1

ᓄᑖᓂᒃ ᑐᓴᒐᒃᓴᐃᑦ 2020-ᒥ ᐱᓕᕆᐊᖑᔪᒪᔪᓄᓪᓗ 2021-ᒥ ᐸᕐᓇᐅᑕᐅᓂᖏᑦ

ᑲᓇᑕᒥ ᐆᒪᔪᓕᕆᔨᕐᔪᐊᒃᑯᑦ ᐱᔨᒃᓯᕋᕐᑎᖏᑦ ᐊᕐᕌᒍᖕᓄᑦ ᓚᐃᓴᓐᓯ NF-NR-2019-NU-013
ᓄᓇᕗᑦ ᖃᐅᔨᓴᕐᕕᒃ ᓚᐃᓴᓐᓯ 02 009 19R-M

ᒪᐃᔭᕆᔭᐅᔫᑉ ᐊᓪᓚᒃᕕᖓ, ᓱᓗᒃᕙᐃᑦ ᐊᐅᓚᑦᑎᔨᐅᖃᑕᐅᔪᑦ ᑲᑎᒪᔨᖏᑦ ᐊᒻᒪᓗ ᐊᖑᓇᓱᑦᑐᓕᕆᔨᒃᑯᖏᑦ, ᖃᐅᓱᐃᑦᑐᖅ ᓄᓇᕗᑦ

ᑲᒪᒋᔭᐅᔫᑉ ᐊᑎᖓ: ᑕᓯᖅ ᑲᓇᑕᐅᑉ ᖁᑦᓯᑦᑐᕐᒥᐅᑦ ᐅᑭᐅᑦᑕᕐᑐᖓᓂ

ᐱᓕᕆᐊᖑᓚᐅᕐᑐᒥᒃ ᐅᓂᒃᑳᖅ:

ᑕᓯᖅ ᐃᓚᒋᔭᐅᕗᖅ ᐱᒻᒪᕆᐅᓪᓗᓂ ᐊᕙᑎᑎᑦᑎᓐᓂ ᐅᓪᓗᒥᒨᖓᓂᕐᓴᐅᔪᓂᓪᓗ ᖃᐅᔨᓴᕐᑕᐅᓯᒪᓂᖏᑦ ᓇᓗᓇᕐᓯᓚᐅᕐᐳᑦ ᒥᑭᓪᓕᕙᓪᓕᐊᓂᐊᖕᓂᖓᓂᒃ ᓯᑯ ᐅᑭᐅᑦ ᕼᐊᓐᓇᓚᐃᑦ ᓈᒃᐸᑕ (ᐅᓪᓗᓄᑦ 20ᓄᑦ ᐅᕗᖓ 100 ᐅᓪᓗᓄᑦ) ᐃᔾᔪᓂᖓ (ᐃᒪᐃᓪᓗᐊᕐᓗᓂ 30cm ᐅᕗᖓ 1mᒧᑦ) ᐊᒥᓲᓂᕐᓴᐃᑦ ᓄᓇᑯᑦ ᖃᐅᔨᓴᖕᓂᐅᓯᒪᔪᑦ ᑲᓇᑕᒥ ᓄᖃᓚᐅᕐᓯᒪᒻᒪᑕ ᐊᕐᕌᒍᖏᓐᓂ 1990ᖏᓐᓂ, ᐅᓪᓗᒥᒨᖓᔪᐃᑦ ᐊᓯᔾᔨᕐᓯᒪᓂᖏᑦ ᓯᑰᑉ ᖃᓄᐃᓐᓂᖏᑦ ᑎᑎᕋᕐᑕᐅᓗᐊᕐᓯᒪᒻᒪᑕ ᐊᔾᔨᖑᐊᑎᒍᑦ ᐊᒻᒪᓗ ᐅᖓᓯᑦᑐᒥᒃ ᖃᐅᔨᓴᐅᑎᓄᑦ. ᖃᐅᔨᓴᕐᑕᐅᓂᑯᐃᑦ, ᐊᑑᑎᖃᒐᔭᕐᑐᑦ ᐅᖓᓯᑦᑐᒥᒃ ᖃᐅᔨᓴᐅᑎᖏᑦ ᐊᒻᒪᓗ ᐊᔾᔨᖑᐊᑎᒍᑦ ᖃᐅᔨᓴᕐᑕᐅᓯᒪᔪᑦ ᐊᑑᑎᖃᕐᑐᒥᒃ ᓇᓗᓇᐃᕐᑕᐅᓂᐊᕈᑎᒃ ᖃᐅᔨᓴᕐᑎᐅᔪᓄᑦ, ᒪᓐᓇᐅᔪᖅ ᐊᑲᐅᓗᐊᖏᒻᒪᑕ ᐱᓕᕆᒍᒪᔪᓂᒃ ᐊᑭᓕᕐᑕᐅᖏᓪᓗᑎᒃ ᐱᓕᕆᔪᓂᒃ ᖃᐅᔨᓴᕐᑐᐃᑦ ᐊᓚᒃᑲᕐᓯᒪᔪᑦ ᒥᑭᓪᓕᓯᒪᓕᕐᑎᓪᓗᒍ ᑲᓇᑕᐅᑉ ᖃᐅᔨᓴᖕᓂᕐᒧᑦ ᐱᓕᕆᕈᓘᔭᕐᑎᓪᓗᒋᑦ ᐊᑐᕐᑕᐅᑐᐃᓐᓇᕐᓯᒪᓪᓗᑎᒃ ᓯᑯᒥᒃ ᖃᐅᔨᓴᖕᓂᕐᒥᒃ. ᐊᓯᔾᔨᖕᓂᖏᑦ

ᓇᓗᓇᐃᕐᑕᐅᑎᓪᓗᒋᑦ ᓯᑰᑉ ᖃᓄᐃᓐᓂᕆᕙᒃᑕᖏᑦ, ᑐᑭᓯᓪᓚᕆᒋᐊᖃᕋᑦᑕ ᐊᑲᐅᖏᓕᐅᕈᑕᐅᔪᓂᒃ ᐊᒻᒪᓗ ᖃᓄᐃᓕᐅᕈᓐᓇᓂᑦᑎᓐᓂᒃ ᐱᔾᔪᑎᒋᓪᓗᒍ ᐃᒪᖅ ᖃᓄᐃᑎᒃᓯᒍᓐᓇᖕᓂᖓᓂᓪᓗ ᐊᒻᒪᓗ ᐊᒃᑐᐃᖃᑦᑕᖕᓂᖏᑕ ᐊᓯᒐᓚᖏᓐᓂᒃ ᖃᐅᔨᓴᕐᑕᐅᔪᓂᒃ (ᐆᒃᑑᑎᒋᓗᒋᑦ Limnology, ᐃᖏᕐᕋᕐᔪᑏᑦ). ᑲᔪᓯᑦᑎᐊᖁᓪᓗᒍ ᑖᓐᓇ, ᓄᐊᑕᐅᔪᑦ ᑕᓯᕐᒦᖔᕐᑐᑦ ᑲᓇᑕᒥ ᓄᐊᑕᐅᒻᒪᑕ ᐊᑐᐊᕐᓯᓗᑎᒃ ᓄᓇᖓ ᒪᓕᓪᓗᒍ (ᐆᓇᖕᓂᖓ, ᐅᑭᐅᑦᑕᕐᑐᖅ, ᖁᑦᓯᑦᑐᖅ). ᖃᐅᔨᓴᕐᑕᑦ ᓄᐊᑕᐅᔪᐃᑦ ᓄᓇᒃᑯᑦ ᐊᑐᕐᑕᐅᓂᐊᕐᑐᑦ ᖃᓄᐃᓲᖑᓂᖏᑕ ᐊᐳᑎᐅᑉ ᖃᓄᐃᑎᒃᓯᕙᖕᓂᖓᓂᒃ ᓯᑰᑉ ᐃᔾᔪᓂᖓᓂᒃ, ᑲᓄᕐᓗ ᑐᑭᓯᓇᓱᑦᑕᐅᓗᓂ ᖃᓄᐃᒋᐅᓂᖓ ᓯᑯᖓ ᓯᑯᐃᓲᖑᒻᒪᖔᑦ ᐊᒃᑐᐃᕙᖕᓂᖓᓂᓪᓗ ᑕᓯᐅᑉ ᖃᓄᐃᓪᓗᐊᕐᑑᓂᖓᓂᒃ ᐊᕙᓗᐊᑕᓗ ᖃᓄᐃᑦᑑᓂᖓᓂᒃ. ᖃᐅᓱᐃᑦᑑᑉ Polar Bear Pass−ᓗ ᓇᒦᓐᓂᖏᑦ ᐊᑲᐅᔪᑦ ᖁᑦᓯᑦᑐᖕᒥᐅᓃᑦᑐᑦ ᖃᐅᔨᓴᕐᑕᐅᓂᖓᓂᒃ ᓄᐊᑦᓯᓗᑎᓪᓗ ᖃᐅᔨᓴᕐᑕᐅᕙᓪᓕᐊᔪᐃᑦ ᐱᕙᓪᓕᐊᓕᕐᑐᑦ.

ᐱᔪᓐᓇᐅᑎᖃᕐᑑᑉ ᐊᑎᖓ ᑐᕌᕈᑎᖏᓪᓗ:

ᓗᐊᕋ ᕗᕋᐅᓐ

ᓯᓚᑦᑐᓴᕐᕕᒃᔪᐊᑉ ᒥᓯᓵᒐ ᑐᕌᓐᑐᒥ
3359 ᒥᓯᓵᒐ ᐊᑐᕆᐊᖓᓂ ᐅᐊᓐᓈᓂ, ᒥᓯᓵᒐ, ᐋᓐᑎᐅᕆᔪ L5L 1C6
lc.brown@utoronto.ca

2020-ᒥ ᖃᐅᔨᓴᖅᑎᐅᓚᐅᖅᑐᑦ:
ᓄᓇᒧᖓᐅᔪᓐᓇᓚᐅᖏᑦᑐᒍᑦ ᖃᐅᔨᓴᕆᕈᓐᓇᕐᓂᕐᒧᑦ 2020-ᒥ ᓄᕙᖕᓇᕐᔪᐊᖅ ᐱᔾᔪᑕᐅᓂᖓᓄᑦ ᐊᔪᖅᑎᑕᐅᓚᐅᕐᓂᑎᓐᓄᑦ. ᐃᓚᖏᓐᓂᒃ ᐱᔪᓐᓇᖅᓯᓚᐅᖅᑐᒍᑦ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᔪᕕᓂᕐᓂᒃ ᑕᐃᑲᖓᑦ ᑎᐊᐱ ᐃᖃᓗᖕᒥᒃ ᑐᓂᓯᔪᓐᓇᓚᐅᕐᒪᑕ ᐅᕙᑎᓐᓂᒃ.

ᖃᐅᔨᓴᖅᑎᐅᖁᓂᐊᖅᑕᕗᑦ 2021-ᒥ ᐱᓕᕆᔩᑦ:

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ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᖕᒧᑦ ᐊᐅᓪᓚᕈᓐᓇᖅᓯᓐᓂᕈᑦᑕ ᑕᒫᓂ 2021-ᒥ, ᐱᖓᓱᓂᒃ ᖃᐅᔨᓴᖅᑎᖃᕐᓂᐊᖅᑐᒍᑦ ᑕᒫᓂ ᑕᕿᖓᓂ ᒪᐃᒥ ᐊᒻᒪᓗ ᖃᐅᔨᓴᖅᑎᖃᕈᒪᓗᑕ ᓯᑕᒪᓂᒃ ᑕᒫᓂ ᐋᒐᓯᒥ, ᒪᓕᒃᓗᒋᑦ ᓇᒧᖓᐅᔪᓐᓇᖅᓯᓂᖅ ᐊᐅᓪᓚᕐᕕᒃᓴᐅᔪᓐᓇᕐᓂᐊᖅᑐᑦ, ᐊᓯᔾᔨᕈᓐᓇᕐᒥᔪᑦ ᖃᐅᔨᓴᖅᑎᐅᖃᑕᐅᓂᐊᖅᑐᑦ ᐅᑯᐊ:
• ᓗᐊᕋ ᐳᕋᐅᓐ-Laura Brown (ᒪᐃ, ᐋᒐᓯ)
• ᒃᓛᐅᑦ ᓚᐲᓐ-Claude Labine (ᒪᐃ, ᐋᒐᓯ)
• ᑖᓂᐅᓪ ᓱᕋᓅ-Daniel Serrano Cadena (ᒪᐃ, ᐋᒐᓯ)
• ᐊᓕᒃᓯᔅ ᕌᐱᓐᓴᓐ-Alexis Robinson (ᐋᒐᓯ)
• ᐳᕇᐊᓇ ᓚᐃᓐ-Brianna Lane (ᐃᒻᒪᖄ ᐋᒐᓯ)
• ᑦᓯᐊᐅᒥᖕ ᓲ-Xiaomeng Zuo (ᐃᒻᒪᖄ ᒪᐃᒥᓗᓐᓃᑦ ᐋᒐᓯᒥᓗᓐᓃᑦ, ᐱᔭᕆᐊᖃᕈᓂ)
• ᓂᕆᐅᒃᑐᒍᑦᑕᐅᖅ ᐃᖃᓇᐃᔭᖅᑎᖃᕈᒪᓂᖅ ᖃᐅᓱᐃᑦᑐᕐᒥ ᐊᖑᓇᓱᒃᑏᑦ ᑲᑐᔾᔨᖃᑎᒌᖏᓄᑦ ᐃᑲᔪᖅᑕᐅᓗᑕ
ᑕᐅᕙᓃᓐᓂᑎᓐᓂ ᓇᓄᐃᑦ ᐃᑎᓪᓕᖓᓂᒃ, ᖃᐅᔨᒋᐊᕈᒫᖅᑐᒍᑦ ᑕᐃᒃᑯᐊ ᐸᕐᓇᐅᑕᐅᕙᒌᕆᐊᓖᑦ
ᐃᑲᔪᖅᓱᖅᑕᐅᓂᖏᑦ ᑐᑭᓯᓇᖅᓯᒍᑎᒃ.

ᐅᓪᓗᖏᑦ ᐊᑯᓂᐅᓂᕆᓂᐊᖅᑕᖏᓪᓗ ᐸᕐᓇᐅᑕᐅᔪᑦ ᖃᐅᔨᓴᕐᕕᐅᓚᖅᑐᑦ:

ᒪᐃ 11-ᒥᒃ – 25-ᒧᑦ & ᐊᒻᒪᓗ ᐋᒐᓯ 1 – 17: ᖃᐅᓱᐃᑦᑐᕐᒦᑦᑐᒪᔪᒍᑦ ᑕᐃᕙᓂᓗ ᓇᓄᐃᑦ ᐃᑎᓕᖓᓂᒃ ᒪᐃᖑᓕᖅᐸᑦ (ᑕᒫᓂ ᒪᐃ 11-25) ᕿᓚᒥᐅᓂᖅᓴᕐᓗᓐᓃᑦ ᐸᕐᓇᐅᑕᐅᔭᕆᐊᓖᑦ ᐃᑲᔪᖅᓱᖅᑕᐅᓯᒪᒍᑎᒃ) ᐱᔪᒪᓪᓗᒋᑦ 2020-ᒥ ᓄᓇᒥ ᖃᐅᔨᓴᖅᑕᐅᓚᐅᖅᑐᓂᒃ ᐊᒻᒪᓗ ᐆᒃᑐᕋᕈᒪᓪᓗᒋᑦ ᓯᑯᐃᑦ ᐃᔾᔪᑎᒋᓂᖏᑦ. ᑕᐅᕗᖓᐅᒃᑲᓐᓂᕈᒪᔪᒍᑦ ᐋᒐᓯ (ᐸᕐᓇᒃᓯᒪᓪᓗᑕ ᐋᒐᓯ 1-17, ᕿᓚᒥᐅᓂᖅᓴᕐᓗᓐᓃᑦ). ᑕᐃᒫᑦᓴᐃᓐᓇᖅ ᓯᕗᓂᐊᒍᑦ ᐊᕐᕋᒎᓚᐅᖅᑐᒥ, ᓇᓄᐃᑦ ᐃᑎᓪᓕᖓᓃᑯᑖᔾᔮᖏᒥᔪᒍᑦ, ᑕᐃᓐᓇ ᓯᓚᓯᐅᑦ ᐋᕿᐅᒪᑦᑎᐊᕐᒪᖔᑕ ᖃᐅᔨᒋᐊᕐᓂᐊᕋᑦᑎᒍᑦ ᐊᒻᒪᓗ ᑎᑭᓴᕐᓗᒋᑦ ᖃᕆᑕᐅᔭᒃᑯᑦ ᐊᔾᔨᓕᐅᖅᑕᐅᕙᓪᓕᐊᓚᐅᕐᓂᖏᑦ ᑕᐃᑲᖓᑦ.

ᓇᐃᓈᖅᑕᐅᓯᒪᓂᖏᑦ ᐱᓕᕆᐊᑦ / ᐸᕐᓇᐅᑏᓪᓗ ᓄᑖᒧᑦ ᐊᕐᕋᒍᓂᐊᖅᑐᒧᑦ:

ᓄᓇᒧᖓᐅᔪᓐᓇᓚᐅᖏᑲᓗᐊᖅᑎᓪᓗᑕ, ᖃᕆᑕᐅᔭᒃᑰᖅᑐᓂᒃ ᐱᓕᕆᐊᖑᕙᓪᓕᐊᔪᑦ ᑲᔪᓯᔪᓐᓇᓚᐅᖅᑐᑦ. ᐊᕐᕌᓂᓂᓴᕐᓂᒃ ᑕᑯᑎᑦᑎᓚᐅᕋᑦᑕ ᓯᑯᖓᓂᒃ ᑕᐅᕙᓂ ᑕᓯᕋᓛᕐᒥ Small Lake-ᒥ ᐊᒻᒪᓗ ᖃᓄᖅ ᐊᔾᔨᒋᓚᐅᖏᓂᖓᓂᒃ ᓯᑰᑉ ᐃᔾᔪᑎᒋᓂᖓᓂ ᐊᕐᕋᒍᖏᓐᓂᒃ ᑕᐃᕙᖓᑦ 1980-ᖏᓐᓂᒃ. ᑕᒫᓂ ᐊᕐᕋᒎᓵᖅᑐᒥ ᐃᓚᖏᓐᓂᒃ ᓴᕿᑎᑕᐅᔪᑦ ᑐᑭᓯᓇᖅᑐᑦ ᓯᑯ ᓵᒡᓕᒋᐊᖅᓯᒪᓂᖓᓂᒃ ᑕᐅᕙᓂ ᖃᐅᓱᐃᑦᑑᑉ ᑕᓯᖓᓂ-Resolute Lake-ᒥ ᑕᐃᒪᖓᓂᒃ 1960-ᖏᓐᓂᒃ, ᐱᓂᖅᓴᐅᑦᑎᐊᒻᒪᕆᓕᓚᐅᖅᑐᓂᒃ ᑕᒫᓂ ᐊᕐᕋᒍᖏᓐᓂ 1990-ᖏᓐᓂ. ᐊᒥᔅᓲᖏᑦᑐᓂᒃ ᐸᐸᑦᑎᓯᒪᔪᒍᑦ ᑕᐃᔅᓱᒪᓂᓂᑕᕐᓂᒃ ᖃᐅᔨᒪᔾᔪᑕᐅᕙᓚᐅᖅᑐᓂᒃ ᓯᑰᑉ ᐃᔾᔪᓂᖅᐸᖑᕙᓚᐅᕐᓂᖏᓂᒃ ᐊᑐᕈᓐᓇᖅᑕᑦᑎᓐᓂᒃ ᐊᔾᔨᒌᒍᓃᕐᓂᖏᓐᓄᑦ ᖃᐅᔨᔪᓐᓇᖃᑕᕐᓂᖅ. ᓯᑯᐃᕈᑎᕙᓪᓕᐊᓂᖅ ᐱᓪᓚᕆᐅᔪᔮᕐᒪᑦ. ᑭᓯᐊᓂ ᐃᓄᖕᓄᑦ ᐅᖃᐅᓯᕆᔪᒪᔭᕗᑦ ᑕᒪᒃᑯᐊ ᑕᐃᒃᑯᓄᖓ ᐃᖅᑲᐅᒪᔪᓐᓇᖅᑐᓄᑦ ᐊᕐᕋᒍᐃᑦ ᓯᕗᓂᐊᒍᑦ ᖃᓄᐃᓕᖓᕙᓚᐅᕐᓂᖓᓐᓂᒃ ᓯᑯ, ᒫᓐᓇᐅᓕᖅᑑᑉ ᓴᓂᐊᓂ. ᓯᑰᑉ ᐃᔾᔪᑎᒋᓂᖓᓂᒃ ᐆᒃᑐᕋᐃᓚᐅᖅᐳᑦ ᐃᖃᓗᒃᓯᐅᕐᕕᐅᓚᐅᕐᓂᕐᒥ, ᐱᐅᔪᐊᓘᕗᑦ, ᒪᐃᒥᓗ ᑕᐅᕗᖓᐅᓇᓱᒍᒪᓪᓗᖓ ᑕᐅᕙᓃᓐᓂᑦᑎᓐᓂᒃ ᑕᒫᓂ 2021-ᒥ.

ᑎᑎᖃᖁᑎᖃᓕᖅᑐᒍᑦ ᐅᓂᒃᑳᓂᒃ ᐱᔾᔪᑎᖃᖅᑐᓂᒃ ᐊᓯᔾᔨᖅᓯᒪᓂᖏᓐᓂᒃ ᐊᐳᑎᖓᓂ ᐊᒻᒪᓗ ᓯᑰᑉ ᐅᑭᐅᖅᑕᖅᑐᒥ ᕿᑭᖅᑕᒐᓴᐅᔪᓂ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᔪᓂᒃ ᖁᒻᒧᐊᒃᑎᑕᐅᓯᒪᔪᑦ ᐊᑐᖅᑕᐅᓪᓗᑎᒃ. ᐱᔾᔪᑎᖃᒻᒪᕆᖏᑲᓗᐊᖅᑎᓪᓗᒋᑦ

ᒫᓐᓇᐅᔪᖅ ᐱᓕᕆᐊᕆᔭᑦᑎᓐᓂᒃ, ᑭᓇᑐᐃᓐᓇᖅ ᖃᐅᔨᔪᒪᓐᓂᕈᓂ ᒫᓐᓇᓵᖑᓕᖅᑐᖅ ᐊᐳᑎᐅᑉ ᓯᑯᐃᓪᓗ ᖃᓄᐃᓕᕙᓕᕐᓂᖏᓐᓂᒃ ᐊᔾᔨᓕᐅᖅᑕᐅᓯᒪᓂᖏᓐᓂᒃ ᑎᑭᓴᐃᔪᓐᓇᖅᐳᑦ ᐅᕙᖓᑦ ᖃᕆᑕᐅᒃᑯᑦ ᑕᑯᓂᐊᖅᑕᐅᕝᕕᖕᒥᒃ:

Dauginis A and Brown LC. 2020. Sea ice and snow phenology in the Canadian Arctic Archipelago from 1997 - 2018. Arctic Science
ᑕᔾᔨᓂ ᐄ ᐊᒻᒪᓗ ᐳᕋᐅᓐ ᓗᐊᕋ ᑕᕆᐅᕐᒥ ᓯᑯᐊ ᐊᒻᒪᓗ ᐊᐳᑎᖓᑕ ᖃᓄᐃᓕᕙᓪᓕᐊᓂᖓ ᐊᕙᑎᒥ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᖅᐸᓯᐅᓂᖓᑕ ᕿᑭᖅᑕᒐᓴᐅᓂᖏᓐᓂ ᑕᒫᖓᑦ 1997 - ᑎᑭᓪᓗᒍ 2018. ᐅᑭᐅᖅᑕᖅᑐᒥ ᖃᐅᔨᓴᕐᓂᖅ. ᑐᕌᑎᓕᖕᒥᒃ https://doi.org/10.1139/AS-2020-0024

ᓂᕆᐅᒃᑐᒍᑦ ᓱᓕ ᐃᓚᓯᔪᒪᓂᖅ ᖃᕆᑕᐅᔭᒃᑯᑦ ᐊᑕᑕᕐᕕᐅᔪᓐᓇᕐᓂᐊᖅᑐᓂᒃ ᓯᓚᓕᕆᕕᖕᒧᑦ, ᓄᓇᓖᓪᓗ ᖃᐅᓱᐃᑦᑐᕐᒥ ᑐᓴᐅᒪᑎᑉᐸᓪᓕᐊᖏᓐᓇᓚᖓᔭᕗᑦ ᑕᒪᒃᑯᓂᖓ ᐱᓕᕆᐊᖑᕙᓪᓕᐊᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᖃᓄᖅ ᐱᔭᐅᔪᓐᓇᕐᓂᖏᓐᓂᒃ

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ᖃᐅᔨᔭᐅᕙᓪᓕᔪᑦ, ᐊᑐᐃᓐᓇᐅᔪᓐᓇᖅᓯᑐᐊᕈᑎᒃ. ᐸᕐᓇᐅᑎᖃᕐᒥᔪᒍᑦ ᐱᓕᕆᑲᓐᓂᕈᒪᓂᖅ ᐊᕐᕋᒎᓂᐊᖅᑐᖅ ᐊᔾᔨᓴᐃᓐᓇᕆᔭᖏᓐᓂᒃ ᐊᕐᕌᓂᐅᓚᐅᖅᑐᖅ ᐱᓕᕆᐊᕆᓚᐅᖅᑕᑦᑎᓐᓂᒃ; ᐋᕿᐅᒪᑎᑦᑎᓂᖅ, ᖃᕆᑕᐅᔭᒃᑯᑦ ᑎᑭᓴᐃᔪᓐᓇᕐᓂᖅ ᐊᔾᔨᖁᑎᖏᓐᓂᒃ ᐊᒻᒪᓗ ᐋᕿᒋᐊᖅᑕᐅᑎᐊᒃᑲᓐᓂᕐᓗᑎᒃ ᐊᔾᔨᓕᐅᕈᑎᖓᑦ, ᓯᑯᒥᒡᓗ ᖃᐅᔨᓴᕈᑎᒃ ᐊᒻᒪᓗ ᓯᓚᓕᕆᕕᒃ, ᐊᒻᒪᓗ ᐃᓚᖏᓐᓂᒃ ᓯᑯᒥᒃ ᐆᒃᑐᕋᐃᓗᑎᒃ ᐅᐱᕐᖔᒃᑯᑦ, ᐊᐅᓪᓚᕈᓐᓇᖅᓯᑎᑕᐅᒍᑎᑦ ᐃᓄᓕᒫᑦ ᑕᒫᓂ
ᒪᐃᖑᓕᖅᐸᑦ.