

# RESEARCH PROJECT SUMMARY

## The view from 2117: Human actions, consequences, and perspectives on mountain regions

*The View from 2117: Human Actions, Consequences, and Perspectives on Mountain Regions* project seeks to understand the impact of human actions on mountain ecosystems, specifically within the Mount Arrowsmith Biosphere Region (MABR). The title of the project, *The View from 2117*, references both the vertical extent of the MABR from the peak of the mountain to the base within the Salish Sea and the timeframe under consideration in this research. The MABR boundary overlaps the Territories of 7 First Nations, 4 Biogeo-climatic Zones, and 3 local governments.

<p><b>Principal Investigator:</b> Pamela Shaw, Mount Arrowsmith Biosphere Region Research Institute, Vancouver Island University</p>	<p><b>Trainees:</b> Maria Ines, Lindsay Chase, Farhad Moghimehfar, Graham Sakaki, Courtney Vaugeois, Jessica Pyett, Ariel Verhoeks, Alisha Feser, Pierce Melnick, Jenica Ng-Cornish, Brittany Rempel, Anna Lawrence, Brad Vince, Sarah Foulkes, Karissa Sawyer, Laura Clark, Taylor Shorting, Felicia Fisher, Holly Yee, Adrian Myszka, Claire Stewart, Teneal Gagnon, Emma Ferris, Jake Rogger, Jason Bradley, Jacob Frankel, Kyla Seward, Desarae Poier, Sam Yagnyatynskyiy</p>
<p><b>Investigators:</b> Lindsay McCunn, Sylvie Lafrenière, Geraldine Manson, Vancouver Island University</p>	
<p><b>Collaborators:</b> Dee Cullen, Monica Shore, Michael Recalma, Cheryl Jones, Julie Pisani, Heather Klassen, Steve Adams, Jennifer Grant, Brandi Wong</p>	



### Project Partners



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## Objectives

The project looks to the past to examine the human impacts on the MABR and then into the future to determine how new policy and regulatory frameworks, ways of being, and advanced knowledge can be used to mitigate or eliminate these impacts.

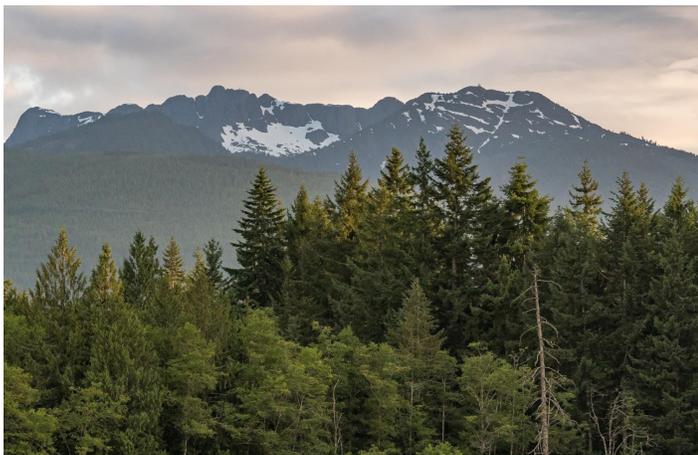
The project's key objectives are interdisciplinarity, deep partnerships, and cross-scale evaluations, which align with the CMN's Vision, Goals, and Research Themes as they speak to the interconnectedness of people, economies, cultures, and environments, and take a long-term approach to addressing the needs of First Nations, communities, and ecosystems. In the short term, the project will provide a research and engagement framework that can be replicated in Canada's other mountain biosphere reserves. Short-term deliverables include a: 1) Demographic Analysis; 2) Vital Signs Study; 3) Ecosystem Analysis; 4) Governance and Regulatory Study; and 5) Perceptual Study. In the long term, the research aims to influence how we view and regulate mountain landscapes.

## Research Plan

The methodology for this project is multi-modal and includes demographic analyses, indicator development, field research, surveys, focus groups, and psychological assessments.

## Key Outcomes & Impact

As a result of the *View from 2117* project, there were many successful outcomes. For example, research and collaboration on Deliverable #1 (Demographic Analysis) provided the foundational knowledge for other deliverables, and also resulted in a book on Snuneymuxw Traditional Place Names written by project lead, Geraldine Manson. Two community profiles were published titled, *MABR in Bloom: A Community Profile and Blooming through Adversity: A COVID-19 Report* (Deliverable #2 Demographic Analysis). Deliverable #3 (Ecosystem Analysis) resulted in two GLORIA plots that were measured for long-term plant changes in the alpine reaches of the MABR, two new plant phenology sites, and traditional plant workshops in the region, along with an open house and symposium to showcase research related to this project. Lastly, a new publication is now in development by Dr. Pam Shaw for the Governance and Regulatory Study (Deliverable #4) and a publication was released this year for the Perceptual Study (Deliverable #5) titled, *Associating sense of place and nature relatedness in the British Columbia Mount Arrowsmith Biosphere Region: a case study*.



### Contacts:

Project contact: Principal Investigator Pamela Shaw at [Pam.Shaw@viu.ca](mailto:Pam.Shaw@viu.ca)

CMN contact: CMN Executive Director, Monique Dubé at [monique@cmn-rcm.ca](mailto:monique@cmn-rcm.ca)