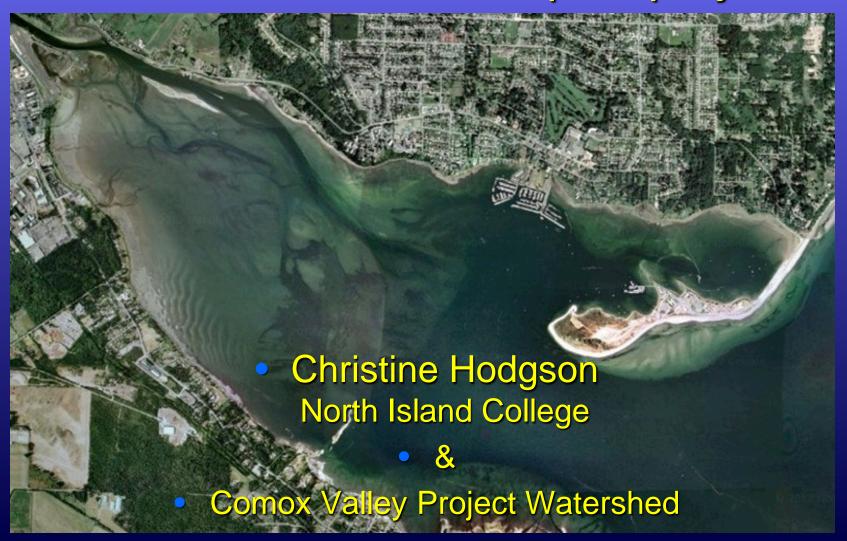
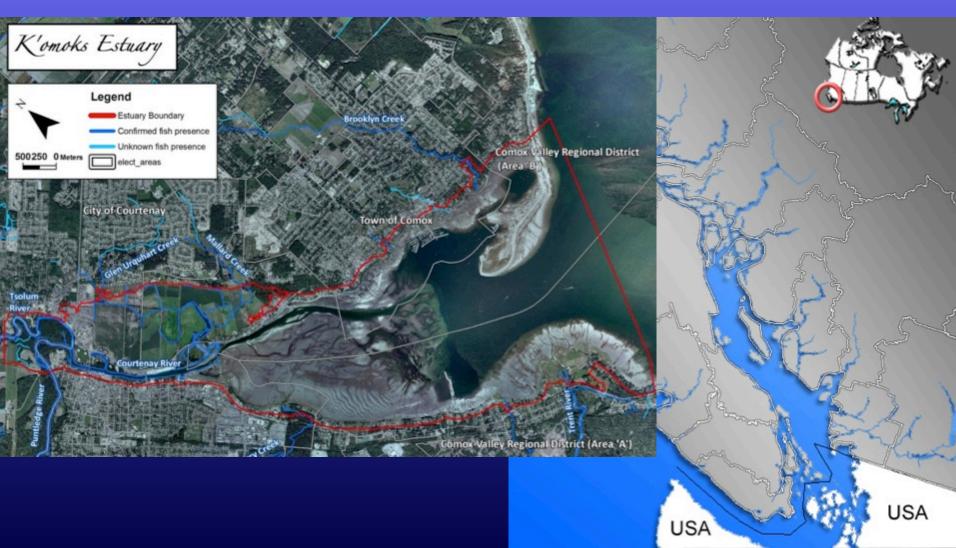


The K'omoks and Squamish Estuaries: A blue carbon pilot project





K'omoks Estuary, British Columbia, Canada



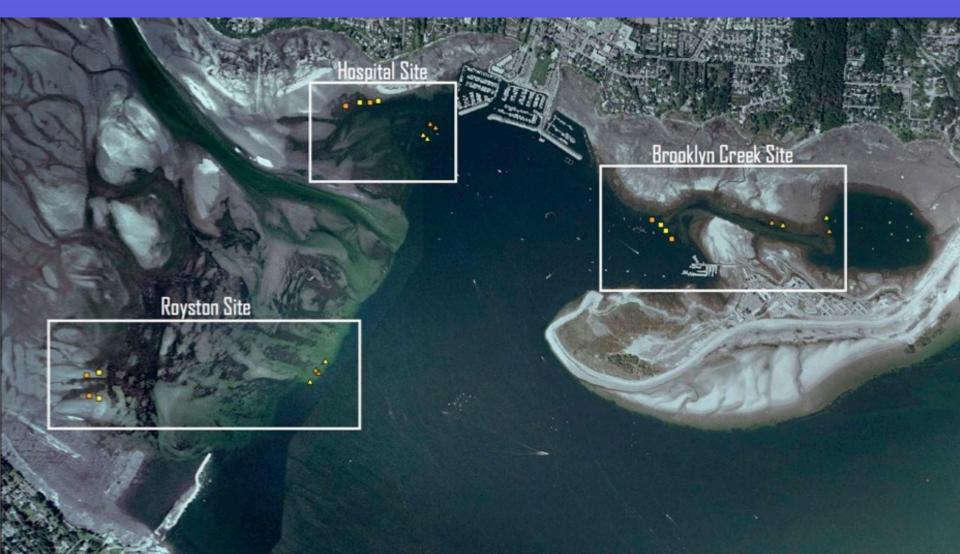


Goals for NAPECA Grant

- Develop a simple protocol for estimating stored carbon in eelgrass and salt marsh habitats
- Quantify the amount of carbon stored in these habitats as a measure per square area.
- Develop a protocol suitable for NGO's in other localities to quantify existing stored carbon and opportunities for increasing carbon storage through eelgrass and salt marsh restoration.



Study Sites





Collect Sediment Cores

Is there a difference in amount of carbon stored in sediments below a barren or vegetated area?

Coring with IOS team,
 May 21, 2014





Collect Sediment Cores





Collect Sediment Cores





Sediment Analysis

- Below Ground C sequestration
- Total Carbon TOC, TIC, sediment size, organic matter
- Burial rate use ²¹⁰Pb
- Accumulation of C due to vegetation and associated fauna – use stable isotopes ¹³C and ¹⁵N
- Extrapolate C deposition based on eelgrass cover density



Sediment Analysis

- Shallow Cores (about 50 cm)
- Total of 32 additional cores collected

 Replicate samples – Carbon below SML

May be used for stable isotope analysis



Habitat Restoration





Habitat Restoration

- 95% survival rate
- Increase in number of shoots per group





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