



Western Washington University  
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Salish Sea Ecosystem Conference

2022 Salish Sea Ecosystem Conference  
(Online)

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Apr 27th, 9:45 AM - 11:15 AM

## Upholding diverse knowledge systems to identify marine areas of high ecological, socio-economic, and cultural value in Howe Sound/Átl'ka7tsem, British Columbia

Fiona Beaty

Myia Antone

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Beaty, Fiona and Antone, Myia, "Upholding diverse knowledge systems to identify marine areas of high ecological, socio-economic, and cultural value in Howe Sound/Átl'ka7tsem, British Columbia" (2022). *Salish Sea Ecosystem Conference*. 135.

<https://cedar.wwu.edu/ssec/2022ssec/allsessions/135>

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Art credit: Art by Di



Art credit:  
Ryan Nickerson





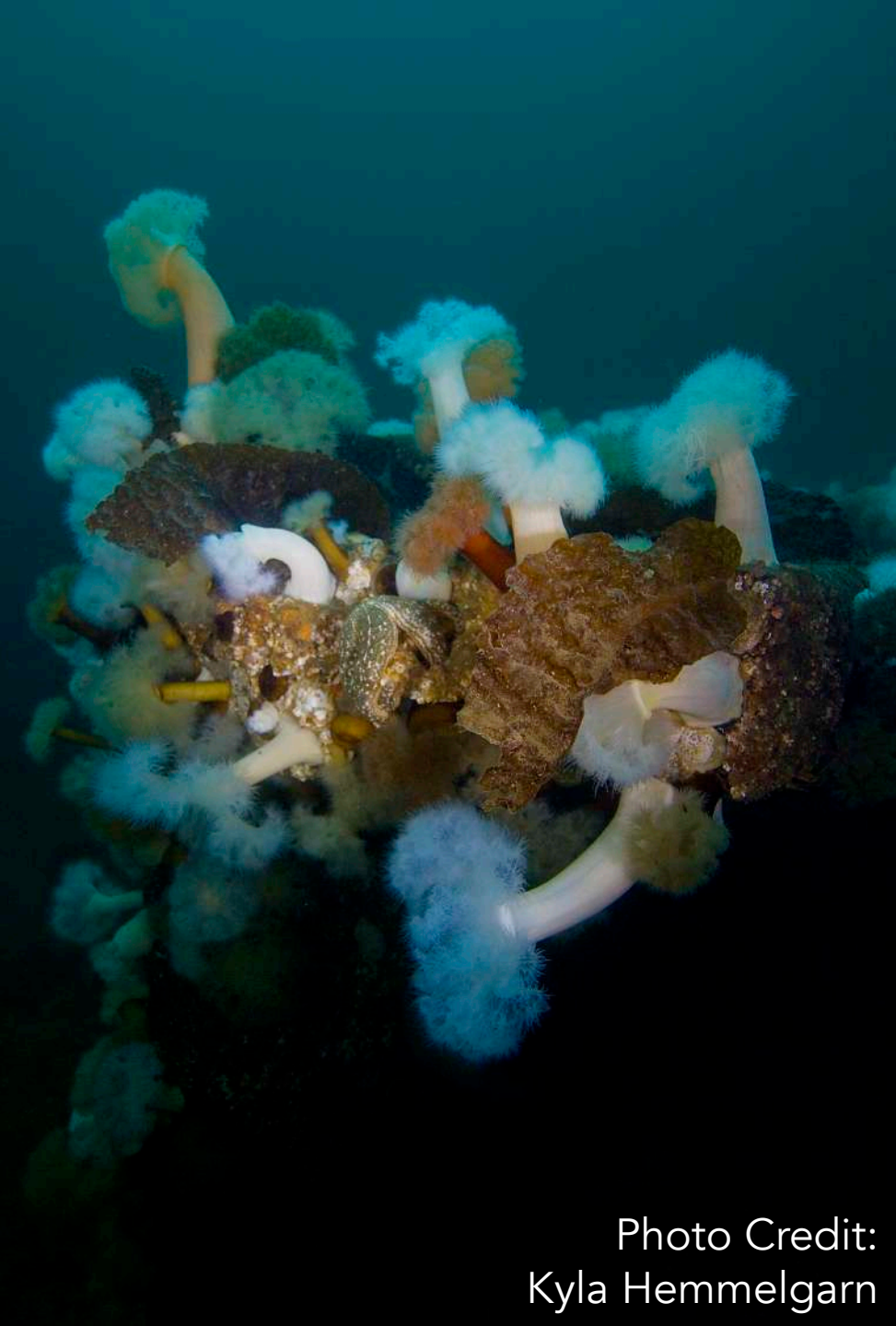
Right: Art by Di  
Left: Kieran Brownie





Art credit:  
Art by Di





# Research Questions

How do community members in Átl'ka7tsem value and connect to the ocean and freshwater?

How vulnerable are their values (economic, cultural, ecological, social) to past and present changes and pressures?

How can we protect these values in the face of growing pressures going forward?

Photo Credit:  
Kyla Hemmelgarn

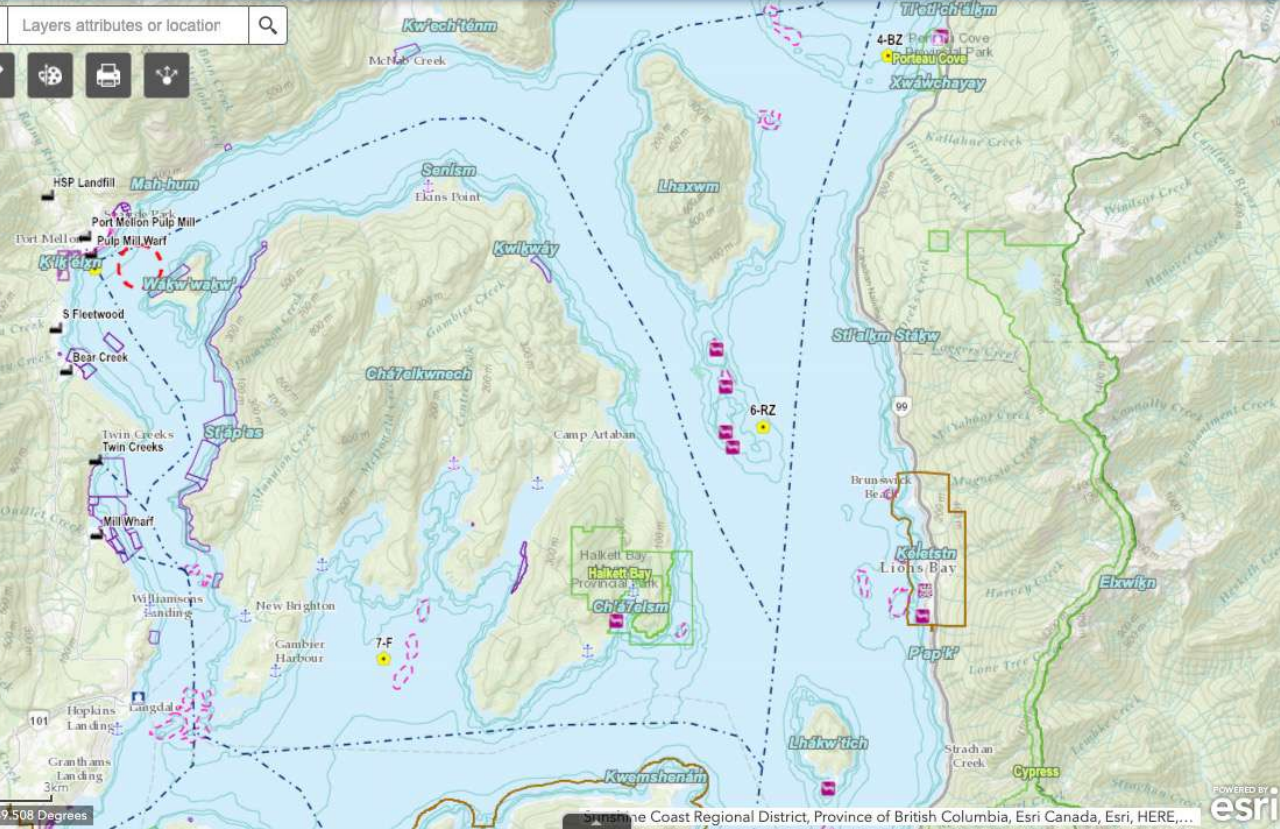


# Methods/Approach





ound/Atl'ka7tsem Marine Reference Guide CONTACT USER GUIDE



# HOWE SOUND

Surveyed by Mr. H.D. Parsons, Mr. W.K. Willis, Mr. R.E. Young, and assistants 1874-1876

Published under the orders of  
The Honourable The Minister of Mines and Resources of Canada

Miscellaneous Projection  
STARKNESS LIGHTHOUSE Lat. 49° 06' 40" N., Long. 123° 07' 47" W.

All soundings are from Mean High Water unless otherwise stated.  
SOUNDINGS IN FATHOMS  
Reduced to Lowest Normal Tides  
Natural Scale of Six

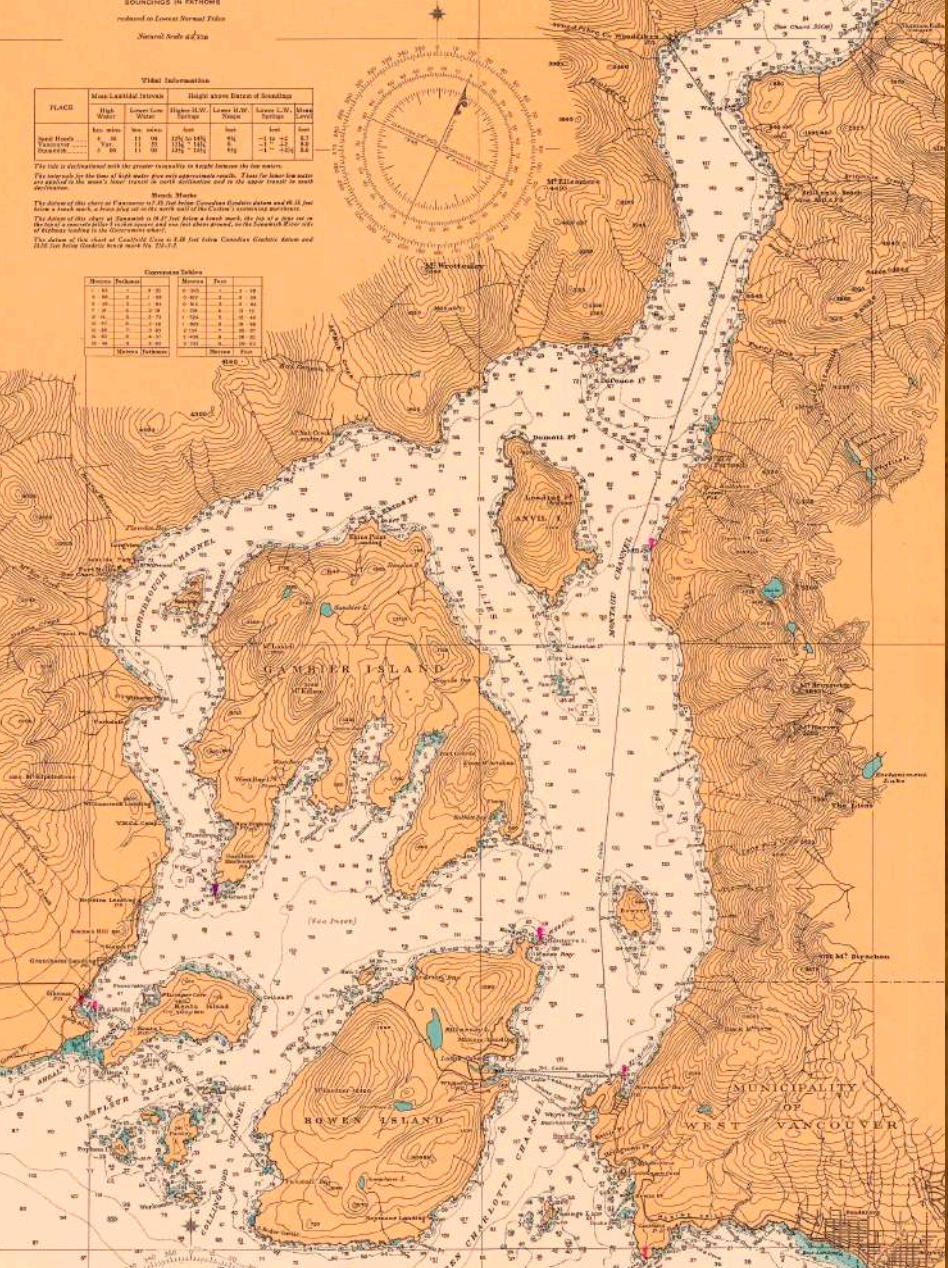
**Tidal Information**

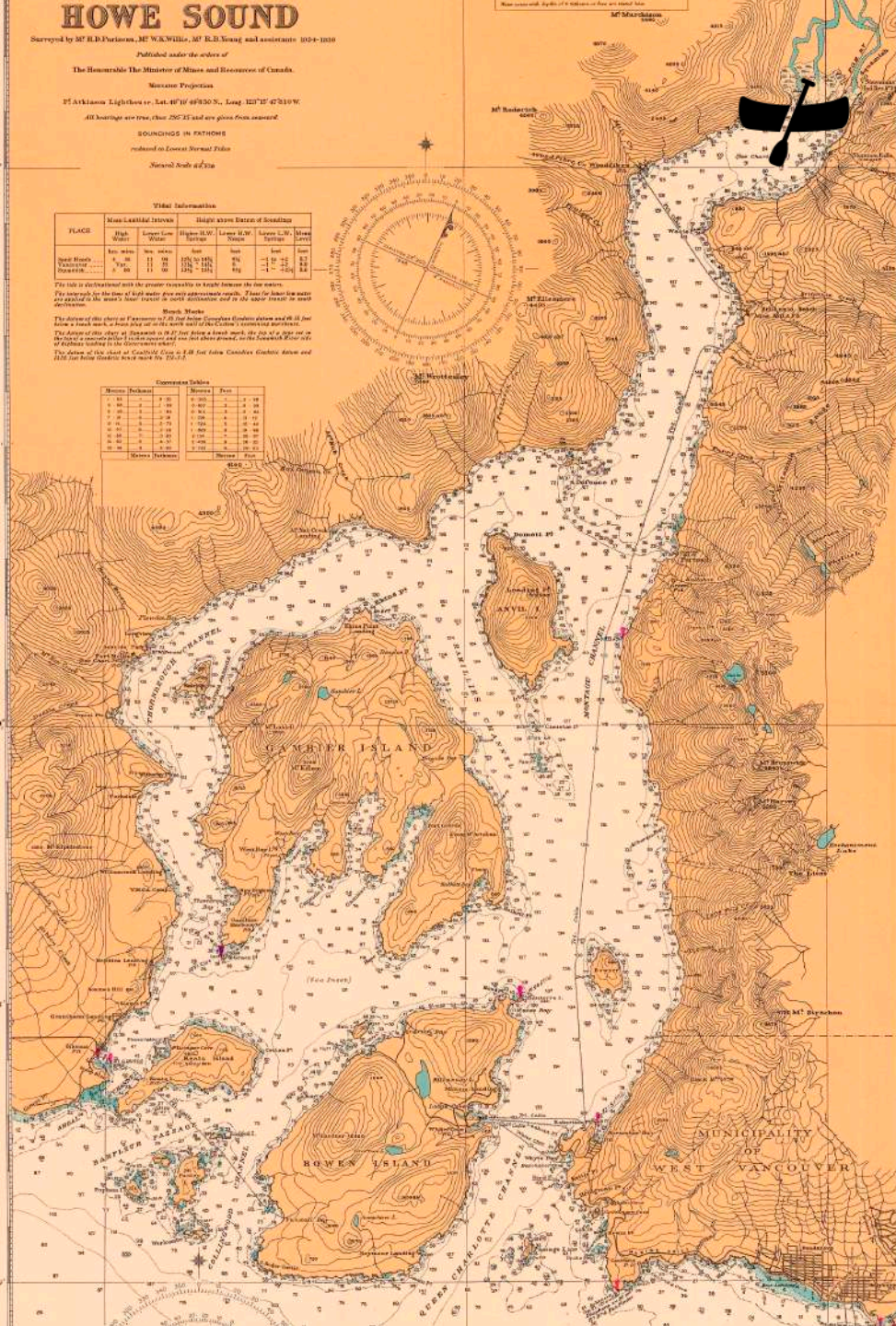
PLACE	Mean Labeled TIDES		Height above Datum of Soundings			
	High Water	Low Water	High Water	Lower High Water	Lower Low Water	Low Water
Head of Howe Sound	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
Starkness Lighthouse	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2

This table is constructed with the greatest accuracy as regards the low water.  
The soundings by the name of high water are only approximate depths. These are taken on water on a day of the moon's high transit in north latitude and in the same season as the observations.  
The datum of this chart is of reference to the mean low water of the spring tides and is not to be taken as a datum for other purposes.  
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**Conversion Tables**

Feet	Meters	Fathoms	Meters
1	0.3048	1	1.8288
2	0.6096	2	3.6576
3	0.9144	3	5.4864
4	1.2192	4	7.3152
5	1.5240	5	9.1440
6	1.8288	6	10.9728
7	2.1336	7	12.8016
8	2.4384	8	14.6304
9	2.7432	9	16.4592
10	3.0480	10	18.2880





Linda Williams 2014, Photo by Kris Krug



Photo by Dave Buzzard  
Art by Ryan Nickerson



Tsee ark a misht R.

Mt. Garibaldi

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Ka ayahumik

Taw ka mee

Squawmish River  
Ses oc ham

what ain

