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FISHERIES JOINT MANAGEMENT COMMITTEE



## Attention Readers!

Dear Kayla,

Well it's that time again, time for another FJMC Newsletter! There has been a lot going on over the past year and too much since the last newsletter to capture it all in this issue but I promise some interesting stuff all the same. I have come to the conclusion that a quarterly newsletter would be most effective and manageable on my part so I hope to provide you all with some very interesting and important updates every few months. The new FJMC Newsletter schedule I am proposing is as follows:

**1<sup>st</sup> issue: February**

**2<sup>nd</sup> issue: May**

**3<sup>rd</sup> issue: August**

**4<sup>th</sup> issue: November**

I look forward to another year of publishing the FJMC Newsletter and am always open to suggestions from our audience. If you have any comments or suggestions regarding any of the FJMC's communication tools (Newsletter or Blog) please do not hesitate to contact me at [fjmc-rb@jointsec.nt.ca](mailto:fjmc-rb@jointsec.nt.ca) or via telephone at 867-777-2828. The

## Issue Number

# 6

## In This Issue

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## Incase you were Wondering...

### Productivity:

is the total amount of organic material (food, energy, waste, offspring) that living organisms produce. More primary productivity (plants and algae) equals more crustaceans, more crustaceans equals more cod, and more cod equals greater numbers of belugas.

## Quick Links

[FJMC Blog](#)  
[FJMC Website](#)  
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FJMC blog has been pretty quiet over the past year but I am also working to improve the successfulness of this communication tool. It is an open forum where I plan to place short interesting news about what the FJMC is up at least once a month and the best part is that you can comment on the content right there! The blog can be accessed through every Newsletter under the "Quick Links" heading or by visiting <http://fjmcblog.blogspot.com/>.

Sincerely,  
 Kayla Hansen-Craik  
 Community Resource Specialist  
 Fisheries Joint Management Committee

## *FJMC Attends the ELOKA Workshop in Boulder, CO*

### Building a network for Arctic Community Based Monitoring Programs

During the week of November 14 - 18<sup>th</sup>, 2011 FJMC Inuvialuit member Vernon B. Amos with support from FJMC staff Kayla Hansen-Craik travelled to Boulder, Colorado USA to attend the ELOKA (Exchange of Local Observations and Knowledge of the Arctic) Workshop titled "Data management and local knowledge - Building a network to support community based research and monitoring". The workshop brought together researchers, community members, organizations and projects dealing with a range of areas related to community based monitoring and research. It was reassuring to find that many of the participants shared the same principals as we have built on in the early stages of the ISR CBM design and development including the understanding that any Community based monitoring program should be designed by communities and for communities. Meaning that communities need to be involved from the beginning and that program design should focus its priorities on the concerns and questions of the communities it is being developed for. During the course of the week Vernon and Kayla had the opportunity of meeting many interesting people and investigated collaboration opportunities across the Circumpolar Arctic as well as gathered much information on data management tools being used by other CBM initiatives. FJMC participants will be developing a workshop report for the CBM Steering Committee and Working group's consideration. The CBM Steering Committee is planning to meet December 8th, 2011, during the week of the December IGC meeting. We will keep you updated as the initiative unfolds.



Rocky Mountain Range  
 Boulder, Colorado

## Changes in the FJMC

During the last Inuvialuit Game Council meeting in September, 2011 two new Inuvialuit members were appointed to the FJMC and the FJMC said goodbye to two members the following list is the new FJMC membership.

*FJMC Chair: Vic Gillman*

*FJMC Vice Chair: Vernon Amos*

*FJMC Directors:*

*Burton Ayles - Canada Member*

*Micheal Papst - Interum Canada Member*

*Billy Archie - Inuvialuit Member*

The FJMC said goodbye to  
*Max Kotokak Sr. - Inuvialuit member (1998-2011)*

*Hank Angasuk - Interum Inuvialuit Member (2010-2011)*

The FJMC would like to take this opportunity to welcome the newly appointed members and Thank the outgoing members for their significant contributions to the FJMC.

## Joke Corner

What did the fish say when he ran into the cement wall?



## *FJMC Brushes up on Hydro-Kinetics*

By Canada Member Burton Ayles

In mid November the Northwest Territories Power Corporation (NTPC) organized a small workshop in Yellowknife to discuss small scale hydro electric systems that might some day be used in parts of the Canadian North. Workshop participants included community members, resource managers, engineers and scientists from the NWT, the rest of Canada and from the United States. The systems discussed are like electricity producing wind mills but they are powered by river currents not the wind.

Large scale, traditional hydroelectric power developments involve damming entire rivers and creating storage reservoirs. Water is released through the turbines when power is needed by homes and industries not when it is needed by the river downstream. A large scale dam on the Mackenzie River or one of its major tributaries such as the Liard or the Great Bear would significantly affect the entire Mackenzie Valley. Currently maximum flows in the Mackenzie are in spring bringing warm water and nutrients from the south resulting in an earlier break-up and more food for fish and marine mammals in the river and in the Beaufort Sea. A hydro dam would result in higher winter flows and lower flows in the spring. The FJMC, and others, are concerned that such changes would be devastating for the river and ocean ecosystems and the species that depend upon them.

The Yellowknife workshop discussed new technologies that captures energy using the natural flow of the river without building dams. (Called hydrokinetic power generation, similar systems are being considered to take advantage of waves and tides in the ocean). These "micro hydro or run of the river technologies" are in very early stages but in the future they could be used in areas of the NWT to reduce the need for diesel generated electricity. The power producing mechanisms or turbines being considered are still very experimental. Some look like simple boat propellers that would turn with the river currents, others look like massive jet engines, paddle wheels, twirling balls or lawn mowers but they are all designed to convert the power of moving water into electricity which would then feed into a community electrical power grid. And they are all designed to sit passively in the river gathering energy from the normal river flow not from water coming from behind a large dam. Because they do not impede the flow of the river their impact on the aquatic ecosystem is expected to be much less than traditional hydro projects. This is why the FJMC and others are interested in these technologies for the north.

While the technologies look promising their practical use is still some time in the future. In 2010 and 2011 the NTPC tested a hydrokinetic power turbine in the Mackenzie River near Fort Simpson. A more

~ Dam! ~

## Ringed Seals Update

During the October FJMC/HTC Presidents meeting, the FJMC advised HTC presidents that they would be following the Seal story as it developed and new information became available. To date no new information has been made available to the FJMC.

The Committee will continue to follow the story and seek further information from the lead agencies involved. When/if any new information becomes available the FJMC will report it to the HTC's and communities.

Thanks

## *Want More?*

In addition to the Newsletter the FJMC also has a blog which I try and update at least once a month. You can access the blog through the "Quick Links" heading in the newsletter or by clicking the "Visit our blog" button below. I am always looking for community suggestions on how to better our communication tools so please do not hesitate to contact me if you have any suggestions or feedback on our communication tools! I Hope you enjoy!!

[Visit our blog](#)

experimental system has been operated by the University of Manitoba in the Winnipeg River. These systems have produced power, diverted back into community electrical grids. The NWT installation is still very much in the research and development stage but the numerous problems with setting up and operating the systems have provided many valuable lessons. For example the short, summer open-water period limits the technology. Ice is a major issue and unlike ocean based systems which can float on the surface, any system that is to operate in the north will probably have to be deployed closer to the bottom of the river. This will be an engineering challenge. Still not well understood are potential effects on fish. These systems are expected to have less impact on fish than large scale hydro development. Questions being studied include the following: Will fish avoid the turbines? Will they be hurt if struck by a turbine blade? Will migrations be disturbed by large arrays of turbines in a river? How do fish respond differently to different types of turbines?

As far as the future of NTPC's hydrokinetic system, the GNWT will determine the next steps in the research and development phase of its operation. The FJMC will keep track of developments in this field but interested individuals could check out the NTPC site as well at [www.ntpc.com](http://www.ntpc.com).

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Fisheries Joint Management Committee | Box 2120 | Inuvik | NWT | X0E 0T0 | Canada