



Western Washington University
Western CEDAR

Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference
(Seattle, Wash.)

Apr 5th, 11:30 AM - 1:30 PM

A restoration and climate change resiliency monitoring program for coastal BC estuaries

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Miller Retzer, Connie L.; Reid, Thomas G.; and deKoning, Peter K., "A restoration and climate change resiliency monitoring program for coastal BC estuaries" (2018). *Salish Sea Ecosystem Conference*. 261. <https://cedar.wwu.edu/ssec/2018ssec/allsessions/261>

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A restoration and climate change resiliency monitoring program for BC estuaries

PROGRAM OBJECTIVES

1. Assess vulnerability to sea-level rise
2. Monitor long-term estuarine health
3. Restore natural estuarine ecosystems
4. Build relationships

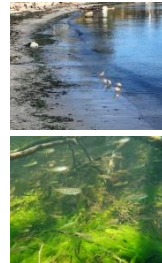
ASSESS SEA-LEVEL RESILIENCY



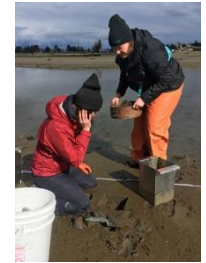
- Install Rod Surface Elevation Tables (rSET fine scale elevation changes)
- Install Data Loggers (temperature, conductivity, water level)
- Apply MARS (Marsh Resilience to Sea-Level Rise) ranking tool (Rapos a et al., 2016)



MONITOR ESTUARINE HEALTH



- Benthic macrofauna
- Marsh vegetation transects
- Coastal Waterbird Surveys
- Shorebird surveys
- Fish surveys, snorkel, seine



RESTORE ESTUARINE ECOSYSTEMS



Restore channels



- Remove dyke, berms
- Restore drainage channels
- Remove invasive plants
- Restore Lyngbye's sedge



Remove dyke



West Coast Conservation Land Management Program