

May 10th, 2011

Honourable Peter Kent Minister of the Environment Government of Canada Honourable Dan Shewchuk Minister of Environment Government of Nunavut Honourable Ross Wideman Minister of Environment Newfoundland & Labrador

Cathy Towtongie President of Nunavut Tunngavik Incorporated

Pita Aatami President of Makivik Corporation Carl McLean
Deputy Minister
Nunatsiavut Government

James Qillaq Chairperson of the Qikiqtaaluk Wildlife Board Johnny Oovaut Chairperson of the Nunavik Marine Regional Wildlife Board Bruce Roberts
Chairperson of the Torngat
Wildlife and Plants
Co-management Board

Mikidjuk Kolola Chairperson of the Mayukalik HTO Joshua Kango Chairperson of the Amaruq HTO Peterosie Qappik Chairperson of the Pangnirtung HTO

Elder representatives from Kimmirut, Iqaluit, and Pangnirtung Gerald Butts President/CEO World Wildlife Fund

Re: Submission of Revised Request for Decision from the Government of Nunavut-Department of Environment Pertaining to Proposed Modifications to the Current Total Allowable Harvest for the Davis Strait Polar Bear Subpopulation

Dear Colleagues:

As you are aware from previous correspondence and an April 1st 2011 public notice, the Nunavut Wildlife Management Board (NWMB or Board) has scheduled a public hearing for May 16th and 17th 2011, to consider proposed modifications to the current Total Allowable Harvest (TAH) for the Davis Strait Polar Bear Subpopulation in the Nunavut Settlement Area. The hearing process was initiated by an earlier Request for Decision (RFD) from the Government of Nunavut's Department of Environment (DOE). Upon the NWMB announcement of the hearing on April 1st, that RFD was made publicly available by the Board. May 9th 2011 was the final deadline for the delivery of written submissions and

supporting documentation in response to the RFD, or otherwise regarding conservation concerns with the TAH for the Davis Strait Polar Bear Subpopulation.

Also on May 9th, the NWMB received a request from DOE to submit a revised RFD. That request indicated that DOE wishes to correct an error in the original RFD submitted to the NWMB. The request specified that the revised RFD removes a 10 year population projection that was based on a draft of the scientific report, and not the final report as submitted. The request further indicated that "... The changes do not change our recommendation."

All parties can appreciate that the delivery of written materials to a public hearing within a particular time frame is an important requirement of the NWMB hearing process. Although it is clearly necessary from an administrative perspective – facilitating as it does the Board's efforts at running a timely and efficient hearing – the primary value of meeting filing deadlines (both for RFDs and submissions) is to ensure fairness to all parties.

Therefore, in order to meet the highest standards of procedural and substantive fairness in this hearing, the NWMB is of the view that other parties require an opportunity to consider whether the proposed late filing of the revised RFD is unfair to them, to be able to raise any objections, and – if there are objections - to set out recommended measures to fairly address any resulting prejudice to them.

Accordingly, the NWMB has decided to proceed as follows: Accompanying this letter are copies of (i) the DOE correspondence requesting to submit a revised RFD, (ii) the revised RFD in track change mode (showing all proposed changes), and (iii) a clean copy of the revised RFD (with all changes accepted). Only if you have an objection to the late filing of the revised RFD, the Board requests the following:

- 1. You inform the NWMB by no later than 5:00 p.m. (Eastern Daylight Time) on May 13th 2011, either orally or in writing that you have an objection; and
- 2. You be prepared to set out your objection with supporting reasons and recommended measures to fairly address any resulting prejudice to you, on the morning of the first day of the oral public hearing (May 16th 2011).

The Board will take into account that the short timeline it has necessarily provided may require a party to submit a less detailed response than it would otherwise have done.

The NWMB will set aside a reasonable amount of time at the commencement of the hearing to receive the views of any party wishing to speak to the matter. The Board will then make a decision on how to fairly proceed.

If you require further information, please do not hesitate to visit the NWMB's public hearing site (http://www.nwmb.com/english/meetings/march2011.php), or to contact the Board directly. Please also note that all written hearing submissions will be posted on the hearing site by the end of the business day on May 10th 2011.

Yours sincerely,

Mikidjuk Akavak, Chairperson of the

NunavutWildlife Management Board

Enclosures (3)

c.c. Gabriel Nirlungayuk, Director of Wildlife, Nunavut Tunngavik Inc.;
Bert Dean, Senior Policy Advisor, Nunavut Tunngavik Inc.;
Jason Mikki, Qikiqtaaluk Regional Coordinator, Qikiqtaaluk Wildlife Board;
Simon Awa, DeputyMinister, Nunavut Department of Environment;
Chris Hotson, A/Director of Wildlife Management, Nunavut Department of Environment;

Basile van Havre, Director-Population Conservation and Management, Canadian Wildlife Service, Environment Canada

Rachel Vallender, Scientific Advisor, Canadian Wildlife Service, Environment Canada;

Siu-Ling Han, Head of Eastern Arctic, Environment Canada, Canadian Wildlife Service;

Mark O'Connor, Director of Wildlife, Nunavik Marine Region Wildlife Board; Rebecca Willcott, Director of Renewable Resources, Nunatsiavut Government; John Blake, Director-Wildlife Division, Government of Newfoundland & Labrador Rehaume Courtois, Chef du service de la biodiversite et des maladies de la faune, Government du Quebec;

Jamie Snook, Executive Director, Torngat Secretariat; and Stas Oplinski, Science and Policy Advisor, Makivik Corporation.



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Avatiliqiyikkut

Department of Environment

Ministère de l'Environnement

May 9, 2011

Mikidjuk Akavak Chief Executive Officer Nunavut Wildlife Management Board PO Box1379 Iqaluit, NU X0A 0H0

Re: request to amend briefing note for DS polar bear public Hearing

Dear Miki,

Please find attached a revised briefing note for consideration at the upcoming Public Hearing on Davis Strait Polar Bear Total Allowable Harvest.

An error on the original Briefing Note was noticed and we wish to amend the briefing note to correct the error. The changes do not change our recommendation. It does remove a 10 year population projection that was based on a draft of the report, not the final report as submitted. This will bring the briefing note in line with what is in the final report.

I trust that the board will consider this request despite its lateness.

Sincerely,

Chris Hotson

A/Director of Wildlife

Department of Environment

Government of Nunavut

SUBMISSION TO THE

NUNAVUT WILDLIFE MANAGEMENT BOARD

FOR

Information:

Decision: X

Issue: Davis Strait Polar Bear Total Allowable Harvest and Domestic Interjurisdictional Management.

Background:

Within Canada, the Davis Strait (DS) Polar Bear Population is shared by Nunavut, Quebec and Labrador. This population is also opportunistically harvested by residents of Greenland, although historical harvest levels have been low.1

The population was first inventoried in the 1970s (1974-79) by a mark-recapture study conducted during the spring-time. This study did not cover the entire area which is now defined as "Davis Strait" and likely underestimated the population size at approximately 900.

Based on the population estimate derived from the 1970s study, jurisdictions around DS attempted to managed harvesting around a combined maximum of 57 bears annually; informally acknowledging harvest levels in each jurisdiction as follows: Nunavut 34 Quebec 15, Nunatsiavit 6, and Greenland 2.2

In 1992 and 1993 surveys found larger densities of bears as well as older bears. Satellite tracking information fromin 1991 to-94 also indicated large numbers of bears offshore in pack ice. This was also confirmed by Traditional Knowledge. Subsequently, through population modeling it was estimated that the population needed to be at least 1400 to sustain a harvest of 57 animals. The population estimate, as reported by the Government of the NWT, was increased in 1995 to 1400 to sustain a harvest of 57 (3.94.1%).3

During the Nunavut MOU consultations in 2005, Inuit indicated that the DS population had increased and, based on Inuit Knowledge, the NWMB and GN supported an increase in the Nunavut TAH from 34 to 46. This raised the total combined harvest from 55 to 65.

¹ Current 5-year mean of 2 bears annually

² Harvest levels in Nunavut and Nunatsiavit are regulated as a TAH and quota respectively. Harvest in other jurisdictions is not regulated.

This revised estimate was also supported by the Canadian Polar Bear Technical Committee

The population was identified as the highest priority for research, and the GN initiated a population inventory mark-recapture study (2005-2007). The results indicated that the population significantly increased from the estimated 900 bears in the 1970s. Specifically, the results indicated that, as of October 2007. the new population estimate was 2158 bears with a 95% confidence interval of 1833978 - 2542338. Population growth rate before accounting for harvest was estimated at 3.7%. The current total combined harvest from DS of approximately 67⁴ bears annually represents about 3.1% of the 2007 population estimate. At this level of harvest, the population would remain stable if it is assumed that productivity (i.e., reproduction and survival) remains unchanged in future5. However, results findings from the study provide evidence suggest that DS is currently experiencing a decline in productivity that is predicted to lead to a result in a population decline in the abundance of bears in future⁶. This reduced productivity may, in part, be attributable to the effects of high bear densities⁷ which came about during a period of population growth from the 1970s to the present. In addition, an observed long-term negative trend in sea-ice (i.e., longer open water periods) which may be the result of climate change has raised concerns that polar bear habitat and access to prey (i.e., seals) are undergoing long-term declines that will affect the status of this population.

Inuit have identified that large numbers of bears create public safety concerns; especially for people going out on the land, and that the bears are having negative impacts on other wildlife; for example by by killingconsuming large numbers of youngbaby seals and damaging nestingeating bird eggs in bird colonies.

Current Status

So far, Canadian jurisdictions around DS have taken a coordinated approach in responding to the findings of the recent population study. A User-to-User workshop was held in Kuujjuaq, Quebec from 13 to 16 September, 2010. The purpose of the workshop was to review study results alongside local knowledge/IQ and to discuss future harvest management. In brief, the outcome of the workshop was as follows:

 The Nunatsiavut Government requested that their TAH be increased from 6 to 12 bears. All parties present at the workshop supported this request recognizing the relatively small size of Nunatsiavut's existing quota relative to the proportion of DS bears using land and sea-ice in, or adjacent to, this jurisdiction.

⁴ Based on 5-year average

⁶ Body condition and size is also declining

⁵ Given observed trends in sea-ice and the condition and reproductive performance of bears in DS, this assumption is unlikely to remain valid for an extended period.

⁷ Densities of bears in DS are amongst the highest recorded in a polar bear population.

- t<u>T</u>he Newfoundland Government indicated they did not support an increase in harvesting levels in DS; instead, they want to see the existing allowable harvest reallocated amongst jurisdictions such that a portion of Nunavut's TAH is reallocated to NL.
- Under the James Bay Agreement, Quebec has a guaranteed minimum harvest of up to 60 bears from the DS, Foxe Basin and Southern Hudson Bay sub-populations combined. There is no specified or regulated harvest for DS. Consequently, it was determined that there is presently no means to reallocate harvesting between Quebec and other jurisdictions.
- A motion was passed by user groups represented at the workshop to eliminate the TAH in Nunavut completely for a set period of time, and permit unlimited harvesting.

Recommendations:

Having evaluated the scientific evidence and available traditional knowledge as well as taking into account the outcome of the Kujuuaq workshop, the GN recommends a management objective for DS of modest population reduction in the medium term (5-10 years). Recognizing the current status of the population and the potential for future decline, the primary cause of which is unrelated to harvest (but to which harvest will contribute), Tthis management objective also takes into account;

- (a) The current abundant status of the population;
- (b) Evidence suggesting that population productivity and abundance may decrease in future as a result of processes unrelated to harvest
- (c) eConcerns over public safety and impacts on other harvest wildlife resulting from the high density of bears presently in DS; and
- (a) resulting from high bear numbers; and
- (b)
- (e)(d) Tthe need to ensure on-going hunting opportunities for communities.

A modest increase in annual harvest levels (15 bears) will contribute to achieving this objective and may address concerns about public safety and the impacts of bear over abundance on other harvested wildlife. This conservative approach also takes into account uncertainty about future changes in productivity of DS resulting from things such as climate change.

Given this management objective, The Department of Environment (DOE) recommends to the NWMB a total harvest increase of 15 bears from DS. As per discussions at the Kujuuaq workshop, DOE recommends that 9 of these 15 bears be allocated to the 3 Nunavut communities, and that the remaining 6 be

made available to Nunatsiavut, in response to their request for an increase of 6 bears.

This modest increase is expected to bring the average total annual harvest in DS to approximately 82 bears; an increase of 22%. At this level of harvest, population size would remain at or near 2007 numbers if rates of reproduction and survival remained unchanged. However, given the findings of the recent study, the assumption that these rates will remain constant in future is very unlikely to be valid. On-going density effects, changes in environmental conditions such as sea-ice (hence carrying capacity) and unreported harvest are all potential factors, not taken into account in population projections, that are likely to influence rates of reproduction and survival in future. Although the impact of these limiting factors cannot be accurately quantified or reliably modeled, they are most likely to exert a downward influence on population size and productivity.

In recommending an increase in harvest level, it is assumed therefore that harvest combined with other limiting factors will act to decrease the abundance of the DS population in accordance with the management objective. However, since the combined effect of these factors on population size cannot be accurately predicted, a modest increase in harvest level is recommended that on its own would have relatively little effect on population status in the medium term.

If the total combined harvest is increased by 15 bears from 67 to 82 annually, it is projected that the DS population would decline to approximately 1900 bears in 10 years, if productivity remains constant. Recognizing that there is esignificant uncertainty surrounding future changes in the status of this population, the risk associated with this prediction⁸, the proposed increase in harvest must be mitigated accompanied by a commitment to for more frequent monitoring. DoE, therefore recommends that a follow-up study, which cost effectively capitalizes on the high proportion of marked bears still present in DS, be conducted within 710 years after the increase to estimate population size and status and reassess harvest levels. If a study cannot be done after 7 years, it is recommended that the TAH revert back to the 2010/11 levels in-order to manage risk of over harvest and exercise the precautionary principle inherent within the NLCA.

This combination of a modest increase in harvest levels and a commitment to future monitoring represents a reasonable application of the precautionary principle.

⁸ If demographic changes and environmental trends revealed during the recent population study continue, this projection probably underestimates rate of population decline.

Nunavut

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In 1992 and 1993 surveys found larger densities of bears as well as older bears. Satellite tracking information from 1991 to94 also indicated large numbers of bears offshore in pack ice. This was also confirmed by Traditional Knowledge. Subsequently, through population modeling it was estimated that the population needed to be at least **1400** to sustain a harvest of 57 animals. The population estimate, as reported by the Government of the NWT, was increased in 1995 to **1400** to sustain a harvest of 57 (4.1%).³

During the Nunavut MOU consultations in 2005, Inuit indicated that the DS population had increased and, based on Inuit Knowledge, the NWMB and GN supported an increase in the Nunavut TAH from 34 to 46. This raised the total combined harvest from 55 to 65.

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Recommendations:

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- (c) Concerns over public safety and impacts on other harvest wildlife resulting from the high density of bears presently in DS; and
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Recognizing that there is significant uncertainty surrounding future changes in the status of this population, the risk associated with the proposed increase in harvest must be mitigated by a commitment to monitoring. DoE, therefore recommends that a follow-up study, which cost effectively capitalizes on the high proportion of marked bears still present in DS, be conducted within 10 years after the increase to estimate population size and status and reassess harvest levels. If a study cannot be done, it is recommended that the TAH revert back to the 2010/11 levels in-order to manage risk of over harvest and exercise the precautionary principle inherent within the NLCA.

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