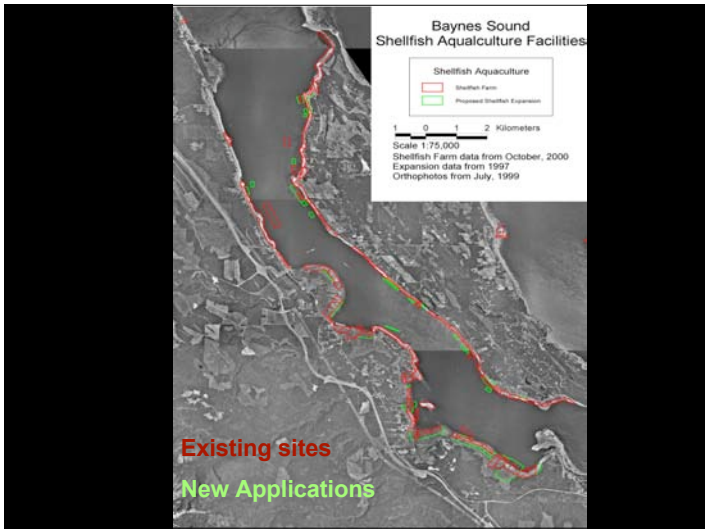


For presentation only. Do not cite, copy or distribute without the author's consent.





For presentation only. Do not cite, copy or distribute without the author's consent.



What are the ecological concerns of the shellfishery at Bayne's Sound?

**Ecosystem structure:** Intertidal biodiversity (number of spp, distribution and abundance).

Impact on higher trophic levels (all other spp that are dependent on the intertidal for some aspect of their life history)

**Ecosystem function:** Natural geochemical cycles of C, N, Fe and P.

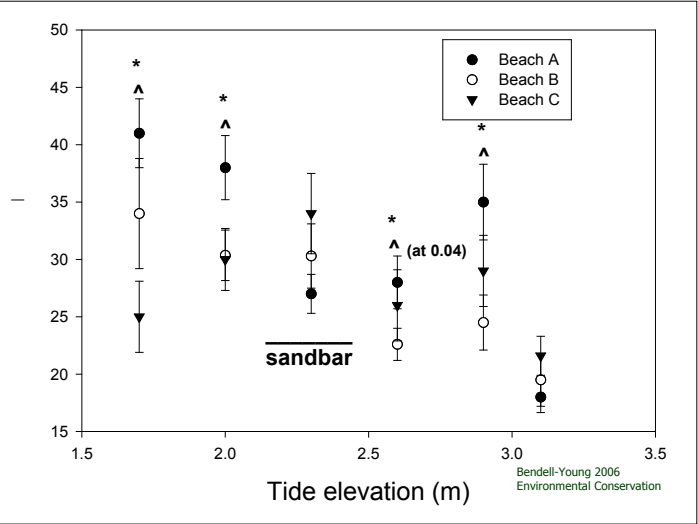




# Recorded Variables

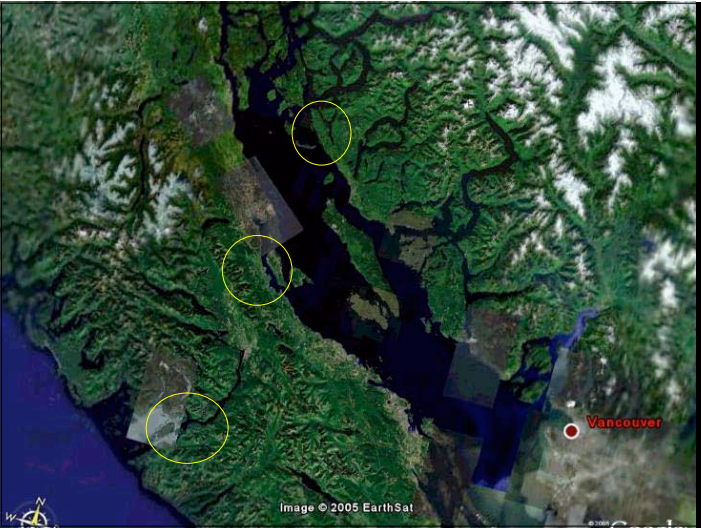
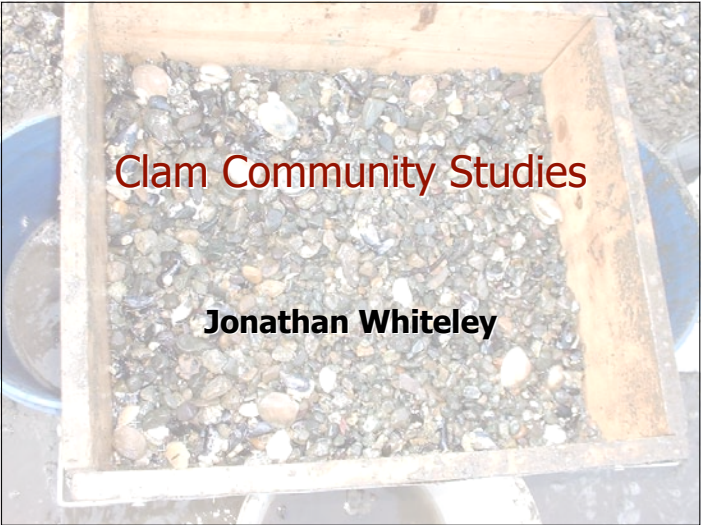
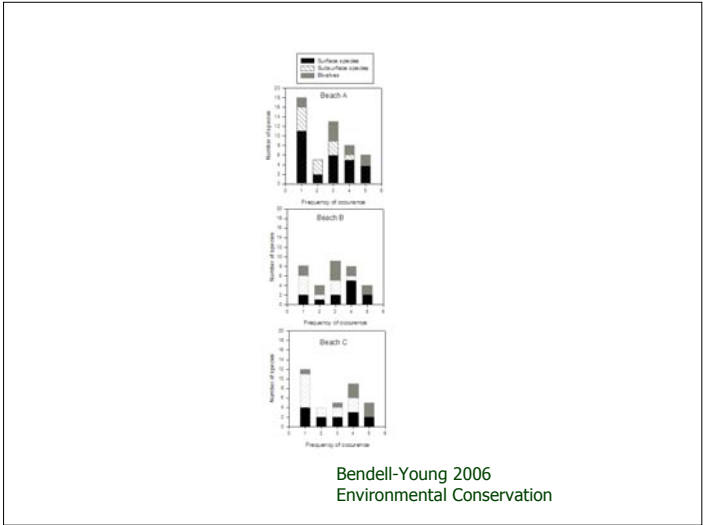


- Invertebrate Counts (Large & Small)
- % Plant cover
- Clam weights (1/3)
- Tidal Height\*
- Sediment Type
- Sediment cores:
  - Sediment properties; frozen
  - Meiofauna (1/3)\*; ethanol

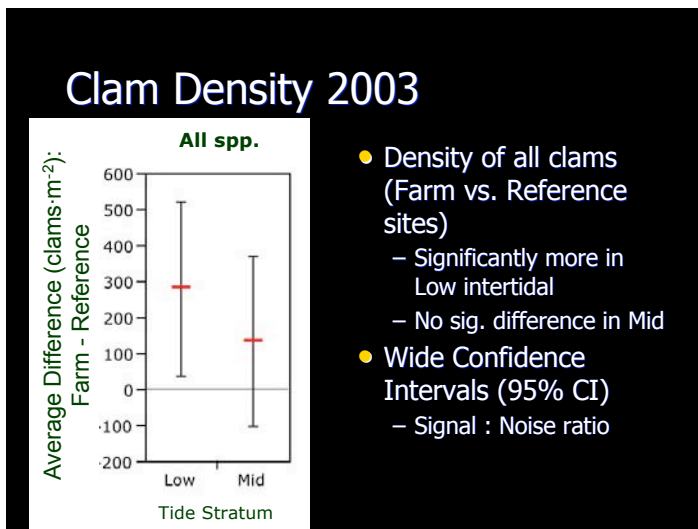
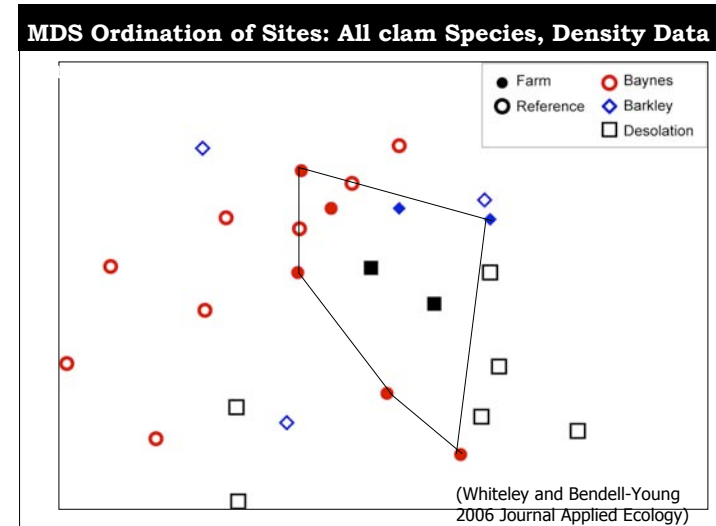
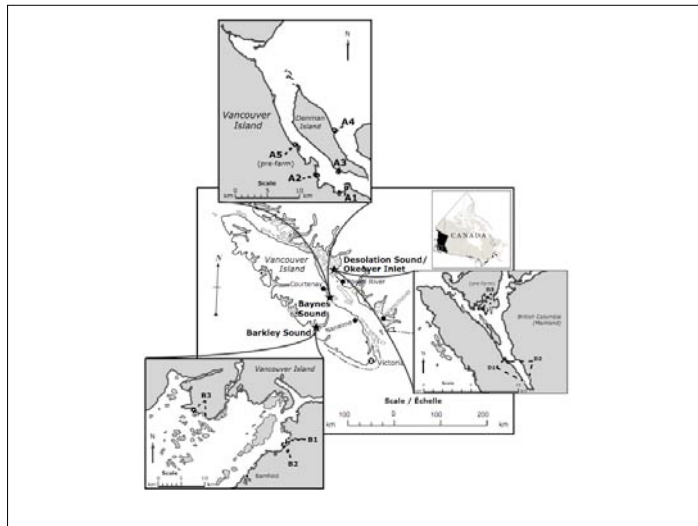




For presentation only. Do not cite, copy or distribute without the author's consent.



For presentation only. Do not cite, copy or distribute without the author's consent.



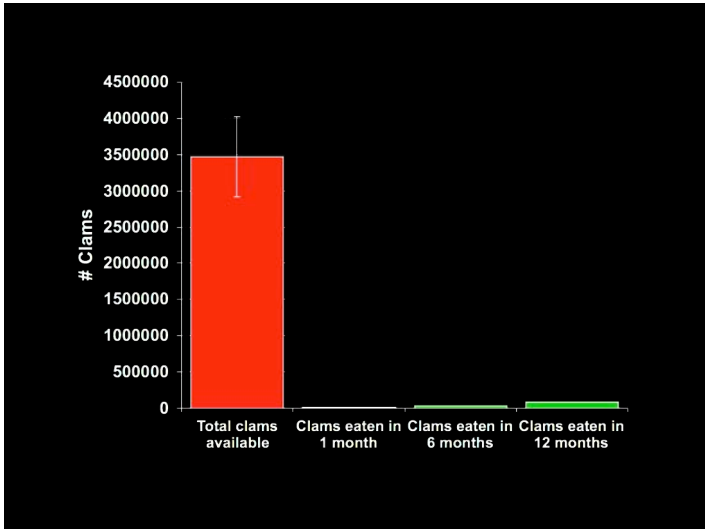
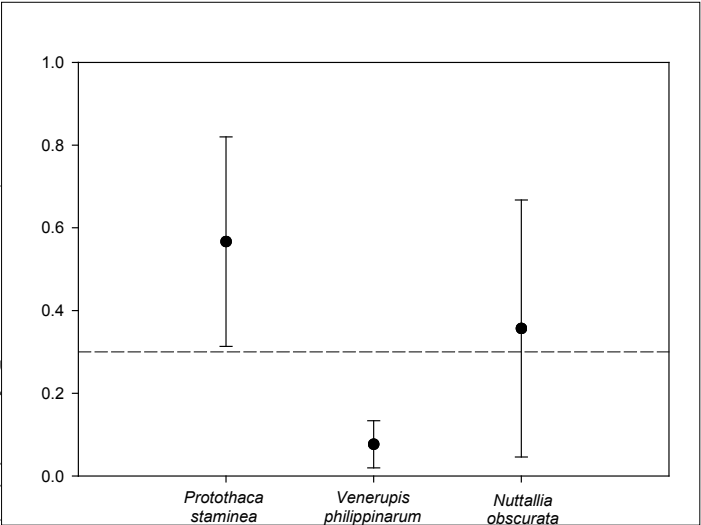


For presentation only. Do not cite, copy or distribute without the author's consent.

**Farmed beaches;** includes the use of predator netting which leads to biofouling



For presentation only. Do not cite, copy or distribute without the author's consent.





For presentation only. Do not cite, copy or distribute without the author's consent.



Not the only shellfish activity occurring on the foreshore

- Geoduck farming
- Oyster growout







**Potential Direct / Cumulative Effects of Shellfish Aquaculture**

North of Repulse Point, Denman Island

- Predator netting
- Bermes
- Vexar netting
- Equipment storage
- Vehicles on beach

Trade  Trash

for  Ice Cream

ON THURSDAY, MAY 26<sup>TH</sup>


DI MARINE STEWARDSHIP COMMITTEE

with support from the Seniors Society, Conservancy, & Community School presents the

**1<sup>st</sup> Annual Community Beach Clean Up**

You can participate by:

- walking your favorite area
- picking up beach litter and dropping it off at School on Thurs., May 26 between 2 & 6 p.m. (or call for pickup - please leave the area from ferry slip to Scott Rd) Gloves & bags available







Practices are cumulative and all have the potential to adversely affect foreshore ecology.

## Outcomes of study?

- Limited evidence that netting actually helps increase bivalve density notably at mid-tide
- Coverage of beach with netting facilitates "biofouling"
- Moon snails are not major predators
- Farmed beaches; lower diversity
- Clams communities on farmed beaches losing "regional" distinctiveness
- Visual impacts and safety considerations

## Recommendations

No clear support for use of netting within mid-intertidal zone.

Leave the Moon snails alone

Manage the intertidal such that it maintains as close to a natural state as possible

For presentation only. Do not cite, copy or distribute without the author's consent.

