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Makivik Corporation

Makivik is the ethnic organization mandated to represent and promote the interests of Nunavik. Its membership is composed of the Inuit beneficiaries of the James Bay and Northern Quebec Agreement (JBNQA). Makivik's responsibility is to ensure the proper implementation of the political, social, and cultural benefits of the Agreement, and to manage and invest the monetary compensation so as to enable the Inuit to become an integral part of the northern economy.

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Makivik Magazine

Makivik Magazine is published quarterly by Makivik Corporation. It is distributed free of charge to Inuit beneficiaries of the JBNQA. The opinions expressed herein are not necessarily those of Makivik Corporation or its executive. We welcome letters to the editor and submissions of articles, artwork, or photographs. Please include your full name, address, and telephone number.

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Makivik Executive

Pita Aatami, President Johnny Peters, Resource Development Vice-President Michael Gordon, Economic Development Vice-President Anthony Ittoshat, Treasurer George Berthe, Secretary

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We wish to express our sincere thanks to all Makivik staff, as well as to all others who provided assistance and materials to make the production of this magazine possible.

'PΓ'Pላራ ኦ'በ / Editor ሩ' Γላረ / Bob Mesher

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《 〜 ィレペ トラント く しゃ かん ー から Published by Makivik Corporation P.O. Box 179, Kuujjuaq, Quebec JOM 1CO Canada ト ら トラント / Telephone: 819 964-2925

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*Contest participation in this magazine is limited to Inuit beneficiaries of the JBNQA.

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Louisa Tookalak on Mansel Island surrounded by her parents, Qalingo and Elisapie, and her younger family members. Photo by Susan Aiken.



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ˁbԺርቪ°Ժ አ^ւLቪ ኦ ቦ ሳ° உረ በኑ. Ever closer together. Just over a year has gone by since the *Nunavik Inuit Land Claims Agreement* was implemented, following 14 years of negotiations. We now provide a synopsis of where we are regarding the implementation of this agreement, which gives Inuit ownership of most nearby islands.

One lot of islands near Ivujivik, which attract large colonies of migratory birds every summer, has also attracted a lot of sci-

entific research and one former bird counter, Joe Spears, reminisces about the time he climbed these cliffs nearly three decades ago. The thick-billed murres (akpait) are of particular interest.

We also begin with the introduction of a series of articles to update Inuit on the popular *Nunavik Youth Hockey Development Program* that encourages our youth to do well in school, look after their health, and experience the positive aspects of teamwork. This program is financed under the *Ungaluk* component of the *Sanarrutik Agreement*.

As we near the Christmas season, shoppers are reminded that we should respect the earth during all seasons. Let's keep the planet green for this white Christmas. And in the spirit of peace, non-violence day on November 25th will give us a time to reflect on how we can be more kind and compassionate to one another. Also in this vein of social wellbeing, Makivik's legal department and the regional health board approach concerns regarding Inuit traditional adoption procedures and proposals to satisfy the community expectations and legal requirements. As the Nunavik organizations work ever closer together for a greater Nunavik society, we wish you much joy going forward.

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Nunavik Notes

Youth

Hockey Program Overview

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NILCA One Year Later

Nunavik Creations Update

First Air, Nirlivallaat

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During a conference of Anglican Clergy in Nunavik this past October 21st. Back row: Benjamin Arreak, Andrew Atagotaaluk, Iola Mettok, and Looasie Kooneeloosie. Front row: Aipilie Napartuk,

کف کے?/WHAT IS THIS?

Jacopie Panipak, Annie Napartuk Ittoshat, and Jonas Alooloo.

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You could win \$100 if you guess what this mysterious picture is. Mail your answer to "Mystery Photo Contest" at the address shown below. Good Luck!



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Our next winners will be drawn at Makivik Headquarters in Kuujjuaq on Friday, December 11th, 2009.

۵۰۶ ۱۵۲۰ ماد۱ محد ۱۵۲۰ ۸ ماد۱ م LP° Nb **Mystery Photo Contest Makivik Corporation**

P.O. Box 179 Kuujjuaq, Québec **JOM 1C0**

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Congratulations to Bobby Nowkawalk who won \$100 by correctly guessing these pieces of leather cut out to make mitts. The other four winners of fabulous prizes for their correct answers were Eva Putugu Kenuajuak, Mae Gordon, Mary Elijasialuk and Lizzie Annahatak.





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Overview of the Nunavik Youth Hockey Development Program

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Starting this fall, we will publish a series of article regarding the Nunavik Youth Hockey Development Program (NYHDP). The NYHDP is financed under the Ungaluk component of the *Sanarrutik Agreement*. Now managed by Makivik, it is an initiative that receives the support of many regional organizations in Nunavik.

History

Back in May 2006, KRG and Makivik became associated with former NHL member Joé Juneau in the development of an ice hockey program that would promote the importance of education and crime prevention in Nunavik. In October 2006, a pilot project was initiated in all 14 communities of Nunavik for a period of 19 months.

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In spring 2008, following the success of the pilot project, Makivik, KRG and KSB all agreed that it was important to pursue the development of the NYHDP. Makivik then entered into an agreement with Joé Juneau so he could continue to fulfil his duties as consultant, instructor and coordinator in regards to the NYHDP and its Select Program. The



KSB also engaged fully in the program by, among other things, allowing Danielle Demers and Claude Vallières to build on the previous year's success in their respective roles as academic coordinators and tutors under



the NYHDP. At the time, KRG also decided to devote additional human resources to their recreation department to insure the proper regional coordination of the program.

The NYHDP entered in its fourth season this fall. With Joé Juneau still involved and fully dedicated as a hockey consultant, it was decided



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selection camp in Kuujjuaq.

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that Makivik, under his coordination, would be administrating the NYHDP as a whole, including the Select Program. Sammy Koneak will also continue to be involved in the management of the program. Makivik, KSB and everyone involved in the rendering of the NYHDP really hope to eventually see all of the communities in Nunavik participating fully in the program by showing their full commitment in providing all the necessary support in the delivery of this much needed school- hockey program.

Education and good behaviour

Even if the NYHDP is labelled as an ice hockey program, it has much broader objectives than just helping the kids to become good hockey players. In fact, hockey is more or less a pretext to provide the kids with tools to help them adopt a healthy lifestyle, teach them good values and ensure that they stay in school.

Each participant in the program is asked to follow these rules:

- Sign a participant commitment;
- Follow all the directives of the program;
- Maintain and improve their attendance, effort and behaviour in school;
- Respect the hockey schedule and be at the arena 30 minutes before the start of his/her practice or game;
- Do volunteer work in their community;
- Look after the hockey equipment that is made available to them:
- Respect other participants in the program whether they are players, trainers, parents, or community leaders:
 - Behave as responsible young people in his community;
 - Respect and look after the facilities.

To show the importance of the program in terms of its education component, the KSB council of commissioners adopted a resolution in June of this year that provides for an acknowledgement of the value of the program and supports its implementation. The KSB is therefore showing an even stronger commitment in continuing their partnership in the program, assisting and monitoring the evolution of the participants in school from

Makivik is proud to manage this important program and will continue to provide the necessary support to everyone involved in the rendering of services to the kids in the NYHDP.

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their yearly entry in the NYHDP. The KSB will also continue to assure academic supervision and tutoring services for the students involved in the NYHDP and in the Select Program. All of the participants who will be travelling to Kuujjuaq for select tryouts, for team trainings and for trips down South to play in tournaments, will be supervised academically.

The future

We have now concluded three full seasons of implementing the NYHDP. Overall, the NYHDP has greatly evolved and improved each year. It has made very big strides in the right direction as many positive results can be seen and witnessed throughout Nunavik.

Makivik is proud to manage this important program and will continue to provide the necessary support to everyone involved in the rendering of services to the kids in the NYHDP. Makivik, in close collaboration with Joé Juneau, wants to bring the program to another level and will do so by pursuing a number of initiatives and by constantly improving the key components. The Makivik leaders have been great supporters of the program since the start.

Makivik will keep the population informed at all stages of development and implementation of the program. Topics that we will be further detail in upcoming editions of this series shall include the Select Program, the local hockey trainers, infrastructure and equipment, academic support, Hockey Nunavik and the formal recognition of the program by Hockey Québec, etc.

We encourage everyone to support and get involve in the NYHDP. Help us to provide the children of Nunavik with this positive and popular initiative!

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4° _ C° r° Joe Spears/ ₹ ٢٨ D°

Digges Island 1980 More than For the Birds

By Joe Spears





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 I attended the KRG civil security symposium in Kuujjuaq in August 2008 as a guest speaker. I spoke on Arctic shipping and marine response. It was a chance to renew old friendships and reflect on and recall my first visit in Nunavik as a seabird researcher with the Canadian Wildlife Service from June to September 1980, some 28 years earlier. A lot had changed in the world but the importance of these seabird

colonies to Nunavik had not—nor had the sense of humour of many of my old friends, and a love and stewardship of the land that is now Nunavik. I started to think that there was very little to record this important work for a new generation of Nunavimmiut to learn about this pioneering work that the now elders had done with seabird scientists. What seemed like yesterday was almost 30 years ago. It was good to reflect on the spirit of cooperation and goodwill that marked this murre research which was an art and a science

and made use of traditional skills. This article is an effort to record this work.

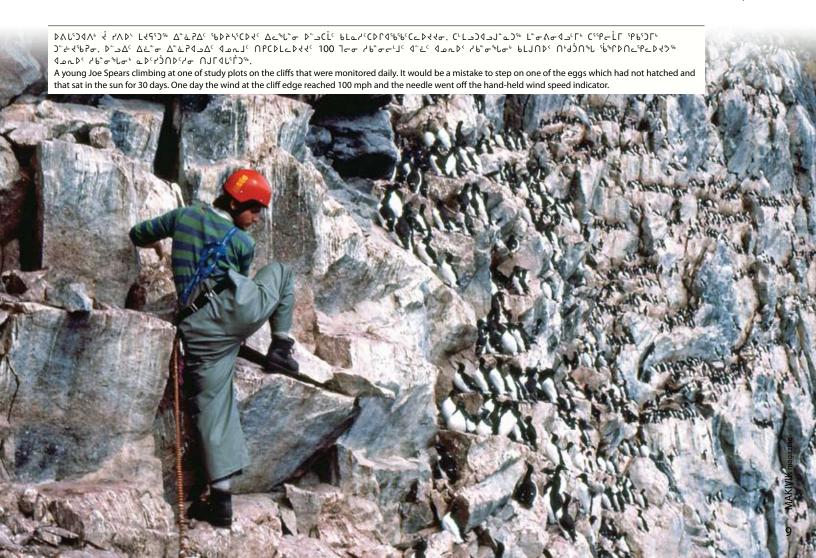
Thick-billed murres (known in Inuktittut as *akpait*) are a form of *alcid* or *auk*, a type of seabird that nest on the rocky ledges in great numbers in the cliffs on East Digges Island and Cape Wolstenholme to the north of Ivujivik. They have been recorded since Henry Hudson's first encountered Inuit in

 D^{-} $\rightarrow C^{+}$ O^{+} O^{-} $O^$ 4^{L} 5° 1° 1° ^₅b^c հ° $\Delta = \Delta \Delta^{\circ} = \sigma^{\circ}$ לרס-בסים לילֹן 1610 שורבן טישביע ולהבבבי כתסקבי ל ۹۲۵-۲۵۵ - ۱۳۵۰ مو۲۵-۱۳۵۶ کا ۱۳۵۸ مورد ۱۳۸۸ مورد اید از ۱۳۸ مورد اید از ۱۳۸۸ مورد اید از ۱۳۸ مورد اید از ۱۳۸ مورد اید از ۱۳۸۸ مورد اید از اید Δ^* è P^* o c Δ Lo c Γ l c Cl i c Δ Lo c Δ Lo c Δ C o c o lo c Δ ۵۴L۲۰۱۶ من ۱۹۲۰ من ۱۹۲۸ من ما ۱۹۲۸ من استام الم ϹϦϭϧϧϒͺ Ϙ͵ͼʹϛͺ ϭϳ϶ͺ Ͽϳ϶ͺϽϽͺ ϷϒʹͰλͺϨϦϒͶ, LϞϦͺͺͱΡϤϹϦ·ͺ $^{\circ}$ ወላተው ነበር እነ ነገር እና ተጠነያነተበ የነር ነገ ነገር እስተመታ ነ የነር እን ነገር እስተመታ ነገር እስ $\mathsf{N}^{\mathsf{N}}\mathsf{D}^{\mathsf{N}}\mathsf{D}^{\mathsf{N}}\mathsf{D}^{\mathsf{L$ **Ϥ·∨ʹ**Ϸ⋂ͽͽΓϭϲͺͺͰͽΓ·ϭͺ

ᡥᠯ᠌᠙ᡴᡐ᠘ᡏ᠐᠈᠘ᠳ᠘᠂᠘ᠳ᠘᠂᠙ᢩᡠ᠘ᠳ᠘᠘᠘᠘᠘᠘᠘᠘᠘᠙ ᢃᡂ᠘ᢎᡆ᠘ ᠈ᡏ᠙ᢐᢁ᠊ᡆ᠆᠐ᠵᡀ᠂᠈ᢆᢣᠸ᠖ᡯ᠘ᡙ᠘᠘᠐ᢃᠫᢁᢋ᠘᠂᠘ᡏ᠐ᡏ᠙᠘᠘ᠰ᠘ 1610 and were a welcome addition to the food supply of the Europeans. The noise and smell of these murre colonies are never forgotten. When the young murre chicks fledge from the cliffs they start a long swim to the waters of the Grand Banks of Newfoundland with their parents. The journey commences with the parents calling from the water at the base of the cliffs at night when it is more difficult for predators such as gyrfalcons, peregrine falcons and ravens to capture them. The chick jumps off and glides to the waters below to join their parents. It is quite a sight and noisy too with all the adult murres calling out for their young. Once the chicks fledge the colonies go silent until the next year.

For thousands of years the eggs that are easily accessible in the area have been harvested by the peoples of Nunavik with little apparent effect on the murre colonies. In 1980, it was thought that these murre lived for four or five and would come back to the same nesting ledge. The fact that they returned to the same ledge every year was based on the use of coloured leg bands and painstaking observations by field researchers observing the murre in study plots.

The seabird colonies of Nunavik at Digges Island and Akpatok Island are some of the largest in the world with over two-million birds and the research done there by the







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 Government of Canada in conjunction with the people of Nunavik will help us better understand what impact climate change is having on Arctic marine ecosystems. We have a benchmark to compare changes. Recent research has shown that the murre are no longer eating polar cod as a food staple but are eating other species of fish and shrimp-like creatures in the waters surrounding the breeding colonies. There are very few parts of the marine Arctic where we have had such a large amount of focused research, which built on the traditional knowledge of the peoples of Nunavik and the nearby village of Ivujivik. This will become increasingly important in the coming years.

The murre research was a unique and remarkable experience and collaboration and we can learn a great deal especially now that the Nunavik offshore lands are within the control of the people of Nunavik. Everyone involved during that first season of research in 1980 learned a great deal about the marine resources, the people, one another and ourselves. Little did we realize that in just a few short years our climate would be ongoing such changes.

I want to first go back to the summer of 1980. This work mainly lives on in memories, slides and detailed scientific reports and journals. I thought it would be good for the young people of Nunavik to learn about these amazing birds and the



ムアトル「Page Leader Phase Phase The Makivik board member in Ivujivik for many years.

work that was done as we try to understand and protect as part of stewardship of the living land of Nunavik.

1980 was the start of a five-year research program headed by Dr. Tony Gaston of the Canadian Wildlife Service. I worked closely with Adamie Mangiuk of nearby Ivujivik and learned many traditional skills from Adamie, a master hunter. Adamie was hired as a guide and Inuit researcher. We worked together conducting a variety of research from cliffs, by land and by canoe sometimes far from the colonies. We worked hard but always had time for a laugh and smile during that summer.

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 The banding of the murre was hard work but also a lot of fun. This was done from rope over the tops of the cliffs and also from the water. Normally a 'highly scientific' capture device was used—a fishing dip net on the end of a long bamboo pole. On one occasion Adamie's, nephew captured a murre using the net from the canoe at the base of the cliff. On that



Another photo taken at Camp Cove in early September 1980 with Adamie Mangiuk in the baseball cap.

bird we found what looked like a piece of toothpaste tube. It turned out that this was in fact a stainless steel bird band that had been weathered and was wafer thin like a piece of toothpaste tube. We carefully removed this piece of stainless steel and it was sent to the United States Fish and Wildlife Service where, using an electron microscope, they confirmed the bird band serial number. It had been banned in 1955 by Doctor Les Tuck, a legendary Newfoundland seabird researcher who, with assistance from the people of Ivujivik, had set a record of banding 3000 murre in a single day. It turned out that this one, which was easily accessible from a ledge, was over 25 years old—so much for the four or five year theory of murre lifespan. It was truly remarkable that this particular murre was captured out of all the millions of birds. Adamie's nephew had really brought good luck.

Because of the sheer cliff faces it is not possible to count the murre so a very expensive *Pentax* large-format camera (with film five inches by seven inches) was used to photograph the cliffs and the murre are manually counted at a later date. This is usually done during the winter months after this special film was developed and the prints were blown up and the murre, seen as mere dots, are counted. Once again Adamie's nephew showed his good eye and he had the unique experience of assisting in the taking of these pictures. Adamie constantly

Digges Island 1980



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reminded him not to drop the very expensive camera and he never did. Once again we had great pictures for our records, which was no easy feat from a rocking canoe in the waters of Hudson Strait.

That summer we also learned that Arctic foxes took a liking to our cliff top mountaineering ropes. On one occasion, Adamie was on the cliff top climbing down to band murre and as we made it back to the top of the edge of the cliff, an Arctic fox had almost gnawed through the rope we had been using to climb up the cliff face. Luckily it had held us. Adamie's words were. "That must have been one hungry fox," I seem to recall. I had other words. We never saw the fox but we kept our eyes peeled after that. It was a long way down to the base of the cliffs and none of us wanted to go swimming with our climbing boots, or Adamie with his hip waders.

It was a summer filled with rich experiences and we obtained important research.

There have been many changes since the intervening years—the largest being the rapid climate changes and changes in sea-ice. The Digges Island, Cape Wolstenholme and Akpatok Island murre seabird colonies are some of the largest in the Canadian North. With rapid climate change there is going to be more shipping activities and the potential for marine pollution grows. The murre are especially vulnerable to marine pollution because they are clustered together in dense colonies for June, July and August and they spend so much of their time on the ocean waters. This earlier



work will take on more importance in the coming years.

This wildlife research was the forerunner of collaborative scientific research. The recently signed Nunavik Inuit Land Claim Agreement will ensure these islands, and the walrus rookeries on Nottingham Island, are protected for future generations. These living resources are important for traditional and new uses such as tourism and a strong sustainable economy for Nunavik. We need to ensure that Nunavik's murre are safe in a rapidly changing planet. We need to all work together in a collaborative way to ensure this happens and these treasures of Nunavik are protected for future generations. Adamie instilled that in me many years ago.

Joe Spears is a Principal of the Horseshoe Bay Marine Group of West Vancouver Canada and has been involved in marine issues and marine response across Canada since before his summer at Digges in 1980. He owns a wood canvas canoe slightly smaller than the one used by Adamie Mangiuk back then.

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One Year Later: Implementation of the **Nunavik Inuit Land Claims Agreement**

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Where we are with implementation of the NILCA

After 14 years of negotiations between Makivik, the Government of Canada and the Government of Nunavut, the Nunavik Inuit accepted the Nunavik Inuit Land Claims Agreement (NILCA) in an overwhelming majority vote of 78%. The parties formally signed the Agreement in Kuujjuag on December 1st, 2006. To bring NILCA into effect, the Government of Canada was required to enact a piece of federal legislation called the Nunavik Inuit Land Claims Agreement Act. This enactment should

> have taken place in the spring of 2007 but due to unfortunate delays in the Senate of Canada throughout 2007 and 2008, this Act was not adopted and in effect until July 10th, 2008.

> It has now been just over one year since this effective date for NILCA. In accordance with the implementation provisions found in Chapter 23 of NILCA

[₹] the parties, shortly after July 10th, 2008, established the tripartite implementation committee composed of three senior officials—one from

Canada, one from the Government of Nunavut, and one from Makivik. The mandate of the implementation committee is basically to oversee and guide the implementation of the NILCA. This Agreement has to be implemented in accordance with the Nunavik Inuit Land Claims Agreement Implementation Plan. This plan is a 356-page document that was also signed by the parties on December 1st, 2006 when the NILCA was signed.

The implementation committee has the mandate to monitor the implementation plan and ensure that those who are responsible implement all the chapters, obligations, provisions and activities in NILCA as detailed in the plan. This committee meets at least once a month in person and often more frequently by telephone conference call.

So far almost every major aspect of NILCA has been implemented or is in the process of being implemented in accordance with the implementation plan. The committee has met with some delays over the past year and are still delayed with respect to the establishment of two of the three management bodies for the Nunavik Marine Region. These two bodies are the Nunavik Marine Region Planning Commission (NMRPC) and the Nunavik Marine Region Impact Review Board (NMRIRB).





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Delivering walrus at the dock in Inukjuak. The harvesting of marine mammals is one activity that has been attracting Nunavik Inuit to the offshore islands since time immemorial.

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Delays in the establishment of these bodies, which are institutions of public government, relate to delays by the Government of Canada in the naming and appointing of its membership on these bodies. It is anticipated that both the NMRPC and NMRIRB should be established before November 2009.

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So far almost every major aspect of NILCA has been implemented or is in the process of being implemented in accordance with the implementation plan.

However, the NMRWB was officially established and had its first meeting in March 2009. Since then the board has held six more formal meetings and has made important decisions related to budgets, internal policies and procedures, beluga management, and the issuance of scientific licenses. Much effort has also gone into staffing and arranging for the office to be set up in Inukjuak and staff began moving into their positions in September.

In addition, over the year, Makivik and the implementation committee

have had much success in the implementation of the NILCA. In particular these successful actions include:

 Land title to 80% of all islands, both surface and subsurface (approximately 5,100 square

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Adamie Padlayat is the new executive director of the Nunavik Marine Wildlife Board, seen here with his partner Stephanie POV and daughter Qirniulaut Tukiliaq.

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New staff: Sarah Ruptash is the administrative assistant while Gregor Gilbert is the director for wildlife management.

kilometres) have been legally transferred by Canada to Makivik.

- The \$53-million NILCA Trust has been established and Canada has made capital transfers to the Trust in accordance with the implementation schedule. The NILCA Trust made its first annual payout to Nunavik Inuit in 2008.
- Other capital transfers contemplated in Chapters 16 and 17 (i.e. approximately \$35-million) of the NILCA are being made to Makivik in accordance with the implementation schedule in the NILCA and the implementation plan.
- The Torngat National Park Cooperative Management Board with the mandate to manage the Torngat National Park in Labrador has been established and operating for over a year. Makivik has two representatives, George Berthe and Willie Etok, on this board. (As we recall, it was the NILCA and the Labrador Inuit Land Claims Agreement that created this park.)
- The Avataq Cultural Institute has been designated to manage all rights and responsibilities related to archaeology and related cultural matters.

Implementation and monitoring has become an ongoing responsibility for the implementation committee. In addition, Makivik has assigned specific tasks and responsibilities for the implementation of NILCA to specific individuals within Makivik. Some of the challenges include funding appropriate housing at reasonable cost for the staff of the three management regimes. Despite any of the challenges and delays leading up to the heights of where the NILCA is today, it is a success story that future generations will certainly have much regard for.



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Consider the Environment During Christmas

ere are some ideas for making the holiday season a joy for all while causing the least amount of harm to our fragile world.

- Offer and ask for gifts that don't involve buying anything. For example spending time together, giving a back rub, babysitting, teaching something that you know how to do, or giving a donation to a charity.
- Reduce the overall number of gifts given. One way is to have everyone in your group or family to draw the name of one person to buy a gift for, or play a game to select which gift will be yours.



• Shop for gifts through the Internet at home to save major energy (and major cash) thanks to exclusive online discounts. Online, there's no waiting in line, and you can shop 24 hours a day. Plus most companies have free or very cheap shipping costs.

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 Use light-emitting diode (LED) holiday

lights, which use up to 90% less electricity, do not become dangerously hot, and last much longer than traditional incandescent Christmas lights.

- Wrap your gifts in reusable gift bags, decorated paper bags, pretty dishtowels or other fancy fabric, old maps, or newspaper comics.
- Remember to bring your cloth shopping bags when you are Christmas shopping.
- Add a personal touch to your Christmas by making your own decorations from craft materials such as construction paper, felt, jigsaw puzzle pieces, old CDs, cotton balls, old Christmas cards, lace, pasta, popcorn strings, the possibilities are unlimited.

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Common Eider

Learning more about the many beautiful animals, fish and plants found in our region means that we can better protect them.

The common eider (Somateria mollissima) is the largest duck in the northern hemisphere. They can live for 20 years and have one of the longest life spans among sea ducks.

When they are alarmed, adult common eiders make a ge series of hoarse korr-korr notes. When courting, drakes give a haunting call, which can travel great distances across the water on calm days. Females are less vocal than males. They produce a series of throaty calls during courtship and feeding and an abrupt cluck-cluck when defending their ducklings from avian predators.

Of all sea ducks, the common eider is the most closely tied to marine habitat. It lives in Arctic and Subarctic coastal marine areas. It rarely leaves the water in the winter, and some remain as far north as there is open water.

Young common eiders often benefit from the care of "aunts" which are non-breeding females. These aunts gather around nests containing hatching eggs or newly hatched young and accompany the ducklings to the water with their mother and help to protect the young from predators.

Eiders feed during the day by diving to the bottom in waters from three to 20 metres deep to take mussels, clams, scallops, sea urchins, starfish, and crabs, which are swallowed whole and crushed in the large gizzard.

Environment-friendly Gifts to Consider



here are many gift ideas that you can give, which are certain to bring joy to those on your list and will also not harm the environment. Here we list a few, but we are sure you have other notions to share as well. Our examples are music or movie downloads, tickets to a sports or entertainment event, planting a tree in somebody's name, homemade jams or

sweets, a solar-powered gadget, a bicycle, a cloth bag, a metal water bottle, a personalized calendar, or a long distance calling card.



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νίος Δομίου το τη δημείου 819-964-2965 ίνος Συμαιου 2322.



Be Proud of Your Land Keep it Clean

Show us how you think green. Send us a story of your environmental actions and a picture to go along with it. If you've got a good idea we'll print it in our next edition and you could win a great eco-prize.

Contact Nancy Dea at KRG, 819-964-2965 ext 2322



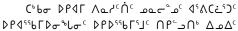








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Adoption in Nunavik

Makivik, with the assistance of the NRBHSS, documents traditional adoption procedures in order to determine how Inuit view traditional adoption, what

legal and social concerns arise as a result of traditional adoption and what proposals could be offered to satisfy both the communities' expectations and the legal requirements. This undertaking is consequent to the Katimajiit Conference held in Kuujjuaq on August 23rd to 24th, 2007.

Workers will visit the communities this fall and early next winter to receive the population's comments, concerns, and proposals and to present an historical perspective on Inuit traditional adoption. In

the meantime, we wish to enhance our future discussions by giving details on the actual adoption procedures as implemented through the administrative agreement that Nunavik has with the Quebec Director of Civil Status.

Specific rule for Nunavik: Inuit customary adoption

Recognition of Inuit customary adoption

The Government of Quebec, and more specifically the Director of Civil Status, has recognized a specific form of adoption that reflects Nunavik Inuit traditional adoption. An Inuk child can, therefore, be adopted by relatives or Inuit members of Nunavik communities after the biological and the adoptive parents complete a form, called the Declaration of Inuit Customary Adoption, which is also signed by the mayor and the landholding corporation president. The Director of Civil Status acknowledges the signed form and, as of its reception, the Inuk child would be recognized as being the legal son or daughter of his or her adoptive Inuit parent(s). It is important to note that such proceedings that come from Inuit traditions and customs are not applicable to non-Inuit, which reflects the position taken by both the KRG and the NRBHSS within past resolutions.

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Inuit customary adoption and non-Inuit families

Non-Inuit families cannot adopt Inuit children under the customary Inuit adoption process. Inuit customary adoption excluded, the principle is that parents cannot choose to whom they would like to give their minor child in adoption. This is the responsibility of the Youth Protection Services. Consequently, a decision taken by Inuit parents to give in adoption a beneficiary child to a non-beneficiary family is not a valid one; it is not made in accordance with the general practices of customary adoption as accepted by the regional organizations and then recognized by the Government of Quebec.

Therefore, if a non-Inuit family contacts you to ratify the adoption of an Inuk child, you need to inform the parents, both natural and "adoptive" that no form on Inuit customary adoption can be filled for that specific case, and the request needs to be addressed to the Youth Protection Services and to the local social services.

Adoption by Inuk and non-Inuk couples

A couple composed of one Inuk and one non-Inuk may adopt a child under the customary Inuit adoption process, but under certain conditions. For biological Inuit parents to adopt their child out

Non-Inuit families cannot adopt Inuit children under the customary Inuit adoption process. Inuit customary adoption excluded, the principle is that parents cannot choose to whom they would like to give their minor child in adoption.

to such a couple, the natural parents and the Inuk adoptive parent must fill out the *Declaration of Inuit Customary* Adoption with the signatures of the mayor and the president of the landholding corporation. Upon receipt and acceptance of this document by the Director of Civil Status, the Inuk partner becomes the legal parent of the adopted child. The non-Inuk partner may then initiate the procedures to obtain a legal adoption of the child. Upon completion of the legal adoption, both the lnuk parent and the non-Inuk parent will be legally recognized as the parents of the child.

Re-adoption by the biological parents

It is possible for the natural parents to re-adopt a child whom they previously adopted

out. We have experienced several situations where the biological parents of a child may wish to adopt the child back into their family. If this situation arises, the procedure is the same as for any traditional adoption, as described above, providing that the name of the child to be re-adopted is not modified following this second adoption. Hence, the name of the child on his/her birth certificate needs to remain the same for the Director of Civil Status to acknowledge said re-adoption.

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>እናታጋኈ: 819-988-2191 ፊት ረላኈ: 819-964-2905 Youth Protection Services in Nunavik

Puvirnituq: 819-988-2191 Kuujjuaq: 819-962-2905



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Kangirsuk Sewing Centre Opened Again

unavik Creations is pleased to announce that the sewing centre in Kangirsuk has opened again, with Mary Eetook as its new man-

ager. Mary will recruit seamstresses to work with her at the centre and she will also provide opportunities for independent seamstresses who are available to work from their homes.

Mary was introduced to her Nunavik Creations colleagues at the company's sewing workshop in Montreal when she went down last August to work with our designer, Vickie Okpik and our workshop manager, Vera Greening. They all worked together to establish a standardized assembly plan for the 150 parkas which were ordered by the KRG for the athletes who will participate in the Arctic Winter Games in Grandes Prairies this coming February.



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The production of a collection of winter parkas is the next project for Nunavik Creations. The standardized patterns to be used for this project come from designs by Vickie. In keeping with the company's dedication to high quality, Vera, who is also responsible for coordinating work at all of the Nunavik Creations sewing centres, will supervise the project to ensure that parkas are made which will be sure to satisfy the demands of our clientele.

By this time many of our customers have likely realized that our website is temporarily down for renovations. You can look forward to a more efficient online shopping experience with the new modifications at nunvikcreations.com once it is back up and running.

All clients are advised to call our Kuujjuaq boutique manager, Victoria Holt, at 819-964-1848 for any information pertaining to our products. The Kuujjuaq store has recently been enlarged and renovated. It is open every day to better serve its clients.

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Nunavik Creations Boutique, Kuujjuaq

Hours of Operation

Monday, Tuesday, and Wednesday from 10:00 am to 6:00 pm Thursday and Friday from 10:00 am to 8:00 pm Saturday and Sundy from 1:00 pm to 5:00 pm

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Prestigious Award to Patricia Menarick

Patricia Menarick of Chisasibi was presented the Governor General's Award during the 2009 convocation ceremonies of Canadore College. Here we see Colin Vickers, Canadore College Board of Governors Chair,



We wish to add our congratulations to that of others in Chisasibi, throughout Nunavik and Canadore College who say, "Patricia, you have made us very proud!"



ባታለነል⁶, ውፈል^LΓ ላነው^c ነየLል⁶CC **LCTL-4C**

Ajapirvik, Nunavik's Fourth Women's Shelter



The Ajapirvik Women's Shelter near completion last fall in Inukjuak. This new five-bedroom facility will be certainly be a welcoming haven for women in need.

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he new Ajapirvik Women's Shelter in Inukjuak, which is scheduled to open next December, will be Nunavik's fourth such facility operating in the region. The KRG, the KMHB, the NV of Inukjuak and the NRBHSS have worked together for the last two years to create a proposal for building the new centre and obtaining the necessary funding. The construction budget for the new shelter is \$2,058,536, while the operations budget is estimated at \$495,213 for the first year. It will also create two full-time jobs (i.e. an executive director and their assistant) and positions for four on-call people to help support the clientele.

> This new women's shelter will have five bedrooms as well as a living room and an office that could also be converted to sleeping quarters if necessary. Located next door to the police station for security purposes, at full capacity it will be able to accommodate up to nine adults and 16 children. Ajapirvik is constructed to serve mainly the Hudson Coast but may also consider Ungava Coast clients as well, depending on the available space.

The Ajapirvik Women's Shelter's board of

directors are Siasi Smiler Igrumia (president), Anna Ohaituk (vice-president), Rynee Kokiapik (treasurer) and Alicie Nalukturuk (secretary), along with Lucy Elijasiapik, Annie Aliqu Niviaxie, and Eli Elijasiapik. Special thanks are extended to the KRG coordinator, Tommy Palliser, whose

MAKIVIK magazine

>AJIUCJ & COFI

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Remember Love

Love is responsibility, caring, honesty, trust, communication, sharing, compromising, recognizing differences, openness, respect...

Love is not jealousy, possessiveness, violence, cruelty, dependency, giving up yourself, intimidation, fear, manipulation, expecting all your needs to be met...

45/40 45-6139 16/4140 4 14/40 4 14/40 ۲٩٢ ٢٦٥ Δ٬٩٢٩% (٩٠٤٠٤%), de ρ.٩٩°)% ۷۰ اے فرد فردنکہ (فرد ۱), کر فرفر در ۲۰۲۱ $\dot{\Delta}$ Δ Δ $\dot{\Gamma}$ $\dot{\Gamma}$ ۵۱۵، عودد إد ۱۹۵۹، ۱۹۵۸، ۱۹۵۸ عود کردان ۱۹۵۹ و ۱۹۵۸ خود ذره C'6) کو مده ۲۰۱۲ که ۲۰۱۲ کا ۱۵ کو ۲۰۱۲ کا ۱۵ کو ۲۰۱۲ کی در کو ۲۰۱۲ کی در کورنی کو در کورنی کور ۵٬۵۰ ۱۶۲ کامه عدد خ)ه٠: ጋ% የተፈላር ነት ተፈርጋት (819) 964-0536, ጋት የተልተ j° ₹45Λ° Γ΄)% (819) 929-3942 4 L Δ Δ σ ۲ Δ ° トーュチ゚プ (♪₺ニ♪パレ: 819-255-8817. Ċ゚┛┛ LPC $\dot{\Gamma}^{5}$? Λ^{5} Λ^{5} L^{2} Λ^{5} Γ^{5} Λ^{5} Λ^{5} UL%%lc 1992%Jccβ'rLLgc, 1996Γ - 4L-1998Γ ፈ‹ረርኦቴ፡ርፖኒ፡ረብኑ.

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tireless efforts have been invaluable. Ajapirvik will complement services

Intervention and prevention programs will be an integral part of the Ajapirvik Women's Shelter to help the victims, their spouse and the children that are involved in a crisis. Women's shelters provide assistance in

> the movement towards violence-free communities. They are opened at all times to help women and their children who need a safe and supportive place, should they find themselves in a physically or psychologically violent environment. The shelters offer a temporary haven where women can find comfort, information and counseling services. They provide orientation to enable women to access services and resources available in the community and provide a forum where they can express their needs and aspirations. Support exists for the women who need an opportunity to work through their situation, to help rebuild healthy relationships within families, and to regain wellness and greater self-esteem.

Thanks to the efforts of our regional health board and their partners, staff houses were built in Salluit and Kuujjuaq this fall to

lodge professionals who will work on developing services for victims of violence and their families in the areas of prevention and aftercare. The objective is to go from a crisis intervention approach to a full spectrum of services available to victims of violence and abuse.

of the three other women's shelters in Nunavik: Tungasuvvik in Kuujjuag (819-964-0536), Tunngavik in Kuujjuaraapik (819-929-3942) and Initsiaq in Salluit (Phone: 819-255-8817). These three existing shelters have been in operation since 1992, 1996 and 1998 respectively.

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Intervention and prevention programs will be an integral part of the Ajapirvik Women's Shelter to help the victims, their spouse and the children that are involved in a crisis.

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Visit airinuit.com to book online and receive your electronic ticket within minutes.

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Electronic booking policy procedure

As Air Inuit's passengers keenly recall, our new booking policy and electronic ticketing procedure was introduced in Nunavik on July 15th. Given that the change is a dramatic one, Air Inuit has created delivered specific posters and pamphlets to illustrate the electronic ticket system to each community in Nunavik.



An electronic ticket will replace the traditional paper ticket. Visit airinuit.com to book online and receive your electronic ticket within minutes. Secondly, upon making a reservation, the passenger will have to complete payment for the reservation within three days after the reservation or the day of departure, whichever comes

first. It is very important to note that if the payment is not received within the three days deadline, the reservation will automatically be cancelled.

While it is our aim to ensure the smoothest possible service to our customers, adjusting to this new system does involve a minimal amount of getting used to. We thank all passengers for your cooperation and patience as we look forward to being able to better align our service with your travel requirements as a consequence

of these changes.

Fall *llaujuq* certificates go electronic

The 2009 fall edition of *llaujuq* was again forwarded to the communities. Beneficiaries still receive the paper certificate, which clearly states the new procedure to travel under the *llaujuq* program. There will be no need to present the paper certificate because the program is now electronic. Have your beneficiary number

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Construction in preparation of the new jet service in Puvirnituq.

readily available and then call Air Inuit's Reservations Department at 1-800-361-2965 to reserve tickets. Be sure to mention that you are travelling under *llaujuq*.

To use your *llaujuq* certificate for cargo, contact your cargo agent to make your shipping arrangements. The cargo agent

will verify the validity of your certificate with passenger services and apply the discounted fare if applicable. The two ways to verify the status of your certificate are by visiting www.airinuit.com/en/llaujuq.aspx and provide your beneficiary number online or by contacting our Reservations Department.

The paper *llaujuq* certificate no longer has value since the program is now electronic.

Hudson Coast jet service

Work proceeds at the Puvirnituq airport on schedule, although a minor delay was incurred mid-summer with respect to the apron and the location of the regional warehouse. While decisions regarding food mail logistics and

Canadian Air Transport Security Authority have not been confirmed the runway and apron work is going ahead on schedule for an early December first flight.



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የዶቦሪርት ር/8 [©]ርዕላ የትንድ የፊላባ ሀር

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ቴኤኒናርቭቴ ርአ8-300 C-GUAL- CUCL Δ፡-ፌተላው ተህፐተደላይነር- ኦታቴኒ Lሊናጋቴ ላተናትጋናርኦታቴኒ ተው ኦታቴናርኦ በናተላጋΔ ፌ ር ላ ህናትው ላጋናርኦቴናር-ተረነጋ ውል ነላ ሊ 15 ኦርጋኒ ተር ለበላናል ቴጋው.

۵۰٫۲۹۶ مر۸۱۸ مرد۶) و ۲۰۱۹ مرد۶) و ۲۰۱۹ مرد۶) د-ا د'اه' ⊳۵ 45-σ- $\Delta \Phi_c C J_e \Phi D C D P_e$ Ç,94 1 2 ᠂᠙᠙ᢗᡶᡝᠳ᠐᠙᠂ᢛᢗᡓᠫᡀ᠘᠘᠘᠆᠉᠘ᠸ᠘᠘᠘ ᢐ᠋᠙᠙ᢗᡶᡝ᠍ᠳ᠒᠙ᢣᠴ᠒ᢣ, ᠕ᢀ᠘ᢣᠳ ᢗᡃ8-ᢃ᠐᠐ᡄᢪᠳ $L^{5}\dot{P}_{\sigma}^{b}\dot{C}^{b}=300\dot{\sigma}^{b}_{\sigma}^{b}$ PY6CPNDA $\sigma^{b}_{\sigma}^{b}=500\dot{\sigma}^{b}$. $C\Gamma_{P} = \nabla \Phi_{C} = \nabla \Phi_{$ Ubdabl Life 13'40 748c ab 107 an chair ۵۰۲۰ کی کر بههاردزنهاری کرنی ۱۲۰ ته ۱۲۵ کی کری دورای ا Ċ\8-100ċ゚゚゚゚ ᠈᠙ᡒᡗᡕᢗᢋ᠌ᠻᡒᠾᢛ᠋᠊ᠳ᠒ᡕᢣ᠋᠒ᢗ᠀ᢣ᠌ᢇ᠐᠈

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HS748 fleet retirement program

HS748 combi C-FGET was flown south to be broken down for parts on July 1st. The aircraft is the first of Air Inuit's four HS748 aircraft to be decommissioned. C-GEGJ and C-GCUK are scheduled for sale or retirement by the end of January 2010. C-FDOX will be retained in service until approximately the end of next June.

C-FGET was ferried from Germany to Dorval on September 7-8, 1989 and the flight was accomplished by Director of Flight Operations Pierre Laplante, First Officer Alain Davis, Flight Engineer Marcel Gallant and then Chief Executive Officer Bob Davis who completed the aircraft purchase on behalf of Air Inuit. Since then the aircraft flew 29,201 air hours and accomplished 33,066 land-

ings for our company.

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Air Inuit is pleased to advise

that our annual sale of full size

Christmas trees will be offered

for Nunavik again this year.

Dash-8 fleet renewal program

Air Inuit Dash 8-300 C-GAID combi entered service in early summer. Due to the lack of charter activity in the south, Dash 8-100 C-GAIV was leased to Provincial Airways when the 300 came on line.

Dash 8-300 C-GUAI is presently undergoing heavy maintenance and conversion to pure freighter status and is scheduled to enter service November 15th.

The Air Inuit board of directors has approved the purchase and conversion of three more Dash 8-300 aircraft over the next year and a half. One of these aircraft will be converted to a pure freighter while the other two will be converted to the 45-passenger combi model. This will bring the Air Inuit fleet of Dash-8 aircraft to six Dash 8-100 combi, three

Dash 8-300 combi, and two Dash 8-300 freighter airplanes. It is what also allows the company to retire the HS 748 fleet and will enable us to have Dash 8-100 aircraft based in Salluit, Kuujjuaq and Radisson.

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Upcoming specials

Firstly our "PreFreeze Seat Sale" runs through the month of August. Besides this, Air Inuit has a "Shopping Special" from November 9th to December 6th, a "Christmas Special" in Nunavik from December 7th to January 10th, and a "Deepfreeze Seat Sale" from January 11th to February 15th. Please contact your local agent for further details including pricing and restrictions. Air Inuit will provide a similar schedule for the first eight months of 2010 early in the New Year.

We also invite everyone to consult our website, listen to FM radio, or ask your local agent about the service enhancements we planned for the Christmas period, which will accommodate the traditional increase in travelling over the holiday season.

Air Inuit is pleased to advise that our annual sale of full size Christmas trees will be offered for Nunavik again this year. These trees will be delivered to the Nunavik communities before December 20th.

A Wish Fulfilled

Stewart Mesher, who had a 20-year career with Air Inuit including as captain of our largest aircraft to the date of his infirmity, had a big wish ful-



filled this past September 6th when he got to meet Gordon Lightfoot in person. Knowing that his cancer was incurable, Stewart decided this was something the he would like to do while he still had the chance and was very touched when the popular Canadian balladeer took the time to have a conversation and even sere-

naded him personally at a fundraiser in Hamilton, Ontario, just 13 days before Stewart passed away. During an interview with CBC's William Tagoona about the event, Stewart said, "I couldn't believe it — he came up to me and sang. I had a lot of fun!"

VITAŸ "PLL VUCD հ

۲۲۱ کار ۱۹۵۱ ۱۹۵۱ کو ۱۹۵۸ ۱۹۵۸ ۱۹۵۸ ۱۹۵۸ ۱۹۵۸ کو ۱۹۵۸ ۱۹۵۸ کو ۱۹۵۸ کو



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Making a Difference in the North

Lvery day, First Air's team of over 1000 employees go beyond the call of duty to ensure excellence in customer service. We have a vested interest in the well being of the communities we

serve with hundreds of our staff and thousands of our customers who call the North home.

In addition to the more than \$3-million that First Air, as a company, donates in cash and in kind annually to the North, there are many initiatives that are led, organized and executed by our employees who take it upon themselves to organize events and activities directly benefiting the communities we serve.

Here are just a few examples of the ways in which the First Air family makes a difference in the communities we serve. Firstly, our Clyde River and Pangnirtung employees organized events that brought each of the communities together for an afternoon of prizes, games and fun. Secondly, our head office staff coordinated a

book sale from which all proceeds raised were donated to the Tumiralaat Inuit Child Care Centre. Thirdly, at the recent Iqaluit air show, First Air raised money by distributing First Air clothing in exchange for a donation. The proceeds were divided between two charities, the *Fallen Heroes Memorial Fund* and the Iqaluit soup kitchen.

To continue the list, an employee barbeque lunch in honour of National Aboriginal Day was held and all the money raised was donated to the Nunavut Kamatsiagtut Help Line.



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Furthermore, at the most recent Yellowknife tradeshow, our First Air team was front-and-centre connecting with the customers (who are our family, friends, and neighbours) raising money for the Rotary Club of Yellowknife projects. Along with this, all proceeds from First Air's annual employee golf tournament are donated directly to a charity in need and this year's selected charity was the Snowsuit Fund of Ottawa.

Also, five shopping carts full of non-perishable food items and a cash donation were raised for the Ottawa food bank. The money and food donations were collected at the employee children's Christmas party and year-end Luncheon. Last but not least, each year our employees donate new toys to "Toy Mountain" helping families in need. This year's collection totalled approximately 200 brand new unused toys, putting a bright smile on the face of underprivileged children. The effort that our team across the entire First Air route network display each day is what make us "the airline of the North".

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Acting for an Emergency Simulation

A full scale flight crash simulation was conducted at the Kuujjuaq runway on September 16th that involved Air Inuit, Kativik Transport, local fire fighters, Northern Rangers, Kativik Regional Police Force, the hospital and ambulances, and 11 secondary five students and two of their teachers from Jaanimarik School.



Wearing makeup and various fake wounds, the students and their teachers played roles as victims of the simulated crash. In doing so the students earned a sum of money to go towards their graduation trip at the end of the school year. The exercise was also a chance for the students to learn about the importance of emergency planning and how such an event could esca-

late and become resolved in real life.

It is mandatory that the emergency workers conduct a tabletop (model scale) emergency simulation each year and that a full scale simulation be held every five years. Members of the emergency team are debriefed at the end of the exercise to discuss what went well and where corrections and improvements need to be made.





ذ۱۷۲ ما۷ک د۱۹۵۲ خا ᡝᡖᠴ᠘ᠳᢛᠮᡖᠮ᠘ᢐᢆᡶᢗ

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۱۵۱۲۵ د ۱۳۵۰ ۱۹۲۵ د ۱۹۲۵ د ۱۹۲۵ ∇ LO3040 $^{\circ}$ C $^{\circ}$ $^{\circ}$ $C'b\dot{\epsilon}'D^c \Lambda C'bD\Delta^a a \Lambda A'b'L \Lambda L^a \Lambda^b a \Delta C'b \Delta^b$ ۰-۵۵ئخ۵۰ دئاڼ **د** ٔ ۱۰ د ۱۰ کا ΔΥΓΓΑΡΑς CΓΑΙΑ ΦΦΟς ΦΕΑΘΓΑςΟς ۰٬۹۲۶ د ۲۰۹۵زنا مادی فر $\Delta \sigma_{\rho} \cap \Delta_{c} \cup \Delta_$ √5,2C₀Lっ βΓイ。Lっ <1,4,2C,Lっ Lっしょっしょ ᠳ᠙᠘ᡥᡳ᠘ 44° ۵۰۲۰ ۱۵۱۹ ۱۵۱۸ ۱۵۱۸ ۱۵۱۸ د ۱۹۵۲ د ۱۹۵۲ د ۱۹۵۲ د ۵۵۰ مرک ۱۵ مرک می ۱۵ مرکز ۱۵ میلاد ۱۵ میلاد ۱۵ میلاد ۱۹ مرکز ۱۵ میلاد ۱۹ میلاد از ۱۹ میلاد ۱۹ میلاد ۱۹ 0٬۹۶۰ کار ᠑ᡖᢆ᠘᠙ᢋᢆ᠘᠘ᢗ᠙ᢋᢣᡆᢗ من ۱۶۸ ۱۹۰۱ کو ۱۹۲۰ کو ۱۹۸ کو ۱۹۸ کو ۱۹ ۲۵٬۲۵۰ کیونرزاله ۱۳۵ کی می ۱۲۵۰ کی

ΔΡΡΓ/ΡΥ₂ος ر⊂20ء و1 $C_{\Gamma}\Gamma \Gamma \Gamma V = C_{\Gamma}\Gamma V = C_{\Gamma}\Gamma$ $P_{\rho}L_{\ell} \wedge Q = 4QL_{\rho}$ وهرر کورو کی (ρσςς کی γγγγ) جورو ا حد4،9ء عودرم، ع ۱۵،۹۶۹ در ۱۹۹۹ CLLTLA%U° +), ۵۹۰۹ مربر ۱۶۹۹ ۱۶۰۹ (مح۷٫۱)، ۲،۹۹۰ (مح۲۱) غامره ۲۰۲۶ مېږ، ۱۲۵۰مو (۲۰۶۵ م $\Gamma^{\S} \Delta \Delta \Gamma^{\S} \Delta \dot{\Gamma}^{C} \Delta \sigma^{\flat}$

How the Rivers of Northern Quebec and Labrador Work

ast summer, as part of Environment Canada's IPY project, the Arctic Freshwater Biodiversity Research and Assessment Network ("ARCTIC-BIONET"), graduate students Allison Ritcey and Andrea Chute from the Canadian Rivers Institute at the University of New Brunswick began a

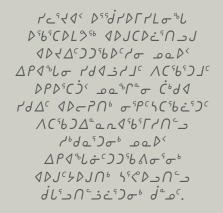
> two-year study on the ecological functions in several rivers in northern Labrador and Quebec. Their goal was to obtain a better understanding of how arctic charr rivers work and how climate change might impact the ecology of these rivers.

Climate change is predicted to melt permafrost in Arctic regions and the nutrients and possible contaminants contained in the soil will be flushed into the river systems. It is thought that an increase in nutrients, contaminants and soil material in rivers could change the number and types of plant and animal species and alter food chains. The ecology of these ecosystems is still relatively unknown and detailed studies and long-term monitoring of these rivers is required to help predict potential climate change impacts.

In the summer field seasons of 2008 and 2009. based out of Kangiqsualujjuaq and Kangidluasuk (the Parks Canada and Nunatsiavut Government's base camp), they sampled the Koroc River (Nunavik), McCornick River and Nakvak Brook (in the Torngat Mountains National Park) and the Torr Bay Brook,

> near Kangidluasuk. At each site stream insects, algae, and water samples were collected. These samples will be used to determine the health of the streams and the feeding connections between river plants and animals. Arctic charr and other fish species were also sampled from sites in the Koroc River and Torr Bay Brook. They counted numbers of fish, measured their sizes and collected

data to determine what



Climate change is predicted to melt permafrost in Arctic regions and the nutrients and possible contaminants contained in the soil will be flushed into the river systems.



 4^{L} 3^{L} 3^{L C'6120 j'6 j' (1Λ17°C', Δ116°C) 1911/145°C 4^{L} $\Delta L^{b}U^{c}$ $^{b}D^{2}S^{c}S^{c}$ DJ $^{c}D^{2}S^{c}$. $\dot{C}^{b}d^{d}$ 6P546.7D5U2 3C75409, U7C75D5409, D6420520, C,910 ان العادرات ۵۱۱۵ ۲۰۴۲ مر ۱۹۵۱ کا ۱۹۲۰ میل فاد «۴۲۶ρ، ۵٬۱۵۲ من ۱۳۵۰ من ۱۳۵۰ من ۱۳۵۸ من مالک د ۲۲، ۱۹۵۹ کارور کارورکی کارور ۱۹۵۹ کی ایک 6° 1° 1° 6 0.000 0.000 0.000 0.000 0.000 0.000 0.000۲مه مرز ما المناد. فاطعمه از ۱۹۵۶ مود ۸۶۵۲۸ خو ۵۵٬۲۵۲ مر۵٬۲۵۰ مرم، باحه، برحه، ۱۲۶۰ می 47° የ መደር ሚያለው የ 2008 መደር መደር መደር የ የተለቀር CUCU JPY&4'CD&16LL~6'J'.

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temperatures might affect fish diet and survival in the future. The samples collected in 2008 and 2009 are currently being analyzed.

The graduate students have thoroughly enjoyed conducting their research in Nunavik and Nunatsiavut and thanks the many people who have made this research program possible.

שליטי להיל אסטילילונC

┖╘┪┩╶┎╗╅┪═┞┖╶┪┢╅╱╗ᢗ╤╸┪┇┇╏╬╏╟╏┪┪┪╌┪┪ ۷۳۰، ۱۲۲۰ - ۱۲ز. ۱۶ ۱۲۲۰ خر ۱۳۲۸ خر ۲۵ ۱۳۶۸ کر ۱۲زی $J\Delta J\Delta \Omega C^{c}$ $C^{c}\Delta C^{c}\Delta C^{c}$ ۲۶٬۵۸۱ ح مرد۱۳۶۱ کالمورزی، حرف کردیمردری کالمورزی Ç, σ V.45%, PΓσΥ.UL?δΥ, β14, Lσ.44, D.,9,4,4LΦ,ρΓσ. ک⁽۲CD - ¹b - ¹CD - ¹

~~~0,5~~c,1)<sub>0</sub>c σ~c,1)<sub>0</sub>c σ~c,1)<sub>0</sub>c γαγος, مرزی۹۹٫۲۶ کرد ۱۲۸۵ مرزی حد۱۶۸۸ عد ۱۵۶۸ ᠴᡄᢐᢗᢗ᠂ᠮ᠙ᢐᢐᡫᠳᡏᠳ. ᠐᠋ᠯᡃᡖᠴᡏᠮᡟᡣᢥ, ᢗᢆᡶᠳ᠂ᡓᢆᡬᡃᠫᡝᡖᢐᡥᡗᢆᠫ<sup>ᡕ</sup>  $P^{c} = A + B^{c} + A^{c} +$ ۹۲ (۱۲ م مو ۱۲۲ م) ادر موه ک الام که مهر مورد ا  $\Lambda$  $\dot{\flat}$  $^{\circ}$  $^$ ۵۲۰٬۵۵۸ باکا۸۵۸ کا ۱۵۰۸ میری ۱۳۵۰ بادیه ۱۵۰۸ میری ۱۳۵۸ کا ۱۵۰۸ ال°ے، مور⊸ل ᡣᢀ᠘᠐ᢣᢅᢖ᠁᠘᠘᠙᠙᠘ᢓ  $9^{\circ}$   $10^{\circ}$   $10^{\circ}$   $10^{\circ}$   $10^{\circ}$   $10^{\circ}$   $10^{\circ}$   $10^{\circ}$   $10^{\circ}$   $10^{\circ}$   $10^{\circ}$ ᡏ᠙ᡶᢐᢥᡗᢗ᠋ᠫᡣᢗ᠐ᡶᢥ᠑᠀ᢅ کا ہو۔ ᠐ᢇᡰᠤᢇᡚᡳᢕ᠙ᠺᢧᢛ Ċჼ┧Ϥ ∧アϤϧ·ϽͿϹϷኖ·Ͻჼ ۵۰۰۹۲ ۲۰۲۲ ۲۰۲۲ ۱۳۵۲ کی ۱۳۵۲ کی ۱۳۹۲ کی ۱۳۵۲ کی αζίϽϧϧϧͿΡαρσίλρμσίLC, ΔιLο ίβιΓας ΟςΟΔς

CLDa a<``)'65°C` P'-0+'D+ a<`D+ 4D-16'65-4D'6'C-1LC C40+0, 9[-30] كالمر كريها الإله المالي العرب الياح، 10+0 كاحرب الياح، 10+0 ۲۰زنک عرم ۱۵۱۲ کارد ۱۵۱۲ مرم ۱۵۱۲ کارد ۱۵۲۲ مرزنک ۵۲٬۶۲۲ کنانک ۱۲۲مه ۵۲ می ۵۲ می ۱۲۲مه ۱۵۲۸ کی ۱۲۸مه افزاد کو ۱۲۸مه ۱۲۸م ᡩᠯᢄᡓ᠅᠘ᢗ<sup>᠈</sup>᠑᠅᠘᠘᠘᠙ᢩ᠘ᠳ᠘᠘᠘᠘᠘᠘

نه ۲۵۰۱۲ عمر ۱۳ ۱۳۵۲ می ۱۲ ۱۳۵۲ می ۱۳۵۲۲۲۵۸ کا ۹۲-- ۱۵۲۱ ۱۵۲۱ کانک که تامین ۱۳۲۱ ۱۲ کان ۱۶۲۱ ۱۲ کانک

# Studying the Establishment of **Black Spruce at the Treeline**

his IPY research project conducted by Geneviève Dufour Tremblay and Stéphane Boudreau Centre d'études nordiques, Département de Biologie, Université Laval looks at the impact of climate warming and caribou activity.

Black spruce is the dominant tree species at the treeline in western Nunavik. However, its reproduction at the treeline is inhibited by harsh

> climatic and ecological conditions. While the production of viable seeds is limited by cool temperatures during the growth season, the lichen cover prevents the seeds from reaching the mineral soil, which is the more suitable seedbed for black spruce. Yet, the negative impacts of these two constraints could be reduced since rapid warming could lead to an increase in seed viability, whereas the recent increase in caribou activity at the treeline following the demographic growth of the Leaf-River caribou herd could enhance the destruction of the lichen cover, thus exposing the mineral soil. Therefore, climate change and caribou activity could have a positive synergic effect on black spruce reproduction.

> We studied a lichen-spruce woodland in the vicinity of the Boniface River. At this site, located close to the

treeline, previous research on black spruce seed viability was conducted 20 years ago by Luc Sirois, now professor at the Université du Québec à Rimouski. We harvested cones recently produced by black spruce to verify if viable seeds were more numerous in 2006-2007 than in the early 1990s. We also collected root scars produced by caribou hooves and some black spruce seedlings growing on disturbed and undisturbed soil. The sampling scheme was developed in order to determine recent caribou activity in the forest and to verify if there is a significant



۹۴۵، ۱۱۸۵۲ عمر۲, نهه۲۵۸۰۲ عمراد مر۱۲۵۵۲، ۱۲۵۵۴۲۵۴ هز۲۶۵۵۲ ۱۹۶۰ لد ۱۹۶۲ کو ۱۹۶۴ کار ۱۹۶۶ کار ۱۹۶ کار ۱۹۶ کار ۱۹۶ کار ۱۹۶ کار ۱۹۶ کار ۱۹۶۶ کار ۱۹۶۶ کار ۱۹۶ کار ۱۹۶ کار ۱۹۶ کار ۱۹۶ کار ۱۹۶ ک  $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$   $^{1}$ 

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ิก ८๋Կิ)५° 5Dac ᠕᠙᠙᠘ᠳ᠘᠘᠙᠘ .P024409. ۹۲۱۵۲ کو۲۱۵۲ کو۲۱۵۲ کو۲۱۵۲ کو۲۱۹۲ کو۲۱۹۲ کو۲۱۹۲  $$^4\%$ \ AP^{\cite{1}} \ AP^{$ ۸،٩٥٥ و بود ۱۹۵۰ مروز ۱۹۸۸ کی ۱۹۵۹ کی ۱۹۵۸ کی ۱۹۵۸ کی کار ۱۹۵۹ کی کار ۱۹۵ کی کار ۱۹۵ کی کار ۱۹۵ کی کار ۱۹۵۹ کی کار ۱۹۵  $a\dot{c}^{5}$ α<!>> \ρερι σεης ρειίτες!

Α \σειίτες

Α عم ۱۳۵۸ مو<sup>ان ک</sup>ر ۲۵۲ م ۱۴۵ مراند کاند. مانور ۱۲۵۵ حزنی ۱۲۹۸ ۱۶۸ ۱۶۸ محه ۱۲۹۸ ۱۶۸ کرد ۱۲۹۸ ۱۹۸۸ ᠈ᠫ᠙ᠵ᠘ᠸ᠘᠘ᢗ᠈᠙ᢣᡏ᠘᠐᠙᠙ᡯ᠘᠘᠆᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘ ۵۰٬۹۲٬۵۲۲ عمه ۱۵۰۲ مهر ۱۵۴۸ مهر ۲٬۹۲۲ مهر ۲٬۹۲۲ مهر ۱۵۲۲ م ۲٬۲۱۰ ک۸ ۵ کی ا

 $C\Gamma_{0} = 0$   $\Gamma_{0} = 0$   $\Gamma_{$ ۵۵-۵۰۱ کوکیان ک ۱۶۲۰ کی ۱۶۲۰ کی ۱۹۲۰ کی کریزی مرزیکو کی در و کرد سے کی کوری رايم به در ۱۹۰۵ مرنوایه بروره ۱۹۰۵ ۱۹۹۹ شوره ۱۹۹۹ بروره ۱۹۹۹ و دره ۱۹۹۹ بروره و دره ۱۹۹۹ و در ۱۹۹۹ و دره ۱۹۹۹ و ᢛᢗ᠃ᡥᡅᢧᡩ᠂᠕ᢅᢪᡳ᠆ᡏᢀᢑ᠘᠂ᢋᡥ᠘ᠮ᠙ᢣ᠒᠈ᢣ᠘᠗᠙ᢆᠸ᠆ᡏᡐᠻᠹᠽ᠙ᢓᢤ᠗ᠳᡒᡶᡣᢁᢆ᠂᠘ᠮᢆᡓ᠘᠘ᠮ᠘᠀ᢆ רב ארבו אפי stephane.boudreau@bio.ulaval.ca ■

relationship between caribou activity and seedling establishment.

Results for seed viability are striking and this increase in seed viability is believed to be

> related to the recent surge in temperature which translates into more energy for seed production. We also found that seedling establishment is closely related with soil disturbance. Indeed, most of the seedlings found on mineral soil became established after the period of high caribou activity which destroyed the lichen cover.

> These results support the hypothesis that climatic conditions and caribou activity could have a

ing years. Although the Leaf-River herd is now in decline, mineral soil should stay exposed for a long time due to the slow growth rate of lichen, therefore providing suitable seedbeds for even more abundant viable seeds. Contact:

These results support the hypothesis that climatic conditions and caribou activity could have a synergic effect on the Arctic treeline in the coming years.

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synergic effect on the Arctic treeline in the com-

stephane.boudreau@bio.ulaval.ca

# MAKIVIK magazine

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# University of the Arctic Membership

⊌በ%%しσ'⊌'≀በኑ βἐͼ, ረͿΔC°Γ ጳΦʻͿረ 11Γ° ጳΦʻͿረ 14, 200 9J° በΡ°ጋΓ⁵.

ULC C, σ δ6ρ.CDL Σ- Φ συ 4 συ « (۹۲ σ) - L, Σ σ σ 4 σ) . « C4.7b=10.91C $\Delta$ - $^{\circ}$ - $^{\circ$ ۵۲%۲ کو ۱۹۲۸ کو ۸۱۲۸۲۸ کو ۱۹۲۸۲ کو ۱۹۲۸ کو ۱۳۲۸ کو ۱۳۲۸ کو ۱۳۲۸ کو ۱۳ کو ۱  $\Delta c^* \sigma d r L \sigma D d^* \omega D \sigma^* 'b D d d^* \omega D \sigma^* \omega C'S \Gamma. \Delta \omega D d'b D \dot{\Gamma}^c$ **ϭϹϩͼϸʹϧϹϹʹϯϹ**  $\Lambda L \ell^{e} \Lambda L \sigma^{b} \Lambda^{L} L \sigma^{e}$  $\nabla$  =  $^{\circ}$   $^$  $4)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}(0)^{\circ}($ ተ\$~ የ5054 ለሚያ ነገር ተመመር ተ 647000'442° معرون ٦٤٥'615 معرون ٦٤٠٥ معرون ١٤٥٠ معروب ١٠٥ د ۲٬۹۲۵ م ᠤᠳ᠘ᠮ᠙᠈᠙᠘ᢆ  $\Delta c^* = 4 \Pi C D^2 + 4 C$ 

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۰۱ د ۲۲ LP° & D' ۷۲٫ ۳۹ سر در وړ وړ VISASC- $DJ^* = D \cap D \cup D^* \supset C \cup D \supset C$  $\mathsf{DCPP}^\mathsf{b}$  $\Delta$ - $^{\circ}$ - $^{\circ$ ۵۲% مو۱۸ م  $\mathsf{ULD4}_{\mathsf{c}}$ اک∆ٺ  $\Lambda \delta^{c} \delta^{b} C d = C^{b} L C$  $V = V_1 \cup V_1 \cup V_2 \cup$  $7^{\circ}$   $7^{\circ}$   $7^{\circ}$   $7^{\circ}$   $7^{\circ}$   $7^{\circ}$   $7^{\circ}$   $7^{\circ}$   $7^{\circ}$   $7^{\circ}$ ۵ م کار۱۲۵ نادل م م ۵ م ۱۵ کار ۱۳۵ می م ۱۵ کار می ۱۳۵ می ازم کار می ۱۳۵ کی می שלי¢) בשו"ם שח", סר"ר שש.



Makivik's nomination for membership to the University of the Arctic (UArctic) was accepted following a presentation by George Berthe at the 12<sup>th</sup> meeting of the University of the Arctic council, held in Kiruna, Sweden August 11<sup>th</sup> to 14<sup>th</sup>, 2009.

While the UArctic is not a "bricks and mortar" institution, it is a cooperative network of universities, colleges, and other organizations committed to higher education and research in

the North. Members share resources, facilities, and expertise to build post-secondary education programs that are relevant and accessible to northern students. The overall goal is to create a strong, sustainable circumpolar region by empowering northerners and northern communities through education and shared knowledge.

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During his presentation, George elaborated on how several UArctic programs are directly relevant to various organizations and institutions that exist in Nunavik. He made particular mention of Makivik's Nunavik Research Centre (NRC) that could be able to provide expertise and knowledge to other UArctic members. As it is, the NRC collaborates closely in several

studies with Government of Canada departments, provincial and territorial governments (Quebec, Ontario, Newfoundland and Labrador and Nunavut), Nunavik regional organizations, several Canadian universities (Laval, Calgary, Saskatchewan, Alberta, McGill, Waterloo, Trent, and Montreal) and with international organizations. The NRC also plays a significant role in the International Polar Year.

With Makivik's expertise, it is envisaged that programs on a case-by-case basis could be offered to students of UArctic

institutions. Makivik and other Nunavik organizations could then have the opportunity to work collaboratively on relevant Arctic issues such as global change, applied traditional subsistence, and eco-tourism, etc.

George Berthe also had an opportunity to share ideas and observations with representa-

tives of the Sami of Sweden during his trip to Kiruna, which included a visit to a reindeer ranch and other Sami cultural facilities.





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 $^{\circ}$   $^{\circ}$ 



 $\Delta$ L $^{\circ}$   $\Delta$   $^{\circ}$  CODJ  $^{\circ}$  CD  $^{\circ}$  C

 $\Delta \dot{b}_1 \cap \Delta \dot{b}_2 \cap \Delta \dot{c}_1 \cap \Delta \dot{c}_1 \cap \Delta \dot{c}_2 \cap \Delta \dot{c}_2$ 

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 $C^{5}C = 0^{5}C - \alpha^{5}\omega^{5}$   $O = 0^{5}C$ 

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۵،۹۲۲ سا ۱۵۲۵ ت ۱۳ بر ۱۹۵۶ س ۱۹۵۹ س ۱۹۵۸ س ۱۹۹۸ س ۱ دلاط ۸ عاد عدد عمد ۱۵ مهم مراح ۱۵ -DA 9Γ > '5° 5° 6° 2 '5 '7 '8 J - 5> '. Cd 8 - 5 'C 9 Γ / σ ' سلهجم والهوالهجاء لاحبهالبوالعيا  $\nabla^{C}$ ۹۲۸٬۲۵۴، ۵٬۵۱۲۸٬۲۵۲۲٬۱۵۲۲٬۱۵۴ ۵٬۵۱۲۳٬۱۵۳ اما الالماع، عوه ال أو كالمحروني مرطك واله 60.64 $^{\circ}$ C')  $^{\circ}$   $^{\circ}$  $\sigma$ PF19N, 40°CD°6°CD4P $\sigma$ ,  $\Delta$ P $\sigma$ P $\sigma$ VL $\sigma$ °6'L $\sigma$ ρωθυριώ 2.5 Λαθου ιριωίνου σεταενου ۵٬۴۵۱۲ م۵٬۲۵۵ مه ۵۷۰۲. عدم۱۲ وم۵۶ درمی ปะหาวเลา  $V_c 45^{2} L_{P}$ ۹℃کالگ۹۵ ۱۹۵۱ کا ۱۹۵۲ عمد ۱۹۵۲ عمد ۱۹۵۲ عمد ۱۹۵۳ و ۱ (۲۵۱م، برک ۱۸ یی دولاه. ۳



# **Use Your Ecobag**

More than a trend—a serious declaration for the preservation of the planet—many Nunavimmiut carry reusable shopping bags, as we witness many organizations giving away these cloth tote bags to their associates and clientele. Notably, more than a year ago the Nunavik Financial Services Cooperative introduced their "ecobag", stating, "The ecobag will, if used on a regular basis, substantially help decrease the number of 2.5 billion plastic bags used each year in Quebec. NFSC encourages Nunavimmiut to use the ecobag. This gesture will contribute to the beautification of Nunavik communities."



to be able to say we made it through the Passage in view

Nunavik

# **Cruising Through the Northwest Passage**

here were approximately 95 adventurous Arctic enthusiasts from around the world aboard the Lyubov Orlova for her inaugural trip through the Northwest Passage during the end of August-early September, including a film crew doing a story about the journey and Cruise North, to promote within the Olympics and the Canadian Tourism Commission's general tourism marketing efforts.

The ship's log for September 1st, 2009 recounts: "... the Cruise North flag at the ship's bow was replaced with a Canadian flag. As it was being run up in the lashing winds, a "Franglais" version of the Canadian National Anthem could be heard on the bridge, followed by a few bars of the Russian Anthem."

The Russian-owned Lyubov Orlova is leased each summer by Makivik subsidiary company Cruise North. It was an important feat for the ship

of climate changing conditions that are expected to permit increasing navigation through these waters during the years to come. Canadian Inuit settlements surrounding either side of the Northwest Passage are the main reason that Canada can lay claim to the Passage and the Arctic Archipelago. It has been homeland of Inuit for thousands of years, so it is important for an Inuit company to welcome international guests to experience the rich history and significance of the area, rather than a foreign company which does not represent the region through Inuit eyes.

The ice class Lyubov Orlova ran into multi-year ice at the start of the passage and luckily the Canadian Coast Guard vessel Sir Wilfred Laurier was close enough to meet the ship and break her through the Passage, which made for an was an exciting day for our passengers.

During this journey they were fortunate to see 28 polar bears, caribou, muskox, whales, and even a pod of orca whales — a rare treat in the region! Stops at historic sites included Beechy Island and Fort Ross, as well as scenically beautiful spots such as Somerset Island and Bellot Straight.

Cruise North president Dugald Wells recalls, "While we were bracing ourselves for a potentially difficult trip, given the amount of ice in the area at the time, our exceptional expedition team and ship crew, along with the Canadian Coast Guard, pulled together an unforgettable trip for our happy passengers."

# Δ<sup>1</sup> Υ Ͻ ϳ C <sup>1</sup> Ι <sup>1</sup> Υ <sup>1</sup>

**ታ** ወላሌ 2009Γ° ΛՐላጎልኄየረብኑ, Dbg°σ ۲۰۶۰-کن ک  $\Delta \rightarrow \text{``al'ide}$   $\Delta \leftarrow \text{`JO'b'} \land \text{`O'}$ 



 $\zeta_{P} = \nabla C_{P} = \nabla C_{P} + \nabla C_{P}$  $V_{\rm i}$ ےما∿۲۵۰ کو کا کو ک  $\Delta = \frac{1}{3} \frac{1}{3}$  $C_P = C_P + C_P$  $\Delta = \frac{1}{2} \frac{1}{2}$ کهر اردهان اونی ۲۰۵۸ کی از می کود حور ۱۹۰۵ کی ۱۹۰۵ کی ۱۹۰۹ کی از ۱۹۰۵ کی ۱۹۰۹ کی از ۱۹۰۵ کی ۱۹۰۹ کی ۱۹۰۵ کی ۱۹۰ **U₁P₁J** Cr,99% 264F-242L ۵۰۰ کف ۱۹۲۲ م او ۱۲ کو ۱۹۶۰ کو ۱۹۶ کو ۱۹  $47^{\circ}$   $67^{\circ}$   $67^{\circ}$   $67^{\circ}$   $67^{\circ}$   $67^{\circ}$ 

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# **Xstrata Supervisors Taught Inuit Culture**

Since January 2009, Xstrata Nickel – Raglan Mine has been providing its supervisors with two-day training sessions on cultural engagement.

This training includes a few hours on the history and culture of the Nunavik Inuit. This element allows the supervisors from other cultures to recount the ancestry of the Inuit living in the Nunavik commun-

> ities. Information is given on Inuit values that help them to understand the Inuit lifestyle and to see how this way of life is evolving as a result of the many challenges faced in a rapidly changing Nunavik.

> An Inuit employee working at the mine site participates in each of these two-day sessions thus promoting a more personalized interchange. The

supervisors' interest in learning Inuktittut challenges the Inuit employees' abilities and helps to initiate better communication between all the workers.





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 $0^{\circ}$   $0^{\circ$ 



### A New Milestone for NEAS

he warming of the North has permitted a new milestone for Makivik's joint-venture company Nunavut Eastern Arctic Shipping this year, when they completed a voyage by MV Umiavut through the Northwest Passage.

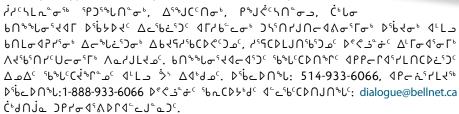


Carrying cargo of all sorts, she docked at Kugluktuk on September 10<sup>th</sup>, Cambridge Bay on Sept 12<sup>th</sup>, Gjoa Haven on September 15<sup>th</sup>, and Taloyoak on September 17<sup>th</sup>. Sailing conditions were so favourable that the ship was able to return from the Kitikmeot Region of Nunavut through the Fury and Hecla Strait, which is often jammed with ice. This short cut through the Fury and Hecla Strait saved

three days of travel. The MV Umiavut was therefore Canada's first Inuitowned ice class one vessel to go through the Passage.

Each Arctic sealift season, which runs from July to November, NEAS reliably delivers sealift, container, packaging and marshalling services for individuals, local communities, businesses, housing authorities, construction projects, and government departments and agencies across the Arctic.

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he next suicide prevention conference of the First Nations & Inuit Suicide Prevention Association of Quebec and Labrador, "Dialogue for Life VII", will take place at a downtown Montreal Holiday Inn from December 1st to 3rd, 2009. Pre-conference training is scheduled for November 28th to 30th, 2009. With the theme of Honouring our Children, our Grandchildren and Future Generations, the conference will include several presentations and workshops for those involved in, affected by or interested in suicide prevention. Reduced rates are offered by Air Inuit and First Air. Telehone: 514-933-6066, toll free: 1-888-933-6066 or email: dialogue@bellnet.ca to learn more.

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The services offered by Sapumijiit are confidential and available free of charge to all Nunavimmiut.

5245 jc 26F%;447,U74C  $V = C_c U_s C_c$ ,)j'd'd'd a bh'b'lbic,  $V^{2}$ CD $\Gamma_{4}$ ه و ه diipJnchchhhic د ۱۱۱۶۸ کا חיףי, חיבאנ ער־פונס שף איר־  $Cd+DJD^{c}S^{b}\sigma^{b}$   $\Lambda^{c}\rightarrow d\Gamma (d-DJ^{c})$   $\Delta \rightarrow d^{c}\sigma^{c}$ . ۵۲۲- ۱۹۸۰ کالت ۵۲۲ کالاهم ۱۹۸۰ نا۱۴ کالت  $\bigcup_{\rho \in A} D_{\rho} = \bigcup_{\rho \in A}$ ۲-۱٫۰۰۱۵ ۱۹۰۱۵ ۱۹۰۱۵ ۱۹۰۱۵ ۲-۱٫۰۰۱۹ ۱۹۰۱۹ ۱۹۰۱۹  $\Delta^{9}$ 60 $\Delta$ 6 $\Delta$ 6 $\Delta^{9}$ 1 $\Delta$ 9 ᠕ᠳᡪᡕᢗᢧ᠋᠋ᡅ᠙ᡯᡏᡕᠫᡳ᠒ᢆ ΔίίδοΔδησί. ΥλίΓλί Λαλίηθη ΔίίδοΔδι Γσ-۵۲۹-۱۵ دو۲دکن ۵۰۱۹ ۱۹۵۰ می ۵۱ کاعلاله ک ۵<sup>L</sup>ل ۲۲۵۶٬۲۵۲۵ د ۲۲۵۶٬۲۵۲۵ د ۲

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# Sapumijiit, Helping Victims of Crime

A criminal act such as an assault or a break-in can lead some people to experience stress and aftershock for a victim, a witness, or a family member of a witness or victim of crime. These are normal reactions that are symptomatic of post-trauma stress.

Sapumijiit, a crime victim's assistance centre for Nunavimmiut, offers sustained support to victims, their family members and witnesses

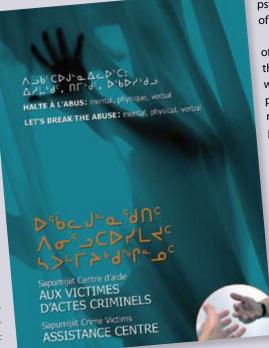
to help them overcome the physical, psychological and social consequences of crime.

Sapumijiit workers inform victims of their rights, the legal remedies and the financial assistance measures to which they may be entitled. They also provide technical assistance and make referrals to specialized health care, psychological and post-traumatic resources. Finally, Sapumijiit workers accompany victims and witnesses in court through the judicial process. Sapumijiit workers attend every sitting of the itinerant court on the coasts of Ungava Bay, Hudson Strait and Hudson Bay.

The services offered by Sapumijiit are confidential and available free of charge to all Nunavimmiut.

*Sapumijiit*, which was created in 2004 through a joint initiative of the KRG and the Quebec Ministry

of Justice, now has offices in three different communities: Kuujjuaq, Inukjuak and Kuujjuaraapik. To get in touch with the *Sapumijiit* worker nearest your community or for more information concerning the centre, contact the KRG Legal and Municipal Management Department at 819-964-2961 or 1-877-964-2961.











### ᠘᠙᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘᠘

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2247) ۲، گئے کے باتھ مرنی کے اُن کا ۱۹۸ کا مہاک العامی کا 2248 عدم، معرب ۱ عام، معرب ۱ 

 $\nabla = \bigcup_{i} P_i \setminus P_i$   $\nabla = \bigcup_{i} P_i \setminus P_i$ ᡏᠲᡲᠲᡅᡎᢆᢛᡩ<sup>ᡕ</sup>  $b^{\prime}\Lambda da^{\prime} C^{\prime}b^{\prime} C^{-1}LC$ 10-CD46P , ٔم ٔد۵۱∆ ۵۲<sub>%</sub>L<sub>°</sub>-۵<sub>۴</sub> ᡠᠳᠳ᠘ᡬ᠙᠘ᡨᡒᢤᡀᢤ  $\Delta$   $\Delta$   $\Delta$   $\Delta$   $\Delta$   $\Delta$   $\Delta$   $\Delta$   $\Delta$ ۲۹۲۶۲ ک ۲۴۵Δ۲Le<sup>5</sup>σ<sub>2</sub>°,  $CL^{b}dQ \wedge D \wedge CL^{b}Q \wedge$ ᢃ᠘ᡄ᠂ᠫ᠅᠘᠐᠘᠐᠘᠘᠘᠙᠘᠙ᠺᠻ᠒ᠰ᠒᠒᠙ᡒᠻ᠘ᢔ᠙᠒᠘᠙᠘᠙ᠵᠻ᠗᠙  $\Delta \Phi^{\circ}$ ic  $\Delta \Phi^{\circ}$ ,  $\Delta \Phi^{\circ}$   $\Delta \Phi^{\circ}$   $\Delta \Phi^{\circ}$ -۱۹۵۱ ده ۱۹ دا ۲۹۵۲ کو ۱۹۵۳ ده ۱۹ د ۱۹۵۳ ده ۱۹ د ۱٬۹٫۷ C9c4DUc4eCOc4De4Le᠘᠘᠙᠙᠘  $\Delta \dot{\omega}$   $\dot{\omega}$   $\dot{\omega}$ P3.44ULJU9.43C9 <sub>.</sub>የረላብዓት**ኦ**ኤ 1P552640 ᠳ᠋ᢗᡶ᠙ᡲ᠑ᠳ᠍᠈᠂ᢗᡆᢉ᠊ᢣᠣᢛᠲᢗᡶᡏ᠐ᢖᡄᠴ᠂ᢣᢚP᠓ᢗᡶᢝᡄ᠊ᡏᢛᠲᡗᠫᢣᢧᢗᢗ  $\Delta = \Omega \cap \Gamma$  CL'C  $\Delta = \Gamma \cap \Gamma$  CL'C  $\Delta = \Gamma \cap \Gamma$ 

### Let's Eliminate Violence

November 25<sup>th</sup> 2009 will be Nunavik's official day for the elimination of violence against women. This day will be an opportunity to show that Nunavimmiut are supportive of a peaceful society and are against any kind of violence. There will be activities organized in Nunavik communities. We are asked to collaborate in partnership with representatives from the Nunavik Regional Board of Health and Social Services, the Saturviit Inuit Women's Association of Nunavik, the Kativik Regional Government, the Nunavik Women's Shelters and the Northern Villages. If you are willing to get involved or if you need additional information, contact: Martha Annanack, coordinator for elders' and women's Issues, KRG (819-964-2961 ext. 2247) or Sylvie Ricard, family violence and sexual abuse agent, NRBHSS (819-964-2222 ext. 244).



For some, family life has become an ordeal characterized by alcohol, drug abuse, and a loss of cultural values, which often leads to violent behaviour. It is time to break the cycle of violence, regain control, and rebuild healthy families. Men and women are role models for our children and have the responsibility to demonstrate peaceful ways of living together. All Nunavimmiut are invited to act against the violence that affects our communities, so that our hearts, our souls and our lives are focused on creating a better life for all.

*Photo:* Representatives of social services institutions and Makivik met to discuss the issue of domestic violence in Nunavik. Remember to be kind and compassionate to others.

# **∇**ᢦϽ**;**₽<u>ኒ</u>℮<sub></sub> ,۹<sub>໒</sub>ϛUʹϒገህ*เ*₽ዓ<sub></sub>ϧ<mark></mark>ባԳ,LԽ<sub>୧</sub> <mark></mark><mark></mark>4<sub></sub>L4L, ዓ,ԿL</mark>ት<mark></mark>Ϸ<mark></mark><mark>4</mark>,2,2,



# Honoured for Promoting Elders

Johnny Peters received the 2009 *Prix Hommage* delivered by the Conseil des aînés du Québec on October 1<sup>st</sup>, 2009. He was cited for his long and vigorous career in striving to highlight Inuit culture and specifically the critical role that elders play in maintaining this heritage. Johnny was

instrumental in implementing Makivik's Land Use and Ecological Data

Base project that documents
Nunavik Inuit knowledge for
posterity. He was honoured
along with 16 other Quebec
recipients. The choice of
candidates to receive the
award is determined by the
Elders Council of Quebec
based on criteria including
who plays an important role
by enhancing the well being
of senior citizens, their condition and their place in society.



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שלת 2009 שוחישו, בהיללה 14 שווח שוב 20% – בנישיר ה ביני. אףל, לה, הס ללה לינש זי בינארישי – בבסדירה

ΔαΛ(ΓΟΥ)

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# **Artist's Residency Includes Inuit**

In January 2009, Inukjuak became the 14<sup>th</sup> community—alongside London, Tokyo, Paris, New York and Rome—to enrol in the list of eligible destinations for the artists-in-residence programme of the

Conseil des arts et des lettres du Québec (CALQ).
Each year, one artist from Nunavik and one from southern Quebec will be selected for a two-month artist's residency in Montreal or Inukjuak. These cultural exchanges will give the grant recipients the opportunity to

expand their artistic horizons and to explore their art in a welcoming environment.

Nimalan Yoganathan, who records and applies various sounds as forms of art, travelled to Inukjuak from

his home in Montreal this past August to record the sounds in and around the community as materials for his work. In exchange, painter Jessie Koneak Jones of Kuujjuaq began her artist's residency stay in Montreal this fall.



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## **Looking New in the Virtual World**

By now the readers of *Makivik Magazine* are fully aware that all of Makivik's publications including *Makivik Magazine*, *Makivik News*, *Taqralik*, and *Atuaqnik* going back more than 33 years are freely available on the Internet and new magazines such as this one are uploaded to the archive as they become available.

In the same vein, in early September the Avataq Cultural Institute also placed their cultural magazine, *Tumivut*, up there for all to access—again thanks to the Bibliotheques et archives nationales du Quebec. As with Makivik's publications, the digitized version of *Tumivut* is keyword searchable and creates a permanent record of this important cultural publication.

Also in the virtual world, the websites for both Makivik Corporation and Avataq look new again. While the cost of our own website (makivik.org) is covered within Makivik's operations budget through the Information Department, it was thanks to a grant from Heritage Canada Canadian Culture Online that Avataq's website (avataq.qc.ca) has been completely renewed.

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# Farewell, Emily Novalinga

Nunavik poet Emily Novalinga, whose recent works included a poem engraved onto a stainless steel chair as part of a Michel Goulet art assemblage—a 400th anniversary gift from Montreal to Quebec City—suddenly



passed away this past October 18<sup>th</sup> at the age of 55. Just days before her death, Emily had mentioned to *Makivik Magazine* that she was planning to embark upon a tour of Nunavik to tell stories and recite poetry to the schoolchildren. She was chosen winner of Nunavik's first *Aumaaggiivik* grant for literature, which is a program established by KRG and Avatag.

One of few published Inuit poets, Emily is was an inspiration to all who knew her.

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# Nunavik notes

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ל בר יףינטחיקבת זיטי מליטיחרי זיטי פב איטיח
לטחבי אניטיסדטואיטבי ישב ברי", כיטיס איטיחבי אניב" ברטבי איטיחיי אנייטיסדי ישב הברי", כיטיס איטידיי אברי אריי כיטיסייע ישב איטידיי אברייחי ליטבי אוב טובייטילי איטי ברי ארניי ליטיש איטיידיי איטיידיי ליטיי איטיידיי אמיקטירערי כיטיסיידי אמיקטירערי ליטייטיסיי ליטיי ליטיי אמיקטיי אמיקטיי אמיקטיידי אייקטיידי אמיקטיידי אמיקטיידי אייקטיידי אמיקטיידי אייקטיידי אייקטייליילי אייקטיילייל

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# Federal Funding for You

Canadian Heritage provides funding for activities organized during the "Celebrate Canada" period, which runs from June 21<sup>st</sup> to July 1<sup>st</sup> so we trust that this advance information gives readers ample time to apply. This funding is to be used to

help celebrate one or more key days falling within this period, including *National Aboriginal Day* (June 21<sup>st</sup>), Saint-Jean-Baptiste Day (June 24<sup>th</sup>), and Canada Day (July 1<sup>st</sup>).

Organizations eligible to apply for this funding include non-profit organizations, municipalities, cooperatives, unincorporated associations, and even businesses that are engaged in celebration projects that are non-commercial in nature. The funding can be used to cover the costs of fireworks shows, promotional and entertainment expenses, and traditional food on National Aboriginal Day.

Although it may seem a little early to be thinking of events that will be taking place next June or July, the cut off date for applying for funding under the "Celebrate Canada" program is early in the new-year (typically at the end of February). Therefore, plans for organizing activities and making the necessary funding applications have to be finalized well in advance.

Check the Canadian Heritage web site, or contact the regional Canadian Heritage in Montreal, to find out when the government will be receiving applications for funding under the Celebrate Canada program for 2010.

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# Vote for Makivik on January 21st

Inuit James Bay and Northern Quebec beneficiaries are again reminded that the day for Makivik Corporation's executive universal elections has been changed from the last Friday of each annual general meeting to the third Thursday of each January. Consequently, voting for the positions of Vice-

President for Economic Development and Corporate Secretary are scheduled to take place on January 21st, 2009. Please remind your fellow Inuit to cast their vote next January 21st.

# DVPdc

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 $LFL_{P} = AC_{P} = ASUL_{P} = A$ ንየተሆላየያነብነ ላይ ተከተለየ የነገር ላይ ተከተለ ᡶᢀᢀ᠋᠘᠋᠘᠒᠙᠙ᡩ᠘ᠳ᠘᠄᠘᠙᠉᠙᠒ᠵ᠙᠒᠘᠙ ۹۸°°کاه <sup>۱</sup>ه وزر ᠆ᠳ᠐᠘᠘᠘᠙᠙ᢥᡀ᠙ᡀ᠐᠒᠒ ᠳ᠑᠘ᡶᢀᢐ᠘ᢗ᠘ᠳ  $4^{\circ}b^{\circ}\sigma\Gamma^{\circ}$  ( $\Delta c^{\circ}a$ ) $^{\circ}b \wedge ^{\circ}\Gamma\Gamma\Gamma\sigma^{\circ}\Delta c^{\circ}a$  $^{\circ}a$  $\dot{c}^{*}$ J'\change\text{\text{1}},  $\dot{c}^{*}$ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\texi}\tiext{\text{\text{\text{\te ላ°ጔ\$'‹ፖL<sup>ℂ</sup>ፖላሊላ'ቴ'ፖበ<sup>ቴ</sup>, Ժሊጾሀበ⁻ጔ በPC-᠔᠙ᢏᠵᡧᢕ᠂ᡏᡕᡳᠮᢣ᠘ᢩᠳ᠈᠘ᡒ᠗ᡨᡍᡕ᠐ᡑ᠘ᢋᢆᡷ "P'~\P'\A\c\\\" CL'44 Q\D\\\\" LC  $\Delta \Delta^{\circ} \Delta^$  $aPFD+De^bla^*\dot{e}^c$  42'NaJ.  $P^bJe$ 2'6bble, ᠘᠆゚ᠳᡏᢗᠮᠳ᠈᠕ᢣ᠌ᡅ᠌᠌ᢪᡳᢗ᠌᠌᠐ᠳ᠋᠋ᠻᠤ᠊ᡲ᠘ᠾ᠙᠘ᠮᠳᡒᡅ  $\Delta$   $\stackrel{\circ}{=}$   $\stackrel{\circ}{=}$  <sub>Թ</sub>JՀ∖LC⊸ ∠ر ۵۸ ع د کا⊸رے ᡏ᠔᠕᠑ᡓᠳ᠘ᠳᢣ <del>۵۲</del>% ۱۳۶۲ و ᢀ᠘ᢗᢖᢐᡒ᠒ᢒᠳ ᢀ᠙ᠾᢥ᠘᠘ᢥᠳᢙᠻ UĿ ~\_ درړ و ا ᠘ᡄ゚ᠳᡏᡅᡬ᠊ᡏᡲᡉ᠍ᢛ᠂ᡰ᠘ᡏᠳ᠘ᠸ᠘ᠻᠫᡑᢐᡗᡄᡕ᠘᠄

Cr,94ccD2P  $V4^{\Gamma}V0V0^{2}$ LP° A J - a a A D - a - A T L L ~ 1 A ~ 1 - a · .  $C\Gamma_{P} = V_{c} + U_{c} + U_{$ -دا∿ےف10ءے∆  $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $^{6}$   $\Delta c^* \sigma \sigma c c c \sigma \rho^c \wedge \Delta c^* \Gamma^* \Gamma^c \wedge \Delta c^* \sigma \sigma^{-1}$ کو روناد ۱۳۹۸ کو ۲۰۱۲ کو ۲۲ ᠘ᡱ᠌ᡝᡥᡗᢪᢛᡃ᠂ᡠ᠕ᡏᡆᠻ᠋᠐ᢗᡝᡖᡣ᠒ᡶ᠘ᢣᡳᡬᠲ᠈ᠮ᠋ᡗᢆ ۵۵۰۵۲ م ۱۲۵۲ موم ۱۲۵۲ مام کی م ᠗ᡀ᠘᠘᠘᠘᠙ ᢩᢣᢀᢀ᠋᠘᠘᠘ᢤ᠙ᢗᠵᢤ᠘᠐᠈  $\Delta c^* \sigma d \Lambda d^i \Gamma L L \Delta^i \Omega \Delta \Gamma^i$ . Due  $\Lambda L^i > 0$ **ጎ.**የ. ኣሀ. ኣዋ. ሚያ ላይ<sup>C</sup>. ኣያኒት ልፋ<sub>₽</sub> የሀሚ<sub>የ</sub> ᠘ᠸ゚ᠳᡏᢐᡄᡳᠳᡃᠳᢩᢁ᠁ᠺᡃᢘ᠒ᢉᢣ᠐ᢆ᠘᠀ᠫ᠘ ۲٬۴۰۲ مې ۲۰۱۵ و ۲۰۱۲ کې ۲۲ کې ۲۲ کې ۲ کې ۲۰۱۲ کې ۲۰۱۲ کې ۲۰۱۲ کې ۲۲ کې ۲۲ کې ۲۰۱۲ کې ۲۰۱۲ کې ۲۰۱۲ کې ۲۰۱۲ کې ۲۰۱۲ کې ۲۰۱۲ کې ۲۲ کې ۲۰۱۲ کې ۲۲ کې ۲۲ کې ۲۲ کې ۲۲ کې ۲۰۱۲ کې ۲۲ کې ۲ ۹۲٬۶۳ ۲٬۶۳ ۹۹٬۵۰٬۹۲۶ ۹۵٬۵۳۶ ۹۵٬۲۳۶  $\mathsf{UCD}_{\mathcal{C}}(\mathsf{SU}_{\mathsf{P}}) = \mathsf{PV}_{\mathsf{P}}(\mathsf{L}_{\mathsf{P}}) + \mathsf{QU}_{\mathsf{P}}(\mathsf{PV}_{\mathsf{P}}) + \mathsf{QU}_{\mathsf{P}}(\mathsf{PV}_{\mathsf{P}})$ ۵٬۲۲۹-۲۰، ۲٬۹۵۰ ۱۵۲٬۶۵۲ و ۱۵۲٬۶۵ و ۱۵۲٬۶۵۲ و ۱۵۲٬۶۲ و ۱۵۲٬۶۵۲ و ۱۵۲٬۶۲ و ۱۲٬۶۲ و ۱۵۲٬۶۲ و ۱۵۲٬۶ و ۱۲٬۶ و ۱۵۲٬۶ و ۱۵۲٬۶ و ۱۵۲٬۶ و ۱۲٬۶ و ۱۲ و ۱۲ و ۱۲٬۶ و ۱۲ و ۱۲٬۶ و ۱۲ و ۱۲٬۶ و ۱۲٬۶ و ۱۲ و ۱۲٬۶ و ۱۲ و

 $CL^{6}4$   $Cd^{5}4N_{-3}4^{5}4C^{5}$   $4^{5}44N_{-4}$   $4^{5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-5}4N_{-$ 

 $\dot{L}_{\alpha}$   $\dot{L}_{\alpha}$ 



ליל שהף הףף הייי איטה ייירל בר בה התלתל הליל בר בה לתלתל הלילה לתהל הייי ללונים לה לילה לת לכר בה ללכר בה לילו בה לילו בה ללכר בה לילו בה לי



# A Glimpse of Student Life

Although going to college down south can sometimes be invigorating, it is not always easy or just fun. Very soon the students find out that there is plenty of homework to do and that homework must be finished by a specific day, no matter what. And there are exams to write on a specific day so students must study and be prepared for the exam on that day, no matter what. The homework assignments must be properly researched and written and the answers on the exams have to be correct in order to pass the exam. Basically this is what it is all about; which is why we always say that a student "earns" their diploma. The student does the work and the diploma is their reward for doing the work correctly.



Joe Tukaluk with a girl that he met at La Ronde last August.

In the meantime students have to deal with other parts of their life besides sitting in the classrooms, managing their time for

gers (and new friends), eating properly, dressing neatly, and the unexpected heartaches or "bad days" that happen to everybody else no matter who they are or where they are living. Upon reflection, a graduating student is always proud of their effort and realizes that their struggles through college were well worth it. And of course there are few events quite as wonderful for the family of a graduating student than to see their loved one succeed!

It is also a proud event for Makivik and other Nunavik organizations. For instance this is why Makivik supports postsecondary students with a special schol-

arship fund as well as computer needs. The staff of KSB's Student Service Department certainly do their part to make life pleasurable and



Joseph Junior Annahatak, Christina Deveaux and Larry Elijassialuk (back-on) waiting for "the splash!" to hit them at La Ronde.

homework assignments, reading, and writing. For instance there is often homesickness, getting used to being amongst so many stran-

interesting for them, despite the challenges these young Inuit from Nunavik have signed up for. Aurélie Brisebois is the activity animator for



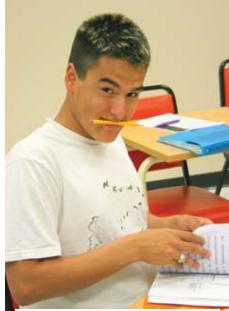
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 $\Delta$ c ፟ቈ  $\Gamma$ σ <sup>ト</sup> Cd  $\Gamma$ ላ  $\Gamma$  <sup>ト</sup>  $\delta$ d  $\Delta$   $\Gamma$  <sup>L</sup>  $\Delta$  <sup>C</sup>  $\Gamma$  <sup>L</sup>  $\Delta$  <sup>L</sup>



ኣውበብታና ርታናለብታና: ታው ረናይትና, ፈላፈተ ቴሀናት, ለር ሳርቦ, ላቪት ፈር ረናት ላካር ታሪካ ጋይ. Left to right: Johnny Padlayat, Joanassie Cameron, Peter Adams, Amanda Baron and Susan Nulukie.



Josie Amamatuak during the college preparatory program at Marie-Victorin College last August. This program is in place to give the opportunity to students to live real student's life two weeks before the beginning of the school year, facilitate student's integration to college life and diminish the effect of stress related to studying in the South.



אה לשלים וכּלוֹץ זְינִישׁ. Sapina Snowball and Melissa Rustin.





The Marie-Victorin College students, who are studying in French, also went to Radio-Canada because Elisapie Isaac was recording a television show where she was being interviewed by TV personality Rebecca Mckonnen. Unfortunately, she could not stay after the show so they were unable to take pictures with her. The show was on TV this past October 4th. Elisapie's new CD, "There will be Stars", is her first solo recording and is the much anticipated follow up to the internationally acclaimed, award winning duo *Taima* which she co-founded with Alain Auger in 2001. Elisapie welcomed the Inuit students that came to the recording.

KSB who organizes activities every two weeks during the school year to facilitate communication between all the Nunavik students that are studying in Montreal. Particularly in this issue we feature several pictures of students taken at the beginning of the new school year at Marie-Victorin College and some of an activity that they attended at La Ronde Amusement Park on August 24th where all the students for the 2009-2010 year were invited.





Along with others from Nunavik, Makivik Corporation wishes all of our students nothing but the best for your educational adventures. Sometimes it may difficult, but know that you have what it takes to succeed. Take advantage of all the support that you have available to finish your courses successfully. We applaud you, each and every one.



# $VL_{1}$ $VL_{2}$ V

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\rightarrow \D\formall \Gamma\rightarrow \D\formall \Gam  $\Delta c^* \sigma dC \Gamma \sigma^b \Lambda b \dot{c} c D d S^b 2009 \Gamma$ . DL0,409c ΦD,50-σ-2L, VLD,72D4Φc  $\neg D$ く D  $\rightarrow C$   $\subset V$   $\rightarrow C$   $\cap C$ (زم د ۱۹۸۵ کر ۲ تے ۲۸ هاره ۵۰٬۹۶۲-۲۵۰ ۸۵٬۵۲۰ مأم۱۲۵٬۳۵۲ م ۲۵۰ ۱۵۰ ۱۵۰ ۱۵۰ ۱۵۰ ۱۵۰ ۱۵۰ ۱۵۰ ᠳᠮᡝᡶᠳᢐ᠘ᠸᢧᢋᡒ᠘ᠸ᠘ᡧ ᠗᠘ᢗ᠈ᢧ᠘ᡏ  $\Delta^{\circ}\Gamma$   $\Gamma^{\circ}$   $\Gamma^{$ -C-1,CUP<sub>0</sub>,Γ<sub>0</sub>, L<sup>ω</sup> 4, F 4 σ 2, L<sup>ω</sup> 7, L<sup>ω</sup> 2, L<sup>ω</sup> 2, L<sup>ω</sup> 2, L<sup>ω</sup> 2, L<sup>ω</sup> 3, L<sup></sup> .د۲۰نا۲۵۶۲۶ نکموهٔ ۷نا۲۵۰نه، ۵۰۱۸۶ نکموهٔ  $\nabla P4_t LP0 = 0.11$   $\Delta \triangle^{c} \cap \dot{\partial} f^{*} = \triangle A^{L} + C.$   $\Delta \triangle^{c} \cap \dot{\partial} f^{*} = \triangle A^{c} + A \triangle^{c} = \triangle^{c} + A \triangle$ 



በል Δናጋኈ 'ፀ፡⅃ላበተረዛ' ለጋናተኒኦበሩ-۲ ኦነጐ-ኦበՐ፦ ላጋናጋጐ ርናናና Ժኦናዖጋራ-ኢትነժውና ኦፐላናጋዀርኦናላԺ.

Tivi Etok on a satellite phone during his Cruise North adventure.

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# Louisa Tookalak, one of Several Outstanding Cruise North Trainees

### By Susan Aiken, Cruise North Botanist

ouisa Tookalak graduated from high school in Puvirnitug in 2009. One of her high school teachers had encouraged her to apply to the Cruise North Trainees Program. On July 2nd, she arrived in St. John's, Newfoundland and joined the ship, Lyubov Orlova. At first, she was overwhelmed and homesick for her family, in particular her little sisters. When the ship sailed from St John's into the swells of the Atlantic she was incapacitated with seasickness and was really miserable. She responded well to seasickness medication and gradually came to understand ship life and what was expected of her. She was helped because several people on board spoke Inuktitut. Elder Tivi Etok, who was on board, spoke only Inuktittut.

Louisa's job included eating meals with passengers and answering questions they would ask. She did this with poise and pride telling people about where she lived, what she had done at high school and what she planned to do after leaving the ship. When she told of being accepted into a course to become a heavy equipment mechanic, she was asked how this had happened. Louisa modestly replied, "They wanted to have a girl in the program." For many passengers, Louisa was one of the

first Inuit they met. She was an interesting and excellent ambassador for Nunavik.



In Kujjuaq at the end of the cruise from St John's, Louisa phoned her parents and learned they were about to leave for their summer camp on Mansel Island. It was possible that the ship might go there on the way to or from Churchill. This happened on the return cruise. That night that plans





۵۰۲ه مفول ۵۱۲ کارمان 407L 449 LL440 LD 440 D 440 D 440 ۲۱۵ کے فر فا، ۱۹۸۶ کار ۷ کو۔ ۲۵ کار ۱۹۸۶ غ∆∠ه >٠٤ح٩-٥-٥ کهم ٔ ۵ -۱٬۲۵ هورنی ۵ می ند کو ما که ۱۲۵ می که ۱۸۵ می د ا تار  $\sum_{c} 4 \sigma T_{c}$ ےف9°ہے خہ17⊾ ('σ-c)44c D[0,409] σ(5,0)4c, 2006F >'4~-9,0~ 1,0~ 4,0~ 4.0° C9. TUCD-CD44c

Ç۱۹۹  $^{\circ}$   $^{\circ}$   $^{\circ}$   $^{\circ}$   $^{\circ}$   $^{\circ}$ ۱۲۶-۱۹۲۰ کمه کوم ۱۹۲۰ ۱۹۲۰ ۱۹۲۰ ۵٬۲۲۵ مر۶ مرده مرده می می می از کار می نواز کرد افراد از کرد افراد از کرد افراد از کرد از کر ᠈ᠳ᠘ᢇ᠆ᢗᠲ᠈ᡆ do hCb  $DLQ_{d}4Qq_{c}$  $V_{\text{L}} = V_{\text{L}} = V_{\text{L}}$  $\Delta \triangle^{\circ} \cap \mathcal{O}^{\circ} \cap$ ح-۲۵۶٬۹۹۱ ح-۲۵۶٬۹۹۱ م DNSF

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60% Le DLA¿UT >. 497, 796-5044.

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For many passengers, Louisa was one of the first Inuit they met. She was an interesting and excellent ambassador for Nunavik.

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۵۱۱۹ ۱۹۲۹ میر در ۱۹۲۸ می از ح  $C^{\varsigma}$  ~  $\mathsf{L}$   $\mathsf{D}$   $\mathsf{D}$   $\mathsf{L}$   $\mathsf{D}$   $\mathsf{D}$   $\mathsf{L}$   $\mathsf{D}$   $\mathsf{L}$   $\mathsf{D}$   $\mathsf{D}$   $\mathsf{L}$   $\mathsf{D}$   $\mathsf{L}$   $\mathsf{D}$   $\mathsf{D}$   $\mathsf{L}$   $\mathsf{D}$   $\mathsf{D}$   $\mathsf{L}$   $\mathsf{D}$   $\mathsf{D}$ 

 $-D_dSLL_c$ 744-5 LA. 5-4-6 CLDP244L 26627rc 2024402 L97c D-11-0,20,406, 11-0,60,417-4 ما∿ل لرن مدر) ۱۹ ۵۶۹۵۵ و ۵۶۲۹۷ ᢖᡆᢣ᠙᠑ᡏ᠕᠈ 2674296 4026 کا ہو  $\Lambda$ ያጋጌ $\Delta$ የገነይል የ  $\Delta LD^{\varsigma}$ ۹<sup>-</sup>- ۱۵<sup>-</sup> و ۱۵<sup>-</sup> و ۱۵<sup>-</sup> و

 $\Delta^{C}$ ۱-۵۲۵،۲۵۶،۲۵۶ که ۷-۹۵ د۵۲ د ۱۳۵۰ د۵۲ د ۱  $D\Gamma 4^{5}44J^{c}D \Pi_{c}4^{5}B\Gamma_{c}^{5}AD\Pi_{c}D44^{c}. \Delta\Delta 4$ افعه فاتحه (۱۹۲۵ مه ۱۹۵۵ که ۱۹۵۱ که ۱۹۲۷ د) در افعه فاتحه افعه فاتحه افعه فاتحه فاتح فاتحه فاتح فاتم فاتح فاتح فاتح فاتح فاتح فاتح فاتح فاتم فاتح فاتح فاتح فاتح فاتح فاتح فاتم فاتح فاتح  $\nabla \neg \downarrow_{c} q_{c} + \neg \downarrow_{c} Q_$ کا<sup>د</sup> عکا عه اتحه ۸ حد کرد کارهار کار  $C\dot{L}^{\circ}$   $UC^{\circ}$   $\Delta \Delta \Delta \Delta C^{\circ}$  $\Lambda^{\sigma} \Lambda_{c} CL^{2} \Lambda_{c} \Lambda_{$ ᡃᡖᢦᢆᢗᠲ᠇ᢩᡶᡄ᠈ᡶᡳ᠐᠈᠈᠘ᡧᡗ᠈ᠻ᠐ᡶᠲ᠈᠂᠒ᠵᡲᡖᡲᡳᢛ  $\Delta^{c}$ 



Louisa's family approaches in a freighter canoe.

 $25^{\circ}$ - Caλ5'C'6'dσ4'e'!" ΔΔ5 CLDΓ% "dĊCLL!"

2009،۵۲۰ م۵۲ ۱۳۹۵ (2009 σρισος οιργισος σοιρογούς σ  $\Delta \dot{L}^{b}$ , "UL" "L"  $\Lambda^{b}L^{c}$   $\Lambda^{b}L^{c}$   $\Gamma^{c}\Lambda^{n}$   $\sigma^{b}$   $\rho \rho h = -1$ د٥٠٢٢٢٢٤، >٠٤٥ - ١٩٤٥٥ أع الله عنه الله  $D^{2}$ 

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for a landing next day on Mansel Island were given to passengers and pictures from a 2006 landing were shown.

These included a picture of two tents pitched near the shore. Jason Annahatak was a Cruise North trainee that year and he

approached the tents speaking Inuktittut to the people staying there. He was invited in and returned to the ship and reported that the large tent had "everything — even a TV!" When Louisa was told of this incident she replied proudly, "That's my Dad!"

In 2009, Louisa addressed the room full of passengers and other staff saying, "I have been going to Mansel Island every year since I was about three years old". She told people that the family had a cabin well inland from the beach and that at first she was so afraid of polar bears that she spent most of her time on the island in the cabin.

The next day as the Zodiacs approached the landing at Mansel Island it was very obvious that there were no tents and nobody around. Louisa, and everyone present, who hoped she would find her family, felt sorry. With people who wanted a strenuous walk Louisa headed inland towards her family's cabin. They were soon out of sight. Meanwhile, people who were taking a gentle walk had just left the shore when they turned and saw a freighter canoe approaching. The silhouette suggested two parents and four "little sisters".

When they landed they told of being down the coast and seeing the ship in the distance. They had come to try and see Louisa.

Louisa's father produced an all terrain vehicle and a wagon and the family took off to drive inland looking for Louisa. Even on

# PPV V. V. PJAU

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 $\mathcal{D}^{c}\mathcal{D}\Lambda\sigma^{c}\Gamma^{b}$   $\Gamma \mathcal{L}^{c}\mathcal{D}\mathcal{L}^{b}$ ۴۴۰۲۹٬۹۵۲۶ و ۱۳۶۰۲۹ و ۱۳۶۰۲۹

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 $P^{c}$ ماک ۲۰۶٬ ماک



# Nunavik Player

Name: Louisa A. Tookalak

Date of birth: October 27th, 1989 Place of birth:

Puvirnituq Home community: Puvirnitua Favorite person: My sister Brenda

Favorite food: Boiled caribou with missuraq

Favorite sport: Volleyball

Occupation: Trainee, Cruise North

**Expeditions** 

Future goal: To become a heavy equipment

mechanic

Toughest challenge: The loss of my cousin Victoria

Pet peeve: Mosquitoes



the very flat island they soon disappeared in the distance.

Passengers resumed their walking looking for plants. Mansel Island has been rebounding out of Hudson Bay since the last ice age and the shoreline is a series of beach ridges. There are few plants on the exposed tops of the ridges, but areas of continuous plant growth on the lower ground between the ridges.

Some passengers went sea kayaking, others ventured in for a swim. It was a very pleasant afternoon but too soon it was time to return to the ship. And that is when we discovered Louisa and her parents had found each other. The family was persuaded to line up for a pictures and everyone saw exactly why Louisa is so fond of her four little sisters.

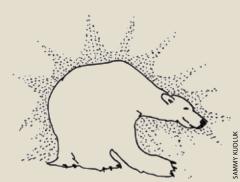
From then on Louisa flourished in her Cruise North Adventures. In Douglas Harbour she joined others and went swimming off the ship.

Louisa also worked on the ship for the Students on Ice Program cruise. When she left the ship in Igaluit, on August 12th she reported enthusiastically that she has been asked back to work on the ship next year. With her heavy mechanics training she may be helping the Russian crew repair the ships engines!

# ۷۳.۱۵۱۹ مار ۲۵۹۰ ۱۹۵۹ ۱۹۵۹ ۱۹۵۹ ۱۹۵۹ ۱ $V = V_c = V_c = V_c = V_c = V_c$

۵۵۰ مامامه کا ۱۹۶۲ مزبر ۱۹۶۵ می کا صهرای کی کوشونی کی کوشونی کی کوشونی کی کوشونی کی کوشونی کوشونی کوشونی کردند کرد ۵۵۹۲۹۵ مراباد حری برخر۱۹۵۰ ز زیرل ۱۵۱۵۶ مرایه به ۱۵۱۸ مراب

۸۵۲۲۶۶  $\Lambda$ ኖ్-4በ $^{\circ}$ ሪታ $^{\circ}$ . LP $^{\circ}$ ልCD $^{\circ}$  9 $^{\circ}$  $^{\circ}$ کہ ٌہ 4a%9J4iob ده ۵۵ موا ۸۵۲۲۹۸۳ - ۵۰۶۹ 1076-01- $V_c451UL_5L_6$   $V_c451UL_5L_6$   $V_c451UL_5$  $JU_{\ell}P_{\ell}P_{\ell}C_{\ell}P_{\ell}A_{\ell}C_{\ell}P_{\ell}$ °ود۲۶۵ و NPC-DL~2470°. ■



# **Spinoff Opportunities** from Cruise North

ruise North Expeditions is a subsidiary of Makivik Corporation that brings tourists

from all parts of the world to see the splendour of the North. Through the eminence of its passengers and alluring Cruise North package of adventures, Cruise North has also proven to be an effective medium to publicize knowledge and challenges of the Inuit worldwide. The company's training program for youth to work aboard the ship is just one of the spinoff opportunities provided by this venture. Makivik also strongly encourages any craft producers or entrepreneurs in Nunavik to make your services and products available to these tourists when they arrive in your community

# 26 L V. 214U

\_\_ P4U a 16 **մՈ**∿ե։

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 $\Delta^{c}$ ک  $\Delta^{c}$ عو ۵غر۵۸۸۰۰ ا: L-244 ے ۲۱۵۰۰:

۵۵٬۲۵٬۹۸۲۰٬۲۵۰ ۵۵۰ لمه

Doc 40,9U 62,49 pr

ݮ،۵۰۱۹وال کورځ،۹۲۵ مورې ۱۹۶۷ و ۱۹۶۷ موړ ۱۹۶۷ موړ

 $V_{e}P145U_{c}A49U_{e}\Gamma$ :  $44_{c}C_{e}$ 

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٧٥٩، دريم، ١٩٤٩، بري مي و م ۲۶٫۵٬۹۲۰ ع<sup>۱</sup>٬۲۶۲ ک

Derper derllar DAJLcyLc

۸۲۹٬۲۲۶ و۲۲

Δ---1)4N+β-+ 41D+L4L+ عط۵۲۶°۲۶.



# Nunavik Player

Name: Laly Keatainak

Date of birth: November 6th, 1987

Place of birth: Salluit Home community: Montreal

Favorite person: Everyone is my favorite

Favorite foods: Fresh (never frozen) seal ribs

Favorite sport: Soccer

Occupation: Administrative Assistant

Future goal: To keep up the good work

Toughest challenge: Being away from my family

Pet peeve:

Losing valuable items





# $4^5 A \Gamma^6 4^6 \sigma^5 D^5 2009 \Gamma$

| ۷۶°۶۱، ۲, ۹, ۹, ۹, ۲, ۲, ۲, ۲, ۲, ۲, ۲, ۲, ۲, ۲, ۲, ۲, ۲,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1-200 °L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | $\Lambda$ P is $\Lambda^{c}$ $\Lambda^{c}$ $\Lambda^{c}$ $\Lambda^{c}$ $\Lambda^{c}$ $\Lambda^{c}$ $\Lambda^{c}$ $\Lambda^{c}$ $\Lambda^{c}$ |
| <^%loc 7°J%loc CP6%l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 17.3 Γ΄C (Ϸኖኖ≟"ጵ° Δ∩μ∩J°<br>Cዮσኘቴኘሪσ 56.9σቴ)                                                                                                 |
| $4^5\Lambda4^{\circ}\Gamma$ C $4\sigma$ JJ $\sigma$ $\Gamma$ $^{\circ}$ ( $4\Lambda^{\circ}$ UC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.7 Γ΄Uʿ Þ°ኖ≟΅╆ʿ (18.6<br>Δ∩1ʿ)                                                                                                              |
| ያስ ተመደመ የ የ ተመደመ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.2 Γ΄Uʿ (Þ°ኖڅ-څ- 33.6<br>ΔΩ٦٠)                                                                                                             |
| ۲۰۶۹ کا ۱۳۵۱ کی در ۱۳۵۱ کا ۱۳۵۸ کا ۱۳۵۱ کا ۱۳۵ کا ۱۳۵۱ کا ۱۳۵ کا ۱۳ کا ۱۳۵ کا ۱۳ | 3.48 Γ΄Cσʰ (Þ°ኖغــُـــٔ÷٬ 11.5σʰ<br>Δ∩ل-ٔσʰ)                                                                                                 |
| $D_c L_\rho \Gamma C \nabla_c L_\rho \Gamma$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20-30                                                                                                                                        |
| Γ <sub>c</sub> C <sub>o</sub> ρC ∇ <sub>c</sub> 4e oρ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 ለ˚በΓĊʰ (ኦኖኖኌዮጵ° 0.8<br>Δ°ለጎ)                                                                                                               |

| ۵-۵-۵ کال                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                         |
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| 10 € 6 € 6 € 6 € 6 € 6 € 6 € 6 € 6 € 6 €                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>4</b> % <b>J</b> ∩                                                                                                                                   |
| <^%local rolls and controls and control controls and control controls and control controls and control control controls and controls a | 1.55 Γ΄C (ኦ°ኖኌዮጵ° ΔΛιΛͿ°<br>Cዮσˤϧዮνσ 5σ°)                                                                                                               |
| \`\^\°C \&\J&C\ (<\\%\C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 51                                                                                                                                                      |
| ያስታ የያት ተር ነር                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.3 أ∪ (◊९९ ث- 3.5 ∆ ١٦٠)                                                                                                                               |
| ۲۰۶۱ کی د د د د د د د د د د د د د د د د د د                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ₹ <sup>5</sup> 6 <sup>6</sup> 6 |
| $D_c \gamma_\rho \Gamma C \nabla_c 4\Phi_\rho \Gamma$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.2ج ` 2.4ء ` ۲ ^ ^ أ ( ۵۰ ( ۵۰ ) څ خ ` 0.9 ( ۵۰ )                                                                                                      |
| ᢧ <sup>ᡪ</sup> ᡆ᠋ᢪᠳᠲ᠋                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 65.8 اعطهٔ (۵۴۵ء څخ <sup>۲</sup> 146<br>۱۹۵۹ څخ                                                                                                         |





### ישי של מימי מילטוני באר סיר מיכס השל של ישי של היים ולילטוני באר מיכס השל של ישי של היים ולילטוני באר היים ולילטוני באולטוני באר היים ולילטוני באולטוני באו

 $\dot{C}^{b}dd \quad 4^{c}CD + A \sigma^{c}\Gamma^{b} \quad 4^{c}CL + CLU + CLU$ 

### **ΡΡΝΓ 4'&' Δ%Γ'5&Γἐ%Γ'**

 $\Delta L^{1} \Lambda^{\circ} \Gamma^{\circ} - \Gamma D^{\circ}$ :  $C + D + \frac{1}{4} \Lambda \Gamma - \frac{1}{4} \Gamma C^{-1}$   $= \frac{1}{4} \Gamma - \frac{1}{4} \Gamma C^{-1}$  $\Delta$ L $^{i}$ Λ $^{b}$ L $^{c}$ ,  $C^{-}$ 2 $^{i}$ 2 $^{i}$ 1 $^{i}$ 2 $^{i}$ 2 $^{i}$ 3 $^{i}$ 4 $^{i}$ 4 $^{i}$ 2 $^{i}$ 3 $^{i}$ 4 $^{i}$ 4 $^{i}$ 7 $^{i}$ 3 $^{i}$ 4 $^{i}$ 7 $^{i}$ 6 $^{i}$ 7 $^{i}$ 8 $^{i}$ 7 $^{i}$ 8 $^{i}$ 9 $^$  $\Delta$ L $^{1}$ Λ $^{6}$ L $^{6}$   $\Delta$  $^{1}$ Δ $^{1}$ ΔΛΥΓσΥΓΥΡὸ̈́° د ٔ د ۱۹۶۰ د ۲۸۶ ۲۸۶  ${\sf 4}{\sf D}{\sf N}{\sf P}{\sf C}$  ጋየተቀላነርኦታበ  ${\sf C}{\sf P}{\sf C}{\sf N}{\sf P}{\sf L}$ ነርኦ L ${\sf C}{\sf C}{\sf C}{\sf P}{\sf C}{\sf A}{\sf C}{\sf N}{\sf L}$  $\zeta_{\rho} q \sigma_{\rho} \rho_{C} \nabla \Gamma_{\ell} \nabla \Phi_{C} \nabla \Lambda_{\Gamma} \Gamma_{C} \nabla \Lambda_{\ell} \rho_{C} \nabla \Lambda_{\ell} \Gamma_{C} \nabla \Gamma_{\ell} \rho_{C} \rho_{C} \nabla \Gamma_{\ell} \rho_{C} \rho_{C} \nabla \Gamma_{\ell} \rho_{C} \rho_{C$ ۷-۱۹۵۰ کرم۱۲۷ مهنمی کرم۲۷۵ کری در ۱۹۵۰ کرم۱۲۸ مرباد ۳  $^{6}L\sigma ^{2}U\sigma ^{1}U\sigma ^{2}U\sigma ^{3}U\sigma ^{4}U\sigma ^{5}U\sigma ^{5}U\sigma$ ۵۱۵ کا ۱۵ کا در می کا ۱۵  $^{\circ}$  ۵<sup>۱</sup> ما $^{\circ}$  ۵۱<sup>۱</sup> ما $^{\circ}$  ۵۱<sup>۱</sup> ما $^{\circ}$  ۵۱<sup>۱</sup> ما $^{\circ}$ ۵۲۲ مادکی کارد و ۱۵۲۸ کو ۱۹۲۸ کو ۱۲۸ کو ۱۹۲۸ کو ۱۲۸ کو ۱۹۲۸ کو ۱۹۲۸ کو ۱۹۲۸ کو ۱۹۲۸ کو ۱۹۲۸ کو ۱۲۸ کو ۱۲ کو ۱۲۸ کو ۱۲۸ کو ۱۲۸ کو ای م٬غاه ۱۲۲۵ ع ۵٬۵۱۵ م و ۱۲۹۵ م و ۱۲۹۵ م و ۱۲۹۵ م د۱۲۵۲ د ۱۹۵۲ د ۱۹۷۲ د ۱۹  $C4 + D C - 1 + D A^{2} = C \cdot \cdot \cdot$ 







### **Bowhead Whale Harvest 2009**

ere we provide some details about the whale that was harvested between August 20<sup>th</sup> and August 25<sup>th</sup>, 2009 near Kangiqsujuaq. Also included are answers to some questions that were asked during the harvest.

| General facts                                 |                                                   |
|-----------------------------------------------|---------------------------------------------------|
| Gender                                        | Adult female with a fetus                         |
| Total length                                  | 17.3 metres (or 56.9 feet)                        |
| Width of flukes (tail)                        | 5.7 metres or (18.6 feet)                         |
| Circumference of the whale under the flippers | 10.2 metres (or 33.6 feet)                        |
| Length of the longest baleens                 | 3.48 metres (or 11.5 feet)                        |
| Blubber thickness                             | 20 to 33 centimetres (or 7.9 inches to 13 inches) |
| Skin thickness                                | 2 centimetres (or 0.8 inches)                     |

| Fetus                                         |                                      |
|-----------------------------------------------|--------------------------------------|
| Gender                                        | Male                                 |
| Total length                                  | 1,55 metres (or 5 feet)              |
| Width of flukes (tail)                        | 51 centimetres (or 1.7 feet)         |
| Circumference of the whale under the flippers | 1.03 metres (or 3.5 feet)            |
| Length of the longest baleens                 | No baleens                           |
| Blubber thickness                             | 2.2 to 2.4 centimetres (or 0.9 feet) |
| Weight                                        | 65.8 kilograms (or 146 pounds)       |

σጐቦ'ይበሶና ላጐታጋላቦ"ታኑ, ኦժላ ላ፟ህፈረናስና ቴጐቦ'ለፈላቦና በቦሬ ኦዲና ላኦህረ 27ቦ Δንትልነቦኦና ላናልልማናቦ Lናርጋናናኣዮሮታኑ በቦኦናትረበት. ላቦረታ ቃልልኦና ቃልፈትዮት ለተፈና ላናልቃላንታት ፊቴዲናጋረላፋ ኃሬራትዮና ፌժናቢር ላናልቃላናታት ለናረላርኦኒሲናረታ ለፈረናርኦታ የነው አ Sharing the harvest, these hunters arrived from Kangiqsujuaq on August 27th with muttaq for Ivujivik. It was thanks to the participation from all Nunavik communities that the project was managed effectively.





ላናልታላቴክበየልታና ላናትታዩንርፆቴበስናጋና ⊅ፊልትΓ ላናኖጋና ∇ናለኦበጐሁታት ላናኖሬፆናለበት የጐЈ፭ጐJቴበስና ኦኌጎጋና ላታJጎተLታናበጔቦና የተላታ ለኦተኦቴናርታናቴΓኦታና የተተ

The crew posed for a group photo following the success of Nunavik's second bowhead whale hunt in several generations.

#### Aging the bowhead

At the time of writing, biologists at the Nunavik Research Centre do not know the age of the bowhead but have collected the eyes for analyses to determine age. We know that bowhead whales reach their sexual maturity at 25 years old. At that age, females should be about 13 to 13.5 metres long, whereas males are normally 12 to 13 metres long. Incidentally there has been some ivory and stone harpoon heads found in whales that were dated to be over 100 years old.

We can assume that the fetus was about two to four month's gestation (the time bowhead whales keep their baby in their uterus). This speculation is based on the fact that the gestation period lasts from 12 to 16 months starting from late winter or early spring. Bowheads give birth to their calves between April and June. Calves measure 4 to 4.5 metres at birth. This fetus was only 1.5 metres long and had no baleens; therefore it was not fully developed.

### **Bowhead winter migration**

There are three populations of bowhead whales in Canadian Arctic waters: Hudson Bay-Foxe Basin, Davis Strait-Baffin Bay and the Bering-Chukchi-Beaufort populations. The bowhead

whales harvested in Nunavik are assumed to come

from the Hudson Bay-Foxe Basin population. We will only know after DNA analyses are completed. Bowhead whales of this population come together in summer in northwestern Hudson Bay, especially in the Repulse Bay, Frozen Strait, Foxe Basin and Igloolik areas. Smaller groups also gather around Mansel and Ottawa Islands. Some animals migrate to northeastern Hudson Bay and Hudson Strait for the winter. As the population grows,

the whales disperse into other areas that have not seen populations in many years, which might explain the small numbers that are found in the Hudson Strait in the summer and fall seasons.



DAMIE KALINGO

### $PUUCD4.P_1U^2I$ $\nabla P4.2.$



# **Helping With the Wedding**

imuti was the ring bearer and his sister Arnaara was the flower girl at their parents' wedding on September 19th in Kuujjuaq.



Timuti is six years old and in grade one and Arnaara is two years old and she goes to the childcare centre in the daytime. Their mom is Kitty Angnatuk and dad is Larry Shea. A lot of their relations and friends came to the wedding and it was a very special day for everyone in the family.



