

Salmon Aquaculture and Wild Capture Fisheries







Sointula Harbour

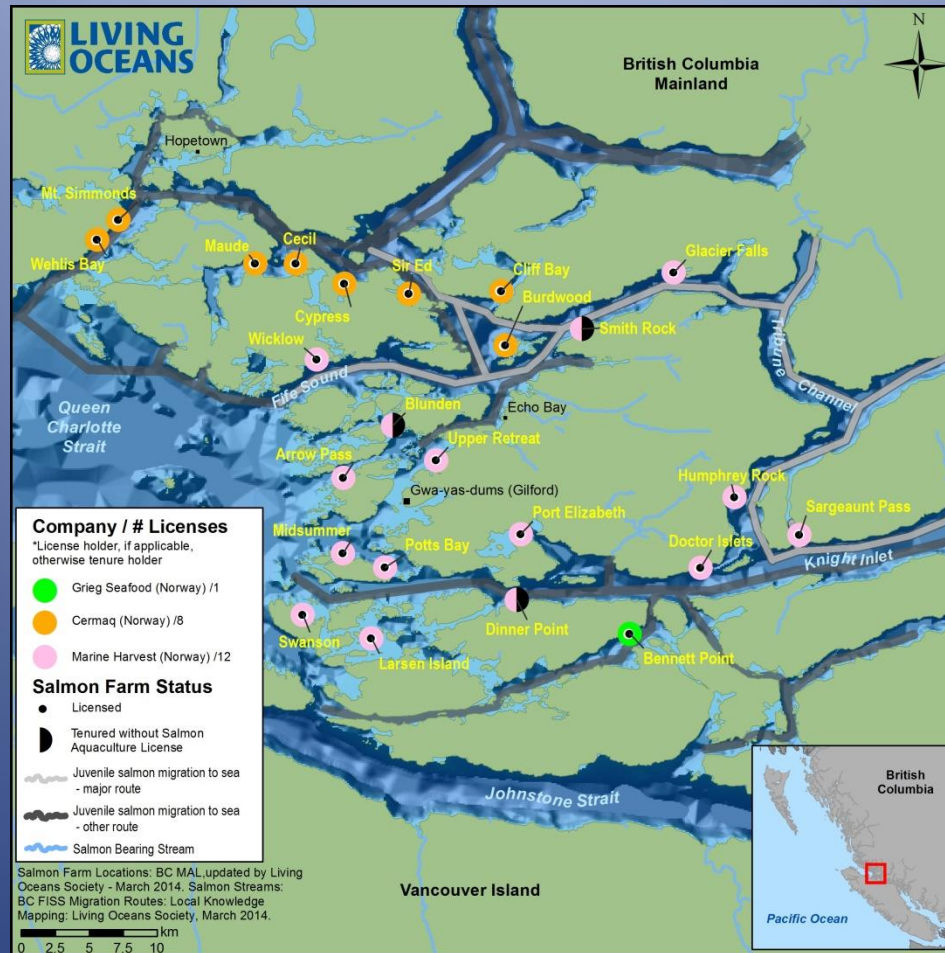




Prawn Fishing



Salmon Farming in the Broughton Archipelago





**LIVING
OCEANS**



Bennett Point

Tsa-ya



Clio Channel

Wa-kwa

Salmon Farm Tenures

-  New application
-  Licensed

Shellfish

-  Intertidal clam beds
-  300 metre buffer

Data: Grieg, Province of BC

Mapping: Living Oceans, Jan. 2015

0 0.5 1 1.5
km







Bennett Point

Tsa-ya



Clio Channel

Wa-kwa

Salmon Farm Tenures


-  New application
-  Licensed

Freshwater Atlas

-  Lakes
-  Streams

Data: Grieg, Province of BC
Mapping: Living Oceans, Feb. 2015

0 0.5 1 1.5
km



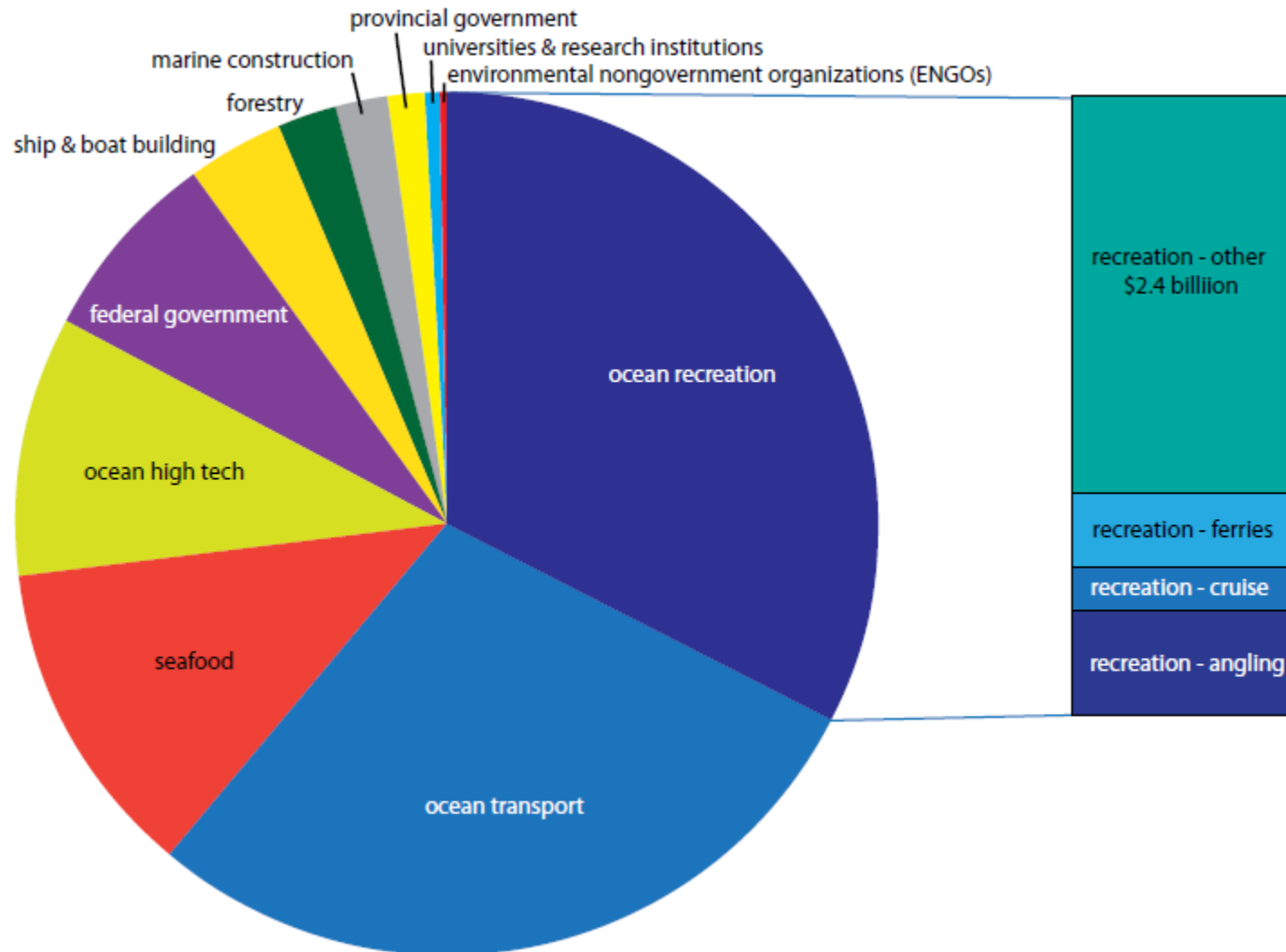
Clio Channel – Bennett Point



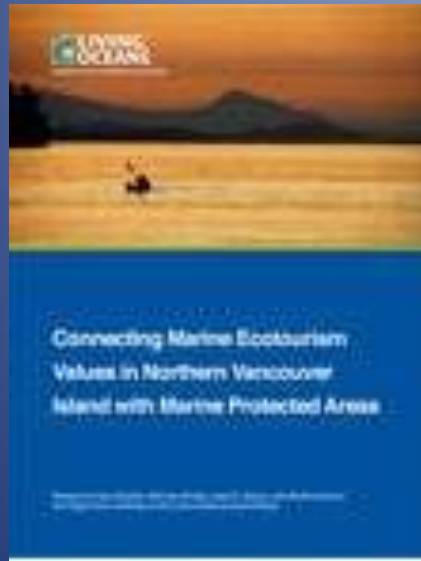
Conflict with Marine Plans

- North Island Straits Coastal Plan (December 2002) identifies management objectives:
 - Clio Channel: conservation & recreation
 - Potential for finfish aquaculture on Minstrel Is.
- North Vancouver Island Marine Plan of the Marine Planning Partnership (completed 2015)
 - Clio Channel: “special management zone”, shellfish aquaculture and First Nations interests

Total Ocean Sector Revenues & Expenditures (2005)



2013: Value of non-extractive marine recreation in this study area



\$12-15 M GDP
\$8-10 M local wages
216-282 person-years of employment



A large circular tank, likely a recirculating aquaculture system (RAS), filled with water. The water is a deep teal color, and numerous fish are visible swimming throughout. A bright light source, possibly a sun or a powerful lamp, is reflecting off the water's surface, creating a large, bright white spot. The tank's edge is visible at the top, showing a metal railing and some equipment. The overall scene depicts a controlled, land-based aquatic environment.

Land Based Closed Containment

Aquaculture operations that remove risk
and eliminate user conflicts

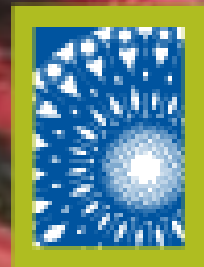
Global Trends

- **Canada has fallen behind:** Norway tightening regulation and restricting growth in open-net pen Atlantic salmon farming due to environmental impacts, while encouraging innovation in RAS
- **Export opportunities are growing:** Significant economic development opportunity in aquaculture, with demand for aquaculture products projected to increase world-wide well into the future.
- **Research and development opportunities are growing:** Norway and other European countries have increased research funding to accelerate the development of LBCC systems, developed incentive programs to support new “green licenses” technologies and provide financing for LBCC systems, increasing the feasibility and investment in commercial-scale LBCC facilities

Benefits to Communities

- LBCC can be located in any community with reasonable transportation facilities, lower costs for land acquisition
- RAS technology ensures no impact on marine environment
- Skilled labour and spin-off jobs mean more employment in local communities
- Economic benefits of clean ocean economies are not compromised

www.livingoceans.org



**LIVING
OCEANS**