Arctic Peoples, Culture, Resilience and Caribou



Arctic Athabaskan Council

www.arcticathabaskancouncil.com

Gwich'in Council International

www.gwichin.org

Dene Nation

www.denenation.org

Inuit Tapiriit Kanatami

www.itk.com

Inuit Circumpolar Council

www.inuitcircumpolar.com

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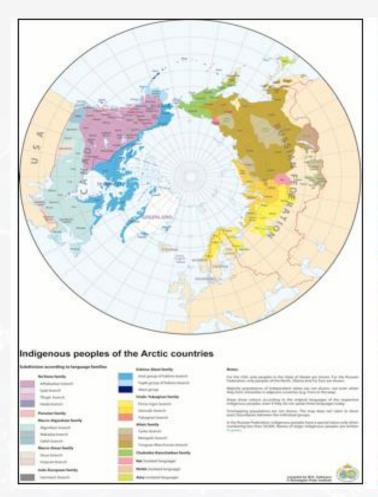








Communities and Caribou Workshop (March 4-5, 2010)







Collaborative Projects - IPY

- Communities and Caribou Workshop (March 4-5, 2010)
 Arctic Athabaskan Council colleen.henry@cfyn.org
- Intergenerational Resilience in Aklavik, NWT
 Andrea Rawluk, University of Alberta / Bonnie Koe, Aklavik <u>ajrawluk@ualberta.ca</u>
- Perspectives on Caribou Population Change in Tuktoyaktuk
 Raila Salokangas (Raila Dollevoet), University of Alberta <u>raila.salokangas@gmail.com</u>
- Archival Record Review on Caribou Management in the NWT (1900-1961)
 Lindsay Lizitsa, Teya McNabb and Frank Tough, University of Alberta ftough@ualberta.ca
- Land Use as Management: Re-imagining the Déline Renewable Resource Council in a Self-Government Era
 - Dr. Ken Caine, University of Alberta <u>-kcaine@ualberta.ca</u>
- Indigenous Peoples and Climate Change
 Ursula King, National Centre for Epidemiology and Population Health, Australian National University, Canberra, ACT. ursulaking@ausdoctors.net

Collaborative Projects – SSHRC, Social Economy Network of the North

Caribou Harvesting in Tetlit Zeh (Fort McPherson), NWT

Kristine Wray – <u>kewray@ualberta.ca</u>

Sharing What You Have': the Distribution of Caribou Meat in Fort Good Hope NWT,
 Canada

Roger McMillan, University of Alberta – roger3@ualberta.ca

Food Security in Paulatuk, NWT

Zoe Todd – zoe.todd@gmail.com

The Meaning of Education in Tuktoyaktuk

Raila Salokangas (Raila Dollevoet), University of Alberta - raila.salokangas@gmail.com

 Our Elders are Our Scientists: A Discourse Analysis of Western Scientific and Dene Language in the Transcripts of the Sahtu Renewable Resources Board Hearings on the Bluenose West/East Caribou Herds (2009)

Robert Bechtel – <u>rbechtel@ualberta.ca</u>

Trends in Dietary Behaviour in Boom-Bust Resource Communities in the NWT
 Angie Chiu - angie.chiu@ualberta.ca

What is resilience?



Local Meanings

- Gihhàhtaii (to be strong)
- Qapinnailaq (to never give up)

interdisciplinary (health sciences, sociology, ecology)

Ability to respond, cope, mitigate, manage and/or adapt to stress;

- Recognize the nature of the stress perceived and/or presented to community;
- Identify what resources and capabilities that are available at different scales (individual, community, regional, etc.);
- Consider social and ecological implications (feedback within the social-ecological system)

Resources / Capacities

- Positive outlook on life
- Self-efficacy and 'mastery'
- Income (employment)
- Education
- Strong social networks
- Cultural Continuity (cultural practices)
- Strong spiritual beliefs connection to the land;
- Self-Determination, Responsive and participatory systems of governance

Communities and Caribou Workshop (March 4-5, 2010)

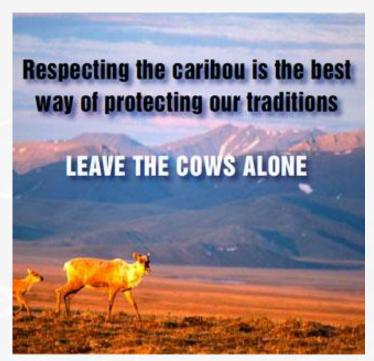
• Hunters, elders, resource managers, and youth from 16 communities in Nunavut, Northwest Territories and Yukon participated in the meetings. Other participants included resource people from partner organizations, biologists, graduate students and researchers from the University of Alberta and Trent University, University of Manitoba and Environment Canada/Parks Canada. The workshop revealed similarities and differences in community knowledge, perceptions and responses to both the biophysical and governance dimensions of caribou population change in relation to more than 14 caribou herds.

What are the experiences of caribou population variability and change across these regions?

What are the socio-economic, cultural impacts of variability/change?

How are individuals, households, communities dealing with these effects?

Perspectives on Caribou Population Change









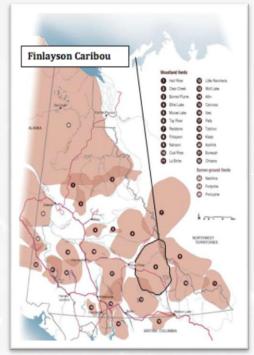


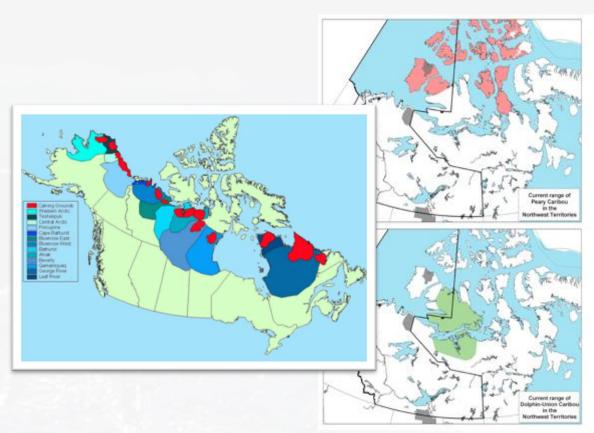




What are the experiences of caribou population variability and change across these regions?

Perspectives on Caribou Population Variability / Change



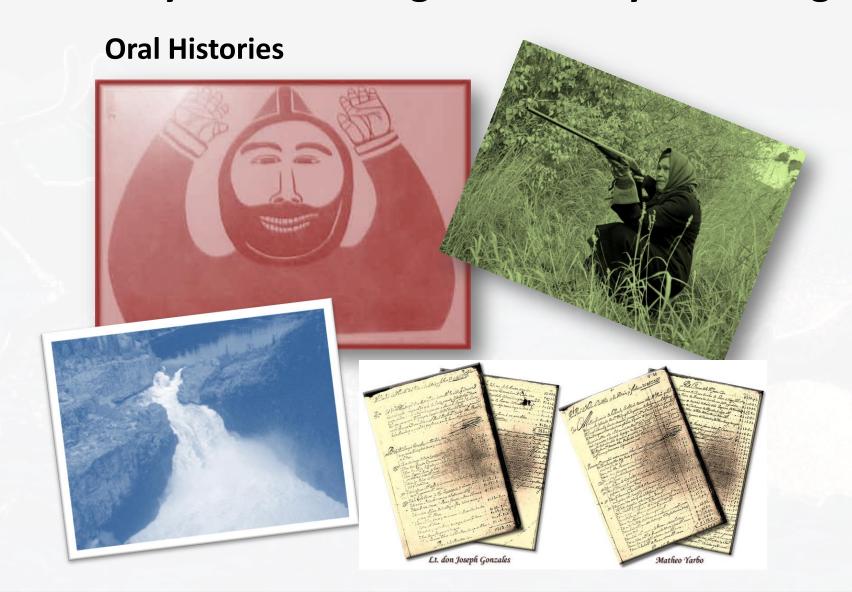


Boreal Caribou

Barren Ground Caribou

High Arctic / Peary Caribou

Perspectives on Caribou Population Variability / Change Two ways of Gathering Community Knowledge



Perspectives on Caribou Population Variability / Change Two ways of Gathering Community Knowledge

Hunting	Number of	Number of	Nearest Landmark	Total Nights	Number of years	Total number
Area	Trips to Area	Trips to Area	to Hunting Area	Stayed	hunting in this area	of days
	in Fall/Winter	in Spring	and Place name			(column 2 + column 4)
Area 1						1
Area 2						2
Area 3						3
Area 4						4
Area 5						5

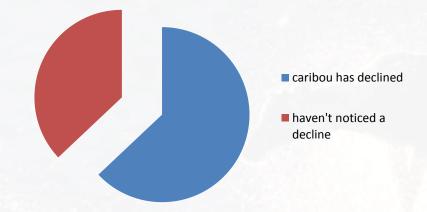
Where and how many caribou have you harvested in the last six months, year?

What are the perceptions of caribou health?

What kinds of changes (trends) have you observed in caribou population in recent years?

What factors influence population change?

What rules for respecting caribou do you follow when hunting?

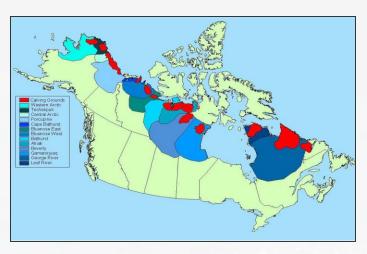


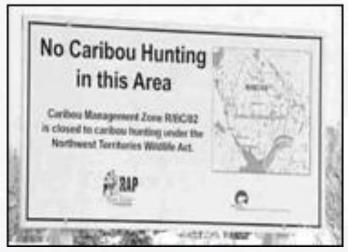
What are the effects of declining caribou?

What are the impacts of declining availability and access to caribou?

Relationship to the Land

- Greater uncertainty about harvesting –
 no longer find caribou in the same
 places (e.g. working harder for caribou
 focusing on other kinds of traditional
 foods);
- Politicized landscape
 - thinking about/across land claim and territorial boundaries;
 - new boundaries e.g. 'no hunting zones');
 - critically reflect on boundaries given to specific herds (e.g. fixed versus dynamic herd structure);





What are the impacts of declining availability and access to caribou?

Food security and Health

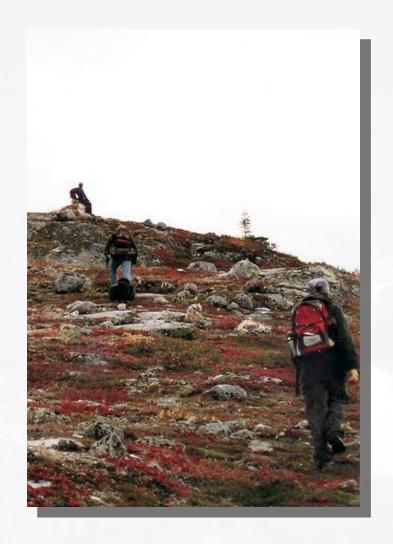
- what are the alternatives when caribou is not available for the table?
 - · other traditional foods;
 - food from the store;
- individual decision-making (socio-economic versus nutritional tradeoffs);
- community/regional government influences (contradictions/confusion between conservationist versus health promotion ideology);



How are individuals, households, communities dealing with these effects?

Dealing with Variability and Change Community Elders, Adults and Youth

- Youth, adults and elders have similar degrees of employment (income), education and social support but differ in terms of spiritual beliefs and traditional knowledge;
- traditional knowledge –
 positively related to age (elders
 self-identify as TK holders more
 so than adults, youth);
- number of days on the land –
 negatively related to age (youth
 and young adults spend more
 time on the land than elders);



Changing harvesting patterns

- Changing locations (going further);
- Seeking alternate foods (e.g. fish, moose, whale);
- Developing new/old harvesting strategies (e.g. community hunt, hunting more cooperatively);



Sharing networks and supports;

- Community addressing the needs of vulnerable members of the community;
- barter and trade between households/communities;





- Management Exercising versus defending Aboriginal rights to harvest;
- roles and responsibilities of government and co-management boards
- critical reflections on co-management;
- Precautionary Principle for Harvesting but not Resource Development

Overemphasis on Harvesting as Problem and Solution

Harvesting

- economically rational behaviour (given limited availability of healthy, affordable other foods);
- traditional activity that serves other kinds of socio-economic, cultural purposes;

Rules known and followed by younger hunters?

 The most well known rules are those defined as "traditional rules" by elders; (i.e. youth were not able to communicate about territorial regulations/ management board guidelines as clearly as those defined by elders;

Rules of Harvesting: Many of the norms / rules governing harvesting behaviour in place at the local level are similar to those of management boards;

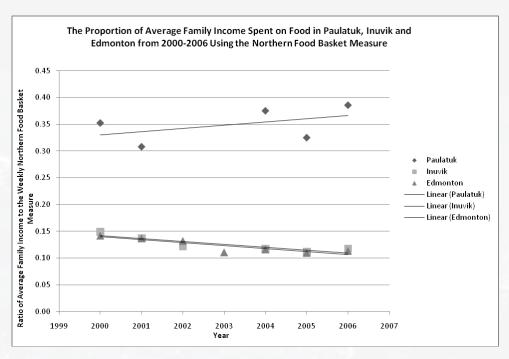
 Conflict between communities, governments are less about the substance of rules as they are about the degree of **autonomy** granted to the harvester in intrepreting the rules depending on such factors as need, ecological conditions etc.;

Wray, K. (2010) Ways we Respect Caribou: Hunting in Tetlit Zheh. (Unpublished MSc). Edmonton: University of Alberta.

No Precautionary Principle for Resource Development

Does it improve Food Security?

- traditional food consumption is lower in boom economy communities (i.e. mining and oil and gas activity);
- consumption of high carbohydrate foods (junk food) increases in 'boom' economy communities presenting problems of increased risk of chronic health diseases (e.g. diabetes);

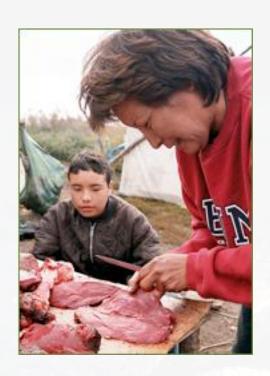


Comparison of the proportion of average family income spent on food in Paulatuk, Inuvik and Edmonton from 2000-2006 using the Northern Food Basket Measure

Todd, Zoe. (2010). Food Security in Paulatuk, NT – Opportunities and Challenges of a Changing Community Economy. MSc thesis, University of Alberta, Edmonton.

Teaching and learning

- 'Scarcity' and 'working harder' created new opportunities for teaching about what it means to respect caribou and the land;
- Challenges facing youth;
 - Not all youth have the same kinds of opportunities;
 - There is an unevenness of learning opportunities attributed to individual choice and aptitude, family, kinship and community influences, and an increasingly globalised society.



Ecological Crisis or Constructed Crisis

- Are the kinds of concerns about caribou numbers warranted given what science and oral histories tell us about historic variabilities?
- Is the lack of availability / access to caribou a small issue when compared to the other kinds of stresses experienced by communities?



Meanings and Implications for Resilience and Well-being

- Individuals/ Communities have a strong base of knowledge, local resources/capabilities and local systems of management that are key to their resilience to stress of caribou population change;
- To what extent do management / policy regimes facilitate or work at cross purposes to building / sustaining these aspects of resilience;

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Walter Alexie Snr., - Fort McPherson
Anne Marie Jackson - Fort Good Hope
Walter Bayha – Deline

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