

CLIMATE CHANGE IN NORTHERN TERRITORIES

Sharing Experiences, Exploring New Methods and Assessing Socio-Economic Impacts

Conference in Akureyri, Iceland

22nd – 23rd August 2013

Subtheme: Adaption to climate change in regions and local communities - examining methods and sharing knowledge

Incorporating climate change in polar tourism product development



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A conceptual dialogue

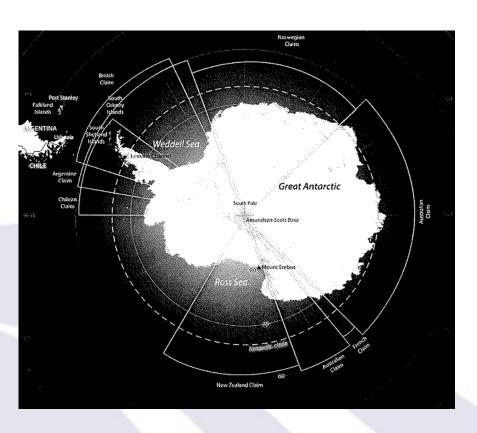


| | POLAR | TOURISM | | |
|-----------------------|---|---|--|--|
| | Experience associated with a specific geographical territory | Experience associated with polar mythology (abstraction) | | |
| | Distance (physical) Physical barriers | Loss of social and cultural markers of the domestic universe | | |
| roach | | Potential environment for personal new challenges (rite of passage) | | |
| ical app | As opposed to sunshine tourism | Search of distinction through acquisition of cultural capital | | |
| Geographical approach | Polar environments as aesthetic sites (reflection) stimulated by the outside | Polar environments as a medium for intra- reflection (self search / spiritual dimension) | | |
| | Allows accounting of tourists on a territorial basis | Allows accounting of tourists based on specific activities | | |
| | Unit of measure: | Unit of measure: | | |
| | the geographical space | the activity | | |

Grenier, 2011: Conceptualization of Polar Tourism In: *Polar Tourism. A tool for Regional Development*, p. 82

The bipolar world





Müller and Grenier, 2011: Polar Tourism. A tool for Regional Development, pp. xxi-xxii



Valuing landscapes



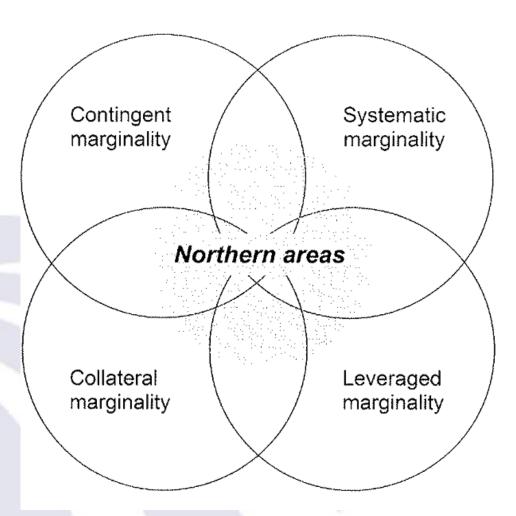
Not only is the North a land of raw and majestic beauty that has inspired generations of authors, artists and adventurers, and not only is it the home to a rich culture shaped through the millennia by the wisdom of Aboriginal people, but it also holds the potential to be a transformative economic asset for the country.



Stephen Harper, Canada's PM 2009, Iqaluit, Nunavut. Statement on Canada's Arctic Foreign Policy, 2010

Understanding the polar region





Müller, 2011: Tourism Development in Europe's Last Wilderness In: *Polar Tourism. A tool for Regional Development*, p. 133

Understanding the polar region



Peripheral problems

Lack of political and economic control over decision-making

Geographical remoteness from demand markets

Weak internal economic linkages creating dependency on imports

Decreasing population figures, ageing societies

Comparative lack of innovation

State intervention

Poor information flows within and from the periphery

High aesthetic natural value due to underdevelopment

Poor infrastructure

Lack of human capital

Arctic Observing Network Social Indicators Project



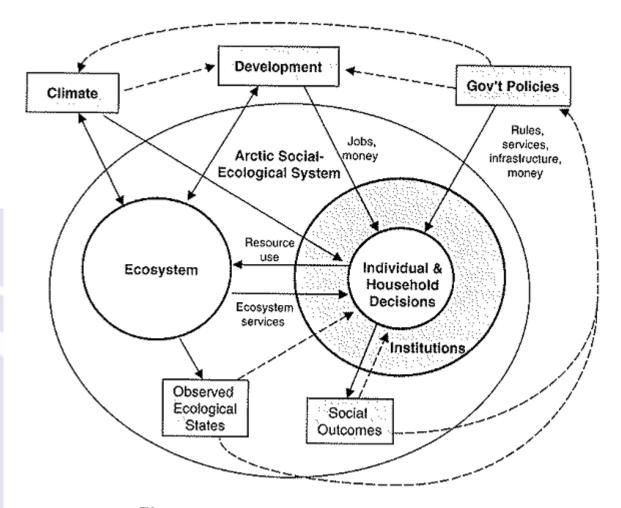
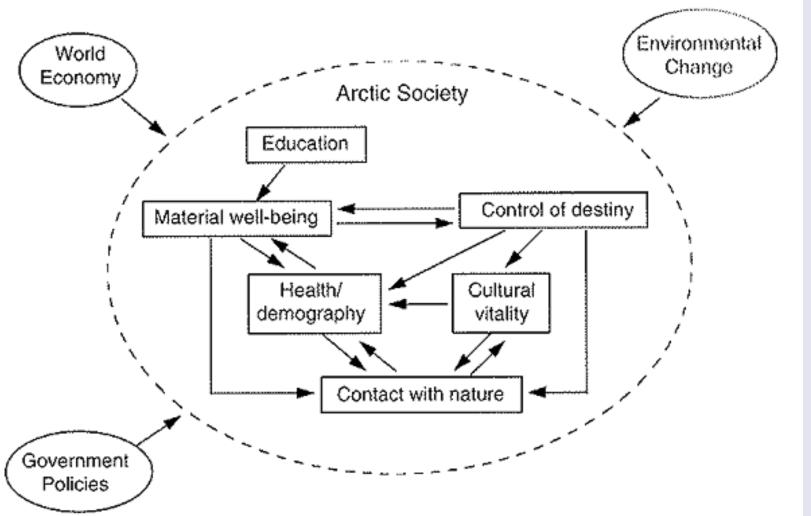


Figure 1. AON-SIP conceptual framework.

The Arctic Social System

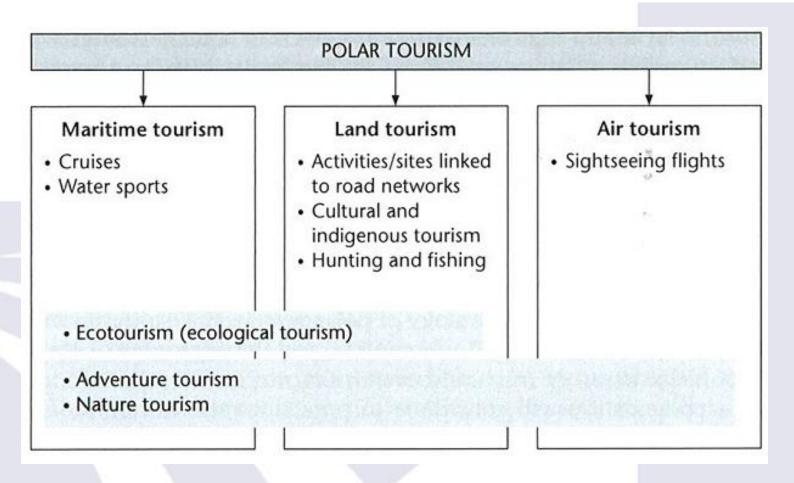




Berman 2011: Arctic Human Dimension Observing System. In *Polar Geography*, 34(1-2): p. 133

Branches of Polar Tourism





Emerging types



| Plog (1977) | Perreault, Dorden and Dorden (1979) | Cohen (1979) | Belgian survey (1986) |
|---------------|-------------------------------------|--|--|
| Psychocentric | homebody | Recreational tourist | Traditionalists |
| .]. | vacationers | Diversionary tourists | Family - sun, sand sea lovers |
| V | budget travellers | Experiential tourist | Discoverers |
| Allocentric | moderates | Experimental tourist | Nature viewers |
| | adventurous | Existential tourist | Contact minded |
| | | | Active sea lovers |
| | Psychocentric | Psychocentric homebody vacationers budget travellers Allocentric moderates | Psychocentric homebody Recreational tourist vacationers Diversionary tourists budget travellers Experiential tourist Allocentric moderates Experimental tourist |

| Dalen (1989) | Gallup and American Express (1989) | Smith (1989) | Wood and House (1991) | Wickens (1994) |
|--------------------------|------------------------------------|--------------|-----------------------|--------------------|
| Traditional materialists | Indulgers | Charter | Bad tourist | Lord Byrons |
| Traditional idealists | Worriers | Mass | J (| Heliolatrus |
| Modern materialists | Economizers | Incipient | V | Shirley Valentines |
| Modern idealists | Dreamers | Unusual | Good tourist | Ravers |
| | Adventurers | Off-beat | | Cultural heritage |
| | | Flite | | |
| | | Explorers | | |

Based on: Swarbrooke and Horner 2007: Consumer Behaviour in Tourism, pp. 83-89

EQ segments



Gentle Explorer

In the world of explorers, you are a Gentle Explorer. You like returning to past destinations and enjoy the security of familiar surroundings. You seek the most comfortable and serene places when you get away and avoid the unknown. Well-organized travel packages and guided tours that take care of all the details appeal to you - travel should be fun, not extra work! And if it's fun, chances are you'll be back.

Personality traits:

conservative
reliable
traditional
solitary
selective
discriminating
fun-loving

Most likely to be seen at:

branded hotels spa cottage organized tour





Polar types



| Viken | Kaltenborn | Grenier | Snyder | Tourist types |
|-------------|-------------------|--------------------|----------------------------|---------------|
| Scientists | | Experts of science | | Scientists |
| Conquerors | Expeditionists | Conquerors | Adventure tourism | Adventurous |
| Naturalists | Wildernists | Birdwatchers | Ecotourism | Naturalists |
| | Traditionalists | Naturalists | | |
| | Contradictionists | Cocooners | Sightseeing (mass tourism) | Leisure |
| | Pragmatists | Lonely travellers | | |
| | | Romance seekers | | |
| | | History lovers | Cultural and heritage | Culture |
| | | Photographers | | Documentary |
| | | | Fishing and hunting | Game |
| | | | | Climate |

Gelter, 2011: Polar Tourist Experiences In: *Polar Tourism. A tool for Regional Development*, p. 236

Post tourist?





Án áfangstaðar/Without Destination

... what was once different is now familiar and the necessity to travel to encounter difference is greatly diminished as the experience of foreign cultures, practices, tastes and fashions become routinely embedded in everyone's daily lives.

Williams, 2009: Tourism Geography. A New Synthesis, p. 6

... "rigorous", "full of facts", and "concrete details" but also "literary", "evocative", "engaging", "imaginative", "accessible" and full of "flesh and blood emotions" and "feelings" ...

Crang og Cook, 2007: Doing Ethnographies, p. 205

Type of arctic change



| Observed Change | Example of effect or possible cause | Observed Change | Example of effect or possible cause | Observed Change | Example of effect or possible cause |
|---|---|---|--|--|--|
| Changes in migration timing and routes Quality of fish declining Abnormalities in fish or animals New species | Access to resources Softer, thinner, spoil faster Afraid to eat when abnormal Salmon | Poor condition of seals | Habitat changes, resource changes, access to hunting grounds Related to reduced sea ice habitat | Deeper snows Fewer seabirds | Increased mortality of moose and caribou by wolves E.g. in Prince William Sound |
| Reduction in thickness and duration of landfast and nearshore sea ice | spawning further north Travel safety, access to hunting grounds | More bear Poor quality of berries, beachgrass Shorter winters | Drive reindeer away, increased predation Reduced harvest of berries Less access on | Less salmon stronger sun Increased fog Changing wind patterns | area E.g. moving to cooler waters Sunburns, rashes Travel safety Poor igloo quality |
| Unpredictability and greater variability of weather conditions Less snow | Travel safety Access to hunting grounds, | More extreme weather events Freezing rain and icing Increased storm surges, flooding | snow and ice E.g. tornado near Aklavik, thunderstorms Health of wildlife Safety, erosion | Spruce beetle infestations Fewer moose Red algae blooms | Die off of trees May be related to change in habitat May be related to warmer water |
| More bushes | wear and tear on snowmobiles and sleds More beaver | Increased presence of polar bear | Safety Kruse 2011: Develop | • | ence observation syst graphy, 34(1-2): pp. 13 |

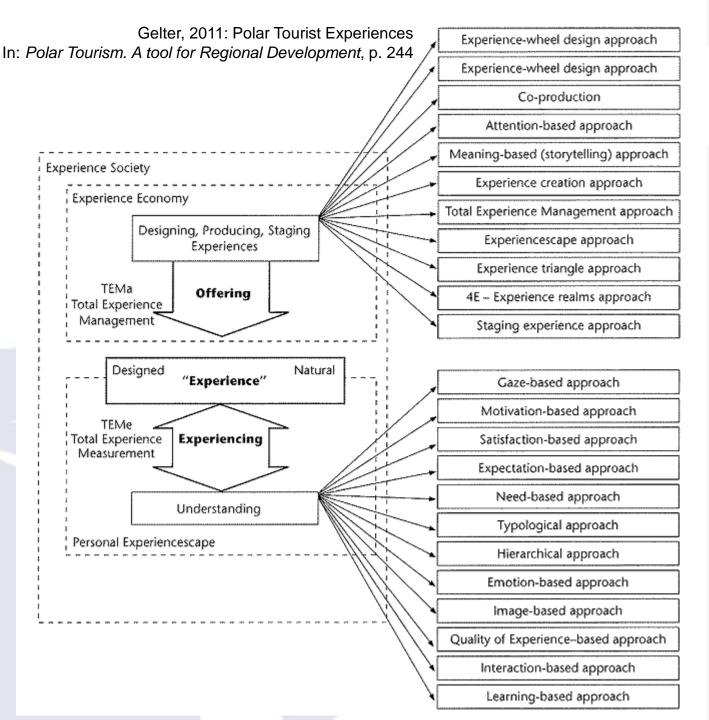
Incorporating climate change



- New services
- New products
- Awareness raising



Gelter, 2011: Polar Tourist Experiences In: *Polar Tourism. A tool for Regional Development*, p. 245





Various expression (activities) of polar tourism by season Type of activity Prerequisite (clientele) Main resources on which activity is based Required infrastructrure (tour operator) Main destinations* Activity Season Ice driving Adventure Driver's licence Vehicle, circuit F,N,S Nature, snow, ice Adventure Icebreaker F.J Polar cruise None Sea. ice Golf course Snow golf Sport None Nature, snow F,N,S Skill Heli-skiing Extreme sport Nature Helicopter, mountain BC,N,S Ice hotel and bar General/recreational None Close to services F,Qc,S Ice, snow Ice castle General/recreational Driver's licence Close to services F,Qc,S Ice, snow Snowmobile Sport None Nature, snow Paths, services Everywhere Recreational Darkness Christmas tourism Culture Miscellaneous Northern lights observation General/recreational Atmosphere (clear sky, sun activity) F,NWT None Close to services Sport/adventure Speed riding None Snow, mountain Accompaniment, equipment Fr, It, Sw Snowboard Sport None Nature Mountain Everywhere Skill, certification Driving under ice pack Sport/adventure Nature Support equipment FR,N,Qc,R Winter Sport/adventure Snowshoeing None Nature, snow None Everywhere Sport/adventure Snowmobile safari Driver's licence Snow, nature Vehicle, paths, support equipment Everywhere Culture/recreational None Woods, water, culture Sauna F,N,S Sport Skill Nature, snow Support equipment, circuit Everywhere

Fr,Qc

F F,N,S

Everywhere

Ant, N, Nu

Ant, Y

F,N,S

A,Ant,G,I,N,Nk,Nu

A,Ant,G,I,N,Nk,Nu

CS,F,N,Nk,Nu,S,Qc

Spring

Summer

Fall

Year round

F,Qc,S

Fr,Qc

Support equipment, path

Support equipment, path

Support equipment, circuit

Support equipment, circuit

Support equipment, guide

Support equipment, path

Support equipment, path

Support equipment, path

Support equipment, lake

Support equipment, circuit

Support equipment, circuit

Support equipment, circuit

Ship, crafts, support services

Equipment and support services

Museums, lodging, boutiques

Support equipment, path

Support services

Support equipment

Ship, port services

Aircraft and service

Ship, port services

Lodging, services

None

None

None

Building

Support equipment, cascade

Snow, animals, nature

Nature, snow, mountain

Snow, nature

Snow, nature

Snow, nature

Snow, animals

Snow, animals

Nature, cliff, ice

Nature, ice, fish

Nature, snow, animals

Nature, urban environment

Nature, urban environment

Nature, urban environment

Nature, urban environment

Nature, snow

Nature, snow

Nature, snow

Snow, nature

Nature, water

Nature

Nature

Water

Nature

Nature

Nature

Culture

* A (Alaska), Ant (Antarctic), BC (British Columbia), CS (Canada southern regions), F (Finland), Fr (France), G (Greenland), I (Iceland), It (Italy), J (Japan), N (Norway), Nk (Nunavik), NWT (Northwest Territories),

Snow

Skill

Skill

Skill

Skill

None

None

None

None

None

Skill

Skill

Skill

Skill

Skill

None

None

None

None

Skill

None

None

None

None

None

None

Experience

Snowmobile safari Sauna (Finnish) Downhill skiing Skijeering Ski skating Cross-country skiing Snowscoot Outdoor survival Dogsled Reindeer sled ride Kicksled Ice climbing

Ice fishing

Skijoring

Bush skiing

Snowmobile

Camping

Sea cruise

Water sports

Nordic hiking

Native tourism

Museum tourism

Sea cruise

Hiking

Sightseeing flight

Hiking

Dwonhill skiing

Cross country skiing

River and lake boating

Relaxation journey in cottage

Sport

Sport

Sport

Sport

Sport

Sport

Sport

Sport

Sport

Qc (Québec), R (Russia), S (Sweden), Sw (Switzerland), Y (Yukon)

Adventure

Adventure

Adventure

Recreational

Sport/adventure

Sport/adventure

Recreational, sport

Recreational

Recreational

Recreational

Recreational

Recreational

Recreational

Recreational

Cultural, recreational

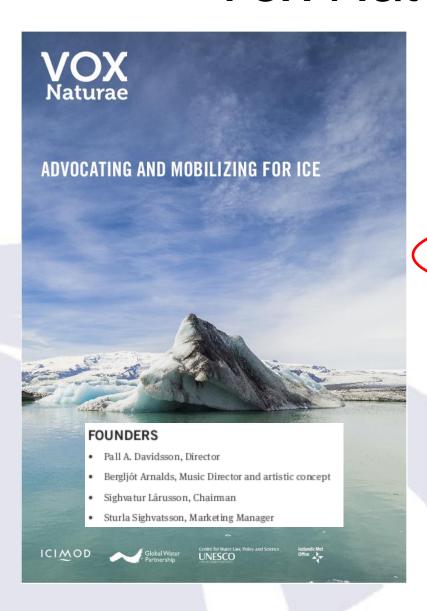
Educational, recreational None

Sport/recreational

Urban transport/sport

Vox Naturae





CELEBRATING GLACIERS

We raise global awareness of ice by joining art, science and nature in eye-opening events celebrating glaciers and communicating their message of change.

