

BC Protected Areas Research Forum

December 12 – 14, 2022



BC Parks



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Monday December 12th

Workshop

Exploring Intersections of Park Accessibility and Park Crowding

Host: Hannah Dudney from Vancouver Island University

Time: 2:00 to 4:00 pm

Max 20 People

Full

Welcome and Reception

Come to sign in for the conference and begin socializing. There will be a reception with food and a cash bar. Last minute conference registrations can also be done at this time.

Malaspina Theatre, Vancouver Island University

6:00 pm: Conference check-in and reception

7:00 pm: **Keynote Presentation**

The Klinse-Za Caribou Herd and Protected Areas

Naomi Owens-Beek

Learn how the West Moberly and Saulneau First Nations have worked to bring the Klinse-Za Caribou herd back from the brink of extinction. Through collaboration, science, and commitment, their efforts have also led to the creation of new protected areas in BC.

This keynote presentation will be open to the public and live streamed.

Tuesday December 13th

Plenary Panel

Interdisciplinary Approaches to Including Inclusion: A Panel Discussion

8:30 to 10:00 am

Malaspina Theatre, Vancouver Island University

Inclusion, access, equity, and diversity are core values and practical lenses that can positively impact parks and protected areas research and decision-making. Too often, though, the inclusion of diverse people and perspectives is either relegated to the fringe of our work or becomes the burden of those seeking to be included. This plenary session will uplift four projects that show what it can look like when inclusion, equity, and access factor into collaboration, visitor use management, workforce development, and online media, respectively. Panelists will spark a dialogue and challenge us all to integrate inclusion in parks and protected areas research and practice.

Moderator: Dr. Don Carruthers Den Hoed, [Canadian, Parks, Protected and Conserved Areas Leadership Collective \(CPPCL\)](#)

Panelists:

- Natasha Ewing and Mark Groulx: Beyond barriers - Knowledge co-production as a solution for designing accessible and inclusive parks in northern BC (collaboration)
- Neha Dewan: Barriers and facilitators of National Park accessibility for people with disabilities: A scoping review of YouTube videos (online media)
- Hannah Dudney: Is park crowding more than an inconvenience? Experiences of people with mobility disabilities in crowded parks (visitor use management)
- Ebany Carratt: Research and Action to Advance equity, Diversity, Inclusion and Decolonization (EDID) in Protected Areas Research and Management (workforce development)

This plenary panel will be recorded and live streamed.

10:00 to 10:30 am: Break

Concurrent session 1: 10:30 am to 12:15 pm, Vancouver Island University

<p>Session 1 Symposium of studies funded by BC Parks Living Lab program Building 250 Room 120</p>	<p>Brenda Beckwith Full presentation: Building Climate Resilient Butterfly Habitat, Year 2</p>	<p>Cassandra Elphinstone Full presentation: The influence of climate change and increased recreation on alpine plants in the Nch'kay region (Garibaldi Provincial Park)</p>	<p>Courtney Mason & Carmen Massey Full presentation: Secwépemc Perspectives of Climate Change and Resiliency in Tsútswecw Provincial Park</p>	<p>Carly Hilbert Lightning talk: Alpine plant responses to increasing human trampling disturbance in the Nch'kay region (Garibaldi Provincial Park)</p>
<p>Session 2 Finding Refugia Building 250 Room 125</p>	<p>Gabe Schepens Full presentation: Synthesizing habitat models for wolverine (<i>Gulo gulo</i>): Identifying snow refugia in a changing climate</p>	<p>Christine Kuntzemann Full presentation: Predicting fire refugia across the Thompson Okanagan region of British Columbia, Canada</p>	<p>Jessica Stolar Full presentation: Using climate-change refugia and corridors to inform multi-scale conservation planning</p>	
<p>Session 3 Community Science Building 210 Room 275</p>	<p>Brian Starzomski Full presentation: The BC Parks iNaturalist Project: community science across 1035 protected areas</p>	<p>Ellyne Geurts Full presentation: Turning observations into biodiversity data: Spatial biases in community science in British Columbia</p>	<p>Tse-Lyn Loh Full presentation: Harnessing the power of community science for protected area monitoring</p>	<p>Natasha Ewing Lightning talk: Meaningful Student Learning – Participating in BC Parks' Squirrel Long-term Ecological Monitoring</p>
<p>Session 4 Tourism Building 250 Room 210</p>	<p>Yihang Zhang Full presentation: Oil & Vinegar? Exploring relationships between nature tourism and virtual experiences in the UNESCO Global Geopark in Tumbler Ridge, BC</p>	<p>Joe Pavelka Full presentation: Tourism & Parks: What's the Problem?</p>	<p>Brooklyn Rushton Full presentation: Gaining Insight on the Most Challenging Expedition: Climate Change from the Perspective of Canadian Mountain Guides</p>	<p>Elizabeth Halpenny Lightning talk: Effective environmental communications in nature-based tourism contexts</p>
<p>Session 5 Regional Park Management Building 210 Room 105</p>	<p>Lynn Wilson Full presentation: Growing a world-class regional park system – the CRD's Land Acquisition Fund</p>	<p>Emma Taylor Full presentation: Evolution of the CRD's regional trail network</p>	<p>Todd Shannon Full presentation: Developing community partnerships to manage mountain biking within regional parks</p>	<p>Sarah Forbes Slam: Regional parks' sustainable service delivery</p>

12:15 to 1:30: Lunch

Concurrent session 2 1:30 to 3:45 pm Refreshments to be provided partway through session. Vancouver Island University

<p>Session 6 Symposium of studies funded by BC Parks Living Lab program Building 250 Room 120</p>	<p>Lauren Erland Full presentation: Wildfire impacts on endemic Okanagan plants</p>	<p>Matthew Csordas Full presentation: Distribution of critical blue carbon habitats within the coastal waters of BC Parks around Vancouver Island in the context of climate change</p>	<p>Sara Mynott Full presentation: Managing for future change: identifying climate vulnerability, resilience and management options in parks with a marine component</p>	<p>Stefano Mezzini Full presentation: How climate change will shape the future of human wildlife conflict in B.C.'s protected areas</p>	<p>Courtney Collins Lightning talk: Below ground impacts of experimental warming and summer flooding in alpine plant communities in the Nch'kay region (Garibaldi Provincial Park)</p>
<p>Session 7 Human Dimensions Building 210 Room 105</p>	<p>Devin Holterman Full presentation: A Social Science Research Agenda for the Yellowstone to Yukon region</p>	<p>Jorden Dye Full presentation: We Don't Talk About Finance: The Overlooked Tool in Protected Areas Sustainability</p>	<p>Rod Davis Full presentation: BC Elders Council for Parks Dialogues on Protected Areas and Climate Change – What We Heard and Mapping a Path Forward</p>	<p>Hannah Dudney Lightning talk: Pro-environmental behaviour in The Mount Arrowsmith Biosphere Region, BC: Motivations, emotions, & ecological worldviews</p>	<p>Dayna Weststrate Lightning talk: How climate change and population growth will interact to shape the future of attendance at BC Parks</p>
<p>Session 8 Conservation Case Studies Building 250 Room 105</p>	<p>Erica McClaren Full presentation: BC Parks and Gabriola Land and Trails Trust Collaborative Restoration Actions in a Garry oak ecological community in Drumbeg Provincial Park</p>	<p>Wayne Stetski Full presentation: A Critical Piece in Yellowstone to Yukon - Conservation Options in the Elk and Flathead River Valleys</p>	<p>Marc Edwards Full presentation: Regional disturbance mapping in SE Yukon and applications to conservation planning</p>	<p>Becky Edwards Full presentation: Satellite-based wetland mapping to support Indigenous Protected and Conserved Area in northern BC</p>	<p>Pierre Vernier Lightning talk: Applications of disturbance mapping to conservation planning</p>
<p>Session 9 Recreation and Wildlife Building 250 Room 205</p>	<p>Annie Pumphrey Full presentation: Lessons from Kananaskis: Expert and visitor perceptions of roadside bear viewing management</p>	<p>Talia Vilalta Capdevila Full presentation: Multiple spatial data sources improve mapping of recreation trails in eastern British Columbia</p>	<p>Annie Loosen Full presentation: Who, what, when, where: Next-generation modeling to predict recreational use in eastern British Columbia</p>	<p>Kaitlyn Gaynor Full presentation: The influence of recreation on animal movement in US National Parks</p>	<p>Kate Field Lightning talk: Applying risk-allocation theory to wildlife behaviour during ecotourism: grizzly bear viewing in Tweedsmuir Provincial Park, Nuxalk Territory</p>
<p>Session 10 Protected Areas Management Building 210 Room 110</p>	<p>Steve Hodgson & Ernie Tallio Full presentation: Kitasoo Xai'xais Nation, Nuxalk Nation and BC Parks Indigenous Guardian Pilot Project</p>	<p>Ethan Ward Full presentation: Leading Canada's Parks System Through COVID-19</p>	<p>Cameron Eckert Full presentation: Connecting ecological integrity and cultural continuity at Qikiqtaruk-Herschel Island Territorial Park, Yukon</p>	<p>Megan Beveridge Lightning talk: BC Parks Green Plan – Living our Sustainable Vision</p>	<p>Chris Oberg Lightning talk: Indigenous Protected and Conserved Areas Certificate – Building Capacity for Conservation Professionals in BC</p>

Reception and poster session hosted by the Yellowstone to Yukon Initiative

6:00 to 9:00 pm

Food and drink service from 6:30 to 8:15

Nanaimo Museum



Posters:

Catherine Jacobsen, BC Parks

BC Parks West Coast Region Climate Change
Vulnerability Assessment

Jamie Clarke, BC Parks Foundation

Density estimation using camera traps: what is
possible?

Madeleine Wrazej, University of British Columbia

Non-Invasive Sampling to Assess Impacts of
Recreation on Mountain Goats in Banff and Yoho
National Parks

Moe Nadeau, Simon Fraser University

Exploring Ethical Space for land use planning in the
Upper Columbia region of British Columbia

Morgan Davies, Capital Regional District

Innovative approaches to mitigating ecological
impacts: a restorative justice case study

Mu He, University of Alberta

Recreation's impact on river conservation behaviors

Pierre Vernier, University of Alberta

Designing Conservation Areas for Biodiversity
Persistence

Rebecca Smith, University of Victoria

Looking at the big picture: using wildlife camera
traps to understand the impacts of human
disturbances on large mammals in and around
Canada's Mountain National Parks

Tyler Chai and Allen Zhao, University of British Columbia

Responses to warming of alpine plants: above-
ground phenology and greenness in the
Nch'kayregion (Garibaldi Provincial Park)

Wednesday, December 14th

Plenary Panel

Knowledge Mobilization in Parks and Protected Areas: What knowledge, whose knowledge, and how to close knowledge-action gaps.

8:30 to 10:00 am

Malaspina Theatre, Vancouver Island University

Knowledge created and co-created to support decision making in parks and protected areas has been a topic for some time. Unfortunately, there is still a gap between knowledge and action. This knowledge mobilization gap is apparent to many academic researchers, but substantial gaps also occur between decision makers and two other types of knowledge holders: Indigenous Peoples and other local knowledge holders. This plenary session brings together research from five distinct Canadian case study sites (Tofino-Clayoquot Sound Biosphere Reserve; Bruce Peninsula; Pinery Provincial Park; Kananaskis Valley; Beaver Hills Biosphere Reserve). Our team of researchers, practitioners, and community members will present an overview of outcomes from each case study and lead an interactive discussion with all attendees related to the production, movement, value, and use of various forms of knowledge in parks and protected areas.

Moderator: Dr. Rob Ferguson, Vancouver Island University

Panelists: Clara-Jane Blye (PhD Candidate, University of Alberta/Dalhousie University), Dr. Don Carruthers Den Hoed (University of British Columbia), Terry Dorward (Tla-o-qui-aht Tribal Parks), Dr. Elizabeth Halpenny (University of Alberta), Dr. Glen Hvenegaard, University of Alberta), Michelle Murphy (PhD Student, University of Alberta), Dr. Rick Rollins (Vancouver Island University)

This plenary panel will be recorded and live streamed.

10:00 to 10:30: Break

Concurrent session 3: 10:30 am to 12:15 pm, Vancouver Island University

<p>Session 11 Inventory, monitoring and modelling Building 250 Room 210</p>	<p>Mirjam Barrueto Full presentation: Protection status, human disturbance, snow cover and trapping drive density of a declining wolverine population in the Canadian Rocky Mountains</p>	<p>Jenny Heron Full presentation: Native Bees of BC's Parks and Protected Areas</p>	<p>Laura Stewart Full presentation: Wildlife Monitoring in Indigenous Protected Areas in the Northwest Territories</p>	<p>Siobhan Schenk Lightning talk: Long-term monitoring of algal biodiversity in Stanley Park.</p>	
<p>Session 12 Focus on People Building 250 Room 205</p>	<p>Craig Paulson Full presentation: People with mobility impairments accessing parks: exploring survey results</p>	<p>Matthew Bowes Full presentation: Westwood Ridge, Conflicting Place Meanings and Natural Resource Management</p>	<p>Catherine Reining Full presentation: The 'Healthy Parks-Healthy People' Movement in Canada: Progress, Challenges, and an Emerging Knowledge and Action Agenda</p>	<p>Lane Arthur Lightning talk: A Three-pronged Approach for Identifying Quality of Life and Well-Being Indicators in Parks</p>	<p>Alison Whiting Slam: Improving accessibility of Canada's National Parks for people with disabilities</p>
<p>Session 13 Conservation Planning in IPCAs Building 210 Room 275</p>	<p>Norm MacLean Full presentation: Kaska's Vision for the Land – Dene K'éh Kusān</p>	<p>Sophia Graham Full presentation: Traditional Ecological Knowledge (TEK) in Northwestern BC Parks: A Framework for Socially Responsible Environmental Planning and Management</p>	<p>Christopher Morgan Full presentation: Systematic Conservation Planning in Tsay Keh Dene Territory: Incorporating Climate Change and Interweaving Traditional Ecological Knowledge</p>		
<p>Session 14 Mammals and Movement Building 250 Room 125</p>	<p>Cheng Chen Full presentation: Global camera trap synthesis highlights the importance of protected areas in maintaining mammal diversity</p>	<p>Jason Fisher Full presentation: Wolverines: A synthesis of global conservation ecology research, with a focus on the role of protected areas.</p>	<p>Ryan Gill Full presentation: Movement ecology of southern mountain caribou in response to COVID-19 lockdowns</p>	<p>Laura Eliuk Lightning talk: Protected areas best explain the occurrence of mammalian predator species in Canada's Rocky Mountains</p>	

Lunch & Conference Wrap-up

Workshop

Improving monitoring of protected area effectiveness for terrestrial mammals using camera traps.

Host: Dr. Cole Burton, University of British Columbia

Time: 3:00 to 5:30 pm

Max 35 People

Full