The most recent population estimate for Eastern High Arctic – Baffin Bay belugas was published in the following paper.

Innes, S., M.P. Heide-Jørgensen, J.L. Laake, K.L. Laidre, H.J. Cleator, P. Richard and R.E.A. Stewart. 2002. Surveys of belugas and narwhals in the Canadian High Arctic in 1996. NAMMCO Scientific Publication 4: 169-190.

ABSTRACT

The summer range of belugas (Delphinapterus leucas) in Prince Regent Inlet, Barrow Strait and Peel sound in the Canadian High Arctic was surveyed from 31 July to 3 August 1996 with a visual aerial survey of offshore areas and photographic aerial surveys of concentration areas. The visual survey estimate based on the number of belugas visible to the observers using systematic line transect methods was 10,347 (cv = 0.28). This included corrections for whales that were missed by the observers, observations without distance measurements and an estimate of 1,948 (cv = 0.22) belugas from a photographic survey in southern Peel Sound. Using data from belugas tagged with satellite-linked time-depth recorders, the estimate was adjusted for individuals that were diving during the survey which resulted in an estimate of 18,930 belugas (cv = 0.28). Finally, counts of belugas in estuaries, corrected for estuarine surface time, were added to provide a complete estimate of 21,213 belugas (95% CI 10,985 to 32,619).
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ᓇᓚᐅᑦᑖᖅᑕᐅᕋᑖᖅᓯᒪᔪᑦ ᐅᓄᕐᓂᖏᑦ ᖁᑦᑎᑦᑐᒥᑦ ᑲᓇᓐᓇᖓᓄ ᐅᑭᐅᑕᖅᑑᑉ - ᕿᑭᖅᑖᓘᑉ ᐃᒪᖓᓂ ᐅᕙᓂ ᐸᐃᑉᐹᒥ ᓴᖅᑭᖅᑎᑕᐅᓚᐅᖅᑐᖅ.

Innes, S., M.P. Heide-Jørgensen, J.L. Laake, K.L. Laidre, H.J. Cleator, P. Richard ᐊᒻᒪ R.E.A. Stewart. 2002. ᖃᐅᔨᓴᕐᓂᖅ ᕿᓚᓗᒐᕐᓂᑦ ᑑᒑᓕᓐᓂᓪᓗ ᑲᓇᑕᐅᑉ ᖁᑦᑎᑦᑐᒥᑦ ᐅᑭᐅᑕᖅᑐᖓᓂᑦ 1996-ᒥᑦ. NAMMCO ᖃᐅᔨᓴᓂᕐᒧᑦ ᓴᖅᑭᖅᑎᑕᐅᔪᑦ 4: 169-190.

ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᑦ

ᐊᐅᔭᒃᑯᑦ ᓇᒧᓐᖓᖃᑦᑕᕐᓂᖏᑦ ᕿᓚᓗᒐᐃᑦ (Delphinapterus leucas) ᑰᒐᓇᕐᔫᑉ ᑕᕆᐅᖓᓂ, Barrow
Strait ᐊᒻᒪ Peel Sound ᑲᓇᑕᐅᑉ ᐅᑭᐅᑕᖅᑐᒥᑦ ᖁᑦᑎᑦᑐᒥᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᑦ 31 ᔪᓚᐃ-ᒥᑦ 3 ᐋᒡᒌᓯᒧᑦ 1996-ᒥᑦ ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᖅᑐᑎᑦ ᐃᒪᐃᓐᓇᕐᒥᑦ ᐊᒻᒪ ᐊᔾᔨᓕᐅᕆᓪᓗᑎᑦ ᖃᖓᑕᓲᒃᑯᑦ. ᑕᑯᔭᐅᔪᓂᑦ ᖃᐅᔨᓴᕐᓂᐅᔪᑦ ᑐᓐᖓᓂᖃᖅᑐᑦ ᐊᒥᓲᓂᖏᓐᓂ ᕿᓚᓗᒐᐃᑦ ᑕᑯᒃᓴᐅᔪᑦ ᖃᐅᔨᓴᖅᑎᒧᑦ ᐊᑐᖅᑐᑎᑦ ᑭᓪᓕᖃᓐᖑᐊᖅᑐᑎᑦ ᐊᒡᒍᖅᓯᒪᔪᓂᑦ ᐃᒪᐃᑦᑑᓚᐅᖅᑐᖅ 10,347 (cv = 0.28). ᑖᓐᓇ ᐱᖃᓯᐅᔾᔨᔪᖅ ᐋᖅᑭᒋᐊᕈᑎᓂᑦ ᕿᓚᓗᒐᕐᓄᑦ ᑕᑯᔭᐅᓚᐅᖏᑦᑐᓄᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ, ᖃᐅᔨᓴᕐᓃᑦ ᐅᖓᓯᑦᑐᒧᑦ ᐆᑦᑑᑎᖃᕋᑎ ᐊᒻᒪ ᓇᓚᐅᑦᑖᖅᑕᐅᔪᖅ 1,948 (cv = 0.22) ᕿᓚᓗᒐᐃᑦ ᐊᔾᔨᓕᐅᕈᑎᒃᑯᑦ ᖃᐅᔨᓴᕐᓂᐅᔪᒥᑦ ᓂᒋᖓᓂ Peel Sound. ᐊᑐᖅᑐᑎᑦ ᕿᓚᓗᒐᕐᓂᑦ ᓇᓗᓇᐃᒃᑯᓯᖅᑕᐅᓯᒪᔪᓂᑦ ᖁᒻᒧᐊᑦᑎᑕᐅᓯᒪᔪᒃᑯᑦ

ᐊᖅᑲᐅᒪᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᓂᐱᓕᐅᕈᑎᑦ, ᓇᓚᐅᑦᑖᖅᑕᐅᓯᒪᓂᖓ ᐋᖅᑭᒋᐊᖅᑕᐅᓚᐅᖅᑐᖅ ᐃᒻᒥᑰᖅᑐᓄᑦ ᐊᖅᑲᐅᒪᓚᐅᖅᑐᑦ ᖃᐅᔨᓴᖅᑎᓪᓗᒋᑦ ᓇᓚᐅᑦᑖᖅᑕᐅᓚᐅᖅᑐᖅ 18,930 ᕿᓚᓗᒐᐃᑦ (cv = 0.28). ᑭᖑᓪᓕᖅᐹᒥᑦ, ᓈᓴᖅᑕᐅᔪᑦ ᕿᓚᓗᒐᐃᑦ ᑰᖓᑕ ᐃᓱᖏᓐᓂ, ᐋᖅᑭᒋᐊᖅᑕᐅᔪᖅ ᑰᖓᑕ ᐃᓱᖏᓐᓂ ᐳᑦᑕᓂᕆᕙᑦᑕᖏᓐᓂ, ᐃᓚᒋᐊᖅᑕᐅᓚᐅᖅᑐᑦ ᐊᑕᖏᖅᑐᓂ ᓇᓚᐅᑦᑖᖅᑕᐅᔪ 21,213 ᕿᓚᓗᒐᐃᑦ (95% CI 10,985 ᑎᑭᑦᑐᒍ 32,619).