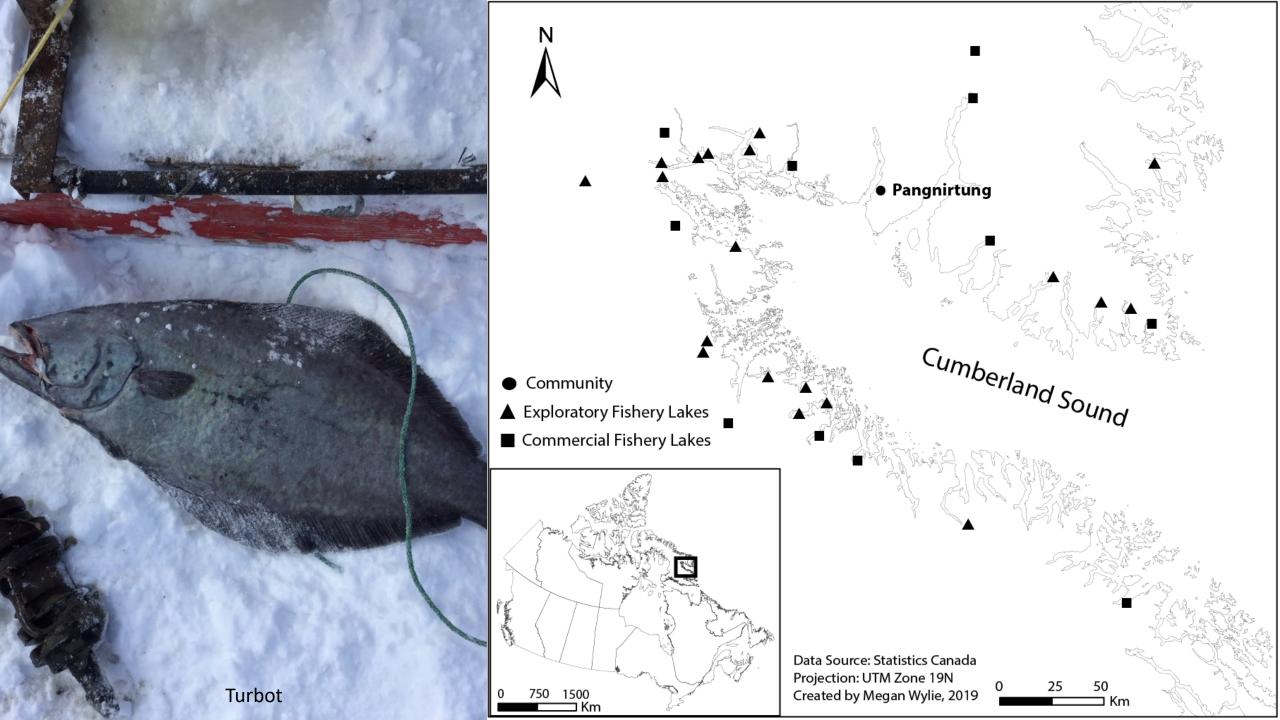
Climate change and community fisheries in the Arctic: A case study from Pangnirtung, Canada

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ACAF webinar on Arctic Climate Adaptation









Community profile

- Population: ~1500 (99% Inuit)
- Language : Inuktitut
- Isolated flying community (no roads)
- Livelihoods: fishing, hunting
- Supplies: boat during the summer

- High rates of food insecurity
- Housing shortages
- Low rates of high school graduation



Hunting and fishing









Pangnirtung harbor





*Products:

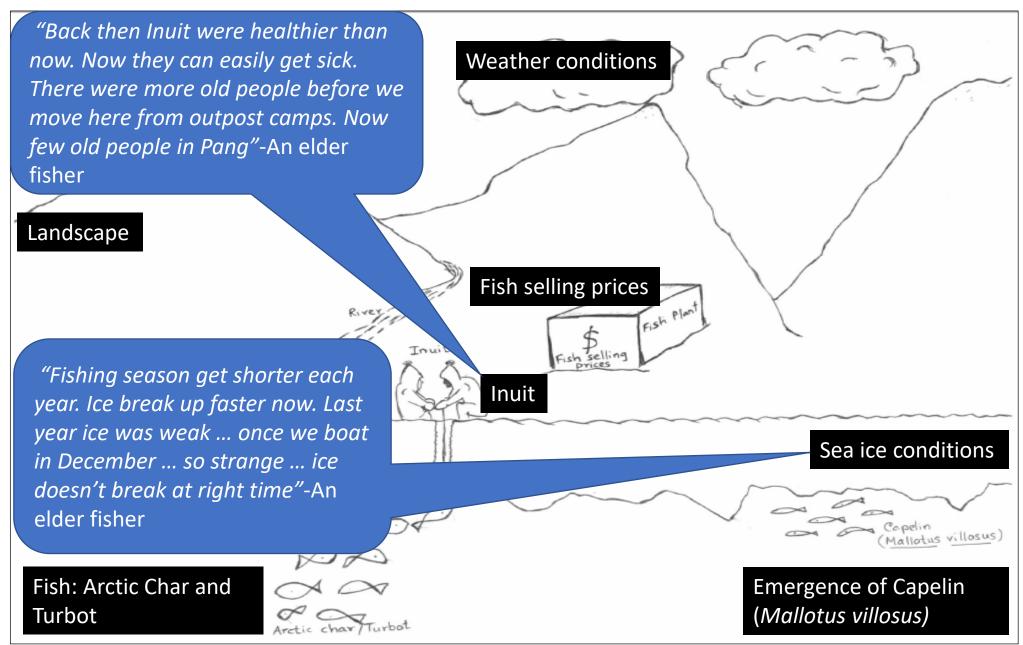
- Arctic char (Salvelinus alpinus)
- Turbot (Reinhardtius hippoglossoides)



Arctic char fishery



How do Inuit fishers experience change?



How do Inuit respond to change?

Community-level adaptive strategies:

- Diversification (co-existing fisheries, country food)
- Technology use (GPS/VHF radio, internetbased social media)
- Co-management approach for fisheries governance (partnerships, sharing power and responsibility)

Place-specific attributes:

- Inuit worldviews
- Inuit-owned institutions
- A culture of sharing and collaborating
- Indigenous and local knowledge systems



Thank you!

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Programme de formation

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Training Program





For more details:

- Galappaththi, E.K., Ford, D.J., Bennett, E.M., and Berkes, F. 2019. Climate change and community fisheries in the Arctic: A case study from Pangnirtung, Canada. *Journal of Environmental Management*, 250 (109534): 11.
- Galappaththi, E.K., Ford, D.J., Bennett, E.M., and Berkes, F. 2021. Adapting to climate change in small-scale fisheries: Insights from Indigenous communities in the global north and south. *Environmental Science and Policy*, 116: 160-170.
- Galappaththi, E.K., Ford, D.J., Bennett, E.M. 2019. A framework for assessing community adaptation to climate change in a fisheries context *Environmental Science and Policy*, 92: 17-26.