Research Group

McGill University



Government-led adaptation in Nunavut: Successes, challenges and future directions

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Context: Climate Change & Adaptation in the North



(Lenton, 2012; Duatrte et al 2012; Comiso & Hall, 2014; Ford et al. 2015; Ford et al. 2014; Biesbroek et al 2010; Berrang-Ford et al 2010; Labbé et al. in prep)

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Project Approach & Methods



Adaptation baseline: General trends emerging

· Adaptation is on Nunavut's radar

• Found 700 difference adaptation initiatives for federal, territorial, and community scales



Adaptation baseline: General trends emerging

- · Adaptation is on Nunavut's radar
 - Found 700 difference adaptation initiatives for federal, territorial, and community scales
- Low evidence of implementation
 - Action & progress remains in the early stages
 - Most initiatives were in the planned or recommended stage

Adaptation baseline: Change Adaptation General trends emerging

- Adaptation is on Nunavut's radar •
 - Found 700 difference adaptation initiatives for federal, territorial, and community scales
- Action & progress remain in the early stages
 - Most initiatives were in the planned or recommended stage
- Climatic & non-climatic motivations are • equally important
 - Biophysical climate change impacts are rarely the sole motivation

Climate Change Adaptation

Climate

Adaptation Baseline: Example output



Adaptation Readiness: General trends emerging

Importance of mandating

Climate

Change Adaptation

- Without adaptation and climate change as consideration in department mandate, other concerns are priority
- Need to ensure resources and capacity are adequate
- Reduces ad hoc adaptation

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Adaptation Readiness: General trends emerging

Importance of mandating

- Without adaptation and climate change in mandate, other concerns are priority
- Need to ensure resources and capacity are adequate
- Adaptation plans
- Access to reliable information for decision making
 - Data not often shared with decision makers
 - Decision makers unsure how to use data, in unusable format

Adaptation Readiness: General trends emerging

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Importance of adaptation champions

- Accessing funding
- Bringing a climate change or adaptation lens
- Institutional organization

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- Importance of adaptation champions
 - Accessing funding
 - Bringing a climate change or adaptation lens
 - Institutional organization
- Importance of incorporating Traditional Inuit Knowledge
 - Often difficult but will determine uptake of adaptation interventions
 - Different conceptualizations





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 At what jurisdiction are initiatives being implemented?





• What stage are adaptation initiatives in?



Climate Change Adaptation Revert Gree What climatic risks motivate the greatest level of response?









Part 2 – Adaptation Readiness:

 Evaluation of on the ground preparedness to adapt

Climate

Change Adaptation

- Assessment & rating of 7 "readiness factors" that are necessary for adaptation to occur
- Evaluated through 32 in-depth interviews



What does this all mean?

Adaptation Landscape in Nunavut

- In some ways, adaptation is on Nunavut's radar, but remains in early stages
- Moving forward, need to ensure that culturally appropriate actions are engaged in (to avoid maladaptation) and focus on mainstreaming

Adaptation Readiness in Nunavut

- Awareness and understanding about cc/a is increasing at all levels
- Adaptation is happening at all levels, where there are many links across and between scales, as well as faces numerous barriers (i.e. is rarely mainstreamed)
- Nunavut's adaptation readiness varies highly across scales and is contextand department-dependent



Climate Change Adaptation

Preliminary Results: Usable Science Rating = 1 (fed, terr)

Examples of key barriers across scales		
1. Data not always shared with decision makers	2. Accessing reliable information	3. Scientific data not translated to be policy- ready
"There is such disconnect. I go and see presentations and studies [at conferences] and [researchers] never sent us anything more than half page update. And they're presenting and publishing papers and there's lot of relevant, great information there"	"The main challenges are always accessing information and reliable data and having [it] in a format that is actually understandable by decision- makers. At all three levels of government. Sometimes you don't have all the climate or impact data but you need to make a decision."	"l've heard people at the municipal level saying, I can't use the new [climate data] information. I can kind of use the old. I could struggle to use it but now days you need to know a specific script and a specific language to download it from Environment Canada"

Part 1 – Adaptation Landscape: How is Nunavut progressing?

 Are we focusing on more adaptation over time?



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Inuit Qaujimajatuqangit & adaptation

