ᐊᕐᕌᒍᑕᒫᑦ ᖃᐅᔨᓴᖅᑐᓕᕆᔨᓂᕐᒧᑦ ᐅᓂᒃᑳᑦ ᐅᑯᓄᖓ:

ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᖃᑦᑎᑐᐃᓐᓇᕐᓄᑦ ᐊᕐᕌᒍᓄᑦ ᓚᐃᓴᖓ NF-NR-2019-NU-013
ᓄᓇᕗᒥ ᖃᐅᔨᓴᖅᑐᓕᕆᔨᒃᑯᑦ ᓚᐃᓴᖓ 02 012 21R-M
ᒪᐃᔭᐅᑉ ᐊᓪᓚᕝᕕᐊᓄᑦ, ᓱᓗᒃᑯᐃᑦ ᓄᓇᒥᒃ ᐊᐅᓚᑦᑎᖃᑎᒌᑦ ᑲᑎᒪᔨᕋᓛᓄᑦ ᐆᒪᔪᕐᓂᐊᑎᒃᑯᓄᓪᓗ, ᖃᐅᔨᓴᖅᑐᕐᒥ, ᓄᓇᕗᒥ ᐱᓕᕆᐊᑉ ᑕᐃᔭᐅᓂᖓ: ᑕᓯᐅᑉ ᓱᑯᖓ ᑲᓇᑕᒥ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕐᑯᑦᑎᑦᑐᒥ

ᑕᓯᐅᑉ ᓱᑯᖓ ᐱᒻᒪᕆᐊᓘᒻᒪᑦ ᐃᓚᒋᔭᐅᓪᓗᓂ ᓄᓇᐅᑉ ᖀᖓᓃᑦᑐᓄᑦ ᐊᒻᒪᓗ ᒫᓐᓇᕋᑖᖅ ᓂᕆᐅᒋᔭᐅᓕᕐᓯᒪᔪᓄᑦ ᐃᓱᒪᓇᖕᒐᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓇᒥᓕᒫᖅ ᓱᑯᖓ ᕿᓚᒥᐅᓂᕐᓴᖅ ᓱᑯᓱᒪᖃᑦᑕᓕᓛᕆᐊᖓ (20 - >100 days) ᐊᒻᒪᓗ ᐃᔾᔪᓂᖓ (0.3 - > 1 m) ᑕᐃᒫᑎᒋ ᐃᔾᔪᓂᖃᓛᕆᐊᖓ ᐊᕐᕌᒍᑉ ᖃᓂᒋᔭᖓᓂ 2100 [1]. ᑎᑎᕋᖅᑕᐅᓯᒪᔪᑦ ᐊᓱᔨᕐᓂᐅᔪᑦ ᓱᑯᒋᕙᑦᑕᖓᓂ ᐅᑭᐅᖅᑕᖅᑑᑉ ᑕᓯᖏᓐᓂ ᑎᑎᕋᖅᑕᐅᔭᕇᕐᓯᒪᒻᒪᑕ ᐊᕐᕌᒍᓂᑦ ᐊᒥᓲᖏᑦᑐᓂᑦ ᐊᓂᒍᖅᑐᓂᑦ. ᑕᒫᓂ ᒪᕐᕈᓕᕐᒋᒥ (ᓄᓇᕗᑦ), ᐃᖅᑲᓇᐃᔾᖑᕋᑖᕐᓯᒪᔪᑦ ᐃᓱᒪᓇᖕᒐᑦ ᓱᑯᓱᒪᑯᑖᖏᓂᕐᓴᐅᖃᑦᑕᓕᕐᓂᖓᓂᒃ ᖃᐅᓱᐃᑦᑑᑉ ᑕᓯᖓᓂ Resolute Lake 1960ᖏᓐᓂᓂᑦ [4], ᐊᒻᒪᓗ ᒫᓐᓇᕋᑖᖑᓯᒪᔪᖅ ᑕᒪᔅᓱᒪ ᒥᔅᓵᓄᑦ ᑎᑎᖅᑲᐃᑦ ᑕᑯᔅᓴᐅᒥᒻᒪᑕ ᓱᑰᑉ ᐃᔾᔪᓂᖓ ᒥᑭᑦᓕᕙᑦᓕᕐᓯᒪᓂᖓᓂᒃ ᐃᒪᓐᓇᑎᒋ ~50 cm ᑕᐃᒫᑎᒋ ᒥᑭᑦᓕᕙᑦᓕᕐᓯᒪᓂᖃᑦᓇᖅᑐᖅ ᒥᑭᔪᒥ ᕐᑯᑦᑎᑦᑑᑉ ᑕᓯᖓᓂ (Small Lake) ᑕᑯᑦᓗᒋᑦ ᓴᓂᐊᓂ 1980ᓕᓴᐃᑦ ᐱᒋᐊᖕᒐᕐᓂᖏᓐᓂ. ᐊᓯᔾᔨᐸᑦᓕᐊᑎᑦᓗᒍ ᑕᒪᓐᓇ, ᑐᑭᓯᔭᐅᔭᕆᐊᓖᑦ ᐊᑑᑎᓂᖏᑦ ᐊᒻᒪᓗ ᖃᓄᖅ ᐃᒪᖅ/ᐊᐅᓚᓂᖓᓗ ᐋᖅᑭᓯᒪᓂᖃᖃᑦᑕᕐᒪᖔᖅ ᐊᒻᒪᓗ ᐊᑑᑎᓂᖃᖃᑦᑕᕐᒪᖔᖅ ᐊᓯᖏᓐᓄᑦ ᖃᐅᔨᓴᕈᑕᐅᕙᑦᑐᓄᑦ (ᓲᕐᓗ ᒪᑯᐊ ᐆᒪᓂᓖᑦ, ᐃᒪᖓ ᑕᓯᐅᑉ, ᐃᖏᕋᖃᑦᑕᕐᓂᖓ). ᐱᔾᔪᑕᐅᓗᐊᕐᒥᔪᕐᓕ ᖁᑦᑎᑦᑐᒥ ᐊᑑᑎᓂᕆᕙᑦᑕᖏᑦ ᓯᓚᐅᑉ ᐊᓯᔾᔨᐸᑦᓕᐊᓂᖓᑕ ᑕᓯᕐᒥᐅᑕᐃᑦ ᐆᒪᔪᑦ (ᓲᕐᓗ ᐃᖃᓗᒃᐲᑦ) ᓯᑯᖃᑦᑕᖏᓐᓂᕐᓴᐅᓕᖅᑲᑦ ᑕᓯᕐᓂᑦ ᐊᑑᑎᓂᖃᕐᓂᐊᒥᒻᒪᑦ ᑕᓯᐅᑉ ᐊᖏᓂᖓᓂᒃ ᓲᕐᓗ ᖃᐅᒪᓂᕆᕙᑦᑕᖓ ᓯᑯᒃᑯᑦ, ᐊᑯᓂᐅᓂᕐᓴᖅ ᐃᒪᐅᖃᑦᑕᓕᖅᑲᑦ, ᐊᒻᒪᓗ ᐃᓗᓐᓇᖓᓂ ᐃᒪᖓᑕ ᓂᑦᓕᓇᕐᓂᖓ/ᐆᓇᕐᓂᖓ ᐱᕙᑦᓕᐊᑎᑦᓗᒍ. ᓄᓇᒥ ᓱᑰᑉ ᑕᐅᑐᑦᑕᐅᖃᑦᑕᕐᓂᖓ ᑲᓇᑕᒥ ᓄᖅᑲᐅᔭᐅᓂᑰᒻᒪᑦ 1990 ᖃᓂᒋᔭᖓᓂ, ᐊᒻᒪᓗ ᒫᓐᓇᕋᑖᖑᓯᒪᔪᖅ ᓱᑯᖃᑦᑕᕐᓂᖓᑕ ᐊᓯᔾᔨᕐᓂᖓ ᑎᑎᕋᖅᑕᐅᓯᒪᓗᐊᖕᒐᖓᑕ ᐊᒻᒪᓗ ᑎᑎᖅᑲᕐᑯᑎᓂᑦ ᓄᐊᑕᐅᓯᒪᔪᓂᑦ ᐊᑐᖅᑐᑎᒃ ᐊᒻᒪᓗ ᓇᔫᑎᙱᒃᑲᓗᐊᑐᑎᒃ ᐅᖓᓯᑦᑐᒥᒃ ᖃᐅᔨᓴᐅᑎᖃᖅᑐᑎᒃ. ᖃᐅᔨᓴᕐᓂᐊᕐᓗᒋᑦ ᐊᓯᔾᔨᕐᓂᐅᔪᑦ, ᐊᒻᒪᓗ ᓇᓗᓇᐃᑦᑎᐊᓂᐊᖕᒐᑦ ᖃᐅᔨᓴᕈᑕᐅᕙᑦᑐᑦ ᐊᒻᒪᓗ ᖃᖓᑦᑕᖅᑎᑕᐅᓯᒪᔪᒃᑯᑦ ᐊᔾᔨᓕᐊᖑᕙᑦᑐᑦ, ᑕᓯᐅᑉ ᓱᑯᖓᑕ ᒥᔅᓵᓄᑦ ᑎᑎᖅᑲᐃᑦ ᑲᓇᑕᒥ ᓄᐊᑕᐅᒻᒪᑕ ᓇᒥᓕᒫᖅ ᓱᕿᓂᕐᒥᐅᓂᑦ ᐅᑭᐅᖅᑕᖅᑐᒧᖓᔪᒥᑦ ᐄᐊᓕᕗᑕᓐ ᐋᓐᑎᐅᓇᐅᒥ (ᕿᑎᖓᓂ) ᑕᒪᐅᖓ ᓇᓄᐃᑦ ᐃᑎᑦᓕᖓᓄᑦ ᑲᓇᑕᒥ ᐆᒪᔪᖃᕐᕕᒃ ᐊᒻᒪᓗ ᖃᐅᓱᑦᑐᕐᒧᑦ (ᕐᑯᑦᑎᑦᑐᒥ). ᑕᒪᔅᓱᒪ ᒥᔅᓵᓄᑦ ᑎᑎᖅᑲᐃᑦ ᐊᑐᖅᑕᐅᒻᒪᑕ ᐋᖅᑭᒋᐊᕐᓯᒍᑕᐅᕙᑦᓕᐊᑦᓗᑎᒃ ᐊᑑᑎᓂᓇᕙᑦᑕᖓᓂᒃ ᐊᐱᓯᒪᖃᑦᑕᕐᓂᖓᑕ ᖃᐅᔨᓴᖅᑕᐅᔪᒧᑦ ᓱᑯᓱᒪᖃᑦᑕᕐᓂᖓᑕ ᐃᔾᔪᓂᖓᓄᑦ; ᑕᒪᓐᓇᑐᐊᖅ ᖃᐅᔨᓴᖅᑕᐅᓯᒪᓂᕐᖓᑦ ᖃᓄᑎᒋ ᐊᑯᓂᐅᑎᒋᔪᒥᒃ ᓱᑯᐃᕐᓯᒪᖃᑦᑕᕐᒪᖔᖅ ᐊᑦᑐᖅᑕᐅᓯᒪᒻᒪᖓᖅ ᖃᓄᐃᓕᖓᓄᑦ/ᖃᓄᑎᒋᓗ ᐊᖏᔫᑎᓄᖓᓄᑦ ᑕᓯᐅᑉ; ᐊᒻᒪᓗ ᐅᔾᔨᕐᓇᕐᓯᑎᒍᒪᓪᓗᒋᑦ ᐊᔾᔨᒌᙱᓐᓂᖏᑦ ᑕᒫᓂ ᐅᑭᐅᖅᑕᖅᑐᒥ ᐊᒻᒪᓗ ᕿᑎᖓᓂᐅᓂᕐᓴᖅ ᓱᑯᓱᒪᖃᑦᑕᕐᓂᖓ.

ᐱᓕᕆᔪᓐᓇᐅᑎᖃᖅᑎᑦᑎᔫᑉ ᐊᑎᖓ ᐊᒻᒪᓗ ᑐᕌᕈᑎᖏᑦ:

ᓗᒃᑖᖅ ᓗᐊᕋ ᕗᕋᐅᓐ
ᐊᓪᓚᕝᕕᐊᓂ ᓄᓇᓕᕆᔨᕐᒧᑦ, ᓱᓚᑦᑐᓴᕐᕕᔾᔪᐊᕐᒥ ᑐᕌᓐᑐᒥ ᒥᓱᓴᒐᒥ
3359 Mississauga Rd N, Mississauga, ON L5L 1C6
lc.brown@utoronto.ca

2021 ᖃᐅᔨᓴᖅᑐᓕᕆᔨᑦ:

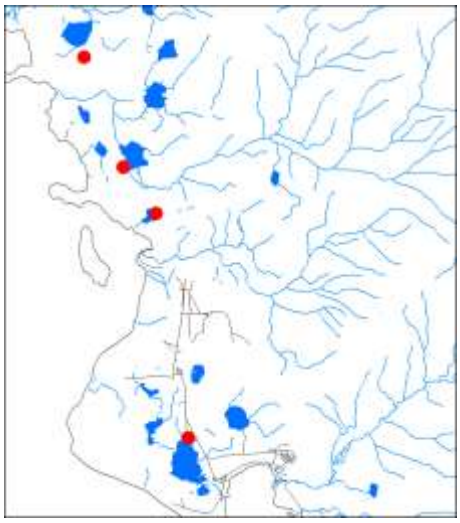
ᓗᐊᕋ ᕗᕋᐅᓐ, ᕗᕆᐊᓇ ᓚᐃᓐ, ᑖᓂᐊᓕ ᓱᕌᓄ, ᑲᑏᓇ, ᓯᐊᒪᖕ ᓱᐊᐅ
ᐱᓕᕆᖃᑎᒌᑦ ᓇᓄᐃᑦ ᐃᑎᑦᓕᖓᓄᑉᔪᔪᑦ ᐆᒪᔪᖃᕐᕕᒻᒧᑦ: ᓗᐊᕋ ᕗᕋᐅᓐ, ᕗᕆᐊᓇ ᓚᐃᓐ, ᑖᓂᐊᓕ ᓱᕌᓄ ᑲᑏᓇ, ᓯᐊᒪᖕ ᓱᐊᐅ, ᖁᓛᒍᓕᒧᑦ ᐊᕐᑯᑎ

ᐅᓪᓗᖓ ᐊᒻᒪᓗ ᖃᓄᑎᒋ ᐊᑯᓂᐅᑎᒋᔪᖅ ᖃᐅᔨᓴᕐᓂᖃᔪᒻᒪᖔᑕ:

ᖃᐅᔨᓴᕆᐊᖅᑐᑕ ᑕᐸᐅᖕᒐᔪᔪᒍᑦ 2021ᒥ ᐋᒡᒋᓯ 2ᒥ – 19ᒧᑦ, ᐱᖓᓱᓂᑦ ᐃᑲᕐᓂᑦ ᓇᓄᐃᑦ ᐃᑎᑦᓕᖓᓄᕐᓯᒪᓪᓗᑕ ᑲᓇᑕᒥ ᐆᒪᔪᖃᕐᕕᒻᒧᑦ ᐋᒡᒋᓯ 6ᒥ ᒪᕐᕉᓐᓂᒃ ᐃᑲᕐᕌᓐᓂᒃ ᐋᒡᒋᓯ 7ᒥ.

ᐃᖏᕋᔾᔪᑎᑎᒍᑦ ᐊᒻᒪᓗ ᐊᐅᓪᓚᕐᓯᒪᕕᒋᔪᔾᑎᓐᓂ ᐊᖅᑯᑎᒋᔪᔾᕗᑦ:

ᓇᐅᒃᑯᓚᑦᑖᔪᒻᒪᖕᒫᑦᑕ ᖁᑦᒧᓚᒃᑯᑦ ᑎᑎᕋᖅᑕᐅᔪᙱᑦᑐᖅ ᖃᐅᓱᐃᑦᑐᕐᒥ (PCSP) ᓇᓄᐃᑦ ᐃᑎᑦᓕᖕᒐᓄᑦ. ᒥᔪᔪᒍᑦ ᐃᑦᓗᕋᓛᑉ ᓴᓂᐊᓄᑦ ᓂᐅᓱᔭᖅᑐᖅᑐᑕ ᐊᒻᒪᓗ ᐋᖅᑭᔅᓱᕆᐊᖅᑐᖅᑐᒍ ᓱᓚᓕᕆᔾᔪᑎᔅᓴᖅ, ᒥᒃᑲᓐᓂᓚᐅᕋᑕ ᓱᓕ ᐊᔾᔨᓕᐅᕈᑎᕋᓛᑉ Small Camera ᓴᓂᐊᓄᑦ ᓱᓈᖕᒐᓂ ᐊᐅᑦᓚᕐᓯᒪᕕᐅᓲᑉ ᐊᖑᓇᓱᑦᑐᓄᑦ ᑕᓱᕐᒧᑦ Hunting Camp Lake (75.73N, 98.42W) (ᑕᑯᔭᔅᓴᑦ 1). ᐊᐅᑦᓚᕐᕕᒋᖅᑲᑦᑕᔪᔭᕗᑦ ᑕᓲᑦ ᓱᓚᑖᓃᑦᑐᑦ ᖃᐅᓱᐃᑦᑑᑉ ᐱᓲᑎᒃᑯᐃᓐᓇᖅ ᐊᑐᖅᑕᐅᔪᔪᑦ ᑖᒃᑯᐊ ᓇᓗᓇᐃᕐᓯᒪᔪᑦ ᐊᑐᕆᐊᑦ.



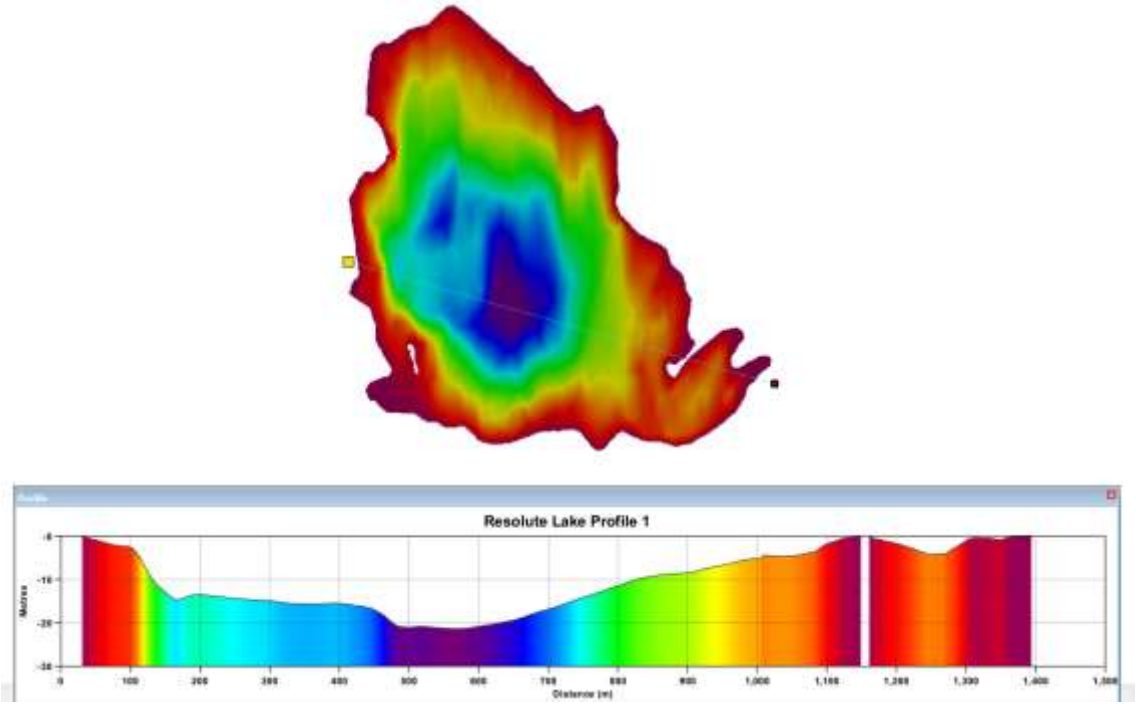
ᑕᑯᔭᔅᓴᖅ 1. ᓱᑯᑦᑎᐊᓄᑦ ᒥᖃᑦᑕᔪᒻᒪᖕᒫᑦᑕ ᐱᓕᕆᔪᒻᒪᖕᒫᑦᑕᓗ ᐆᒪᔪᖃᕐᕕᒻᒥ, ᐊᒻᒪᓗ ᐊᔾᔨᓕᐅᕈᑏᑦ ᐊᕙᑖᓂ ᕋᓴᓗᑦ ᑕᓱᐅᑉ.

<u>ᓇᐃᑦᓕᑎᕐᓯᒪᓪᓗᒋᑦ ᐱᓕᕆᓂᐅᔪᔪᑦ:</u>

ᑕᒫᓂ ᐊᕐᕌᒍᒥ, ᐱᓕᕆᖃᑎᒋᔪᔭᕗᑦ ᑕᒫᓂ ᑎᓴᒪᐅᔪᔪᑦ: ᓗᐊᕋ ᕗᕋᐅᓐ, ᕗᕆᐊᓇ ᓚᐃᓐ (MSc ᐃᓕᓐᓂᐊᖅᑎ ᐃᓚᒋᔭᐅᓕᔪᔪᖅ ᓱᓚᑦᑐᓴᕐᕕᔾᔪᐊᕐᒥ ᑐᕌᓐᑐᒥ ᓱᑎᐱᕆ 2021ᒥ), ᑖᓂᐊᓕ ᓱᕋᓅ ᑲᑏᓇ (MSc ᐃᓕᓐᓂᐊᖅᑎ, ᐊᕐᕌᒍᒥ 2ᒥ), ᓱᐊᒪᖕ ᓱᐊᐅ (MSc ᐃᓕᓐᓂᐊᖅᑎ, ᐊᕐᕌᒍᒥ 1ᒥ). ᐱᓕᕆᖃᑎᒌᑦᑐᑕ 17ᓂᑦ ᐅᓪᓗᓂᑦ (ᐋᒡᒌᓯ 2ᒥ - ᐋᒡᒌᓯ 19ᒧᑦ) ᐱᓕᕆᔪᔪᑦ PCSPᒥ ᖃᐅᓱᐃᑦᑐᕐᒥ, ᕿᓚᒥᕈᓗᒃ ᓇᓄᐃᑦ ᐃᑎᑦᓕᖕᒐᓅᕐᓯᒪᔪᔪᑦ, ᑐᒃᑐᓱᐅᕐᕕᒻᒧᑦ ᓱᒃᑯᑖᑦ ᐋᖅᑭᓱᖅᑕᐅᔭᖅᑐᖅᑐᑎᒃ (ᐅᓪᓗᖅ 1) ᐊᒻᒪᓗ ᐃᓚᖕᒐᓂᒃ ᑕᓱᐅᑉ ᐃᑎᓂᖕᒐᓂᒃ ᖃᐅᔨᓴᕆᐊᖅᑐᑎᒃ (ᐅᓪᓗᖅ 2).

ᐃᓚᖕᒋᑦ ᐱᔪᓐᓇᕐᔪᔪᕗᑦ 2019-202 ᑎᑎᖅᑲᐃᑦ ᓱᓇᒃᑯᑖᓂᑦ ᐊᒻᒪᓗ ᐱᔭᕇᖅᑐᒋᑦ ᖃᐅᔨᓴᕈᑎᒋᔪᒪᓱᒪᔪᔪᕗᑦ 2021ᒥ ᑕᑉᐸᐅᖕᒐᕐᓯᒪᓂᑦᑎᓐᓂ..

ᐱᔪᓐᓇᕐᔪᔪᕗᑦ ᓱᑰᑉ ᐃᔾᔪᓂᖕᒐᓂᒃ ᖃᐅᔨᓴᐅᑦ ᑕᓱᕋᓛᕐᒥ, ᑭᓱᐊᓂᓕ ᓱᕋᓴᓯᒪᔪᔪᖅ ᐅᓂᐊᖅᑕᐅᖃᑦᑕᔪᒻᒪᑦ ᓱᑰᑉ ᐃᖏᕋᓂᖕᒐᓄᑦ ᖃᓂᒋᓗᐊᖅᑕᖕᒐᓂ ᓱᔭᖕᒐᑕ ᐊᒻᒪᓗ ᑎᑎᖅᑲᓂᑦ ᐊᒥᓱᓂᑦ ᐊᓱᐅᔨᒍᑎᒋᔪᔭᕗᑦ ᑕᒪᒃᑮᓐᓂᒃ 2019-2020ᒥ 2020-2021ᒥ ᓱᑯᓱᒪᓂᖕᒐᓂ. ᖃᐅᔨᒪᖕᒋᑦᑐᖕᒐ ᓱᓕ ᑎᑎᖅᑲᐃᑦ ᓱᓕ ᐱᔭᓴᐅᒻᒪᖕᒫᑕ ᑖᒃᑯᓇᖕᒐᑦ ᒪᕐᕈᐊᑎᖅᑐᑎᒋᒃ ᖃᐅᔨᓴᕈᑕᐅᒐᓱᓴᓯᒪᔫᓐᓂᒃ. ᐊᑐᕈᓐᓇᓚᐅᖅᑐᒍᑦ ᐊᓱᐊᓂᒃ ᖃᐅᔨᓴᐅᒻᒥᑦ ᑕᒫᓂ ᐊᕐᕌᒍᒥ ᑕᐃᓐᓇ ᓴᓇᔭᐅᓇᓱᓐᓂᖕᒐᓂ ᐊᒻᒪᓗ ᓂᕆᐅᑦᑐᒍᑦ ᑎᑎᖅᑲᐃᑦ 2021-2022ᒥ ᐱᔭᓴᐅᓂᐊᕐᒪᖕᒫᑕ. ᐱᔪᓐᓇᓚᐅᖅᑕᕗᓪᓕ ᐊᑕᖕᒋᐸᓗᑦᑐᒋᑦ ᐊᔾᔨᓕᐅᕈᑎᒃᑯᑦ ᐊᔾᔨᓕᐅᕐᓯᒪᔪᑦ 2020-2021ᒥ (2019-202 ᓄᐊᔪᔭᖕᒋᑦ ᑎ. ᐃᖃᓗᑉ 2020ᒥ); ᐊᓱᐅᔨᔪᔪᒍᑦ ᐊᔾᔨᖕᒍᐊᓂᑦ ᐅᐊᓐᓇᖕᒐᓂ ᑕᓱᕐᒥ ᐊᒻᒪᓗ ᒪᓂᕋᕐᒥ ᑕᓱᕐᒥ, ᑭᓱᐊᓂ (North Lake and Plateau Lake), ᑭᓱᐊᓂ ᐃᓗᐃᑦᑐᒥᒃ ᓱᑯᖃᕐᓂᖕᒐᓂ ᐱᓱᒪᓪᓗᑕ ᕋᓴᓗᒻᒥ, ᑕᓱᕋᓛᕐᓂᓪᓗ. ᑕᒫᓂ ᐊᕐᕌᒍᒥ ᓄᐊᑦᑎᓚᐅᖅᑐᒍᑦ ᑕᓱᐅᑉ ᐃᑎᓂᖕᒋᓐᓂᒃ ᖃᐅᔨᓴᐅᑎᓂᑦ ᕋᓴᓗᑦ ᑕᓱᕐᒥ, ᐊᒻᒪᓗ ᐃᓚᖕᒐᓂ ᑕᓱᕋᓛᕐᒥ, ᐊᑐᖅᑐᑕ ᐊᑐᖅᑕᑎᓐᓂ ᓱᓇᒃᑯᑖᓂᑦ ᐃᒪᕐᒥᐅᑕᓕᕆᔨᒃᑯᓐᓂᑦ. ᑐᕌᖅᑲᔪᔪᒍᑦ ᓴᓇᒍᒪᓱᒪᓪᓗᑕ ᖃᕋᓴᐅᔭᒃᑯᑦ ᑕᑯᖃᑎᔭᓴᓂᑦ ᓄᓇᙳᐊᓂᑦ ᑭᓇᐃᓐᓇᕐᒧᑦ ᑕᑯᒍᒪᒐᔭᖅᑐᒧᑦ (ᑕᑯᔭᔅᓴᑦ 2) ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᕐᑯᒍᒥᓇᖅᑐᑦ ᖃᖓᑦᑕᖅᑎᑕᐅᓯᒪᔪᒃᑯᑦ ᓇᓗᓇᐃᕈᑕᐅᖃᑦᑕᕐᓗᑎᒃ ᓱᕗᓂᔅᓴᑎᓐᓂ ᐱᓕᕆᐊᔅᓴᓂᑦ ᑕᓱᐅᑉ ᐃᑎᓂᖕᒐᓂᒃ ᖃᖓᑦᑕᖅᑎᑕᐅᓯᒪᔪᒃᑯᑦ ᑎᑎᖅᑲᑎᒍᑦ. ᐊᑐᒃᑲᓐᓂᕈᓐᓇᕈᑦᑕ ᐊᓱᖕᒋᓐᓂᒃ ᓱᓇᒃᑯᑖᓂᑦ ᓱᕗᓂᔅᓴᑎᓐᓂ ᓄᓇᙳᐊᑎᒍᑦ ᐋᖅᑭᔅᓱᕈᒪᒐᔭᖅᑕᕗᑦ ᑕᓱᐅᑉ ᐃᖅᑲᖕᒋᑦ ᐊᓱᖕᒋᓐᓂᒃ ᖃᓂᒋᔭᖕᒋᓐᓃᑦᑐᓂᑦ ᑕᓱᕐᓂᑦ ᐱᖃᓱᐅᑎᒍᓐᓇᕈᑦᑎᒍ. ᖃᕋᓴᐅᔭᒃᑯᑦ ᓄᓇᙳᐊᑦ ᐊᑐᐃᓐᓇᐅᓕᖅᑲᑕ, ᓴᖅᑭᖅᑎᓛᖅᑕᒃᑲ ᐅᕙᖓ ᖃᕋᓴᔭᒃᑯᑦ ᑐᑭᓱᒋᐊᕈᑎᖃᕐᕕᖓᓂ.



Cdᔭᓴᑦ 2. ᑕᓯᐅᑉ ᐃᑎᓂᖓ ᐊᒻᒪᓗ ᖃᓄᐃᓕᖓᒻᒪᖔ ᐃᓗᓐᓇᓂ ᕋᓴᓗᑦ ᑕᓯᖅ.

ᓇᓄᐃᑦ ᐃᑎᑦᓕᖓ NWA ᓂᐅᔪᓐᓇᕐᓯᔪᔭᕗᑦ ᐊᒻᒪᓗ ᐋᖅᑭᑦᑐᒍ ᐊᔾᔨᓕᐅᕈᑎᕋᓛᖑᓂᐊᖅᑐᖅ ᐅᐊᓐᓇᖓᓂ ᑲᓇᓐᓇᕐᐸᓯᐊᓂ ᓯᔾᔭᖓᓂ ᐊᖑᓇᓱᒋᐊᕐᕕᐅᕙᑦᑑᑉ ᑕᓯᖓᓂ ᐊᒻᒪᓗ ᖁᕕᐊᓇᔪᔪᖅ, ᐋᖅᑭᓯᒪᑦᑎᐊᔪᒻᒪᑦ. ᓯᓚᓕᕆᔾᔪᑎ ᐋᖅᑭᑦᑕᐅᔪᔪᖅ, ᓂᑦᓚᓱᓐᓂᖓᓂᒃ ᐊᒻᒪᓗ ᐊᓐᓄᕆᖓᓂ ᖃᐅᔨᓴᐅᑦ ᐊᓯᔾᔨᖅᑕᐅᔪᔪᖅ, ᐊᒻᒪᓗ ᓯᓚᓗᓐᓂᕆᕙᑦᑕᖓᓂᒃ ᖃᐅᔨᓴᐅᑦ ᓴᓇᔭᐅᔪᔪᖅ. ᓄᐊᑦᑎᔪᓐᓇᕐᓯᔪᔪᒍᑦ ᐃᓚᖏᓐᓂᒃ ᑕᓯᐅᑉ ᐃᑎᓂᖓᓂᒃ ᖃᐅᔨᓴᐅᑎᓂᑦ ᐊᖑᓇᓱᒋᐊᕐᕕᐅᕙᑦᑑᑉ ᑕᓯᖓᓂ ᓵᖕᒐᓪᓗᓂ ᓯᔾᔭᖓᓄᑦ ᐊᔾᔨᓕᐅᕈᑦ ᐊᑐᖅᑐᑕ ᒥᑭᔪᒥᒃ ᐳᓪᓚᑦᑕᔫᕐᒥᒃ ᐅᒥᐊᕐᒥᒃ. ᖃᐅᔨᒪᓪᓗᑕ ᑲᑎᒪᔨᕋᓛᕐᓂᑦ ACMC ᓱᑯᖓ ᓱᑯᕙᓪᓕᐊᓲᖑᒻᒪᑦ ᐃᖅᑲᖏᓐᓂ ᐱᒋᐊᖅᑐᓂ ᑕᓯᕐᓂᑦ (ᐃᓱᒪᓇᖅᑐᓂ 3 m ᐃᑎᓂᓕᒻᒥᒃ), ᓇᓗᓇᐃᕐᓯᒪᑦᑎᐊᖅᑐᓂᑦ ᖃᐅᔨᓴᐅᑎᖃᓇᐊᖃᔪᒐᑕ ᑕᒫᓂ ᓵᖕᒐᔭᖓᓂ ᐊᔾᔨᓕᐅᕈᑎᐅᑉ. ᐸᕐᓇᓱᒪᔪᖓ ᓱᓕ ᐊᑐᖃᑦᑕᕈᒪᓂᐊᖅᑐᖓ ᐊᖑᓇᓱᒋᐊᕐᕕᐅᕙᑦᑑᑉ ᑕᓯᖓᓂ ᖃᐅᔨᓴᕐᕕᒋᓪᓗᐊᑕᖃᑦᑕᕈᒪᓪᓗᑕ ᑕᓯᖅ ᑕᒪᔅᓱᒥᖓ ᐃᓱᒪᒋᓪᓗᒋᑦ ᐊᑐᖃᑦᑕᓂᐊᖅᑕᕗᑦ ᖃᐅᔨᓴᐅᑎᑦᑎᓐᓂ, ᒫᓐᓇ ᓯᓚᐅᑉ ᖃᓄᐃᑦᑑᓂᖓᓂᒃ ᖃᐅᔨᓴᖅᑕᐅᔾᔪᑎᖃᕐᓯᒪᑎᓪᓗᒍ ᐊᒻᒪᓗ ᐊᐱᖃᑦᑕᕐᓂᖓᓂᒃ ᑎᑎᖅᑲᓂᑦ ᐱᑕᖃᖕᖓᑦ ᑕᒪᔅᓱᒪ ᒥᔅᓵᓄᑦ. ᑯᓗᑦ ᓚᕕᓐ ᑳᒻᕗᑦ ᖃᐅᔨᓴᖅᑐᓕᓇᔨᓂᑦ ᐃᓚᒋᔭᐅᓚᐅᙱᑦᑐᖅ ᐅᕙᑦᑎᓐᓄᑦ ᑕᒫᓂ ᐊᕐᕌᒍᒥ ᑭᓯᐊᓂ ᓱᓕ ᐃᓚᒋᔭᐅᑦᑎᐊᖅᑐᖅ ᐅᕙᑦᑎᓐᓄᑦ ᐱᔾᔪᑎᒋᓪᓗᒍ ᑖᓐᓴ ᓇᑉᐸᖅᑕᐅᓯᒪᔪᖅ ᐋᖅᑭᓯᒪᑎᑕᐅᔪᖅ ᐊᒻᒪᓗ ᑎᑎᖅᑲᓕᓇᔾᔪᑎᒋᕙᑦᑕᕗᑦ.

<u>ᑎᑎᕋᖅᑕᐅᓯᒪᓂᖏᑦ ᓂᕐᔪᑏᑦ ᑕᑯᔭᐅᕙᑦᑐᑦ (NWA):</u>

ᐋᒡᒋᓯ 6ᖑᑎᓪᓗᒍ ᑕᑯᔪᔪᒍᑦ 13ᓂᑦ ᐅᒥᖕᒪᓐᓂᑦ ᓇᕐᓴᖓᓂ ᖃᓂᒋᔭᖓᓂ CWS ᐃᓪᓗᕋᓛᖓᑕ, 1 ᐊᕕᖕᒐᖅ ᖃᓂᒋᔭᖓᓂ ᓯᓚᓕᕆᔾᔪᑎᐅᑉ, 1 ᑎᕆᐊᖅ ᐊᒻᒪᓗ 1 ᖃᑯᖅᑕᖅ ᑎᖕᒥᐊᖅ ᑎᖕᒥᔪᖅ ᖃᓂᒋᔭᖓᓂ ᓯᔾᔭᖓᑕ ᐊᖑᓇᓱᒋᐊᕐᕕᐅᕙᑦᑑᑉ ᑕᓯᐅᑉ. ᐋᒡᒋᓯ 7ᖑᑎᓪᓗᒍ 3 ᐅᒥᖓᐃᑦ ᓇᕐᓴᖓᓂ ᖃᓂᒋᔭᖓᓂ ᐃᓪᓗᕋᓛᑉ, ᐊᑕᐅᓯᒃᑲᓂᕐᒥᒃ (1) ᐅᒥᖕᒪᒻᒥᒃ ᐃᓄᑐᐊᕐᒥᒃ ᐅᖓᓯᓗᐊᖕᒋᑦᑐᒦᔪᔪᖅ ᐱᖓᓱᐃᑦ (3) ᐅᒥᖓᐃᑦ.

<u>ᓄᓇᓕᓐᓂᑦ ᑐᑭᓯᒋᐊᕐᕕᖃᕐᓂᖅ ᐊᒻᒪᓗ ᐃᓚᒋᔭᐅᑎᑦᑎᓂᖅ:</u>
ᐱᔾᔪᑎᒋᓪᓗᒋᑦ ᖃᓂᒪᓇᖅᑐᒧᑦ ᑭᓪᓕᓕᐅᕈᑕᐅᓯᒪᔪᑦ ᐃᖅᑲᓇᐃᔭᖅᑎᑖᕆᐊᖃᔪᙱᓇᑦᑕ ᐃᑲᔪᖅᑎᒋᓂᐊᖅᑕᑎᓐᓂᒃ ᑕᑉᐹᓂ ᐅᕝᕙᓘᓐᓃᑦ ᓄᓇᓕᓐᓄᕆᐊᖃᔪᙱᓇᑦᑕ ᐅᖃᖃᑎᖃᕆᐊᖅᑐᕐᓗ ᐆᒪᔪᕐᓂᐊᑎᒃᑯᓐᓂᑦ ᑕᐃᒪᐃᒍᒪᓯᒪᔪᒐᓗᐊᖅᑐᒍᑦ. ᑐᓴᐅᒪᖃᑦᑕᐅᑎᖃᑎᖃᔪᔪᒍᑦ ᐊᓪᓚᑦᑎᖓᓐᓂᒃ ᕼᐊᒪᓚᒃᑯᑦ ᐱᔾᔪᑎᒋᓪᓗᒋᑦ ᖃᐅᔨᓴᕐᓂᕐᒧᑦ ᐱᓕᕆᔾᔪᓐᓇᐅᑏᑦ ᑕᐃᒫᒃ ᑖᒃᑯᐊ ᑲᒪᒋᔪᓐᓇᕐᓯᔪᔭᕗᑦ ᐋᒡᒋᓯᒥ ᖃᐅᔨᓴᐅᑎᕗᑦ. ᐆᒪᔪᕐᓂᐊᑎᒃᑯᓐᓄᕈᔾᔨᔪᓐᓇᔪᙱᑦᑐᒍᑦ ᖃᕋᓴᐅᔭᕐᒧᑦ ᑲᑉᐳᔭᒐᕐᓂᑦ ᑎᑎᖅᑲᖃᓲᓂᑦ ᐊᕐᕌᒍᓂᑦ ᐊᓂᒍᖅᑐᓂᑦ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᔪᓂᑦ ᐊᔾᔨᙳᐊᓕᓐᓂᑦ, ᑭᓯᐊᓂᓕ ᑖᒃᑯᐊ ᑕᐃᑯᙱᐅᑎᓛᖅᑕᕗᑦ ᑕᑉᐸᐅᖑ ᐅᑎᕐᒥᒍᑦᑕ.

ᖃᐅᓱᐃᑦᑐᓕᐊᕈᓐᓇᔪᙱᑦᑐᒍᑦ ᒪᐃᖑᑎᓪᓗᒍ ᑕᐃᒫᒃ ᐸᕐᓇᓱᒪᔪᒐᓗᐊᕋᑦᑕ ᐱᔾᔪᑎᒋᓪᓗᒍ ᖃᓂᒪᓇᖅᑐᒧᑦ ᑭᓪᓕᓕᐅᕈᑕᐅᓯᒪᔪᑦ, ᑕᐃᒫᒃ ᐃᖃᓗᓕᐅᑎᔪᓄᑦ ᐃᓚᒋᔭᐅᔪᓐᓇᔪᙱᑦᑐᒍᑦ ᖃᐅᓱᐃᑦᑐᕐᒥ ᑕᐃᒫᒃ ᓂᕆᐅᔪᒐᓗᐊᕋᑦᑕ ᖃᐅᔨᓴᕋᔭᕆᐊᔾᔭᖅ ᓯᑯᑉ ᐃᔾᔪᓂᖓᓂᒃ.

ᖃᐅᓴᕐᓂᕐᒧᑦ ᓴᖅᑭᖅᑎᓯᒪᓗᔭᕗᑦ ᐃᓕᓴᕕᒻᒥ ᐱᑐᖃᐅᓕᕐᖓᑦ ᒫᓐᓇ ᐊᒻᒪᓗ ᓄᑖᕐᒥᒃ ᓴᓇᔪᒪᓂᐊᖅᑐᑕ ᓇᔅᓯᐅᑎᓛᖅᑕᑎᓐᓂᒃ, ᐅᕝᕙᓘᓐᓃᑦ ᐊᕐᕌᒍ ᑕᐅᕗᖕᒐᕈᓐᓇᓛᖅᑐᔅᓴᐅᕗᒍᑦ ᖃᐅᔨᓴᖅᑐᓕᕆᓂᕐᒧᑦ ᐅᓪᓗᖃᖅᑎᓪᓗᒋᑦ ᒪᐃᖑᓕᖅᑲᑦ ᐊᒻᒪᓗ ᓈᒻᒪᓈᕈᓐᓇᕐᓂᕈᑦᑕ. ᖁᔭᓐᓇᒦᖅᑕᕗᑦ ᑎᐊᕕ ᐃᖃᓗᒃ ᐊᔾᔨᓕᐅᕈᑏᑦ ᑲᒪᒋᒃᑲᓐᓂᕈᓐᓇᔪᒻᒪᒋᑦ 2020ᑎᓪᓗᒍ ᑕᓯᕐᓂᑦ ᖃᐅᓯᐃᑦᑑᑉ ᐊᕙᑖᓐᓂᑦᑐᓂᑦ. ᐅᖃᕐᕕᖃᒃᑲᓐᓂᕈᒪᓛᕐᒥᔪᒍᑦ ᐅᐱᖕᒐᖅ ᐃᑲᔪᖅᑕᐅᒍᒪᓗᑕ ᐊᔾᔨᓕᐅᕈᑎᓄᑦ ᐋᖅᑭᐅᒪᑎᑦᑎᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐅᖃᖃᑎᖃᓛᕈᒪᔪᒍᑦ ᐆᒪᔪᕐᓂᐊᑎᒃᑯᓐᓂᑦ ᐃᖅᑲᓇᐃᔭᖅᑎᑖᕈᓐᓇᕋᔭᕐᒪᖔᑦᑕ ᓇᓄᐃᑦ ᐃᑎᑦᓕᖓᓂ ᐊᕐᕌᒍᒥ ᑕᑉᐸᐅᖓᖅᑐᖃᕐᓂᐅᓴᑉᐸᓂᓛᒃ. ᐃᑲᔫᑎᖃᑦᑎᐊᕋᔭᕐᖓᑦ ᖃᐅᔨᒋᐊᖅᑕᐅᔪᓐᓇᖅᑲᑦ ᓇᑉᐸᖅᑕᐅᓯᒪᔪᖅᑯᑦ ᐊᔾᔨᓕᐅᕈᑎᓄᑦ ᐋᖅᑭᐅᒪᑎᑦᑎᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐅᖃᖃᑎᖃᓛᕈᒪᔪᒍᑦ ᐆᒪᔪᕐᓂᐊᑎᒃᑯᓐᓂᑦ ᐃᖅᑲᓇᐃᔭᖅᑎᑖᕈᓐᓇᕋᔭᕐᒪᖔᑦᑕ ᓇᓄᐃᑦ ᐃᑎᑦᓕᖓᓂ ᐊᕐᕌᒍᒥ ᑕᑉᐸᐅᖓᖅᑐᖃᕐᓂᐅᓴᑉᐸᓂᓛᒃ. ᐃᑲᔫᑎᖃᑦᑎᐊᕋᔭᕐᖓᑦ ᖃᐅᔨᒋᐊᖅᑕᐅᔪᓐᓇᖅᑲᑦ ᓇᑉᐸᖅᑕᐅᓯᒪᔪᖅ ᐊᒻᒪᓗ ᑎᑎᖅᑲᐃᑦ ᑕᐃᑲᖕᖓᑦ ᐱᔭᐅᔪᓐᓇᖅᑲᑕ.

<u>ᓯᕗᓂᔅᓴᑎᓐᓄᑦ ᐸᕐᓇᐅᑏᑦ ᓴᐳᔾᔨᕕᒻᒥ ᐊᒻᒪᓗ ᐃᓘᓐᓇᖓᓂ ᐱᓕᕆᐊᑦᑎᓐᓂ ᐱᕙᓪᓕᐊᓂᐅᔪᑦ:</u>

ᐃᓘᓐᓇᖓᓂ ᐱᓕᕆᐊᕐᒧᑦ ᐸᕐᓇᐅᑏᑦ ᓱᓕ ᐃᒪᐃᑦᑑᕗᑦ ᓇᐅᑦᑎᕐᓱᐃᓐᓇᕐᓗᒋᑦ ᑕᓯᕐᒥ ᓯᑯᖃᕐᓂᕆᕙᑦᑕᖕᒋᑦ ᑎᑎᖅᑲᓂᑦ ᓄᐊᑦᑎᕙᓪᓕᐊᓂᐊᕋᑦᑕ ᐊᕐᕌᒍᑕᒫᑦ ᐊᔾᔨᒌᙱᓐᓂᕆᕙᑦᑕᖕᒋᓐᓂᒃ. ᐆᒪᔪᖃᕐᕕᒻᒥ ᐋᖅᑭᔅᓯᓛᕈᒪᔪᒍᑦ ᐊᒥᓲᙱᑦᑐᓂᑦ ᐱᓕᕆᔾᔪᑎᔅᓴᓂᑦ ᓯᓚᓕᕆᔾᔪᑎᔅᓴᒥᒃ ᐊᒻᒪᓗ ᐃᓚᓯᓗᑕ ᖃᖓᑦᑕᖅᑎᑕᐅᓯᒪᔪᒃᑯᑦ ᑲᓲᒪᒐᔭᖅᑐᒥᒃ (2022ᒥ ᑲᔪᓯᒐᔭᖅᑐᓴᐅᙱᑦᑐᖅ ᑮᓇᐅᔭᑦ ᓈᒻᒪᒍᓐᓃᖓᑕ ᐊᑐᕈᓐᓇᑕᒃᑲ, ᑭᓯᐊᓂᓕ ᓂᕆᐅᓇᖅᑐᖅ ᑭᖑᓪᓕᕐᒧᑦ ᑮᓇᐅᔭᖃᖅᑎᑦᑎᒍᑕᐅᒐᔭᖅᑐᓄᑦ). ᐃᖅᑲᓇᐃᔭᖅᑎᑦᑎᒍᒪᒐᔭᖅᑐᒍᑦ ᐱᓕᕆᕕᑦᑎᓐᓂ ᐃᑲᔪᖅᑎᒋᒐᔭᖅᑕᑎᓐᓂᒃ ᖃᐅᓯᐃᑦᑐᕐᒥ ᐅᕙᑦᑎᓐᓂᒃ ᐱᓕᕆᖃᑎᖃᕋᔭᖅᑐᒥᒃ ᐊᑕᐅᓯᕐᒥᒃ ᒪᕐᕉᓪᓗᑭᐊᖅ ᐅᓪᓘᓐᓂᒃ ᐆᒪᔪᖃᕐᕕᓕᐊᕈᑦᑕ 2022ᒥ ᑕᐃᒪᐃᒍᓐᓇᖅᑎᑕᐅᒍᑦᑕ ᐊᒻᒪᓗ ᐅᖃᕐᕕᖃᓛᕆᕗᒍᑦ ᐅᐱᖕᒐᕐᒍᓕᖅᑲᑦ ᑮᓇᐅᔭᐃᑦ ᐊᐅᓪᓚᕐᓯᒪᕕᒋᒐᔭᖅᑕᑎᓐᓄᑦ ᐅᓪᓗᐃᑦ ᓇᓗᓇᐃᕐᓯᒪᑦᑎᐊᓕᖅᑲᑕ ᖃᐅᔨᓇᓱᒃᑲᔭᕋᑦᑕ ᐃᓚᐅᒍᒪᔪᖃᕋᔭᕐᒪᖔᖅ.

ᓯᑯᖃᑦᑕᕐᓂᖓ ᐊᒻᒪᓗ ᓯᑯᐃᕕᒋᕙᑦᑕᖓᑕ ᐅᓪᓗᖕᒋᑦ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᔪᓂᑦ ᓴᖅᑮᔭᖅᑐᐃᓐᓇᐃᑦ ᐅᕙᖓ ᐃᑭᐊᖅᑭᕕᖓᓂ: https://sites.utm.utoronto.ca/brown/content/lake-ice-cover-dates-nunavut. ᓯᓚᐅᑉ ᒥᔅᓵᓄᑦ ᑎᑎᖅᑲᐃᑦ ᐆᒪᔪᖃᕐᕕᒻᒥ ᓯᓚᓕᕆᔾᔪᑎᒥ ᐊᒻᒪᓗ ᖃᐅᓯᐃᑦᑐᕐᒥ ᓯᓚᓐᓂᐊᑭᑎᓂᑦ ᐊᑐᖃᑦᑕᖅᑐᑦ ᑕᓯᕐᒥ ᓯᑯᒥᒃ ᖃᐅᔨᓴᐅᑎᐅᓪᓗᓂ, ᖃᐅᔨᓴᐅᑎᐅᓪᓗᓂ ᓯᑯᓯᒪᖃᑦᑕᕐᓂᖓᓂᒃ ᑕᐃᑯᖓ ᐱᒋᐊᕕᒋᓯᒪᔭᖓᓄᑦ ᓯᓚᐅᑉ ᒥᔅᓵᓄᑦ ᑎᑎᖅᑲᖁᑎᑖᕈᑕᐅᒪᔪᓂᑦ.

ᐊᑕᐅᓯᕐᒥᒃ ᓄᑖᕐᒥᒃ ᐅᓂᒃᑳᓕᐊᖑᓯᒪᔪᓂᑦ ᓴᖅᑭᕐᓯᒪᔪᖃᖅᑐᖅ ᐊᑐᖅᑐᑎᒃ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᔪᓂᑦ ᓯᑯᕕᒋᖃᑦᑕᖅᑕᖓ ᐅᓪᓗᖕᒋᓐᓂᒃ, ᐊᒻᒪᓗ ᐊᓯᐊᓂᒃ ᐅᓂᒃᑳᓕᐊᖑᓯᒪᔪᓂᑦ ᐅᖃᓕᒫᕈᒪᒐᔭᖅᑕᕐᓴᓇᔭᓯ ᑭᓯᓂᐊ ᐱᓕᕆᕕᒋᓯᒪᔭᑦᑎᓐᓈᖓᙱᑦᑐᓪᓕ (ᑕᒪᒃᑮᒃ ᑕᑯᔅᓴᐃᓐᓇᐅᓪᓗᑎᒃ ᐅᖃᓕᒫᕈᒪᒐᔭᖅᑐᓄᑦ):

1. Dauginis A and Brown LC. 2021. Recent changes in pan-Arctic sea ice, lake ice, and snow-on/off timing. The Cryosphere, 15, 4781–4805, https://doi.org/10.5194/tc-15-4781-2021
2. Robinson AL, Ariano SS, Brown LC. 2021. The Influence of Snow and Ice Albedo towards Improved Lake Ice Simulations. Hydrology, 8(1), 11, https://doi.org/10.3390/hydrology8010011

ᐃᓘᓐᓇᑎᐸᓗᒃ ᑲᑎᒪᓂᐅᓂᐊᕐᓯᒪᔪᑦ ᓄᖅᑲᖅᑎᑕᐅᔪᒻᒪᑕ 2020ᒥ 2021ᒥᓗ ᑕᐃᒫᒃ ᓄᑖᓂᑦ ᐅᓂᒃᑳᓴᖅᑕᖅᑲᖕᒋᑦᑐᖅ ᑐᑭᓯᑎᑦᑎᒋᐊᕈᑎᔅᓴᓂᑦ. ᐊᕐᕌᒍᓂᐊᖅᑐᒥᓕ ᑭᓯᐊᓂ, ᓂᕆᐅᑦᑐᖓ ᐊᑕᐅᓯᕐᒥᖑᓐᓃᑦ ᐱᔭᕇᕐᓯᓯᒪᔪᒥᒃ ᐃᓕᓐᓂᐊᖅᑎᒥᒃ ᐅᓂᒃᑳᖅᑐᖅᑲᕐᖅᑐᕐᓇᐊᖓ ᐊᑐᕐᓗᑎᒃ ᐱᓕᕆᕕᑦᑎᓐᓂ ᑎᑎᖅᑲᓂᑦ ᓄᐊᑕᐅᓯᒪᔪᓂᑦ ᐋᒡᒋᓯ 2021ᒥ, ᒪᕐᕈᐊᑎᕐᓗᑎᒃ ᐱᖓᓱᐊᖅᑎᕐᓗᑎᓪᓗᑭᐊᖅ ᑲᑎᒪᓂᐅᔪᓂᑦ ᑲᔪᓯᓐᓂᖅᑲᑕ 2022ᒥ.

ᓇᓗᓇᐃᕐᓯᕗᖓ ᑖᒃᑯᐊ ᑎᑎᖅᑲᐃᑦ ᐱᑦᑎᐊᕐᓯᒪᓂᕐᖅᑐᒥᑦ ᐊᒻᒪᓗ ᐱᔭᕇᕐᓯᒪᓂᕐᖅᑐᒥᑦ ᐅᕙᖓ ᖃᐅᔨᒪᔭᖓᓂᒃ.

ᐊᑎᓕᐅᕈᓯᖓ ᐱᓕᕆᔾᔪᓐᓇᐅᑎᓕᐅᑉ:

ᐅᓪᓗᖓ (ᐊᕐᕌᒍ/ᑕᖅᑭᖅ/ᐅᓪᓗᖅ):___2021/11/01_____