

# Western Washington University Western CEDAR

Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference (Seattle, Wash.)

Apr 6th, 1:45 PM - 2:00 PM

### Identifying areas of high conservation value in Howe Sound to strengthen regional marine spatial planning

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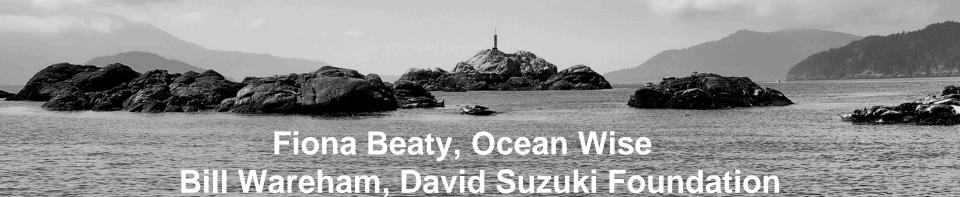
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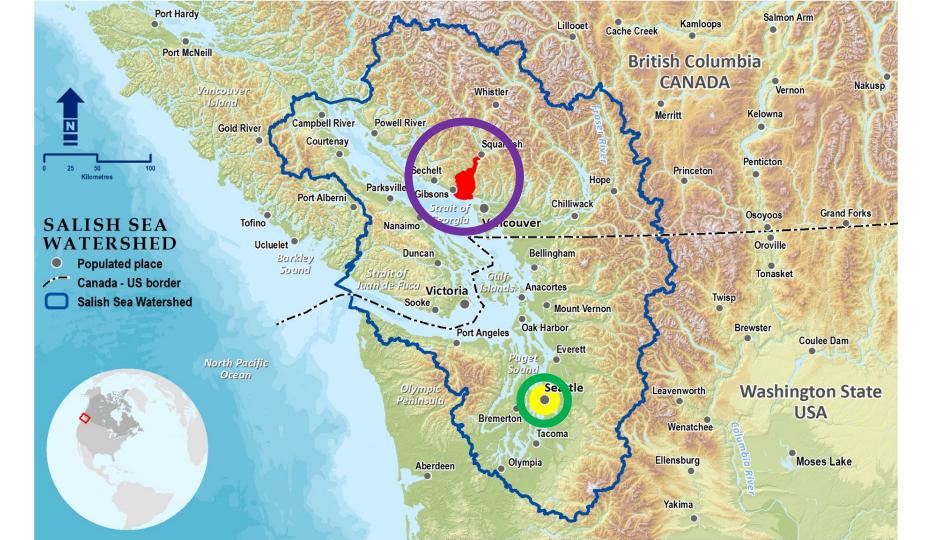
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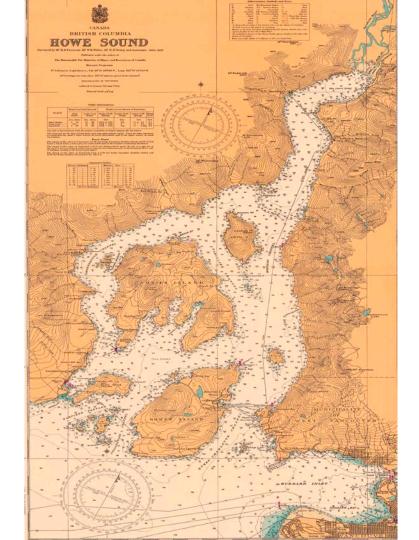
Beaty, Fiona; Schultz, Jessica; and Wareham, Bill, "Identifying areas of high conservation value in Howe Sound to strengthen regional marine spatial planning" (2018). *Salish Sea Ecosystem Conference*. 562. https://cedar.wwu.edu/ssec/2018ssec/allsessions/562

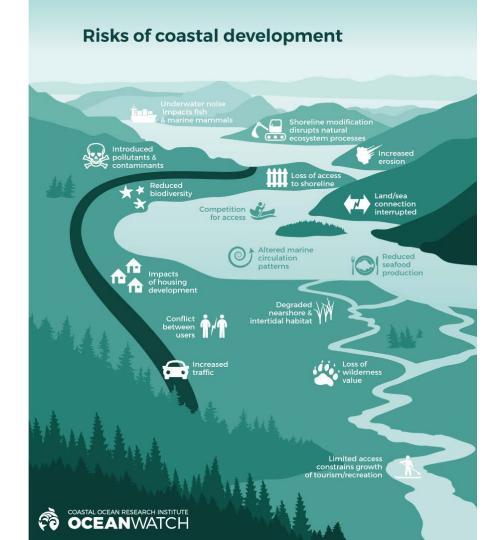
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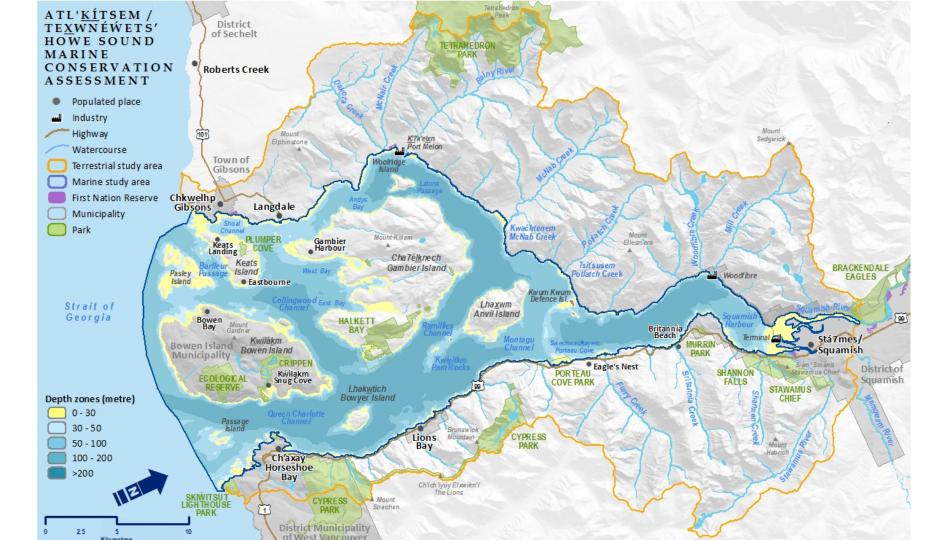












### **Project Goal**

Define a path for improving/maintaining the ecological health of the Howe Sound marine environment

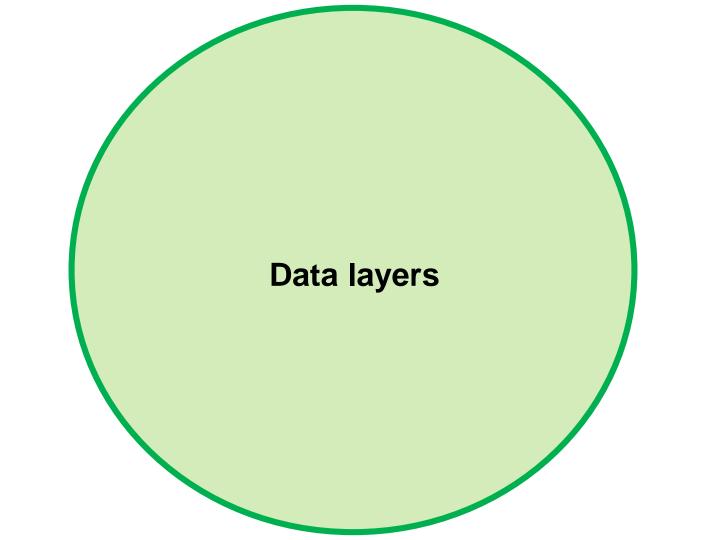
### **Project Objectives:**

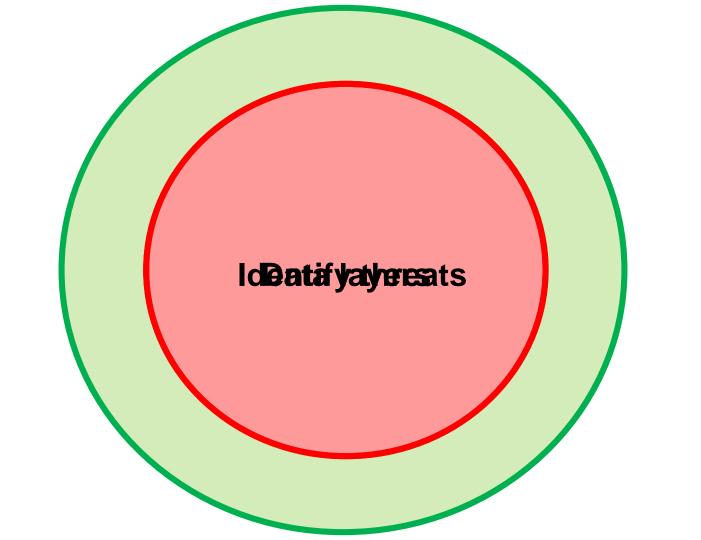
- 1. Consolidate data for ecological/cultural values in Howe Sound.
- 2. Identify areas of priority conservation needs and opportunities.
- 3. Establish an online tool that catalyzes and guides conservation action.

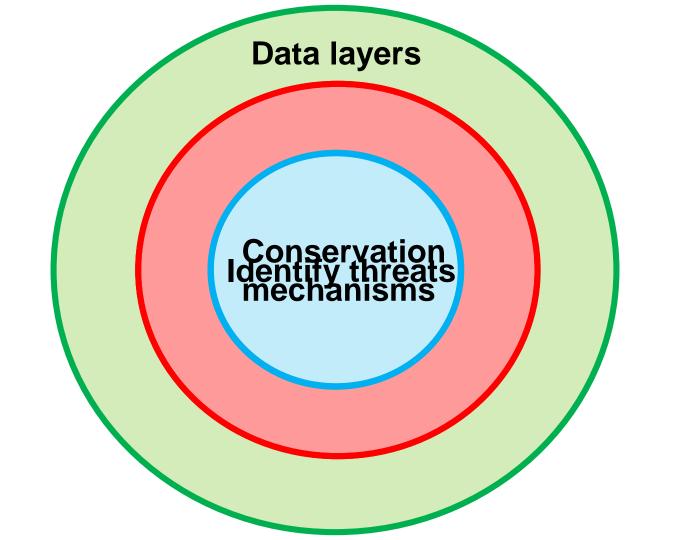
## **Project Activities**

- Field trips, interviews
- Partner with Squamish First Nation to assess and document cultural data
- Science forum
- Collate data into spatial data layers
- Conduct conservation analysis (values/threats/priorities/designations)
- Produce an interactive online map









### Spatial data layers

#### **Ecological**:

- -forage fish
- -eelgrass
- -glass sponge reefs
- -bird colonies and distributions
- -harbour seal haulouts
- -clam beds
- -herring spawning sites
- -critical habitat for fish and invert sp.
- -marine mammals

#### Physical:

- -shoreline classifications
- -watershed rivers and streams
- -bathymetry
- -coastal vulnerability and shoreline sensitivity
- -geological periods of rocks

#### Human-use:

- -diving spots and ship wrecks
- -ferry terminals
- -anchorages & moorings, docks
- -industrial centres
- -recreational fishing areas
- -forestry tenures and log storage
- -crown tenures (residential, industrial, commercial, environment)
- -municipalities
- -land use zoning and bylaws (including marine conservation, park, and recreation zones)

#### **Area designations:**

- -focal areas
- -existing protected areas (RCAs, Provincial parks, fisheries closures)
- -protected land areas (nature reserves)

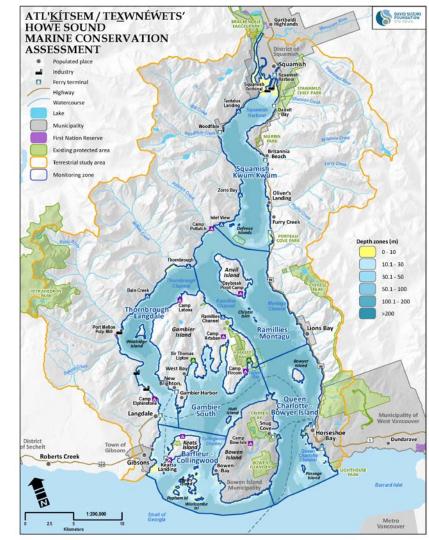
### Field trips and interviews

#### Goal:

Identify diversity of values associated with Howe Sound's marine environment (ecological, cultural, social, economic, historical, conservation)

#### Outcome:

Integrated discussions about marine habitat use, protection, and restoration









### Our conservation assessment process

- 1. Identify diversity of values associated with Howe Sound's marine environment
  - a) Ecological
  - b) Economic

- c) Cultural
- d) Social
- 2. Map data associated with diversity of values
  - a) Existing spatial data
  - b) Local ecological knowledge d)
- c) Traditional ecological knowledge
  - d) Other (non-spatial data etc.)



### Our conservation assessment process

- 3. Review, define, identify
  - a) Threats and areas of conflict
  - b) Priority areas

- c) Priority activities
- d) Integrated assessment

Climate change Absence of collaborative planning Unprotected sensitive habitats Pollution and contamination Unmanaged population growth Unawareness of best practices Limited monitoring and enforcement



### Our conservation assessment process

- 4. Recommend appropriate management activities
  - a) Legal tools
  - b) Stewardship

- c) Protection
- d) Multi-stakeholder roundtables
- 5. Motivate Stakeholders to Implement recommendations



### Integration with Howe Sound initiatives

June 2015

Howe Sound

Knowledge

Holder's Workshop

June 2017
Howe Sound
Marine Conservation
Assessment

April 2018
Howe Sound Marine
Reference Guide

2018? Squamish Marine Use plan

February 2017
Ocean Watch Report
Howe Sound Edition

July 2017
Ocean Watch
Task Force

April 2018
Regional stakeholder conservation initiatives

Photo credit: Ken McMillan

### **Acknowledgements**





AN OCEAN WISE INITIATIVE

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