Fisheries and Oceans Canada | Pêches et Océans Canada

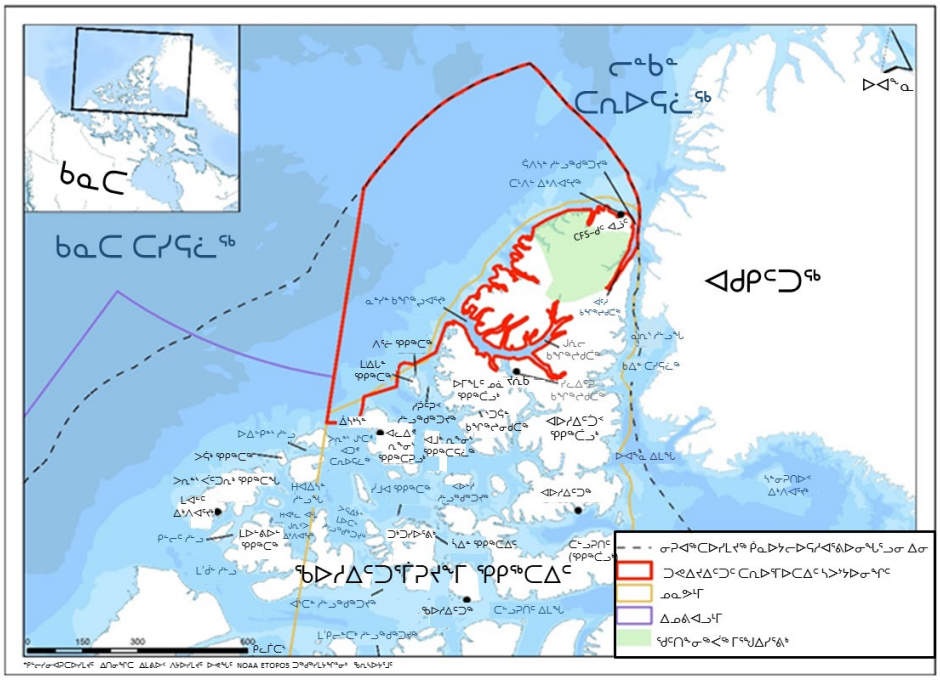
Ecosystems and Oceans Science | Sciences des écosystèmes et des océans

ᑲᓇᑕᒥ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑏᑦ
ᐃᖃᓇᐃᔭᕐᕕᖕᒐᑦ
ᐋᕕᒃᑐᖅᓯᒪᓂᐊᓐᓂ ᐋᓐᑎᐅᕆᔫᑉ ᓇᐹᖅᑐᖃᖏᓐᓂᐅᔪᓂᖏᓪᓗ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᑦ ᑭᐅᔾᔪᑎᒃᓴᓂᒃᑕᐃᑦ 2020/056

ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᐊᕙᑎᒥ ᐊᕙᑎᒥᐅᑕᖏᓐᓄᓪᓗ ᐱᒻᒪᕆᐅᓂᖃᖅᑐᑦ, ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᓪᓗ, ᓴᐳᓐᓂᐊᖅᑕᐅᔪᒪᓂᕐᒧᑦ ᑐᕋᒐᕆᔭᐅᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᖅᒥ ᑕᕆᐅᕐᒥ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕕᖕᒐᓂ

ᖃᓄᐃᓕᖕᒐᓂᖕᒐ

ᑕᕆᐅᕐᒥ ᑕᐃᔭᐅᔪᒥ ᑐᕙᐃᔪᐃᑦᑐᖅ ᐃᒪᖅ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕗᖅ (ᑕᕆᐅᖅ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᒃ; ᑕᑯᔭᒃᓴᖅ 1) ᓴᕿᑎᑕᐅᓚᐅᖅᑐᖅ ᒥᓂᔅᑕᒧᑦ ᒪᓕᒐᓕᐅᕈᑕᐅᓪᓗᓂ ᑕᒫᓂ ᐋᒐᓯ 21, 2019-ᖕᒍᑎᓪᓗᒍ, ᑐᖕᒐᕕᐅᓗᑎᒃ ᐱᒻᒪᕆᐅᓂᖏᑦ ᓯᑯᒥᓲᖕᒍᔪᑦ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᑎᑭᑕᐅᕙᓪᓕᐊᑐᐃᓐᓇᖃᑕᓕᕐᓂᖕᒐᓄᑦ ᐱᓕᕆᕝᕕᐅᕙᓪᓕᐊᖃᑕᕐᓂᕐᒧᑦ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᔅᓯᒦᓐᓂᖕᒐ. ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖕᒐ ᒥᓂᔅᑕᒧᑦ ᒪᓕᒐᓕᐅᕈᑕᐅᓚᐅᕐᓂᖕᒐᓄᑦ, ᐊᑐᖅᓱᑎᒃ ᑕᕆᐅᓕᕆᓂᕐᒧᑦ ᒪᓕᒐᕐᓂᒃ ᐱᔪᓐᓇᐅᑕᐅᔪᓂᒃ ᒥᓂᔅᑕᖕᒐᓄᑦ ᐃᖃᓗᓕᕆᓂᕐᒧᑦ, ᑕᕆᐅᓕᕆᓂᕐᒧᑦ, ᑲᓇᑕᐅᓪᓗ ᓄᓇᕐᑯᑎᖏᓐᓂᒃ ᑕᕆᐅᒃᑯᑦ ᓴᐳᓐᓂᐊᖅᑎᖏᓐᓂᒃ ᓯᑯᓯᐅᑎᒃᑯᑦ (“ᒥᓂᔅᑕᖕᒐᑦ”) ᓄᖃᖅᑎᑦᑎᓯᒪᔪᓐᓇᕐᓂᖅ ᐱᓕᕆᕝᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᑕᐅᕙᓂ ᐊᑯᓂᐅᓂᖃᖅᑎᒋᔪᓐᓇᖅᑐᓂᒃ ᑕᓪᓕᒪᓂᒃ ᐊᕐᕌᒍᓂᒃ, ᑲᔪᓯᑎᑦᑎᓂᖏᓐᓂ ᖃᓄᖅ ᐊᔪᕐᓇᖏᑎᒋᖕᒪᖔᑦ ᖃᐅᔨᓴᕐᓂᖅ ᑐᑭᓯᓂᐊᕈᑕᐅᓪᓗᑎᒃ ᓈᒪᖕᒪᖔᑕ ᐊᑯᓂᐅᓂᐊᖅᑐᒧᑦ ᓴᐳᓐᓂᐊᕈᑎᒃᓴᓂᒃᑕᐅᓯᒪᓂᖏᑦ ᑕᐅᕙᓂ (ᓱᕐᓗ ᑎᒃᑯᐊᖅᑕᐅᓯᒪᓂᖕᒐᓄᑦ ᑕᕆᐅᖕᒐ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᐅᓕᕐᓂᖅ [ᑕᕆᐅᖕᒐ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᓂᕐᒧᑦ ᒪᓕᒐᓕᒃ] ᒥᓂᔅᑕᐃᑦ ᑲᑎᒪᔨᑦ ᐊᐅᓚᑦᑎᔨᖏᓐᓄᑦ ᐊᒻᒪᓗ ᑕᐃᑰᓇ ᑲᓇᑕᓕᒫᒥ ᑕᕆᐅᕐᒥ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓂ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᑲᓇᑕᓕᒫᒥ ᑕᕆᐅᕐᒥᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄᑦ ᒪᓕᒐᐃᑦ).



ᑕᑯᔭᑎᑦᑎᒋᐊᕈᑦ 1. ᒫᓐᓇᐅᔪᖅ ᑭᒡᓕᖃᕐᕕᐅᓂᖕᒐ ᑐᕙᐃᔪᐃᑦᑑᑉ ᑕᕆᐅᖕᒐᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖕᒐᓂ (ᑕᕆᐅᖅ ᓴᐳᓐᓂᐊᖅᑕᖅ) ᐅᐊᖕᓇ ᖅᐸᓯᖕᒐᓂ ᓄᓇᕗᑦ. ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᔪᖅ ᐃᖃᓗᓕᕆᔨᕐᔪᐊᒃᑯᓐᓄᑦ ᑕᕆᐅᕐᒥᐅᑕᓕᕆᔨᒃᑯᓐᓄᓪᓗ (2019).

ᑲᓇᑕᐅᑉ ᒐᕙᒪᒃᑯᖏᑦ, ᐃᓚᒋᓪᓗᓂᒋᑦ ᕿᑭᖅᑕᓂ ᐃᓄᐃᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᑦ ᐊᒻᒪᓗ ᓄᓇᕗᑦ ᒐᕙᒪᒃᑯᖏᑦ ᐊᑑᑎᖃᕐᒪᖔᑖ ᖃᐅᔨᓇᓱᒋᐊᖃᕐᒪᑕ ᑕᐅᕙᓂ. ᑕᒪᓐᓇ ᖃᐅᔨᓴᕐᓂᖅ ᐱᔾᔪᑎᖃᖅᐳᖅ ᑕᐅᕙᓂ ᐆᒪᔪᐃᓪᓗ, ᖁᐱᕐᕈᖃᕈᓐᓇᕐᓂᖏᓐᓂ ᖃᓄᐃᖏᓐᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᐊᕙᑎᖓᓂᒃ, ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓐᓂᓪᓗ ᑐᑭᓯᐊᓂᐊᕐᓂᖅ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕕᖓᓂ, ᑕᐃᑯᐊ ᒫᓐᓇᓴᖑᓚᐅᖅᑐᖅ ᓴᕿᑎᑕᐅᓚᐅᖅᑐᓂᒃ ᐅᓂᒃᑳᓕᐊᖏᓐᓂᒃ ᐃᖃᓇᐃᔭᖅᑏᑦ ᑦᓯᐅᕆᑦᑯᑦ ᐱᓕᕆᖃᑎᖏᓪᓗ Charette et al. (2020). ᐅᓂᒃᑳᓕᐊᖏᑦ ᑕᒪᒃᑭᖅᓯᒪᔪᓂᒃ ᐅᖃᐅᓯᖃᕐᒪᑕ ᒫᓐᓇᐅᓂᖅᐹᖑᓯᒪᔪᒥ ᐊᑐᐃᓐᓇᐅᔪᓂᓪᓗ ᐊᑐᖅᓱᑎᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᕆᔭᐅᓕᖅᑐᓂᒃ, ᐃᓚᖃᕐᒥᔪᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᐃᑲᔪᖅᓲᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᐊᕙᑎᒥ ᐊᕙᑎᒥᐅᑕᐅᒥᑕᓂᓪᓗ ᐃᓚᒋᔭᐅᓂᖏᓐᓂᒃ SECs ᑕᒪᒃᑯᓂᖓ ᐊᕙᑎᖏᓐᓂ, ᐊᕙᑎᒥᐅᑕᖏᓐᓂᓗ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᓄᓇᓕᖏᐅᑕᓄᑦ ᐱᕐᑯᑎᒋᔭᐅᓂᖏᑦ, ESSCPS ᐊᒻᒪᓗ ᐃᓕᑕᕆᔭᐅᓂᖏᓐᓂᒃ ᐱᒻᒪᕆᐅᓂᖃᖅᑎᑕᐅᔪᑦ ᐃᓂᖃᕐᕕᐅᔪᑦ (Charette et al. 2020). ᐅᓂᒃᑳᓕᐊᖏᑦ. ᐅᖃᐅᔾᔨᒋᐊᕈᑎᖏᑦ ᓴᕿᑎᑕᐅᓯᒪᔪᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂᒃ ᑭᐅᔾᔪᑎᒃᓴᓂᒃᑕᐅᓯᒪᓂᖏᑦ ᑖᒃᑯᐊ ᖃᐅᔨᒪᔾᔪᑕᐅᔪᓐᓇᕐᓂᐊᖅᑐᑦ ᐃᓱᒪᓕᐅᕈᑕᐅᖃᑕᕐᓂᖏᓐᓄᑦ ᐋᕿᐅᒪᓂᖓᓄᑦ ᐊᑯᓂᐊᓄᐊᖅᑐᒧᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᖅᓯᒪᕕᖓᓄ ᑐᕙᐊᐃᔪᐃᑦᑑᑉ ᐊᒻᒪᓗ ᐃᑲᔪᕐᓂᖃᕈᓐᓇᖅᓱᑎᒃ ᐅᖃᐅᓯᐅᓕᕈᑎᒃ ᑭᒡᓕᖃᕐᕕᐅᓂᖏᑦ (ᐊᒻᒪᓗ ᐊᕕᒃᑐᖅᓯᒪᓂᓇᓕᕈᓐᓇᖅᑕᖏᑦ ᐱᔭᕇᐊᖃᕈᑎᒃ) ᐊᒻᒪᓗ ᖃᐅᔨᒪᔾᔪᑕᐅᕙᒡᓗᑎᒃ ᐱᔾᔪᑎᖃᕐᓂᕐᒧᑦ ᓴᕿᑎᑦᑎᔪᒪᓂᕐᒧᑦ ᐋᕿᐅᒪᓂᐊᖅᑐᓕᒃ/ᒪᓕᒐᓪᓗᑐᖃᕈᑕᐅᔭᕇᐊᖃᕐᓂᖏᓐᓂᓗᓐᓃᑦ. ᐅᖃᐅᔾᔨᒋᐊᕈᑎᖏᑦ ᑖᒃᑯᐊ ᖃᐅᔨᒪᔾᔪᑕᐅᓂᐊᕐᒥᔪᑦ ᒫᓐᓇᐅᔪᖅ ᐊᑐᖅᑕᐅᓕᕇᖅᑐᓄᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓄᑦ ᑐᕌᒐᔭᐅᔪᓄᑦ, ᐊᑐᕐᓗᑎᒃ ᒫᓐᓇᓴᖑᓂᖅᐹᖑᓕᖅᑐᖅ ᓴᕿᑎᑕᐅᓯᒪᔪᓂᒃ ᖃᐅᒪᔾᔪᑎᒃᓴᖃᔭᐅᓕᐊᔭᐅᓯᒪᓕᖅᑐᓂᒃ. ᑕᒪᒃᑯᐊ ᕿᒥᕐᕈᐊᖅᑕᐅᓂᖏᑦᑕᐅᖅ ᖃᐅᔨᒪᔾᔪᑕᐅᖃᑕᕐᓂᐊᓕᕆᕗᑦ ᑭᖑᓂᐊᒍᑦ ᐅᖃᐅᔾᔨᒋᐊᕈᑕᐅᔪᓐᓇᕐᓂᕐᒧᖅ ᓇᐅᑦᑎᖅᑐᐃᕝᕕᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᖏᕈᑕᐅᓕᕈᓐᓇᖅᑐᓄᑦ ᐊᒻᒪᓗ ᖃᓄᐃᓕᐅᕈᑕᐅᓕᕈᓐᓇᖅᑐᓄᑦ, ᐃᓕᑕᕆᔭᐅᓗᑎᒡᓗ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ ᓇᐅᒃᑯᑦ, ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᓱᓕ ᖃᐅᔨᓴᖅᑕᐅᔭᕆᐊᖃᕐᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᓴᓇᔭᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᐅᓚᑦᑎᓂᕐᒧᑦ ᐸᕐᓇᐅᑎᓂᒃ ᑕᐅᕗᖓ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖕᒧᑦ.

ᐅᑯᐊ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᓂᒃ ᑭᐅᔾᔪᑎᒃᓴᓕᐊᑦ ᐅᓂᒃᑳᓕᐊᑦ ᓴᕿᑎᑕᐅᔪᑦ ᑕᐃᒃᑯᓇᖓ ᖃᐅᔨᓴᖅᑕᐅᔪᓂᒃ ᑭᐅᔾᔪᑎᒃᓴᓕᐅᕈᒪᓂᕐᒧᑦ ᑲᒪᒋᔭᐅᓚᐅᖅᑐᓂ ᐊᒃᑑᐱᕆ 6-7-ᒥ, ᐊᒻᒪᓗ ᐊᒃᑑᐱᕆ 28, 2020-ᒥ ᐃᓕᑕᕆᔭᐅᔭᕆᐊᖃᕐᓂᖏᓐᓄᑦ ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᐆᒪᔪᐃᑦ ᖃᓄᐃᖏᓐᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᐊᕙᑎᖓᓂᒃ, ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓐᓂᓪᓗ ᖃᓄᐃᓕᖓᓂᖏᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᑕᕆᐅᕐᒥ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖕᒥ.

ᖃᓄᖅ ᐱᕙᓪᓕᐊᒪᐅᕐᒪᖔᑦ

ᐊᕕᒃᑐᖅᓯᒪᓂᖓ ᐊᖏᓂᖓ

ᑐᕙᐃᔪᐃᑦᑐᖅ ᐃᒫ ᐃᓚᖃᖅᐳᖅ ᑕᕆᐅᕐᒥ ᐃᒪᕐᓂᒃ ᐅᐊᖕᓇᖅᐸᓯᖓᓂᒃ ᐊᐅᓱᐃᑦᑑᑉ, ᐅᒥᖕᒪᐃᑦ ᓄᓈᑦ-ᓇᐹᖅᑐᓕᖕᒥ (Axel Heiberg-ᒥᒃ) ᐊᒻᒪᓗ ᐋᓕᕝ ᓇᖕᓂᓯᕕᓂᐅᑉ-Ellef Ringnes ᕿᑭᖅᑕᖏᓐᓂ, ᑕᐅᕗᖓᓗ ᐅᖓᑖᓄᑦ ᑲᓇᑕᐅᑉ ᐊᐅᓚᑦᑎᔨᐅᕝᕕᒋᔭᑐᐊᓇᔪᓐᓇᖅᑕᖓᓂ ᑮᓇᐅᔭᓕᐅᕐᕕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐃᒪᕐᓂ ᑕᕆᐅᕐᒥ ᑭᒡᓕᖃᕐᕕᖓᑕ ᐃᓗᐊᓂ. ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖓ ᑎᑭᐅᒪᕗᖅ ᐱᖓᓐᓇᖅᐸᓯᖓᓂᒃ ᑕᕆᐅᕋᓛᑉ ᑕᐃᔭᐅᔫᑉ Prince Gustav Adolf Sea-ᒥᒃ ᑕᐅᕗᖓ ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᑲᓇᖕᓇᖓᓂ ᓄᕗᐊᓄᑦ ᐊᐃᓱᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂᒃ, ᐊᒻᒪᓗ ᓂᒋᖅᐸᓯᐊᒍᑦ ᐱᖓᓐᓇᖓᒍᑦ Rebeson Channel ᓯᒡᔭᖓᓂᒃ ᑕᐅᕗᖓ ᑎᑭᓪᓗᒍ Archer Fiord ᑲᖏᖅᑐᖓᓄᑦ. ᐃᓚᒋᔭᐅᒋᕗᑦ Nansen Sound ᓈᓐᓯᓐᓂᐅᑉ ᐃᒪᖓᑦ ᐊᒻᒪᓗ Greely Fiord ᑲᖏᖅᑐᖓ, ᐃᓚᒋᔭᐅᒐᑎᒃ ᑕᐃᒃᑯᐊ ᐊᑕᔪᑦ ᖁᑦᑎᓂᖅᐹᒧᑦ ᑲᓇᑕᓕᒫᒥ ᒥᖑᐃᓯᕐᕕᐅᑉ ᐃᒫᓄᑦ. (ᐃᖃᓗᓕᕆᔨᕐᔪᐊᒃᑯᑦ 2019; ᑕᑯᔭᒃᓴᖓᑦ 1).

ᑐᕙᐃᔪᐃᑦᑑᑉ ᐊᕙᑎᖓ ᓯᑯᕕᓂᑐᖃᐃᓐᓇᐅᕗᖅ ᐊᑕᔪᒥᒃ ᓄᓇᒧᑦ ᐃᓚᖏᓐᓄ ᒥᑭᔫᑎᐅᓂᖅᓴᓂ ᑲᖏᖅᑐᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᖏᔪᐊᓗᖏ ᑕᕆᐅᖑᓂᐊᓗᐊᓂᒃ ᑕᒃᐹᓂ ᐅᐊᖕᓇᖅᐸᓯᖓᓂ ᐊᐅᓱᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂᒃ, ᓂᒡᓚᓱᒡᔪᐊᖃᑦᑕᖅᑐᒥ ᓯᑯᓯᒪᓂᐊᓗᐊᓂ ᐃᓚᖏᓐᓂ (CAA), ᑲᓇᑕᐅᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᕐᑯᑎᒐᓴᖏᓐᓄᑦ, ᓯᑯᐃᓐᓇᐅᓂᖓᒍᓪᓗ ᑕᐅᕗᓇ ᕿᑭᖅᑕᐃᑦ ᓯᓚᑖᒍᑦ ᐊᒻᒪᓗ ᐊᐅᓚᕙᖕᓂᖓᓂ ᓯᑰᓂᐊᓗᕙᒃᑐᓂ, ᐊᑭᐊᒍᑦ ᑕᐅᕗᓇᑦ ᑲᖏᖅᑑᑉ-ᓯᒡᔭᐅᑉ-ᑕᕆᐅᑉᓗ

ᐃᒪᖓᒍᑦ. ᑕᒪᓐᓇ ᑭᖑᓪᓕᖅ ᐅᖃᐅᓯᐅᔪᑦ ᐅᑭᐅᒃᑯᑦ ᐊᖏᓂᖃᓲᖑᕗᖅ ᑲᓇᑕᒥ ᑕᕆᐅᕋᓗᐊᑕ ᐃᑎᔪᐊᓘᓂᖓᓂᒃ ᑕᐅᕗᖓ ᐅᐊᖕᓇᖅᐸᓯᖓᓄᑦ ᓯᕐᒥᓕᖕᓄᑦ ᑕᐃᔭᐅᔪᓂ ᑯᐃᓐ ᐃᓕᓴᐱᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓄᑦ ᐊᑕᔪᓂᒃ. ᐊᐅᔭᒃᑯᑦ ᓯᑯᖃᓗᐊᕈᓃᑲᐃᓐᓇᕐᓂᖓᓂ ᐊᒻᒪᓗ ᐊᑕᔪᓃᑲᐃᓐᓇᕐᓂᖓᓂ ᓯᒡᔭᖅᐸᓯᐅᓂᖓᓄᑦ, ᓯᑰᓂᖓ ᐅᖓᕙᕆᐊᖃᑦᑕᖅᐳᑦ ᑕᒪᐃᓐᓄᓕᒫᑲᓴᑎᐊᖅ ᑕᕆᐅᑉ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖓᓄᑦ. ᑭᓯᐊᓂᓕᑕᐅᖅ, ᓯᑰᓴᖃᑕᕐᓂᖓ ᐱᑕᖃᐃᓐᓇᓲᖑᒋᕗᖅ ᓯᓚ ᐅᕐᑰᓇᕐᓂᖅᓴᐅᓕᕋᓗᐊᖅᑎᓪᓗᒍ ᐃᓚᖏᓐᓂ (ᐃᖃᓗᓕᕆᔨᕐᔪᐊᒃᑯᑦ 2011). ᑕᐃᒪᐃᓂᖓᓄᑦ ᐊᔾᔨᐅᖏᒪᑦ ᐱᐅᓯᕆᔭᖓ ᑕᒪᐅᓇ, ᑭᓯᐊᓂ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᑦᑎᐊᖏᑦᑐᖅ, ᐊᒥᓱᓴᖕᓄᑦ ᓯᑯᒦᑐᓐᓇᖅᑐᓄᑦ ᐆᒪᔪᖃᕐᕕᐅᕙᒃᑐᖅ, ᓯᑯᒥᐅᑎᓂᒃ ᕐᑯᐸᐱᓂᒃ ᐊᒻᒪᓗ ᓯᑯᒦᑐᓇᖅᑐᓂᒃ ᐃᒪᕐᒥᓗ ᐆᒪᔪᖃᕈᓐᓇᖅᓯᓂ, ᓱᕐᓗ ᓇᑦᑎᕐᓂᒃ, ᐊᐃᕕᕐᓂᒃ ᐊᒻᒪᓗ ᓇᓄᕐᓂᒃ.

ᑐᕙᐃᔪᐃᑦᑐᖅ ᐃᓂᓕᒃ ᐃᓗᐊᓂ ᐊᖏᓂᖅᓴᓗᖏ ᓯᑯᑐᖃᓘᓕᖏ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᖑᓂᐊᓗᐊᓂ. ᑕᒪᓐᓇ ᓯᑯ ᐊᐅᓚᕙᒃᑐᖅ ᐊᓄᕆᒧᑦ ᓄᖅᑎᑕᐅᖃᑕᖅᓱᑎᒃ ᐊᒃᕕᐊᕐᑯᑕᐅᓂᖏᓐᓄᑦ ᐃᓚᖏᓐᓂ ᑲᓇᑕᐅᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᕐᑯᑎᓴᖏᑦ, ᓯᑯᐃᓇᐅᓂᖏᓐᓂᑦ ᑰᑉᐸᖕᓂᖏᑦ ᐊᓄᕆᒧᓪᓗ ᐃᒪᐃᓪᓗ ᐊᐅᓚᓂᖓᓄᑦ ᓈᑕᐅᖃᑕᕐᓂᖏᓐᓂᒃ. ᓯᑯᑐᖃᐃᑦ ᑐᕙᐃᔪᐃᑦᑐᒥ ᐅᖓᕙᖅᓯᒪᔪᑦ ᑎᑭᐅᒪᓗᑎᒃ ᐃᑎᔫᓂᖏᓐᓄᑦ ᑕᕆᐅᑉ ᐺᐊᓇᓚᖏᓃᑦᑐᓂ ᑭᓛᒥᑕᓕᖕᓂᒃ ᐊᒻᒪᓗ ᓯᓕᑲᓄᖅ ᐅᖓᖅᓯᖕᓂᖅᓴᓄᑦ ᐅᐊᖕᓇᖅᐸᓯᐅᓂᖓᑕ-ᑲᓇᖕᓇᖓᓂᒃ ᐊᒻᒪᓗ ᓂᒋᖅᐸᓯᖓᑕ-ᐱᖓᖕᓇᖓᓂᒃ. ᑕᐃᒃᑯᐊ ᓂᒋᖅᐸᓯᐊᑕ-ᐱᖓᖕᓇᖓᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖓᑦ ᑎᑭᐅᒪᔪᖅ Prince Gustaf Adolf ᑕᕆᐅᖓᓄᑦ, ᓯᑯᕕᓂᖃᐃᓐᓇᐅᓂᖏᑦ ᓇᓂᑐᐃᓈᖅᐹᖅᑐᑦ ᓂᕈᑐᔪᐊᓗᖏ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᖑᓂᐊᓗᐊᓂ, ᑎᑭᐅᒪᑎᒋᔪᓂᒃ ᑕᐅᕗᖓ i) ᐅᐊᖕᓇᖅᐸᓯᖓᑕ-ᑲᓇᖕᓇᖓᓂ ᐊᑯᑭᑦᑐᐃᑦ - ᑲᓚᓈᑦ ᓄᓇᖓᓂ, ᑕᐅᕗᖓᓗ ᐊᑯᑭᒃᑐᐃᑦ ᓄᐊᐅᕕᓪᓗ ᓄᓇᖓᑕ ᐊᑯᓂᖓᓂ ᑕᕆᐅᖓᓂ ᐊᒻᒪᓗ ᐊᑯᑭᑐᑑᑉ ᑕᕆᐅᕋᓗᐊᓄᑦ; ii) ᓂᒋᖅᐸᓯᖏ-ᑲᓇᖕᓈᒍᑦ ᑯᐃᓐ ᐃᓕᓴᐱᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓄᑦ ᑕᐅᕗᖓ ᑎᑭᓪᓗᒍ ᐱᐊᕆᐅᑉ ᐃᒫᓄᑦ ᐊᒻᒪᓗ ᕿᑭᖅᑖᓗᖏ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒫᓄᑦ ᐱᖓᖕᓇᖅᐸᓯᖓᓄᓪᓗᓐᓃᑦ, Lᒃᓘᑉ M'Clure Channel ᐃᒫᓄᑦ ᐊᒻᒪᓗ ᑐᒃᑐᔾᖅᑑᑉ ᑕᕆᐅᖓᓄᑦ ᐅᕝᕙᓗᓐᓃᑦ ᑕᐅᕗᖓ ᖃᒡᒋᐅᔭᕐᒧᑦ M'Clintock Channel-ᒧᑦ ᐊᒻᒪᓗ ᓄᓇᖓᓄᑦ ᓯᒡᔭᒥᒃ; iii) ᓂᒋᖅᐸᓯᐊᑕ-ᐱᖓᓇᖕᖓᓄᑦ ᑐᒃᑐᔾᖅᑑᑉ ᑕᕆᐅᖓᓂᒃ, ᑎᑭᓪᓗᒍ ᐊᒪᑦᓱᑉ ᐃᒫᓄᑦ ᐊᒪᑦᓱᑦ ᐃᒫᓂ-ᒧᑦ, ᐊᓛᔾᑲᒥᐅᑦ ᓯᒡᔭᓄᑦ, ᑦᓱᑲᑦᑲᒥᐅᓄᑦ ᐊᒻᒪᓗ ᐃᓛᖓᓂ ᑕᐅᕗᖓᓛᒫᖅ ᓂᒋᖅᐸᓯᐊᓄᑦ ᐱᐅᓇᖕ ᐃᒫᓄᑦ, ᐊᑯᓂᖓᓂᑑᑉ ᐊᓛᔾᑲᐅᓪᓗ ᓇᓱᐅᓪᓗ ᓄᓇᕐᓂᓂ.

ᑕᐃᒪᓕ, ᖃᐅᔨᓴᐅᑎᐅᑉ/ᓱᕈᖑᔭᐅᑉ ᑲᐃᕕᑉᐸᓪᓕᐊᓂᖓᑕ ᐃᖏᕐᕋᓂᓇᔭᖓᑕ ᐃᒡᓗᐊᓄᖕᒫᖅ ᑲᐃᕕᓐᓂᖃᖅᑐᒥᒃ ᑐᒃᑐᔾᖅᑑᑉ ᑕᕆᐅᖓᓂᒃ ᐃᓚᓂᒃᑯᑦ ᑎᑭᓗᑕᐅᕙᒃᑐᖅ ᓂᒋᖅᐸᓯᐊᑕ-ᐱᖓᖕᓇᖓᓂᒃ ᓯᑯᒥᒃ ᐅᑎᖅᐸᓪᓕᐊᓕᖃᑦᑕᖅᑐᓂᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᓂᕐᒧᑦ ᑕᕆᐅᕐᒧᑦ ᑕᐅᕙᖓᑦ ᐅᐊᖕᓇᖅᐸᓯᖓᑕ-ᐱᖓᖕᓇᖓᓂᒃ (ᐃᓄᓕᕆᔨᑐᖃᒃᑯᑦ 2011, Hᐃᑉᓗ ᐱᖓᔪᐊᑦ Hibler III 1989, Gerland et al. ᒎᓚᓐᑦ ᐃᓚᖏᓪᓗ. 2007, ᐅᐳᕋᐃᔭᓐ O'Brien 2019). ᒫᓐᓇᐅᔪᓂ ᐊᖏᔫᑎᐅᓂᖅᓴᐃᑦ ᐊᕐᕌᒍᓴᖕᓂ ᓯᑯᑐᐃᓐᓇᐅᓂᖏᑦ ᑕᐅᕙᓂ ᐃᓄᕕᐊᓗᐃᑦ ᓄᓇᑖᕐᕕᒋᓯᒪᔭᖏᓐᓂ ᐃᓱᒪᒋᔭᐅᔪᓐᓇᖅᐳᑦ ᓱᕐᓗ ᐊᑕᖃᑕᐅᓂᖅ ᐱᑕᖃᐃᓐᓇᓲᖑᓂᖏᓐᓂ. ᐅᑭᐅᒃᑯᑦ ᓯᑯᐃᑦ ᓯᑯᑐᖃᒻᒪᕆᐊᓗᐃᑦ ᐊᑕᑕᖃᑕᕐᒪᑕ ᑕᐃᒃᑯᓄᖓ ᓄᑖᓄᑦᖅ ᓯᑯᕙᓪᓕᐊᓕᕐᒥᔪᓄᑦ ᓇᓂᑐᐃᓐᓇᖅ ᐊᒥᓱᓂᒃ ᐱᑕᖃᓕᐊᓂᒃᑐᓂ ᓄᓇᒧᑦ ᓯᕐᒥᐊᓗᖕᓂᒃ ᐊᑕᔪᓄᑦ, ᑕᐃᒪᐃᓕᖓᓪᓗᑎᒃ ᑕᒪᐃᓕᒪᑲᓴᒃ ᑲᓇᑕᐅᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᕐᑯᑎᓴᖏᓐᓂ ᕐᑯᑦᑎᒃᑐᒥ, ᑕᐃᒃᑯᐊᓗ ᐊᐅᒃᐸᖏᒪᑕ ᐊᒥᓱᓂ ᑕᒪᑯᖓ ᑎᑭᓪᓗᒍ ᑕᕿᒧᑦ ᐋᒐᓯᒧᑦ (Melling 2002, Münchow 2016, CIS 2020). ᓯᑯ ᓱᕋᖅᑎᕋᖓᑦ, ᐃᓚᖏᑦ ᑕᒪᒃᑯᐊ ᓄᓇᒧᑦ ᐊᑕᓚᐅᖅᑑᒐᓗᐊᑦ ᓱᕐᑖᑦ ᑎᒃᑕᐅᓕᖃᑕᖅᑐᑦ ᑕᐅᕗᖓ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒫᓄᑦ, ᓇᐅᒃᑯᕐᕕᒋᔪᓐᓇᖅᑐᑎᒍᑦ. ᐊᑕᐅᓯᐅᖏᑐᒃᑯᑦ. ᐅᑭᐅᖅᑕᖅᑑᓂᖓᓂᑦᑐᖅ ᑕᒪᓐᓇ ᐃᒪᑦ ᐊᐊᓇᓚᖓᓴᖏᓂᒃ ᑭᓛᒥᑕᓂᒃ ᓂᒋᐊᓂᑉᐳᖅ ᑐᕙᐃᔪᐃᑦᑐᒥᒃ, ᑕᒪᓐᓇ ᑎᑭᕝᕕᐅᖃᑕᕐᓂᖏᑦ ᐊᒥᓱᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᓗᓐᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥᒃ ᑕᐅᕗᓈᖅᑐᓂᒃ Nares Strait ᐃᒫᒍᑦ ᐊᒃᑐᐃᓂᖃᓪᓚᕆᓲᖑᕗᖅ ᑐᕙᐃᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖓᓄᑦ ᑕᐅᕙᓂ. (Ingram et al. 2002, Barber et al. 2019).

ᑐᕙᐃᔪᐃᑦᑑᑉ ᐃᒫ ᐊᖏᔪᐊᓘᓂᖓᓄᑦ ᐊᐅᓚᕙᖕᓂᖓᓄᓪᓗ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᕋᓗᐊ, ᐱᒻᒪᕆᐅᕗᖅ ᐃᒪᕐᒥᐅᑕᓄᑦ ᐱᑕᖃᕐᕕᐅᔪᓐᓇᕐᓂᕐᒧᑦ (ᓱᕐᓗ ᓂᕿᒃᓴᕆᔭᐅᕙᒃᑐᓄᑦ) ᐊᒻᒪᓗ ᓯᑯᒧᑦ, ᑕᐅᕗᓈᖃᑦᑕᖅᑐᓂᒃ Nares Strait ᐃᒫᒍᑦᖅ ᐊᒻᒪᓗ ᐊᑯᓐᓂᖓᒍᖃᑕᕐᓂᖏᓐᓂ ᐃᓚᖏᓐᓂ ᑲᓇᑕᐅᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᕐᑯᑎᓴᖏᓐᓂ. ᐸᓯᕕᒃᒥᖕᒫᖅᑐᑦ ᑕᕆᐅᒃᑰᖅᑐᑦ ᑎᑭᑉᐸᒃᑐᑦ ᑐᕙᐃᔪᐃᑦᑐᑕᕐᒧᑦ ᑕᐅᕙᖓᑦ ᑐᒃᑐᔭᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓂᒃ ᐃᒪᕐᒥᒃ ᐱᖓᖕᓇᖅᐸᓯᖓᓂᒃ, ᐃᑳᖅᐸᒃᑐᑦ ᓇᒧᑐᐃᓐᓇᖅ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓄᑦ, ᐃᖏᕐᕋᓂᖓᓂᒃ ᒪᓕᒃᑐᓂᒃ ᑐᒃᑐᔭᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᑕ

ᑲᐃᕕᓐᓂᕆᕙᒃᑕᖓᓂᒃ. ᑕᒪᒃᑯᐊ ᐃᒪᕐᒥᐅᑕᓕᒻᒪᓈᑦ ᐃᒪᖏᑦ ᑲᐃᕕᑦᑐᒥ ᐃᖏᕋᕙᖕᓂᖏᓐᓄᑦ, ᕐᑯᐱᕐᕈᖃᕐᓂᖏᓐᓄᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᕙᒃᐳᑦ, ᐃᒪᕐᒥᐅᑕᖃᖏᓂᖅᓴᐅᓕᖃᑦᑕᖅᓱᑎᑦ ᐊᐅᓚᕙᓪᓕᐊᓂᖏᓐᓂ ᐱᖓᓐᓇᖅᐸᓯᐅᓂᖓᓂᒃ ᑕᐅᕙᖓᑦ Lincoln Sea ᑕᕆᐅᖓᒍᑦ ᐊᒻᒪᓗ Nares Strait ᐃᒫᒍᑦ. ᑐᕙᐃᔪᐃᑦᑐᖅᑕᐅᖅ ᐊᒃᑐᖅᑕᐅᓯᒪᕙᖕᒥᔪᖅ ᐊᑦᑏᓐᑎᒃᒥ ᑕᕆᐅᕋᓗᐊᓄᑦ, ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᖕᒧᑦ ᐊᐅᓚᕙᖕᓂᖓᓄᑦ, ᑕᐅᕗᓇᖃᑕᕐᒪᑦ ᐃᒪᖓ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᑖᓗᐊᓄᑦ ᑕᐅᕙᖓᑦ ᕋᓯᐊᒥᐅᑦ ᓄᓇᖓᑕ ᑕᕆᐅᕋᓗᐊᓄᑦ, ᐊᕕᒃᐸᓪᓕᐊᖃᑕᖅᓱᓂ ᑕᒪᐅᖓ ᑎᑭᑉᐸᓕᐊᓂᖓᓄᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᓂᖓᓄᑦ ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᐃᒪᐃᑦ ᐅᐊᖕᓇᖅᐸᓯᐅᓂᖓᑕᖃᓇᖕᓇᖓᓂ ᐃᒪᐃᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᖏᓂᖅᓴᐅᕙᒃᑐᑦ ᐃᒪᖓᓄᑦ ᐸᓯᕕᒃᒥᖕᒑᖅᑐᑉ, ᐊᒃᑐᖅᑕᐅᓯᒪᓂᖅᓴᐅᕙᖕᒪᑕ ᓴᖏᓂᖅᓴᐅᔪᒥᒃ ᐊᑦᑏᓐᑎᒃᒥᖕᒑᖅᑐᓂᒃ ᐃᒪᕐᓄᑦ. ᐊᒃᑐᖅᑕᐅᓯᒪᓂᖏᑦ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᖕᒥᖕᒑᖅᑐᓂᒃ. ᐊᔾᔨᒌᖏᑑᑎᓂᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᕙᖕᓂᖏᑦ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᖕᒧᐊᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᐃᒪᐃᑦ, ᐊᒻᒪᓗ ᑐᒃᑐᔾᔭᖅᑑᑉ ᑕᕆᐅᖓᑕ ᑲᐃᕕᖃᑕᕐᓂᖓᓄᑦ, ᐊᖏᔪᑎᒻᒪᕆᐊᓗᖕᓂᒃ ᓯᓚᒥᒃ ᐊᒃᑐᖅᓯᓯᒪᓗᑕᐅᕙᒃᑐᑦ ᓲᕐᓗ ᑕᒫᓂ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᕐᓂᕐᒥ ᐊᐅᓚᖃᑕᕐᓂᖓᓂ ᐃᒪᐅ, ᐱᒻᒪᕆᐊᓘᔪᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᕙᒃᑐᑦ ᐃᒪᕐᒥᐅᑕᕆᔭᐅᔪᓐᓇᕐᐸᓂᖏᑦ, ᐊᒥᓱᕈᖅᐸᓪᓕᐊᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐊᕙᑎᖓᓂ ᐊᕙᑎᒥᐅᑕᐃᑦ ᑐᕙᐃᔪᐃᑦᑐᒥ.

ᐱᔾᔪᑕᐅᓂᖓᓄᑦ ᐅᑭᐅᖅᑕᖅᑑᑉ ᐃᒫᓗᐊᓄᑦ ᐊᒻᒪᓗ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒪᖓᓄᑦ ᐹᖓᓃᒻᒪᑦ, ᐊᒻᒪᓗ ᑎᑭᑕᐅᓯᒪᕙᖕᓂᖓᓄᑦ ᐅᖓᓯᒃᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᖃᑕᕐᓂᖅ ᑕᕆᐅᕐᒧᑦ ᐃᒪᕐᓄᑦ ᐸᓯᕕᒃᒥᒃ ᐊᒻᒪᓗ ᐊᑦᑏᓐᑎᒃᒥᒃ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᓯᑯᕙᖕᓂᕐᒧᑦ, ᑐᕙᐃᔪᐃᑦᑐᖅ ᐱᒻᒪᕆᐊᓗᖕᒥᒃ ᐃᓚᒋᔭᐅᕗᖅ ᑕᒪᐃᓐᓄᑦᑎᐊᖅ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᑉ ᖃᓄᐃᓕᓂᕆᔭᑐᖃᖓᓄᑦ.

ᑐᕌᒐᕆᔭᐅᔪᑦ

ᐃᖃᓇᐃᔭᖅᑎᐅᖃᑕᐅᔪᓄᑦ ᖃᐅᔨᓴᖅᑎᐅᖃᑕᐅᔪᓄᑦ ᕿᒥᕐᕈᐊᖅᑕᐅᑎᑕᐅᕗᑦ ᒪᑯᓂᖓ ᐱᓇᓱᐊᕐᓂᕐᒧᑦ:

1. ᐅᓂᒃᑲᖅᑕᐅᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓄᓇᖑᐊᓕᕆᔭᐅᓂᖏᓐᓂ (ᐊᔪᕐᓇᖏᑦᑕᕌᖓᑦ) ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᕙᑎᖏᓐᓂᒃ ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓐᓂᓗ ᑐᕙᐃᔪᐃᑦᑑᑉ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᓂᖓᓂᒃ ᐊᕙᓗᐊᓃᑦᑐᓂ ᐊᑭᐊᓂ ᖃᒋᔭᖏᓐᓂᓗ ᓄᓇᓂᒃ/ᐃᒪᕐᓂᒃ (ᐱᔭᕆᐊᖃᕈᑎᒃ), ᒪᑯᓂᖓᓗ ᐊᔪᕐᓇᖏᑉᐸᑦ ᐱᖃᓯᐅᔾᔨᓯᒪᓗᑎᒃ:

   a. ᐱᒻᒪᕆᐅᓂᖏᓐᓂᒃ ᐊᔾᔨᖃᖏᑦᑐᓂᒡᓗ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐆᒪᔪᖃᕐᓂᖏᓐᓂᒡᓗ ᑕᕆᐅᖓᓂ, ᑕᕆᐅᓪᓗ ᐃᒪᓘᐊᑕ ᖃᓄᐃᓕᖓᓂᖓᓂᒃ;

   b. ᐱᑕᖃᓗᐊᕐᓂᖏᓐᓂᒃ, ᐊᔾᔨᖃᖏᑐᓂᒃ, ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᑦᑑᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐅᒪᔪᐃᑦ ᐱᑕᖃᖅᐸᒃᑐᓪᓗ ᑕᒫᓂ; ᐊᒻᒪᓗ

   c. ᐱᒻᒪᕆᐅᓂᖏᑦ ᐊᕙᑎᖓᓂ ᐆᒪᔪᐃᑦ, ᐆᒪᔫᖏᑦᑐᑦ ᐊᒻᒪᓗ ᐆᒪᔪᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᐊᒃᑐᖅᓯᓯᒪᔪᓐᓇᖅᑐᑦ ᑕᒪᑯᓂᖓ.

2. ᓇᓗᓇᐃᔭᖅᑕᐅᓗᑎᒃ ᐊᒃᑐᖅᑕᐅᓴᕆᐃᑦᑐᓐᓇᕐᓂᖏᑦ ᐆᒪᔪᖃᕐᕕᐅᕙᒃᑐᑦ ᐊᒻᒪᓗ ᐱᒻᒪᐅᓂᖏᑦ ᐆᒪᔪᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᐃ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖓᓂ.

3. ᓇᓗᓇᐃᔭᖅᑕᐅᓗᑎᒃ ᐱᒻᒪᕆᐅᓂᖏᑦ ᓇᓗᓇᕐᓂᖏᑦ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᓪᓗ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᒫᓐᓇᐅᔪᖅ ᑐᑭᓯᐅᒪᔭᐅᓂᖏᓐᓂᒃ ᑕᐃᒪᐃᓕᖓᓂᖓᓂᒃ ᐊᕙᑎᖓᓂᒃ ᐆᒪᔪᖃᓪᓗᐊᑕᕐᓂᖓᓂ ᑐᕙᐃᔪᐃᑦᑑᑉ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖓᓂ, ᐊᑐᓕᕐᑯᔭᓕᐅᕐᓂᐊᕐᒪᑕ ᖃᐅᔨᓴᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᐊ ᐃᓚᑰᓗᐊᖅᑐᑦ, ᐊᔪᕐᓇᕋᔭᖏᑉᐸᑦ.

4. ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ ᐅᖃᐅᔾᔨᕆᐊᕈᑎᒃᑕᖃᕐᓄᑎᒃ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᓂᐊᖅᑐᓂᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᕐᒧᑦ ᑐᕋᓗᕆᔭᐅᔪᓐᓇᖅᑐᓂᒃ ᐊᒻᒪᓗ ᓯᕗᓪᓕᖅᐸᐅᔾᔭᐅᓇᔭᖅᑐᓂᒃ, ᐊᒻᒪᓗ ᑭᒡᓕᖃᕐᕕᒃᓴᐅᓂᐊᖅᑐᓂᒃ ᑕᒪᐅᖓ ᑐᕙᐃᔪᐃᑦᑑᑉ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖓᓂ

ᑐᑭᓕᐅᖅᑕᐅᓂᖏᑦ ᐊᒻᒪᓗ ᑭᐅᔾᔪᑕᐅᑎᒃᓴᐃᑦ

ᐃᒪᕐᒥᐅᑕᐃᖃᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓐᓂᒃ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐅᓂᒃᑳᓕᐅᓚᐅᖅᑐᑦ ᑐᕙᐃᔪᐃᑦᑑᑉ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᖃᓂᒋᔭᖏᓐᓂᓗ ᐊᑭᐊᓃᑦᑐᓂᒃᓗ ᑕᐃᒃᑯᓄᖓ ᑲᒪᒋᔭᐅᓂᖏᓐᓂ Charette et al. (2020), ᑐᑭᓯᕙᓪᓕᕈᑎᒃᓴᓕᐊᕆᔭᐅᓚᐅᖅᑐᓂᒃ ᑎᑎᕋᖅᓯᒪᔪᑦ ᑕᒪᒃᑭᖅᑕᐅᓗᑎᒃ ᕿᒥᕐᕈᐊᖅᑕᐅᓚᐅᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᖏᓐᓂᒃ ᐅᓂᒃᑳᓕᐊᖏᑦ, ᖃᐅᔨᓴᖅᑎᐅᖃᑕᐅᕙᒃᑐᓄᓪᓗ ᑐᕌᖓᔪᓂᒃ ᐅᖃᓕᒫᒐᓕᐊᕆᔭᐅᓚᐅᖅᑐᑦᖅ, ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᐃᓄᐃᑦ ᖃᐅᔨᒪᔭᑐᖃᖏᑦ. ᐅᓂᒃᑳᓕᐊᓂᑕᐅᖅ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᒋᕗᑦ ᒫᓐᓇᐅᓕᖅᑐᖅ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᐅᕝᕙᓗᓐᓂᑦ ᐊᒃᓱᕈᕐᓇᕈᑕᐅᓕᕈᓐᓇᕐᓂᖏᑦ ᐊᕙᑎᖓᓄᑦ, ᐊᕙᑎᒥᐅᑕᕆᔭᐅᔪᓄᑦ ᐊᒻᒪᓗ ᐅᖃᐅᓯᐅᓗᐊᑕᖅᓱᑎᒃ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᖏᓂᖏᓐᓄᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ.

ᑕᒪᓐᓇ ᑐᕙᐃᔪᐃᑦᑑᓂᖅ ᖃᑯᑎᒃᑯᑦ ᑎᑭᓯᒪᕝᕕᐅᖃᑦᑕᖅᓯᒪᓗᓂ, ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᖅᓯᒪᓗᓂᓗ, ᓱᓕ ᐊᒥᓲᓗᐊᒻᒪᕆᖏᓐᒃᓂ/ᐊᖏᔪᒥᒃ ᖃᐅᔨᒪᔭᐅᖏᓐᓂᖃᓗᐊᖅᐳᖅ, ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᑎᑭᑕᐅᓴᕋᐃᖏᓂᖓ, ᐊᒻᒪᓗ ᑎᑭᑕᐅᔪᓐᓇᐃᓕᖃᑕᕐᓂᖓᓄᑦ ᐃᔾᔪᔪᐊᓗᖏᒃ ᓯᑯᑐᖃᐃᓐᓈᓗᓂᖓᓂ ᑕᕆᐅᒥ. ᐱᑕᖃᕙᑦ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕈᑎᖏᓐᓄᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᐊᑕᖃᑎᑦᖓᑕ ᐊᒻᒪᓗ ᐱᔭᕆᐊᑐᓪᓗᑎᒃ ᐱᐅᓯᑐᖃᕆᔭᐅᓂᖏᑦ (ᓱᕐᓗ ᑕᕆᐅᕐᒥ ᓯᑯ ᐱᔾᔪᑕᐅᕙᓂᖓᓂᒃ, ᖃᓂᓐᓂᖏᓐᓂᒃ ᐅᖓᓯᒃᑐᓂᓗ ᓯᓚᐅᑉ ᖃᓄᐃᓕᕙᓂᖓᓂᒃ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᐊᐅᓚᕙᓂᖏᓐᓄᑦ ᐱᔾᔪᑕᐅᕙᓂᖏᑦ), ᐊᑕᓂᖏᓐᓄᑦ ᑐᒃᑐᔭᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓄᑦ, ᑕᒃᐸᐅᖓ ᐅᐊᖕᓇᖅᐸᓯᖓᓄᑦ ᐃᒫᓗᕐᒧᑦ ᐊᒻᒪᓗ ᐃᒪᕐᒧᑦ ᐊᐅᓚᕕᐅᕙᓂᖓᓄᑦ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒫᓄᑦ ᐊᒻᒪᓗ ᑲᔪᓯᕙᒃᑐᒥᒃ ᓂᒋᐊᓄᑦ ᓚᐸᑐᐊᕆᑉ ᑕᕆᐅᖑᓂᐊᓗᐊᓄᑦ ᐃᒪᕐᒧᑦ. ᐊᖏᔪᒥᒃ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖃᖅᐳᑦ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᐊᕙᑎᒋᔭᖏᓐᓂᒃ, ᐊᕙᑎᒥᐅᑕᕆᕙᒃᑕᖏᓐᓂᒃᓗ (ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᐊᔾᔨᐅᖏᑦᑐᓂᒃ ᓯᑯᒥ ᐆᒪᔪᖃᕐᕕᐅᕙᓂᖏᓐᓂᒃ, ᑕᕆᐅᕋᓗᑉ ᓇᑦᑎᐊᓂᕐᒥᑕᐃᑦ ᐃᖅᑳᓂ ᖁᐸᐱᕈᐃᑦ ᕿᒥᕐᓗᖅᓐᖏᑐᓪᓗ, ᐃᖃᓗᒐᓴᐅᕙᒃᑐᓪᓗ, ᑎᖏᐊᓪᓗ, ᐳᐃᓛᓪᓗ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ) ᐅᕝᕙᓗᓐᓃᑦ ᐊᓯᖏᓐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᑕᐅᕙᒃᑐᑦ ᐊᑐᐃᓐᓇᐅᓂᖏᑦ ᐊᔾᔨᒌᑦᑑᑎᐅᓗᐊᖃᑦᑕᖅᑐᑦ, ᐅᖓᓯᒌᑐᓂᒃ ᐱᔾᔪᑎᖃᑎᒃ, ᖃᐅᔨᓴᖅᑕᐅᔭᕆᐊᖃᕈᑕᐅᔪᓂᒃ ᓱᕐᓗ ᐃᒪᐃᑦ ᑕᕆᐅᕋᓗᖏ ᐃᑎᓂᖃᕐᓂᖏᓐᓂᒃ, ᑕᒪᒃᑯᐊᓗ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᖏᑦᑎᐊᕐᓂᖏᓐᓄᑦ ᑐᑭᓯᔭᐅᔭᕆᐊᖃᖅᑐᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᓐᓂ. ᑕᒪᒃᑯᐊᓘᓐᓃᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐊᕙᑎᖏᓐᓂᒃ ᐃᒪᐃᑦ ᐃᑎᓂᖃᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᖏᒻᒪᑕ ᑲᒪᒋᔭᐅᓚᐅᖅᓯᒪᖏᓗᐊᒧᑦ, ᑐᓴᖅᓴᐅᔪᖃᕐᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᓱᕐᓗ 20 ᑭᓛᒦᑕᒫᕐᒥᒃ ᐃᓚᖏᓐᓂᒃ ᖃᐅᔨᔭᐅᓯᒪᒐᓗᐊᕈᑎᒃ, ᖃᐅᔨᒪᔭᐅᖏᓐᓂᕗᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ ᑲᖏᖅᑐᖏᓐᓂ ᐃᒪᐃᑦ ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑑᓂᖓᓂ (ᑕᑯᓗᒋᑦ ᐃᒪᐃᑦ ᐃᑎᔫᓂᖏᓐᓂᒃ ᑐᓴᖅᓴᐅᔪᖃᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᕈᑎᒋᕕᓂᖏᑦ ᑲᒪᒋᔭᐅᓗᑎᒃ Charette et al. [2020]).

ᖃᓄᖅᑑᕈᑕᐅᕐᑯᓪᓗᒋᑦ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ ᐃᑲᔪᕈᒪᓪᓗᒋᓪᓗ ᑲᓇᑕᐅᑉ ᑲᒪᒋᓂᐊᕐᓂᕋᖅᓯᒪᔭᖏᑦ ᑲᑎᒪᕐᔪᐊᕈᑕᐅᕙᓂᖏᓐᓄᑦ ᐆᒪᔪᓕᕆᓂᕐᒧᑦ ᐊᔾᔨᒌᖏᑑᑎᓂᒃ, ᖃᐅᔨᓴᖅᑕᐅᓂᐊᖅᑐᓂᒃ ᐋᕿᓛᐅᖅᐳᑦ ᐃᖃᓗᓕᕆᔨᕐᕕᐊᒃᑯᑦ, ᐱᒋᐊᖅᑎᑦᑎᓂᐊᖅᓱᑎᒃ ᐊᕙᑎᖓᓂᒃ ᐊᕙᑎᒥᐅᑕᕙᒃᑕᖏᓐᓂᓗ ᖃᐅᔨᓇᓱᐊᕐᓂᖅ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ. ᑎᑎᒃᑯᐊ ᖃᐅᔨᓴᖅᓯᒪᕗᑦ ᐊᔾᔨᐅᖏᓂᖏᓐᓂᒃ ᐊᒥᓱᓂᒃ ᐊᕐᕋᒍᓂ ᓯᑯᓕᑐᖃᓗᓂᖏᓐᓂᒃ ᐊᕙᑎᖏᓐᓂᒃ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓐᓂᓪᓗ, ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᑕᑯᒃᓴᐅᔪᓂᒃ, ᑕᑯᒃᓴᐅᖏᑦᑐᓂᒃ ᐃᓚᒃᓴᔭᐅᓂᕋᖅᑕᐅᕙᒃᑐᓂᒃ ᐊᒻᒪᓗ ᐆᒪᔪᖃᕐᕕᐅᕙᓂᖏᓐᓂᒃ ᐊᕕᑎᐅᓂᖓᓄᑦ ᐱᑕᖃᕐᕕᐅᔪᓂᒃ, ᑕᐃᒃᑯᓂᖓᓗ ᑕᕆᐅᕐᐅᒥᑕᓂᒃ ᐆᒪᔪᕐᓂᒃ ᖃᐅᔨᓴᕐᕕᐅᓂᖏᓐᓂᒃ. (Loewen et al. 2018, Michel and Lange 2018, Michel et al. 2019). ᓄᑖᓂᒃ

ᖃᐅᔨᓴᐅᓯᒪᔪᑦ ᐆᒪᔪᖃᕐᓂᖏᓐᓂ ᑕᐅᕙᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᐊᒪᓗ ᐊᑐᖅᑕᐅᕙᖕᓂᖓᓂᒃ ᑐᑭᓯᓇᖅᓯᕙᓪᓕᐊᓕᖅᑐᑦ, ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐊᒥᓱᑦ ᐊᐃᕖᑦ ᐱᑕᖃᓲᖑᓂᖏᓐᓂᒃ ᑭᖑᓪᓕᕐᒥ ᓯᑯᓕᕆᓚᐅᕐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᑐᒫᓕᒃᑕᖃᕐᓂᖏᓐᓂᒃ ᕿᓚᓗᒐᕐᓂᒃ, ᐅᐊᖕᓇᖅᓯᐅᓂᕐᒥᒃᑲᓂᖅᑐᓂᒃ ᖃᐅᔨᒪᔭᐅᕙᒃᑐᑐᖃᐅᔪᑦ ᐊᓯᖏᓐᓂᒃ (Yurkowski et al. 2019, C. Carlyle, DFO, pers. comm.). ᑕᒪᕐᒥᑲᓴᐃᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᑐᑭᓕᐅᖅᑕᐅᕙᓪᓕᐊᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᑦ ᓱᓕ ᑐᑭᓯᐊᓂᖅᑕᐅᕙᓪᓕᐊᖕᒪᑕ, ᑎᑎᕋᕈᑕᐅᓯᒪᖏᔅᓱᑎᒡᓗ ᓱᓕ ᖃᐅᔨᓴᖅᑏᑦ ᐅᖃᓕᒫᒐᓇᕙᒃᑕᖏᓐᓂ. ᐊᔾᔨᐅᖏᑦᑐᒥᒃ ᐅᖃᓕᒫᒐᓕᐅᕐᓂᐊᖅᑐᑦ ᑕᐃᑲᓂ ᑕᐃᑲᓂ *Elementa Science of the Anthropocene* ᑕᖅᑭᒐᓴᐅᓂᐊᖅᑐᓂ, ᑎᑎᕋᖅᓯᒪᓂᐊᕐᒪᑕ ᑲᑎᖅᓱᖅᑕᐅᓯᒪᓕᖅᑐᑦ ᑐᑭᔭᐅᓯᒪᓂᖏᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ, ᓯᕗᓪᓕᕐᒥ ᖃᐅᔨᔭᐅᖃᓚᐅᕐᓂᖏᑦ ᑕᒪᑐᒪ ᐊᕙᑎᐊᓂᒃ ᐊᕙᑎᒥᐅᑕᖏᓐᓂᒡᓗ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂᒃ. ᑐᓴᒃᓴᓪᓗᐊᑕᐃᑦ ᓄᑖᓂᒃ ᖃᐅᔨᔭᐅᔪᑦ, ᐅᖃᐅᓯᐅᕙᓚᐅᖅᑐᑦ ᐅᓂᒃᑲᖅᑕᐅᓪᓗᑎᒡᓗᓐᓃᑦ ᓄᓇᓕᖕᓂ ᑲᑎᒪᖃᑕᕐᓂᖏᓐᓂᒃ, ᑕᐃᒃᑯᐊ ᑕᑯᔭᐅᖃᑕᕐᓂᖏᑦ/ᖃᐅᔨᔭᐅᖃᑦᑕᕐᓂᖏᓪᓗ ᐊᒥᓲᓂᖏᓐᓂᒃ, ᐊᔾᔨᒌᖏᑦᑑᑕᐅᕙᖕᓂᖏᓐᓂᒡ ᐆᒪᔪᐃᓪᓗ, ᐱᕈᖅᐸᒃᑐᓪᓗ, ᐊᑕᓃᑐᓂ ᓯᑯᑐᖃᐅᓂᐊᓗᖕᓂ, ᑕᒪᒃᑯᐊ ᖃᐅᔨᔭᐅᔪᓐᓇᕋᔭᓚᐅᖏᒻᒪᑕ ᐊᑐᖅᑕᐅᔪᓐᓇᕐᓂᖏᒃᑯᑎᒃ ᓯᑰᑉ ᐊᑖᓂ ᐃᒪᕐᒥ ᐃᖏᕐᕋᔪᓐᓇᖅᑐᓂᒃ ᐊᐅᓚᑕᐅᓗᑎᒃ ᐅᖓᓯᒃᑐᒥᒃ ᐃᒪᒃᑰᕈᑏᑦ.

ᐊᒻᒪᑕᐅᖅ ᖃᓄᐃᓕᖓᔪ(ᖃᐅᓂᖏᓐᓂᒃ ᐊᕙᑎᖏᑦ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓪᓗ ᑕᒪᐃᓐᓂᒃ ᑎᑎᕋᖅᓯᒪᔭᖏᓐᓂ (Charette et al. 2020), ᓇᖕᒥᓂᖅ ᑕᑯᖃᑕᓚᐅᖅᑕᖏᑦ ᖃᐅᔨᔭᐅᓂᖏᓪᓗ ᖃᐅᔨᒪᔨᑕᕐᓄᑦ ᑕᐅᕙᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᐊᓂᒃ ᓄᓇᒦᖃᑕᐅᓗᑎᒃ ᖃᐅᔨᓴᖃᑦᑕᓚᐅᖅᑐᑦ ᖃᐅᔨᑎᑦᑎᓂᐊᕐᒥᔪᑦ ᖃᐅᔨᒪᔭᑦᑎᓐᓂᒃ ᑐᑭᓯᐅᒪᔭᑦᑎᓐᓂᒡᓗ ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᐊᕙᑎᒥᐅᓕᑕᕆᓂᕐᒥᒡᓗ, ᐃᑲᔫᑕᐅᓂᕐᒧᑦᑯ ᐊᑐᓕᕐᑯᔭᓕᐊᕆᔭᐅᓂᐊᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐅᖃᐅᔾᔨᒋᐊᕈᑕᐅᓂᐊᖅᑐᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ.

ᑕᒪᓐᓇ ᑐᕙᐃᔪᐃᑦᑐᖅ ᐅᐊᖕᓇᖅᐸᓯᐅᓂᖅᐹᖓᓃᒻᒪᑦ ᑲᓇᑕᒥ ᖁᑦᑎᒃᑐᒥᒃ ᕿᑭᖅᑕᒐᓴᖃᕐᕕᐅᓂᖓᓂ, ᐅᖓᓯᒃᓯᓂᓗ ᐊᓯᖏᓐᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓕᖕᓂ. ᑭᓯᐊᓂᓕᑕᐅᖅ, ᖃᓄᑐᐃᓐᓇᖅ ᐊᕙᑎᖓᓂ, ᐊᕙᑎᒥᐅᑕᓇᔭᖏᓐᓂᓗ ᐊᒻᒪᓗ ᐱᐅᓯᑐᖃᐃᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᐊᑕᕗᑦ ᐅᖓᓯᒃᑐᒧᑦ ᐅᖓᑖᓄᑦ ᑭᒡᓕᖃᕐᕕᐅᓂᖏᓐᓂᒃ. ᐱᓗᐊᖅᑐᒥᒃ, ᑐᕙᐃᔪᐃᑦᑐᖅ ᐃᖏᕐᕋᕕᐅᕙᒃᐳᖅ ᐊᐅᓚᕙᖕᓂᖓᓄᑦ ᑕᕆᐅᕐᒥ ᓯᑰᑉ ᐊᒻᒪᓗ ᐃᒪᐅᑉ, ᑎᑭᐅᒪᔪᓂᒃ ᑲᓇᑕᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓂ ᖁᑦᑎᒃᑐᒥ ᐊᒻᒪᓗ ᐅᐊᖕᓇᖅᐸᓯᖓᓂ ᐃᒪᕐᒥᒃ ᑕᐅᕙᖕᒫᖃᑦᑕᖅᑐᓂᒃ ᑲᓇᖕᓇᖅᐸᓯᖓᓂᖕᒫᓂᒃ ᓕᓐᑲᓐ ᑕᕆᐅᖓᓂᒃ ᐃᒪᕐᒥᒃ Lincoln Sea-ᒥᒃ. ᑎᑭᖃᑕᕐᓂᖏᑦ ᑕᕆᐅᕐᒥ ᓯᑯ ᐊᒻᒪᓗ ᐃᒪᐃᑦ ᖃᓄᐃᓕᖓᓂᑦ, ᑕᑯᒃᓴᐅᖏᑦᑐᓂᒡᓗ ᐃᓚᒃᓴᔭᖃᓲᖑᓂᖏᑦ ᐊᒻᒪᓗ ᐆᒪᔪᖃᕐᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑑᑉ ᖃᓄᐃᓕᖓᓗᑕᐅᕙᒃᐳᑦ ᐃᒪᖓᓄᑦ ᓴᓐᓂᕈᑎᐅᑉ, ᑕᐃᒫᑎᒋᓗ ᐅᖓᓯᖕᓂᓕᖕᓄᑦ ᓚᐳᐊᑐᐊᑉ ᑕᕆᐅᖓᓄᑦ. ᑕᕆᐅᕋᓗᐊᓯᑯᐃᓪᓗ ᐆᒪᔪᖃᐃᓪᓗ ᐊᑕᖃᑎᒌᖕᓂᖏᓐᓄᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᖃᓂᒋᔭᖏᓐᓃᑦᑐᓂᓗ (ᓲᕐᓗ ᑲᓇᑕᐅᑉ ᖁᑦᑎᒃᑐᒥ ᕿᑭᖅᑕᒐᓴᖁᑎᖏᓐᓂ, ᑕᐃᕙᓂᓗ ᑕᓪᓗᕈᑎᐅᑉ ᐃᒪᖓᓂ) ᐊᕙᑎᖏᓐᓂ, ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓂᓗ, ᐃᓕᖅᑯᓯᑐᖃᖏᓐᓄᓪᓗ ᐃᓄᐃᑦ ᓄᓇᓕᖕᓂ ᐱᒻᒪᕆᐅᓂᖃᕐᒪᑕ ᐅᖓᑖᓄᐊᖃᑕᖅᑐᓂ ᑭᒡᓕᖃᕐᕕᐅᓂᖓᓂᒃ.

ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓐᓂᓗ ᐱᒻᒪᕆᐅᓂᖃᕐᓂᖓ ᐊᒻᒪᓗ ᐱᒻᒪᕆᐅᔪᓂᒃ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ

ᐊᒥᔅᓱᐊᓗᖕᓂ ᐊᕐᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᐃᑦ

ᑐᕙᐃᔪᐃᑦᑐᖅ ᐊᔾᔨᖃᖏᓚᖅ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᑕᐃᒪᖓᑦ ᓯᑯᑐᖃᐃᓐᓇᐅᓂᖓᓄᑦ, ᑕᐃᒪᖓᓂᒃ ᐱᒋᐊᓚᐅᖅᓯᒪᔪᓂᒃ ᑎᑎᕋᕈᑕᐅᕙᓪᓕᐊᖃᑕᓕᖅᑎᓪᓗᒋᑦ 1979-ᒥᓂᒃ, ᐅᑭᐅᖅᑕᖅᑐᕐᒥ ᐊᐅᔭᒃᑯᑦ ᓯᑯᖃᖅᑎᒋᕙᖕᓂᖓ ᒥᑭᒡᓕᒋᐊᖅᓯᒪᓕᖅᑐᖅ ᑕᒫᓃᑦᑐᒥᒃ 30% ᐳᓴᓐᑎᐅᑉ ᐅᖓᑖᓂᒃ (Meier et al. 2014, Perovich et al. 2019). ᓯᑯᓕᑐᖃᓗᓂᖏᑦ (ᐅᖓᑖᓂ ᓯᑕᒪᓂᒃ 4 ᐊᕐᕋᒍᓕᖕᓂᒃ), ᐊᖏᓂᖃᖅᐸᓚᐅᖅᑐᓂᒃ 33% ᐳᓇᓐᑎᖏᓃᑦᑐᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑕᕆᐅᕋᓗᐊᑕ ᓯᑰᐃᓐᓇᐅᓂᖓᓂᒃ ᑕᐃᔅᓯᒪᓂ ᒫᔾᔨᒥ 1985-ᖑᓚᐅᖅᑐᖅ, ᐊᖏᓂᖃᑐᐃᓐᓇᓕᓚᐅᖅᐳᖅ ᑕᒫᓃᓕᖅᑐᒥᒃ 1.2% ᐳᓴᓐᑎᓕᖕᒥᒃ, ᒫᔾᔨᒥ 2019-ᒥ. ᐊᒥᐊᑯᓯᒪᓂᖓᓂ ᐱᑐᖃᐅᓂᖅᐹᖑᔪᓂᒃ ᓯᑯᖃᕐᓂᖓᓂ ᐊᒻᒪᓗ

ᐱᔾᔪᓂᓂᖅᐸᖑᓂᖏᓐᓂᒃ ᐱᓗᐊᖅᑐᒥᒃ ᑕᒪᓃᑉᐳᑦ ᑐᕙᐃᔪᐃᑦᑑᓂᖓᓂ (Tilling et al. 2018, Perovich et al. 2019).

ᓯᑯᐃᓐᓈᓗᓂᖏᑦ ᒪᕿᐃᓕᖃᖓᔫᖕᓂ ᐊᔾᔨᒌᖏᓚᑦ ᓯᑯᖃᕐᓂᖏᓐᓂᒃ: ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓵᖅᓯᒪᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᒥᔅᓯᓂᒃ ᐊᕐᕋᒍᒐᔅᖕᓂ ᓯᑯᑐᖃᓕᖕᓄᑦ. ᓯᕗᓪᓕᕐᒥ ᓯᑯᕙᓪᓕᐊᖃᑕᕐᒪᑕ ᑕᕆᐅᕐᒥ ᐃᒪᖓ ᖁᐊᖅᐸᓪᓕᐊᓕᕋᖓᑦ, ᑲᑎᑉᐸᓕᐊᖃᑦᑕᖅᓯᓂ ᐊᑕᑦᑕᖅᐸᓪᓕᐊᓗᑎᒃ ᓵᑐᔾᔭᕈᖃᑦᑕᖅᓱᑎᒃ ᐅᕙᓗᓐᓃᑦ ᓂᓚᐅᓕᖃᑦᑕᖅᓱᑎᒃ (NSIDC 2018). ᓯᕗᓪᓕᕐᒥ ᓯᑯᓯᒪᔪᑦ ᐅᑭᐅᒃᑯᑦ ᐱᑕᖃᕐᓂᖅᓴᐅᕙᒃᑐᑦ ᑕᒫᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑕᕆᐅᖑᓂᐊᓗᐊᓂ ᐃᒪᕐᓂ, ᑕᒪᐃᓐᓂᓕᒫᖅ, ᑕᒪᐃᓐᓂᓕᒫᑲᓴᒡᓗᓐᓃᑦ ᐊᐅᒃᐸᒃᑐᓂᒃ ᓯᑯᐃᑦ ᑕᐃᒪᐃᓕᖓᔪᑦ,ᐊᐅᔭᒃᑯᑦ. ᑕᐃᒪᐃᓕᖓᓗᐊᖅᐸᖏᒻᒪᓪᓕ ᑕᒪᐃᓐᓂᑲᓴᒃ ᑐᕙᐃᔪᐃᑦᑑᕐᓂᕐᒥ, ᑕᕆᐅᕋᓗᑉ ᖁᖓᓂ ᓯᑯᖃᐃᓐᓇᕋᒥ ᐃᓱᐊᓂ ᑐᕙᐃᔭᕐᕕᐅᔪᓐᓇᖃᑦᑕᕐᓂᖓᓂᒃ. ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᑦ ᑭᓯᐊᓂᓕ, ᓯᕗᓪᓕᕐᒥ ᓯᑯᓯᒪᔪᑦ ᐱᑕᖃᓕᖃᑦᑕᖅᐳᑦ ᐅᑭᐅᖅᐸᓪᓕᐊᓂᕐᒥᒃ, ᓱᕋᖅᑎᖃᑕᐃᓐᓇᖅᑐᒥ ᓯᑰᓂᐊᓗᐊᓂ, ᑕᐅᕙᓂᓗ ᑲᖏᖅᑐᒐᔭᐅᕙᖕᓂᖏᓐᓂ. ᓯᑯᑐᖃᐃᑦ ᑕᐃᒪᐃᓕᖓᕙᒃᐳᑦ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᓚᐅᖅᑐᑦ ᓯᑯᐃᔭᖅᓯᒪᓂᖏᓐᓂᒃ ᐃᓚᖓᒍᑦ ᐊᐅᔭᐅᓚᐅᖅᑐᖅ, ᐊᒻᒪᓗ ᓄᑖᒥᒃ ᓯᑯᕙᓪᓕᐊᒃᑲᓐᓂᓕᕆᓪᓗᑎᒃ ᐊᑖᒍᑦ (Barber et al. 2010, NSIDC 2018). ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᑦ ᐊᒻᒪᓗ ᐊᒥᓱᕈᖅᓯᒪᔪᓂ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐅᓕᖅᑐᑦ ᒧᐊᔾᔨᒌᖃᑦᑕᖏᑦᑐᑦ ᑕᐅᑐᖏᓐᓂᓗ ᖃᓄᐃᓕᖓᓂᖏᓐᓂ, ᐃᓕᑕᕆᔭᐅᔪᓐᓇᖃᑦᑕᖅᑐᑦ ᐊᔾᔨᒌᖏᓐᓂᖏᓐᓄᑦ. (Johnston 2017). ᐱᓗᐊᑲᓐᓂᖅᑐᒥᒃ, ᐱᒻᒪᕆᐊᓗᖏᒥᒃ ᐊᔾᔨᒌᖏᓐᓂᖃᖅᐳᑦ ᐊᒥᓱᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐅᓂᖏᓐᓂ ᐱᔾᔪᑕᐅᓂᖓᓄᑦ ᐅᕐᑰᓇᖅᓯᕙᓪᓕᐊᓕᕋᖓᑦ ᐊᒻᒪᓗ ᖃᓪᓕᐅᑎᓯᒪᓕᖅᑐᓂᒃ ᐃᕗᕙᖓᒪᑕ, ᓇᒡᒍᑎᓪᓗᑎᒃ ᓯᑯᑐᖃᐅᓂᖏᓐᓂ, ᑕᐃᒪᐃᓕᖓᓕᖃᑦᑕᖅᑐᓂ ᖁᕐᓗᖕᓂᖅᑕᖃᓕᕋᖓᑦ. ᓯᑯᑐᖃᐃᓐᓇᐅᓗᐊᖅᐳᖅ ᑕᒪᓐᓇ ᑐᕙᐃᔪᐃᑦᑐᖅ, ᐱᑕᖃᕋᓗᐊᓇᓪᓗᑎᑦ ᓯᕗᓪᓕᕐᒥ ᐊᑕᐅᓯᕐᒥᒃ ᐊᕐᕌᒍᐃᓐᓇᕐᒥ ᓯᑯᓯᒪᓂᖏᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᑕᒫᓂ Nansen Sound-ᒥ ᐊᒻᒪᓗ ᑲᖏᖅᑑᓂᖏᓐᓂ ᐊᐅᓱᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᑕ ᐱᖓᓐᓇᖅᐸᓯᖓᓂ (CIS 2016a, 2016b). ᓯᑯᑐᖃᐃᓐᓇᐅᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᓇᓗᓇᖃᖏᑦᑕᖏᑦᑐᑦ ᐱᑕᖃᕐᕕᐅᕙᖕᓂᖏᓐᓄᑦ ᖁᕐᓗᖅᑐᓕᖕᓂᒃ ᐅᕐᑯᒪᐃᑦᑐᒻᒪᕆᖕᓂᒃ, ᑕᐃᒪᐃᓕᖓᓕᕐᓂᑰᔪᓂᒃ ᐊᒥᓱᓂᒃ ᐊᕐᕌᒍᓴᓗᖕᓂ ᑕᕆᐅᒥ ᐃᓚᕙᓪᓕᐊᖃᑕᐃᓐᓇᖅᑐᓂᒃ ᓴᖏᓂᖃᕐᓂᖓᓄᑦ ᐃᒪᐅᑉ ᐊᐅᓚᕙᖕᓂᖓ ᐊᒻᒪᓗ ᖃᓪᓕᐅᑎᕙᓪᓕᐊᖃᑕᐃᓐᓇᕐᓂᖏᓐᓄᑦ. ᖃᐅᔨᒪᔭᐅᕗᕐᓗᓐᓃᑦ ᐊᒥᓱᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐃᓐᓇᐅᓂᖓᓄᑦ, ᑕᒪᓐᓇ ᑐᕙᐃᔪᐃᑦᑐᖅ ᓴᐳᓐᓂᐊᖅᑕᐅᕆᐊᕈᒪᓕᓚᐅᖅᑐᖅ.

ᐊᔾᔨᒌᖏᑦᑑᑏᑦ ᓯᑯᐃᑦ ᐃᔾᔪᓗᐊᕈᓐᓃᖃᑦᑕᖅᐳᑦ ᓯᓚᒥ ᐊᐅᒃᐸᓪᓕᐊᕐᕕᐅᔪᓐᓇᖅᓯᔭᕋᖓᑦ, ᑕᒪᓐᓇᓗ ᑕᐃᒪᐃᓕᔪᐃᓐᓂᖅᐹᖑᓗᓂ ᐊᒥᓱᓂᒃ ᐊᕐᕌᒍᓴᓂ ᓯᑯᓯᒪᔪᑐᖃᐅᓂᖏᓐᓂ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᕕᒃᑐᓪᓗᓯᒪᓂᖏᓐᓂ ᖁᓕᓈᓕᖅᓯᒪᔪᓂ ᓯᑯᒥ ᐃᕗᓯᒪᓂᖏᓐᓂ ᐱᑕᓕᐊᓗᖕᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ (Johnston 2017). ᖁᕐᓗᕐᓂᖃᕐᓂᖏᓐᓂ ᐱᒻᒪᕆᐊᓗᖏᒥᒃ ᐱᔾᔪᑕᐅᕙᒃᑐᑦ ᓯᑯᔫᓐᓇᖃᑦᑕᕐᓂᖓᓄᑦ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᓯᑯᐃᓐᓈᓗᓕᖃᑦᑕᕐᓂᖓᓄᑦ. ᐱᒻᒪᕆᐊᓗᔪᓐᓇᖅᑐᒥᒃ ᕿᓚᒥᐊᓗᕈᓐᓇᖅᑐᒥᒃ ᓯᑯᒧᑦ ᐃᔾᔪᔪᐊᓗᓕᕈᑕᐅᕙᒃᑐᖅ ᑕᐅᕗᓇᓕᒫᖅ ᑭᒡᓕᐊᒍᑦ ᓯᒡᔭᖅᐸᓯᐊᒍᑦ ᑕᐅᕙᖓᑦ Fram Strait ᓯᑯᐊᓂᒃ ᑕᐅᕗᖓ ᑎᑭᓪᓗᒍ M’Clure Strait-ᒧᑦ (Bourke and Garrett 1987).

ᐃᔾᔪᔪᐊᓗᐃᑦ ᓯᑯᑐᖄᓕᐅᑦ ᐱᕙᓪᐊᓕᖃᑦᑕᖅᑐᑦ ᑐᕙᐃᔪᐃᑦᑐᒥ ᐊᓄᓇᒧᓪᓗ ᑕᕆᐅᕐᒥᓗ ᐃᒪᐅᑉ ᐊᐅᓚᐃᓐᓇᕐᓂᖓᓄᑦ ᐊᔭᐅᖃᑦᑕᒻᒪᑦ ᑕᕆᐅᕐᒥ ᓯᑯᒥᒃ ᑕᒪᐅᖓ ᑯᐃᓐ ᐃᓕᓴᐱᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᑯᑭᑦᑐᐃᑦ ᐅᐊᖕᓇᖓᓄᑦ (Howell et al. 2008, Moore et al. 2019). ᑐᕙᐃᔪᐃᑦᑐᕐᒥᖕᒑᖅᑐᓂᒃᑕᐅᖅ ᐊᕐᕌᒍᓴᖕᓂ ᓯᑯᑐᖄᓗᖕᓂᒃ ᐊᐅᓚᕙᓪᓕᐊᖃᑕᕗᑦ ᓂᒋᐊᓄᑦ ᑕᐅᕗᖓ ᑯᐃᓐ ᐃᓕᓴᐃᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓄᑦ ᑕᐅᕗᖓᓗ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒪᖓ ᑕᒪᐅᓇᖄᓚᐅᖅᓯᑎᒃ Nares Strait ᐃᒫᒍᑦ (Howell et al. 2008, Rasmussen et al. 2011). ᓂᒋᖅᐸᓯᖕᒧᖓᐅᕙᓪᓕᐊᔪᑦ ᓯᑯ ᑕᐃᑯᓄᖓ ᑯᐃᓐ ᐃᓕᓴᐃᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓄᑦ ᑕᐃᒪᐃᐸᒃᑐᑦ ᐊᐅᔭᐅᓂᖓᓂ, ᓄᖃᖓᓕᓇᓪᓗᑎᒃ ᐅᑭᐊᒃᓵᒃᑯᑦ, ᐅᑭᐅᒃᑯᓪᓗ ᑕᒪᒃᑯᐊ ᐳᑦᑕᔪᑦ ᓯᑯᐃᑦ ᓯᒥᒃᓯᕙᓪᓕᐊᖃᑕᕐᒪᑕ ᐃᒪᕐᒥᒃ ᑕᐅᕙᓂ ᑯᐃᓐ ᐃᓕᓴᐃᐅᑉ ᕿᑭᖅᑕᒐᓴᖓᓂ ᑕᒫᓃᖃᑕᐅᔪᑦ ᑐᕙᐃᔪᐃᑦᑐᒥ ᐱᖃᓗᔭᐃᑦ ᐳᑐᖃᓕᓲᖑᓂᖏᓐᓄᑦ (Melling 2002). ᑕᒪᐃᓐᓂᑲᓴᒃ ᐊᕐᕋᒍᓂ, ᐊᕐᕌᒍᓴᖕᓂ ᓯᑯᑐᖄᓗᐃᑦ ᓂᒋᖕᒧᐊᐸᓪᓕᐊᔪᑦ ᑕᐅᕙᖓᑦ Lincoln Sea ᑕᕆᐅᖓᓂᒃ (ᑲᓇᖕᓇᖅᐸᓯᖓᓂ ᑐᕙᐃᔪᐃᑦᑑᑉ), ᓴᓐᓂᕈᑎᐅᑉ ᐃᒪᖓᓄᖓᐅᕙᓕᐊᕙᒃᑐᑦ ᑕᐅᕗᓈᖃᑦᑕᖅᓱᑎᒃ Nares Strait ᐃᒫᒍᑦ ᓄᖃᖓᓕᖃᑦᑕᖅᑐᑦ ᓯᒥᒃᑕᐅᓯᒪᓂᖏᓐᓄᑦ ᓯᑯᒧᑦ ᐱᖃᓗᔭᐃᑦ ᐳᑐᖃᓕᓲᖑᓂᖏᓐᓄᑦ ᐅᑭᐅᖑᓂᖓᓂ ᑕᒫᓂ ᐅᐊᖕᓇᖅᐸᓯᖓᓂ ᐊᑯᑭᒃᑐᕐᒥᐅᑦ ᕿᑭᖅᑖᓗᖕᒥᐅᓪᓗ ᐊᑯᓐᓂᖓᓂ Smith Sound ᑕᓯᐅᔭᕐᔪᐊᖓᑕ ᐅᐊᖕᓇᖅᐸᓯᖓᓂ

ᑕᐃᒪᐃᓂᐊᖅᑐᓂᒃ ᑭᓯᐊᓂ ᐅᐱᕐᖏᓕᕐᒥᒃᐸᑦ ᑐᕙᐃᔭᖅᐸᓪᓕᐊᓗᓂᓗ ᓂᒋᖅᐸᓯᐊᓄᑦ ᓯᑯᐃᑦ ᓅᐸᐸᓪᓕᐊᓕᕐᒥᒍᑎᒃ ᑕᐅᕗᖓ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒫᓄᑦ ᑲᔪᓯᔪᓐᓇᖅᓯᓕᓵᕐᓂᐊᕐᒪᑕ (Dumont et al. 2009, Ryan and Münchow 2017). ᓯᑯᐃᑦ ᐱᖃᓗᔭᐃᑦ ᐱᑐᖃᓕᓲᖑᓂᖏᓐᓄᑦ ᑕᐅᕙᓂ ᐊᑯᑭᒃᑐᕐᒥᐅᑦ ᕿᑭᖅᑖᓗᖏᐅᓪᓗ ᐊᑯᓐᓂᖓᓂ ᑕᓯᐅᔭᕐᔪᐊᕐᒥ Smith Sound-ᒥ ᐊᒻᒪᓗ ᐊᒫᑦᓲᑦ ᐃᒫᓂ ᖃᐅᔨᒪᔭᐅᓂᖅᐸᖑᕗᑦ ᐊᒻᒪᓗ ᓇᖏᐊᕐᓇᓛᖑᕙᒃᓱᑎᒃ ᑕᐅᕙᓂ ᑯᐃᓐ ᐃᓕᓴᐱᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓂ ᐱᖃᓗᔭᐃᑦ ᐳᑐᖃᓕᕋᒐᑕ. ᐊᔾᔨᒌᖏᑦᑎᐊᖃᑦᑕᕐᓂᖏᓐᓄᑦ ᖃᓄᐃᓕᕙᓪᓕᐊᖃᑦᑕᕐᓂᖏᑦ ᐊᕐᕋᒥᒃ ᐊᕐᕋᒍᒧᑦ ᓇᓗᓇᐃᒃᑯᑕᐅᕙᒃᑐᑦ ᐱᐅᓯᑐᖃᕐᒥᒍᑦ ᐱᑕᖃᕈᓐᓃᕈᓐᓇᖃᑕᕐᓂᖏᓐᓄᑦ; ᐃᓚᖏᓐᓂ ᐊᕐᕋᒍᓂ ᑕᐃᒪᐃᓕᖓᓕᖅᐸᓐᖏᒻᒥᖓᑕ. ᓱᕋᖅᑎᖅᐸᓪᓕᐊᓕᖃᑕᕐᓂᖏᓐᓂ ᐱᖃᓗᔭᐃᑦ ᐳᑐᖃᓕᖅᑎᓪᓗᒋᑦ ᑕᐅᕙᓂ Nares Strait-ᒥ, ᐅᐊᖕᓇᖅᐸᓯᖓ ᐊᑯᑭᒃᑐᕐᒥᐅᑦ ᕿᑭᖅᑖᓗᖏᐅᓪᓗ ᐊᑯᓐᓂᖓᓂ ᑕᓯᐅᔭᕐᔪᐊᖓᓂ, ᑕᒫᓂ ᐊᕐᕋᒍᒐᓴᐅᓯᒪᔪᓂ 1968-2014 ᓴᕿᐅᒪᔪᖅᖅᐳᖅ ᓯᑯᐃᑦ ᐱᖃᓗᔭᐃᑦ ᐳᑐᖃᓕᖅᐸᓚᐅᕐᓂᖏᓐᓂᒃ ᑕᐃᒪᖓᑦ ᑭᓯᐊᓂ ᑎᑭᓪᓗᒍ ᐊᕐᕋᒍᒧᑦ 1990, ᑭᖑᓂᐊᒍᓪᓗ ᑕᐃᒫᒃ ᐋᕿᐅᒪᖃᑕᕈᓐᖅᐸᓪᓕᐊᓕᓚᐅᖅᓱᑎᒃ ᐊᒥᓱᐃᖅᓱᑎᒃ, ᐱᔾᔪᑕᐅᓚᐅᖅᑐᑦ ᐊᒃᑐᐃᓂᕐᒥᒃ ᑕᕆᐅᕐᒥ ᓯᑯᒥᒃ ᐊᒻᒪᓗ ᐆᒪᔪᖃᕈᓐᓇᕐᓂᖏᓐᓂ ᑕᐅᕙᓂ ᐅᐊᖕᓇᖅᐸᓯᐅᑉ ᐃᒫᓂ North Water-ᒥ. (Barber and Massom 2007, Blais et al. 2017).

ᑭᓯᐊᓂᓕᑦᑕᐅᖅ, ᐊᓯᖏᓐᓂ ᐃᒪᕐᓂ ᓯᑯᐃ ᐱᖃᓗᔭᐃᑦ ᐳᑐᖃᓕᖃᑕᕐᓂᖏᑦ ᑕᐃᒪᐃᓕᖓᓕᖃᑕᐃᓐᓇᕐᓂᐊᕐᓂᕋᖅᑕᐅᔪᓐᓇᖏᓐᓂᕗᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ. ᑕᐃᒫᑦ ᐋᕿᒐᒪᓕᕋᔭᖏᒃᑯᑎᒃ ᐳᑐᓯᒪᓕᖃᑕᕐᓗᑎᒃ, ᓲᕐᓗ ᐃᒪᕐᓂ ᐅᑯᓇᓂ Sverdrup Channel, Peary Channel, Prince Gustaf Adolf Sea, ᐊᒻᒪᓗ Ballantyne Strait, ᐃᒪᖏᓐᓂ, ᑕᒪᐃᓐᓂᒃ ᑲᑎᓪᓗᒋᑦ ᓂᕈᑐᓂᓕᖕᓂ 275 km ᑭᓛᒥᑕᓂᒃ – ᑕᐃᒪᐃᑦᑐᑎᑐᑦ ᑲᓇᖕᓇᖅᐸᓯᖓ ᐊᑯᑭᑦᑐᐃᑦ ᓯᑯᒧᑦ ᐃᖏᕐᕋᕕᐅᕙᖕᓂᖏᓐᓄᑦ - ᓅᑐᓐᓇᕋᓱᒋᔭᐅᒋᕗᑦ ᓯᑰᓂᓕᖕᒧᑦ ᑕᒫᓂ (1 M sq km ᑭᐸᐋᒃᑐᒥᒃ) ᐊᕐᕋᒍᑕᒫᖅ ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ. ᐊᐅᒃᐸᓪᓗᐊᔪᒻᒪᕆᐊᓘᒍᓂ ᐊᒡᕕᐊᕐᑯᑕᐅᕙᒃᑐᖅ ᐱᒻᒪᕆᐊᓗᖏᒃ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᖅᐳᖅ ᑐᕙᐃᔪᐃᑦᑐᕐᒧᑦ. ᑕᒪᒃᑯᐊ ᐊᒡᕕᐅᖃᑕᐅᕙᖕᓂᖏᑦ ᐊᐅᑉᐸᓪᓕᐊᖏᓐᓇᑐᑦ ᓯᑯᐃᑦ ᐱᒻᒪᕆᐊᓗᖏᒃ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᖅᐳᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ.

ᑕᒪᓐᓇ ᑐᑭᓯᓇᖅᐳᖅ ᑕᐃᔭᐅᓂᖓ "ᑐᕙᐃᔪᐃᑦᑐᖅ" ᐃᓄᒃᑎᑐᑦ ᐊᒻᒪᓗ ᐊᕐᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᓗᓪᓕᑦ ᑕᐅᕙᓂᒻᒪᑕ ᐱᑕᖃᓲᖑᔪᑎᒃ ᑕᒪᓂ ᖁᓕᐅᔪᓂᒃ ᑕᒪᐃᓐᓂᒃ ᐊᒥᓲᓂᓕᖕᒥᒃ 9-ᖏᓂᖃᑦᑕᖅᑐᓂᒃ (CIS 2020). ᐅᑭᐅᒃᑯᑦ, ᐊᐅᓚᔪᓐᓇᕐᓂᖏᑦ ᓯᑯᐃᑦ ᐊᔾᔨᒌᖏᑐᓂᒃ ᐅᖓᓯᕐᓂᖃᕈᓐᓇᕐᒪᑦ ᓄᓇᒥᒃ ᓯᒡᔭᒥᒃ, ᑭᓯᐊᓂ ᐊᕕᒃᓯᒪᒋᕗᑦ ᓯᓚᑎᐊᓃᑦᑐᓂ ᓄᓇᐃᑦ ᓯᒡᔭᖃᕐᕕᐅᓂᖏᓐᓂ ᖁᑦᑎᒃᑐᒥᒃ ᕿᑭᖅᑕᒐᓴᖕᓂ, ᐊᑕᓪᓗᑎᒃ (10-ᓂᒃ/10-ᓂᒃ) ᓯᑯᐊ, ᐱᑕᓕᐊᓘᕙᒃᑐᑦᒃ ᐊᕐᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᓗᖕᓂᒃ ᐊᑯᓯᒪᔪᓂᒃ ᑕᒪᒃᑯᓂᖓᓗ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕋᒍᒥ ᓯᑯᓯᒪᔪᓂᒃ (Melling 2002). ᖃᑯᑎᒃᑯᑦ ᐊᓄᓇᓂᕐᒧᑦ ᓯᑯᑐᖃᐃᑦ ᓅᖃᑕᕐᒥᔪᑦ ᑭᒡᓕᐊᓂᒃ/ᓯᓈᓂᒃ ᓯᕐᒥᐊᓗᐃᑦ ᐊᑕᔪᑦ ᓄᓇᒧᑦ ᑕᐃᒪᖓᑦ ᒪᒃᐱᖃᑕᕐᓂᖏᓐᓂᒃ ᐋᔪᕋᖃᓕᖅᓱᑎᒃ (ᓄᓇᕐᔪᐊᑉ ᐅᑭᐅᖅᑕᖅᑐᓂᖓᓂ ᓯᑯᓯᒪᓂᕐᒥ ᐋᔪᕋᖅᑕᕐᕕᐅᕝᕙᖕᓂᖏᓐᓂ) ᑕᒪᐅᓇ ᓯᓈᒍᖓᖃᑕᖅᑐᓂ ᑭᒡᓕᐊᒍᑦ. ᑕᒪᓐᓇ ᐋᔪᕋᖃᓕᖃᑕᕐᓂᖓ ᐃᓛᓐᓂᒃᑯᑦ ᐅᖓᓯᒃᓂᖃᖅᑎᒋᔪᓐᓇᖅᐳᑦ 2000 ᑭᓛᒥᑕᐃᑦ ᐅᖓᑖᓂᒃ ᑕᐅᕙᖓᖅᑐᒥᒃ ᐊᒪᑦᓱᑦ ᐃᒫᓂᒃ ᑕᒪᐅᖓ ᐅᐊᖕᓇᖅᐸᓯᖓᓂ ᓄᕗᐊᓄᑦ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓄᑦ (Stirling and Cleator 1981, Fissel et al. 1984a,1984b, Smith Jr. and Barber 2007). ᐅᑭᐅᒃᑯᑦ ᓂᒡᓚᓱᒡᔪᐊᕐᓂᕐᒥ, ᑕᒪᒃᑯᐊ ᐋᔪᕋᑦ ᕿᓚᒥᐊᓄᒃ ᖃᒥᐅᑕᓕᖃᑦᑕᖅᑐᑦ ᓴᑦᑐᑯᓗᖏᒃ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕋᒍᒥ ᓯᑯᓯᒪᔪᒥᒃ. ᐊᐅᔭᒃᑯᑦ, ᑕᒪᒃᑯᐊᑦᑕᐅᖅ ᑕᕆᐅᕐᒥ ᓯᑯᖃᕈᓐᓲᖑᖏᒥᔪᑦ. ᐋᔪᕋᖃᕐᓂᖏᑦ ᓴᕿᖃᑕᕆᕗᑦ ᖃᐅᔨᒪᓗᑕᐅᕙᒃᑐᑦ ᐆᒪᔪᖅᑕᖃᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐅᐱᖓᒃᑯᑦ,ᐊ ᐅᔭᒃᑯᓪᓗ (Barber et al. 2010). ᑭᓯᐊᓂᓕᑕᐅᖅ, ᐱᒻᒪᕆᐅᓂᖏᑦ ᑕᕆᐅᑉ ᐊᑎᐊᓄᖓᑦ ᐊᕙᑎᒥᐅᑕᖏᓐᓄᓪᓗ ᑐᕙᐃᔪᑦᑐᒥ ᓱᓕ ᖃᐅᔨᒪᔭᐅᖏᓚᑦ.

ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ

- ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕋᒍᓂᒃ ᓯᑯᑐᖃᐃᑦ ᐊᒻᒪᓗ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕋᒍᒥ ᓯᑯᓯᒪᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖏᓐᓂᒃ ᑕᐃᑰᓇ ᕐᑯᒻᒧᐊᒃᑎᑕᐅᓯᒪᔪᑎᒍᑦ ᐅᖓᓯᒃᑐᒥᒃ ᐊᔾᔨᐅᓕᕈᑎᖃᖅᑐᓄᑦ RADARSAT-ᑯᑦ ᑲᓇᑕᒥ ᓯᑯᓕᕆᔨᑦ ᑎᑎᕋᖅᐸᓪᓕᐊᕙᒃᑕᖏᓐᓄᑦ ᐊᑐᐃᓐᓇᐅᕗᑦ ᑎᑎᖃᕐᑯᑎᖏᑦ ᐊᒻᒪᓗ ᒪᕿᖕᓂᒃ ᒫᓐᓇᓵᖅ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂᒃ ᑐᑭᓯᔭᐅᓇᓱᒃᑎᒃ ᓯᑰᑉ ᖃᓄᐃᓕᖓᕙᓪᓕᐊᓂᖓ ᐃᓚᖏᓐᓂ ᑐᕙᐃᔪᐃᑦᑐᓂᕐᒦᑦᑐᓂᒃ (Howell and Brady 2019, Moore et al. 2019). ᑭᓯᐊᓂᓕᑦᑕᐅᖅ, ᑐᐊᕕᐊᖑᔭᕆᐊᖃᖅᐳᑦ ᐃᓕᑕᕆᔭᐅᔪᓐᓇᕐᓂᖏᑦ

ᖃᓄᐃᓕᖓᕙᖕᓂᖏᑦ ᓯᑯᕙᖕᓂᖏᑦ, ᓯᑯᔪᓐᓇᖃᑕᕐᓂᖏᓐᓄᓪᓗ ᐱᔾᔪᑕᐅᕙᖕᓂᖏᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂᒃ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ ᐃᔾᔪᑎᒋᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖏᓐᓂᒃ, ᐱᐅᓯᒋᐊᕈᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᓐᖏᓂᖏᓐᓂ ᓯᓕ ᖃᐅᔨᒪᔭᐅᕙᒌᕈᑎᒃᓴᖃᕈᓐᓇᕐᓂᕐᒧᑦ ᐃᑲᔪᕈᓐᓇᕐᓂᕐᒧᓪᓗ ᓯᕗᓂᒃᓴᒥ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓕᐊᓂᖓᓄᑦ ᓇᓚᐅᑖᕈᑕᐅᓯᒪᓕᖅᑐᑦ ᐊᑐᓕᖅᑕᐃᓕᒪᑎᑕᐅᕙᓪᓕᕈᓐᓇᕐᓂᖏᓐᓄᑦ.

- ᓯᕐᒦᑦ ᓄᓇᒧᑦ ᐊᑕᔪᑦ ᓯᑯᐃᑦ ᑕᐅᕙᓂ ᑯᐃᓐ ᐃᓕᓴᐱᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓂ, ᓄᖃᖅᑎᑦᑎᕙᒃᑐᑦ ᓯᑯᒥᒃ ᑲᔪᓯᔪᓐᓇᐃᓕᑎᑦᑎᓂᖅ ᐊᓯᐊᓄᑦ ᓂᒋᖅᐸᓯᖓᑕ-ᑲᓇᖕᓇᖓᓄᑦ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᐊᕐᕌᒍᓕᒫᑲᓴᒃ, ᑕᒻᒪ ᐱᒻᒪᕆᐊᓘᓪᓗᓂ ᐱᔾᔪᑕᐅᕙᖕᒪᑦ ᐱᑕᖃᖃᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐃᓱᒪᒋᔭᐅᓂᖏᑦ ᑭᖑᓪᓕᐅᔪᒫᕐᓂᖅ ᓯᑯᓯᒪᔪᑑᓕᕈᒫᕐᓂᖅ. ᐊᕐᕋᒍᒥ ᐃᒪᕐᓂ ᓯᑯᕙᓪᓕᐊᖃᑕᕐᓂᖓ ᐊᒻᒪᓗ ᓱᕋᖅᑎᖅᐸᓪᓕᐊᓕᖃᑕᕐᓂᖏᑦ ᐱᖃᓗᐃᑦ ᐳᑐᓖᑦ ᑕᑯᔭᐅᖃᑦᑕᐃᓐᓇᖅᑑᒐᓗᐊᑦ, ᑐᑭᓯᐅᒪᖏᓗᐊᖅᐳᑦ. ᑕᒪᓐᓇ ᑐᑭᓯᐅᒪᔭᐅᖏᓂᖓ ᐊᔪᕈᑕᐅᕙᒃᑐᖅ ᑐᖓᕕᖃᕈᓐᓇᕐᓂᖅ ᑕᐅᑐᖑᐊᕈᓐᓇᕐᓂᖅ ᓯᕗᓂᒃᓴᖓᓂᒃ ᑐᕙᐃᔪᐃᑦᑑᑉ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ.

- ᐋᔪᕋᓕᖕᓂᒃ ᓯᑯᐃᔪᐃᑐᓕᖅᐸᒃᑐᑦ ᐃᓛᓐᓂᒃᑯᑦ ᐱᑕᖃᓕᖃᑕᕆᕗᑦ ᐊᑯᓐᓂᖏᓐᓂ ᑕᕿᓂ ᓄᕕᐱᕆᒥ ᐊᒻᒪᓗ ᒪᐃᒥ ᑕᐅᕙᓂ ᐃᒫᓂ Lincoln Sea-ᒥ, ᑭᓯᐊᓂ ᖃᐅᔨᒪᔭᐅᖏᑦᑐᑦ ᖃᖓ ᐊᒻᒪᓗ ᓱᒧᑦ ᑕᐃᒪᐃᓕᕙᖕᒪᖔᑦ, ᐋᔪᕋᕈᓕᖅᐸᓪᓕᐊᖃᑕᕐᓂᖏᑦ, ᐅᕝᕙᓗᓐᓃᑦ ᐱᑕᖃᕈᑕᐅᔪᓐᓇᕐᓂᖏᑦ ᐆᒪᔪᓄᑦ ᐱᕈᖅᑐᓄᓪᓗᓐᓃᑦ.

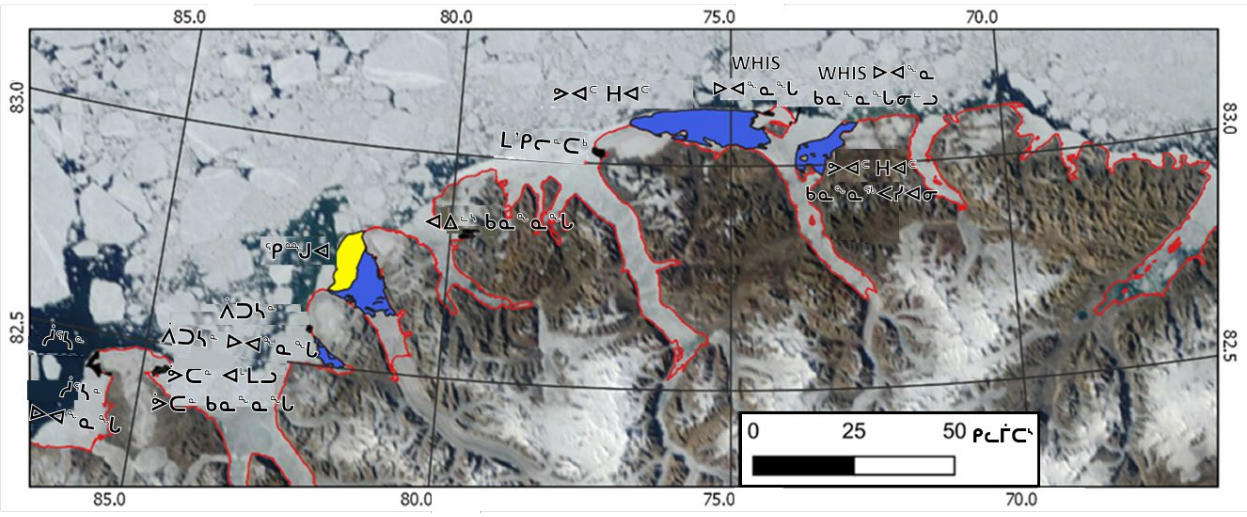
ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓯᑯᓯᒪᐃᓐᓇᕐᓂᖏᑦ

ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊ, ᐊᑭᑦᑎᐊᖓᓃᑉᐳᖅ ᑐᕙᐃᔪᐃᑦᑐᑉ ᑕᒪᓐᓇᑑᓪᓗᓂᓗ ᑲᓇᑕᓕᒫᒥ ᓯᑯᓯᒪᐃᓐᓇᖅᑐᖅ ᓄᓇᖓᓄᑦ ᐊᑕᔪᓂᒃ ᓯᕐᒥᒥᒃ (Dowdeswell and Jeffries 2017, Mueller et al. 2017). ᑕᒪᒃᑯᐊ ᓯᑯᐃᓐᓇᐅᓃᓇᓗᐅᑦ ᐃᓚᒋᔭᐅᔪᕕᓂᐅᕗᑦ ᑕᐃᔅᓯᒪᓂᑑᖃᓗᒃ ᐊᖏᔪᐊᓘᕙᐅᖅᑐᓂᒃ, ᑲᑎᖓᔪᐊᓘᓚᐅᖅᑐᓂ ᓯᑯᐃᓐᓈᓘᕙᐅᖅᑐᓂᒃ (8,900-ᓂᒃ km² ᑭᐸᐅᓇᒃᑐᓂ ᑭᓛᒥᑕᖃᓚᐅᖅᑐᓂ) ᑕᒫᓃᑉᐸᓚᐅᖅᑐᓂ ᑕᒪᐃᓐᓂ ᐃᓗᓐᓇᖓᓂ ᐅᐊᖕᓇᖅᐸᓯᖓᓂ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂᒃ 5,500-ᖑᓚᐅᖅᓯᒪᔪᓂ ᐊᕐᕌᒍᓚᐅᖅᑐᓂ, ᑎᑭᓪᓗᒍ ᑕᒪᐅᖓ ᐱᒋᐊᓕᓴᕐᓂᖏᓐᓄᑦ ᐊᕐᕋᒍᖏᑦ 1900-ᖏᑦ (Vincent et al. 2001, England et al. 2008, Mueller et al 2017). ᑕᐃᒪᖓᓂᒃ, ᓯᑯ ᓴᒡᓕᕙᓪᓕᐊᓯᒪᕗᖅ, ᐊᒻᒪᓗ ᐱᖃᓗᒃᑯᓗᕈᖅᓯᒪᓪᓗᑎᒃ ᓯᑯᐃᓐᓇᐅᓂᑐᖃᓘᓗᐊᑦ; ᒪᓕᖃᑕᖅᑐᓂ ᐆᓇᕐᓂᖅᓴᐅᖃᑕᓕᕐᓄᖓᑦ ᓯᓚ ᐊᐅᔭᒃᑯᑦ, ᐱᔾᔪᑕᐅᖃᑕᕐᒪᑕ ᑕᐃᒪᖓᑦ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᕐᒧᑦ ᑲᓇᑕᐅᑉ ᓄᓇᓗᐊᓄᑦ ᐊᑕᔪᒥ (Braun 2017). ᑕᒫᖓᑦ ᐊᕐᕌᒍᒥᒃ 1906-ᒥᒃ ᑕᒪᐅᖓ 2015-ᒧᑦ, ᓯᑯᓯᒪᓂᑐᖃᓗᐊ ᐊᐅᔪᐃᑦᑑᑉ ᓯᑯᐊᓗᐊᓂᒃ ᒥᑭᒡᓕᒋᐊᖅᓯᒪᑎᒋᓕᖅᐳᖅ ᑕᒫᖓᑦ 8,597-ᓂᒃ ᑕᒪᐅᖓ 535-ᓄᑦ km² ᑭᐸᐅᓇᒃᑐᓄᑦ ᑭᓛᒥᑕᓕᖕᓄᑦ, ᐱᔾᔪᑕᐅᓯᒪᔪᑦ ᐱᑕᖃᕐᓂᓐᓄᑦ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᐃᑦ ᓯᑕᒪᐃᑦ 4 ᐱᒻᒪᕆᐅᓂᖏᑦ (Ward Hunt, Ward Hunt East, Milne, ᐊᒻᒪᓗ Petersen) ᐊᒻᒪᓗ 9-ᓂᒃ ᐱᒻᒪᕆᐅᖏᓐᓂᖅᓴᐅᓂᕋᖅᑕᓯᐅᔪᓂ ᓯᑯᓯᒪᓂᐊᓗᖕᓂ ᓯᕐᒥᓕᖕᓂᒃ (< ᒥᑭᓐᓂᖅᓴᐅᔪᓂᒃ 10 km² ᑭᐸᐅᓇᒃᑐᓂᒃ ᑭᓚᒥᑕᓕᖕᓂᒃ) (Ward Hunt Northwest, Ward Hunt North, M'Clintock, Petersen North, Wooton, Wooton East, Ayles East, Serson, ᐊᒻᒪᓗ Serson East) ᓯᕐᒦᓐᓇᐅᔪᓂᒃ ᓯᑯᓯᒪᔪᐊᓗᖕᓂᒃ (Mueller et al. 2017). ᑕᐃᓐᓇ ᐊᖏᓂᖅᐹᖑᔪᖅ ᐊᒥᐊᒃᑯᒋᔭᖅ ᓯᑯᓯᒪᓂᐊᓗᒃ ᑕᐅᕙᓃᑉᐳᖅ Ward Hunt-ᒥ (224 km², ᑭᐸᐅᓇᒃᑐᓂ ᑭᓚᒦᑦᑐᓂᒃ ᐊᖏᓂᓕᒃ, ᑕᑯᔭᒃᓴᖅ 2-ᒥ) ᑖᒃᑯᐊ ᑕᒪᕐᒥᒃ ᐃᓚᓗᒍᓗᒍ Ward Hunt East ᑲᓇᖕᓇᖓᓂ ᓯᑯᓯᒪᓂᐊᓗᐊ ᓯᕐᒥᒃ ᐊᒻᒪᓗ ᐱᖓᓱᑦ ᐱᒻᒪᕆᐅᖏᓂᓴᐃᑦ ᓯᑯᓯᒪᓂᐊᓗᖏᑦ, ᒫᓐᓇᐅᔪᖅ ᐃᓚᒋᔭᐅᕗᑦ ᖁᑦᑎᓂᖅᐹᒥ ᑲᓇᑕᓕᒫᒥ ᒥᖑᐃᖅᓯᕐᕕᖕᒧᑦ (ᒥᖑᐃᖅᓯᕐᕕᓕᕆᔨᑦ ᑲᓇᑕᒥ 2009, Mueller et al. 2017). ᑕᐅᕙᓂᑦᑕᐅᖅ ᓯᑯᐃᓐᓇᐅᓂᓕᐊᓗᒋᕗᖅ M'Clintock Inlet Lᒃᓕᓐᑖᒃ ᑲᖏᖅᑐᐊᓂ ᑕᐅᕙᓂᖃᑕᐅᔪᐃᓐᓇᐅᔪᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ (ᑕᑯᔭᒃᓴᖅ 2).

ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᓂ ᓯᑯᐃᓐᓇᓗᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥᑕᐅᖅ ᐱᑕᖃᕐᕕᐅᔪᑦ ᖁᐱᕐᕈᕐᓂᒃ ᐱᓗᐊᖅᑐᒥᒃ ᐃᒪᕐᒥᓱᖑᔪᓂ ᑕᐃᔭᐅᔪᓂᒃ cyanobacteria (Vincent et al. 2004, Jungblut et al. 2017). ᖁᐸᐱᕈᐃᓐᓇᐅᓂᖏᑦ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᑕ ᓯᑯᓯᒪᓂᖓᓂ ᐊᕐᕋᒍᒥ 2001–2002 ᓇᓚᐅᑖᖅᑕᐅᓯᒪᓚᐅᖅᑐᖅ ᐱᑕᖃᕐᕕᐅᓂᖅ ᑕᒫᓂ 34 Gg-ᓂᒃ ᐃᒪᕐᒥᐅᑕᐅᔪᓐᓇᖅᑐᓂᒃ (Mueller et al. 2006) ᐊᒻᒪᓗ ᑕᐅᕙᓂ Ward Hunt ᓯᑯᓯᒪᓂᐊᓗᐊᓂ

ᓯᕐᒥᖓᓂ ᐊᕐᕋᒍᑕᒫᖅ ᐱᑕᕐᕕᐅᓚᐅᕐᓂᖏᑦ ᑐᑭᓕᐅᕈᑕᐅᓚᐅᖅᑐᑦ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᐃᒪᐃᓕᖓᑎᒋᔪᓂᒃ 108 g C m^{-2} y^{-1} (Mueller et al. 2005). ᐊᒻᒪᑕᐅᖅ ᓱᓕ, ᑕᒫᓂ ᐊᕐᕋᒍᒥ 2001-ᒥ, ᑕᐃᒃᑯᓇᓂ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖅᐹᖑᔪᓂ ᓯᑯᓐᓂᓈᓗᖏᓐᓂ ᓯᕐᒥᖏᓐᓂᓗ, Ward Hunt-ᒥ ᐊᒻᒪᓗ ᓄᖑᓕᖅᑐᒥᒃ ᑕᐅᕙᓂ Markham-ᒥ, ᐊᑐᓂ 10% ᐳᓴᓐᑎᓂᒃ ᐊᒻᒪᓗ 44% ᐳᓴᓐᑎᓂᒃ ᖃᖓᓃᑦᑐᓂ ᐱᑕᖃᕐᕕᐅᔪᓐᓇᕋᓱᒋᔭᓚᐅᖅᑐᑦ ᖁᐸᐱᕈᖃᕐᕕᐅᔪᓐᓇᕐᓂᖅ (Mueller et al. 2006). ᐊᖏᔫᑎᐅᓂᖅᓴᐃᑦ ᐃᓚᖏᑦ ᑕᒫᓃᖃᑕᓚᐅᖅᑐᑦ ᓯᑯᐃᓐᓈᐅᓂᐊᓗᕙᓚᐅᖅᑐᒥᒃ ᓯᕐᒥᖏᓐᓂᒃ ᐱᑕᖃᕈᓐᓃᓚᐅᖅᑐᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᖁᐱᕙᓪᓕᐊᖃᑕᕐᓂᖏᑦ ᐆᔭᖅᐸᓪᓕᐊᓗᑎᒃ ᐱᖃᓗᔭᕈᖅᐸᓪᓕᐊᓚᐅᖅᑐᑦ ᐊᕐᕋᒍᓂ ᑕᒫᓂ 2008–ᒥᒃ 2012-ᒧᑦ ᑎᑭᓪᓗᒍ (Mueller et al. 2008, Vincent et al. 2011, Mueller et al. 2017).

ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓯᑯᓯᓂᐊᓗᐊᑦ ᓯᕐᒦᓪᓗ ᓇᔪᒐᓇᔭᐅᕙᒃᐳᑦ ᑕᐃᒃᑯᓄᖓ ᐊᒥᔾᔨᖏᓗᐊᓕᕐᓂᕋᖅᑕᐅᓯᒪᔪᓄᑦ ᖃᖅᑯᓪᓗᐃᑦ ᑲᓇᑕᒥ ᐆᒪᔪᓂ ᐊᒥᔾᔨᖏᓗᐊᓕᖅᑐᓂ. ᑕᒪᒃᑯᐊ ᖃᕐᑯᓪᓗᐃᑦᑕᐅᖅ ᐃᓕᑕᓇᔭᐅᓯᒪᒋᕗᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᓕᖕᓂ (ᖃᐅᓯᐃᑦᑐᕐᒥ ᐊᒻᒪᓗ ᐊᐅᓯᐃᑦᑐᕐᒥ) ᐊᒥᔾᔨᔪᓐᓂᖅᐸᓪᓕᐊᓂᖏᓐᓂᒃ. ᖃᖅᑯᓪᓗᐃᑦ ᐅᓪᓗᖃᔨᖑᔪᑦ ᓄᓇᑕᖕᒥ ᖁᓛᓂ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓯᑯᐃᓐᓇᐅᓂᖏᓐᓂ, ᓂᕿᖃᐃᓐᓇᔨᖑᓪᓗᑎᒃ ᐃᒪᕐᒥᐅᑕᓂᒃ ᐊᑭᓂᐊᓂ ᓯᑯᐃᓇᐅᓂᐊᓗᑉ ᓯᕐᒦᓗ (J. Provencher, ECCC, pers. comm.).



ᑕᑯᑎᕐᑎᒋᐊᕈᑦ 2: ᓇᓃᓂᖏᑦ ᓯᑕᒪᐃᑦ 4 ᐱᒻᒪᕆᐅᓂᕋᖅᑕᐅᔪᑦ (ᐅᖓᑕᓃᑦᑐᑦ > 10 km^2 ᑭᑉᐸᕆᒃᑐᓂ ᑭᓛᒥᑕᓕᖕᓂᒃ ᐊᖏᓂᓛᑦ ᑐᖑᔪᖅᑑᕗᑦ;) ᐊᒻᒪᓗ ᑕᐃᒃᑯᐊ 9-ᖑᔪᑦ ᐱᒻᒪᕆᐅᖏᓂᖅᓴᐅᓂᕋᖅᑕᐅᔪᑦ ᒥᑭᓂᖅᓴᐃᑦ (ᒥᑭᓐᓂᖅᓴᐃᑦ < 10 km^2 ᑭᑉᐸᕆᒃᑐᓂ ᑭᓛᒥᑕᓕᖕᓂᒃ ᐊᖏᓂᓛᑦ; ᕿᕐᓂᖅᑑᓪᓗᑎᒃ); ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓯᑯᐃᓇᐅᓂᐊᓗᐃᑦ ᓯᕐᒦᓛᓪᓗ ᑕᒫᓂ ᐊᕐᕋᒍᒥ 2015 (Mueller et al. 2017). ᓯᑯᓐᓂᓈᓗᓚᐅᕐᓂᕐᒥᒃ ᓯᕐᒥᓛᓪᓗ ᑕᒪᓐᓂ ᐊᕕᑦᑐᐊᓗᓚᐅᖅᐳᑦ ᐱᖃᓗᔭᕈᖅᓱᑎᒃ ᑕᐅᕙᖓᑦ Milne-ᒥᒃ ᑕᒫᓂ ᐃᓱᐊᓂ ᔪᓚᐃᑉ 2020-ᑉ ᑕᑯᒃᓴᐅᒋᕗᖅ ᖁᖅᓱᖅᑐᒥᒃ. ᑕᒫᓂ ᔪᓚᐃ 26, 2020 MODIS-ᑯᓐᓄᑦ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᓂᖏᑦ ᐱᖁᑎᒋᔭᐅᕗᖅ ᐊᒥᑲᓕᑲᒥᐅᑦ ᓯᓚᓕᓇᔨᓐᓄᑦ ᐊᒻᒪᓗ ᐊᓂᕐᓂᖃᖏᑦᑐᓕᓇ ᕝᕕᖓᓄᑦ ᓄᓇᖓᓂ-NASA-ᑯᓐᓄᑦ: ᑕᒪᓐᓇ ᐅᐊᑦᒥᒃ Ward Hunt-ᒥ ᓯᑯᐃᓈᐅᓂᐊᓗᕗᖅ.

ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ

- ᐆᒪᔪᖃᕐᕕᐅᕙᒃᑐᖅ ᑕᒪᓐᓇ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᖏᑦ ᓯᕐᒥᓛᓪᓗ ᑎᖕᒥᐊᕐᓂᒃ, ᐱᓗᐊᖅᑐᒥᒃ ᓇᐅᔭᕙᕐᓂᒃ, ᑲᓇᑕᒥ ᐃᓚᒋᔭᐃᑦ ᐊᒥᔾᔨᖏᓗᐊᓕᕐᓂᕐᒧᑦ ᐆᒪᔪᕐᓄᑦ, ᖃᐅᔨᒪᔭᐅᑦᑎᐊᖏᑦᑐᑦ ᑎᑎᕋᕈᑕᐅᓯᒪᖏᓗᐊᒧᑦ. ᖃᐅᔨᒪᔭᐅᖏᑦᑎᐊᒻᒪᓇᖕᓂᖃᖅᐳᑦ ᑖᒃᑯᓂᖓ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᐊᒥᔾᔨᓂᖏᓐᓂᒃ, ᓇᒧᖓᐅᔾᔨᖑᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐆᒪᑯᑖᒍᓐᓇᕐᓂᖏᑦ ᑕᓇᐅᕐᒥᐅᑕᓂᒃ ᓂᕿᒃᓴᖃᕈᓐᓇᕐᓂᖏᓐᓂ ᓯᔭᒧᑦ ᖃᓂᓐᓂᖏᓐᓂ ᐃᒪᕐᓂᒃ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ.

- ᖃᐅᔨᒋᐊᖅᑕᐅᑎᐊᕆᐊᖃᖅᑐᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ ᓱᒃᑲᓕᔪᐊᓗᖏᒃ ᓯᑯᐃᓐᓇᐅᓂᖏᑦ ᓯᕐᒦᓪᓗ, ᐊᔾᔨᖃᖃᑕᖏᓂᖏᓐᓂᒡᓗ ᐆᒪᔪᐃᓪᓗ ᖁᐱᕈᐃᓪᓗ ᐱᑕᖃᓲᖑᓂᖏᑦ ᐊᒻᒪᓗ ᐊᑕᓂᖏᑦ ᓱᒡᔭᖅᐸᓯᐅᓄᖓᑦ ᐊᕙᑎᒥᐊᓄᑦ ᐊᕙᑎᒥᐅᑕᐅᓂᕐᓄᓪᓗ ᑐᕙᐃᔪᐃᑦᑐᒥ ᑐᑭᓯᐅᒪᔭᑦᑎᐊᕈᓐᓇᕐᑯᓪᓗᒋᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ ᐊᕙᑎᖓᓂᒃ ᓯᑯᐃᓐᓇᐅᓂᖓᓂᒃ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓇᕐᓂᖏᓐᓂᒃ ᐆᒪᔪᖃᕐᕕᐅᓂᖏᓐᓄᑦ ᖁᐸᐱᕈᖃᕐᕕᐅᓂᖏᓄᓪᓗ.

ᑐᕙᐃᔪᐃᑦᑐᒥ ᑲᖏᖅᑐᐃᑦ

ᐅᐊᓐᓇᖓᓂ ᐊᐅᔪᐃᑦᑑᑉᑦ ᕿᑭᖅᑖᔫᐊᓂ ᑲᖏᖅᑐᐊᓗᒃ

ᓄᓇᖅᐱᐅᓂᖓ ᑐᕙᐃᔪᐃᑦᑐᒥ ᐃᓕᑕᕐᓇᖅᐳᖅ ᐊᒥᓱᒐᓴᐅᓂᖏᓐᓄᑦ ᑲᖏᖅᑐᒐᐃᑦ. ᐊᒥᓱᒐᓴᐃᑦ ᑲᖏᖅᑐᒐᓴᐃᑦ ᑕᑯᓂᖃᕈᓐᓇᖅᑐᑦ ᐅᖓᑖᓂ 50 ᑭᓛᒥᑕᓕᖕᓂᒃ ᓄᓇᖅᐱᐅᓂᓄᑦ ᐅᐊᖕᓇᖅᐸᓯᖓ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᔫᐊᓂᒃ, ᑕᐃᑯᓂᖓ ᐃᓚᖃᖅᑐᓂᒃ ᑕᐃᔭᐅᔪᓂᒃ Clements Markham Inlet, Markham Fiord, Disraeli Fiord, McClintock Inlet, Yelverton Inlet ᐊᒻᒪᓗ Philipps Inlet, ᐃᓚᖏᓪᓗ ᑕᒪᒃᑯᓇᖓᑦ ᒫᓐᓇᓵᖅ ᐱᑕᖃᕐᕕᐅᒋᓪᓗᑎᒃ ᓯᑯᓐᓇᐅᓂᕐᒥᒃ ᐊᒻᒪᓗ ᑕᐃᒪᐃᓂᖏᓐᓄᑦ ᐊᕙᑎᖏᓐᓂᒃ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓐᓂᒡᓗ. ᐊᖏᔪᐊᔫᓗᒐᓗᐊᖅᑎᓪᓗᒋᑦ ᐊᒻᒪᓗ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᒐᓗᐊᖅᑎᓪᓗᒋᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ, ᐊᖏᓂᖏᓐᓂᓗ, ᖃᐅᔨᒪᔭᐅᑦᑎᐊᖏᓗᐊᖅᐳᑦ ᑕᒪᐃᓐᓂᑲᓴᒃ ᑕᒪᒃᑯᐊ ᓱᒐᔭᖅᓯᖕᒦᓐᓂᖏᑦ, ᑕᐃᒃᑯᐊᔫᓐᓃᑦ ᖃᐅᔨᒪᔭᐅᖏᒻᒪᑕ ᖃᐅᔨᔭᐅᓴᕋᐃᓐᓂᖅᓴᐅᔪᓐᓇᕐᓂᖏᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᑕᕆᐅᖓᑕ ᐃᒫᓂ ᖃᓄᐃᓕᖓᖏ ᓇᑎᐊᓂ/ᐃᖅᑲᖓᓂ ᐊᒻᒪᓗ ᐃᑎᔫᓂᖏᑦ ᐃᒪᐃᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ - ᒥᑭᔪᒥᒃ ᖃᐅᔨᒪᔭᖃᕐᕕᐅᒐᓛᑐᐃᓐᓇᖅᑐᑦ ᐅᕝᕙᓗᓐᓃᑦ ᖃᐅᔨᒪᔭᐅᖏᑦᑎᐊᒻᒪᕆᒃᑐᑦ (ᑕᑯᓗᒋᑦ Charette et al. 2020).

ᐃᓚᐃᓐᓇᖏᑦ ᑕᒪᒃᑯᐊ ᖃᐅᔨᒋᐊᕐᕕᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᐃᓚᒋᔭᐅᑐᐃᓐᓇᒧᑦ ᐊᓯᖏᓐᓄᑦ ᖃᐅᔨᓴᖅᑕᐅᔪᓄᑦ ᐱᓕᕆᐊᖑᓂᖏᓐᓄᑦ, ᑕᒻᒪᑯᐊᓗ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᓐᓂ ᐃᓕᑕᕆᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᐊᔾᔨᐅᖏᓂᖏᑦ ᐊᕙᑎᖏᑦ ᐊᒻᒪᓗ ᐊᕙᑎᒥᐅᑕᕆᔭᐅᕙᖕᓂᖏᑦ. ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᑕᐅᕙᓂ Taconite Inlet ᑲᖏᖅᑐᐊᓂ ᐱᑕᖃᑦᑎᐊᖅᐳᖅ ᐊᔾᔨᒌᖏᑑᑎᐅᔪᓂᒃ ᐱᐊᖕᓂᖃᕐᓂᖏᓐᓂᒃ ᐃᔾᔪᓂᖃᕐᓂᖏᓐᓂᒡᓗᓐᓂᑦ ᐃᒪᖏᑦ ᑕᕆᐅᖃᕐᓂᖓᓄᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐃᒪᐃᑦ ᑐᑭᒧᐊᖕᓂᖏᓐᓂ ᖁᒻᒧᑦ, ᐊᒻᒪᓗ ᐊᔾᔨᐅᖏᑦᑐᒥᒃ ᓂᒡᓚᓱᖕᓂᖃᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᓂᕐᓂᖃᖏᓗᐊᕐᓂᖓᓄᑦ ᐃᒪᐃᑦ ᐃᖃᖓᓂ ᓇᑎᐊᓂ ᑕᕆᐅᑉ (Ludlum 1996). ᑕᐅᕙᓂ Disraeli Fiord ᑲᖏᖅᑐᖓᓂ ᑕᓯᖃᓱᖑᕗᖅ ᑕᕆᐅᖓᓂᑐᒥᒃ ᑕᕆᐅᖃᖏᓐᓂᐅᔪᒥᒃ ᖁᐸᐱᕈᖃᕐᕕᐅᕙᒃᑐᒥᒃ (Van Hove et al. 2001) ᑕᒪᓐᓇ ᐱᑕᖃᕈᓐᓃᕐᕕᐅᓚᐅᖅᑐᖅ ᖁᐱᔪᐊᔫᖕᒪᑦ/ᐊᕕᒃᑐᐊᔫᖕᒪᑦ ᐋᔪᕋᕐᒧᑦ ᑕᐅᕙᓂ Ward Hunt-ᒥ ᓱᑯᐃᓐᓇᔫᐊᓂᒃ ᓱᕐᒥᓕᖕᒥᓗ ᑕᒫᓂ ᐊᕐᕋᒍᒥ 2002–2003 (Mueller et al. 2003). ᓱᕋᖅᑎᖅᐸᓪᓕᐊᓂᖓᓄᑦ Ward Hunt-ᒥ ᓱᑯᐃᓐᓈᔫᓂᖓ ᓱᕋᖅᑎᖅᐸᓪᓕᐊᓂᖓᓂ ᐊᔾᔨᓕᐅᖅᑕᐅᓪᓗᐊᓚᐅᖅᓯᒪᔪᑦ ᐊᔾᔨᓕᐅᕈᑎᒃᑯᑦ ᑕᒫᓂ 2011–2012 (NEIGE 2020), ᑕᒪᓐᓈᓗ ᐊᖏᔫᐊᓗᖕᒥᒃ ᓱᑯᑐᖃᐃᓐᓇᐅᓂᐊᓗᓕᖅᑐᖅ ᐃᔾᔪᔪᒻᒪᕆᒃ ᓱᑯᐃᓐᓈᓗᒃ ᐊᑕᔪᐊᓗᒃ ᓄᓇᒧᑦ ᑲᖏᖅᑐᖓ ᓂᕿᒃᓴᖃᕐᕕᐅᕙᓕᑐᖅ ᐊᕙᑎᖓᓂ ᐊᕙᑎᒥᐅᑕᖏᓄᓪᓗ, ᒪᒃᐱᖅᓯᒪᓕᓵᕐᓂᖓᓄᑦ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓄᑦ, ᐃᓚᖏᓐᓂᒃ ᐊᑕᔪᓂᒃ ᓄᓇᒧᑦ ᑕᐅᕙᓐᓂ Ward Hunt ᓱᑯᐃᓐᓇᐅᓂᐊᓗᐊᓂ.

ᖃᐅᔨᓴᖅᑕᐅᕙᓪᓕᐊᖏᓐᓇᖅᐳᖅ ᑕᐅᕙᓐᓇ Milne Fiord-ᒥ ᑲᖏᖅᑐᐊᓗ ᑕᐅᕙᓃᒻᒪᑦ Milne-ᐅᑉ ᓱᑯᑐᖃᐃᓐᓈᓗᐊᓂ, ᑕᐅᕙᓃᑦᑐᕐᓗ ᑕᕆᐅᖑᖏᑦᑐᖅ ᑕᓯᖅ, ᑕᐅᕙᓂᓗ Milne-ᒥ ᓱᑯᐃᓐᓇᐅᓂᐊᓗᐊᓂᒃ, ᒫᓐᓇᓵᖑᓯᒪᔪᕐᓗ, ᐊᕙᓗᐊᓂ ᐃᒪᐃᑦ ᑰᒃᐸᓪᓕᐊᓂᖏᒃ ᒪᕐᕉᖕᓄᑦ ᐊᕕᒃᓯᒪᓂᖏᑦ ᐃᒪᐃᑦ. ᑕᒫᓂ ᐃᒪᐅᓂᖓᓂ ᑲᖏᖅᑐᖓᓂ ᓴᖏᔪᒥᒃ ᐋᕿᒋᐊᖅᑕᐅᓯᒪᕙᒃᑐᑦ ᐱᑕᖃᕐᓂᖓᓄᑦ ᓱᑯᑐᖃᐃᓐᓇᐅᓂᐊᓗᐊᓄᑦ Milne-ᒥ, ᐱᔾᔪᑕᐅᖃᑦᑕᕐᒪᑦ ᑕᕆᐅᖑᖏᑦᑐᒧᑦ ᑕᓯᕐᒧᑦ ᐃᖏᒥᒍᖓᕙᖕᓂᖅ ᑕᒫᓂ ᖃᓂᒋᔭᖓᓂ 10 m ᒦᑕᓕᖕᓂᒃ (Hamilton 2016, Veillette et al. 2008, Thaler et al. 2017). ᑲᖏᖅᑐᖓᓂ ᐃᒪᖅ ᐊᔾᔨᒋᕙᖕᒋᒻᒪᒍ ᑕᐅᕙᖓᑦ ᐃᑎᔫᓂᕐᒥ ᐃᒪᕐᒥ ᑕᒫᓂ ᐃᑎᓂᓕᖕᒥᒃ 50 m ᒦᑕᓕᖕᒥᒃ (ᑐᑭᓕᒃ ᑕᒪᓐᓇ ᐃᔾᔪᑎᒋᓂᖓᓂᒃ Milne–ᒥ ᓱᑯᑐᖃᓗᐊᓂᒃ, ᐃᒪᐅᑉ ᐊᑖᓂᓐᓂᖓᓂ) ᐊᒻᒪᓗ ᐊᑖᓂᓐᓂᖓᓂᒃ ᑕᒫᓂ 260 m ᐃᑎᓂᓕᖕᒥᒃ, ᐊᑐᖅᑕᐅᓚᐅᕐᒪᑕ ᑐᑭᓕᐅᕈᑕᐅᕐᓂᒧᑦ ᐱᑕᖃᕐᓂᖓᓂᒃ ᐅᔭᕋᓪᓚᖑᓂᐅᔪᓂᒃ ᐊᑯᓐᓂᖏᓐᓂ ᐊᑕᒍᑦ ᓱᑯᐊᔫᑉ. ᑕᐅᕙᓂ Milne–ᒥ ᓱᑯᑐᖃᓗᐊ ᐊᒻᒪᓗ ᑕᐅᕙᓂ Milne–ᒥ ᓄᓇᒧᑦ ᐊᑕᔪᐊᓗᒃ ᓯᕐᒥᐊᓗᐊ ᐅᕐᑯᒪᐃᓐᓂᕐᒥᓄᑦ ᐊᒻᒪᓗ ᓯᑐᕝᕕᐊᔫᔪᒥᒃ ᓱᕋᖅᑎᖅᓯᒪᑲᑕᕐᒪᑦ,

ᐊᑕᕙᖏᓂᖓᓄᑦ ᐆᓇᕐᓂᖅᓴᐅᖃᑕᕐᓂᖓᓄᑦ ᐊᑦᑏᓐᑎᒃᒥᖓᖅᑐᓂᒃ ᐃᒪᕐᓂᒃ (< 200 m ᐃᑎᓂᓕᖕᓂ) ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᓴᐳᔾᔭᐅᓯᒪᕙᒃᑐᖅ ᓱᑲᓕᔪᒥᒃ ᐊᐅᒃᐸᓪᓕᐊᖃᑕᕐᓂᖓᓂᒃ (Hamilton 2016). ᓯᑯᒧᑦ ᐊᑕᔪᒥᒃ ᖃᐅᔨᓴᕐᕕᖃᖅᐳᑦ ᕿᑎᐊᓃᑐᒥᒃ Milne–ᐅᑉ ᑲᖏᖅᑐᖓᓂ ᐊᒻᒪᓗ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᓯᖏᓐᓂᒃ ᖃᐅᔨᓴᕈᑎᓂᒃ ᐃᒪᕐᒥᒃ, ᐃᒪᐅᓪᓗ ᐊᐅᓚᓐᓂᕆᕙᒃᑕᖓᓂᒃ, ᓴᖏᓂᖓᓂᒡᓗ ᖃᐅᔨᓴᕈᑎᓂᒃ ᑐᑭᓯᕙᓪᓕᕈᑕᐅᓯᒪᔪᑦ ᐱᒻᒪᕆᐅᕙᖕᓂᖏᓐᓂᒃ ᑕᒪᒃᑯᐊ ᓄᓇᒥᐅᑕᐃᓪᓗ–ᐃᒪᕐᒥᐅᑕᐃᓪᓗ ᑕᒫᓂ ᑲᖏᖅᑐᖓᓂ. ᑕᐃᓐᓇ ᑕᕆᐅᖑᖏᓗᑐᕐᓂᖅ ᑕᓯᐅᔪᖅ ᐃᑎᒡᕙᓪᒃᑲᓂᖃᑦᑕᖅᐳᖅ ᐃᓛᓐᓂᒃᑯᑦ ᐊᕐᕋᒍᒥ ᐊᐅᒃᐸᓪᓕᓕᕋᖓᑦ ᐊᕙᓗᐊᓂᒃ ᑰᒡᕕᐅᕙᓪᓕᐊᓂᖓᓄᑦ (Hamilton et al. 2017). ᑕᒪᓐᓇ, ᐊᒻᒪᓗ ᑕᐃᒃᑯᐊ ᖃᐅᔨᔭᐅᓂᖏᑦ ᓯᓚᑖᓄᑦ ᑰᒃᐸᓪᓕᐊᓂᖏᑦ ᐊᑖᒍᑦ Milne–ᐸ ᓯᑯᑐᖃᐅᓂᐊᓗᐊᒍᑦ ᑐᕋᖓᔾᔪᑕᐅᓕᓚᐅᖅᑐᖅ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᒪᓕᒃᑕᐅᔪᓐᓇᕐᓂᖅ ᑐᑭᓯᐅᒪᔭᐅᑦᑎᐊᒃᑲᓐᓂᕈᓐᓇᖅᓯᓗᑎᒃ ᐊᑯᑉᐸᖕᓂᖓᓂᒃ ᑲᖏᖅᑐᖓᓂᒃ ᐃᒪᐃᑦ ᑕᐅᕙᓂ ᑲᖏᖅᑐᖓᓂ ᐅᑭᐅᖑᓂᖓᓂ (Bonneau 2020) ᐊᒻᒪᓗ ᐃᔾᔪᐊᖅᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᑰᒡᕕᐅᕙᓪᓕᐊᓂᖏᑦ ᒫᓐᓇᐅᔪᖅ ᑲᒪᒋᔭᐅᕙᓪᓕᐊᓕᖅᑐᑦ ᑐᑭᓯᔭᐅᑦᑎᐊᑲᓐᓂᕈᒪᓗᑎᒃ ᐊᑕᖃᑎᒌᖕᓂᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᒻᒪᓗ ᑲᖏᖅᑐᖓᓂ ᑕᕆᐅᕐᒥ ᖃᓄᐃᓕᖓᕙᓪᓕᐊᖃᑕᕐᓂᖓᓄᑦ. ᓯᓚᖓ ᑕᒫᓂ ᐆᓇᖅᓯᒋᐊᖅᓯᒪᓕᕐᒪᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᑕᒫᓂ 50–ᖑᓯᒪᓕᖅᑐᓂ ᐊᕐᕋᒍᓂ ᐊᓂᒍᖅᑐᓂ (White and Copland 2019) ᐊᒻᒪᓗ ᑕᐃᒪᐃᓕᕙᓪᓕᐊᖏᓐᓇᕐᓂᐊᖅᓯᓂ ᐱᒻᒪᕆᐊᓘᓕᕈᓐᓇᖅᑐᓂᒃ ᐊᓯᔾᔨᓗᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᑲᖏᖅᑐᖓᑕ ᑰᖃᑕᕐᓂᖓᓄᑦ, ᐊᒻᒪᓗ ᐊᕙᑎᖏᓐᓄᑦ, ᐊᕙᑎᒥᐅᑕᖏᓄᓪᓗ, ᓯᑯᑐᖃᓕᐊᓘᓗᐊᕈᑎᒃ, ᓯᑯᑐᖃᓗᖃᖏᑲᓗᐊᕐᓗᑎᒡᓗᓐᓃᑦ.

ᑕᒪᒃᑯᐊ ᓯᒡᔭᒥ ᑕᐃᒪᐃᓕᖓᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᔭᕆᐊᖃᖅᑐᑦ ᐃᓚᒋᔭᐅᓂᖅ ᑐᕙᐃᔪᐃᑦᑐᒧᑦ ᑕᐃᒪᒃ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᓴᖏᔪᒥᒡᓗᓐᓃᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᖃᑕᕐᓂᖏᓐᓄᑦ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐃᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᓯᒡᔭᒍᑦ ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓄᑦ ᑕᕆᐅᕐᒥᐅᑕᓄᑦ ᓇᔪᒋᕆᔭᐅᔪᓐᓇᖃᑦᑕᖅᓱᑎᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ. ᑕᒪᒃᑯᐊᑦᑕᐅᖅ ᖃᓄᐃᓕᖓᓂᖏᑦ ᓄᓇᐅᓂᕐᒧᑦ ᑕᕆᐅᖑᓂᕐᒧᓪᓗ ᐊᖅᑯᑕᐅᖃᑕᕆᕗᑦ ᐊᐳᒻᒧᑦ ᓯᑰᓪᓗ ᑐᕙᐃᔭᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖓᓄᑦ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂᒃ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓄᑦ, ᑕᒪᒃᑯᐊᓗ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᖁᐱᕐᕈᐃᑦ, ᓂᕿᒃᓴᐃᑦ ᐆᒪᔪᐃᓪᓗ, ᐃᖃᓗᐃᓪᓗ.

ᐊᒥᓱᒐᓴᐃᑦ ᑲᖏᖅᑐᐃᑦ ᑕᒫᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᐃᖃᐅᑎᒋᐊᕈᑕᐅᒋᕗᑦ ᐊᑕᓂᖓᓂᒃ ᑕᕆᐅᑉ ᓄᓇᒧᑦ, ᑕᐃᒃᑯᓄᖓᓗ ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᓯᒡᔭᓄᑦ ᖁᑦᑎᓂᖅᐹᑦ ᑲᓇᑕᓕᒫᒥ ᒥᖑᐃᖅᓯᕐᕕᖓᓄᑦ. ᐃᔾᔪᔪᐊᓗᖏᒃ ᓯᑯᐃᓐᓇᐅᓂᖓ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐊᔭᐅᖅᑕᐅᕙᓪᓕᐊᖃᑦᑕᖅᑐᖅ ᑲᑎᐸᓪᓕᐊᓕᖃᑦᑕᖅᓱᑎᒃ ᑕᐅᕗᓇ ᓄᓇᒧᑦ ᓈᖃᖓᓕᖃᑦᑕᖅᑐᑦ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓄᑦ, ᐊᒻᒪᓗ ᓄᓇᐃᑦ, ᓯᓚᖓ, ᐊᕙᑎᖓ, ᐊᕙᑎᒥᐅᑕᐃᓪᓗ ᑕᒫᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᒥ ᓴᖏᔪᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᕙᒃᑐᑦ ᑕᕆᐅᕐᒥ ᓯᑯᐊᓗᖓᓄᑦ. ᐊᒥᓱᐊᓘᕗᑦ ᑕᓲᑦ ᑕᒫᓃᑦᑐᑦ ᓯᒡᔭᖅᐸᓯᐊᓂ ᐊᑕᔪᑦ ᖃᓄᑐᐃᓐᓇᖅ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᑕᕆᐅᕐᒧᑦ, ᑕᐃᒃᑯᐊ ᐃᒪᐃᔭᖅᐸᓪᓕᐊᖃᑕᕐᓂᖏᑦ ᑕᕆᐅᕐᒧᑦ (ᓲᕐᓗ ᑕᐃᒃᑯᐊ Taconite Inlet-ᒥ ᑕᓲᑦ, Ludlam 1996; Ward Hunt Lake, Bégin et al. 2020), ᐃᓚᖏᓪᓗ ᐃᖃᓗᒃᐱᖃᓲᖑᓪᓗᑎᒃ ᐅᑎᖅᑕᓐᓇᖅᑐᒃᓴᐅᔪᓂᒃ ᑕᕆᐅᕐᒥᒃ ᐃᒪᕐᒥᒃ ᑕᕆᐅᖑᖏᑐᓄᓪᓗ ᐃᒪᕐᓄᑦ (Veillette et al. 2012), ᐊᒻᒪᓗ ᐊᒥᓱᓂᒃ ᐱᑕᖃᕈᓐᓂᕐᕕᐅᕙᓕᐊᓕᖅᑐᑦ ᕐᑯᒻᒧᑦ ᐊᐅᕙᓕᐊᖏᓐᓇᕐᓂᖓᓄᑦ ᓯᒡᔭᕐᒥᒃ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓄᑦ ᑕᐃᒪᖓᑦ ᐊᒥᔅᓲᖏᑦᑐᓂ ᑕᐅᓴᒐᓴᖏᓃᑦᑐᓂᒃ ᐊᕐᕋᒍᓂᒃ, ᑕᕆᐅᕐᒥ ᐃᒪᑐᖃᓗᐃᑦ ᓱᓕ ᐃᑎᓂᖏᓃᑐᑐᖃᐅᖏᓐᓇᖅᓱᑎᒃ ᐃᒪᖓᓂ (Hattersley-Smith et al. 1970).

Nansen Sound/Greely Fiord-ᒥᓗ ᑲᖏᖅᑐᖏᒃ

ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖏᓐᓂ ᐱᒻᒪᕆᐅᓂᖏᑦ ᐃᓚᒋᔭᐅᔪᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᓯᕗᓪᓕᖅᐸᖏᓐᓂᒃ ᖃᔨᐅᓴᖅᑕᐅᓕᕋᒥᒃ, ᐊᒻᒪᓗ ᐃᓕᑕᕆᔭᐅᓯᒪᓪᓗᑎᒃ ᖁᑦᓗᓃ, ᑕᒪᒃᑯ Nansen Sound/Greely Fiord ᑲᖏᖅᑐᖓᓂᑕᐅᖅ ᐃᓱᒪᒋᓕᕆᕗᖅ ᐱᒻᒪᕆᐅᔪᒥᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᖃᑕᐅᔭᕆᐊᖃᕐᓂᖅ. ᑕᒪᓐᓇ ᑲᖏᖅᑐᐊ ᐊᖅᑯᑕᐅᕙᖓᑦ ᓯᑯᐃᔭᕐᕕᐅᕙᖕᓂᕐᒧᑦ ᑕᐅᕙᖕᒫᖅᑐᓂᒃ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂᒃ ᓯᑰᐃᓐᓇᐅᓂᐊᓗᐊᓂᒃ ᓯᒡᔭᖅᐸᓯᖓᓂᒃ ᐊᕙᑎᐊᓂᒃ ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓐᓂᓗ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᓇᓗᓇᐃᖅᑕᐅᔪᓐᓇᖅᑐᒃᓴᐅᓪᓗᑎᒃ ᐊᒥᔅᓱᓄᑦ ᐊᔾᔨᖃᖏᓐᓂᖏᓐᓄᑦ ᑕᕆᐅᖑᓂᖓᓂ ᐊᒻᒪᓗ ᐆᒪᔪᖃᕐᓂᖓᓄᑦ, ᓄᓇᖓᓄᑦ/ᐃᒪᓄᑦ ᖃᓄᐃᓕᖓᓂᖓᓄᑦ ᑕᐃᒪᐃᓕᖓᔪᓂᒃ ᑕᒪᒃᑯᓄᖓ ᐊᒃᑐᖅᑕᐅᓯᒪᓂᕐᒧᑦ. ᑕᒪᓐᓇ ᐊᕕᒃᑐᖅᓯᒪᓂᐅᑉ ᐊᕙᓗᐊᓃᑐᖃᕐᒪᑦ ᒪᕐᕉᖕᓂᒃ

ᐃᓚᒋᔭᐅᔫᖕᓂᒃ ᐱᒻᒪᕆᐅᔫᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᒥ ᐊᑐᓕᕐᑯᔭᓕᐅᕈᑕᐅᓯᒪᔪᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᕐᑯᔭᐅᓂᖅ (ᑕᐅᕙᓐᓇ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕋᒍᓂᒃ ᓯᑯᑕᐃᓐᓇᐅᓪᓗᓂ ᐊᐅᓚᐃᓐᓇᖅᑐᒥᒃ ᐊᒻᒪᓗ ᓯᑯᑐᖃᕐᒥᒃ ᐊᑕᔪᓂᒃ ᓄᓇᒧᑦ ᓯᕐᒦᑦ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑕᖓᓂ), ᐃᓛᒍᑦ ᐊᔪᕐᓇᖏᓐᓂᖅᓴᐅᕙᒃᑐᑦ ᑎᑭᑕᐅᔫᓇᖃᑕᕐᓂᖅ ᓴᓂᐊᓂ ᐊᓯᖏᓐᓂᒃ ᑐᕙᐃᔪᐃᑦᑑᓂᕐᒥ, ᐱᒻᒪᕆᐅᔪᒥᒡᓗ ᐊᒃᑐᖅᑕᐅᓯᒪᖏᓂᖓᓂᒃ ᖃᐅᔨᒪᔭᐅᓂᖃᖅᓯᓂ ᑕᐃᑲᓂ ᖃᓂᒋᔭᖏᓃᑦᑐᒥ ᑲᓇᑕᐅᑉ ᐊᕙᑎᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᕐᕕᖓᓂ ᔪᐊᓈᑲᒥ. ᐅᓪᓗᖃᕐᕕᐅᔫᓇᕐᓂᖏᑦ ᑕᕆᐅᕐᒥ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᓂ ᑎᖕᒥᐊᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᔪᑦ ᐱᒻᒪᕆᐅᓂᖃᕐᓂᖅ ᑕᐅᕙᓂ (eBird 2017). ᐃᓄᐃᑦ ᐃᓚᒋᔭᐅᓂᖏᓐᓂ ᐊᒻᒪᓗ ᑐᑭᓯᓂᐊᕐᕕᐅᖃᑕᕐᓂᖏᓐᓂ ᑲᑎᒪᓪᓗᑎᒃ, ᑕᒪᓐᓇ ᐃᓕᑕᕆᔭᐅᓚᐅᖅᑐᖅ ᓄᓇᓕᖕᒥᐅᑕᓄᑦ ᐱᒻᒪᕆᐅᓂᖃᕐᓄᖓᓄᑦ ᖁᑦᑎᒃᑐᒥᒃ ᑐᒃᑐᓄᑦ ᓯᑯᒃᑯᑦ ᐃᑳᕆᐊᖅᑐᕐᕕᐅᕙᖕᓂᖓᓄᑦ ᐱᐅᕆᑉ ᑐᒃᑐᖏᓐᓂᒃ, ᐃᓕᑕᕆᔭᐅᓯᒪᓗᑎᒃ ᑕᐃᒃᑯᐊ ᐆᒪᔪᐃᑦ ᐊᑖᒍᑦ ᑲᓇᑕᒥ *ᐆᒪᔪᐃᑦ ᐊᒥᓲᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦᒪᓕᒐᖅᑎᒍᑦ.* (R. Eagleson, Parks Canada Agency, pers. comm.).

Lady Franklin Bay/Archer Fiord ᑲᖏᖅᑐᐊᓂ ᑕᕆᐅᕐᒥᐅᑕᓂᒃ ᐆᒪᔪᖃᕐᕕᐅᓂᖓ

ᓇᑦᑏᑦ, ᐅᔾᔪᐃᑦ ᐊᒻᒪᓗ ᓇᓄᐃᑦ ᐱᑕᖃᖅᐳᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᑭᓯᐊᓂ ᐊᒥᓲᓂᕆᕙᒃᑕᖏᑦ, ᓇᓃᖃᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐊᕙᑎᒥ ᐱᑕᖃᕐᕕᒋᕙᒃᑕᖏᑦ ᑕᒫᓂ ᐊᖏᔪᒥᒃ ᖃᐅᔨᒪᔭᐅᖏᓪᓕᑦ (COSEWIC 2008, Stephenson and Hartwig 2010). ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᑕᑯᔭᐅᖃᑕᕐᓂᖏᑦ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐱᓗᐊᖅᑐᒥᒃ ᑐᖓᕕᖃᖅᓯᒪᖓᑕ ᑕᐅᕙᓃᖃᑕᕐᓂᕐᒧᑦ ᑕᑯᔭᐅᖃᑦᑕᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓇᓱᒃᑎᐅᕙᒃᑐᓄᑦ ᑎᑎᕋᖅᓯᒪᔭᑐᖃᖏᓐᓂᒃ ᐊᕐᕋᒍᖏᑦ 1700 ᐃᓱᓕᑉᐸᓪᓕᐊᓕᖅᑎᓪᓗᒋᑦ ᐊᒻᒪᓗ ᐱᒋᐊᕐᓕᓵᕐᓂᖏᓐᓂ ᐊᕐᕋᒍᐃᑦ 1900-ᖏᑦ, ᐃᓚᖃᓚᐅᕐᒥᔪᓂᒃ ᑎᑎᕋᕈᑕᐅᓯᒪᔪᓂᒃ ᐊᐃᕕᕐᓂᒃ ᐊᒻᒪᓗ ᑐᒫᓕᖕᓂᒃ ᕿᓚᓗᒐᕐᓂᒃ (Greely 1886, Peary 1910).

ᓯᕗᓪᓕᕐᒥ ᐱᐅᓯᑎᔭᐅᓕᓚᐅᖅᑐᖅ ᑕᐃᒪᖑᐊᒋᐊᕐᓂᐊᓕᖅᑐᓂ ᑕᕆᐅᕐᒥᐅᑕᓂᒃ ᐆᒪᔪᓂᒃ ᖃᐅᔨᓴᖃᑦᑕᕐᓂᖅ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᑕᒫᓂ ᐊᕐᕋᒍᒥ 2018-ᒥ, ᑕᐅᕙᓂ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᑕ ᐅᐊᖕᓇᖓᓂ ᐊᒻᒪᓗ ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᑲᓇᖕᓇᖓᓂ, ᖃᐅᔨᔭᐅᓚᐅᖅᑐᑦ ᐊᐃᕕᖃᕐᓂᖏᓐᓂᒃ ᑕᐅᕙᓂ Archer Fiord-ᒥ, ᐅᖓᓯᖕᓂᖅᓴᒻᒪᕆᖕᒥᒃ ᐅᐊᖕᓇᐅᓂᖓᓂᒃ ᖃᐅᔨᒪᔭᐅᕙᒃᑐᑐᖃᐅᔪᓂᒃ ᐱᑕᖃᕐᕕᐅᕙᖏᓂᖏᓐᓂᒃ (Yurkowski et al. 2019). ᑕᒪᒃᑯᐊ ᑕᑯᔭᐅᖃᑕᕐᓂᖏᑦ ᓇᓗᓇᐃᖅᑕᐅᑦᑎᐊᑲᓂᓚᐅᖅᑐᑦ ᑭᖑᓂᐊᒍᑦ ᖃᐅᔨᓴᖅᑕᐅᓕᕐᒥᒐᒥᒃ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ, ᐊᕐᕋᒍᒥ 2019-ᒥ, ᖃᐅᔨᕝᕕᐅᓚᐅᕐᒥᔪᓂᒃ ᐱᑕᖃᓱᖑᓂᖏᓐᓂᒃ ᑐᒫᓖᑦ ᕿᓚᓗᒐᐃᑦ ᐊᒻᒪᓗ ᐊᑕᐅᓯᕐᒥᒃ ᐅᑭᐅᓕᖕᒥᒃ ᐱᐊᕋᖓᓂᒃ ᑕᐅᕙᓂᑦᓴᐃᓐᓇᖅ ᖃᓂᒋᔭᖓᓂ ᐃᓱᐊᓂ Archer Fiord ᑲᖏᖅᑐᐊᓂ (C. Carlyle, DFO, pers. comm.). ᑕᒪᐃᓐᓂᒃ, ᑕᑯᔭᐅᓚᐅᖅᑐᑦ ᐅᑯᐊ: 36 ᐊᐃᕖᑦ, 29 ᑐᒫᓖᑦ ᕿᓚᓗᒐᐃᑦ, 34 ᓇᑦᑏᑦ ᐊᒻᒪᓗ ᒪᕐᕉᒃ ᐅᔾᔪᒃ. ᑐᑭᓯᓇᖅᐳᖅ ᑕᐃᒪ ᑕᐅᕙᓐᓇ Archer Fiord ᑲᖏᖅᑐᖓ ᐱᑕᖃᕐᕕᐅᔪᒃᓴᐅᓂᖅ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᑕᕆᐅᕐᒥᐅᑕᓂᒃ ᐆᒪᔪᓂᒃ. ᐱᑕᖃᕐᕕᐅᕙᖕᓂᖓᓂᒃ (ᓱᕐᓗ ᑕᒪᒃᑯᓂᖓ ᐊᐃᕕᕐᓂᒃ, ᑐᒫᓖᖕᓂᒃ ᕿᓇᓗᒐᕐᓂᒃ, ᐅᔾᔪᖕᓂᒃ, ᓇᑦᑎᕐᓂᔾᔪᓗ), ᐃᒻᒪᖔᒃ ᐱᔾᔪᑕᐅᓂᖓᓄᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᕋᐅᔭᖃᑕᕐᓂᖏᓐᓄᑦ ᑕᐅᕙᓂ ᐊᕙᑎᐊᓂᓗ ᐃᒪᕐᓂ ᓯᑯᒥᓗ. ᑕᒪᓐᓇ ᐃᒪᖓ Nares Strait-ᒥ ᒪᒃᐲᕋᖓᑦ ᑐᕙᐃᖅᓯᓂ ᐊᐅᔭᒃᑯᑦ, ᑎᑭᑕᐅᔫᓇᖅᓯᓱᖑᖓᑦ ᑕᕆᐅᕐᒥᐅᑕᓄᑦ ᐆᒪᔪᓄᑦ ᓅᖃᑦᑕᕈᓇᕐᓂᖏᓐᓄᑦ ᐅᐊᖕᓇᖅᐸᓯᐅᓂᕐᒧᑦ ᑕᐅᕙᖔᖅᑐᓂᒃ ᐅᑭᐅᖅᑕᖅᑑᓂᐅᔫᑉ ᑕᕆᐅᖓᓂᒃ ᑕᐃᔭᐅᔪᒥᒃ North Water-ᒥ ᐊᐅᒃᑯᕐᓂᖓᕕᐅᕙᒃᑐᒥ ᐊᒻᒪᓗ ᐃᒪᕐᓂ ᐊᑯᓐᓂᖓᓃᑦᑐᒥᒃ ᐊᑯᑭᑦᑐᐃᓪᓗ ᑲᓇᑕᐅᓪᓗ ᑕᕆᐅᖓᓂ.

ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ

- ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ ᐱᔾᔪᑎᖃᖅᐳᑦ ᑕᕆᐅᖓᓂ ᓱᓇᑕᖃᕐᓂᖓᓂᒡᓗ ᐊᒻᒪᓗ ᐊᕙᑎᖏᓐᓂ ᐊᕙᑎᒥᐅᑕᕆᕙᒃᑕᖏᓐᓂᓗ ᑐᕙᐃᔪᐃᑦᑑᑉ ᑲᖏᖅᑐᒐᓴᖏᓐᓂ, ᑕᒪᒃᑯᓂᖓ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕆᓗᑎᒃ ᑕᐅᕙᑦᓱᒪ ᐊᕙᑎᐊᓂ ᑕᕆᐅᑉ ᐃᑎᓂᖏᑦ.
- ᑲᖏᖅᑐᐃᑦ ᐊᔾᔨᒌᖏᓐᓂᖃᖅᐳᑦ ᐊᑕᓂᖏᓐᓂ ᓄᓇᒧᑦ, ᓯᑯᑐᖃᐅᓂᕐᒧᑦ ᓯᕐᒥᖕᓄᓪᓗ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒧᑦᑎ. ᑲᖏᖅᑐᓂᒃ ᐅᓯᔭᐅᓯᒪᔫᖃᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐅᑎᖅᑕᖃᑕᕐᓂᖏᑦ ᓱᓇᑐᐃᓐᓇᐃᑦ ᐊᑕᔪᑦ ᑕᒪᒃᑯᓄᖓ, ᑭᐳᑎᕙᖕᒪᑦ ᓯᖕᒃᖅᐸᓯᐅᓂᐅᑉ ᑕᕆᐅᖓᓄᑦ, ᐊᒻᒪᓗ ᖃᓄᐃᓕᐅᕈᑕᐅᔭᕆᐊᖃᖅᑐᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᓯᓚᐅᑉ

ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓂᒃ ᑲᒪᒋᔭᐅᔭᕆᐊᖃᔭᖅᑐᑦ ᖃᐅᔨᓴᒐᒃᓴᐃᕝᕕᐅᕙᒡᓗᑎᒃ ᐊᒻᒪᓗ ᓇᐅᑦᑎᖅᑐᐃᕕᖃᕐᓗᑎᒃ ᐃᓂᒃᓴᖃᖅᑎᑕᐅᓇᔭᖅᑐᓂᒃ. ᓱᒃᑲᓕᔪᒥᒃ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ ᐊᒻᒪᓗ ᒫᓐᓇᓵᖑᓯᒪᔪᖅ ᓱᕋᖅᑎᖅᐸᓪᓕᐊᓯᒪᓂᖏᑦ ᓯᑯᑐᖃᓗᓂᖏᑦ ᓯᕐᒥᓪᓗ (ᓲᕐᓗ ᑕᐅᕙᓂ Milne-ᐅᑉ ᓯᑯᑐᖃᓗᓂᖓᓂ ᐊᐅᔭᐅᓚᐅᖅᑐᖅ 2020-ᒥ) ᒫᓐᓇᑲᐅᑎᒋ ᐱᓕᕆᐊᖑᔭᕆᐊᖃᕈᑎᖃᖅᐳᖅ.

- ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᓇᓃᖃᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐱᑕᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᖃᐅᔨᒪᔭᐅᑦᑎᐊᖏᓗᐊᖅᐳᖅ. ᑕᒪᒃᑯᐊᖏᓐᓇᐃᑦ ᐊᐃᕖᓪᓗ ᑐᒫᓕᓪᓗ ᕿᓚᓗᒐᐃᑦ ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᖕᒪᑕ Archer Fiord ᑲᖏᖅᑐᖓᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᐊᒻᒪᓗ ᓇᑦᑏᑦ, ᐅᒡᔪᐃᑦ, ᓇᓄᐃᓪᓗ ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᓪᓗᑎᒃ ᐊᓯᖏᓐᓂ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕕᖓᓂ. ᑭᓯᐊᓂᓕᑕᐅᖅ, ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ ᑐᕙᐃᔪᐃᑦᑐᒥ ᐊᒥᓲᓯᒪᖏᓚᑦ ᐅᖓᓯᖕᓂᖓᓄᑦ, ᐱᕕᑭᑦᑑᓂᖓᓄᑦ, ᐃᓛᓂᒃᑯᓪᓗ ᐱᑕᖃᕐᕕᐅᕙᖕᓂᖓᓄᑦ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᐱᐅᓯᕆᕙᒃᑕᖏᑦ ᑕᐅᕙᓃᑉᐸᑦ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ, ᖃᐅᔨᒪᐅᖏᑦᑐᐃᓐᓇᐅᑲᓴᐅᕗᑦ.

ᑕᕆᐅᕐᒥ ᓯᑯᒧᑦ ᐊᑕᔪᑦ ᖃᓄᐃᑦᑑᕙᖕᓂᖏᑦ

ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐃᑦᐊᔾᔨᒋᔭᐅᖏᑦᑐᓂᒃ, ᖃᐅᔨᓴᖅᑕᐅᓯᒪᑎᐊᖏᓗᐊᖅᑐᓂᒡᓗ, ᐱᑕᖃᕐᕕᐅᕙᒃᑐᑦ ᓯᑯᒥᐅᑕᐅᖃᑕᓐᓇᖅᑐᓄᑦ ᑕᒪᒃᑯᓂᖓ ᓱᕐᓗ ᕐᑯᐱᕐᕈᕐᓂᒃ ᐊᒻᒪᓗ ᑭᖑᔭᕋᓛᑦ ᑕᒪᒃᑯᐊᓗ ᑕᕆᐅᒥᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᑦ ᑎᖕᒥᐊᑦ ᐊᒻᒪᓗ ᓇᓄᐃᑦ. ᐱᑐᖃᐅᓂᖅᓴᐃᑦ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᑕᐃᒃᑯᐊ ᐃᔾᔪᔪᐊᓗᓂᖏᑦ ᖃᖃᔭᑦ ᐊᒻᒪᓗ ᐃᕕᓯᒪᕙᖕᓂᖏᑦ ᐱᑕᖃᓲᖑᕗᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᐃᓱᒪᒋᐅᓪᓗᑎᒃ ᐱᒻᒪᕆᐅᔪᒥᒃ ᐱᑕᖃᕈᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᓯᑯᒥᐅᑕᓄᑦ ᖁᑉᐱᕈᕐᓄᑦ (Hop and Pavlova 2008, Gradinger et al. 2010). ᓴᑐᒥᒃ ᐊᐱᓯᒪᕙᖕᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐃᕕᓂᖏᑦ ᖃᐅᔨᒪᓂᖅᓴᐅᔫᓇᕈᑕᐅᕙᒃᑐᑦ ᐊᕙᑎᖓᓄᑦ ᖁᑦᑎᖕᓂᖅᓴᐅᓂᕐᒦᓂᖏᓐᓄᑦ ᐊᐱᓯᒪᓂᖅᓴᐅᕙᒃᑐᑦ ᓴᓂᐊ, ᑕᐃᒪᐃᓂᖓᓄᑦ ᓈᒻᒪᓪᓗᐊᑦᑎᐊᖅᐳᑦ ᓯᑯᒥ ᐱᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᓯᕿᓂᕐᒥᒃ ᖁᑭᐅᓪᓗ/ᑯᐊᓐᓂᓪᓗ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐃᓚᖏᓂ, (Lange et al. 2017). ᑕᒪᒃᑯᐊ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ ᐱᕈᖅᕕᐅᒐᔪᐃᓐᓂᖅᓴᐅᕙᒃᓗᐊᖅᑎᓪᓗᒋᑦ ᑕᐃᒃᑯᓇᖓᑦ ᓴᓂᐊᓂ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᓂᒃ, ᓯᑰᓂᐊᓗᖏᑦ ᑲᑎᖅᓱᐃᕕᐅᓚᐅᖅᑐᑦ ᑕᐅᕙᖓᑦ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᖓᖕᓂᒃ Lincoln Sea ᑕᕆᐅᖓᓂᒃ ᖃᐅᔨᔭᓚᐅᖅᑐᑦ ᐱᕈᖅᐸᒃᑐᓄᑦ ᐱᕈᓐᓇᐅᑎᓕᖕᓂᒃ cholophyll-ᒥᒃ ᐱᑕᖃᕐᓂᖅᓴᐅᓂᖏᓐᓂᒃ ᐱᕈᖅᑐᓂᖕᒐᖅᓯᒪᕙᒃᑐᑦ ᐅᒪᔪᓂᒡᓗ, ᓴᓂᐊᓂ ᓵᒡᓕᑎᕈᑎᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂᒃ (ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐃᕗᓯᒪᕙᓐᖏᓂᖏᓐᓂᒃ ᓯᑯᒥ) ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗ (Lange et al. 2015, 2017). ᓯᑯᒥ ᐱᕈᖅᑐᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᕿᕐᑯᐊᕐᓂᒃ ᑯᐊᓂᓂᒡᓗᓐᓃᑦ ᓂᕿᖃᕈᑕᐅᓚᓇᒃᐳᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑕᕆᐅᕐᒥ ᓂᕿᖃᕈᑕᐅᕙᖕᓂᕐᒧᑦ, ᑕᒪᒃᑯᓄᖓ ᕐᑯᐸᐱᕈᒐᓴᐅᕙᒃᑐᓄᑦ, ᕐᑯᐸᐱᕐᓄᓪᓗ ᓴᐅᓂᖃᖏᑦᑐᑦ ᓇᑎᕐᒥᐅᑕᓄᑦ ᐃᖅᑲᖓᓂ, ᐊᒻᒪᓗ ᓯᑰᐸ ᐊᑕᓃᐸᒃᑐᓄᑦ ᐆᒪᔪᓄᑦ, ᐊᑐᖃᑦᑕᖅᓱᑎᒃ ᐱᐅᓯᖃᑐᕐᓂᒃ ᓯᑯᒥ- ᑕᕆᐅᕐᒥ ᐃᒪᕐᒥ ᐃᑎᓂᕐᒥ ᑐᑭᒧᑦ - ᕐᑯᐸᐱᕈᐃᑦ ᓴᐅᓂᖃᖏᑦᑐᑦ ᓇᑎᐊᓂᕐᒥᐅᑕᐃᑦ ᐃᖃᖓᓂ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓄᑦ, ᐱᒻᒪᕆᐊᓘᖕᒪᑕ ᐊᑑᑎᖃᕐᓂᕐᒧᑦ ᓯᑯᒥᐅᑕᓄᑦ ᓂᕿᒃᓴᖃᕈᓐᓇᐅᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᐊᒥᓱᓄᑦ ᐊᔾᔨᒋᖏᑦᑑᑎᐅᕙᒃᑐᓄᑦ.

ᐅᓪᓗᒥᒧᑦ ᑎᑭᓪᓗᒍ, ᐊᒥᓱᒐᓴᐃᑦ ᐊᔾᔨᒌᖏᑦᑑᑏᑦ ᓯᕿᓂᕐᒥᒃ ᐱᕈᖅᐸᒃᑐᑦ ᓲᕐᓗ ᑕᒪᒃᑯᐊ ᕿᕐᑯᐊᑦ/ᑯᐊᓐᓃᑦ, ᕐᑯᐸᐱᕈᐃᑦ ᐆᒪᔪᓛᑦ ᐋᓐᓂᐊᓕᕈᑕᐅᔪᓐᓇᖅᓲᑦ ᑕᐃᒃᑯᐊᓗ ᑎᒥᒥᐅᑕᓇᔭᐅᔪᓄᑦ ᐊᑕᑕᕐᓗᑎᒃ ᑭᓯᐊᓂ ᐱᕈᑲᓐᓂᕈᓐᓇᓕᓴᓯᖑᔪᑦ ᐊᓯᖏᓪᓗ ᑕᑯᒃᓴᐅᕙᖏᑦᑐᑦ ᑕᐃᒃᑯᐊᓗ ᓲᕐᓗ ᐅᕐᑯᒃᑎᑐᑦ ᐱᕈᖅᐸᓪᓕᐊᖃᑕᓐᓇᓲᖑᔪᑦ ᐃᓕᑕᓇᔭᐅᓯᒪᕗᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐃᓚᒋᔭᐅᓂᕐᒧᑦ ᑕᐃᒃᑯᓄᖓ ᐊᒥᓱᓂᒃ ᐃᖃᓇᐃᔭᖃᖅᑐᑦ ᐅᑭᐅᖅᑕᖅᑐᒥᒃ ᐱᓕᕆᐊᖃᕐᓂᕐᒧᑦ ᐊᕿᐅᒪᓂᖏᑦ MAP-ᑯᑦ–ᑭᖑᓪᓕᕐᒥ ᓯᑯᓯᒪᕝᕕᐅᔪᑑᓕᕈᒪᖅᓂᖅᑐᑦ ᑕᐃᒫᒃ (Charette et al. 2020), ᐱᔾᔪᑕᐅᕙᒃᑐᑦ ᑕᒪᐃᓐᓄᑦ ᐊᔾᔨᒌᖏᑦᑑᑎᖃᕈᓐᓇᕐᓂᖓᓄᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑕᕆᐅᕋᓗᑉ ᐊᕙᑎᖓᓂ ᐊᕙᑎᒥᐅᖃᕈᓐᓇᕐᓂᖓᓂᓗ. ᓴᕿᐅᒪᔪᖃᕆᕗᖅ ᑐᑭᓯᓇᖅᑐᔾᖅᑐᓂᒃ ᐊᔾᔨᒌᖏᑦᑑᑎᓂ ᐅᖅᓱᖃᕈᓐᓇᓲᖑᔪᓂᒃ ᐱᑕᖃᕐᒥᔪᑦ ᓂᕿᒃᓴᕆᔭᐅᕙᒃᑐᓂᒃ (Kohlbach et al. 2020) ᐊᒻᒪᓗ ᐊᔾᔨᒌᖏᓂᖏᓐᓂᒃ ᓯᑯᒃᑯᑦ ᐱᕈᕈᓐᓴᓇᓯᖃᑕᖅᑐᑦ ᑕᒫᓂ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᖕᓂ ᐊᒻᒪᓗ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᓂᒃ ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ (J. Charette, DFO, pers. comm.) ᐊᓯᖏᓐᓂᓐᓗ ᐅᑭᐅᖅᑕᑐᒥ ᑕᕆᐅᕋᓗᐊᓂ (Hop et al. 2020). ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐃᑦᑕᐅᖅ

ᐱᑕᖃᕐᓂᖅᓴᐅᕙᖏᔪᑦ ᓯᑯᒦᑐᓐᓇᖃᑦᑕᖅᑐᓂᒃ ᐆᒪᔪᓂᒃ ᐊᒻᒪᓗ ᐱᑭᖅᑐᖃᕐᓂᖏᓐᓂᒃ ᓴᓂᐊᓂᒃ ᑕᐃᒃᑯᓇᖓᑦ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᓂᒃ (Melnikov et al. 2002, Hop et al. 2011, 2020)

ᕿᒥᕐᓗᖃᖏᑦᑐᑦ ᓂᕿᒃᓴᔭᕆᔭᐅᕙᒃᑐᑦ ᐊᓯᖏᓪᓗ ᐊᑕᕗᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓂᕿᓴᖃᕈᑕᐅᖃᑕᕐᓂᕐᒧᑦ, ᐆᒪᕐᑯᑕᐅᕙᒃᓯᑎᒃ ᐱᓗᐊᖅᑐᒥᒃ ᑕᒪᒃᑯᓂᖓ ᐊᑐᐃᓐᓇᐅᕙᖏᓂᖏᓐᓄᑦ ᐃᖃᓗᖏᓄᑦ ᓱᕐᓗ (ᓱᕐᓗ, ᐆᒃᑑᑎᒋᓗᒍ Michaud et al. 1996), ᕿᓇᓗᒐᕐᓄᑦ/ᐊᕐᕕᕐᓄᑦ/ᕿᓚᓗᒐᕐᓄᑦ (ᓱᕐᓗ, Lowry et al. 2004, Pomerleau et al. 2011), ᓇᑦᑎᕐᓄᑦ (ᓱᕐᓗ, Harwood et al. 2015), ᑎᖏᐊᕐᓄᓪᓗ (ᓱᕐᓗ, Jakubas et al. 2017). ᓯᑯᒦᑕᓇᐊᓖᑦ ᕿᒥᕐᓗᖃᖏᑦᑕᑐᑦ ᐊᕕᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᖅᐳᑦ ᒪᕐᑑᖏᓄᑦ ᐃᖏᒍᖓᕙᒃᑑᖏᓄᑦ: ᑕᐃᒃᑯᐊ ᓯᑯᒦᑕᓇᐊᖃᖅᑐᑦ ᐆᒪᔪᓐᓇᕐᓂᖏᓐᓄᑦ, ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᑕᒫᓃᓐᓇᖅ ᐊᕐᕋᒍᒐᓴᖏᓂ ᓯᑯᑐᖅᑳᓗᖏ ᐊᒻᒪᓗ ᑕᐃᒃᑯᐊ ᐊᑐᖃᑦᑕᖅᑐᑦ ᑕᓇᐅᕐᒥ ᓯᑯᒥᒃ, ᐱᕈᕈᓐᓇᖅᓯᑎᒃ ᐊᕐᕋᒎᑉ ᐃᓛᒍᑦ ᓯᑯᒦᓂᖏᓐᓂ (Gulliksen and Lønne 1991, Barber et al. 2015). ᓯᑯᒥᓲᖑᓂᖏᑦ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᖁᐸᐱᕐᕈᐃᑦ ᓂᓇᕙᒃᑐᑦ ᓯᑯᒥᒃ ᐱᕈᕐᕕᐅᓯᒪᔪᓂᒃ ᓯᑯᑉ ᐊᑖᓃᑦᑐᓂᒃ ᐱᑕᖃᕐᓂᖏᓐᓂ ᐅᕝᕙᓗᓐᓃᑦ ᑕᐃᒃᑯᐊ ᓯᕿᓂᕐᒧᑦ ᐱᕈᕐᓇᖅᑐᑦ ᑭᕕᕙᓪᓕᐊᖃᑕᕐᓂᖏᓐᓂ ᐃᒪᒃᑯᑦ ᑐᑭᒧᐊᒃᑐᒥᒃ ᑲᑕᒐᖅᓱᑎᒃ (Michel et al. 1996, 2002), ᑕᐃᒃᑯᓇᖓᑦ ᓯᑯᒦᑦᑕᓇᐊᖃᖅᑐᓂᒃ ᖁᐱᕐᕈᖃᕐᕕᐅᕙᖏᓂᖏᓐᓂᒃ ᐊᕐᕋᒍᒥ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓂ ᓯᓚᒥᒃ ᒪᓕᒃᑐᓂᒃ (Brown and Belt 2012). ᐅᖅᓱᖃᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑐᖁᖅᑕᐅᓯᒪᖃᑕᕈᓐᓇᕐᓂᖏᑦ ᐊᖏᔫᑏᑦ ᓯᑯᒦᑦᑐᓂᒃ ᓯᕿᓂᕐᒧᑦ ᐱᕈᕈᑎᖃᖅᐸᒃᑐᑦ ᖁᐸᐱᕈᖃᕈᓐᓇᕐᓂᖏᓐᓂᓗ ᐱᑕᖃᓇᐊᖃᒻᒪᓇᓲᖑᕙᑦ ᐆᒪᐃᓐᓇᕈᓐᓇᕐᓂᐊᕈᑎᒃ ᑕᒪᒃᑯᐊ ᖁᐸᐱᕈᓂᖏᑦ ᒪᕐᑑᒃ ᐊᔾᔨᒌᖏᑦᑑᒃ ᐱᑕᖃᕈᓐᓇᕐᓂᐊᕈᑎᒃ (Søreide et al. 2010, Record et al. 2018). ᓯᑯᒦᑕᓇᐊᖃᕐᓂᖏᑦ ᖁᐸᐱᕈᐃᑦ ᐊᔾᔨᒌᖏᑦᑑᑦ (ᖃᓪᓗᓈᑎᑐᑦ ᑕᐃᔭᐅᔫᒃ *hyperboreus* ᐊᒻᒪᓗ *C. glacialis-*ᓂᒃ ᓈᒻᒪᓈᖅᓯᒪᓲᖑᕙᑦ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᓐᓂ ᓯᑯᒥ ᓯᕿᓂᖃᕐᓂᕐᒧᑦ ᐱᕈᕐᕕᐅᔪᓐᓇᖅᓯᕙᖏᓂᕐᒧᑦ ᐅᖅᓱᖃᕐᓂᖏᓐᓄ ᑭᖑᔭᕐᓂᖓᖅᐸᒃᑐᑦ ᓯᑯᒥ, ᐱᒻᒪᑎᐅᓪᓗᑎᒃ ᐱᑕᖃᓕᒃᓂᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓄᑭᖃᕈᑕᐅᔪᓐᓇᕐᓂᐊᕐᒪᑕ ᑐᕐᑯᖓᔪᑎᑐᑦ ᓄᖃᖓᑐᐃᓐᓇᓕᕐᒥᒍᑎᒃ ᐅᑭᐅᒃᑯᑦ ᑕᖅᑭᒐᓴᓗᖏᓂ). (Falk-Petersen et al. 2009, Record et al. 2018).

ᑕᒪᒃᑯᐊ ᐊᔾᔨᒌᖏᓐᓂᖏᑦ ᖁᐱᕐᕈᐃᑦ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᐆᒪᔪᓐᓇᓲᖑᕙᑦ ᓇᔪᖅᐸᒃᑕᖏᓐᓂᒃ ᑕᕆᐅᕐᒥ ᓯᑯᒥᒃ ᑐᖓᕕᖃᕐᓂᕐᒧᑦ, ᐅᖃᐅᓯᐅᕆᐊᑲᓐᓂᖅᓯᒪᓪᓗᑎᒃ ᑕᐃᑲᓂ Charette et al. (2020). *ᑕᒪᒃᑯᐊ ᑭᖑᔭᐃᑦ ᒥᑭᔫᑏᑦ* ᐱᑕᖃᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᑕᑯᔭᐅᒐᔪᖏᑦᑑᒐᓗᐊᑦ ᑕᐅᕙᓂ ᓯᕙᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᓂᒃ ᐃᓚᖏᓐᓂ ᑲᓇᑕᐅᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᕐᑯᑎᒐᓴᖏᑦ ᑕᑯᔭᐅᓚᐅᖅᑐᑦ ᐊᑕᓪᓗᑎᒃ ᑕᕆᐅᕐᒥ ᓯᑯᐊᓗᐊᓄᑦ ᑐᕙᐃᔪᐃᑦᑑᕐᒥ (C. Michel and S. Duerksen, DFO, pers. comm.). ᑕᒪᒃᑯᐊ ᐆᒪᔪᐃᑦ ᐱᑕᖃᓲᖑᕙᑦ ᐊᕐᕋᒎᑉ ᐃᓚᐃᓐᓇᖓᓂ ᓯᑯᒥ ᑭᓯᐊᓂ ᐃᒫᑎᒋ 10–100-ᖏᖅᑕᖅᓯᒪᔪᓂᒃ ᒥᑭᓐᓂᖅᓴᐅᕙᒃᑐᑦ ᑕᐃᒃᑯᓇᖓᑦ ᐊᕐᕋᒍᒐᓴᖏᓂ ᓯᑯᑐᖃᓗᖏᓐᓂᖏᓐᓂᒃ; ᐊᒻᒪᓗᑕᐅᖅ, ᐱᕈᕈᓐᓇᕐᓂᖏᑦ ᐊᑐᓂ ᐃᖏᒍᑦ ᑕᒪᒃᑯᐊ ᓯᕙᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᓂᒃ ᐊᕐᕋᒍᒐᓴᖏᓂ ᓯᑯᑐᖃᓗᖏᓂ ᐊᒥᔅᓯᖏᓐᓂᖅᓴᐅᕙᖏᒥᔪᑦ ᑕᐃᒫᒃ ᑐᑭᓯᓇᖅᓯᑎᒃ ᓯᕙᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᖁᐱᕐᕈᖃᕐᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᐱᐅᖏᓐᓂᖅᓴᐅᕙᒃᑐᑦ ᑕᒪᒃᑯᓄᖓ ᑭᖑᔭᕐᓄᑦ ᐃᒪᕐᒥᐅᑕᐅᔪᑦ ᓄᓇᒧᐊᕈᓐᓇᖅᑐᓄᓪᓗ (Beuchel and Lønne 2002).

ᐆᒪᐃᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐱᑕᓖᑦ, ᐆᒪᔪᓐᓇᖅᐳᑦ ᑕᕆᐅᕐᒥ ᓯᑯᒥ (Welch et al. 1993, Mecklenburg et al. 2011) ᐊᕙᑎᖓᓄᑦ ᐊᕙᑎᒥᐅᑕᖏᓐᓄᓪᓗ ᐱᑕᖃᕆᐊᖃᒻᒪᕆᒃᑐᑦ ᑕᒪᐃᓐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᑎᐅᕙᖏᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓂᕿᒃᓴᕆᔭᐅᕙᖏᓂᖏᓐᓄᑦ ᑕᒪᒃᑯᓄᖓ ᑐᑭᒧᐊᒃᑐᒥ ᑕᕆᐅᕐᓗᖏ ᐃᒫᓂ ᐊᒻᒪᓗ ᑕᕆᐅᕐᓖᖏ ᓇᑎᐊᓂᕐᒥᐅᑕᐅᔪᓄᑦ ᓂᕿᒃᓴᕆᔭᐅᕙᒃᓯᑎᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑕᕆᐅᕐᓗᖏᒥ (ᓱᕐᓗ, Crawford et al. 2012, David et al. 2016, Kohlbach et al. 2017, Coad ᐊᒻᒪᓗ Reist 2018). ᐊᕙᑎᒥᐅᑕᐅᓂᕐᒧᑦ ᐊᓯᖏᓄᓪᓗ ᐆᒪᔪᓄᑦ ᐱᒻᒪᕆᐅᓗᐊᖅᓯᑎᒃ, ᖃᐅᔨᒪᔭᐅᑦᑎᐊᒻᒪᕆᒃᐳᑦ ᐊᕙᑎᒥᐅᑕᐅᓂᖏᑦ ᐊᒻᒪᓗ ᓇᒧᖓᐅᖃᑕᕐᓂᖏᓄᓪᓗ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐆᒪᐃᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᒥᔅᓯᓂᑦ ᐱᑕᖃᕐᕕᐅᓂᖏᓐᓂ ᑕᒪᒃᑯᓇᓂ ᐊᕐᕋᒍᒐᓴᖏᓂ ᓯᑯᑐᖃᓗ. ᐆᒪᐃᑦ ᒫᓐᓂᖃᓕᓲᖑᔪᒃᓴᐅᕙᑦ ᓯᑯᑉ ᐊᑖᒍᑦ ᐊᒻᒪᓗ ᒪᓐᓂᖏᑦ ᐳᑦᑕᖅᐸᒃᓯᑎᒃ ᐃᒪᐅᑉ ᖃᖓᓄᑦ ᖃᓂᒋᔭᖓᓂ ᓯᑯᓪᓗ ᐃᒪᐅᓂᖓᓂᓗ (Bain et al. 1977). ᐅᑭᐅᖅᑕᖅᑐᒥ ᐆᒪᐃᑦ ᒪᓐᓂᖏᑦ ᐊᑐᖅᐸᒃᑐᑦ ᓯᑯᑦ ᐊᑖᓂ ᑕᕆᐅᖑᓂᖓᓂᒃ ᐊᒻᒪᓗ ᐃᓗᑐᓂᖏᓐᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᕆᔭᐅᓂᕐᒧᑦ ᐊᒻᒪᓗ ᓂᕿᒃᓴᖅᓯᐅᕆᔭᐅᑕᐃᓕᒪᓂᕐᒧᑦ (Bain et al. 1977, Gradinger ᐊᒻᒪᓗ Bluhm 2004). ᐱᕈᐊᓂᒃᓯᒪᔪᑦ ᐆᒪᐃᑦ ᑕᕆᐅᕐᒥ ᓯᑯᒦᖏᓐᓇᓲᖑᕙᑦ, ᐊᒻᒪᓗ ᑕᐅᕙᓂ ᕿᑎᖅᐸᓯᐊᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᖓᓂ, ᐊᒥᓲᓂᖅᓴᐃᑦ ᐆᒪᐃᑦ

ᐃᔾᔪᓂᖏᓐᓂ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᖕᒥᖃᑕᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᑭᖑᔭᖃᕐᕕᐅᓂᖏᓐᓂ ᐃᒪᕐᒥᑉᐸᒃᑐᓂ ᐊᒻᒪᓗ ᓯᑯᑉ ᖃᖓᓃᑦᑐᓐᓇᖅᑐᓂ ᑕᒪᒃᑯᐊ ᐱᑕᖃᕐᓂᖏᑦ (ᑕᐃᔭᐅᔪᓂᒃ *Apherusa glacialis*) (David et al. 2016). ᐅᑭᐅᖅᑕᖅᑐᒥ ᐆᒐᐃᑦ ᓂᕿᒃᓴᖃᓲᖑᕗᑦ ᐱᓗᐊᖅᑐᒥᒃ ᓯᑯᒦᖃᑕᐅᕙᒃᑐᓂᒃ ᓲᕐᓗ ᑭᖑᔭᒐᓴᖕᓂᒃ ᐊᔾᔨᒌᖏᑦᑐᓂᒃ ᑕᒪᑯᓂᖓ ᖃᓪᓗᓈᑎᑐᑦ ᑕᐃᔭᐅᔪᓂᒃ calanoid copepods, amphipods ᐊᒻᒪᓗ mysids-ᓂᒃ (David et al. 2016, Kohlbach et al. 2017). ᐅᑭᐅᖅᑕᖅᑐᒥ ᐆᒐᐃᑦᑕᐅᖅ, ᓂᕿᒃᓴᓇᔭᐅᕙᖕᒥᔪᑦ ᐊᓯᖏᓐᓄᑦ ᐃᖃᓗᒐᓴᐅᕙᒃᑐᓄᑦ ᐊᔾᔨᒌᖏᑦᑐᓄᑦ, ᑕᕆᐅᕐᒥᐅᑕᓄᑦ ᐆᒪᔪᕐᓄᑦ, ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥᒃ ᓂᕿᒃᓴᖅᓯᐅᐸᒃᑐᓂ ᑎᖕᒥᐊᕐᓂᒃ, ᑕᒪᕐᒥᒃ ᓯᓈᓂᓲᖑᔪᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᓂᖏᓐᓂ (Bradstreet and Cross 1982, Welch et al. 1993, Kovacs et al. 2011), ᐊᒻᒪᓗ ᐃᓚᒋᔭᐅᓪᓚᓇᒃᓯᑎᒃ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᒥᕈᖅᐸᓪᓕᐊᓗᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐊᖏᔫᑎᐅᓂᖅᓴᓄᑦ ᐆᒪᔪᓄᑦ ᓂᕿᒃᓴᓇᔭᐅᕙᒃᓯᑎᒃ.

ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ ᐱᑕᖃᕈᓂᖅᐸᓪᓕᐊᓇᔭᕈᑎᒃ, ᑕᒪᓐᓇ ᐅᑭᐅᖅᑕᖅᑐᒥ ᑕᕆᐅᕋᓗᒃ ᐱᔭᕆᐊᑐᔪᓐᓇᖅᑐᓂᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᓂᐊᖅᑐᒃᓴᐅᕗᖅ ᐆᒐᖃᕈᓐᓇᕐᓂᖓᓂ; ᕿᒫᓯᕝᕕᑭᓐᓂᖅᓴᐅᓕᕐᓂᐊᕐᒪᑕ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᒃᑐᓂᒃ ᑕᒪᒃᑯᓂᖓ ᐊᒻᒪᓗ/ᐅᕝᕙᓗᓐᓃᑦ ᒥᑭᒡᓕᒋᐊᕐᓗᑎᒃ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᒋᕙᒃᑕᖏᑦ ᐱᑕᖃᕈᓃᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᐊᖏᔪᐊᓘᔪᓐᓇᖅᑐᒥᒃ (Gradinger and Bluhm 2004, Marz 2010, Meier et al. 2014). ᑭᓯᐊᓂᓕᑦᑕᐅᖅ, ᓇᓗᓇᕈᓃᕆᕗᖅ ᑐᕙᐃᔭᖅᓵᓕᓂᖅᓴᐅᖃᑕᓕᕈ ᑕᕆᐅᕐᒥ ᓯᑯᐃᑦ ᐊᒥᓲᓂᖅᓴᐅᓕᕈᓐᓇᖅᑐᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐆᒐᐃᑦ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᐊᑯᓂᐅᓂᖅᓴᖅ ᐱᕈᕈᓐᓇᕐᕕᒃᓴᖃᓕᕋᔭᕐᒪᑕ (LeBlanc et al. 2019). ᐅᑭᐅᖅᑕᖅᑐᒥ ᐆᒐᐃᑦ ᐃᓇᖏᖅᑕᐅᑕᓂᐊᖅᑐᒃᓴᐅᕗᑦ ᐊᓯᖏᓐᓄᑦ ᖃᓪᓗᓈᓂᖕᒐᖅᑐᓂᒃ ᓂᒋᐊᓂᒃ ᐃᒪᕐᒥᐅᑕᓄᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᓯᑯᖃᐃᓐᓇᕈᓐᓇᕐᓂᖓᓗ ᑕᐅᕙᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᐃᓂᒃᓴᖃᕐᕕᐅᔪᓇᕋᔭᖅᑐᖅ ᐆᒐᕐᓄᑦ ᐱᑕᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓄᑦ.

ᑕᕆᐅᕐᒥ ᓯᑯᒥ- ᑕᕆᐅᕐᒥ ᐃᒪᕐᒥ - ᕐᑯᐸᐱᕐᕈᐃᑦ ᓴᐅᓂᖃᖏᑦᑐᑦ ᓇᑎᐊᓂᕐᒥᐅᑕᐃᑦ ᐃᖃᖓᓂᓲᖑᔪᑦ ᐱᑕᖃᕐᓂᖏᓄᑦ ᐱᒻᒪᕆᐅᕗᑦ ᑕᕆᐅᕐᒥ ᓯᑯᒥ ᑕᒪᒃᑯᐊ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓂᑦ ᐊᑕᖓᑕ ᑕᕆᐅᕐᒧᑦ ᓯᑯᒧᑦ ᐊᒻᒪᓗ ᓇᑎᐊᓂᕐᒥᐅᑕᐅᕙᒃᑐᓄᑦ ᓂᕿᒃᓴᖃᕆᐊᖃᕐᓂᖏᓐᓄᑦ, ᐊᑕᖃᑎᒌᖕᓂᖏᑦ ᑕᕆᐅᕐᒥ ᓯᑯᓂᖓᓂᒃ ᐊᒻᒪᓗ ᑕᕆᐅᑉ ᐃᒫᓂ ᐊᒻᒪᓗ ᓇᑎᐊᓂᓲᖑᔪᑦ ᐆᒪᔪᐃᑦ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᐊᕐᕋᒍᑉ ᐃᓚᖏᓐᓂ (ᓲᕐᓗ, Michel et al. 1996, 2006) ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ ᐆᒪᔪᕐᓂᒃ ᓇᓗᓇᐃᒃᑯᑕᐅᔪᓐᓇᖅᑐᑦ, ᑐᑭᓯᔭᐅᓚᐅᖅᑐᑦ ᐱᒻᒪᕆᐅᓂᖏᑦ ᑕᕆᐅᕐᒥ ᓯᑯᒥ ᐱᓗᐊᖅᑐᒥᒃ ᐆᒪᔪᖃᕈᑕᐅᔪᓐᓇᖃᑕᕐᓂᖏᑦ ᑕᕆᐅᕐᒥ ᐃᒪᕐᒥᐅᓄᑦ ᓂᕿᒃᓴᖅᓯᐅᒃᐸᒃᑐᓄᑦ ᐊᒻᒪᓗ ᐃᑎᓂᕐᒥᐅᑕᐅᓄᑦ ᐆᒪᔪᓄᑦ ᐱᕈᖅᑐᓄᓪᓗ ᐊᓯᖏᓪᓗ ᕐᑯᐸᐱᕐᕈᔭᕐᓄᑦ (Søreide et al. 2010, Kohlbach et al. 2019). ᓴᕿᑎᑕᐅᓯᒪᓕᕐᓂᖏᑦ ᓱᑲᓕᔪᒥᒃ ᑯᕕᕙᓪᓕᐊᖃᑕᕐᓂᖏᑦ ᓅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᓯᑯᒥ ᐱᕈᕐᕕᐅᖃᑕᕈᓐᓇᕐᓂᖏᑦ ᑕᒪᐅᖓᑎᒋ ᐃᑎᓂᓕᖕᒥ ᐅᖓᑕᓃ > 4000 m ᒦᑕᓂᓕᖕᓂᒃ ᕿᑎᖅᐸᓯᐊᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᖓᓂ ᑐᑭᓯᓇᕈᑕᐅᓪᓚᓇᒃᑐᑦ ᐱᒻᒪᕆᐅᓂᖓᓂᒃ ᑕᕆᐅᕐᒥ ᓯᑯᒥᓗ ᓇᑎᐊᓂᕐᒥᐅᑕᓄᑦ ᐃᓚᒋᔭᐅᕙᖕᓂᖏᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓂᕿᒃᓴᖅᓯᐅᖃᑕᐅᔪᓐᓇᖃᑕᕐᓂᖏᓐᓄᑦ (Boetius et al. 2013).

ᓇᓃᖃᑕᕐᓂᖏᑦ ᐊᖏᔪᑏᑦ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᐊᑐᖃᑦᑕᕐᓂᖏᓐᓂᓗ ᑕᕆᐅᕐᒥ ᓯᕐᑯᑯᒥᒃ ᓇᔪᖅᐸᒃᑕᖏᓐᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᖃᐅᔨᒪᔭᐅᑦᑎᐊᖏᓗᐊᖅᐳᑦ. ᑕᒪᒃᑯᐊ ᓇᑦᑏᑦ, ᐅᒃᔪᐃᑦ, ᓇᓄᐃᓪᓗ ᐱᑕᖃᓲᖑᔪᓗᓗᐊᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᑭᓯᐊᓂ ᖃᓄᖅ ᐊᒥᔅᓲᑎᒋᕙᖕᓂᖏᑦ ᖃᐅᔨᒪᔭᐅᖏᑦᑐᑦ. ᒫᓐᓇᔫᖅ ᖃᖓᑕᓲᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᒐᒥᒃᑕᐅᖅ ᖃᐅᔨᔭᐅᓚᐅᖅᑐᑦ ᐱᑕᖃᕐᓂᖏᑦ ᐊᒥᓯᐊᓗᐃᑦ ᐊᐃᕕᑦ ᐊᒻᒪᓗ ᑐᒫᓖᑦ ᕿᓚᓗᒐᐃᑦ ᑕᐅᕙᓂ Archer Fiord ᑲᖏᖅᑐᖓᓂ (ᑕᑯᓗᒋᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᑦ ᕐᑯᓚᓂ ᐅᖃᐅᓯᐅᓂᖏᓐᓂ).

ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ

- ᐊᒥᔅᓲᖏᒻᒪᕆᒃᑐᓂᒃ ᐃᒻᒪᕐᑲ ᐊᑕᐅᓯᐅᑉ ᐊᒻᒐᐅᑉ ᐃᓄᒐᖑᐊᖏᑎᑐᑦ ᐊᒥᓲᓂᖃᖅᑎᒋᔪᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᑦ ᐆᒪᔪᖃᕈᑕᐅᕙᖕᓂᖏᑦ ᐊᒻᒪᓗ ᐊᕙᑎᖓᓂ ᐊᕙᑎᒥᐅᑕᖏᓐᓂᓗ ᖃᓄᐃᓕᖓᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᑕᐃᒪᐃᓂᖓᓄᑦ ᐃᓚᑯᒻᒪᕆᐅᔪᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᖅᐳᑦ ᑕᐅᕙᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ. ᐊᒻᒪᑕᐅᖅ ᓱᓕ, ᑕᒪᒃᑯᐊ ᖃᐅᔨᓴᖅᑕᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᐱᕕᑭᕐᕝᕕᐅᖃᑦᑕᖅᓯᒪᔪᑦ, ᐅᖓᑕᓯᒋᒃᑑᑎᐅᖃᑕᖅᓯᒪᓪᓗᑎᒡᓗ ᐱᕕᒃᓴᖃᕐᕕᐅᓂᖏᓐᓂ, ᑕᐃᒪᐃᓂᖓᓄᑦ ᐊᖏᔪᒥᒃ ᖃᐅᔨᒪᔭᐅᖏᓐᓂᖅᐳᑦ ᑕᒪᐃᓐᓂᓕᒫᑲᓴᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ, ᑕᒪᐃᓐᓂᓕᒫᑲᓴᒡᓗ

ᐊᕐᕋᒍᓂᖓᓂ. ᐃᓚᐃᓐᓇᖏᓐᓂᒃ ᓴᕿᑎᑦᑎᓯᒪᔪᖅᖅᐳᑦ ᑕᒪᒃᑯᐊᓂ ᖁᓪᓕᐅᑎᓯᒪᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐃᕕᓯᒪᓂᖏᓐᓂᒃ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ ᐊᔾᔨᐅᖏᑦᑐᓂᒃ ᐆᒪᔪᖅᖃᕐᓂᐅᔪᓐᓇᖃᑕᕐᓂᖏᓐᓂᒃ ᐱᕈᖅᕕᐅᔪᓂᒡᓗ ᑭᓯᐊᓂ ᖃᐅᔨᓴᑕᐅᑦᑎᐊᑲᓂᓇᐊᖅᑐᑦ ᑐᑭᓯᔭᐅᑦᑎᐊᕐᓂᐊᕈᑎᒃ ᐊᔾᔨᒌᖏᓐᓂᖏᑦ ᐊᒻᒪᓗ ᐱᑕᖃᕈᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᐱᐅᓯᓇᔭᐅᕙᒃᑐᑦ. ᒫᓐᓇᐅᔪᖅ ᑎᑎᕋᕈᑕᐅᓯᒪᔪᓂᒃ ᐱᑕᖃᖏᓚᖅ ᐅᖃᓕᒫᒐᓕᐅᕈᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᑕᒪᒃᑯᓂᖓ ᓯᑯᒥᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᑕᕆᐅᕐᒥ ᐃᒪᕐᓂ ᒪᒃᐲᖓᔪᓂᒃ ᑕᕆᐅᕐᐅᒥᑕᖏᓐᓂᒃ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᖃᑕᐃᓐᓇᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ. ᐊᕐᕋᒍᑉ ᐃᓚᐃᓐᓇᒍᑦ, ᖃᑯᑎᒃᑯᑦ ᐅᖓᓯᒌᑦᑐᓂᒃ, ᐊᒻᒪᓗ ᐱᑕᖃᕈᑕᐅᔪᓐᓇᖃᑕᕐᓂᖏᑦ ᐅᒪᔪᐃᑦ, ᐱᕈᖅᑐᑦ, ᖁᑉᐱᕈᖏᓪᓗ ᓱᖏᐅᑎᓯᒪᔪᓐᓇᕐᓂᖏᑦ ᐊᓯᔾᔨᖅᐸᓕᐊᓂᖓᓄᑦ ᑕᕆᐅᕐᒥ ᓯᑯᑉ ᓱᓕ ᖃᐅᔨᒪᔭᐅᖏᑦᑐᐃᓐᓇᑦᑎᐊᖑᕗᑦ ᑕᐅᕙᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ.

- ᐅᖃᓕᒫᒐᓕᐅᖅᓯᒪᔪᖃᖏᓚᖅ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᓂᒃ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᑕᖃᖅᑎᒋᕙᖕᓂᖏᓐᓂᒃ ᓯᑯᒥᐅᑕᐃᑦ ᕿᒥᕐᓗᖃᖏᑦᑐᑦ ᐆᒪᕙᒃᑐᑦ ᐊᔾᔨᒌᖏᖏᑦᑑᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ. ᐊᒃᑐᖅᑕᐅᓯᒪᖏᓂᖏᓐᓂ ᓱᓕ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐃᑦ ᓇᓃᖃᑕᕐᓂᖏᓐᓂᒃ, ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ, ᐱᑕᖃᖅᑎᒋᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᐊᕙᑎᖏᓐᓂ ᐊᕙᑎᒥᐅᑕᓇᐅᕙᒃᑐᓄᓪᓗ ᐃᓚᒋᔭᖑᕙᖕᓂᖏᑦ ᓯᑯᒥᐅᑕᓄᑦ ᑕᓇᐅᕐᒥᓗ ᐃᒪᕐᒥᐅᑕᓄᑦ ᐆᒪᔪᐃᑦ ᓱᓕ ᖃᐅᔨᔭᐅᔭᓇᐊᖃᖅᐳᑦ.
- ᓯᑯᒥ-ᑕᓇᐅᕐᒥ ᐃᒪᕐᒥ-ᖁᑉᐱᕐᕈᐃᑦ ᓴᐅᓂᖃᖏᑦᑐᑦ ᓇᑎᐊᓂᕐᒥᐅᑕᐃᑦ ᐃᖃᖓᓂ ᐃᓕᑕᓇᔭᐅᓯᒪᔪᐃᓐᓇᐅᕗᑦ ᐱᒻᒪᓇᐅᔪᒥᒃ ᐊᑐᖅᑕᐅᒃᓂᕈᓐᓇᖅᑐᓂᒃ ᓄᐃᑎᑦᑎᕙᖕᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓂᕿᒃᓴᖃᕈᑕᐅᕙᓪᓕᐊᖃᑕᐃᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒥᓱᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓯᑯᓯᒪᓂᐅᓂᖏᓐᓂ ᑭᓯᐊᓂ ᑕᒪᓐᓇ ᐱᑕᖃᓇᐊᖃᒻᒪᓇᒃᑐᖅ ᖃᐅᔨᒪᔭᐅᔭᓇᐊᖃᕐᓂᖓ ᐱᑕᖃᖏᓚᖅ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ. ᑕᐃᒫᑦᓴᐃᓐᓇᖅᑕᐅᖅ, ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᑕᓇᐅᕋᓗᑉ ᓇᑎᐊᕐᓂᕐᒥᐅᑕᐅᕙᒃᑐᓂᒃ ᐃᖃᖓᓂ ᑕᒪᒃᑯᓄᖓ ᐱᑕᖃᕈᑕᐅᕙᖕᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᖏᒻᒥᔪᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ.
- ᖃᓄᐃᓕᐅᕈᑕᐅᕙᖕᓂᖏᑦ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖅᑲᐅᓂᐊᓗᖏᑦ ᓇᔪᖅᑕᐅᕙᖕᓂᖏᓐᓄᑦ ᓯᑯᒥᑐᓐᓇᕆᐊᖃᖅᑐᓄᑦ ᐆᒪᔪᒐᓴᖕᓄᑦ, ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᓄᓪᓗ ᐊᑕᓂᖏᓄᓪᓗ ᓂᕿᒃᓴᕆᔭᐅᕙᖕᓂᖏᑦ ᐊᓯᖏᓐᓄᑦ ᐆᒪᔪᕐᓄᑦ ᑐᑭᓯᐅᒪᔭᑦᑎᐊᖏᑐᒻᒪᕆᐅᕗᑦ.
- ᑕᒪᐃᓐᓂ, ᖃᐅᔨᒪᔭᐅᖏᓗᐊᖅᐳᑦ ᐊᒃᑐᖅᑕᐅᓚᐅᖏᓂᖏᓐᓂ ᓱᓇᑐᐃᓐᓇᕐᒧᑦ ᐱᐅᓯᑐᖃᖏᓐᓂᒃ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐅᔪᓐᓇᕐᓂᖏᑦ ᐱᑕᖃᕈᑕᐅᕙᖕᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᓯᖏᓐᓄᑦ ᐃᓚᒋᔭᐅᕙᖕᓂᖏᓄᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ, ᑕᐅᕙᓂ, ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᐊᒻᒪᓗ ᐊᕐᕋᒍᒥ ᓯᑰᑉ ᐊᓯᔾᔨᖅᐸᖕᓂᖓᓂᒃ.
- ᓇᓄᐃᑦ ᑕᐅᕙᖓᑦ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᑉ ᐃᑎᔫᓂᖓᓂ ᑕᕆᐅᕐᒥ ᓇᓄᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᐃᓱᒪᒋᔭᐅᓯᒪᔪᑦ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᖏᓗᐊᕐᓂᖅ ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᓇᓄᖃᕐᕕᐅᕙᖕᓂᖓᓂ, ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ. ᐊᒃᑐᖅᑕᐅᓯᒪᖏᑎᓗᒋᑦ ᓱᓕ ᖃᐅᔨᒪᕙᒋᑎᒃᓴᐃᑦ ᐱᔾᔪᑎᖃᖅᑐᑦ ᓇᓄᖃᕐᕕᐅᕙᖕᓂᖓ ᑐᕙᐃᔪᐃᑦᑑᑉ ᐊᒻᒪᓗ ᐊᕙᓗᐊᓃᑦᑐᑦ ᐊᑭᐊᓂᓗ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕋᒍᓂᒃ ᓯᑯᑐᖃᐃᓐᓇᐃᑦ ᐱᑕᖃᓇᐊᖃᒻᒪᓇᒃᑐᑦ ᑕᐃᒫᒃ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᓪᓕᐊᖃᑕᐃᓐᓇᕈᓐᓇᕐᓂᐊᕐᒪᑕ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᑦ ᓇᓃᖃᑕᕐᓂᖏᓐᓂ ᐱᑕᖃᕐᕕᐅᕙᖕᓂᖏᓐᓂᓗ ᐊᑯᓂᐅᓂᐊᖅᑐᒥᒃ ᑕᐃᒪᒃ ᑕᕆᐅᕐᒥ ᓯᑰᑉ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖓ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᖏᒥ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᖏᓐᓇᕐᓂᖓᓂ.

ᐆᒪᔪᐃᑦ ᐊᔾᔨᒌᖏᑦᑑᑏᑦ

ᑕᒪᓐᓇ ᐃᓂᖃᕋᓗᐊᖅᑎᓪᓗᒍᑦ ᐅᖓᓯᑦᑐᒻᒪᕆᖏᒥ ᐅᐊᖕᓇᖅᐸᓯᒻᒪᕆᐅᓂᕐᒥ, ᑐᕙᐃᔪᐃᑦᑐᖅ ᐊᒥᓱᐊᓗᖕᓂᒃ ᐱᐅᔫᐊᓗᖕᓂᒃ ᐊᔾᔨᒋᖏᑦᑑᑎᐅᔪᓂᒃ ᐆᒪᔪᖃᕐᕕᐅᕙᒃᐳᖅ. ᓴᓂᐊᓂ ᐊᖏᔪᑎᐊᓘᔪᓂᒃ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐅᓂᖏᓐᓂ ᐊᕙᑎᖓᓂ, ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓐᓂᓗ ᑕᒪᓐᓇ ᐊᕕᒃᑐᖅᓯᒪᓂᖓ ᐱᑕᖃᖅᐳᖅ ᐊᒥᓱᓂᒃ ᓯᑯᒥᕕᐅᖃᑕᖅᑐᓂᒃ ᐆᒪᔪᕐᓂᒃ ᐊᒻᒪᓗ ᐊᕐᕋᒍᑕᒫᖅ ᓯᑯᕙᖕᓂᖏᓐᓂᒃ, ᑕᐅᕙᓂ ᐊᐅᓯᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᑕ ᓯᑯᓯᒪᓂᐊᓗᐊᓂ ᐊᑕᔪᓂᒡᓗ ᐊᕙᑎᖏᓐᓄᑦ, ᑲᖏᖅᑐᖏᓂᓄᓪᓗ (ᑕᑯᓗᒋᑦ ᖁᓛᓂ ᐅᖃᐅᓯᐅᒪᓂᖏᑦ), ᐊᔪᕋᖃᓯᖑᓂᖏᓐᓂᒃ ᐊᔾᔨᒋᖏᑦᑑᑎᐅᔪᓂᒃ ᐊᖏᓂᖃᖅᐸᒃᑐᓂᒃ, ᐊᒻᒪᓗ ᐱᑕᖃᑯᑖᒍᓐᓇᕐᓂᖏᓐᓂᒃ ᓯᑯᒥ ᓄᓇᒧᑦ

ᐊᑕᖏᑦᑐᓂ, ᐊᒻᒪᓗ ᓯᒡᔭᖅᐸᓯᖓᓂᓗ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᑕᕆᐅᕐᒥ ᐃᒪᐃᑦ ᐃᓚᖏᑦ ᐊᑕᔪᓐᓃᖅᓯᒪᓪᓗᑎᒃ ᑕᕆᐅᕋᓗᖏᒃ ᐃᒪᕐᒥᒃ ᐊᒥᔅᓲᓯᒪᖏᑦᑐᓂ ᐊᓂᒍᖅᑐᓂ ᑕᐅᓴᒐᖕᓴᓂᒃ ᐊᕐᕋᒍᓂᒃ, ᓱᓕ ᐱᑎᐊᓕᐊᓘᓪᓗᑎᒃ ᑕᐃᔅᓯᒪᓂᓂᑖᓗᖕᓂᒃ ᑕᕆᐅᕐᒥᒃ ᐃᒪᕐᒥᒃ ᑕᐅᕙᖕᒐᑦ ᓯᒡᔭᖅᐸᓯᐊᓂᖕᒑᖅᑐᓂᒃ. ᓯᒡᔭᐅᑉ ᖃᓂᒋᔾᔪᓂ ᓯᑯᕙᓪᓕᐊᖃᑕᕆᕗᖅ, ᐊᐅᒃᐸᒃᓱᑎᒡᓗ, ᐱᑕᖃᖃᓱᖑᕗᑦ ᕿᕐᑯᐊᑦ ᑯᐊᓐᓂᓪᓗ ᐊᒻᒪᓗ ᓄᓇᐅᓂᕐᒧᑦ ᖃᓂᒋᔭᖏᓐᓂ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᕿᒥᕐᓗᓖᑦ ᐊᒻᒪᓗ ᕿᒥᕐᓗᖃᖏᓐᓂᖏᑦ ᐱᑕᖃᓕᖅᐸᓪᓕᐊᖃᑕᐃᓐᓇᕆᓪᓗᑎᒃ, ᒪᓕᒃᑐᓂᒃ ᓯᑰᑉ ᖃᓄᐃᓕᖓᓕᖅᐸᖕᓂᖓᓂᒃ. ᐱᑕᖃᓲᖑᓪᓗᑎᒃ ᑕᐃᒃᑯᐊ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐃᑦ ᐊᕙᑎᖏᓪᓗ ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓐᓂᓪᓗ ᐊᒻᒪᓗ ᑕᒪᒃᑯᐊ ᓯᑰᑉ ᐊᑖᒍᑦ, ᐊᒻᒪᓗ ᓱᓕ ᐃᒪᕐᒥ ᑐᑭᒧᑦ ᐃᑎᔫᓂᖏᓐᓂ ᐊᑕᖓᑕ ᑕᕆᐅᕐᒥ ᓯᑯᒧᑦ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᓂᕿᒃᓴᖃᕐᕕᐅᖃᑕᐃᓐᓇᕐᒥᒃ), ᓱᓇᕕᓂᖃᐅᓂᖏᓄᓪᓗ (ᓲᕐᓗ ᖁᑉᐱᕈᕐᓂᒃ ᐃᒪᕐᒥᖕᒐᖅᑐᓂᒃ ᓯᑯᒧᐊᖅᐸᓪᓕᐊᔪᓄᖓᐅᕙᒃᑐᑦ ᐊᒻᒪᓗ ᓯᑯᑉ ᐊᐅᓚᕙᓪᓕᐊᓕᖃᑦᑕᕐᓂᖓᓄᑦ ᓈᑕᐅᖃᑕᖅᑐᑦ ᐊᓯᖏᓐᓄᑦ), ᐊᒻᒪᓗ ᑕᒪᒃᑯᐊ ᐆᕐᑯᓇᕐᓂᖏᑦ ᐊᒻᒪᓗ ᑕᕆᐅᖏᓐᓇᐅᓂᖏᑦ ᐱᑕᖃᕐᓂᖏᓐᓄᑦ ᐱᔾᔪᑕᐅᕙᖕᒥᔪᑦ ᑕᕆᐅᕐᒥ ᖃᓄᐃᓕᕙᓪᓕᐅᔪᓐᓇᕐᓂᕐᒧᑦ. ᐋᕿᒋᐊᖅᑕᐅᓯᒪᓂᖏᑦ ᑕᕆᐅᑉ ᖃᓄᐃᓕᖓᓂᓂᒃ ᓯᑯᐃᓐᓇᐅᓂᕐᒥ ᑕᕆᐅᕐᒥ ᐅᕝᕙᓗᓐᓃᑦ ᐋᔪᕋᖃᕐᓂᖏᓐᓂ ᐊᒃᑐᐃᓯᒪᕙᖕᒥᔪᑦ ᑰᒡᕕᐅᓂᖏᓐᓂᒃ ᐊᐅᓚᕕᐅᓂᖏᓐᓂᒃ ᐃᒪᕐᓄᑦ ᐊᕙᑎᓄᑦ ᐊᕙᑎᒥᐅᑕᖏᓄᓪᓗ. ᑕᕆᐅᑉ ᖃᓄᐃᓕᖓᕙᖕᓂᖓᑦᑕᐅᖅ ᑐᖓᕕᖃᓲᖑᒋᕗᑦ ᐃᒪᖓᑕ ᓇᒧᑦ ᐃᖏᕐᕋᕙᓪᓕᐊᖃᑕᕐᓂᖓᓄᑦ. ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᓴᖏᔫᕙᖕᒪᑕ ᐊᖏᔪᐊᓗᖏᒃ ᑲᐃᕕᑉᐸᓪᓕᐊᓂᖏᑦ ᐃᒫᓗᐃᑦ ᑕᕆᐅᕐᒥ ᐸᓯᕕᒃᒥᓗ ᐊᑦᑏᓐᑎᒃᒥᓗ, ᒪᓕᖕᓂᖏᓐᓄᑦ ᑐᒃᑐᔭᖅᑑᕐᒥ ᐃᒫᐅᑦ ᐊᖕᒪᓗᖅᑐᒥᒃ ᑲᐃᕕᓐᓂᖓᓂᒃ ᐊᒻᒪᓗ ᐅᑭᐅᖅᑕᖅᑑᓂᓕᒫᒥ ᐃᒪᖅ ᐊᐅᕙᓪᓕᐊᖃᑕᐃᓐᓇᕐᓂᖓᑦ ᐱᔾᔪᑕᐅᕙᖅᑐᖅ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᐆᒪᔪᖃᕐᕕᐅᔪᓐᓇᖃᑕᕐᓂᖓᓄᑦ. ᑕᒪᒃᑯᐊ ᒪᓕᒃᐸᒃᑐᑦ ᐊᔾᔨᒌᓂᖏᓐᓂᒃ ᓯᓚᐅᑉ ᖃᓄᐃᓕᐅᖅᐸᓪᓕᐊᓂᖓᓂᒃ (ᓲᕐᓗ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᓂᕐᒥ ᐊᐅᓚᕙᓪᓕᐊᖃᑕᐃᓐᓇᕐᓂᖓᑕ ᐃᒪᐃᑉ ᑲᔪᓯᓂᖓᓂᒃ ᐊᒻᒪᓗ ᖃᓄᐃᓕᐅᖅᐸᓪᓕᐊᓂᖓᓄᑦ) ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ (ᓲᕐᓗ ᑕᕆᐅᖑᖏᑦᑐᒥᒃ ᐃᒪᖃᕐᓂᖅᓴᐅᕙᓕᕐᐸᓂᖓᓂᒃ ᑐᒃᑐᔭᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᑕ ᑲᐃᕕᓐᓂᕆᕙᒃᑕᖓᓂ) ᓂᕆᐅᕆᔭᐅᓗᐊᖅᓱᑎᒃ ᑭᓯᐊᓂ ᖃᐅᔨᒪᔭᐅᕙᖏᓂᖏᓐᓂᒃ ᑲᑎᐸᓪᓕᐊᑐᐃᓐᓇᖅᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᒪᑕ ᐋᕿᐅᒪᓂᑐᖃᖓᑦ ᐊᒻᒪᓗ ᐊᔾᔨᒌᖏᑐᖃᕈᓐᓇᕐᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐊᕙᑎᖓ ᐊᒻᒪᓗ ᐊᕙᑎᒥᐅᑕᖃᕈᓐᓇᕐᓂᖓ.

ᐃᓱᒪᒋᓪᓗᒍ ᑕᒪᓐᓇ ᐊᒥᓱᓂᒃ ᐆᒪᔪᖃᕐᕕᐅᕙᖕᓂᖓ, ᐃᓱᒪᒋᓪᓗᒋᑦ ᐊᔾᔨᖏᑦᑑᑎᐅᓂᖏᑦ ᐆᒪᖃᓲᖑᓂᖏᓐᓂ, ᑐᕙᐃᔪᐃᑦᑐᖅ ᐱᑕᖃᕐᕕᐅᔪᓐᓇᕐᓂᐊᖅᑐᒃᓴᐅᕗᖅ ᐊᔾᔨᒌᖏᑑᑎᐅᔪᓂᒃ ᐆᒪᔪᓂᒃ, ᑭᓯᐊᓂ ᓱᓕ ᖃᐅᔨᒪᔭᐅᑦᑎᐊᖏᓚᑦ ᑕᒪᒃᑯᐊ ᐱᔾᔪᑎᖃᖅᑐᖅ ᐊᒥᓱᓂᖏᓐᓂᒃ, ᐱᑕᖃᓕᖅᐸᓪᓕᐊᖃᑕᐃᓐᓇᕐᓂᖏᓐᓂᒃ ᐅᒪᔪᐃᓪᓗᓐᓃ ᓇᓃᖃᑕᕐᓂᖏᑦ ᑕᒫᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᕐᒥ. ᒪᓐᓇᔫᖅ ᖃᐅᔨᔭᐅᓚᐅᖅᑐᑦ ᐆᒪᔪᖃᓲᖑᓂᖏᑦ ᐃᓗᐊᓂ ᓯᑯᐃᓐᓇᐅᓂᖓᓂ ᑕᐅᕙᓂ Milne-ᒥ (WIRL 2020) ᐃᓱᒪᓇᖅᑐᑦ ᖃᐅᔨᔭᐅᔪᖃᑲᓐᓂᕈᓐᓇᕐᓂᖓᓂᒃ ᑕᐅᕙᓂ ᐊᒻᒪᓗ ᓄᓇᖑᐊᓕᐊᕆᔭᐅᔪᓐᓇᕐᓂᖏᓐᓂ ᐆᒪᔪᖃᕐᕕᐅᓂᖏᑦ ᑕᒪᓂ ᐆᒪᔪᓕᐊᓘᕙᖕᓂᖓᓂ. ᑕᐃᑲᓂ ᐊᒥᓱᓂᒃ ᐃᖃᓇᐃᔭᖃᖅᑐᑦ ᐅᑭᐅᖅᑕᖅᑐᒥᒃ ᐱᓕᕆᐊᖃᕐᓂᕐᒧᑦ ᐊᕿᐅᒪᓂᖏᑦ – ᑭᖑᓪᓕᕐᒥ ᓯᑯᓯᒪᕝᕕᐅᓂᐊᖅᑐᑦ ᑕᐃᒫᒃ ᓄᓇᒦᓚᐅᕐᓂᖏᓐᓂ, ᑕᑯᔭᖅᑐᖅᑕᐅᓯᒪᓗᑎᒃ ᓯᑯᑉ ᐊᑖᓃᑦᑐᑦ ᕐᑯᑉᐱᕈᐃᑦ ᐃᖃᓗᒐᓴᐅᕙᒃᑐᓪᓗ ᐊᒻᒪᓗ ᐃᖃᖓᓃᑉᐸᒃᑐᑦ ᓇᑎᐊᓂ ᐆᒪᔪᐃᑦ, ᖃᐅᔨᔭᐅᔪᓐᓇᖅᓯᓚᐅᖅᑐᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ ᐅᖓᓯᒃᑐᒥᒃ ᐊᐅᓚᑦᑎᔾᔪᑎᖃᖅᑐᑦ ᓄᓇᒃᑰᕈᑏᑦ ᐊᔾᔨᓕᐅᕈᑎᖃᖅᑐᑦ (S. Duerksen, DFO, pers. comm., Charette et al. 2020). ᐃᒪᕐᒦᑐᓐᓇᖅᑐᑦ ᓯᑯᒦᑐᓐᓇᖅᑐᓪᓗ ᖁᑉᐱᕐᕈᐃᑦ ᑕᑯᔭᐅᕙᓚᐅᖅᑐᑦ ᐊᐅᓚᔪᑦ ᓯᑯᑉ ᐊᑖᓂ ᐊᒻᒪᓗ ᐊᒥᓱᒐᓴᐃᑦ ᐊᓯᖏᑦ ᖁᑉᐱᕈᐃᑦᑕᐅᖅ ᑕᑯᔭᐅᕙᓚᐅᖅᑐᑦ ᐃᕿᖓᓂ ᓇᑎᖓᓂ ᑕᕆᐅᕋᓗᑉ ᓯᑯᓂᖓᓂᒃ. ᐅᑭᖅᐅᖅᑕᖅᑐᒥ ᐆᒪᐃᑦ ᑕᑯᔭᐅᕙᓚᐅᖅᑐᑦ ᐊᕿᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᓗᖕᓂ ᐅᖓᓯᒃᑐᒥᒃ ᐊᐅᓚᑕᐅᔪᓐᓇᖅᑐᖅ ᐊᔾᔨᓕᐅᕈᑎᓕᒃᑕᐅᖅ ᐊᑲᐅᒪᔪᓐᓇᕐᓂᖓᓄᑦ ᑕᑯᔭᐅᔪᓐᓇᖅᓯᓚᐅᖅᑐᑦ ᐊᔾᔨᒌᖏᑦᑑᑏᑦ ᓇᑎᖓᓂᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᐊᑕᓃᑦᑐᑦ ᓯᑯᐃᓐᓇᐅᓂᖓᑕ ᐊᑖᓂ ᐃᒪᕐᒥ. ᐱᕈᖅᑐᑦ ᑲᑎᖓᐅᖅᑐᑦ Crinoid, ᐅᓪᓗᓇᐊᖑᐊᓪᓗ, brittle stars ᑕᒪᒃᑯᐊᓗ basket stars, ᓯᓚᑖᒍᓪᓗ ᐊᕙᓗᓖᑦ ᐅᓪᓗᓇᐊᖑᐊᖑᔭᖅᑐᑦ star fish, ᐊᒻᒪᓗ ᑕᓪᓗᕈᕐᓇᐃᑦ, ᑕᒪᒃᑯᐊᓗ ᐊᔾᔨᒌᖏᑦᑑᑏᑦ glass sponges, soft corals, sea fans, anemones, ᐊᒻᒪᓗ sea snails ᑕᑯᔭᐅᕙᓚᐅᕐᒥᔪᑦ. ᐊᒥᓱᒐᓴᐃᑦ ᐃᒪᕐᒥᐅᑕᐃᑦ ᐃᖃᓗᔭᐃᑦ ᑕᕆᐅᑉ ᓇᑎᐊᓂᕐᒥᐅᑕᐃᑦ ᑕᒪᒃᑯᐊᓗ ᐊᒻᒪᓗ ᓂᒥᕆᐊᖑᔪᐃᑦ - fish doctors ᐊᒻᒪᓗ ᑕᐃᒃᑯᐊ cuttlefish ᐊᒻᒪᓗ ᑕᐃᒃᑯᐊᓗ ᓂᐱᑦᑕᐃᑦ/ ᐊᒥᒃᑯᑦ - Octopus ᑕᑯᔭᐅᕙᓚᐅᕐᒥᔪᑦ. ᐊᒥᓱᒐᓴᒻᒪᕆᖕᓂᓗ ᐊᓯᕙᒐᓴᐅᔫᔭᖅᑐᓂᒃ ᑕᕆᐅᕐᒥ ᐊᒥᓲᐊᓗᕙᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᐊᑕᐅᓯᖅ ᐱᐊᕋᖃᒻᒪᕆᓚᐅᖅᓯᓂ.

ᐱᐅᓯᑐᖃᕐᒥᒍᑦ ᖁᐱᕈᖅᓂᐊᕈᑏᑦ ᓱᕐᓗ ᐱᑕᖃᕐᕕᐅᕙᒃᑐᑐᓂᒃ, ᐱᑕᖃᕐᕕᐅᕙᓚᐅᖅᑐᑦ ᐊᖏᔪᐊᓗᖕᒥᒃ ᖁᐱᕈᖃᕐᕕᐅᓂᕐᒥᒃ calanoid copepod-ᓂᒃ ᐊᒻᒪᓗ ᑕᒪᒃᑯᓂᖓ *Paraeuchata norvegica, Metridia longa*, ᐊᒻᒪᓗ *Themisto spp.,* ᑕᒪᒃᑯᐊᓗ *Clione limacina,* ᐊᒻᒪᓗ ᐊᕿᑑᔭᐃᑦ ᖁᐸᐱᕈᐃᑦ *Mertensia ovum* ᐊᒻᒪᓗ *Beroe spp.* ᐊᖏᔪᐊᓗᒃᑕᖃᓚᐅᖅᑐᖅ ᖁᐱᕈᒐᓘᓗᖕᓂᒃ ᑲᑎᖓᔪᓂᒃ ᐃᕙᓗᐊᓘᔭᓕᖅᓯᒪᔪᓂᒃ (*Marrus orthocana)*, ᑕᑭᓂᓕᐊᓗᖕᒥ ᒪᕈᖕᒥᒃ 2 m ᒦᑖᖕᓂᒃ ᑕᑯᔭᐅᔪᖃᓚᐅᖅᑐᖅ ᓯᑰᑉ ᐊᑖᓂ ᑕᒫᓂ 2019-ᒥ.

ᐱᐅᓯᖃᖅᑐᓂᒃ ᑲᑎᖅᓱᐃᕙᖕᓂᖅ ᐊᒻᒪᓗ ᐃᓕᑕᕆᔭᐅᕙᖕᓂᑦ ᐊᔾᔨᒋᖏᑑᑏᑦ ᐆᒪᔪᐃᑦ ᒥᑭᔫᑎᐅᓂᖅᓴᐅᕙᖕᓂᖏᓐᓂ ᓂᕿᒃᓴᕆᔭᐅᕙᖕᓂᖏᑦ ᐃᓚᒋᐊᖅᑕᐅᕙᓪᖅᑐᑦ ᐊᑐᖅᑕᐅᓗᑎᒃ ᑎᒥᖏᓐᓂ ᖃᓄᐃᓕᖓᓂᖏᑦ ᑕᑯᒃᓴᐅᔪᓐᓇᕐᒪᑦ ᐱᑕᓕᐊᔫᓕᖏᑦ ᑕᑯᒃᓴᐅᕙᖏᑎᑦ ᐊᔾᔨᒋᖏᑦᑑᑏᑦ ᐱᕈᑕᐅᔪᓪᓗ ᐆᒪᔪᖃᑕᐅᔪᓪᓗ. ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐱᑕᖃᕋᔪᐃᑦᑐᒻᒪᕆᖕᓂᒃ ᐱᕈᖅᐸᒃᑐᑦ ᓇᓂᔭᐅᓚᐅᖅᑐᑦ ᑕᐅᕙᓂ ᐃᓚᖓᒥ ᐃᒪᕐᒥ ᓯᒡᔭᖅᐸᓯᐅᓂᐅᑉ ᑕᕆᐅᖏᓂᖓᓂ ᑕᐅᕙᓂ Milne-ᐅᑉ ᓯᑯᐃᓐᓈᓗᓂᖓᓂ (Thaler et al. 2017), ᓯᕿᓂᕐᒧᑦᑕᐅᖅ ᐆᒫᔪᓐᓇᕐᓂᖏᑦ ᖁᐱᕈᐃᑦ ᐱᑕᓕᐊᔫᕙᓚᐅᕐᒥᔪᑦ ᑕᕆᐅᑐᖃᓗᖕᒥ ᐃᒪᕐᓂ ᓯᒡᔭᖅᐸᓯᖕᒧᑦ ᖃᓂᓐᓂᖏᓐᓂ ᑕᐅᕙᓂ ᐅᐊᖕᓇᖅᐸᓯᖓ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ (ᓱᕐᓗ, Labbé et al. 2020). ᑐᑭᓯᓂᐊᕈᑕᐅᒐᒥᒃ ᓯᑯᐃᑦ ᕿᑭᖅᑕᒐᓴᐃᑦ ᐃᔭᐃᕕᐅᓯᒪᔪᓂᒃ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᖏᓐᓂᒃ ᐱᖃᓗᔭᕈᖅᓯᒪᔪᓂᒃ, ᖃᐅᔨᔭᐅᓚᐅᖅᑐᑦ ᐱᑕᖃᔪᐃᑦᑐᒻᒪᕆᖕᓂᒃ ᐆᒪᔪᖃᕐᓂᖏᓐᓄᑦ ᐱᕈᖅᑐᖃᕐᕕᐅᕙᖕᓄᖏᓄᓪᓗ, ᐊᒻᒪᓗ ᓄᑖᓂ ᐱᑕᖃᓕᕐᒥᔪᓂ ᓂᒡᓕᓇᖅᑑᒦᑐᒪᕙᒃᑐᑦ ᐱᕈᕈᓇᖅᑐᑦ yeast-ᖑᓂᕋᖅᑕᐅᔪᑦ ᐅᖃᐅᓯᐅᖃᑦᑕᖅᓯᒪᒋᕗᑦ ᐱᑕᖃᕐᓂᖏᓐᓂ ᑕᒫᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ (Tsuji et al. 2018). ᑕᒪᒃᑯᐊ ᖃᐅᔨᓴᖅᑕᐅᕙᖕᓂᖏᑦ, ᑭᓯᐊᓂᓕ, ᐱᒋᐊᓕᓵᑦᑎᐊᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᑲᔪᓯᕙᓪᓕᐊᖏᓐᓇᖅᑐᓂᒃ ᐱᕙᓪᓕᐊᔪᓐᓇᕐᓂᖏᑦ ᐱᕈᓐᓇᖅᓯᕙᓪᓕᐊᓂᖏᑦ ᓱᓕ ᐱᑯᒃᓴᖃᕈᑕᐅᔭᕆᐊᓖᑦ ᑐᑭᓯᓂᐊᕈᑕᐅᔭᕆᐊᖃᕐᓂᕐᒧᑦ ᐊᔾᔨᒋᖏᓂᖃᕐᓂᖏᓐᓂᒃ ᖁᐱᕈᖃᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐊᑑᑎᖃᖅᐸᖕᓂᖏᓐᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐱᑕᖃᓲᖑᖏᓐᓂ.

ᑎᑎᕋᕈᑕᐅᖃᑦᑕᖅᓯᒪᕗᑦ ᑎᖕᒥᐊᒐᓴᖃᕐᓂᖏᑦ ᓯᒡᔭᖅᐸᓯᐅᓂᖏᓐᓂ (ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᑕᑯᑎᑦᑎᕕᖕᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂᒃ 2- ᑕᐃᑲᖓᑦ Vincent et al. 2011) ᐊᒻᒪᓗ ᐊᔾᔨᒌᖏᓐᓂᖏᓐᓂᒃ ᐃᖃᓗᒐᓴᖃᓲᖑᓂᖏᑦ ᐅᓂᒃᑳᖅᑕᐅᖃᑦᑕᖅᓯᒪᕗᑦ; ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐅᓂᒃᑳᓕᐊᖑᓯᒪᔪᓂᒃ ᐱᑕᖃᕐᓂᕐᒥᒃ ᑕᑭᓂᓕᖕᒥᒃ 1 m ᒦᑕᒥᒃ ᓇᑖᕐᓇᑯᑖᕋᐊᓗᑦ ᑕᐅᕙᓂ Disraeli Fiord ᑲᖏᖅᑐᖓᓂ (G. Hattersley-Smith, DND, pers. comm.), ᐊᒻᒪᓗ ᓇᐅᔮᕙᑦ ᑕᑯᔭᐅᖃᑦᑕᕐᓂᖏᑦ ᖁᓚᐅᑦᑐᑦ Milne-ᐅᑉ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᐊᒍᑦ (D. Mueller, Carleton University, pers. comm.).

ᖃᐅᔨᒪᔭᐅᑦᑎᐊᖏᑦᑐᒪᕆᐅᕗᑦ ᐊᔾᔨᒌᖏᑦᑐᓂᒃ ᐃᖃᓗᖃᕐᓂᖓᓂᒃ ᐊᒻᒪᓗ ᖃᓄᑎᒋ ᐱᑕᖃᕐᓂᖏᓐᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᐊᕙᓗᐊᓂᓗ. ᐱᓗᐊᖅᑐᒥᒃ, ᐅᑭᐅᖅᑕᖅᑑᓂᕐᒥ ᐆᒪᐃᑦ ᐊᒻᒪᓗ ᐅᐊᖕᓇᖓᓂ ᐆᒪᐃᑦ ᐃᖃᓗᒃᐲᓪᓗ ᑲᓇᔪᐃᓪᓗ ᐊᒻᒪᓗ ᐊᑯᑭᑦᑐᕐᒧᐊᖃᑦᕐᒥᔪᑦ ᖃᓕᕋᓛᑦ ᓇᑖᕐᓇᐸᐅᔭᐅᓂᖅᓴᐃᑦ ᐱᑕᖃᕐᒥᔪᑦ ᑕᒫᓂ ᓄᓇᖑᐊᖅᑎᒍᑦ ᓈᓴᐅᑎᖃᖅᑐᒥ 83 °N-ᑲᓇᖕᓇᖅᐸᓯᖕᒥ, ᐃᓗᐊᓂ ᑭᒡᓕᖃᕐᕕᖓᑕ ᑐᕙᐃᔪᐃᑦᑑᑉ (ᑕᑯᓗᒋᑦ ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᑕᑯᑎᑦᑎᔾᔪᑎᖏᑦ 6 ᖓᓂ ᑕᐃᑲᖓᑦ ᑎᑎᕋᖅᓯᓯᒪᔭᖏᓐᓂ Charette et al. 2020). ᓄᓇᕐᔪᐊᓕᒫᒥ ᑲᑐᔾᔨᖃᑎᒌᑦ ᐱᐅᓯᑐᖃᓇᔭᐅᔪᓂᒃ ᓴᐳᓐᓂᐊᖅᑎᐅᓂᕐᒧᑦ (IUCN-ᑯᑦ) ᐅᖃᐅᓯᖃᖅᓯᒪᔪᑦ ᐃᓚᖏᓐᓂᒃ ᑐᕙᐃᔪᐃᑦᑑᑉ ᑕᕆᐅᖓᓂ ᐱᓇᑕᖃᓲᖑᓂᖏᓐᓂ ᐃᖃᓗᒡᔪᐊᑦ (IUCN 2020)*. ᑕᐅᕙᓂ* Nansen Sound-ᒥᑦᑕᐅᖅ ᐊᒥᓱᐊᓘᕙᖕᒥᔪᑦ ᐃᒪᕐᒥᐅᑕᐃᑦ ᐃᖃᓗᒐᓴᐃᑦ, ᐱᓗᐊᖅᑐᒥᒃ ᑕᒪᒃᑯᐊ ᐊᔾᔨᒌᖏᓐᓂᖏᑦ ᑲᓇᔪᐃᑦ ᐊᒻᒪᓗ ᓂᒥᓇᐊᖑᔭᐃᑦ - Glacial Eelpout ᑎᑎᕋᕈᑕᐅᓚᐅᖅᑐᑦ ᑲᓇᑕᒥ ᐃᑎᔪᐊᓗᓂᖏᓐᓂ ᐃᒪᕐᓂ, ᓯᓚᑎᑦᑎᐊᖓᓂ ᑐᕙᐃᔪᐃᑦᑑᑉ (ᑲᒪᒋᔭᐅᓗᑎᒃ ᑦᓴᓇᐊᑦᑯᓐᓄᑦ ᐃᓚᒋᔭᖏᓄᓪᓗ ᑕᑯᓗᒋᑦ ᐊᕕᒃᑐᖅᓯᒪᔪᓂᒃ ᑕᑯᑎᑦᑎᔾᔪᑎᑦ 6- ᑕᐃᑲᖓᑦ ᑎᑎᕋᖅᑕᖏᓐᓂᒃ Charette et al. 2020). ᓇᓚᐅᑖᕈᑕᐅᓯᒪᒧᑦ ᐃᒪᐃᑦ ᐃᑎᓂᖏᓐᓂ ᓈᒻᒪᖕᓂᖏᑦ ᐱᑕᖃᕐᕕᐅᔪᓐᓇᕐᓂᖅ ᐊᖏᔫᑎᐅᓂᖅᓴᓂᒃ ᓇᑖᕐᓇᖕᓂᒃ (ᖃᓕᕋᓕᖕᓂᒃ) ᑕᒃᑯᐊ ᐱᑕᖃᕋᔪᒃᓱᑎᒃ ᓯᑯᐊᓘᑉ ᐊᑖᓂ, ᐱᑕᖃᕋᓱᒋᔭᐅᓚᓗᐊᖅᓱᑎᒃ, ᑕᑯᔭᐅᔪᖃᖏᖅᓯᒪᖏᓚᖅ (Coad and Riest 2018, K. Hedges, DFO, pers. comm.).

ᑐᕙᐃᔪᐃᑦᑐᑉ ᐃᓚᖓᑦ ᐃᖃᓗᒃᐲᑦ ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᑕ ᐅᐊᖕᓇᖅᐸᓯᐊᓂ ᐊᒻᒪᓗ ᑕᐅᕙᓂ ᐃᒪᕐᓂᓕ Nansen Sound-ᒥ ᐊᒻᒪᓗ Greely Fiord-ᒥ (Coad and Reist 2004, 2018). ᐱᒻᒪᕆᐅᔪᓂᒃ ᑰᒃᑕᖃᖏᒻᒪᑦ ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᑭᓯᐊᓂ ᐃᓚᖏᑦ ᑕᓲᑦ ᐊᐅᓚᕙᒃᐳᑦ ᑕᕆᐅᖑᓂᖓᓄᑦ

ᐃᖃᓗᓕᖃᕐᕕᐅᓂᖏᓐᓄᑦ ᓈᖃᑦᑕᖅᑐᒃᓴᐅᔪᓂᒃ ᑕᕆᐅᒧᑦ ᐃᒪᕐᓄᑦ ᐊᒻᒪᓗ ᑕᕆᐅᖑᖏᑦᑐᓄᑦ ᐃᒪᕐᓄᑦ (Veillette et al. 2012). ᑕᒪᒃᑯᐊ ᐃᖃᓗᒃᐲᑦ ᐃᖃᓗᒃᓯᐅᖅᑕᐅᓂᖅᐸᖑᕙᒃᓱᑎᒃ ᓄᓇᕗᒻᒥ, ᑮᓇᐅᔭᓕᐅᕈᑕᐅᓂᖏᓐᓄᑦ ᐃᓈᔾᔪᑎᒃᓴᐅᔪᓐᓇᕐᓂᖏᓐᓄᓪᓗᓐᓃᑦ ᐃᖃᓗᒃᓯᐅᕐᕕᖃᖏᓚᑦ ᑕᐅᕙᓂ ᐃᓗᐊᓂ ᐅᕝᕙᓗᓐᓃᑦ ᖃᓂᒋᔭᓂ ᑐᕙᐃᔪᐃᑦᑑᑉ (Nunavut 2016). ᒫᓐᓇᐅᔪᖅ ᖃᐅᔨᓴᕈᑎᓕᔭᖅᑐᑦ ᐱᔪᓐᓇᐅᑎᖃᖅᑎᑐᑦ ᐊᐅᓚᑦᑎᔪᓐᓇᖅᑐᑦ ᑕᐅᕗᖓᐅᕙᖏᑦᑐᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒧᑦ (Nunavut 2016).

ᑕᕆᐅᕐᒥᒃ ᓂᕿᒃᓴᖅᓯᐅᖅᐸᖕᓂᖏᑦ ᑎᖕᒥᐊᒐᓴᖃᖅᐳᖅ ᑭᓯᐊᓂ ᐊᒥᓲᑎᒋᖏᑦᑐᑦ ᐊᓯᖏᓐᓂᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᓕᖏᓐᓂ ᓂᒋᐊᓃᑦᑐᓂᒃ, ᐃᒻᒪᖃ ᐱᔾᔪᑕᐅᓂᖓᓄᑦ ᒪᑐᐃᖓᖏᓂᖅᓴᐅᕙᖕᓂᖓᓄᑦ ᐃᒪᖃᕐᓂᖓᓂ (ᓲᕐᓗ ᑕᐃᒃᑯᓂᖓ ᐊᐅᒃᑲᓐᓂᖓᔪᓂᒃ, ᓯᓈᓂᒃ) ᐱᑕᖃᕐᕕᐅᒐᔪᒃᑐᓂᒃ ᐅᓪᓗᖃᓕᖃᑦᑕᖅᑐᓄᑦ ᑎᖕᒥᐊᖃᕐᕕᐅᕙᒃᑐᓂ. ᑐᕙᐃᔪᐃᑦᑐᖅᑕᐅᖅ ᐊᒥᓱᒐᓴᖕᓄᑦ ᑲᓇᑕᓕᒫᒥᓗ ᓄᓇᕐᔪᐊᕐᒥᓗ ᐱᒻᒪᕆᐅᔪᓂᒃ ᐆᒪᔪᖃᕐᕕᐅᕙᒃᐳᖅ (CAFF 2013). ᓇᐅᔭᕚᓪᓗ ᑕᐃᒃᑯᐊᓗ ᓯᐊᕐᓈᖓᔪᓖᑦ ᓇᐅᔭᕙᖑᔭᖅᑐᑦ ᐃᓕᑕᕆᔭᐅᓯᒪᕗᑦ ᐊᒥᔅᓱᖏᓗᐊᓕᕐᓂᖅ ᑲᓇᑕᒥ (COSEWIC 2006) ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᑭᓯᐊᓂ ᐊᒥᔅᓱᓂᖏᑦ, ᓇᓃᖃᑕᕐᓂᖏᑦ, ᐊᒻᒪᓗ ᐊᑐᖃᑦᑕᕐᓂᖏᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕕᐅᓂᖓᓂᒃ ᓱᓕ ᖃᐅᔨᒪᔭᐅᖏᑦᑐᑦ. ᖃᐅᔨᒪᔭᐅᔪᑑᓪᓗᑎᒃ ᓯᐊᕐᓇᐅᓂᖅᓴᐃᑦ ᓇᐅᔭᕙᖑᔭᕐᓂᖏᑦ ᓇᐅᔭᐃᑦᖅ ᓂᒋᕐᒦᒻᒪᑕ, ᑕᒪᒃᑯᐊ ᓇᐅᔭᐃᑦ ᒪᓕᒃᑕᐅᖃᑦᑕᖅᓯᒪᔪᑦ ᑎᑎᕋᕈᑕᐅᕙᓪᓕᐊᖏᓐᓇᖅᑐᓂᒃ ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ (J. Provencher, ECCC, pers. comm.). ᐃᒥᖅᑯᑕᐃᓚᐃᑦ ᐊᒻᒪᓗ ᓇᐅᔭᐃᑦ ᑕᒪᕐᒥᒃ ᑎᑎᕋᖅᑕᐅᓯᒪᖏᑦᑑᒐᓗᐊᑦ ᐆᒪᔪᐃᑦ ᐊᒥᔅᓱᖏᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᒪᓕᒐᕐᓄᑦ ᑭᓯᐊᓂ ᐊᒥᔅᓱᔪᓐᓃᖅᐸᓪᓕᐊᓯᒪᓕᕆᕗᑦ ᑲᓇᑕᒥ. ᑕᒪᕐᒥᒃ ᑖᒃᑯᐊ ᓯᑯᓂᕐᒦᖃᑦᑕᖅᐳᑦ ᐊᒻᒪᓗ ᐅᓪᓗᖃᓲᖑᓪᓗᑎᒃ ᓂᒋᐊᓂ ᑐᕙᐃᔪᐃᑦᑑᑉ (Mallory et al. 2020), ᑕᐃᒪᐃᓂᖓᓄᑦ, ᓯᑯᒦᖃᑕᐅᕙᖕᓂᖏᑦ ᓂᕿᓴᖃᕐᓂᖅᓴᐅᓂᐊᖅᑐᒃᓴᐅᔪᑦ ᓂᓇᔭᒃᓴᖃᕐᕕᒋᕙᒃᑕᖏᓐᓂᒃ ᑕᒫᓂ ᐊᕐᕋᒍᓴᐅᔪᓂ ᖁᓕᐅᓈᖅᑎᖅᓯᒪᓂᐊᖅᑐᓂ ᐊᕐᕋᒍᓂᐊᖅᑐᓂ.

ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐊᕙᑎᖏᑦ ᐊᕙᑎᒥᐅᑕᖓᓪᓗ ᐃᓚᒋᔭᐅᔪᑦ ᓯᒡᔭᖅᐸᓯᖓᓄᑦ ᓄᓇᒧᑦ, ᐊᒻᒪᓗ ᓯᑯᓯᒪᓂᖏᓐᓄᑦ ᑲᓇᖕᓇᖅᐸᓯᖓᓂ ᐊᒻᒪᓗ ᐱᖓᖕᓇᖅᐸᓯᖓᓂ. ᐱᓗᐊᖅᑐᓂᒃ ᑕᐅᕙᓂ ᐊᑯᑭᑦᑐᐃᑦ ᓄᓇᖓᑕ ᐅᐊᖕᓇᖓᓂ ᓯᒡᔭᖓ ᐃᔾᔪᔪᒻᒪᕆᒃ ᓯᑯᐃᓐᓇᐅᓂᖓᓄᑦ, ᑕᐃᒃᑯᐊ ᑲᖏᖅᑐᖏᓪᓗ, ᐸᓂᕐᓂᖏᓪᓗ ᓄᓇᐃᑦ, ᐊᔾᔨᖃᑲᓴᒃᐳᑦ ᖃᓄᐃᓕᖓᓂᖓᓂᒃ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᐃᓚᔭᐅᓪᓗᑎᒃ ᑕᒪᐃᓐᓂᒃ ᐊᕙᑎᖏᓐᓄᑦ ᐊᕙᑎᒥᐅᑕᕆᕙᒃᑕᖏᓄᓪᓗ.

ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᑦ

- ᐃᖃᓗᒐᓴᖃᕐᓂᖏᑦ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᖏᑦᑐᑦ ᑕᕙᐃᔪᐃᑦᑐᕐᒥ. ᐆᒐᐃᑦ ᓯᑯᓕᖕᒦᑉᐸᒃᑐᑦ ᐱᒻᒪᕆᐅᓪᓗᑎᒡᓗ ᓂᕿᒃᓴᕆᔭᐅᖃᑕᐅᕙᖕᓂᕐᒧᑦ ᐊᖏᔫᑎᐅᓂᖅᓴᓂᒃ ᓴᖏᓂᖃᖅᓴᐅᔪᓄᓪᓗ ᐆᒪᔪᑦ ᐅᑭᐅᖅᑕᖅᑐᕐᒥ ᑕᕆᐅᖏᓐᓂ ᓂᕿᒃᓴᖅᓯᐅᖃᑕᐅᕙᒃᑐᓄᑦ ᐃᓚᒋᔭᐅᓗᑎᒃ. ᑕᒪᐃᓐᓂᑦᑎᐊᖅ ᖃᐅᔨᒪᔭᐅᖏᓐᓂᖃᖅᐳᑦ ᐅᑭᐅᖅᑕᖅᑐᕐᒥ ᐆᒐᐃᑦ ᐊᓯᖏᓪᓗ ᐃᒪᕐᒥᐅᑕᐃᑦ ᐃᖃᓗᒐᓴᐅᕙᒃᑐᑦ ᑐᕙᐃᔪᐃᑦᑐᒥ. ᐱᒻᒪᕆᐅᔪᓂᒃ ᑰᒃᑕᖃᖏᓚᖅ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ; ᑕᐃᒪᐃᓂᖓᓄᑦ ᑕᒫᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᑕᒪᓐᓇ ᐱᑕᖃᕐᕕᐅᓗᐊᓕᕈᓐᓇᕋᔭᖅᑐᔾᔭᖏᓚᖅ ᐃᖃᓗᖕᐱᖕᓄᑦ ᓯᑐᕙᒃᑐᓂᒃ ᑰᖕᓂᒃ ᑕᕆᐅᕐᒧᑦ ᒪᓐᓃᔭᖃᑕᕐᓂᖏᓐᓄᑦ.

- ᑎᖕᒥᐊᖃᕐᕕᐅᕙᖕᓂᖏᑦ ᓂᕿᒃᓴᖅᓯᐅᕐᕕᐅᕙᖕᓂᖏᓄᓪᓗ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓄᑦ ᑎᖕᒥᐊᕐᓂᒃ ᑕᑯᔭᐅᕙᖕᓂᖏᓐᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᖅᐳᑦ, ᑕᐃᒃᑯᐊᓗᓐᓃᑦ ᓇᐅᔮᕙᑦ ᐊᒻᒪᓗ ᓯᐊᕐᓈᐅᓂᖅᓴᐅᕙᒃᑐᑦ ᓇᐅᔭᐃᑦ, ᑕᒪᐃᓐᓂᒃ ᐃᓕᑕᕆᔭᐅᓯᒪᔪᒃ ᐊᒥᔅᓱᖏᓗᐊᓕᕐᓂᖏᓐᓂ ᑎᖕᒥᐊᕐᑯᑎᖏᓐᓂ ᑲᓇᑕᐅᑉ. (COSEWIC 2006).

- ᑕᐃᓐᓇ ᐃᒪᕐᒥ ᑕᖃᒪᓂ ᐃᒪᒃᑯᕈᑦ ᐊᖅᑲᖅᑎᑕᐅᓯᒪᓂᖓᓂ ᐱᓕᕆᓂᖏᓐᓂ ᐊᒥᓱᓂᒃ ᐃᖃᓇᐃᔭᖃᖅᑐᑦ ᐅᑭᐅᖅᑕᖅᑐᒥᒃ ᐱᓕᕆᐊᖃᕐᓂᕐᒧᑦ ᐊᕿᐅᒪᓂᖏᑦ – ᑭᖑᓪᓕᕐᒥ ᓯᑯᓯᒪᕝᕕᐅᓂᐊᖅᑐᑦ ᑕᐃᒫᒃ ᖃᐅᔨᓚᐅᖅᑐᑦ ᐊᒥᔅᓱᓂᖏᓐᓂᒃ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᑕᕆᐅᕋᓗᑉ ᓇᑎᐊᓂᕐᒥᐅᑕᐅᕙᒃᑐᓂᒃ ᖁᑉᐱᕐᕈᕐᓂᒃ, ᑕᐃᒃᑯᓂᖓᓗ ᐱᕈᐊᓚᐃᑦᑐᒻᒪᕆᐊᓗᖕᓂᒃ ᐊᓕᒐᕐᑐᖅᑐᓂᒃ ᐱᕈᖅᐸᒃᑐᓂᒃ ᐱᑕᖃᕆᓪᓗᑎᒃ. ᖃᐅᔨᒪᔭᐅᖏᑦᑎᐊᒻᒪᕆᒃᐳᑦ ᐊᔾᔨᒌᖏᑐᖃᕐᓂᖏᑦ ᖃᓄᐃᑦᑐᑐᐃᓐᓇᕐᓂᒃ, ᐊᒥᓱᓂᖃᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᓱᑯᑦᑎᖏᓃᖃᑕᕐᓂᖏᓐᓂ ᑕᕆᐅᑉ ᓇᑎᐊᓂᕐᒥᐅᑕᐅᕙᖕᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᐊᒻᒪᓗ ᐊᑕᖃᑕᐅᓂᖏᓐᓂᒃ ᑕᕆᐅᕋᓗᑉ ᓯᑯᓂᖓᓄᑦ, ᐊᒻᒪᓗ

ᑕᕆᐅᕐᒥ ᓂᕆᔭᒃᓴᕆᔭᐅᕙᓪᓕᐊᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᓄᖅ ᐊᑑᑎᖃᖅᐸᖕᒪᖔᑖ ᑕᕆᐅᕐᒥᐅᑕᓄᑦ ᐆᒪᔪᓄᑦ ᐊᒻᒪᓗ ᑎᖕᒥᐊᕐᓄᑦ.

- ᒫᓐᓇᐅᔪᖅ ᑐᕙᐃᔪᐃᑦᑑᑉ ᖃᐅᔨᒪᔭᐅᓂᖏᑦ ᑐᖓᕕᖃᖅᐳᖅ ᐊᒥᔅᓱᖏᑐᒻᒪᕆᖕᓂᒃ ᑕᑯᔭᐅᖃᑕᕐᓂᖏᓐᓂᒃ, ᑕᐃᒃᑯᓂᖓᐅᖏᑦᑐᖅ ᐊᕙᑎᓂᒃ-ᐊᕙᑎᒥᐅᑕᖏᓐᓂᒡᓗ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᓂᒃ ᐊᒻᒪᓗ ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᐅᑕᕆᔭᐅᔪᓂᒡᓗ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᖕᓂᖏᓐᓂᐅᖏᒻᒥᔪᖅ. ᐊᔾᔨᖃᖏᓂᖓᓂ ᑕᒪᑐᒪ ᓇᔪᖓᕆᔭᐅᕙᖕᓂᖓᑕ ᐊᒻᒪᓗ ᐊᔾᔨᒋᖑᑐᑎᖃᕐᓂᖓᓄᑦ ᐆᒪᔪᖓᓴᐅᕙᒃᑐᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐃᓱᒪᓇᖅᐳᑦ ᐊᒥᓱᓂᒃ ᐊᔾᔨᒋᖏᑑᑎᓂᒃ ᐆᒪᔪᖃᕐᕕᐅᓂᖓᓂᒃ. ᑭᓯᐊᓂᓕᑦᑕᐅᖅ ᑕᒪᒃᑯᐊ ᐊᔾᔨᖃᖏᓂᖏᑦ ᓇᔪᖓᕆᔭᐅᕙᖕᓂᖏᑦ ᐊᕙᑎᖏᓪᓗ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓪᓗ ᖃᓄᐃᑦᑐᖃᕐᓂᖏᑦ ᓱᓕ ᖃᐅᔨᒪᔭᐅᓗᑎᒃ ᑎᑎᕋᕈᑕᐅᓯᒪᖏᓚᑦ ᐅᕝᕙᓗᓐᓃᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᖃᓄᐃᑦᑑᓂᖏᓐᓂᓗ ᓱᓕ ᑎᑎᕋᕈᑕᐅᓯᒪᑦᑎᐊᖏᓚᑦ.

ᐊᓱᖏᑦᑕᐅᖅ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑎᒃᓴᐃᑦ

- ᑐᕙᐃᔪᐃᑦᑐᖅ ᐃᓚᒋᔭᐅᕗᖅ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᖏᓛᖑᓂᖏᓐᓄᑦ ᐊᕙᑎᖏᓐᓂ ᐊᕙᑎᒥᐅᑕᖏᓐᓂᓗ ᐅᑭᐅᖅᑕᖅᑐᒥ. ᑕᒪᓐᓇ ᐊᔾᔨᖃᖏᒪᑦ ᐊᕙᓗᐊᓗ ᐊᕙᑎᒥᐅᑕᖏᓪᓗ ᑕᐃᑯᐊ ᐱᑕᖃᖅᓱᑎᒃ ᐊᒥᓱᒪᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐃᓐᓇᐅᔪᑦ ᐱᑕᖃᐃᓐᓇᕐᓂᐊᕋᓱᒋᔭᐅᓪᓗᑎᒃ ᓱᒃᑲᓕᔪᐊᓘᒐᓗᐊᕐᒥᒃ ᓄᖑᓴᖅᐸᓕᐊᓕᖅᑎᓪᓗᒋᑦ ᐊᖏᔫᑎᐊᓄᐃᑦ ᐃᓚᒋᔭᐅᔪᑦ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓄᑦ. ᑐᕙᐃᔪᐃᑦᑐᖅ ᓱᓕ ᕿᒫᓯᒪᕝᕕᐅᔪᔭᕈᓐᓇᖅᐳᖅ ᓯᑯᒥᑐᓐᓇᕆᐊᓕᖕᓄᑦ ᐆᒪᔪᑦ ᓯᑯᓂᐊᓗᐊ ᓄᖑᑉᐸᓪᓕᐊᒐᓗᐊᕐᒥᑎᓪᓗᒍ.
- ᖃᐅᔨᒪᔭᐅᖏᓗᐊᖅᑐᖃᖅᐳᖅ ᐊᒥᓱᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᑕᐃᑯᓂᖓᓗ ᐃᓚᒋᔭᐅᔪᒐᓴᐅᓂᖏᓐᓂ ᐊᕙᑎᖏᓐᓄᑦ, ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓐᓂᓗ, ᖃᓄᕐᓗ ᐋᕿᐅᒪᓂᖃᕐᓂᖏᓐᓂᒃ, ᖃᓂᒋᔭᖏᓐᓂᓗ ᐅᖓᓯᒃᑐᒥᓗ ᑕᕆᐅᕐᓄᑦ ᐃᓚᒋᔭᐅᕙᖕᓂᖏᑦ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥ ᓯᑯᐃᓐᓇᐅᓂᖏᓐᓂ ᐱᐅᓯᕆᔭᐅᔪᑦ, ᐊᑕᖃᑕᐅᓂᖏᓪᓗ ᐊᓯᖏᓐᓄᑦ ᐊᕙᑎᒋᔭᐅᔪᓄᑦ (ᓱᕐᓗ North Water-ᒥ ᐅᑭᐅᖅᑕᖅᑑᑉ ᐃᒫᓗᐊᓂ, ᑐᒃᑐᔭᖅᑑᑉᓗ ᑕᕆᐅᖓᑕ ᑲᐃᕖᓐᓇᖅᑐᓂᒃ ᐊᐅᓚᕙᓪᓕᐊᖏᓐᓇᕐᓂᖓᓄᑦ) ᐊᒻᒪᓗ ᐊᕐᕋᒍᒥ ᖃᓄᐃᓕᖓᓕᖃᑕᕐᓂᖓᓂᒃ. ᖃᐅᔨᒪᓂᕆᔭᕗᑦ ᑕᒪᑯᓂᖓ ᐊᖏᔫᖏᓚᑦ, ᑕᒪᓐᓇ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᑦ ᐊᖏᔪᒻᒪᕆᐊᓘᑎᓪᓗᒍ.
- ᑎᑎᕋᕈᑕᐅᓯᒪᓂᖏᑦ ᐊᒥᓱᒪᓴᖕᓂᒃ ᐊᐃᕕᑕᖃᕐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑐᒫᓕᖕᓂᒃ ᕿᓚᓗᒐᖃᕐᓂᖏᑦ ᑕᐅᕙᓂ Archer Fiord ᑲᖏᖅᑐᖓᓂ, ᐅᐊᖕᓇᖅᐸᓯᐅᓂᕐᒦᓐᓂᖅᓴᐅᔪᓂ ᓯᕗᓂᐊᒍᑦ ᑎᑎᕋᕈᑕᐅᓯᒪᔪᑐᖃᐅᓂᖏᓐᓂᒃ, ᑕᑯᒃᓴᐅᕗᑦ ᖃᓄᖅ ᖃᐅᔨᒪᔭᐅᖏᑎᒋᓂᖓᓂᒃ ᐆᒪᖃᕐᕕᐅᕙᖕᓂᖓ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᐊᑐᖃᑦᑕᕐᓂᖏᓐᓂᓗ ᑕᐅᕙᓂ ᓄᓇᖓᓂᒃ. ᒫᓐᓇᓵᖑᓕᖅᑐᖅ ᖃᐅᔨᔭᐅᕙᓪᓕᐊᓂᖏᑦ ᐊᔾᔨᒌᖏᑑᓕᕐᓂᖏᓐᓂᒃ ᐱᑕᖃᓕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᓂᕆᐅᒋᔭᐅᓚᐅᖏᑦᑐᓂᒃ ᐊᒥᓱᐊᓘᓂᖏᑦ ᑕᕆᐅᕋᓗᖏ ᓇᑎᐊᓂᕐᒥᐅᑕᖃᕐᓂᖏᑦ ᑕᐅᕙᓂ ᑐᑭᓯᓇᕈᑕᐅᔫᕆᓇᕗᑦ ᐱᒻᒪᕆᐅᓂᖃᕐᓂᖏᓐᓂᒃ ᑕᐃᒃᑯᐊ ᓯᑯᒥ-ᑕᕆᐅᕐᒥᓗ ᐃᒪᕐᒥ-ᕐᑯᐸᐱᕐᕈᐃᑦ ᓴᐅᓂᖃᖏᑦᑐᑦ ᓇᑎᐊᓂᕐᒥᐅᑕᐃᓪᓗ ᐃᖃᖓᓂ ᐱᑕᖃᓱᖑᓂᖏᑦ ᓯᑯᐃᓐᓇᐅᓂᖓᓄᑦ ᐊᒻᒪᓗ ᑐᑭᓯᓇᕈᑕᐅᓗᑎᒃ ᖃᐅᔨᒪᖏᓗᐊᕐᓂᑦᑎᓐᓂᒃ ᑕᒪᑐᒥᖓ ᐅᖓᓯᒃᑐᒥᒃ ᐊᕙᑎᖓᓂᒃ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖓᓂᓪᓗ.
- ᑲᔪᓯᔪᒥᒃ ᐊᕙᑎᖓᓂᒃ ᐊᕙᑎᒥᐅᑕᕆᔭᐅᔪᓂᓕᓪᓗ ᖃᐅᔨᓴᖅᑕᐅᖃᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᓪᓕᐊᖃᑕᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐊᓯᔾᔨᖅᐸᓕᐊᓂᖏᓐᓂᒃ ᖃᐅᔨᓴᖅᑎᓄᑦ ᑐᖓᕕᐅᔪᓐᓇᖅᓯᓂᐊᖅᑐᑦ ᐃᑲᔪᖅᓱᐃᓗᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᐅᓚᑦᑕᐅᓂᖓᓄᑦ ᐃᓱᒪᒃᓴᖅᓯᐅᕈᑕᐅᔭᕆᐊᖃᕐᓂᖓᓄᑦ ᑐᕙᐃᔪᐃᑦᑑᑉ. ᑕᐃᒪᖓᑦ ᐊᑯᓂᐅᓂᐊᖅᑐᒧᑦ ᑐᕌᖓᔪᓂᒃ ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᐊᕙᑎᒥᐅᑕᓕᕆᓂᕐᒧᓪᓗ ᖃᐅᔨᓴᖅᑕᐅᓂᐊᖅᑐᑦ ᐱᒻᒪᕆᐅᑕᐅᓂᖏᓐᓂ ᐃᓂᖃᖅᑐᓂᒃ ᑲᔪᓯᔭᕆᐊᖃᖅᐳᑦ ᖃᐅᔨᔭᐅᕙᓪᓕᐊᔪᓐᓇᕐᓂᐊᕐᒪᑕ ᑐᕙᐃᔪᐃᑦᑑᑉ ᖃᓄᐃᓕᖓᓂᖓᓂᒃ ᑕᐃᒫᒃ ᖃᐅᔨᒪᔭᐅᓕᕈᓐᓇᕐᓂᐊᕐᒪᑕ ᐊᒃᑐᖅᑕᐅᓚᐅᖏᓂᖓᓂ ᓱᓕ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᐅᓂᕐᒧᑦ, ᑕᐃᒃᑯᓂᖓ ᑲᔪᓯᕙᓪᓕᐊᓂᖏᓐᓂᒃ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᔪᓂᒃ ᐊᒻᒪᓗ ᐱᐅᓂᖅᓴᓂᒃ ᓯᕗᓂᒃᓴᒥ ᓇᓚᐅᑖᖅᑕᐅᔪᓐᓇᕐᓗᑎᒃ ᖃᓄᐃᓕᕐᓂᖏᑦ ᑕᒫᓂ ᐊᔾᔨᖃᖏᑦᑐᒥ ᐊᕙᑎᖓᓂ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖓᓂᓗ.

- ᐊᑕᖕᒪᑦ ᑐᕙᐃᔪᐃᑦᑐᖅ ᓂᕈᑐᓂᖅᓵᓗᖕᒧᑦ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐃᓇᐅᔪᓄᑦ ᐊᕙᑎᓕᖕᓄᑦ ᐊᕙᑎᒥᐅᑕᖏᓄᓪᓗ ᐊᒻᒪᓗ ᑕᒪᐅᖓ ᓯᒡᔭᒧᑦ ᐊᒻᒪᓗ ᐊᖏᔪᒥᒃ ᑕᕆᐅᖑᓂᖓᓄᑦ ᐱᔾᔪᑕᐅᔭᕆᐊᖃᖅᐳᖅ ᑲᑐᔾᔨᖃᑎᒌᒐᓱᐊᕈᑕᐅᔭᕆᐊᖃᕐᓂᐊᓄᑦ ᐱᓕᕆᐊᖑᓗᑎᒃ ᐱᖓᓐᓇᖅᐸᓯᖕᒥᐅᑕᐅᔪᓄᑦ ᑕᐃᒃᑯᓂᖓ ᐃᓚᖃᕐᓗᑎᒃ ᓄᓇᑦᓯᐊᕐᒥᐅᑕᓂᒃ ᐊᒻᒪᓗ ᐃᓄᕕᐊᓗᖕᓂᒃ ᓄᓇᑖᖃᑕᐅᓯᒪᔪᓂᒃ, ᑕᐅᕙᓂ ᓂᒋᐊᓂᒃ ᕐᑯᑦᑎᓂᖅᐸᑉ ᑲᓇᑕᓕᒫᒥ ᒥᕐᖑᐃᖅᓯᕐᕕᖓᓂᒃ, ᓄᓇᕗᒻᒥ ᐊᒻᒪᓗ ᑲᓇᖕᓇᖅᐸᓯᖓᓄᑦ ᑕᐃᑯᓂᖓ ᐅᑭᐅᖅᑕᑑᓂᕐᒧᑦ ᑲᑎᒪᔨᕐᔪᐸᕐᓄᑦ, ᓴᓇᔭᐅᓂᖏᓐᓄᑦ ᐊᒥᓱᓂᒃ ᐃᖃᓇᐃᔭᖃᖅᑐᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥᒃ ᐱᓕᕆᐊᖃᕐᓂᕐᒧᑦ ᐊᕿᐅᒪᓂᖏᓂᒃ, ᐊᒻᒪᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖓᓄᑦ ᐱᓕᕆᐊᖑᓂᖏᓐᓄᑦ ᐊᑯᑭᑦᑐᐃᑦ ᑲᓚᓖᑦ ᓄᓇᖓᓄᑦ ᓱᕐᓗ ᑕᐃᒃᑯᐊ ᐃᓚᒋᔭᐅᓪᓗᑎᒃ ᐊᑯᑭᑦᑑᑉ ᐅᐊᖕᓇᖅᐸᓯᖓᑕ ᑲᓇᖕᓇᖓᓂ ᐊᕙᑎᖏᑦ ᐊᕙᒥᐅᑕᖃᕐᓂᖏᓐᓂᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖓᑦ (UNESCO 2014).

ᓇᓗᓇᕈᑕᐅᓂᖏᑦ

ᐱᓗᐊᖅᑐᒥᒃ ᓇᓗᓇᕈᑎᖃᖅᐳᖅ ᑐᕙᐃᔪᐃᑦᑐᖅ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᖏᓂᖏᓐᓄᑦ, ᑕᒪᐃᓐᓂᒃ ᐊᕙᑎᖓᓂᒃ ᐊᕙᑎᒥᐅᑕᖏᓄᓪᓗ ᐃᓚᒋᔭᐅᔪᓂᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ. ᑕᐃᒃᑯᐊᑐᐊᖑᖕᒪᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑑᑉ ᐱᔾᔪᑎᖃᖅᐳᑦ ᒫᓐᓇᓵᖅ ᐃᖃᓗᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᒪᒋᓯᒪᔭᖏᑦ ᐊᒥᓱᓂᒃ ᐃᖃᓇᐃᔭᖃᖅᑐᑦ ᐅᑭᐅᖅᑕᖅᑐᒥᒃ ᐱᓕᕆᐊᖃᕐᓂᕐᒧᑦ ᐊᕿᐅᒪᓂᖏᑦ – ᑭᖑᓪᓕᕐᒥ ᓯᑯᓯᒪᕝᕕᐅᓂᖓᓂᒃ ᓄᓇᑖᖃᑕᐅᕙᒃᓱᑎᒃ ᖃᓂᒋᔭᖏᓐᓂ ᑲᓇᑕᒥ ᐅᓇᑕᖅᑐᒃᓴᖃᖃᕐᕕᐅᓂᖓᓐᓂ (CFS) ᐊᓗᕐᒥᒃ ᑕᒫᓂ ᐅᐱᖓᖑᓚᐅᖅᑐᖅ 2018-ᒥ ᐊᒻᒪᓗ 2019-ᒥ (2020-ᒥ ᓄᓇᑖᓐᓂᐊᓚᐅᖅᑐᑦ ᐱᓕᕆᐊᒃᓴᐃᑦ ᓄᖃᖅᑎᑕᐅᓚᐅᕐᒪᑕ ᓄᕙᖕᓇᕐᔪᐊᖅ-19 ᐱᔾᔪᑕᐅᓪᓗᓂ; Michel and Lange 2018, Michel et al. 2019). ᓴᕿᑎᑕᐅᓚᐅᕐᓂᖏᑦ ᐱᓕᕆᐊᖑᓂᖏᓐᓂᑕᐅᖅ, ᑭᓯᐊᓂ, ᐅᖓᓯᑏᒃᑑᑎᐅᕗᑦ ᐊᒻᒪᓗ ᐱᕕᒃᑰᑐᓯᒪᓪᓗᑎᒃ (ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᑕᐃᒃᑯᐊ ᐅᓂᒃᑳᓕᐊᖏᑦ Lange et al. 2019, Kohlbach et al. 2020), ᐱᖏᑐᐊᕆᓗᒋᑦ ᑕᐃᒃᑯᐊ ᖃᖓᓱᒃᑯᑦ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᕐᓂᖏᑦ ᐊᒥᓲᓂᖏᑦ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᖏᑦ, ᐊᖏᓂᖃᖅᑐᒥ ᐊᕝᕙᓪᓕᐊᖓᓂᒃ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᐊᑕ ᐊᒻᒪᓗ ᑕᐅᕗᖓ ᑎᑭᐅᒪᓗᓂ Nares Strait ᐃᒫᑦ ᐊᒻᒪᓗ Archer Fiord ᑲᖏᖅᑐᐊᓄᑦ ᓂᒋᐊᓂ (Yurkowski et al. 2019).

ᑕᒪᐃᓐᓂ ᐃᓱᒪᒋᓪᓗᒋᑦ, ᒥᑭᔪᒻᒪᕆᖕᒥᒃ ᑭᓯᐊᓂ ᑕᕆᐅᕐᒥ ᐊᕙᑎᖓᓂᒃ ᑐᕙᐃᔪᐃᑦᑑᑉ ᖃᐅᔨᓴᕐᕕᐅᓯᒪᕗᖅ ᐊᒻᒪᓗ ᑕᒫᓃᓐᓇᖅ ᐅᐱᖓᒃᑯᓪᓗ ᐊᐅᔭᒃᑯᓪᓗ. ᓱᒃᑲᓪᓕᔪᒻᒪᕆᐊᓗᖕᒥᒃ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᑦ ᐱᔾᔪᑕᐅᕐᒧᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ, ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᓯᑯᐃᔭᕐᓂᐊᓗᐊ ᐱᖃᓗᕋᔪᖅᐸᓪᓕᐊᓂᕐᒧᑦ ᐊᒻᒪᓗ ᑕᒪᒃᑯᐊ ᑕᕆᐅᖃᖏᓂᖏᑦ ᓯᒡᔭᐅᓂᕐᒧᑦ ᖃᓂᓐᓂᖏᑦ ᑕᓲᑦ, ᒫᓐᓇᑲᐅᑎᒋ ᑎᑭᓯᒪᓗᑎᒃ ᕿᓚᒥᐊᓗᒃ ᑲᒪᒋᔭᐅᔭᕆᐊᖃᓗᐊᖅᐳᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᐱᐅᓯᑐᖃᕆᔭᖏᑦ.

ᐊᒃᓱᕈᕐᓇᕈᑕᐅᔪᑦ ᐊᒻᒪᓗ ᐅᓗᕆᐊᓇᕐᓂᒦᓗᑕᐅᔪᑦ

ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ

ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐱᒻᒪᕆᐊᓗᖕᒥᒃ ᐅᓗᕆᐊᓇᕈᑕᐅᕗᖅ ᑐᕙᐃᔪᐃᑦᑐᕐᒧᑦ. ᑕᒪᐃᓐᓂᒃ ᐱᑕᖃᕐᓂᖓ ᐊᒻᒪᓗ ᐃᔾᔪᑎᒋᓂᖓ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓂ ᓯᑯᐊᓗᐊ, ᐱᓗᐊᖅᑐᒥᒃ ᐊᐅᔭᒃᑯᑦ, ᐱᒻᒪᕆᐅᔪᒥᒃ ᒥᑭᒡᓕᑎᖅᓯᒪᓕᕐᒪᑦ ᐊᓂᒍᖅᑐᓂ ᓱᑯᐊᓗᐊ ᐊᕐᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ ᓵᒡᓕᕙᓪᓕᐊᑐᐃᓐᓇᕐᓂᖏᓐᓄᑦ ᐃᓂᖏᖅᑕᐅᕙᓪᓕᐊᓗᑎᒡᓗ ᑕᒪᒃᑯᓄᖓ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᓄᑦ, ᐊᖏᔪᑎᐊᓘᓂᖏᓐᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᖑᓂᐊᓗᐊᓂ (AMAP 2017, Perovich et al. 2019). ᐊᑐᖅᐸᓪᓕᐊᓚᐅᕐᓂᖏᓐᓂ ᕐᑯᓕᐅᓈᖅᑎᖅᓯᒪᔪᑦ ᐊᕐᕋᒎᓚᐅᖅᑐᑦ, ᓯᑯᑐᖃᓗᐃᑦ ᐱᑕᖃᔪᖏᓂᖅᓴᐅᕙᓪᓕᐊᓚᐅᖅᐳᑦ (Perovich et al. 2019), ᑕᐃᒪᐃᓂᖓᓄᑦ ᑕᒫᓂ ᐊᕐᕋᒍᒥ 2019, ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᕐᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ ᐅᖓᑕᓂ > ᐱᖓᓱᓂᒃ 3 ᐊᕐᕋᒍᓖᑦ ᑕᒫᓂᑐᐃᓐᓇᓕᓚᐅᖅᑐᑦ ᐊᒥᐊᒃᑯᖏᑦ 0.9 M km² ᑭᐸᓇᒃᑐᓂ ᑭᓕᒦᑕᓕᖕᒥ, ᓴᓂᐊᓂ ᑕᒫᓂᐸᓚᐅᖅᑐᓂ ᐊᖏᓂᖏᑦ 3.5 M km² ᑭᐹᓇᒃᑐᓂᒃ ᑭᓚᒥᑕᒦᓚᐅᕐᓂᖏᑦ ᐊᕐᕋᒍᒥ 1985-ᒥ. ᑐᕙᐃᔪᐃᑦᑑᓂᖓ ᐱᑕᖃᕐᕕᐅᔪᒃᓕᖅᑐᖅ ᓯᑯᑐᖃᐅᓂᖅᐹᖑᓂᖏᓐᓂᒃ ᐅᑭᐅᖅᑕᖅᑑᓂᕐᒥ ᐊᖏᔪᒥᒃᓗ ᓱᓕ

ᐊᒥᐊᒃᓯᒪᓪᓗᓂ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᖕᓂᒃ (Perovich et al. 2019). ᒫᓐᓇᓵᖑᓚᐅᖅᑐᖅ ᐱᒻᒪᕆᐅᓂᖏᑦ ᓯᑯᓯᒪᔪᑐᖃᓗᓂᖏᑦ ᓱᕋᖅᑎᖅᐸᓪᓕᐊᓚᐅᖅᐳᑦ ᑕᐃᒫᑎᒋ ᓄᖑᑦᑎᐊᒪᕆᓚᐅᖅᓱᑎᒃ ᑕᐅᕙᓂ ᑕᐃᔭᐅᔪᓂ Ayles-ᒥᓗ ᐊᒻᒪᓗ Markham-ᒥ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᖏᑦ ᑕᒫᓂ ᐊᕐᕌᒍᒥ 2005-ᒥ ᐊᒻᒪᓗ 2008-ᒥ ᐊᑐᓂ (Copland et al. 2007, Mueller et al. 2008, White et al. 2015) ᐊᒻᒪᓗ ᐊᖏᔪᐊᓗᖏᒃ ᐱᑕᖃᕈᓐᓃᐅᓚᐅᖅᑐᖅ ᑕᐅᕙᒃᑯᐊ ᑕᐃᔭᐅᔪᑦ ᓯᑯᓯᒪᔪᑐᖃᓗᓂᖏᑦ Ward Hunt, Petersen, Serson ᐊᒻᒪᓗ Milne-ᒦᑦᑐᑦ (White et al. 2015, Copland et al. 2018, WIRL 2020). ᑕᒪᐃᓐᓂᑲᓴᒃ ᐊᐅᒃᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᐄᔭᐃᕝᕕᐅᓂᖏᑦ ᐱᖃᓗᔭᕈᖅᐸᓪᓕᐊᓕᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᓱᕋᖅᑎᖅᐸᓪᓕᐊᓚᐅᖅᑐᑦ ᓯᑯᐃᓐᓇᓗᓂᖏᑦ ᓇᒻᒪᓈᖅᓯᒪᓚᐅᖅᑐᑦ ᐆᓇᕐᓂᖅᓴᐅᕙᓚᐅᕐᓂᖓᓄᑦ ᓯᓚᐅᑉ ᐊᐅᔭᒥ ᑕᐅᓂ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᑕ ᐅᐊᖕᓇᖓᓂ (White et al. 2015, Braun 2017).

ᐊᓯᔾᔨᖅᓯᒪᓂᖏᑦ ᑕᕆᐅᕐᒥ ᓯᑯᑉ ᖃᓄᐃᓕᖓᓂᖓ (ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᖏᑦ ᓴᓂᐊᓂ ᓯᕗᓪᓕᕐᒥ ᐊᕐᕌᒍᒥ ᓯᑯᓯᒪᔪᓂᒃ), ᐊᒻᒪᓗ ᓇᓃᓐᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐊᕐᕋᒍᒥ ᐊᖏᓂᖏᑦ ᑕᒪᕐᒥᒃ ᐊᒃᑐᐃᓐᓂᖃᓲᖑᕗᑦ ᐊᕙᑎᒥᒃ ᐊᕙᑎᒥᐅᑕᕆᔭᐅᔪᓂᒡᓗ, ᑕᒪᒃᑯᓂᖓ ᑕᑯᒃᓴᐅᕙᖕᓂᖏᓐᓂᒃ, ᐃᓚᒃᓴᔭᕆᕙᒃᑕᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐆᒪᔪᖃᕐᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᐊᖏᓂᓕᖕᓂᒃ (ᕿᒥᕈᐊᕈᓐᓇᑎᑦ, ᑕᐃᒃᑯᐊ AMAP 2017). ᖃᓄᐃᓕᖓᓂᖏᑦ, ᓇᓃᓐᓂᖏᑦ, ᖃᖑᓂᖓᓂᒃ ᐊᒻᒪᓗ ᐊᖏᓂᖏᑦ ᐱᑕᖃᕐᓂᖏᑦ ᓯᑯᒥ ᐱᕈᕈᓐᓇᖅᑐᑦ ᕐᑯᐸᐱᕐᕈᖃᓕᕈᓐᓇᕐᓂᖏᓪᓗ (ᑐᖓᕕᐅᓂᖏᑦ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᕐᒥᐅᑕᓄᑦ ᐊᕙᑎᖓᓄᑦ ᐊᕙᑎᒥᐅᑕᖃᕈᓐᓇᕐᓂᖓᓄᓪᓗ) ᐊᒃᑐᖅᑕᐅᓯᒪᓕᓈᖅᐳᑦ ᓯᓚᐅᑉ, ᑕᕆᐅᑉᓗ ᓯᑯᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ (ᓲᕐᓗ, Comeau et al. 2011, Leu et al. 2011, Ardyna et al. 2014). ᑕᒪᒃᑯᐊᓕᑕᐅᖅ ᐊᓯᔾᔨᖅᓯᒪᓂᖏᓐᓄᑦ ᐊᒃᑐᐃᕙᓪᓕᐊᓂᐊᓕᕆᕗᑦ ᐊᔾᔨᒌᖏᓐᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓂ ᐊᖏᔫᑎᐅᓂᖅᓴᐃᑦ ᓂᕿᒃᓴᖅᓯᐅᖃᑕᐅᕙᒃᑐᑦ ᐆᒪᔪᐃᑦ ᓂᕿᒃᓴᕆᔭᐅᕙᖕᓂᖏᓐᓄᑦ ᓂᕆᖃᑕᐅᕙᓪᓕᐊᖃᑕᕐᓂᖏᓐᓂ ᐱᐅᓯᕐᒥᒍᑦ, ᑕᒪᒃᑯᐊ ᐅᖅᓱᐊᓗᕕᓂᖃᐅᕐᕕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᐃᓕᐅᖅᐸᓪᓕᐊᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑕᒪᐃᓐᓂ ᐊᕙᑎᖓᓂ ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓐᓂᓗ ᐱᐅᓯᑐᖃᖏᑦ, ᐊᑑᑎᖃᕐᓂᖏᓪᓗ (ᓲᕐᓗ, Meier et al. 2014, Michel et al. 2015, Underwood et al. 2019). ᓲᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᒥᑭᒡᓕᓯᒪᓂᖏᑦ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ ᑲᓇᑕᒥ ᐃᑎᔫᓂᖏᓐᓂ ᐱᔾᔪᑕᐅᓯᒪᓕᖅᑐᑦ ᐊᒥᓲᔫᓐᓂᕈᑕᐅᓂᖏᓐᓄᑦ ᐱᑕᖃᕈᓐᓇᖅᐸᓚᐅᕐᓂᖏᓐᓄᑦ ᓯᑯᒦᓲᖑᔪᑦ ᖃᐅᔨᓴᖅᑎᓄᑦ ᑕᐃᔭᐅᔪᑦ *G. wilkitzkii* (Melnikov et al. 2002). ᑕᒪᒃᑯᐊ ᐊᕙᑎᒥ ᐆᒪᔪᓄᓪᓗ-ᐱᒻᒪᕆᐅᔪᑦ ᓇᓂᔭᐅᓚᐅᕆᕗᑦ ᐊᖏᔫᑎᐅᓂᐊᓗᐊᓂ ᑕᐅᕙᓂ ᐊᑖᓂ ᐊᕐᕋᒍᓴᖕᓂ ᓯᑯᑐᖃᓗᓂᖏᓐᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ (S. Duerksen, DFO, pers. comm., Charette et al. 2020). ᐅᖅᓱᓕᐊᓘᕙᒃᑐᑦ ᕐᑯᐃᕐᕈᐃᑦ ᓲᕐᓗ ᑕᐃᒃᑯᐊ ᑕᐃᔭᐅᕙᒃᑐᑦ ᖃᓪᓗᓈᑎᑐᑦ *G. wilkitzkii-ᒥᒃ* ᓂᕿᒃᓴᕆᔭᐅᒻᒪᕆᖕᒪᓴᑕ ᐊᖏᔫᑎᐅᓂᖅᓴᓄᑦ ᑕᒪᒃᑯᓂᖓ ᓂᕿᖃᓲᖑᔪᓄᑦ, ᐊᓯᔾᔨᕈᑎᒃ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓂ, ᖃᓄᐃᓕᖓᔪᓐᓇᕐᓂᖏᓐᓂᓗ ᕐᑯᐸᐱᕐᕈᐃᑦ ᑕᐃᒪᐃᓂᖓᓄᑦ ᑲᔪᓯᕙᓪᓕᐊᑐᐃᓐᓇᕈᓐᓇᖅᑐᓂᒃ ᐊᒃᑐᐃᓂᖃᕈᓐᓇᕆᕗᖅ ᓂᕿᒃᓴᕆᔭᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ.

ᑕᐃᒪᐃᓕᖓᓂᐊᖅᑐᔫᕐᓂᖏᓐᓂᒃ ᓇᓚᐅᑖᕈᑎᖃᕐᓗᑎᒃᑕᐅᖅ, ᓴᕿᐅᒪᑎᑦᑎᒋᕗᑦ ᐱᒻᒪᕆᐅᖃᕐᓂᖓᓂᒃ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᓯᑯᓯᒪᓂᖓᓄᑦ ᓇᔪᒐᕆᔭᐅᔪᓐᓇᕐᓂᖓᓄᑦ ᓯᑯᖃᕐᓂᖓ ᐆᒪᔪᓄᑦ ᓲᕐᓗ ᑕᒪᒃᑯᓄᖓ ᓇᓄᕐᓄᑦ ᐊᒻᒪᓗ ᓯᓚ ᐆᓇᖅᓯᕙᓪᓕᐊᓗᓐᓂ ᐊᒻᒪᓗ ᑕᕆᐅᖅ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᒥᑭᒡᕙᓪᓕᐊᓂᖏᑦ ᐊᓯᖏᓐᓂᑦᑐᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ (Atwood et al. 2016). ᑕᒪᒃᑯᐊ ᐆᒪᔪᐃᑦ ᐱᓗᐊᖅᑐᒥᒃ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᑉᐳᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᓯᑯᐃᔭᖅᐸᓪᓕᐊᓂᖓᓄᓪᓗ (ᓲᕐᓗ, Laidre et al. 2008).

ᐊᑯᓂᐅᓂᐊᖅᑐᒧᑦ ᓯᕗᓂᒃᓴᒧᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ (60-ᓂᒃ ᐊᕐᕋᒍᓂᒃ) ᓂᒡᓚᓱᒃᑎᒋᕙᓂᖏᑦ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑑᓂᖓᓂᒃ ᑐᑭᓯᔭᐅᓯᒪᕗᖅ ᐊᖏᔪᑲᓪᓚᒻᒪᕆᐊᓗᖏᒃ ᐊᒻᒪᓗ ᑕᐃᒪᐃᒐᔪᒃᓯᔪᒥᒃ ᓯᓚᐅᑉ ᐆᓇᖅᓯᕙᓪᓕᐊᓂᖓᓂᒃ, ᐱᓂᖅᐹᖑᓯᒪᓪᓗᓂ ᓄᓇᖓᓂ ᔪᓈᑲᒥ ᐊᖏᓂᖅᐹᖑᖃᑕᐅᔪᒥᒃ ᐆᓇᖅᓯᓯᒪᓂᖓᓂᒃ (van Wijngaarden 2015). ᓯᓚᐅᑉ ᖃᓄᐃᓕᖓᓂᖓᓂ ᐃᔾᔪᑕᐅᖅᓯᒪᓪᓗᓂ ᖃᐅᔨᓴᕈᑕᐅᓂᕐᒧᑦ ᐃᓱᒪᓇᖅᑐᖅ ᑭᓂᐸᓂᖅᓴᐅᔫᒪᕐᓂᖓᓂᒃ ᑐᕙᐃᔪᐃᑦᑑᑉ ᑕᒪᓂ ᐃᓱᒋᓂᐊᖅᑕᖓᓂ 100-ᓂᒃ ᐊᕐᕋᒍᓂᐊᖅᑐᓂ (Šeparović et al. 2013). ᓯᑯᑐᖃᓗᐃᑦ ᓄᓇᒧᑦ ᐊᑕᔪᑦ ᓯᕐᒦᓪᓗ ᐊᐅᒃᐸᓪᓕᐊᓂᖏᑦ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᓂᕆᐅᒋᔭᐅᕗᑦ ᐃᓚᒋᐊᖅᑕᐅᓚᖓᓂᖓᓂᒃ ᓯᕐᒥᐊᓗᐃᑦ ᐊᐅᒃᐸᓪᓕᐊᓂᖏᓐᓄᑦ

ᑕᕆᐅᖑᖏᑦᑐᒥᒃ ᐃᒪᖃᕐᓂᖅᓴᐅᓕᕈᒫᕐᓂᕐᒧᑦ ᑕᒪᑯᐊᓗ ᐊᒃᑐᖅᑕᐅᓯᒪᖃᑕᐅᓗᑎᒃ ᓯᒡᔭᒧᑦ ᖃᓂᑦᑑᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑕᑐᕐᒥ.

ᐊᒻᒪᑕᐅᖅ, ᓯᓚᐅᑉ ᐊᔾᔨᒋᖃᑕᖏᓂᖏᑦ ᐊᒻᒪᓗ ᐊᓯᔾᔨᖅᐸᓕᐊᓂᖏᑦ ᐊᒃᑐᐃᕙᒃᑭᕗᑦ ᖃᓄᐃᓕᖓᓂᖏᓐᓂᒃ ᑕᐅᕙᓂ ᐊᕕᒃᓯᒪᓂᖏᓐᓂ ᐸᓯᕕᐅᓪᓗ ᐊᑦᑏᓐᑎᐅᓪᓗ ᐃᒪᖏᓐᓂᒃ ᑕᒫᖓᑦ ᕿᑎᐊᓂᒃ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓂᒃ, ᑕᐃᒪᐃᓂᖓᓄᓪᓗ ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓐᓇᖅᓱᑎᒃ ᐃᒪᕐᒧᑦ ᑐᕙᐃᔪᐃᑦᑐᒥ. ᖃᓄᐃᓕᖓᓕᕈᑕᐅᔪᓇᕐᓂᖏᑦ ᑕᕆᐅᕋᓗᖏᒥ ᐅᖓᓯᒃᑐᒧᑦ ᓴᖏᓂᖃᕐᓂᖏᓐᓄᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᓯᖅᐸᓪᓕᐊᓂᖓᓄᑦ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᑦ ᑕᕆᐅᒥ ᐊᕙᑎᒋᔭᐅᔪᑦ ᐊᕙᑎᒥᐅᑕᕆᔭᐅᔪᓪᓗ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᖃᐅᔨᒪᔭᐅᖏᓚᑦ.

ᐅᒥᐊᕐᔪᐊᖃᕈᓐᓇᕐᓂᖏᓐᓂ / ᐊᑐᒐᒃᓴᐅᔪᓐᓇᖅᑐᓂᒡᓗ ᐱᕙᓪᓕᐊᓂᖏᑦ

ᐅᓂᒃᑳᓕᐊᕆᔭᐅᓯᒪᕗᑦ ᓇᐃᓈᖅᑕᐅᓯᒪᓪᓗᑎᒃ ᒫᓐᓇᓵᖑᓚᐅᖅᑐᖅ ᐅᒥᐊᕐᔪᐊᖃᖃᑕᕐᓂᖏᓐᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᑕᐃᑲᓂ ᑎᑎᖃᕐᑯᑎᖏᓐᓂ Charette et al. (2020; ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᑕᑯᑎᑦᑎᔾᔪᑎᓕᖕᓂ 8-ᒥ). ᓄᓇᒥᖕᒫᖅᓯᒪᔪᓂᒃ ᐱᕙᓪᓕᐊᔾᔪᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᒻᒪᓗ ᑕᒪᒃᑯᐊ ᐱᔾᔪᑕᐅᓂᖏᓐᓄᑦ ᐅᒥᐊᕐᔪᐊᖃᖃᑕᓕᕐᓂᖓᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᒃᑰᕋᑦᑕᖅᑐᓂᒃ ᐊᕙᓗᐊᒍᓪᓗ ᖃᓂᒋᔭᖓᒍᑦ ᑕᐃᒃᑯᐊ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐅᓂᖏᓐᓂᒃ ᓄᓇᒧᑦ ᐊᑕᖏᑦᑐᓂᒃ ᐃᓱᒪᒋᔭᐅᕙᒃᑐᓂᒃ ᐅᓗᓇᐊᓇᕈᑎᖃᕐᓂᖅᐹᖑᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐊᑭᑐᓂᖅᐹᖑᖃᑕᕐᓂᖏᓐᓂᒃ ᐱᓕᕆᐊᖑᓂᖏᓐᓄᑦ, ᐃᓛᒍᑦ ᐱᔾᔪᑕᐅᓪᓗᓂ ᐅᖓᓯᒃᑐᒦᓂᖏᓐᓂ ᐊᒻᒪᓗ ᐅᓗᓇᐊᓇᕐᓂᖓᓄᑦ ᐊᐅᓚᑦᑎᕕᐅᖃᑕᕐᓂᖏᑦ ᐃᔾᔪᔪᐊᓗᖕᓂᒃ ᐊᕐᕋᒍᒐᔭᖕᓂ ᓯᑯᑐᖃᓗᓂᖏᓐᓂᒃ ᖃᖓᓃᑐᖃᕐᓂᖓᓄᑦ. ᑕᐃᒪᐃᓂᖓᓄᑦ, ᑕᒪᐃᓐᓂᒃ ᐱᕙᓪᓗᐊᔾᔪᑕᐅᔪᓐᓇᖃᑕᕐᓂᖏᑦ ᑕᒫᓂ ᐊᒥᔅᓱᖏᓚᑦ (Gavrilchuk and Lesage 2014). ᐊᒧᖃᐃᕕᐅᔪᓐᓇᕐᓂᖏᑦ ᐅᖅᓱᐊᓗᒃᓴᔭᕐᓂᒃ ᒐᓴᓖᒃᓴᔭᕐᓂᒡᓗ ᑕᐅᕙᖓᑦ ᑕᕆᐅᕋᓗᑉ ᐃᑎᔫᓂᖓᓂ ᑕᐃᔭᐅᓂᕐᒥ Sverdrup Basin ᐃᒪᖓᓂ ᑯᐃᓐ ᐃᓕᓴᐃᐅᑉ ᕿᑭᖅᑕᒐᓴᖏᓐᓂ ᑲᔪᓯᓇᔭᖏᑦᑐᒃᓴᐅᒐᓗᐊᖅᓱᑎᒃ (Adams 2014, Gavrilchuk ᐊᒻᒪᓗ Lesage 2014), ᑕᐃᒪᐃᑐᓐᓇᖅᐳᑦ ᐊᕐᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᓗᓂᖏᑦ ᑭᓯᐊᓂ ᓄᖑᓕᕈᑎᒃ, ᐱᔾᔪᑕᐅᓕᕈᓐᓇᕐᒪᑕ ᓇᖕᒥᓂᖅ ᐱᔾᔪᑕᐅᓂᖏᓄᓪᓗ ᐊᓯᐊᒍᑦ ᐱᐅᖏᑦᑐᒥᒃ ᐊᒃᑐᐃᓂᖃᕈᓐᓇᕋᔭᖅᑐᑦ ᐱᒻᒪᕆᐅᓂᖏᓐᓄᑦ ᑕᒫᓃᑦᑐᑦ ᐊᒻᒪᓗ ᐆᒪᔪᖏᓐᓄᑦ ᐱᕈᖅᑐᖃᕐᓂᖏᓄᓪᓗ ᑕᐅᕙᓂ. ᐊᒻᒪᑕᐅᖅ ᐊᒥᓱᕈᖅᐸᓪᓕᐊᓂᖏᓐᓂ ᐅᒥᐊᕐᔪᐊᑦ ᐃᑳᖅᐸᒃᑐᑦ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᓂᐊᒍᑦ ᐅᒥᐊᖅᑐᕐᕕᐅᔪᓐᓇᖅᑐᑦ ᒪᒃᐱᖅᐸᓪᓕᐊᓕᕈᑎᒃ ᓯᑯᐃᔭᖅᐸᓕᐊᓂᕐᒧᑦ ᐊᒃᓱᕈᑕᐅᓂᐊᕋᓱᒋᔭᐅᕗᑦ ᐅᐊᖕᓇᖅᐸᓯᐊᓄᑦ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᐅᑉ.

ᐅᒥᐊᕐᔪᐊᓪᓗ ᐃᓄᖕᓂᒃ ᓂᐅᕐᕈᐊᓖᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒧᖓᐅᓂᖅᓴᐅᓕᕈᓐᓇᕐᒪᑕ ᐊᕐᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᓗᐃᑦ ᓄᖑᐸᐸᓪᓕᐊᓂᖏᓐᓂ, ᑕᒪᒃᑯᐊ ᑲᔪᓯᑎᑕᐅᖃᑕᕈᓐᓇᕐᓂᖏᑦ ᒫᓐᓇᐅᔪᖅ ᐊᒥᓱᕙᖏᓚᑦ ᑎᑭᑕᐅᔪᓐᓇᖃᑕᖏᓂᖏᓐᓄᑦ ᐃᓱᒪᓗᑕᐅᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᓇᖏᐊᕐᓇᖃᑕᕐᓂᖏᓐᓄᑦ ᓯᑯᐃᑦ ᖃᓄᐃᓕᖓᓂᖏᑦ. ᖃᐅᔨᒋᐊᕈᑕᐅᒐᒥᒃ ᐅᒥᐊᕐᔪᐊᖃᓲᖑᓂᖏᑦ ᑕᐃᒃᑯᓄᖓ ᑲᒻᐸᓂᖓᓄᑦ Maerospace Corp. ᑯᐊᐳᕇᓴᒃᑯᑦ (2019) ᓴᕿᑎᑦᑎᓚᐅᖅᑐᑦ ᐊᑯᓐᓂᖏᓐᓂ ᐊᕐᕋᒍᓂ 2012 ᐊᒻᒪᓗ 2019, ᐊᑕᐅᓲᓐᓇᐅᓚᐅᖅᑐᖅ ᐅᓯᔪᖅ ᐃᓄᖕᓂᒃ ᓂᐅᕐᕈᐊᓂᒃ ᑕᐅᕗᓈᓚᐅᖅᑐᖅ (ᑕᐃᓐᓇ ᐅᒥᐊᕐᔪᐊᖅ ᑕᐃᔭᐅᔪᖅ ᑲᐱᑕᓐ ᒃᓕᐸᓂᑳᕐᒥᒃ Kapitan Khlebnikov ᑕᒫᓂ ᓯᑎᐱᕆ 2016-ᒥ) ᑐᕙᐃᔪᐃᑦᑐᕐᒧᐊᓚᐅᖅᑐᖅ ᐃᑳᖅᓱᓂ ᑕᐅᕗᓇ Greely Fiord ᑲᖏᖅᑐᐊᒍᑦ, ᐊᒻᒪᓗ ᑕᐅᕗᓈᖅᓱᓂ ᔪᓇᑲᐅᑉ ᐃᒫᒍᑦ Eureka Sound-ᑯᑦ. ᑕᒪᓐᓇ ᑕᐃᒪᐃᓕᖓᔪᑑᓚᐅᖅᐳᖅ ᐊᒻᒪᓗ ᖃᐅᔨᔭᐅᓚᐅᖅᑐᑦ ᑐᕙᐃᔪᑦᑐᒃᑰᓚᐅᕐᓂᖏᓐᓂᒃ ᐅᒥᐊᕐᔪᐊᑦ ᑕᐃᔅᓱᒪᓂ ᓯᑕᒪᐅᓚᐅᖅᐳᑦ ᓯᑯᓯᐅᑎᑦ, ᐊᒻᒪᓗ ᐱᖓᓱᓪᓗᑎᒃ ᑖᒃᑯᓇᓂ ᑲᓇᑕᒥᐅᑕᐅᓚᐅᖅᑐᑦ (ᑲᓇᑕᐅᑉ ᓯᒡᔭᖅᐸᓯᖏᓐᓂ ᓇᐅᑦᑎᖅᑐᐃᔨᑦ ᓯᑯᓯᐅᑏᑦ ᐅᒥᐊᕐᔪᐊᖏᑦ [CCGS] ᑕᐃᔭᐅᔪᑦ Des Groseilliers, CCGS Henry Larsen ᐊᒻᒪᓗ CCGS Amundsen) ᐊᒻᒪᓗ ᐊᑕᐅᓯᖅ ᓱᕕᑕᓐᒥᐅᑕᐅᓪᓗᓂ (ᐆᑎᓐ Oden) (Amundsen Science 2019, Maerospace Corp. 2019) ᐅᒥᐊᕐᔪᐊᕆᓚᐅᖅᑕᖓᑦ. ᑕᒪᒃᑯᐊ ᐅᒥᐊᕐᔪᐊᑦ ᑕᐅᕙᓃᓚᐅᖅᑑᐅᒃ ᒪᕐᕉᖕᓂᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᐅᔫᖕᓂ, Greely Fiord ᑲᖏᖅᑐᖓᓂ ᐅᕝᕙᓗᓐᓃᑦ Hall Basin ᐃᑎᔫᓂᖓᓂ ᐊᒻᒪᓗ Robeson Channel ᐃᒫᓂ.

ᐊᕙᑎᓕᕆᓂᕐᒥᒃ ᐃᓱᒪᓗᑕᐅᓂᖏᑦ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᕙᒃᑐᓂᒃ ᐱᕙᓪᓕᐊᑎᑕᐅᔪᑦ ᐊᒻᒪᓗ ᐊᒥᓱᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ ᐅᒥᐊᕐᔪᐊᑦ ᑕᐅᕙᓂ ᐃᓚᖃᕆᕗᑦ, ᑭᓯᐊᓂᓕᑕᐅᖅ ᑕᒪᒃᑯᐊᑑᖏᓐᓂᕗᑦ, ᓱᕋᐃᔪᓐᓇᕐᓂᖏᑦ ᓄᓇᒥᒃ ᐃᒪᕐᒥᒃ ᐊᕙᑎᒥᒃ

ᐊᒻᒪᓗ ᐸᒡᕕᓴᒍᑕᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ/ᐋᓂᖅᓯᖃᑕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐆᒪᔪᕆᔭᐅᕙᒃᑐᓂᒃ ᐱᕈᖅᕕᐅᖃᑕᕐᓂᖏᓐᓂᓗ ᐱᔾᔪᑕᐅᓂᖏᓐᓄᑦ ᑐᓴᖅᓴᐅᔪᖃᐃᓐᓇᕈᓐᓇᕐᓂᖏᑦ, ᐅᖅᓱᐊᓗᖏᒃ ᑯᕕᓯᕝᕕᐅᔪᓐᓇᕐᓂᖏᑦ, ᓴᒃᑯᑦᑎᕕᐅᔪᓐᓇᕐᓂᖏᓐᓂᓄᓗ ᐊᓯᖏᓐᓂᒃ ᓱᕋᕐᓇᖅᑐᖃᖅᑐᓂᒃ, ᓯᑯᐃᔭᕈᓐᓇᕐᓂᖓᓄᑦ, ᐊᐅᓚᔾᔭᒃᑎᑕᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᑖᒍᑦ (ᓱᕐᓗ ᐅᒥᐊᕐᔪᐊᕐᓄᑦ ᑐᓗᖅᑕᐅᖃᑕᕐᓂᖏᓐᓄᑦ), ᐃᒃᑲᕐᓇᕝᕕᐅᓯᒪᔪᓐᓇᕐᓂᖏᓐᓄᑦ/ᑭᕕᓯᒪᕝᕕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐊᒃᑕᕐᕕᐅᖃᑕᕈᓐᓇᕐᓂᖓᓄᑦ (ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ ᐃᒪᕐᓗᑯᓂᒃ/ᐊᑐᐊᓂᒃᓯᒪᔪᓂᒃ ᐃᒪᕐᓂᒃ, ᐊᒃᑕᑯᓂᒃ, ᐅᒥᐊᕐᔪᐊᓂᓗ ᐊᑖᒍᑦ ᑐᖓᕕᐊᒍᑦ ᐳᑦᑕᕐᑯᑕᐅᕙᖕᓂᕐᒧᑦ ᐃᒻᒥᖅᑕᐅᓯᒪᕙᖕᓂᖓᓂᒃ ᐃᒪᐃᔭᐃᕝᕕᐅᔪᓐᓇᕐᓂᖅ) (Adams 2014, DFO 2020).

ᐃᖃᓗᓕᕆᓂᖅ ᐊᒻᒪᓗ ᓂᕿᒃᓴᕆᔭᐅᓂᐊᖅᑐᓂᒃ ᐊᖑᓇᓱᒃᕕᐅᕙᖕᓂᖏᑦ

ᓂᕿᒃᓴᕆᔭᐅᖃᑕᖅᑐᓂᒃ ᐊᒻᒪᓗ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᕙᒃᑐᓂᒃ ᐊᖑᓇᓱᒃᕕᐅᕙᖕᓂᖏᑦᑐᖅ ᒫᓐᓇᐅᔪᖅ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐅᖓᓯᒃᑐᒦᓗᐊᕐᓂᖓᓄᑦ ᐊᒻᒪᓗ ᐃᔾᔪᓗᐊᕐᓂᖓᓄᑦ ᐊᕐᕋᒍᒐᓴᖕᓂ ᓯᑯᑐᖃᓗᓂᖏᑦ, ᐊᑭᑐᓗᐊᖃᑕᕐᓂᖏᓄᓪᓗ ᐊᖑᓇᓱᒍᑎᒃᓴᐃᑦ, ᐊᒻᒪᓗ ᓇᖏᐊᕐᓇᖃᑦᑕᕐᓂᖓᓄᑦ ᐊᐅᓪᓛᕐᕕᐅᔪᓐᓇᕐᓂᖅ (DFO 2019, Maerospace Corp. 2019). ᖃᓂᓛᖑᔪᑦ ᓄᓇᓖᒃ ᐊᐅᔪᐃᑦᑐᕐᒥ ᖃᐅᓱᐃᑦᑐᕐᒥᓗ ᐊᖑᓇᓱᒃᐸᒃᑐᓂᒃ ᐅᖓᓯᓂᖃᖅᐳᑦ ᑕᒫᓂ 600 km ᑭᓛᒥᑕᓕᖕᓂᒃ ᑐᕙᐃᔪᐃᑦᑐᕐᒥᒃ; ᑭᓯᐊᓂᓕᑦᑕᐅᖅ ᑕᒪᓐᓇ ᑐᕙᐃᔪᐃᑦᑐᖅ ᐱᒻᒪᕆᐅᓂᖃᖅᐳᖅ ᐃᓕᖅᑯᓯᑐᖃᕆᔭᐅᔪᓄᑦ, ᑖᒃᑯᓄᖓ ᓄᓇᓕᖕᓂ ᐊᓯᖏᓄᓪᓗ ᓄᓇᓕᖕᓄᑦ ᕿᑭᖅᑖᓗᑉ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ. ᐱᑕᖃᕐᓂᖏᑦ ᐊᒥᓲᕙᖕᓂᖏᓪᓗ ᑕᒪᒃᑯᐊ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᓕᕈᓐᓇᕐᓂᖏᑦ ᓱᕐᓗ ᐃᖃᓗᒃᐲᑦ, ᓇᑖᕐᓇᐃᑦ ᐊᒻᒪᓗ ᑭᖑᒃᐸᐃᑦ ᖃᐅᔨᒪᔭᐅᖏᓗᐊᖅᐳᑦ, ᐊᒻᒪᓗ ᑕᒪᐃᓐᓂᒃ ᑕᕆᐅᖓᓂ ᖃᓄᐃᓕᖓᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᑐᑭᓯᔭᐅᓯᒪᔪᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖓ ᓈᒻᒪᒐᔭᖏᓐᓂᖅ ᐃᖃᓗᓕᐅᕆᕕᐅᕈᓐᓇᕐᓂᕐᒧᑦ ᑕᒪᒃᑯᓂᖓ ᐱᔪᒪᔭᐅᕙᒃᑐᓂᒃ (Charette et al. 2020). ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕆᕗᑦ ᑕᒪᒃᑯᐊ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦᐃ ᓇᓃᖅᑲᑦᑕᕐᓂᖏᑦ ᐊᒻᒪᓗ ᐆᒪᔪᖃᕐᕕᐅᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᑕᑯᔭᐅᖃᑕᕋᓗᐊᖅᓱᑎᒃ ᓇᑦᑏᑦ, ᐅᒡᔪᐃᑦ, ᓇᓄᐃᑦ, ᐊᐃᕖᑦ ᐊᒻᒪᓗ ᑐᒫᓕᑦ ᕿᓚᓗᒋᑦ ᑕᐅᕙᓂ ᐃᒪᕐᓂ Archer Fiord ᑲᖏᖅᑐᖓᓂ ᒫᓐᓇᓵᖑᓯᒪᔪᖅ ᐊᐅᔭᒐᓴᓂ. (Yurkowski et al. 2019, C. Carlyle, DFO, pers. comm.). ᑭᓯᐊᓂᓕᑦᑕᐅᖅ, ᐊᐃᕖᓪᓗ, ᑐᒫᓖᓪᓗ ᕿᓚᓗᒐᐃᑦ ᐱᔾᔪᑕᐅᓂᖏᓐᓂ ᖃᐅᔨᒪᔭᐅᖏᓐᓂᕗᑦ ᓇᓪᓕᐊᖕᓄᑦ ᐃᓚᒋᔭᐅᕙᖕᒪᖔᑕ ᐊᒻᒪᓗ ᓇᑭᖔᖃᑕᕐᒪᑕ ᐊᒻᒪᓗ ᐊᖑᓇᓱᒃᕕᐅᕙᖕᓂᖏᓐᓂ ᑎᑭᖃᑕᕐᓂᖏᓐᓄᑦ ᑕᐅᕗᖓ ᐊᒻᒪᓗ ᑕᐅᕙᖔᖃᑕᕐᓂᖏᓐᓂᒃ ᓴᐳᓐᓂᐊᖅᓂᑕᐅᓯᒪᕝᕕᐅᓂᖓᓂ.

ᑕᐃᒃᑯᐊ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ ᐃᖃᓗᓕᕆᔭᐅᓕᕈᓐᓇᕐᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑕᕐᒥ ᓴᕿᕋᑕᕈᓐᓇᕆᓪᓗᑎᒃ ᓯᕗᓂᒃᓴᐅᓂᐊᖅᑐᒥ, ᑕᒪᓐᓇ ᑲᔪᓯᔪᓐᓇᖅᓯᓂᐊᕋᓱᒋᔭᐅᖏᓚᖅ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᑕᕆᐅᕐᒥ ᓯᑯᖓᑕ ᖃᓄᐃᓕᖓᓂᖓᓄᑦ ᐊᒻᒪᓗ ᑕᕆᐅᖑᓂᖓᑕ ᖃᓄᐃᓕᖓᓄᑦ. ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐃᒪᕐᒥᐅᑕᖃᐃᓐᓇᖃᑕᕐᓂᖓ ᖃᐅᔨᓴᖅᑕᐅᓇᔭᖅᑐᖅ ᓯᕗᓪᓕᕐᒥᒃ ᑐᕋᖓᔪᓂᒃ ᖃᐅᔨᒪᔭᐅᓕᕈᓐᓇᕐᓂᖏᓐᓂᒃ ᐃᖃᓗᒃᓯᐅᕐᕕᐅᓕᕈᓐᓇᕐᓂᕐᒧᑦ ᐊᔪᕐᓇᕋᔭᖏᒻᒪᖔᑦ.

ᐅᖓᓯᒃᑐᓂᒃ ᑎᑭᑕᐅᕙᓪᓕᐊᓕᓂᖏᑦ

ᓇᓗᓇᕈᓐᓃᖅᐸᓪᓕᐊᔪᖅ ᓄᓇᕐᔫᑉ ᖀᖓᑕ ᕿᑎᖅᐸᓯᐊᓄᑦ ᑎᑭᑉᐸᓪᓕᐊᓕᕐᓂᖏᑦ ᓄᓇᕐᔪᐊᕐᒥ ᐅᑭᐅᖅᑕᖅᑑᓂᐅᔪᑉ-ᓂᒋᐊᓂᖔᖅᓯᒪᔪᑦ ᑕᕆᐅᕐᒥᐅᑕᕆᕙᒃᑕᖏᑦ, ᖁᑉᐱᕐᕈᐃᓪᓗ, ᐃᖃᓗᒐᓴᐅᕙᒃᑐᓪᓗ ᑎᑭᐸᓪᓕᖃᑕᓕᕐᒪᑕ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᓂᕐᒧᑦ ᑕᐅᕗᓈᖃᑦᑕᖅᓱᑎᒃ ᐸᓯᕕᒃᑯᑦ ᑕᕆᐅᖓᒍᑦ ᐊᒻᒪᓗ ᑲᓇᑕᐅᑉ ᓯᓚᑖᓂᒃ ᐅᑭᐅᖅᑕᖅᑐᒥᐅᑕᐅᓂᖏᓐᓂᒃ ᔪᐊᕆᐸᒥᐅᑕᓂᒃ (Fossheim et al. 2015, Eriksen et al. 2017, Spies et al. 2020), ᐱᓗᐊᖅᑐᒥᒃ ᐃᒪᐅᑉ ᐊᐅᓚᐃᓐᓇᖃᑕᕐᓂᖓᓄᑦ (Oziel et al. 2020). ᑐᕙᐃᔪᐃᑦᑐᖅ ᓇᖏᓂᖅ ᐊᖅᑯᑕᐅᕙᖏᑦᑑᒐᓗᐊᖅ ᑕᒪᒃᑯᓄᖓ ᑎᑭᕝᕕᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐅᖓᓯᖕᒪᑦ ᐃᒪᕐᔫᑉ ᐊᐅᓚᕙᓪᓕᐊᓂᕆᕙᒃᑕᖓᓂᒃ ᑕᕆᐅᕋᓗᐃᑦ ᐊᐅᓚᕙᓪᓕᐊᖏᓐᓇᕐᓂᖏᓐᓂᒃ ᐊᑦᓛᓐᑎᒃᒥ ᑕᕆᐅᕋᓗᐊᓂᒃ ᐅᕝᕙᓗᓐᓃᑦ ᐸᓯᕕᒃᒥ ᐃᖏᕐᕋᐃᓇᖃᑕᕐᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗᑕᐅᖅ ᐃᖏᕐᕋᕕᐅᖃᑕᕐᓂᖓᓄᑦ ᑐᒃᑐᔭᖅᑑᑉ ᑕᕆᐅᕋᓗᐊᓄᑦ/ᐅᑭᐅᖅᑕᖅᑑᓂᕐᒧᑦ ᐃᑎᓂᐊᓗᐊᓄᑦ ᑕᐅᕗᓇᖃᑕᖅᑐᓂᒃ ᓂᕈᑭᓐᓂᖃᖅᑐᒥᒃ ᐃᒫᒍᑦ Nares Strait. ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐃᒪᖏᑦ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒪᖓ ᐃᒡᓗᐊᓄᖔᕐᓕ ᐃᖏᕐᕋᕙᖕᒪᑕ, ᑲᔪᕙᓪᓕᐊᖃᑦᑕᖅᑐᓂᒃ ᐅᑭᐅᖅᑕᖅᑑᑉ ᐃᒫᓄᑦ-North Water-ᒧᑦ ᓂᒋᖅᐸᓯᐅᓂᖓᓄᓪᓗ ᓴᓐᓂᕈᑎᐅᑉ ᐃᒫᓄᑦ, ᐊᒻᒪᓗ ᑕᐃᒃᑯᐊ ᐊᑦᓚᓐᑎᒃᒥ ᑕᕆᐅᕐᒥ ᐃᒪᐃᑦ ᑎᑭᑉᐸᒃᑐᑦ ᐊᑯᑭᑦᑐᕐᒥᐅᑦ

ᐅᖓᓇᖓᓄᑦ, ᑎᑭᑐᓐᓇᖃᑦᑕᖏᒻᒪᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒧᑦ. ᑕᐃᒪᐃᓂᖓᓄᑦ, ᑐᕙᐃᔪᐃᑦᑐᖅ ᑎᑭᕝᕕᐅᒐᔪᐃᐳᖅ ᐅᖓᓯᒃᑐᓂᖕᒑᖅᓯᒪᔪᓂᒃ ᓂᕆᕐᒥᐅᑕᓂᒃ ᐃᒪᕐᒥᐅᑕᐅᔪᓂᒃ, ᓱᕐᓗ ᕐᑯᐸᐱᕐᕿᕐᓂᒃ, ᒪᓃᔭᖅᐸᒃᑐᓂᒡᓗᓐᓃᑦ, ᑕᕆᐅᕋᓗᑉ ᓇᑎᐊᓂᕐᒥᐅᑕᐅᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑕᕆᐅᒥᐅᑕᓂᒃ ᐊᓯᖏᓐᓂᒃ ᐆᒪᔪᓂᒃ. ᐱᑕᖃᓕᖅᐸᓪᓕᐊᓂᐊᕋᓱᒋᔭᐅᕗᑦ ᐆᒪᔪᐃᑦ ᐅᖓᓯᒃᑐᒧᖓᐅᖃᑕᕈᓐᓇᕐᓂᖏᑦ ᓱᕐᓗ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᐊᒻᒪᓗ ᑕᕆᐅᕐᒥᒃ ᓂᕿᒃᓴᖅᓯᐅᐸᒃᑐᑦ ᑎᖏᐊᑦ, ᓱᕐᓗ ᓇᐅᔭᐃᓪᓗ, ᐃᒥᖅᑯᑕᐃᓚᐃᓪᓗ, ᑐᕙᐃᔪᐃᑦᑐᕐᒧᐊᕈᓐᓇᖃᑦᑕᖅᑐᑦ ᓈᒻᒪᓈᖅᓯᒪᓂᖏᓐᓄᑦ ᐅᕝᕙᓗᓐᓃᑦ ᐱᐅᓯᕆᕙᓪᓕᐊᕈᓐᓇᖅᑕᖏᓐᓄᑦ, ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᓯᓚᐅᑉ ᐊᒻᒪᓗ ᓯᑯᐃᑦ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖏᓐᓄᑦ. ᐊᒥᓱᕈᖅᐸᓪᓕᐊᔪᓐᓇᕐᓂᖏᑦ ᑕᒪᒃᑯᐊ ᐱᑕᖃᕐᓂᖅᓴᐅᕙᓕᓗᕐᑎᒃ ᐊᒃᑐᐃᓂᖃᕈᓐᓇᖅᐳᖅ ᓂᕿᒃᓴᕆᔭᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᖏᔪᑎᐅᓂᖅᓴᓂᒃ ᓂᕿᒃᓴᖅᓯᐅᐸᒃᑐᓄᑦ ᒥᑭᔫᑎᐅᓂᖅᓴᓄᑦ ᑎᑭᓪᓗᒋᑦ, ᓂᕿᒃᓴᖅᓯᐅᕐᓂᖅᓴᐅᔭᕆᐊᖃᓕᕐᓂᖏᓄᓪᓗ. ᓱᕐᓗ ᐆᒃᑑᑎᒋᓗᒍ, ᓱᑲᐃᑦᑐᒥᒃ ᐱᕈᕈᓐᓇᖃᑕᕐᓂᖏᑦ ᑕᕆᐅᕋᓗᑉ ᓇᑎᐊᓂᕐᒥᐅᑕᐅᕙᒃᑐᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ ᐊᒥᓱᒐᓴᖕᓄᑦ ᓂᒃᓴᕆᔭᐅᖃᑕᐅᕙᒃᑐᑦ, ᑕᒪᒃᑯᓄᖓ ᓱᕐᓗ ᐊᐃᕕᕐᓄᑦ, ᐊᒃᑐᑕᐅᓯᒪᔾᔪᑕᐅᔪᓐᓇᕐᒪᑕ ᐱᐅᓯᑐᖃᓕᔭᐅᖏᑦᑐᓂᒃ ᑕᕆᐅᕋᓗᑉ ᓇᑎᖓᓂᕐᒥᐅᑕᖃᕈᓐᓇᕐᓂᖏᓐᓄᑦ. ᐃᖃᓗᒐᓴᐅᕙᒃᑐᓪᓗ ᐊᔾᔨᒌᖏᑦᑑᒌᑦ ᐱᑕᖃᖅᐸᓪᓕᐊᓕᕈᓐᓇᖅᑐᑦ ᑲᓇᖕᓇᖅᐸᓯᖓᓂ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᒪᓕᒃᑕᐅᓗᑎᒃ ᖃᓄᓕᕙᓪᓕᐊᓂᖓ ᑕᕆᐅᕋᓗᐊᑦᑕ.

ᐅᖓᓯᒃᑐᒧᐊᕈᓐᓇᖅᑐᑦ ᓱᕈᕐᓇᖅᑐᓖᑦ

ᐊᓯᒥᑎᑐᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ, ᑐᕙᐃᔪᐃᑦᑐᖅ ᐃᓱᒪᒋᔭᐅᕗᖅ ᐊᕙᑎᒥᖕᒑᖅᑐᓂᒃ ᓄᓇᕐᔪᐊᕐᒥ ᐊᒃᑕᑯᓄᑦ ᑎᑭᑕᐅᓯᒪᓂᖓᓂᒃ, ᑕᐃᒃᑯᓂᖓ ᓄᖑᔪᐃᑦᑑᓂᖏᓐᓂᒃ ᐊᒃᑕᑯᓂᒃ ᐱᑕᖃᐃᓐᓇᓕᖃᑕᖅᑐᓂᒃ, ᐊᒻᒪᓗ ᑕᒪᒃᑯᓂᖓ ᒧᑯᓕᒥᒃ mercury-ᒥᒃ ᐊᒻᒪᓗ ᒥᑭᔫᑎᓂᒃ ᐊᐅᑦᑕᔫᓂᒃ ᕿᓪᓚᔪᑭᐊᒃᓴᔭᓂᒃ ᓴᓇᓯᒪᕙᒃᑐᓂᒃ. ᐊᖏᓂᖅᓴᐃᑦ ᓂᕿᒃᓴᖅᓯᐅᑎᐅᖃᑕᐅᕙᒃᑐᑦ ᐆᒪᔪᐃᑦ ᑕᐅᕙᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᓱᕐᓗ ᓇᓄᐃᑦ ᐊᒻᒪᓗ ᓇᐅᔭᕙᑦ ᓂᓇᓯᒪᖃᑕᐅᓕᕈᓐᓇᓱᖑᕙᑦ ᑕᒪᒃᑯᓂᖓ ᓄᖑᔪᐃᑦᑑᓕᖅᓯᒪᔪᓂᒃ ᐊᒻᒪᓗᐊᕿᕐᕈᔭᐃᓐᓇᐅᔪᓂᒃ ᒧᑯᓕᖃᖅᑐᓂᒃ, ᐅᓗᓇᐊᓇᕈᓐᓇᖅᑐᓂᒃ ᐱᐅᔪᓐᓂᕈᑕᐅᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᕿᑐᖏᐅᕈᓐᓇᖃᑕᕐᓂᖏᓐᓄᑦ ᐊᓯᖏᓄᓪᓗ ᐋᓐᓂᐊᕐᓂᖅᑖᕈᑕᐅᔪᓐᓇᕐᓂᕐᒧᑦ. (AMAP 2018). ᓯᕗᓂᒃᓴᒥ ᑕᒪᒃᑯᐊ ᐊᕙᑎᖏᑦ ᐊᕙᑎᒥᐅᓇᔭᐅᔪᓪᓗ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᖃᑕᓇᐊᖃᕐᓂᐊᖅᑐᑦ ᖃᐅᔨᒪᔭᐅᒐᓯᐊᕐᓗᑎᒃ ᐆᒪᔪᕐᓄᑦ ᖃᓄᐃᓕᓗᑕᐅᕙᓪᓕᐊᔪᓐᓇᕐᓂᖏᑦ ᑕᐅᕙᓂ, ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᓄᓇᕐᔪᐊᕐᒥᒃ ᐊᒃᑐᑯᑕᐅᕙᓪᓕᐊᖃᑕᐃᓐᓇᖅᑐᓂᒃ, ᐊᒻᒪᓗ ᐊᓯᖏᓐᓂᒃ ᑕᒪᒃᑯᓂᖓ ᒫᓐᓇᐅᓕᖅᑐᖅ ᐊᑐᓕᕈᓐᓇᕐᒥᓂᒡᓗ ᓯᕗᓂᒃᓴᒥ ᐊᒃᓱᕈᓐᓇᕈᑕᐅᕙᒃᑐᓂᒃ.

ᐃᓱᐊᓂ ᑐᑭᑖᕈᑕᐅᓂᖏᑦ

ᐊᔾᔨᐅᖏᑦᑐᓂᒃ ᐊᑕᕐᓇᖅᑐᓂᒡᓗ ᐱᑕᖃᕐᕕᐅᕗᖅ ᑕᒪᓐᓇ, ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕋᒍᓂᒃ ᓯᑯᑐᖃᐃᓐᓇᐅᓂᓕᖏᒃ ᐊᒻᒪᓗ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓄᓇᒧᑦ ᐊᑕᔪᖅ ᓯᑯᑐᖃᓗᖏᑦ ᓯᕐᑑᓪᓗ ᐃᓕᑕᕆᔭᐅᓯᒪᕗᑦ ᐱᑕᖃᕐᓂᖅᐸᖑᓂᖏᓐᓂᒃ, ᐊᔾᔨᖃᖏᑦᑐᓂᒃ ᐊᒻᒪᓗ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᓐᓂᖏᓐᓂ ᐃᓚᒋᔭᐅᓗᑎᒃ ᑐᕙᐃᔪᐃᑦᑑᑉ ᐊᕕᒃᑐᖅᓯᒪᓂᐊᓂ. ᐊᒻᒪᑕᐅᖅ, to ᐊᒥᓱᕈᕗᑦ ᐊᔾᔨᔭᐅᖏᓂᖏᑦ ᐊᕙᑎᖏᑦ ᐊᕙᑎᒥᐅᑕᕆᔭᖏᓪᓗ, ᐆᒪᔪᖃᕐᕕᐅᔪᓪᓗ, ᐱᕈᖅᑐᖃᕐᕕᐅᔪᓪᓗ ᑕᒪᐃᓐᓂ ᑕᕆᐅᖓᓂ, ᓯᒡᔭᖅᐸᓯᖓᓂ ᐊᒻᒪᓗ ᓯᑯᑐᖃᓘᓂᖏᓐᓂ ᑲᖏᖅᑐᖏᓐᓂ. ᓯᑯᒦᑕᕆᐊᖃᖅᑐᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖓᓂ ᐱᒻᒪᕆᐅᕗᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᓂᖏᓐᓄᑦ ᑕᑯᒃᓴᐅᔪᓂ ᐊᒻᒪᓗ ᑕᕆᐅᕐᑰᖃᑦᑕᖅᑐᓂᒃ ᑕᑯᕙᖏᑦᑕᕐᑎᓐᓂᒃ ᐊᐅᓚᑦᑎᔾᔪᑕᐅᕙᖓᑕ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ, ᑐᑭᓕᐅᕈᑕᐅᕙᖓᑕ ᐊᖅᑯᑎᒋᔭᐅᕙᖕᓂᖅ ᕐᑯᐸᐱᕈᐃᑦ ᓂᕿᒃᓴᕆᔭᐅᖃᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᐊᒻᒪᓗ ᐆᒪᔪᐃᑦ ᐱᕈᖅᑐᓪᓗ ᑕᕆᐅᕋᓗᑉ ᓇᑎᐊᓂᕐᒥᐅᑕᐃᑦ ᐱᑕᖃᕈᓐᓇᕐᓂᖏᓐᓄᑦ ᑕᒪᒃᑯᓄᖓᓗ ᑎᖏᒥᐊᕐᓄᑦ ᑕᕆᐅᕐᒥᓗ ᐆᒪᔪᓄᑦ. ᑲᖏᖅᑐᖏᓴᐅᕙᒃᑐᑦ ᐊᑕᔪᑦ ᓯᑯᐃᓐᓇᐅᓂᖏᓐᓄᑦ ᓯᕐᒥᐅᓂᖏᓄᓪᓗᓐᓂᑦ ᑕᐅᕗᖓ ᑕᕆᐅᕐᒧᑦ ᐱᔾᔪᑕᐅᕙᖓᑕ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᖃᑕᕈᓐᓇᕐᓂᖏᓐᓄᑦ. ᑕᐅᕙᓂ Nansen Sound/Greely Fiord ᑲᖏᑐᖏᒃ ᐃᓱᒪᒋᔭᐅᓯᒪᒋᕗᑦ ᐱᒻᒪᕆᐅᓂᖃᕐᓂᖏᓐᓂᒃ ᐱᔾᔪᑕᐅᓗᑎᒃ ᐊᑕᖓᑕ ᐱᒻᒪᕆᐅᔪᓄᑦ ᐆᒪᔪᖃᕐᕕᐅᕙᒃᑐᓄᑦ. ᒫᓐᓇᓵᖑᓚᐅᖅᑐᖅ ᖃᐅᔨᔭᐅᓚᐅᕐᒪᑕ ᐱᑕᖃᓱᖑᓂᖏᑦ ᐊᒥᓱᒐᓴᐃᑦ ᑕᕆᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᑕᐅᕙᓂ Lady

ᐋᕕᒃᑐᖅᓯᒪᓂᐊᓐᓂ ᐋᓐᑎᐅᕆᔫᑉ ᓇᐹᖅᑐᖃᖏᓐᓂᐅᔪᓂᖏᓪᓗ	ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᓂᒃ ᑭᐅᔾᔪᑎᒃᓴᓂᒃᑕᐃᑦ: ᑐᕙᐃᔪᐃᑦᑐᖅ ᑕᕆᐅᖓ ᓴᐳᓐᓂᐊᖅᑕᐅᓂᖓ (ᑕᕆᐅᖅ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᔪᖅ)

Franklin ᑲᖏᖅᑐᖓᓂᒃ ᐊᒻᒪᓗ Archer Fiord ᑲᖏᖅᑐᖓᓂᒃ (ᐊᐃᕕᓪᓗ, ᑐᒫᓖᓪᓗ ᕿᓚᓗᒐᐃᑦ) ᐃᓱᒪᓇᖅᓯᓂᓗ ᑕᒪᒃᑯᐊ ᐱᒻᒪᕆᐅᖃᑕᐅᒻᒪᕆᖕᓂᖏᓐᓂᒃ ᓇᔪᒐᕆᔭᐅᕙᒃᑐᑦ ᐱᑕᖃᕐᕕᐅᕙᒃᑐᑦ ᐆᒪᔪᕐᓄᑦ ᑐᕙᐃᔪᐃᑦᑑᕐᓂᕐᒥ. ᐊᖏᔪᑎᐊᓗᐃᑦ ᓱᓕ ᐃᓚᖏᑦ ᑐᕙᐃᔪᐃᑦᑑᑦ ᖃᐅᔨᓴᖅᕕᐅᓯᒪᖏᑦᑐᑦ, ᑕᐃᒪᐃᓂᖓᓄᓪᓗ, ᒫᓐᓇᐅᔪᖅ ᐱᑕᖃᕆᐊᓕᒻᒪᕆᖕᓂᒃ ᐊᒃᑐᖅᑕᐅᓯᒪᖏᓂᖏᓐᓂ ᓱᓕ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᖃᕆᐊᖃᖅᐳᖅ ᑐᑭᓯᒪᓗᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖏᓐᓂ ᐱᑕᖃᕐᕕᐅᓂᖏᓐᓂᒃ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᓂᒃ ᐆᒪᔪᓂᒃ, ᓇᓃᖃᑕᕐᓂᖏᓐᓂᒃ, ᓇᔪᖅᐸᒃᑕᖏᓐᓂᓗ, ᖃᓄᕐᓗ ᑕᒪᒃᑯᐊ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓕᕐᒪᖔᑕ ᐱᔾᔪᑕᐅᓂᕐᒧᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖓ.

ᓴᐳᓐᓂᐊᕈᑕᐅᓂᖓᓄᑦ ᑐᕌᒐᓇᔭᐅᔪᑦ

ᐃᓕᑕᓇᔭᐅᓗᑎᒃ ᐊᔾᔨᖃᖏᓂᖏᑦ ᐊᕙᑎᖏᑦ ᐊᕙᑎᒥᐅᑕᖃᕐᓂᖏᓪᓗ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑕᖓᑕ ᐅᐊᖕᓇᖓᓂ ᑕᓇᐅᖓ, ᐃᒪᐃᓪᓗ, ᐊᕙᓗᐊᓂᓗ ᑲᖏᖅᑐᖏᑦ ᐊᒻᒪᓗ ᓯᒡᔭᖅᐸᓯᐅᓂᖏᓐᓂ ᐊᕙᑎᖏᑦ ᐊᕙᑎᒥᐅᑕᓇᔭᖏᓪᓗ. ᑐᕌᒐᓇᔭᐅᓂᖏᑦ ᑕᒡᕙ ᑐᕙᐃᔪᐃᑦᑑᑉ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᐅᓂᖓᓄᑦ ᐃᒪᐃᓕᖓᕗᑦ:

- **ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐃᑦ ᐊᐅᔪᐃᑑᑉ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᖏᓐᓂ ᓯᕐᒥᓂ ᐊᒻᒪᓗ ᑲᖏᖅᑐᖏᓐᓂ**
  - of ᓴᐳᓐᓂᐊᖅᑕᐅᓗᑎᒃ ᐊᖏᔪᐊᓗᐃᑦ ᐊᒥᓱᒐᓴᖕᓂᒃ ᐊᕐᕌᒍᓂᒃ ᓯᑯᑐᖃᐅᓂᐊᓗᖏᑦ ᑕᓇᐅᖑᓂᖓᓂ ᑲᓇᑕᒥᓂ ᖁᑦᑎᒃᑑᓂᖓᓂ, ᐃᓚᒋᔭᐅᔪᓪᓗ ᑕᒪᑐᒧᖓ ᓯᒡᔭᖅᐸᓯᐅᓂᖏᑦ, ᑲᖏᖅᑐᖏᓪᓗ, ᐊᓯᖏᓐᓗ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᓂ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᖏᑦ ᐱᐅᔪᓐᓃᕈᑕᐅᔪᓐᓇᕐᓂᕐᒥᒃ ᐃᓄᓕᒫᖑᔪᓄᑦ ᖃᓄᐃᓕᐅᕐᕕᐅᔪᓐᓇᕐᓂᕐᒥᒃ.
  - ᑎᑎᕋᕈᑕᐅᓗᑎᒃ ᓇᐅᑦᑎᖅᑐᖅᑕᐅᕙᓪᓕᐊᓗᑎᒡᓗ ᑕᑯᒃᓴᐅᕙᖕᓂᖏᑦ ᐊᒻᒪᓗ ᐆᒪᔪᓇᔭᐅᕙᖕᓂᖏᑦ ᑕᐅᕙᓂ ᑕᓇᐅᕐᒥ ᓯᑯᒥ, ᑕᓇᐅᖓᓂ ᐃᒪᕐᓂ, ᐊᒻᒪᓗ ᐊᐅᔪᐃᑦᑑᑉ ᕿᑭᖅᑖᓗᐊᑕ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᐊᓂᒃ ᑕᐃᒃᑯᐊ ᐊᑕᔪᑦ ᑕᒪᒃᑯᓄᖓ ᐊᕙᑎᖏᑦ ᐊᕙᑎᒥᐅᑕᓇᔭᖏᓪᓗ, ᖃᐅᔨᔭᐅᖃᑕᕈᓐᓇᕐᓂᐊᕐᒪᑕ ᐊᔾᔨᖅᐸᓪᓕᐊᔪᑦ ᐊᒻᒪᓗ ᓇᓚᐅᑖᖅᑕᐅᖃᑕᕈᓐᓇᕐᓂᐊᕐᒪᑦ ᖃᓄᖅ ᐊᒃᑐᖅᑕᐅᓯᒪᔪᓐᓇᕐᒪᖔᑕ.
- **ᓯᑯᒦᖃᑦᓂᖏᓐᓂᒃ ᐱᔾᔪᑎᖃᖅᑐᑦ ᐊᒻᒪᓗ ᐊᔾᔨᒌᖏᑦᑑᑎᐅᔪᑦ ᐆᒪᔪᓕᓇᓂᖅ**
  - ᑎᑎᕋᖅᑕᐅᕙᓪᓕᐊᓗᑎᒃ ᓴᐳᓐᓂᐊᖅᑕᐅᓗᑎᒡᓗ ᐊᔾᔨᒌᖏᓐᓂᖏᑦ ᐆᒪᔪᒐᓴᐃᑦ ᐊᕙᑎᖏᓪᓗ ᐊᕙᑎᒥᐅᑕᓇᔭᐅᔪᓪᓗ ᑕᒪᐃᓐᓂᒃ ᐃᒪᕐᒥ, ᓯᒡᔭᒥ ᐊᒻᒪᓗ ᓯᑯᐃᓐᓇᐅᓂᐊᓗᖕᓂ-ᑲᖏᖅᑐᓂ ᐃᓚᒋᔭᐅᔪᓂᒃ.
  - ᓄᓇᖑᓕᐅᕐᓗᑎᒃ ᓄᓇᖓᓂ ᐆᒪᔪᖃᕐᓂᖏᓐᓂᒡᓗ ᑐᕙᐃᔪᐃᑦᑑᑉ, ᑕᒪᒃᑯᐊ ᐱᖃᑕᐅᓗᑎᒃ ᑕᓇᐅᕋᓗᑉ ᓇᑎᐊᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᓂᖏᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᖏᓐᓂᖏᑦ.
  - ᓇᐅᑦᑎᖅᑐᖅᑕᐅᓂᖏᑦ ᑕᓇᐅᕐᒥ ᓯᑯᒥᐅᑕᐃᑦ ᓂᕿᒃᓴᓇᔭᐅᖃᑕᐅᕙᖕᓂᖏᓪᓗ ᖃᐅᔨᔭᐅᓂᐊᕐᒪᑕ ᐊᒃᑐᖅᑕᐅᓴᕋᐃᑦᑑᓂᖏᑦ ᓯᓚᐅᑉ ᐱᔾᔪᑕᐅᓂᖓᓄᑦ ᓴᖏᓂᖃᖓᓄᓪᓗ.
  - ᑎᑎᕋᖅᑕᐅᓗᑎᒃ ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒡᓗ ᑕᓇᐅᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᐃᑦ ᐱᑕᖃᕐᓂᖏᑦ ᓇᓃᖃᑕᕐᓂᖏᓪᓗ ᑕᐅᕙᓂ ᐃᒪᕐᓂ Lady Franklin Bay-ᒥ ᐊᒻᒪᓗ Archer Fiord ᑲᖏᖅᑐᖏᓐᓂᒃ, ᓇᓂᑐᐃᓐᓇᕐᓗ ᑕᒫᓂ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᐊᒻᒪᓗ ᐆᒪᔪᖃᕐᓂᖏᓐᓂᒃ, ᓂᕿᒃᓴᓇᕙᒃᑕᖏᓐᓂᒃ ᐊᑕᖃᑎᒌᖕᓂᖏᓂᓗ ᐆᒪᔾᔪᑕᐅᕙᒃᑐᑦ ᑕᒪᒃᑯᓄᖓ ᐱᑕᖃᖃᑕᕐᓂᖏᑦ.
  - ᑎᑎᕋᖅᑕᐅᓗᑎᒃ ᐊᒻᒪᓗ ᓴᐳᓐᓂᐊᖅᑕᐅᓗᑎᒃ ᐆᒪᔪᐃᑦ ᐊᒥᔾᓱᖏᓗᐊᓕᕐᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᕐᒥ, ᐊᒻᒪᓗ ᐃᑲᔪᖅᓱᖅᑕᐅᓗᑎᒃ ᐊᒥᓱᕈᖅᓯᐊᓇᔭᐅᓂᖏᓐᓂ ᐊᒻᒪᓗ ᖃᓄᐃᓕᐅᕈᑕᐅᒋᐊᕐᓂᐊᖅᑐᓂᒃ ᐸᕐᓇᐅᑎᓂᒃ ᐱᑕᖃᕐᓂᕈᑎᒃ.
  - ᑎᑎᕋᖅᑕᐅᓗᑎᒃ ᐆᒪᔪᖃᕐᓂᖏᓐᓂᒃ, ᓂᕿᒃᓴᓇᕙᒃᑕᖏᓐᓂᒃ ᐊᑕᖃᑎᒌᖕᓂᖏᓂᓗ ᐆᒪᔾᔪᑕᐅᕙᖕᓂᖏᓐᓄᑦ, ᓂᕿᒃᓴᓇᔭᐅᕙᖕᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᐆᒪᔪᖃᕐᕕᐅᕙᖕᓂᖏᑦ, ᑕᓇᐅᒥ ᓯᑯᒥ, ᑕᓇᐅᕐᒥ ᐃᒪᐅᑉ ᐊᐅᓚᓂᖓᓂᒃ ᐊᒻᒪᓗ ᐱᓗᐊᑕᐅᓂᖏᑦ ᓂᕿᒃᓴᓇᔭᐅᕙᖕᓂᖏᑦ ᐊᖏᓯᓐᓄᑦ ᐆᒪᔪᓄᑦ.

ᑐᑭᓯᑎᑦᑎᒋᐊᖃᑕᐅᓯᒪᔪᑦ

- ᔪᐋᓂᑦᓴᐅᕆᐊᑦ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ
- ᔾᑏᕝ ᑑᒃᓯᓐ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ
- ᑲᐃᓚ ᑳᒡᓕᐊᕐᑎ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ (ᐅᓂᒃᑳᖅᑎᐅᑎᑕᖅ)
- ᑭᐊᕙᓐ ᕼᐃᔾᔨᔅ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ
- ᓴᓇᓐ ᒪᒃᕖ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ (ᐃᒃᓯᕙᐅᑕᖕᒐᑦ)
- ᑯᕆᔅᑏᓐ ᒥᓯᐊᓪ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ
- ᔫᔅᓕᓐ ᐸᐅᓕᒃ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ
- ᒫᓂᒃ ᐸᒃᑯ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ
- ᑎᕕᑦ ᔪᒃᑲᐅᔅᑭ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ
- ᕼᐊᒻᒪᕗᕆ ᒥᐊᓕ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᐸᓯᕕᒃ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒐᓂ
- ᒃᑦᒃ ᕆᑦᓯᑦᔅ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᖃᐅᔨᓴᖁᕐᒐᖕᒐᓂ, ᑲᓇᑕᐅᑉ ᑲᓇᖕᓇᖅᐸᓯᖕᒐᓂ ᑕᕆᐅᓕᕆᔨᑦ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒐᓂ
- ᑦᓵᓐᑐᕋ ᑦᓯᒻᐳᔅ, ᐃᖃᓗᓕᕆᔨᖁᔪᐊᒃᑯᑦ ᑕᕆᐅᕐᒥ ᐃᒪᓕᕆᓂᕐᒧᑦ ᐸᕐᓇᐅᓂᖅ ᐊᒻᒪᓗ ᓴᐳᓐᓂᐊᕐᓂᖅ, ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᑉ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒐᓂ
- ᑕᐃᓵᓐ ᐸᓛᓐᓯᑦ, ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ
- ᕋᐃᔭᓐ ᐃᒍᓪᓴᓐ, ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ
- ᔅᑎᐊᕙᓂ ᒪᑳᓂ, ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ
- ᑳᓐᑎᔅ ᓂᐅᒪᓐ, ᒥᕐᖑᐃᖅᓯᕐᕕᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ
- ᓯᐃᔭ ᒪᕐᑎᓐ, ᓄᓇᕗᑦ ᒐᕙᒪᐃᑦ, ᐃᖃᓇᐃᔭᕐᕕᖕᒐᑦ ᐊᕙᑎᓕᕆᔨᒃᑯᑦ
- ᑎᐅᕆᒃ ᒥᐅᓗ, ᑲᕈᓪᓕᓐ ᐃᓕᓐᓂᐊᕐᕕᒻᔪᐊᕆᔭᐅᓂᖕᒐ
- ᔭᓄᕗ ᐳᕋᕕᓐᓯ, ᑲᓇᑕᒥᐅᑦ ᐆᒪᔪᓕᕆᔨᖕᒋᓐᓂ
- ᐋᓄᕈ ᕋᓐᑐᓪ, ᕿᑭᖅᑕᓂ ᐃᓄᐃᑦ ᑲᑐᔾᔨᖃᑎᒌᖕᒋᑦ
- ᐊᓕᒃᓵᓐᑐ ᔾᑏᕕᓐ, ᐊᕙᑎᓕᕆᔨᒃᑯᑦ ᓯᓚᐅᓪᓗ ᐊᓯᔾᔨᖅᐸᓪᓕᐊᓂᖕᒐᓄᑦ ᑲᓇᑕᒥ
- ᐆᓂ ᓚᕝᔪᐃ, ᓚᕙᓪ ᐃᓕᓐᓂᐊᕐᕕᒻᔪᐊᕆᔭᐅᖕᒐᓂ
- ᐆᓐ-ᐃᐅᕆ ᑐᕋᑉᓗ, ᓚᕙᓪ ᐃᓕᓐᓂᐊᕐᕕᒻᔪᐊᕆᔭᐅᖕᒐᓂ
- ᕙᕕᒃ ᕕᓐᓯᐊᓐᑦ, ᓚᕙᓪ ᐃᓕᓐᓂᐊᕐᕕᒻᔪᐊᕆᔭᐅᖕᒐᓂ

ᐊᖕᒋᕈᑕᐅᔪᑦ ᐅᑯᓄᖕᒐ

ᓕᐊᓇ ᐳᔅᑦᒪ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ, ᐊᕕᒃᑕᖅᓯᒪᓂᖕᒋᓐᓂ A-Γ ᐊᖕᒐᔪᖃᖕᒐᑦ

ᒫᕕᓐ ᑯᕆᔅᑎ, ᐋᓐᑎᐅᕆᔪᑉ ᓇᐹᖅᑐᖃᖕᒋᓐᓂᖕᒋᓐᓂ ᐊᕕᒃᑐᖅᓯᒪᓂᖕᒋᑦ, ᐊᕕᒃᑕᖅᓯᒪᓂᖕᒋᓐᓂ A-Γ ᐊᐅᓚᑦᑎᔨᖕᒐᑦ ᖃᐅᔨᓴᖅᑐᓕᕆᓂᕐᒧᑦ

(ᓄᕕᐱᕆ 20, 2020).

ᑐᑭᓯᓂᐊᕐᕕᐅᓯᒪᓂᖕᒋᑦ

ᖃᐅᔨᓴᖅᑎᓂᒃ ᑭᐅᒋᐊᕈᑏᑐᑦ ᐅᓂᒃᑳᓕᐊᑦ ᓴᕿᑎᑕᐅᓚᐅᖅᑐᑦ ᑕᐃᑲᖕᒐᑦ ᖃᐅᔨᓴᖅᑏᑦ ᑭᐅᔾᔪᑎᒃᓴᓂᒍᑎᒃᓴᓂᒃ ᐱᓕᕆᓂᖕᒋᓐᓂᒃ ᑕᒫᓂ ᐊᒃᑑᐱᕆ 6-7-Γ ᐊᒻᒪᓗ ᑕᒫᓂ ᐊᒃᑑᐱᕆ 28, 2020-Γ, ᓇᓗᓇᐃᔭᖅᑕᐅᓂᖕᒋᓐᓂ ᐃᓕᑕᕆᔭᐅᓯᒪᓂᖕᒋᑦ ᐱᒻᒪᕆᐅᓂᖕᒋᓐᓂᒃ ᑕᐅᕙᓂ ᐆᒪᔪᐃᑦ ᖃᓄᑦᑑᓂᖕᒋᓐᓂᒃ ᐊᒻᒪᓗ ᐊᕙᑎᖕᒋᑦ, ᐊᕙᑎᒥᐅᑕᕆᔭᖕᒋᓪᓗ ᑐᑭᓯᐊᓂᐊᕐᓂᖅ ᑐᕙᐃᔪᐃᑦᑑᑉ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕝᕕᖕᒐᓂ.

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ISSN 1919-5087
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ᐅᖃᓕᒫᒐᕐᓂᒃ ᑎᑭᓴᐃᔪᒪᔪᖅᑲᖅᐸᑦ ᐅᑯᓂᖓ ᑎᑎᖃᖃᕆᐊᖃᖅᐳᖅ, ᖃᓪᓗᓈᑎᑐᑦ:

ᐃᖃᓗᓕᕆᔨᕐᔪᐊᒃᑯᑦ. 2021. ᐃᓕᑕᕆᔭᐅᓂᖏᑦ ᐊᕙᑎᒥ ᐊᕙᑎᒥᐅᑕᖏᓐᓄᓪᓗ ᐱᒻᒪᕆᐅᓂᖃᖅᑐᑦ, ᖃᐅᔨᒪᔭᐅᖏᓗᐊᕐᓂᖏᓪᓗ, ᓴᐳᓐᓂᐊᖅᑕᐅᔪᒪᓂᕐᒧᑦ ᑐᕋᒐᕆᔭᐅᓂᖏᑦ ᑐᕙᐃᔪᐃᑦᑐᖅᒥ ᑕᕆᐅᕐᒥ ᓴᐳᓐᓂᐊᖅᑕᐅᓯᒪᕕᖓᓂ. ᐃᖃᓗᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᑲᓇᑕᒥ ᖃᐅᔨᓴᖅᑎᓄᑦ ᐅᖃᐅᔾᔨᒋᐊᖅᑏᑦ ᐃᖃᓇᐃᔭᕐᕕᖓᑦ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᔪᑦ ᑭᐅᔾᔪᑎᒃᓴᓂᒃᑕᐃᑦ 2020/056.

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