



Objectives

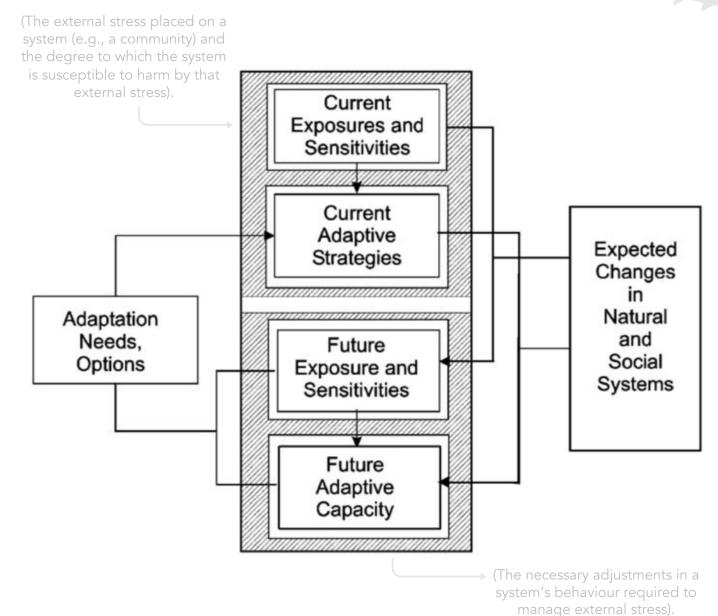
1. Document Inuit knowledge and observations of Arctic char.

2. Identify current exposure-sensitivities affecting Inuit-Arctic char interactions.

3. Characterize the adaptive strategies employed to manage these conditions.



Research Approach



(Ford & Smit, 2004; Smit & Wandel, 2006)

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Methods: Data Collection

Characteristics	Demographics	Sample
Gender	Male	12
	Female	12
Age	Young Adult (18-34)	0
	Adult (35-49)	7
	Elder (50-74)	14
	Oldest Elder (75+)	3
Occupation	Casual Worker	5
	Full Time Harvester	5
	Full Time Worker	4
	Retired	10

- February 16th March 11th, 2021
- 19 semi-structured interviews over the phone
- Participants identified by local Hunters & Trappers Committee
 - Key knowledge holders
 - Avid fishers
 - Equal gender representation





Knowledge & Observations

Arctic char and fishing

"I grew up with it. I grew up with Arctic char all the time." - JH



Knowledge & Observations

Arctic char and fishing

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Uses of Arctic Char





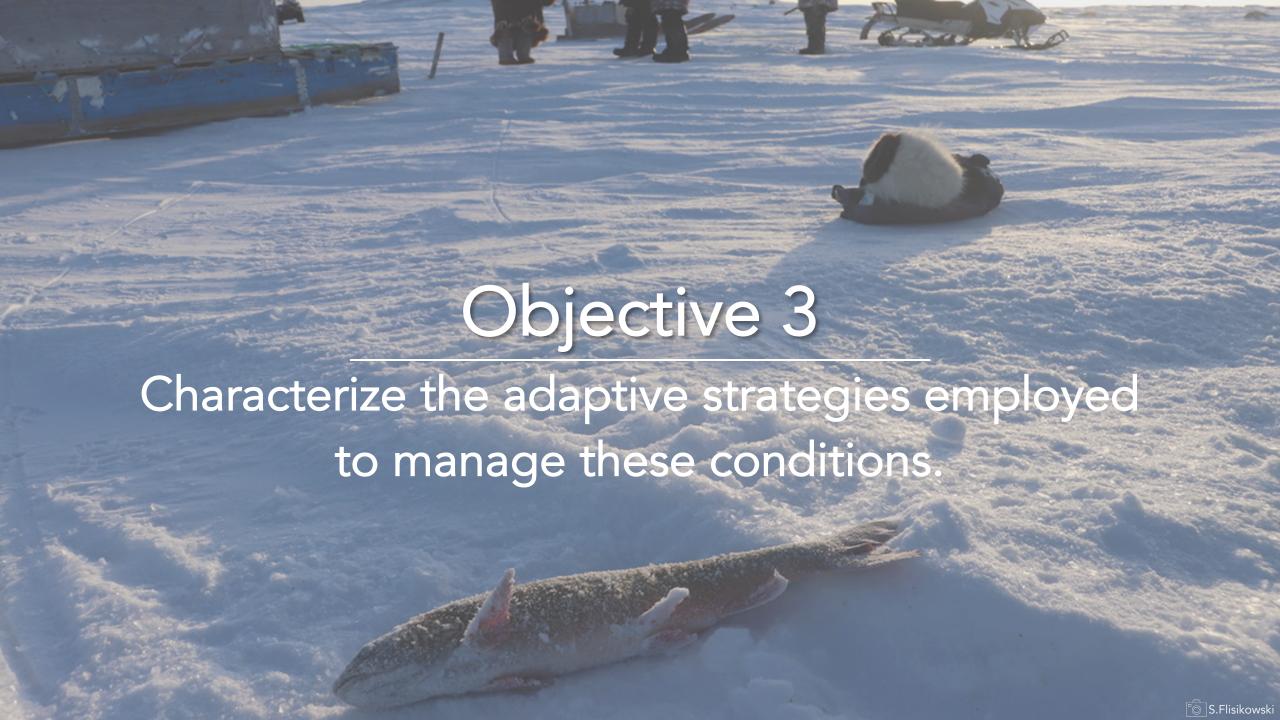


☐ Impact on Residents

Fluctuating water levels Char struggle migrating to/from the ocean People do not catch as much char Rivers drying Shifting environmental conditions ■ Environmental Change Impact on Arctic Char







Responding to Change



Individual Level Responses:

Fishing behaviour

- Travel further away
- More frequent trips, stay out longer
- Harvest other species

Community Level Responses:

Adaptive co-management

- Ulukhaktok Char Working Group



Conclusion

References

Ford, J. D., & Smit, B. (2004). A Framework for Assessing the Vulnerability of Communities in the Canadian Arctic to Risks Associated with Climate Change. *Arctic*, *57*(4), 389–400.

Pettitt-Wade, H., Pearce, T., Kuptana, D., Gallagher, C., Scharffenberg, K., Lea, E., Hussey, N. ., & Loseto, L. . (2020). Inuit observations of a Tunicata bloom unusual for the Amundsen Gulf, western Canadian Arctic. *Arctic Science*, 6(3), 340–351.

Smit, B., & Wandel, J. (2006). Adaptation, adaptive capacity and vulnerability. *Global Environmental Change*, 16(3), 282–292. https://doi.org/10.1016/j.gloenvcha.2006.03.008







ArcticNet

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THANK YOU!

