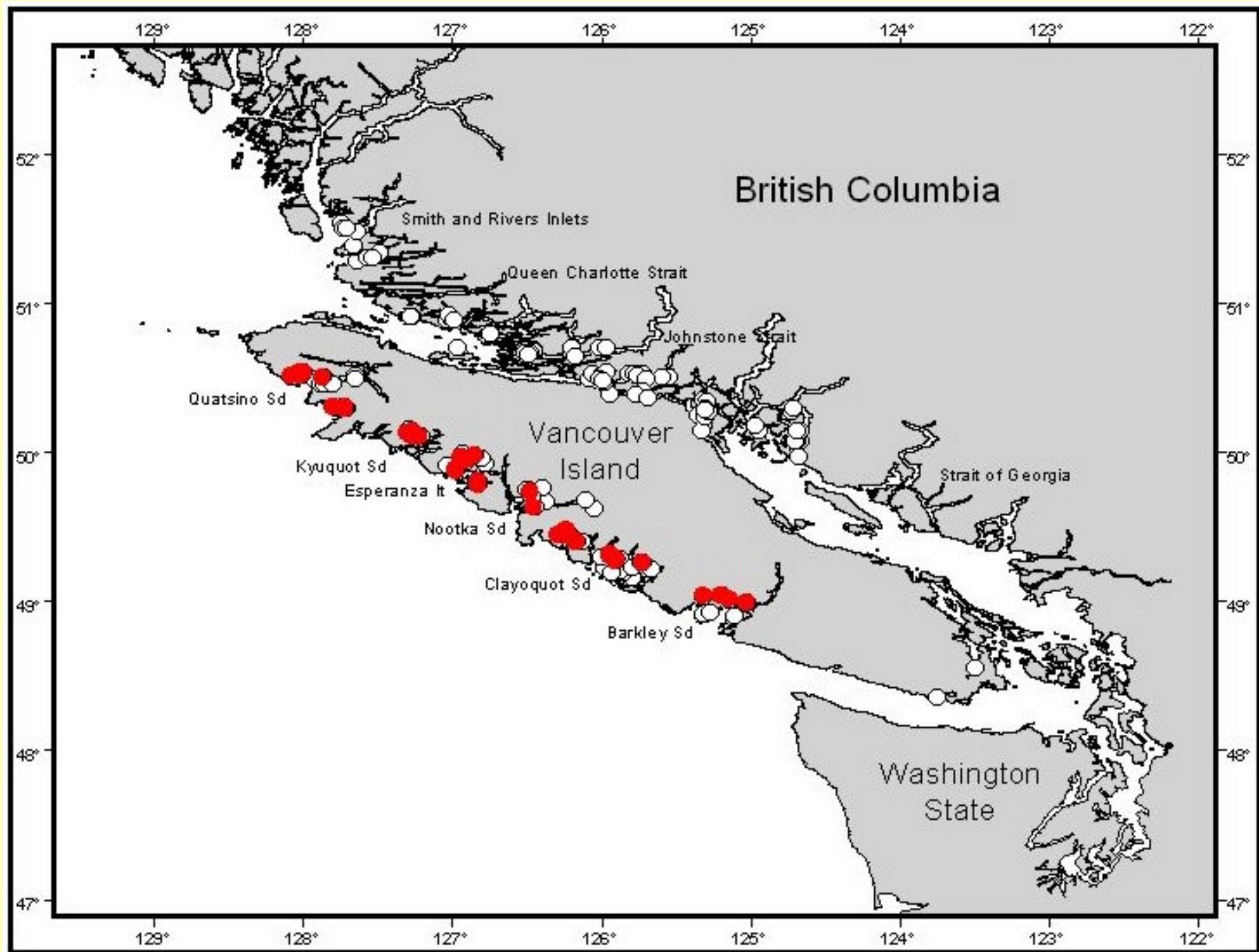


Questions

- *Why have green crabs not entered the inland sea?*
- *Why are green crabs more abundant on the west coast of Vancouver Island than in Washington and Oregon estuaries?*



Strait of Juan de Fuca

- Surface currents flow out >70% of time
 - 90% in summer 55% in winter

Thomson et al. 2007

- Surface water temperatures are cold

Victoria (Race Rocks) and Port Angeles (46039)

- 8 mo < 10°C; 0 mo > 12°C

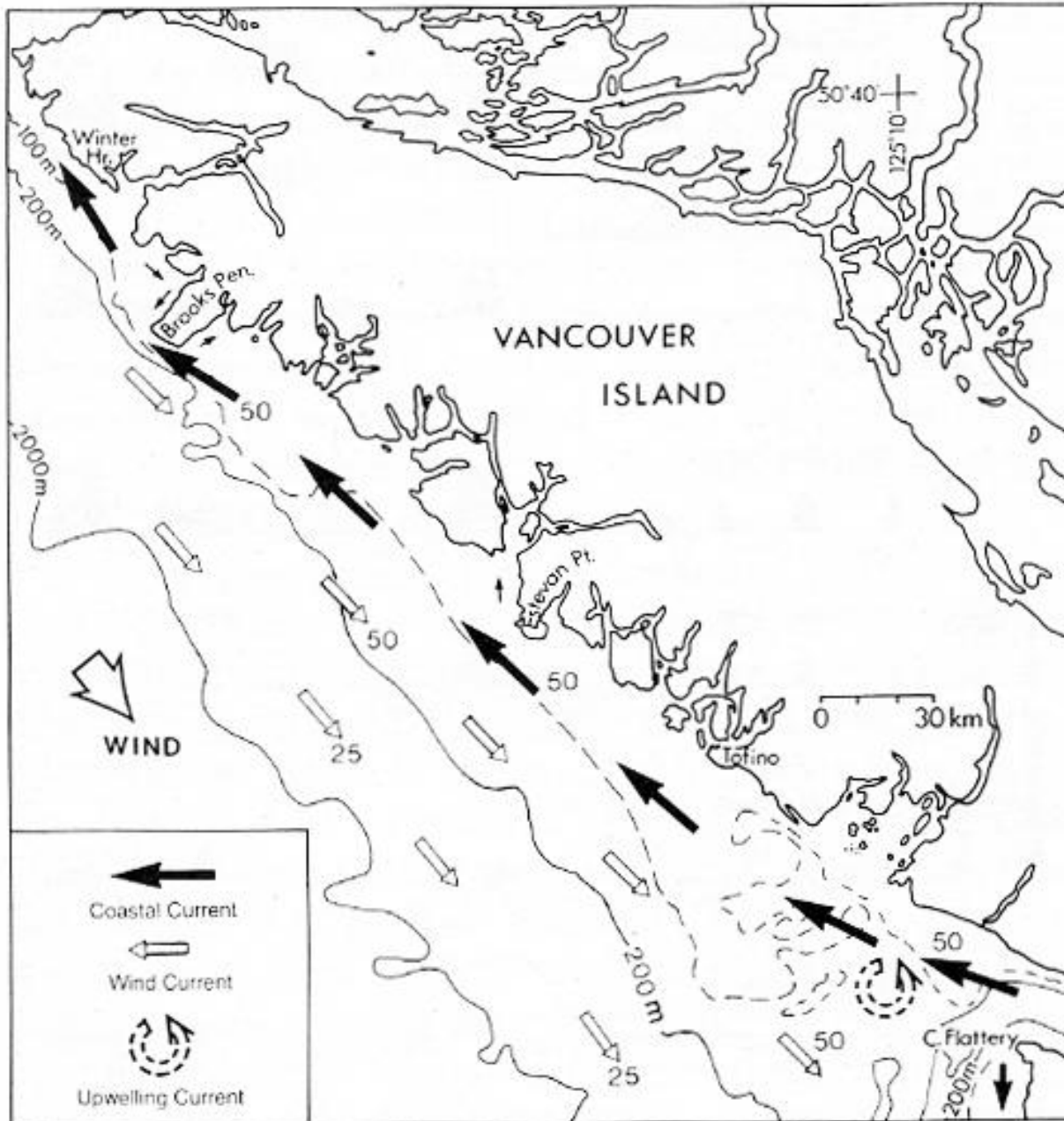
Average Abundance of Green Crabs in 2007

	# Crabs	# Traps	# crabs per trap/day
Winter Harbor, BC 2007 Quatsino Sound	1204	96	12.5
Pipestem Inlet, BC 2007 Barkley Sound	1079	49	22.0
Willapa Bay, WA 2007	4	318	0.01
Netarts Bay, OR 2007	35	103	0.34

Surface currents during summer off Vancouver Island

Richard Thomson 1982

Oceanography of the British Columbia coast



Why are green crabs more abundant in BC?

- No large estuaries on the west coast of Vancouver Island.
- Inlets, like Pipestem, warm up early in the year ($>21^{\circ}\text{C}$) and are noted for the production and retention of Japanese oyster larvae.
- Northward and shore-ward currents exist year round.