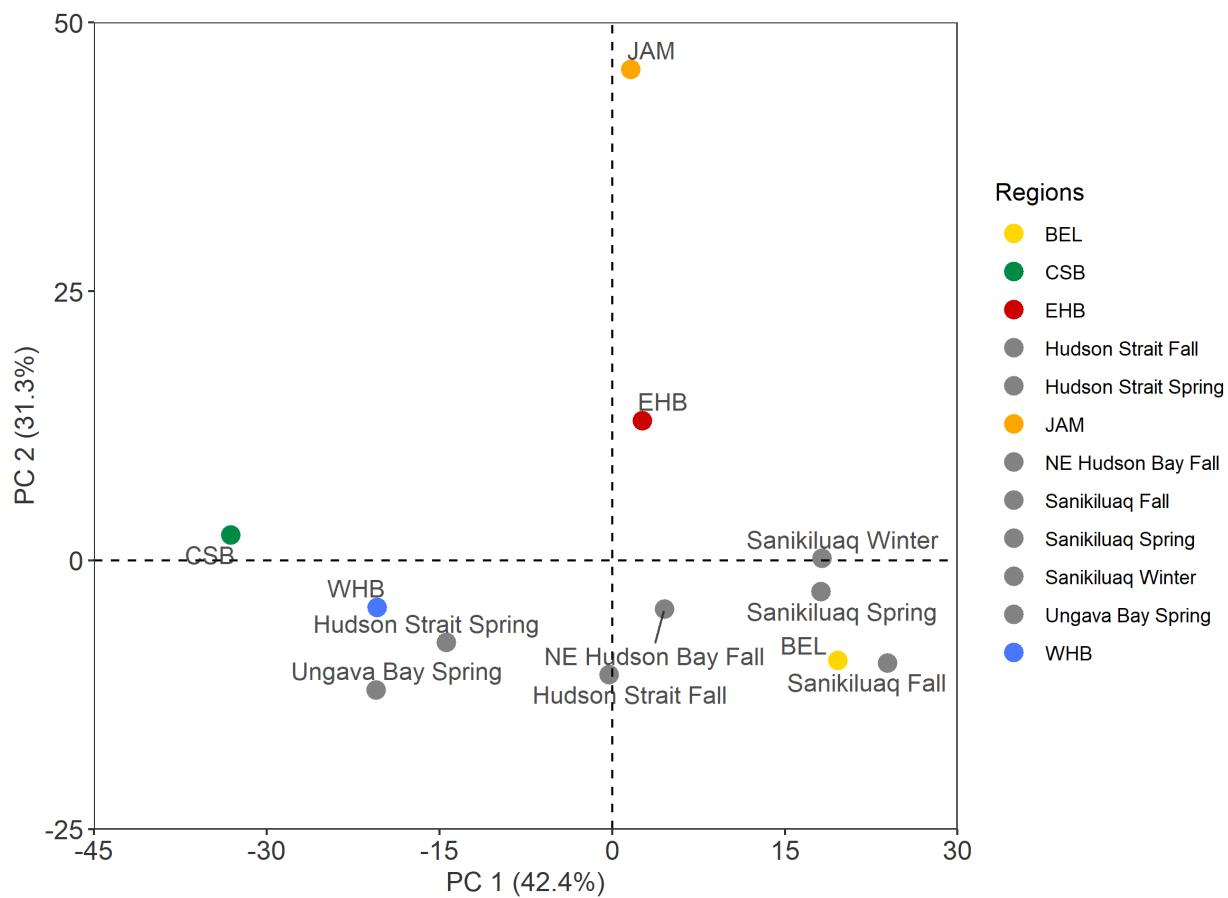


2. የዚሁን ስም ሰነድ በኋላ ተከተል ይፈጸመ ይገልጻል (የሱስ ቀን ስም ውስጥ የሚችል ተከተል ይፈጸመ) የዚሁን ስም ሰነድ እንደሆነ የዚሁን ስም ውስጥ ተከተል ይፈጸመ ይገልጻል (የቅርቡን የሚችል ተከተል ይፈጸመ) የዚሁን ስም ሰነድ እንደሆነ የዚሁን ስም ውስጥ ተከተል ይፈጸመ (ማሙ የሚችል ተከተል ይፈጸመ) የዚሁን ስም ሰነድ የዚሁን ስም ውስጥ ተከተል ይፈጸመ (ማሙ የሚችል ተከተል ይፈጸመ). የዚሁን ስም ሰነድ እንደሆነ የዚሁን ስም ውስጥ ተከተል ይፈጸመ (ማሙ የሚችል ተከተል ይፈጸመ) የዚሁን ስም ሰነድ እንደሆነ የዚሁን ስም ውስጥ ተከተል ይፈጸመ (ማሙ የሚችል ተከተል ይፈጸመ). የዚሁን ስም ሰነድ እንደሆነ የዚሁን ስም ውስጥ ተከተል ይፈጸመ (ማሙ የሚችል ተከተል ይፈጸመ). የዚሁን ስም ሰነድ እንደሆነ የዚሁን ስም ውስጥ ተከተል ይፈጸመ (ማሙ የሚችል ተከተል ይፈጸመ).

የጥቅምት ስም ሰነድ የገዢ ስም

አድራሻ መካከል እና ደንብ

አድራሻ መካከል እና ደንብ በኋላ ተከተል ይፈጸመ ይገልጻል (mtDNA) ማዘመንት (615 nucleotides). ተቀባዩን ገዢ ቃል ተከተል ይፈጸመ (234 nucleotides). የመዘገበ ምክንያት እና የዚሁን ስም ሰነድ እንደሆነ የዚሁን ስም ውስጥ ተከተል ይፈጸመ (JAM) የሚችል ተከተል ይፈጸመ (CSB) የሚችል ተከተል ይፈጸመ (BEL) የሚችል ተከተል ይፈጸመ (የግዢ ስም 3).



3. 2016 PCA (615 nucleotides) of WHB, JAM, EHB, BEL, CSB, Hudson Strait Fall, Hudson Strait Spring, NE Hudson Bay Fall, Sanikiluaq Fall, Sanikiluaq Spring, Sanikiluaq Winter, Ungava Bay Spring, and WHB. The first two principal components (PC 1 and PC 2) explain 42.4% and 31.3% of the variance respectively. The samples are clustered by region, with JAM and BEL being the most distinct.

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Harvest advice for eastern Hudson Bay
and James Bay beluga

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PI₁/8/2021 2. $\Delta\sigma_{12} = \sigma_{12} - \sigma_{11}$ where $\sigma_{11} = \sqrt{\frac{N_1}{N_2}(\bar{x}_{11}^2 - \bar{x}_{12}^2)}$. $\sigma_{12} = \sqrt{\frac{N_2}{N_1}(\bar{x}_{12}^2 - \bar{x}_{11}^2)}$. Ns: Number of successful harvests; Nv: Number of harvested animals. P: Probability of success at 95% CI: 95% confidence interval; ND: Not determined. C1: Estimated number of belugas harvested between 1994 and 2021.

Harvested by species	Ns/Nv	$\Delta\sigma_{12}$ (%)	
		P	95% CI
1	6/6	ND	-
2+	577/230	12.4	7.9-17.7
3+	223/114	11.0	5.6-18.0
4+	18/14	13.7	0.0-57.4
5+8+	26/7	ND	-
6+10+	223/104	47.3	34.7-60.1
7+11+	263/91	45.1	33.0-57.6
8+11+			
10	167/62	51.5	39.0-63.9
11-20	96/29	33.9	13.9-57.6
21-30	49/13	10.4	0.9-29.5

Estimated catches by species

VCdLGr 9. The estimated catches of beluga in the eastern Hudson Bay and James Bay region in 2021 were 4,726 animals. The harvest area is located at 81°W of longitude, approximately 60 km east of the town of Port au Port. The estimated catches for the eastern Hudson Bay and James Bay region were 4,726 animals, which is 33.9% higher than the catch in 2020. The catch in 2021 was 1,428 animals higher than the catch in 2020. The estimated catches for the eastern Hudson Bay and James Bay region in 2021 were 4,726 animals, which is 33.9% higher than the catch in 2020. The estimated catches for the eastern Hudson Bay and James Bay region in 2021 were 4,726 animals, which is 33.9% higher than the catch in 2020. The estimated catches for the eastern Hudson Bay and James Bay region in 2021 were 4,726 animals, which is 33.9% higher than the catch in 2020. The estimated catches for the eastern Hudson Bay and James Bay region in 2021 were 4,726 animals, which is 33.9% higher than the catch in 2020.

PI/CDL/2021 3. The estimated catches of beluga in the western Hudson Bay and James Bay region in 2021 were 1,428 animals. The estimated catches for the eastern Hudson Bay and James Bay region in 2021 were 4,726 animals, which is 33.9% higher than the catch in 2020. The estimated catches for the eastern Hudson Bay and James Bay region in 2021 were 4,726 animals, which is 33.9% higher than the catch in 2020. The estimated catches for the eastern Hudson Bay and James Bay region in 2021 were 4,726 animals, which is 33.9% higher than the catch in 2020.

$\Delta\sigma_{12}$	Whale harvest	JAM	UNG
$\Delta\sigma_{12}$ (SE)	$\Delta\sigma_{12}$ (SE)	$\Delta\sigma_{12}$ (SE)	$\Delta\sigma_{12}$ (SE)
1985	6,967 (3,240)	-	6,477 (2,727)
1987	-	31,124 (6967)	-
1993	4,061 (1,961)	-	12,497 (4,549)

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Harvest advice for eastern Hudson Bay and James Bay beluga

Year	Estimated Population (SE)	W.H.B. (SE) ¹	J.A.M.	U.N.G.
2001	4,430 (2,428)	-	27,373 (10,046)	*
2004	7,153 (3,276)	51,761 (15,875)	13,226 (5,383)	-
2008	4,164 (2,265)	-	38,191 (27,307)	*
2011	5,060 (2,879)	-	24,085 (9,851)	-
2015	8,205 (4,053)	54,473 (5,329)	23,036 (7,602)	-
2021	2,315 (734)	-	16,349 (4,332)	-
-	-	-	-	<100

¹ Population estimate for 2015.

* Population estimates for 2001-2008 were derived by extrapolating the 1990-2000 growth rate back to 2001. The growth rate was assumed to remain constant at 100% over the entire period.

The estimated population in 2001 was 4,430. The estimated population in 2008 was 4,164. The estimated population in 2011 was 5,060. The estimated population in 2015 was 8,205. The estimated population in 2021 was 2,315.

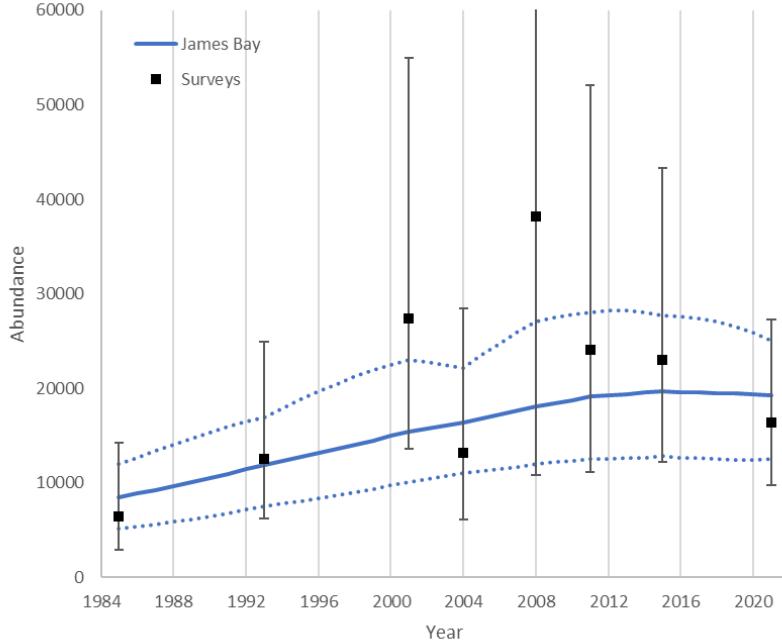
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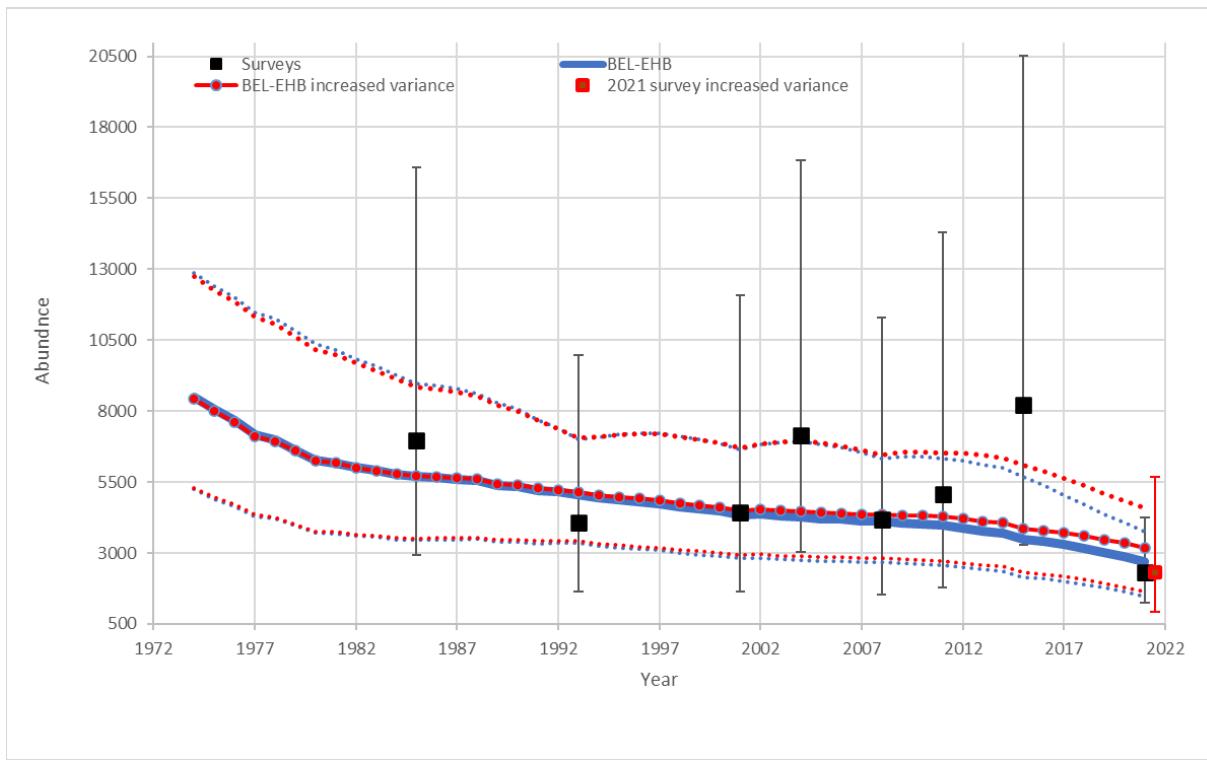
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1972-2022 年間の調査によるアベレージと BEL-EHB による推定値と BEL-EHB の標準偏差を示す。 BEL-EHB の標準偏差は、2021年の調査結果を除く他の年では、約 3,000-4,000 で一定であるが、2021年の調査結果では約 2,500 である。 BEL-EHB の標準偏差は、2021年の調査結果を除く他の年では、約 3,000-4,000 で一定であるが、2021年の調査結果では約 2,500 である。

4. 渔獲アドバイス

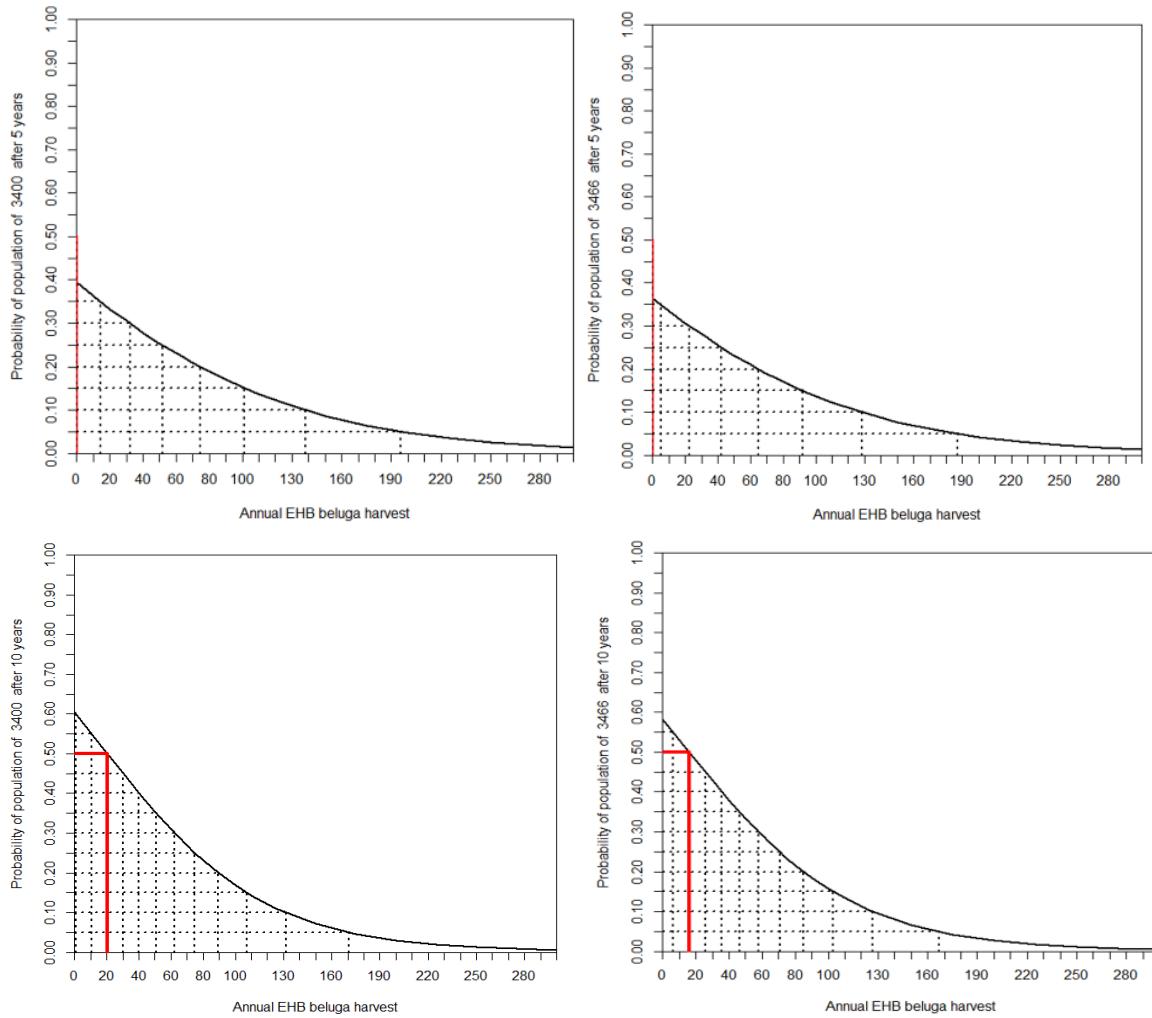
2021年の漁獲アドバイスは、2021年7月1日から2022年6月30日までの期間に適用される。 渔獲アドバイスの対象は、2021年7月1日から2022年6月30日までの期間に適用される。 渔獲アドバイスの対象は、2021年7月1日から2022年6月30日までの期間に適用される。

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Harvest advice for eastern Hudson Bay and James Bay beluga

3,400 after 5 years. The probability of population remaining at 3,400 after 5 years is 0.30. As harvest increases, the probability of population remaining at 3,400 decreases. At a harvest of 100, the probability is 0.10. At a harvest of 180, the probability is 0.02. At a harvest of 280, the probability is 0.00.



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3,400 after 10 years. The probability of population remaining at 3,400 after 10 years is 0.50. As harvest increases, the probability of population remaining at 3,400 decreases. At a harvest of 100, the probability is 0.10. At a harvest of 180, the probability is 0.02. At a harvest of 280, the probability is 0.00.

3,466 after 5 years. The probability of population remaining at 3,466 after 5 years is 0.35. As harvest increases, the probability of population remaining at 3,466 decreases. At a harvest of 100, the probability is 0.15. At a harvest of 180, the probability is 0.03. At a harvest of 280, the probability is 0.00.

3,466 after 10 years. The probability of population remaining at 3,466 after 10 years is 0.55. As harvest increases, the probability of population remaining at 3,466 decreases. At a harvest of 100, the probability is 0.20. At a harvest of 180, the probability is 0.04. At a harvest of 280, the probability is 0.00.

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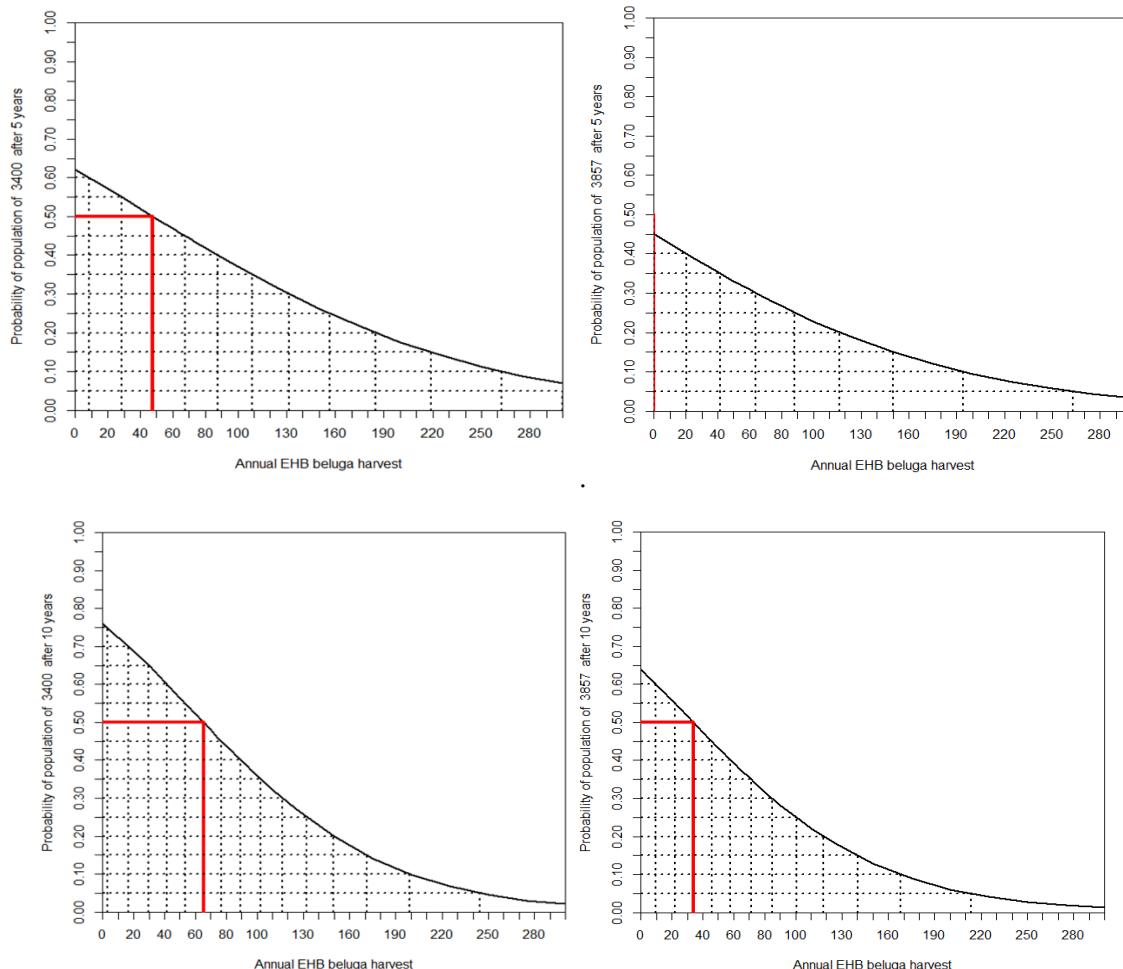
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Harvest advice for eastern Hudson Bay and James Bay beluga

Cr>7<4> ><σ~<C 9<2>~<~σ~< ><σ~<C>~<~σ~< 3,400σ~< b<2>~<~U<~σ~<,
 <σ~<C><C> 34 ><σ~<C>~<~σ~< Δ<~<C>~<~σ~< 3,900σ~< (P>C>L>N 7).
 <C>~<~σ~< ~<~σ~<C><C>~<~σ~< 5 ><σ~<C 5 ><σ~< ~<~σ~< Δ<~<~J>
 Δ<~L>~<J> <G>~<~J> <C>~<~U<~σ~< 0.1.



P>C>L>N 7. >Δ<~<~σ~< (y-axis) C>~<~σ~< ><σ~<C 9<2>~<~σ~< ><σ~<C 5 ><σ~< ~<~σ~< 3,400σ~<
 (Y>G>) ><σ~< ~<~σ~< C>~<~σ~< ~<~σ~< 3,900 σ~< 2015~<~J> <D>~<~σ~< ~<~σ~< <σ~<
 <σ~< ~<~σ~< ~<~σ~< C>~<~σ~< ~<~σ~< 2021~<~P>~<~σ~< ~<~σ~< 48% (C>~<~A>σ) <G>~<~J>~<~C>~<~L>
 <σ~< ~<~σ~< (Y>G>) ><σ~< ~<~σ~< 10~<~G>~<~J>~<~C>~<~(A>C>). <D>~<~C>~<~σ~< ~<~σ~< C>~<~σ~<
 P>D>N~<~C>~<~σ~< (x-axis) Δ<~<~σ~< 50% <G>~<~J>~<~C>~<~σ~< ~<~σ~< P>D>N~<~C>~<~σ~< ~<~σ~<

Λ<~G>~<~J>~<~C>~<~σ~< ~<~σ~<

2021~<~C>~<~σ~< P>C>J>~<~L>~<~C>~<~σ~< Δ<~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~<
 <C>~<~σ~< P>C>J>~<~L>~<~C>~<~σ~<. CL>~<~σ~< <C>~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~<
 Δ<~L>~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~<
 <G>~<~J>~<~C>~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~<
 bathymetry, Λ>J>~<~σ~<, Δ<~L>~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~< ~<~σ~<

ʌɑ̄jʊn̄d̄ōs̄d̄r̄t̄r̄c̄ ɛr̄r̄r̄t̄n̄ ʌC̄q̄ōs̄d̄d̄r̄c̄. ʌīs̄C̄d̄J̄ōd̄C̄d̄s̄ōJ̄ōēr̄c̄
d̄r̄p̄C̄d̄ȳL̄r̄c̄ 50% ΔP̄r̄d̄d̄Δ̄āōd̄p̄s̄ōr̄c̄ ɪ̄p̄c̄d̄ḡc̄ ʌīx̄J̄s̄ C̄c̄L̄s̄ ɪ̄d̄s̄t̄j̄s̄c̄. CL̄ā
ʌd̄r̄c̄d̄p̄L̄r̄c̄ ʌḠr̄āj̄h̄d̄ōs̄d̄d̄r̄c̄ ɪ̄p̄c̄d̄s̄c̄s̄b̄ ʌīL̄d̄ ʌĀc̄q̄ōt̄s̄ ɪ̄p̄b̄d̄c̄l̄d̄q̄ās̄t̄c̄
ʌĀc̄q̄ōt̄s̄ ʌd̄s̄c̄ ɪ̄p̄s̄d̄r̄d̄s̄ ɪ̄p̄c̄d̄ās̄ ɪ̄p̄d̄d̄ād̄r̄L̄r̄c̄
q̄m̄d̄c̄s̄ ɪ̄s̄L̄s̄, d̄r̄ēd̄z̄s̄c̄ ʌd̄ō ʌĀc̄d̄d̄r̄ūc̄. ΔP̄c̄c̄ ʌd̄b̄ōd̄q̄ōr̄j̄āt̄r̄c̄ ɪ̄q̄C̄t̄
ʌḠr̄āj̄l̄d̄s̄d̄d̄s̄ (i.e. Allee effects) CL̄ā ʌd̄r̄ār̄d̄r̄t̄r̄d̄s̄ ʌḠr̄āj̄h̄d̄s̄d̄s̄ ɪ̄s̄ār̄s̄c̄
r̄b̄q̄c̄d̄r̄t̄r̄d̄ū.

ʌn̄r̄c̄ ɛn̄r̄s̄d̄m̄c̄ Δc̄d̄r̄s̄c̄

ʌn̄s̄	ʌC̄r̄L̄ās̄
ʌ<̄t̄, d̄n̄īt̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
ʌīC̄d̄s̄, L̄	μōδ̄n̄ C̄n̄d̄r̄d̄C̄c̄n̄j̄c̄
ʌρ̄ō ʌīc̄	LGL Ltd.
ʌs̄, b̄c̄d̄ū	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
ʌd̄C̄d̄, l̄d̄t̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
ʌ>̄q̄, C̄	C̄c̄b̄r̄ ʌd̄c̄s̄d̄d̄t̄
b̄c̄, ʌīc̄ L̄n̄	μōδ̄n̄ C̄n̄d̄r̄d̄C̄c̄n̄j̄c̄
d̄n̄ōd̄c̄, ʌīc̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄ ʌC̄c̄s̄d̄J̄ād̄s̄b̄ d̄d̄c̄c̄r̄
ʌn̄ ʌq̄d̄, d̄d̄s̄c̄d̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
ʌσ̄d̄c̄-ʌq̄d̄r̄, C̄L̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
ʌt̄b̄k̄, r̄j̄n̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
ʌn̄, c̄d̄t̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
b̄j̄c̄, ɪ̄p̄j̄t̄	NWMB
b̄īc̄, ɪ̄c̄ ʌq̄c̄r̄d̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
d̄r̄, ʌd̄īc̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
ʌr̄d̄c̄, ɪ̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄
ʌq̄d̄-ʌq̄d̄	ΔL̄ās̄ōr̄ ʃ̄d̄d̄r̄

ᐊᓇᓘ	Δᓇᓘ
ᐊᓘ, ᓴᓘ	Δᒦᒦᒦᒦ
ᖅᒦᒦ, ᓲᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᐃᒦ, ᒦᒦ	NCN ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦ, ᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ CSAS
ᒦᒦ, ᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦ, ᓂᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦ, ᒦᒦᒦ	᠁ᒦᒦᒦ
ᒦᒦ, ስᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦ, ᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦᒦ, ᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦᒦᒦ, ᒦᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦᒦᒦᒦ, ᒦᒦᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦᒦᒦᒦᒦ, ᒦᒦᒦᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦᒦᒦᒦᒦᒦ, ᒦᒦᒦᒦᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦᒦᒦᒦᒦᒦᒦ, ᒦᒦᒦᒦᒦᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
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ᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦ, ᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦ, ᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ
ᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦ, ᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦᒦ	ΔLᒦᒦᒦᒦ ᐳdΔᒦᒦ

Ċ̓p̓d̓ C̓k̓u̓r̓d̓n̓ Ă̓d̓a̓e̓d̓n̓c̓d̓r̓ ď̓e̓s̓:

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bCD< ხ̓a̓l̓u̓c̓ Ճ̓a̓s̓c̓n̓a̓y̓c̓ Ճ̓i̓n̓r̓n̓y̓r̓ Ճ̓a̓s̓c̓d̓r̓/Ճ̓a̓s̓c̓ Ԫ̓r̓d̓t̓r̓d̓ Ճ̓a̓s̓c̓ ՚p̓c̓_a̓s̓r̓s̓
Ճ̓a̓s̓c̓ ՚t̓ ՚V̓D̓F̓O. 2022. (*Delphinapterus leucas*). DFO Can. Sci. Advis. Sec. Sci. Advis. Rep.
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