

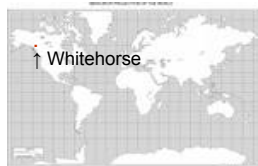
# Climate Change in Northern Canada



By Darcie Matthiessen

Arctic Athabaskan Council  
May 2007

## Climate Change in Northern Canada



<http://alabamamaps.us.edu/contemporarymaps/world/world02.jpg>



<http://www.tifq.ulavai.ca/AXL/amord/images/Yukon-mapS.GIF>

### Arctic Athabaskan Council

- The **Arctic Athabaskan Council** (AAC) is an international treaty organization established to represent the interests of United States and Canadian Athabaskan member First Nation governments in Arctic Council fora, and to foster a greater understanding of the common heritage of all Athabaskan peoples of Arctic North America.

- AAC represents approximately 32,000 Athabaskan peoples.

- The permanent head office for the AAC is in Whitehorse, Yukon.



## Climate Change Impacts and Potential Impacts

- Unpredictable weather
- Changes in wildlife populations / behaviour
- Permafrost melt
- Glacier melt
- Increasing forest fires
- Increase of population due to immigration
- Vector borne diseases



[http://www.books-about-california.com/Images/Paul\\_Burryan/Mosquito\\_Bee.gif](http://www.books-about-california.com/Images/Paul_Burryan/Mosquito_Bee.gif)



## Current Projects of the AAC



<http://www.worldsaasoutdoors.com/2004pics/1179.jpg>



[http://namestudy.hea.com/wildlife/Dfws\\_caribou.jpg](http://namestudy.hea.com/wildlife/Dfws_caribou.jpg)

### •Food security project

-will climate change have an affect on traditional food use?



[http://www.alaskasealife.org/master/animal\\_fa/ctimgpic\\_whitewing.jpg](http://www.alaskasealife.org/master/animal_fa/ctimgpic_whitewing.jpg)



<http://www.theyukon.ca/db/ctfyh/images/siteinfo/bookColla.gif>

### •Climate Change Risk Assessment and First Nation Final Agreement Analysis

-what are the risks of climate change in northern communities?

-How can we use First Nation Final Agreements as a tool for climate change adaptation?

# Climate Change in Northern Canada



## Current Projects of the AAC *continued*



<http://www.oldsow.ca/pb1.htm>

### •Traditional Knowledge and Intellectual Property Rights

-IPY and traditional/local knowledge in research



[http://www.dfat-maeci.gc.ca/aboriginalplanet/750/site/images/archives/may2002/photos/article\\_four\\_r08\\_c3.jpg](http://www.dfat-maeci.gc.ca/aboriginalplanet/750/site/images/archives/may2002/photos/article_four_r08_c3.jpg)



<http://home.mon.net/~wtu/images/lynx2.jpg>

### •Arctic Biodiversity Assessment (ABA), 2010

-the AAC is currently engaged in the development stages of the ABA.



[http://www.abterevise.com/m2004/water\\_june29Arctic%20 flora.jpg](http://www.abterevise.com/m2004/water_june29Arctic%20 flora.jpg)



[http://www.5nspeople.us/pictures/bear/odd\\_sizes/Gizzly\\_Bear\\_Gone\\_Fishing/00000017.jpg](http://www.5nspeople.us/pictures/bear/odd_sizes/Gizzly_Bear_Gone_Fishing/00000017.jpg)



<http://www.tbnc.org/NYCC03/3192/butterfly.jpg>

# Climate Change in Northern Canada



## Barriers to Adaptation in the North

### FUNDING

- Minimal resources available for the adaptation planning process

### RESEARCH AND IMPLEMENTATION

- Potential for an Aboriginal Climate Change Research Centre of Excellence within a First Nation organization
- How do we implement energy efficient technologies in communities?



<http://www.ase.org/images/lib/blue%20logo.%20small.jpg>



<http://www.myconsultants.gcchina.org/gengxw/W020041018798294693882.jpg>



[http://www.learnonline.com/picts/sil\\_solar\\_panel.jpg](http://www.learnonline.com/picts/sil_solar_panel.jpg)



[http://www.artswales.com/ffkm/imagewindfarm\\_sheep\\_snow2copy.jpg](http://www.artswales.com/ffkm/imagewindfarm_sheep_snow2copy.jpg)



[http://images.businessweek.com/ss/06/10/worldchanging/mage12\\_lightbulb/dock\\_architecture.jpg](http://images.businessweek.com/ss/06/10/worldchanging/mage12_lightbulb/dock_architecture.jpg)



## Barriers to Adaptation in the North *continued*



### EDUCATION

Requires specific training processes

- Risk assessment specialists
- Skills required for long-term planning
- Sustainable infrastructure development

Lack of formal education by community members

- Potential shift in the future to a wage economy

Education and communication on climate change research

- Resources required for educational materials at workshops and training sessions.



•For more information about the AAC, please contact **011-867-393-9214** or visit our website at <http://www.arcticathabascancouncil.com/>

## Thank you



[http://www.channe4.com/science/media/G/green\\_technologies/showcard/globe\\_east\\_NASA.jpg](http://www.channe4.com/science/media/G/green_technologies/showcard/globe_east_NASA.jpg)