

#### About Átl'ka7tsem

Howe Sound/Átl'ka7tsem is within the traditional, ancestral, and unceded territory of the Skwxwú7mesh Úxwumixw (Squamish Nation) and borders the Tsleil-waututh, Sechelt and Musqueam Nations' territories. Átl'ka7tsem is on of three Squamish Nation place names for this deep-water fjord, and describes paddling out of the fjord toward the Salish Sea. The region's waters are ecologically rich and support thriving cultures, livelihoods, and communities. Being directly adjacent to the growing metropolis of Vancouver, Átl'ka7tsem faces unique opportunities and challenges to preserving its social and ecological integrity.

#### **About the Guide**

The Marine Reference Guide's goal is to build capacity to protect, restore, and be stewards of the nature and communities that connect to Átl'ka7tsem's ocean and freshwater. We conduct research, community engagement, and relationship building to create tools and resources that effectively transform knowledge into action and support decision-making and marine spatial planning.

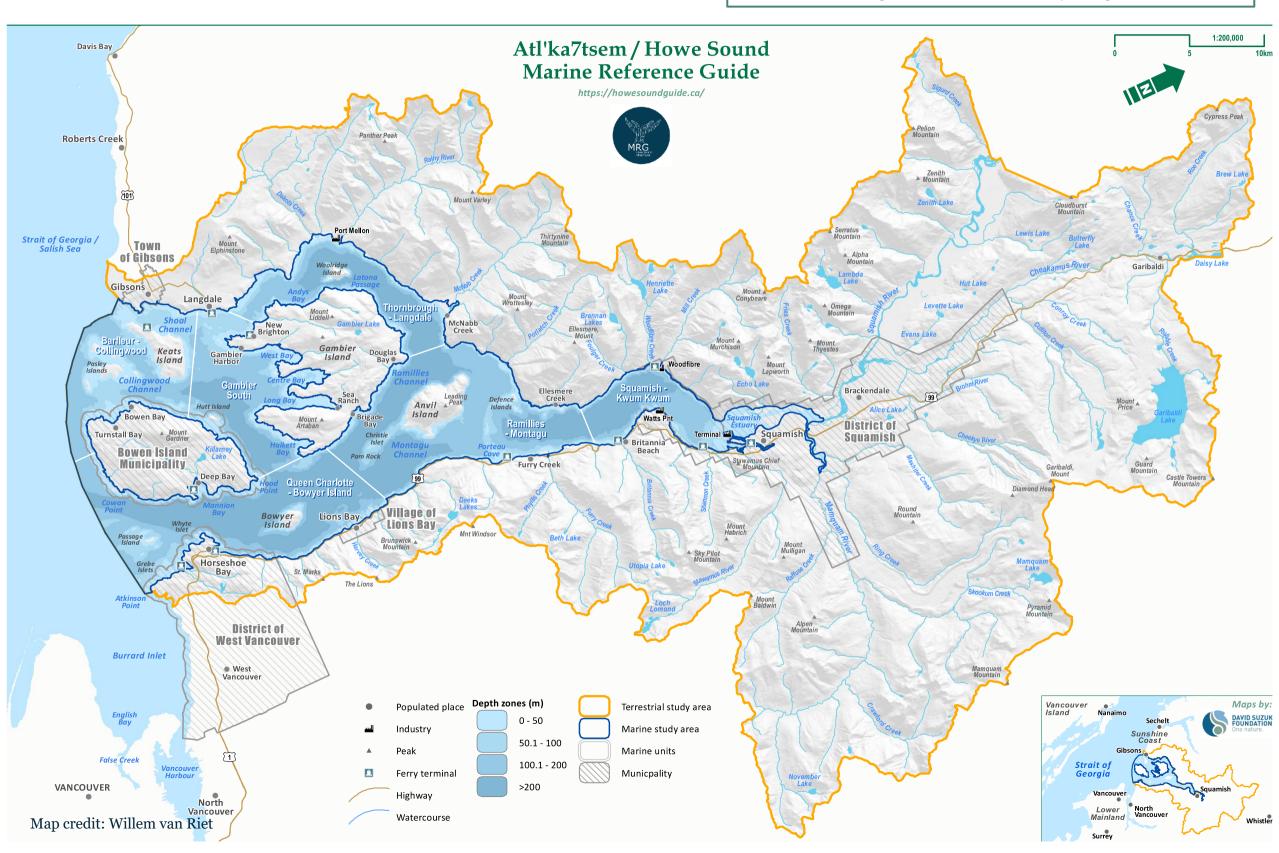
The Guide is led by diverse governments, aquatic sectors, First Nations, and community members who support the project's vision of working together to achieve positive outcomes that benefit current and future generations of human and aquatic life in Átl'ka7tsem. The Guide is a project on Tides Canada's Shared Platform, and was inspired by the Ocean Watch Howe Sound report (2017) and marine spatial planning initiatives in British Columbia (e.g. Marine Planning Partnership, Gwaii-Haanas Land-Sea-People Management Plan).

The Guide is non-binding and respects the rights and title, jurisdictions, and processes of First Nations, governments, aquatic sectors and communities. Together we acknowledge a shared responsibility for ensuring the health of Átl'ka7tsem's aquatic ecosystems and communities.

Our study area encompasses all the watersheds that flow into Átl'ka7tsem – we acknowledge the holistic and intrinsic relationships between land, people, and the sea.

"It is inspiring being a part of a team that focuses on collaborative and watershed approaches, providing a healthy mandate for future generations"

Randall Lewis, Squamish River Watershed Society and Squamish Nation member





### On World Oceans Day, here are 5 things you can do to protect Átl'ka7tsem:

#### Celebrate the Sound!

On June 8<sup>th</sup> the Guide is hosting a free story telling event from 6-8pm featuring videos, poems, songs, and stories from our community that all celebrate Átl'ka7tsem's incredible ocean!

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#### Learn and explore

Check out the amazing research and resources that document the marine life around you. Click the pictures on the next page to **start exploring!** 

#### Share your knowledge

Our strength is in community – we want to include **your** knowledge and values in our resources and tools! Visit our website or reach us at howesoundguide@gmail.com to share your perspective!

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#### Volunteer

Interested in building community? Looking to develop research skills? Passionate about making an impact? We are eager to work with you – please get in touch!

#### **Donate**

Our project flourishes on the support and generosity of community members and organizations. A gift toward the Guide supports direct, positive action toward protecting Átl'ka7tsem's environment and community for generations to come.

### Click on the pictures and buttons to explore links and resources

Register here to 'Celebrate the Sound'

Learn about Indigenousled stewardship and Guardian programs



Dive into marine conservation maps



Explore the Strait of Georgia Data Centre



Explore articles in the Ocean Watch: Howe Sound report



Donate here

Discover the magical world of eelgrass!

Visit our website: howesoundguide.ca

Learn and practice Squamish Nation place names and language through their atlas





We are grateful for the guidance and leadership from the following governments, organizations, and individuals

#### **Leadership Partners**

Joyce Williams - Squamish Nation councilor

Chris Lewis – Squamish Nation councilor

Deanna Lewis - Squamish Nation councilor

Kate-Louise Stamford – Islands Trust local trustee, co-chair Ocean Watch Task Force

Doug Race - District of Squamish councilor, cochair Ocean Watch Task Force

#### **Steering Committee members**

Sarah McJannet, Chair - District of Squamish

Jessica Schultz – Ocean Wise Research

Trevor Dunn – Sea to Sky Gondola

Adam Taylor - Underwater Council of British Columbia

Nadine Parker - Department of Fisheries and Oceans

Ken Sneddon - Sechelt Creek Contracting Ltd.

Bill Wareham - David Suzuki Foundation

Randall Lewis - Squamish River Watershed Society

Ruth Simons – Howe Sound/ Átl'ka7tsem Biosphere Region Initiative

#### **Management Team**

Fiona Beaty - Project Director

Bridget John – Research Assistant

Myia Antone - Indigenous Research and Engagement Coordinator

Nolan Rudkowsky - Indigenous Research and Engagement Coordinator

Jonathan Williams - Indigenous Research and **Engagement Coordinator** 

Willem van Riet - GIS Analyst

#### **Project Partners**

Ocean Wise Marine Conservation Association

David Suzuki Foundation

#### Thank-you immensely to our partners and supporters





























NICHOLAS SONNTAG

marine

education

















**National** Geographic **Society** 









#### Our accomplishments

## Connect information to action

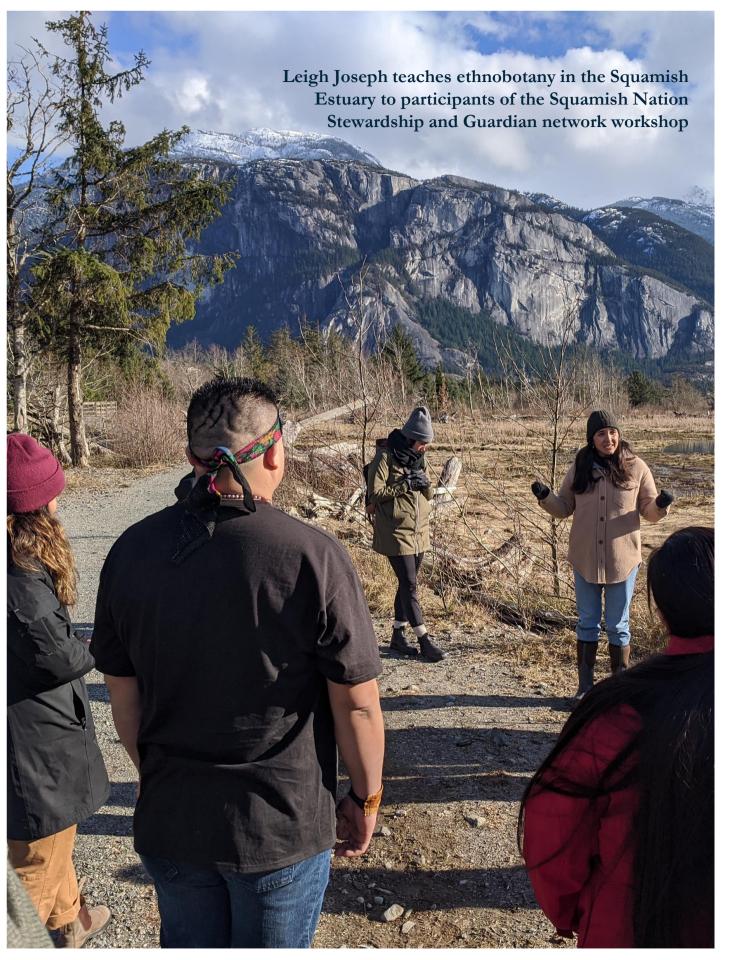
The Guide aims to create tools and resources that support marine spatial planning and decision-making by all governments, sectors, and communities, and that strengthen education and awareness of regional biodiversity and social values. In September 2019, the Guide **filled an important knowledge gap** by surveying the distribution of eelgrass along Átl'ka7tsem mainland coast. This critical baseline data has already informed policy and decision-making in Átl'ka7tsem, such as the Town of Gibsons' Coastal Resilience Project and harbour management plan.

Other research accomplishments include gathering **over 600 spatial data layers** of regional marine ecology and human activities that we are building into an online database and interactive map. One of these data layers is an online inventory of shoreline and marine debris, which we have shared with provincial and federal departments (e.g. MLA Sheila Malcolmson, Transport Canada, Coast Guard) to inform inform problem vessel inventories and policy development.

This comprehensive information will build capacity for decisionmakers and communities to protect important social and ecological values from pressures such as climate change, development, and pollution.

"We have something truly special here and everything possible must be done to help Átl'ka7tsem recover. The Guide offers the ability to see patterns of data that will provide a pathway to the best management practices for communities around the Sound."

Kate-Louise StamfordIslands Trust



#### Our accomplishments

### Empower young leaders

The Guide seeks to braid Indigenous and settler world views and knowledge systems so that we create holistic information and resources, and build strong relationships. Over the past two years, Squamish Nation youth working on the Guide as Indigenous Research and Engagement Coordinators have championed the inclusion of Indigenous youth voices, values, and perspectives in regional decision-making and stewardship. They have organized shoreline clean-ups, field trips to culturally important areas in Átl'ka7tsem, and community workshops to learn about ethnobotany and Guardian Watchmen programs. Through Guardian programs, Indigenous stewards work together to monitor and maintain ecosystem health, and to ensure that rules, regulations, and Indigenous law are followed for the protection of both nature and culture.

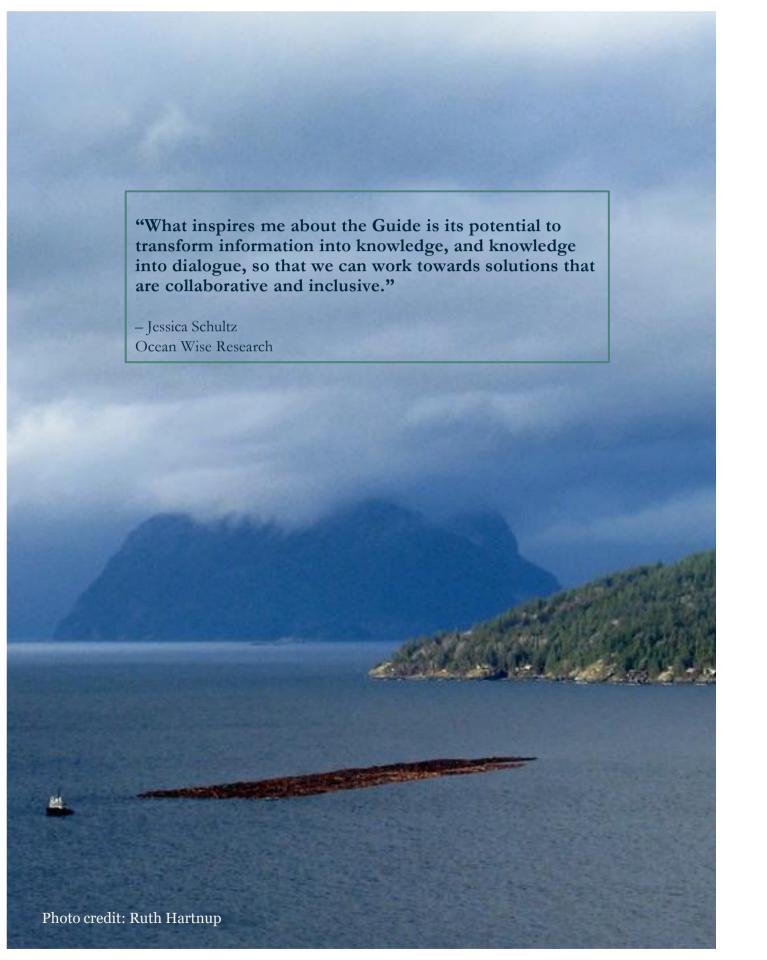
The youth are now leading a project to include the Skwxwú7mesh sníchim (Squamish language) and stories in the Guide's maps and resources so that the project reflects their values and culture and creates educational resources for generations to come.

"Átl'ka7tsem is home and has been home since time began to so many creatures, including us from the Squamish Nation. We have stories and knowledge about the Sound's ocean that are so important to listen to. Our Elders carry this knowledge and above anything else, this knowledge must be met with respect."

Myia Antone
Indigenous Research and Engagement Coordinator

"Atl'ka7tsem's ocean symbolizes who I am and where I come from... I want people to understand that it is itself a living creature, growing and healing compared to where it once was."

Nolan Rudkowsky
Indigenous Research and Engagement Coordinator



#### Our accomplishments

# Strengthen collaborative decision-making and relationships

All sectors, communities, and persons are invited to participate in the Guide's process to strengthen collaborative decision-making and relationships throughout Átl'ka7tsem. Inclusivity and trust, shared responsibility, and transparency are guiding principles for this project. To this end, we are engaging and collaborating with diverse partners. In addition to governments, Indigenous communities, and research and conservation groups, we are also working with economic sectors throughout Átl'ka7tsem (e.g. forestry, shipping and transportation, tourism and recreation) to bring their voices, knowledge and perspectives into the Guide's deliverables. We are also collaborating with the arts community and education groups (e.g. school districts, non-profit organizations, Indigenous place-based learning programs) to support the development of curricula and education resources that strengthen awareness and connection to place.

"The Guide is a project that builds community and represents a collection of knowledge, past and present, in an easily accessible tool."

– Ruth Simons Átl'<u>k</u>a7tsem / Howe Sound Biosphere Region Initiative

## SIR THOMAS LIPTON REGIONAL PARK Gambier Island Lhaxwm Anvil Island HALKETT BAY Montagu Local knowledge holders annotate maps at a workshop co-hosted by Ocean Wise and the Deeks Creek David Suzuki Foundation in April 2018

#### Our accomplishments

## Support marine spatial planning

The Guide seeks to support regional marine spatial planning by connecting and leveraging the strengths of research organizations and decision-making entities throughout the Salish Sea. Accordingly, in February 2020, we organized a workshop to convene the organizations and governments who are leading local and regional marine spatial planning with the goal of building collaborative capacity. Coming out of this workshop, we identified the **need to link our deliverables with regional databases,** maps, and frameworks to produce centralized decision-support tools that contain high resolution data and accurately reflect local values and knowledge.

This regional coordination may evolve into a marine spatial planning process that links nodes of community-based knowledge collection, research, and decision-support tools into a comprehensive and regional planning framework and network.

"Atl'ka7tsem is a great example of the capacity of nature to rebound if given a chance and the perfect place for city dwellers to connect with the marine environment. The fact that the Guide will enable better decision making and more holistic planning for the marine environment in the future is incredibly exciting."

Kilian StehfestDavid Suzuki Foundation

**July** 

Sept

March

**April** 

May

June



"There is literally an oceanic swell of connections being built around the Sound through this work. We are excited to be a part of this network - a constellation of passionate people working together to support the long-term health and revitalization of Howe Sound / Átl'ka7tsem."

Sarah McJannet District of Squamish

"Being on or around Howe Sound/ Átl'ka7tsem has always made me feel most alive and I want to ensure that Howe Sound is as magical as ever for all future generations to come.

I am continuously astonished by the strong sense of community around Howe Sound/ Átl'ka7tsem and the passion and wealth of knowledge that arises for the marine realm. I am excited for the Guide to showcase that connectedness."

Bridget JohnResearch Assistant

"Howe Sound is a favourite destination for scuba divers in the Lower Mainland and provides globally unique opportunities to dive and study glass sponge reefs within recreational SCUBA depths. The Guide not only provides an educational tool for the public, but is a reference for local and regional planners reviewing proposals that may impact the marine environment."

Adam Taylor
Underwater Council of British Columbia

"I'm excited to be witness to all the stories and history that will be shared both ancient and more recent. I'm excited to hear of all the beautiful work that's been done to revitalize Átl'ka7tsem and to have our Skwxwú7meshv history and stories shared with those who wish to learn."

– Charlene WilliamsSquamish Nation member

