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ᓄᓇᖕᒋᐊᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ
ᒪᑐᐃᖓᔪᖅ ᑐᑭᖅᓯᒪᔪᑦ ᓄᓇᖕᒋᐊᑦ 217S
ᑲᓇᑕ-ᓄᓇᕗᑦ ᓄᓇᖕᒋᐊᓕᕆᓂᕐᒧᑦ ᑎᑎᕋᕐᕕᖓ
ᒪᑐᐃᖓᔪᖅ ᑐᕐᑯᖅᓯᒪᕕᖓ ᓄᓇᖕᒋᐊᖅ 2015-04S

ᐅᔭᕐᑲᓂᒃ ᓄᓇᖕᒋᐊᓕᐅᕐᓂᖅ

GRINNELL GLACIER

ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ

ᓄᓇᖕᒋᐊᑦ
ᑭᓱᓕᕆᓂᖏᓂᒃ
ᑎᑎᖅᑲᖏ

ᐱᒋᐊᕐᐸᓪᓕᐊᔪᑖ

ᓄᓇᖕᒋᐊᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ
ᑲᓇᑕᒥ ᓄᓇᒥᒃ ᖃᐅᔨᓴᐃᓂᕐᒧᑦ ᓄᓇᖕᒋᐊᑦ

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ᐊᑎᖓ

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ᐅᖃᖅᑕᐅᔪᖅ ᐃᓕᓯᒪᖁᔭᐅᔪᖅ

ᓯᑦ-ᐋᖕ, ᐃᒻ.ᐊ., ᐅᓚᐃᓄ, ᐃᓐ.ᐃᒻ., ᓯᑏᓐᑲᑉ, H.ᐃᒻ., ᐊᒻᒪᓗ ᒋᐅᐳᑦ, ᓯ., 2015. ᐅᔭᖃᓂᒃ ᓄᓇᙳᐊᓕᐅᕐᓂᖅ, Grinnell Glacier, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ; ᓄᓇᙳᐊᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ, ᒪᑐᐃᖓᔪᖅ ᑐᑭᖅᓯᒪᔪᑦ ᓄᓇᙳᐊᑦ 215S (ᐱᒋᐊᕐᐸᓪᓕᐊᔪᑖ); ᑲᓇᑕ-ᓄᓇᕗᑦ ᓄᓇᙳᐊᓕᕆᓂᕐᒧᑦ ᑎᑎᕋᕐᕕᖓ, ᒪᑐᐃᖓᔪᖅ ᑐᖁᖅᓯᒪᕕᖓ ᓄᓇᙳᐊᖅ 2015-02S, ᐳᖅᑐᓂᖓᓂ 1:100 000. doi:10.4095/296112

Abstract

This map synthesizes the field observations and initial interpretations for the Grinnell Glacier area following five weeks of regional and targeted bedrock mapping on the eastern Meta Incognita Peninsula, Baffin Island, Nunavut. Under the Geo-mapping for Energy and Minerals (GEM) Program, this area was targeted in 2014 to upgrade the geoscience knowledge and document the economic potential of the greater Iqaluit area south of Frobisher Bay. Field observations have constrained the distribution of

metasedimentary units comprising quartzite, marble, psammite, pelite, and semipelite, all of which can be correlated with the contiguous middle Paleoproterozoic Lake Harbour Group in the type area north of Kimmirut. The spatial distribution of a suite of layered mafic to ultramafic sills intrusive into the sedimentary strata in the western portion of the Grinnell Glacier map area was also documented and will be the focus of further study. Layering in the sills was observed on the centimetre to metres scale, with many bodies containing disseminated sulphide, some associated with ferricrete. The distribution of high-grade felsic and mafic plutonic rocks, tentatively interpreted as part of the middle Paleoproterozoic Cumberland Batholith, were delineated. Four distinct phases of deformation and two metamorphic episodes were recognized. The deformation and metamorphic events can be correlated with similar features and assemblages previously documented both on Baffin Island and on the Ungava Peninsula of northern Quebec, and will be utilized to compare, and improve on, existing regional tectonic models.

ᑕᒪᔅᓴᐅᔪᑦ

ᐅᓇ ᓄᓇᖑᐊᒥᒃ ᑲᑎᑦᑎᓇᔪᖅ ᓄᓇᒥ ᑕᐅᔭᐅᕙᒃᑐᓂᒃ ᐊᒻᒪᓗ ᑐᑭᓕᐅᕈᑎᒋᕙᓪᓕᐊᓗᒍ Grinnell Glacier ᓄᓇᖓᓂ ᐱᔭᕇᖅᓯᒪᓕᖅᑎᓪᓗᒍ ᑕᓪᓕᒪᓄᑦ ᐱᓇᓱᐊᕈᓯᓄᑦ ᐊᕙᒃᑐᖅᓯᒪᔪᖕᒋᓐᓂᒃ ᐊᒻᒪᓗ ᑐᕌᖅᑕᐅᔪᑦ ᐅᔭᖃᓱᒡᔪᐃᑦ ᓄᓇᖑᐊᓕᐊᖑᓪᓗᑎᒃ ᐱᓇᖕᓇᖓᓂ ᑭᓐᖓᐃᑦ, ᖁᑭᖅᑖᓗᖕᒥ, ᓄᓇᕗᑦ. ᐊᑖᒍ ᓄᓇᖑᐊᓕᐅᖅᓱᕆ ᐆᒪᖅᑯᑎᑦ ᐊᒻᒪᓗ ᐅᔭᖃᖕᓂᐊᒐᒃᓴᐃᑦ ᐱᓕᓇᑎᑦᑎᔾᔪᑕᐅᔪᑦ, ᐅᓇ ᓄᓇᖓ ᑐᕌᓇᔭᐅᓚᐅᖅᑐᖅ 2014 ᐋᖅᑭᒋᐊᑦᑎᐊᕈᑎᓂᐊᖅᑐᓄᑦ ᓄᓇᒥᒃ ᖃᐅᔨᓴᐃᓂᓪᒪᓇᒃ ᖃᐅᔨᒪᔭᐅᔭᓇᐊᓕᑦ ᐊᒻᒪᓗ ᑎᑎᕋᖅᑯᑎᖕᒋᑦ ᑰᓇᐅᔭᑎᒍᑦ ᐱᕙᓪᓕᐊᑎᑦᑎᓂᕐᒧᑦ ᐱᑕᖅᑲᕈᓐᓇᖅᑐᑦ ᐃᖅᑲᓗᐃᑦ ᓄᓇᖓᓂ ᓂᒋᐊᓂ ᕗᓘᐱᓯ ᐸᐃ. ᓄᓇᒥ ᑕᑯᔭᐅᔪᑦ ᓇᒥᑐᐃᓐᓈᖅᑐᑦ ᐅᔭᖅᑎᐊᕙᐃᑦ, ᖅᑭᓪᓕᒑᒃᑐᓕᑦ ᐅᔭᖅᑲᑦ, ᑎᓯᔪᑦ ᖅᑲᑐᖅᑐᑦ, ᖅᑲᓕᓈᓕᖕᒐᐅᖅᑐᑦ, ᐅᔭᖅᑲᑦ ᒪᓕᑦᑎᐊᖅᑐᑦ ᑭᓯᒥᒃ, ᐅᔭᖅᑲᑦ ᐃᓛᒃᑯᖅᑐᑦ ᒪᓕᑦᑎᐊᖅᑐᑦ ᑭᓯᒥᒃ ᑕᐃᒪᓗ ᑖᒃᑯᐊᓗ ᑲᑎᑦᑎᒐᒃᓴᐃᑦ ᐊᑕᔪᓂᑦ ᖅᑭᑎᐊᓂᑦ ᓄᓇᖅᔪᐊᖅ ᐱᒋᐊᓚᐅᖅᒪᑦ ᑭᒻᒥᕈᑦ ᓴᓇᔾᖕᒋᑦ ᑕᐃᒪᐃᑦᑐᓕᒃ ᐅᐊᖕᓇᖓᓂ ᖅᑭᒻᒥᕈᑦ. ᖅᑯᑖᓂ ᓴᖅᑭᓯᒪᔪᑦ ᓇᒧᑐᐃᓐᓈᖅᓯᒪᔪᑦ ᖅᑲᓕᓈᓕᑦ ᓴᕙᖃᔭᒃᓴᖅᑲᐅᖅᑐᑦ ᑕᒪᑐᒧᖓ ᐋᔾᔨᒋᖕᒋᑑᑎᑦ ᑲᑎᖓᔪᑦ ᐅᔭᖃᕐᒧᑦ ᑎᓇᖅᑯᓖᑦ ᐱᓇᖕᓇᖓᓂ Grinnell Glacier ᓄᓇᖑᐊᓂ ᓄᓇ ᑎᑎᕋᖅᑕᐅᓯᒪᒋᕗᖅ ᐊᒻᒪᓗ ᐊᐅᓪᓗᑎᓂᐊᖅᑕᑦ ᐃᓕᑕᐅᑲᓐᓂᕈᒪᔪᑦ. ᖅᑲᓕᓈᒃᑑᑎᑦ ᑕᑯᔭᐅᓯᒪᕗᑦ ᐊᖕᖏᓂᖕᒋᑦ ᓯᓐᑕᒦᑐᑎᒍᑦ ᑎᑭᓪᓱᒍᓗ ᒦᑕᑎᒍᑦ, ᐊᒥᓱᑦ ᑎᒥᖕᒋᑦ ᐃᓗᓖᑦ ᓇᒧᑐᐃᓐᓈᖅᓯᒪᔪᑦ ᐃᑭᑎᒃᓴᔭᒃ, ᐃᓚᖕᒋᑦ ᐃᓚᓯᒪᔪ ᐊᔾᔨᒋᖕᒋᑦᑎᐊᖅᑕᖕᒋᓐᓂᒃ ᐅᔭᖅᑲᓂᒃ. ᓇᒧᑐᐃᓐᓈᖅᓯᒪᔪᑦ ᐅᔭᖅᑎᐊᕙᖕᓂ ᐃᓚᓖᑦ ᐅᔭᖅᑲᑦ ᐊᒻᒪᓗ ᓴᕙᖃᔭᒃᓴᖅᑲᖅᑐᑦ ᐆᓇᖅᓯᓯᒪᓂᑯᐃᑦ ᐅᔭᖅᑲᑦ, ᑐᑭᓕᐅᖅᑕᐅᓯᒪᔪᑦ ᐃᓚᒋᔭᐅᓂᖓᓂ ᐃᒻᒪᑲᓪᓚᓂᑕᐃᑦ ᓄᓇᖅᔪᐊᖅ ᐱᒋᐊᓂᖓᓂᑦ, ᑕᒪᓐᓇ ᓴᖅᑭᓯᒪᔪᖅ. ᑎᓴᒪᑦ ᓴᖅᑮᔭᑦᐊᖅᑐᑦ ᓇᓗᓇᖕᒋᑦᑐᑦ ᐋᖅᑭᐅᑎᕙᓪᓕᐊᑎᐊᖅᑐᕙᓂᐅᓕᖓᓂᖕᒋ ᐊᒻᒪᓗ ᒪᖅᑰᒃ ᐊᐅᒃᓂᑯᔪᑦ ᐃᓕᑕᖅᓇᖅᓯᓯᒪᓪᓗᑎᒃ. ᓄᓇᒥ ᐋᖅᑭᒍᑎᓪᓕᐊᔪ ᐊᒻᒪᓗ ᐅᔭᖅᑲᑦ ᐃᓂᓕᐅᖅᓯᒪᔪᖅᑲᖅᓂᖕᒋᑦᑎᒍᑦ ᓄᐅᑕᐅᔪᓐᓇᖅᑐᑦ ᐊᔾᔨᒌᓐᓂᑰᑕᐅᖕᒪᑕ ᐃᒻᒥᖕᓄᑦ ᐊᒻᒪᓗ ᓄᐊᓯᒪᔪ ᑎᑎᕋᖅᑕᐅᓚᐅᖅᓯᒪᔪᓂ ᑕᒪᐃᓐᓂ ᖁᑭᖅᑖᓗᖕᒥ ᐊᒻᒪᓗ ᐊᖕᒐᕙ ᑯᐯᒃ ᑕᕐᖃᖕᒐᓂ, ᐊᒻᒪᓗ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᑦ ᖅᑲᓅᑎᒋᖕᒪᖕᒑᑕ, ᐊᒻᒪᓗ ᐱᐅᓯᕚᓪᓕᕈᑎᒋᓗᒋᑦ, ᒫᓐᓇᐅᔪᖅ ᐱᑕᖅᑲᖅᑐᓂ ᐊᕙᒃᑐᖅᓯᒪᔪᓂ ᓄᓇᒥ ᖅᑲᓕᓈᓕᑦ.

ᐱᓪᓗᒍ ᓄᓇᓐᖑᐊᖅ

ᑭᓱᑐᐃᓐᓇᒥᒃ ᖃᐅᔨᒪᑎᑦᑎᔾᔪᑎᑦ

ᑎᑎᕋᖅᑐᑦ: ᐃᒻ.ᐊ. ᓯᑦ-ᐋᖕ, ᐃᓐ.ᐃᒻ. ᐅᓚᐃᓄ, H.ᐃᒻ. ᓯᑏᓐᑲᑉ, ᐊᒻᒪᓗ ᓲ. ᒋᐅᐳᑦ

ᐅᔭᕐᑲᓂᒃ ᖃᐅᔨᓴᖅᑐᑦ ᓄᓇᓕᕆᔩᑦ ᐃᒻ.ᐊ. ᓯᑦ-ᐋᖕ, ᐃᓐ. ᐃᒻ. ᐅᓚᐃᓄ, ᑏ. ᓴᑦᕙᒃ, ᑎ. ᓕᑲᐃᓐ, ᓄᓇᓐᖑᐊᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ; H. ᐃᒻ. ᓯᑏᑲᑉ, ᐊ. Hᐃᓇᓂᒃ, H. ᐃᔨᕋᖅ, ᑎ. ᒪᐃᑦ, ᑲᓇᑕ-ᓄᓇᕘᑦ ᓄᓇᓐᖑᐊᓕᕆᔨᒃᑯᑦ ᑎᑎᕋᕝᕕᖓ; ᑎ. ᓯᑭᑉᑕᓐ, ᐃᓕᓐᓂᐊᕐᕕᒃᔪᐊᖓ ᐋᑐᕚ; ᐃ. ᐱᔨᐅ, ᐃ. ᒪᑲᐃ, ᐃᓄᓕᕆᔨᑐᕐᑲᒃᑯᑦ ᑲᓇᑕᒥ, 2014

ᓄᓇᒥᒃ ᖃᐅᓕᓇᓱᐊᕐᓂᖅ ᑐᑭᓕᐅᓇᔪᖅ ᐊᒻᒪᓗ ᖃᐅᔨᒪᔾᔪᑎᒃᓴᓕᐅᖅᑐᖅ ᐃᒻ. ᐊ. ᓯᑦ-ᐋᖕ, 2014

ᐅᔭᕋᖕᒥᑦ ᒪᓕᑦᑎᐊᖅᑐᑦ ᐱᓕᕆᐊᖑᔪᖅ ᐅᔭᕋᓗᒡᔪᖕᓂᒃ ᖃᐅᔨᕈᑎᑖᖑᓯᒪᔪᓂ ᐋᕐᑭᒃᓯᒪᔪᓂᒃ, ᐆᑕ ᐋᕐᑭᒃᓯᒪᔪᑦ 2.2

ᓄᓇᓐᖑᐊᓕᐅᕐᑎ ᓯ. ᒋᐅᐳᑦ, ᐋ. ᐱᐅᓐᕙᐊᔨ, ᓕ. ᐅᑖᐱᓐᓴᓐ, ᓯ. ᓴᓪᓗᕙᓂᖅ, ᔨ. ᐳᓗ, ᐊᒻᒪᓗ ᐃ. ᒍᓕᓐ

ᑎᑎᕋᖅᑕᖏ ᓄᓇᓐᖑᐊᖅ ᓯ. ᒋᐅᐳᑦ ᐊᒻᒪᓗ ᐃᓐ. ᑯᑎᐋ

ᐅᓇ ᓄᓇᓐᖑᐊᓕᐅᖅᑐ ᓄᓇᒥᒃ ᐆᒪᕐᑯᑎᓕᓇᓂᕐᒧᑦ ᐊᒻᒪᓗ ᐅᔭᖅᓂᐊᖅᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᕿᑭᖅᑖᓗᖕᒥ ᓯᕗᓕᐅᖅᑕᐅᕙᖅ ᓄᓇᓐᖑᓕᐊᓕᐅᖅᑎᒃᑯᑦ ᑲᓇᑕᒥ ᐃᑲᔪᖅᑎᖅᑲᖅᖢᑎᒃ ᑲᓇᑕ-ᓄᓇᕘᑦ ᓄᓇᖑᐊᓕᐅᕝᕕᖓᑦ ᑎᑎᕋᕝᕙᒃ, ᐃᓄᓕᕆᔨᑐᕐᑲᒃᑯᑦ, ᓄᓇᕘᒻᒥ ᐅᑭᐅᖅᑕᖅᑐᒧᑦ ᓯᓚᖅᑐᖅᓴᕝᕕᖓ, ᐃᓕᓐᓂᐊᕐᕕᒃᐊᖓ ᐋᑐᕚ ᐊᒻᒪᓗ ᑑᑕᓐ ᐃᓕᓐᓂᐊᕐᕕᒃᔪᐊᖓ.

ᖃᓄᐃᓕᐅᕆᐊᖃᖅᑐᓄᑦ ᐃᑲᔪᖅᑎᑦ ᑐᓂᔭᐅᓯᒪᔪᑦ ᐊᐅᒍᓐᓇᓐᖏᑦᑐᓕᕆᔪᓂ ᐱᓕᕆᑎᑦᑎᔾᔪᑕᐅᔪᖅ ᐃᓚᒋᓪᓗᒍ ᑎᓕᔭᐅᓯᒪᓂᕐᒥᖕᓄᑦ ᖃᐅᔨᒪᔭᐅᑦᑎᐊᓕᕐᑯᓪᓗᒍ ᖃᐅᔨᓴᐃᓂᒻᒪᕈᑦ ᖃᐅᔨᓴᖅᑕᖕ ᑕᐃᑲᓂ ᑲᓇᑕᐅᑉ ᐅᑭᐅᖅᑕᖅᑐᐊᓂ. ᐊᐅᒍᓐᓇᓐᖏᑦᑐᓕᕆᔪᑦ ᐱᓕᕆᑎᑦᑎᔾᔪᑕᐅᔪᖅ 31014

ᓄᓇᖑᐊᖅ ᑎᑎᕋᖅᑕᐅᔪᑦ ᓇᒧᑐᐃᓐᓇᖕᒪᔪᑦ, ᑭᒃᓕᓕᐅᕐᓯᒪᔪᖅ 19. ᓄᐊᑦ ᐊᒥᐅᓕᒃ ᓄᓇᖑᐊᖕᒪ 1983

ᓄᓇᖑᐊᑦ ᐊᖏᓂᕐᑲᕐᑐᑦ 1:250 000 ᓄᓇᒥᐅᑕᓕᕆᔨᒃᑯᓐᓂᑦ ᑲᓇᑕ, ᓄᑕᖑᓇᐊᕐᓯᒪᐅᕐᑐᑦ. ᐱᕐᑐᓂᖕᒪ ᒥᑕ ᑕᓇᐅᑦ ᑭᖕᓕᖕᒪᓂᑦ ᐅᓕᑦᑕᕐᓂᖕᒪᑕ

ᓂᐱᖅᑲᖅᓇᖕᒪ ᓯᕙᖕᒪᓂᖕᒪ 2015, 27º57'W, ᒥᑭᒃᓕᕚᓪᓕᐊᖕᒪᔪᖅ 22.8' ᐊᕋᒍᑕᒪᑦ. ᖃᐅᔨᓴᕐᑕᐅᓂᖕᒋᑦ ᐊᔾᔨᒋᖕᒋᑦᑐᑦ 27º19'W ᓂᒋᐊᓂᑦ ᐊᑭᓐᓇᖕᒪᓂᑦ ᑎᓇᕐᑯᐊᓂᑦ tᐅᕗᖕᒪ 28º31'W ᐊᑭᓐᓇᖕᒪᓂ ᓂᒋᐊᓂ ᑲᓇᓇᖕᒪᓂ ᓄᓇᖑᐊᒃᑯᑦ.

ᑖᓐᓇ ᓄᓇᖑᐊᖅ ᐊᑐᕐᑕᐅᔭᓇᐊᕐᑲᖕᒋᑦᑐᖅ ᓇᒧᖕᒪᐅᓂᐊᕐᓗᓂ ᑕᑎᒋᓇᓱᒃᓗᒍ.

ᐊᑎᖓ ᐊᔾᔨᓕᐅᖅᓯᒪᔪᖅ: ᐱᓇᖕᓇᖓ Grinnell Glacier ᑕᐃᑲᓂ ᒍᐊᑦ ᐸᐃ, ᐅᐊᖕᓇᖓᓂ ᓯᒃᔭᖓᓂ ᑭᓐᖓᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ. ᐅᔭᕋᓱᒡᔪᐃᑦ ᓄᓇᓕᕆᔭᐅᔪᑦ ᖃᐅᔨᓴᖅᑕᐅᔪᑦ ᖃᖃᑦ ᐅᔭᖃᓂᒃ ᐊᒻᒪᓗ ᐃᓈᑭᐃᑦ ᐅᔭᖃᑦ (unit Pmo). ᐃᔾᔪᑎᒋᔪᑦ ᑕᑯᓪᓗᒋ 3 ᑭᓚᒦᑕ. ᑕᑯᓪᓗᒍ ᐅᐊᖕᓇᖓ ᑲᓇᖕᓇᖓᓄ. ᐊᔾᔨᓕᐊᖓ ᐃᒻ.ᐊ. ᓯᑦ-ᐋᖕ. 2014-225

ᓄᓇᓕᕆᔨᒃᑯᑦ ᑲᓇᑕᒥ ᑐᖓᓴᐃᕗᑦ ᐊᕿᒋᐊᖃᕐᑐᖃᕈᓂ ᐅᕙᓗᓐᓂᑦ ᐃᓚᔭᐅᔪᒪᒍᓂ ᐊᑐᖃᑦᑕᕐᑐᓄᑦ.

ᖃᐅᔨᓴᕈᑎᑖᖅ ᐃᓚᖃᕈᓐᓇᖅᑐᖅ ᖄᖓᒍᑦ ᑕᑯᔭᐅᓯᒪᔪᓂᒃ ᑭᓯᐊᓂ ᓴᕿᔮᓐᖏᑦᑐᑦ ᐅᕙᓂ ᓄᓈᖑᐊᒥ.
ᑕᑯᓗᒍ ᑎᑎᕋᖅᓯᒪᔪᖏᑦ ᐃᓚᓕᐅᑎᓯᒪᔪᑦ ᑖᕙᓂ ᖃᐅᔾᔭᐅᓯᒪᔪᓂ.

ᑖᓇ ᓴᕿᑕᐅᔪᖅ ᑎᑎᕋᕐᓯᒪᔪᑦ ᑕᑯᔭᐅᔪᓐᓇᕐᑐᑦ ᖃᕋᓴᐅᔭᒃᑯᑦ ᐅᕗᖓ GEOSCAN (http://geoscan.nrcan.gc.ca/)
ᐊᒻᒪ ᑲᓇᑕᐅᑉ-ᓄᓇᕘᑉᓗ ᐅᔭᖅᑲᓂᒃ ᖃᐅᔨᓴᖅᑎᖏᑦ (http://cngo.ca/)

ᐱᒋᐊᓕᕌᖅᑐᓂᓂᒃ ᐅᖃᓖᒪᓕᐊᑦ ᐅᑯᓂᖓ ᐅᑯᐊ ᐅᖃᓖᒪᓕᐊᖑᔪᑦ ᖃᐅᔨᓴᐃᓂᒻᒪᕆᒃᑯᑦ ᐋᕿᒋᐊᖅᓯᒪᓐᖏᑦᑐᑦ.

ᓄᓈᖑᐊᕐᒥᒃ ᓴᕿᑎᑦᑎᔪᓐᓇᖅᑐᑦ ᑐᕐᑯᖅᓯᒪᔪᑦ

ᐅᓇ ᓴᕿᑎᑕᐅᓯᒪᔪᖅ ᓄᓈᖑᐊᖅ ᖃᕆᓴᐅᔭᒃᑯᑦ ᐊᓯᑦᔨᕈᓐᓇᓐᖏᑐᒃᓴᔭᐅᓪᓗᓂ, ᐊᒻᒪᓗ ᐃᓗᓕᖅᑲᖅᑐᖅ ᓄᓇᒥ ᖃᐅᔨᓇᓱᐊᕈᑕᐅᔪᑦ ᓄᓇᓕᕆᔾᔪᑕᐅᔪᑦ ᐱᔾᔪᑎᒋᑦᑎᐊᖅᓘᒍ ᑕᐃᑲᓂ ᐅᖃᓕᒫᒐᑰᕈᓐᓴᕐᓂᐊᕐᒪᑦ ᐳᖅᑐᓂᖓᑦᑎᒍᑦ.

ᐱᓪᓗᒍ ᓄᓇᒥᒃ ᖃᐅᔨᓴᕐᓂᖅ ᓄᓇᓕᕆᓂᖅ

ᓇᓗᓇᐃᔭᑦᑎᐊᖅᓯᒪᔪᑦ ᖃᐅᔨᒪᑎᑦᑎᔾᔪᑎᒃᓴᑦ

ᐃᒪᓐᓇ ᐅᖃᓖᕐᓗᒍ ᓄᓇᒥᒃ ᓄᓈᖑᐊᓕᐅᖅᓯᒪᔪᖅ

ᐅᓇ ᑐᑭᓕᐅᕈᑎᒋᕙᑦᓕᐊᔭᖓᓄᑦ ᓄᓈᖑᐊᓕᐊᓇᓪᓗᒍ ᕿᓐᖓᐃᑦ (ᕿᑭᖅᑖᓗᒃ) ᑕᐃᑲᓂ ᐊᐅᔭᖓᓂ 2014 ᐱᐅᓯᕚᑦᓕᕈᒪᓪᓗᒍ ᓄᓇᒥᒃ ᖃᐅᔨᒪᓂᖓ ᐊᒻᒪᓗ ᑎᑎᕋᖅᓯᒪᔪ ᑮᓇᐅᔭᓕᐅᕓᐅᔪᓐᓇᖅᑐᑦ ᐃᖃᓗᐃᑦ ᓄᓇᖓᓂ. ᓄᓇᒥᕐ ᓄᓈᖑᐊᓕᐅᖅᓯᒪᔪᑦ ᑕᑯᑎᑦᑎᓯᒪᔪᑦ ᓇᓃᓐᓂᖏᓐᓂᒃ ᐅᔭᖃᓂᒃ ᖃᐅᔨᓴᖅᓯᒪᔪ, ᐃᓚᒋᔭᐅᓪᓗᑎᒃ ᐊᔾᔨᒌᖏᑦᑐᑦ ᐅᔭᖃᑦ ᐊᒻᒪᓗ ᐅᔭᖃᑦ ᐃᒪᕐᒥᒃ ᒪᓕᒃᑯᑎᒃ ᑭᒡᓕᓕᐅᖅᒥᒪᔪᑦ. ᑕᐃᒪᓐᓇᐅᒐᓗᐊᕐᑎᓪᓗᒍ ᐅᔭᖃᓂᖅ ᖃᐅᔨᓴᐃᓂᖅ ᓇᓂᑐᐃᓐᓇᖅ ᓄᓇᓂ ᐊᔾᔨᒌᖏᑑᑕᐅᔪᑦ, ᑕᒪᕐᒥᒃ ᓄᓇᒥ ᐅᔭᕋᓕᕆᓂᖅ ᓄᓇᖏᐊᓕᐅᕐᓂᖅ ᐊᒥᓱᓂᒃ ᑕᑯᑎᑦᑎᔭᕆᐊᖃᖅᓯᒪᓲᖅ: ᑲᓚᖓᓂ ᐊᒻᒪᓗ ᑎᑎᕋᖅᓯᒪᔪᑦ ᑭᒡᒐᖅᑐᖅᑐᑦ ᑭᓲᖓᒪᖔᑦ ᐅᔭᕋᖓ ᖄᖓᓂ ᓇᓂᑐᐃᓐᓇᖅ ᓄᓇᒥ, ᑭᒡᓖᑦ ᑕᑯᑎᑦᑎᔪᑦ ᖃᓄᐱᑑᓂᖏᓐᓂᒃ ᐊᒻᒪᓗ ᑲᑭᖔᕐᓂᖏᓐᓂᒃ ᐊᒃᑐᖅᓯᒪᔭᖏᑦ ᑭᒡᓕᖏ ᐃᒫᓂᑦ ᐅᔭᖃᓂ, ᑎᑎᖅᓯᒪᔫᔭᑦᑎᐊᖅᑐᑦ ᐊᒻᒪᓗ ᑯᑐᒃᓯᒪᔪ ᐊᔾᔨᖑᐊᑦ ᓇᓕᐊᖕᓄᑦ ᖃᓕᕇᓕᖓᖕᒫᖕᒫᑕ ᓴᓂᖅᕙᖓᔪᑦ ᐊᒻᒪᓗ ᓄᓇᖕᒍᐊᑦ ᖃᓄᐃᓕᖓᓚᐅᕆᓯᑐᐊᖏ ᓇᓗᓴᐃᔭᖅᓯᒪᔪᑦ ᑲᓚᖏᑦᑎᒍᑦ ᐊᒻᒪᓗ ᑭᓱᖑᐊᖑᓂᖏᑦᑎᒍᑦ ᐊᑐᖅᑯᒋᑦ.

ᓴᕿᔮᓛᖑᔪᑦ ᓄᓇᐅᑉ ᖃᖓᑕ ᖃᓄᐃᑉᐸᓪᓕᐊᓂᖓ ᓄᓇᖑᐊᑦ ᑲᓛᖃᖅᑕ. ᐊᑐᓂ ᑲᓛᖏᑦ ᐱᓯᒪᔪᑦ ᐊᔾᔨᒌᖕᖏᑦᑐᓂᒃ ᓄᓇᒥᒃ ᖃᐅᔨᓇᓱᐊᕐᓂᖅ ᓄᓇᓕᕆᓂᖅ. ᐅᑯᐊ ᓄᓇᓕᕆᓂᑦ ᑭᓱᖃᖅᑕ ᓲᕐᓗ ᖃᓄᕆᑑᓂᖏᑦ ᐅᔭᖃᑦ ᐊᒻᒪᓗ ᐊᕐᕌᒍᖏᑦ. ᓄᓇᒥᒃ ᖃᐅᔨᓇᓱᐊᕐᓂᖅ ᓄᓇᓕᕆᓂᖅ ᐊᑎᖅᑕᐅᓪᓗᑎᒃ ᐊᒻᒪᓗ ᓇᓗᓇᐃᔭᑦᑎᐊᖅᑕᐅᓪᓗᑎᒃ ᐅᔭᕋᖕᓂᐊᕐᑎᓂᑦ ᐅᑯᐊᓗ ᓄᓇᒥᒃ ᓄᓇᓕᕆᓂᕐᒥᑦ ᓄᓇᖑᐊᓕᐅᖅᑐᑦ, ᒪᓕᒃᓱᒍ ᑕᑯᔭᑎᒃ ᖃᓄᕆᑑᓂᖏᓐᓂᒃ ᐅᔭᖃᑦ ᐊᒻᒪᓗ ᖃᐅᔨᓇᓯᑎᐊᖅᓱᕆᑦ ᐊᕐᕌᒍᖏᓐᓂᒃ ᐅᔭᖃᑦ. ᐊᒻᒪᓗᑦᑕᐅᖅ ᑲᓛᖏᑦ, ᐊᑐᓂ ᐅᔭᖃᓂᒃ ᖃᐅᔮᓴᕐᓂᖅ ᓄᓇᓕᕆᓂᖅ ᐱᓕᕆᐃᖁᑎᖃᖅᓱᑎᒃ ᑎᑎᖃᑦ ᐱᑦᐊᕐᓂᖏᑦᑎᒍᑦ ᓇᓗᓇᐃᒃᑯᓯᖅᓯᖅᓱᒍ ᓄᓇᖑᐊᖅ. ᑕᐃᒪᓗ ᐅᑯᐊ ᑕᖅᓴᐃᑦ ᑲᑎᖓᐅᖅᑐᑦ ᐱᕆᐊᕐᓂᖓ ᑎᙱᑫᐅᑉ ᒪᓕᒃᓱᒍ ᐱᖃᑖ ᑎᑎᕋᖓ ᒥᑭᓐᓂᖅᓴᐅᓪᓗᓂ. ᐅᑯᐊ ᓯᕗᓪᓕᖅ ᐳᑦᑐᓂᖅᓴᐅᔪᖅ ᑎᑎᕋᖅ ᐱᓯᒪᔪᖅ ᐊᕐᕌᒍᐊᓂᒃ ᐅᔭᖃᑦ ᖃᐅᔨᓴᖅᑕᐅᔪᑦ. ᐅᔭᕋᖕᓂᐊᕐᑎᑦ ᐊᕕᒃᑐᖅᓱᕆᑦ ᐃᒪᑲᓚᓂᑕᐅᓂᖏᑦᑎᒍᑦ ᓄᓇᕐᔪᐊᖅ ᐱᕆᐊᓕᓵᖅᑎᓪᓗᒍ. ᑕᒪᕐᒥᒃ ᑕᖅᓴᖏᑦ ᑎᑎᖃᑦ ᐱᕆᐊᕐᕕᖃᖅᑐᖅ ᐳᖅᑐᓂᖅᓴᐅᔪᓂᒃ ᑭᒡᒐᖅᑐᖅᓱᒍ ᖃᖓᓕᓴᐅᓂᖓ ᐃᒪᑲᓪᓚᒃ: ᓲᕐᓗ ᐆᒃᑑᑎᑐᓗ P (ᓄᓇᕐᔪᐊᖅ ᐱᕆᐊᓕᓵᕐᓂᖓᓂᒃ - 2.58 ᒥᓕᐊᓐ ᑎᑭᓪᓗᒍ 1600 ᒥᓕᐊᓐ ᐊᕐᕌᒍᑦ ᐊᓂᒍᖅᑐᑦ), N (ᐃᒪᑲᓪᓚᒪᓇᐋᓗᒃ - 1000 ᑎᑭᓪᓗᒍ 541 ᒥᓕᐊᓐ ᐊᕐᕌᒍᑦ ᐊᓂᒍᖅᑐᑦ), ᐅᒡᓚᔫᓐᓃᑦ Q (ᐃᒪᑲᓚᐅᓗᐊᓐᖏᑦᑐᖅ - 2.58 ᒥᓕᐊᓐ ᐊᕐᕌᒍᑦ ᐊᓂᒍᖅᑐᑦ ᑎᑭᓪᓗᒍ ᐅᐸᓗᒥᒧᑦ). Tᐅᑯᐊᐊᑖᓂ ᑎᑎᕋᖅᓯᒪᔪᑦ ᐊᑎᖏᑦᑎᒍᑦ, ᐊᑎᖃᕈᓂ. ᑎᕋᕋᓛᖏᑦ ᓇᓗᓇᐃᕈᑎᕆᓯᒪᔪᑦ ᖃᓄᐃᑑᓂᖓᓂ ᐅᔭᕋᖅ, ᑕᐃᒪᓗ ᐊᑎᖃᓐᖏᒃᑯᓂ. ᐊᑎᖓ ᐅᔭᕋᖅ ᕿᑭᖅᑖᓗᖕᒥ ᑕᐃᔭᐅᔪᖅ “ᓇᓴᕐᔪᐊᖅ” ᐊᑎᖅᑕᐅᓯᒪᔾᔪᑖ ᐊᔾᔨᑰᑦ ᐳᑐᓚᓛᓖᑦ ᐅᔭᖃᑦ ᑯᐊᐃᒃ ᑕᕋᖏᑦ ᐊᒻᒪᓗ ᖃᓂᕈᔭᖓᓂ ᕿᒻᒥᕈᑦ. ᐃᖃᖓᓂ ᐅᔭᖃᑦ, ᐊᓂᕈ̇ᔭᓂᑦᑕᐅᖅ ᕿᒻᒥᕈᑦ, ᐊᑎᖃᖅᑐᑦ ᕿᒻᒥᕈᒥ ᓴᓇᔨᓂ. ᑕᐃᒪᓗ ᓄᓇᕐᔪᐊᖅ ᐱᕆᐊᖓᓂ ᕿᒻᒥᕈᒥ ᕿᓪᓕᖅᑐᓕᒃ ᐅᔭᕋᖅ PLHq ᓄᓇᖑᐊᒥ ᓇᓗᓇᐃᒃᑯᑕᕆᓗᒍ ᑭᒻᒥᕈᒻᒥ ᕿᓪᓕᖅᑕᓂᒃ ᐅᔭᕋᒃᑕᓕᒃ (ᑕᐃᒪᖓᓂ ᓄᓇᕐᔪᐊᖅ ᐱᕆᐊᓚᐅᕐᒪᑦ), ᑕᐃᒪᓗ ᐃᒪᑲᓪᓚᒻᒪᓇᐊᓗᒃ ᐳᑐᓚᓛᓕᑦ ᐅᔭᖃᑦ ᐊᔾᔨᖑᐊᖏ ᑎᑎᖃ ᐱᓪᓗᒍ ᐳᑐᖃᐅᖅᑐᓂᒃ ᐅᔭᖃᓕᒃ ᑕᐃᒪᖓᓂ ᐃᒪᑲᓪᓚᒻᒪᓇᐊᓗᒃ. ᑕᑯᔪᓐᓇᖅᑕᑎᑦ ᐆᒃᑑᑎᑦ ᐊᔾᔨᒌᖕᖏᑦᑐᓄᑦ ᐅᔭᖃᓄᑦ ᓇᓂᔭᐅᓯᒪᔪᓄᑦ ᑕᐃᑲᓂ ᕿᓐᖓᐃᑦ ᐊᔾᔨᖑᐊᖃᖅᓱᑎᒃ ᐅᓚᓂ ᓄᓇᖑᐊᒥ.

ᐅᑯᐊ ᓄᓇᖓ ᒪᕿᒃ ᐊᔾᔨᒌᖕᖏᑦᑐᑦ ᓄᓇᒥᒃ ᖃᐅᔨᓇᓱᐊᕐᕕᑦ ᓴᓂᓕᓅᑦ ᓇᓂᔭᐅᓯᒪᕗᑦ ᐊᑐᓂ ᐊᑕᔪᑦ ᐊᑎᖃᕐᓂᖏᓐᓂᒃ, ᐊᒻᒪᓗ ᑕᒪᓐᓇ ᐱᓯᒪᔪᖅ ᑭᒡᒐᖅᑐᖅᑐᖅ ᐊᔾᔨᒌᖕᖏᑦᑎᓂᒃ ᑭᒡᓕᖏᓂ ᐅᔭᕋᓕᕆᓂᕐᒥ ᓄᓇᓕᕆᓂᕐᒥ ᓄᓇᖑᐊᑦ. ᑕᐃᑲᓂᓗ ᐊᔾᔨᒌᖕᖏᑦᑐᑦ ᓄᓇᒥᐅᑕᕐᓂᑦ ᓅᑕᐅᒍᑎᒃ ᐊᓯᐊᓄᑦ ᓴᓂᓕᖃᓕᕐᓗᓂ ᐊᓯᐊᓂᒃ ᐋᕿᑎᐊᓚᐅᖅᑎᓪᓕᑦ ᐃᓕᖓᓕᓚᐅᖅᑎᓪᓗᑎᑦ, ᑲᑎᓐᓂᖓ ᐱᔾᔪᑎᖃᖅᓱᑎᒃ ᑲᑎᓐᓂᒎᕙᑦ. ᐊᓯᐊᑦᑕᐅᖅ ᑭᒡᓕᐊ ᓴᕿᔮᖅᑐᖅ ᑕᐃᓐᓂᐸᓗᒃ ᓄᓇᒥᒃ ᓄᓇᖑᐊᓕᐅᖅᓯᒪᔪᓂ ᐃᓗᓯᒪᓂᕐᑯ̇ᔭᖅᑐᑦ. ᐊᒻᒪᓗᑦᑕᐅᖅ, ᓅᑕᐅᓂᑰᒍᑎᒃ, ᓄᓇᒥᐅᑕᓕᕆᓂᖓ ᓯᒡᒋᖅᓯᒪᓃᑦ ᐊᒻᒪᓗ ᖃᑎᖕᓂᖅᑕᖅᓱᑎᒃ ᑕᒪᒧᖓ ᐃᒍᓯᒪᔭᒥᖕᓄᑦ. ᑭᒡᓕᖓ ᒪᓕᒃᑐᖅ ᑎᑎᖅᓯᒪᓂᖓᓂ ᐅᒡᓚᔫᓐᓃᑦ ᐱᓇᓯᒪᓂᖓ ᐊᑎᖅᑕᖅᑐᖅ ᐃᒪᓯᒪᓂᑯᐊᓂᑦ. ᑕᐃᒪᖓᓂ ᐊᑕᐅᔪᑦ ᑕᓕᓯᒪᓃᑦ ᐃᔾᔪᕐᒧᑦ, ᐱᐳᖅᑐᓄᑦ, ᐅᒡᓚᔫᓐᓃᑦ ᑕᓯᕐᓄᑦ. ᐅᑯᐊ ᓄᓇᖏ ᐊᒃᑐᖅᑕᐅᓂᑯᕕᓂᐅᓂᖏᑦ ᑭᒡᓕᖏᑦ ᑕᒡᓚᓃᑦᑎᐊᖅᑐᑦ, ᑕᑯᒃᓴᐅᑎᐊᖅᑐᖅ ᑭᒡᓕᐊ, ᑭᓯᐊᓂᓕ ᓇᓗᓇᐃᖅᑐᖅ ᑭᒡᓕᒃᓴᖃᖅᑐᖅ. ᑭᒡᓕᖏ ᓄᓇᖑᐊᒥ ᐋᕿᑭᐊᐳᓇᕐᒥᔪᑦ ᐊᓯᖏᓐᓂᑦ ᑭᓯᖑᐊᓂᑦ ᑭᒡᓕᓗᐊᖓᓂ (ᑎᓇᕐᑯᓕᑦ ᐱᖓᓱᓂᒃ, ᑎᑦᑎᖅᓯᒪᑐᐃᓐᓇᖅᑐᑦ, ᐱᓯᒡᓯᖑᐊᑦ ᑎᑭᐊᖅᓯᓯᒪᔪᑦ, ᐊᒻᒪᓗ ᐊᓯᖏᑦᑕᐅᖅ) ᑕᒪᓐᓇᓗ ᖃᐅᔨᒪᔪᒪᔭᑦᑎᓂᒃ ᐱᑕᖃᓐᖑᔪᑦ ᐱᓪᓗᒍ ᑭᒡᓕᖓ. ᐅᓇ ᐆᒃᑐᑎᑐᓗ, ᐃᒧᓯᒪᓂᖓ ᐱᖓᓱᓂᒃ ᑎᓇᕐᑯᖅᑐᑦ ᑕᑯᑎᑦᑎᔪᑦ ᑕᒪᓐᓇ ᓴᓂᐊ ᑎᓇᕐᑯᓕᒃ ᓅᑕᐅᓯᒪᔪᖅ ᕐᑯᒧᑦ ᐊᒻᒪᓗ ᑐᓄᐊᓄ ᐃᒧᓯᒪᔪᖅ ᑎᓇᕐᑯᖃᕋᓂ. ᑕᒪᕐᒥᒃ ᐊᔾᔨᒌᖕᖏᑦᑐᑦ ᑭᓯᖑᐊᑦ ᑭᒡᓕᖏᓂ ᐊᔪᖅᓱᕉᔾᔭᔪᑕᐅᔪᑦ ᓄᓇᖑᐊᕐᒦᑐᒥᒃ. ᓴᓐᓂᖓᔮᖅᑐᑦ ᑎᓱᓯᒪᔪᖅ ᑕᑯᒃᓴᐅᖏᔪ ᓄᓇᖑᐊᒥ ᑎᑦᑎᖅᓯᒪᑐᐃᓐᓇᖅᓱᓂ ᐊᒻᒪᓗ ᑯᕕᖑᐊᖅᑐᖅ ᑕᖅᓴᓇᓪᓗᒍ. ᑕᖅᓴᖏᑦ ᐱᖓᓲᓕᖓᔪᑦ: ᑕᕿᔪᖅ, ᓇᐃᑦᑐᖅ ᐊᒻᒪᓗ ᓈᓴᐅᑎ. ᑕᕿᔪᖅ ᑕᐃᔭᐅᓲᖅ

ᑎᑦᑎᑯᑖᖅᓯᒪᔪᖅ, ᐊᒻᒪᓗ ᓴᕿᔮᕐᑎᑦᑎᔪᖅ ᓇᒧᖓᐅᓕᖓᓂᖓᓂ ᑕᒪᓐᓇ ᓱᓕ ᓴᓂᒨᖓᔪᖅ. ᓇᓕᐊᑐᐃᓐᓇᖅ ᖄᖓ ᓇᒧᖓᐅᓕᖓᒍᓂ ᓴᓂᒨᖓᓗᓂ (ᐃᓱᒪᓗᑎᑦ ᐱᓱᒍᓐᓇᖅᑐᑎᑦ ᓴᓂᐊᒍᑦ ᖃᖃᐅᑉ, ᓇᐅᒃᑰᕐᕕᒃᓴᖃᐃᓐᓇᐅᔭᕐᓇᖅᑐᖅ ᖁᒻᒧᑦ ᐅᕝᕙᓘᓐᓃᑦ ᐊᒻᒧᑦ, ᑭᓯᐊᓂᓕ ᓇᓕᖃᓅᓕᖅᓯᒪᔪᖅ). ᑎᑎᑯᑖᒃᓯᒪᔪᖅ ᑕᑯᑎᑦᑎᓯᒪᕗᖅ ᑕᒪᓐᓇ ᓯᕗᓪᓛᖅᑐᖅ ᓄᓇᖓ. ᓇᐃᑦᑐᖅ ᑎᑎᖅᓯᔪᑦ ᐊᑎᖃᖅᑐᑦ ᑯᑐᖕᓂᖕᒋ, ᐊᒻᒪᓗ ᑕᑯᑎᑦᑎᔪᖅ ᖃᓄᖅ ᓄᓇᖓ ᓯᕗᓪᓕᔾᔭᖅᑎᕆᖕᒪᖔᑦ, ᖃᓅᑎᕆᓂᖓᒍᑦ, ᑐᑭᓕᐅᑦᑎᐊᖅᑐᒥᑦ. ᐊᖕᖏᓂᖅᓴᐅᔪᒥᒃ ᓈᓴᐅᑎᖃᕈᓂ, ᑕᐃᒪᓗ ᐳᖅᑐᓂᖅᓴᐅᕗᖅ ᓴᙱᖕᓕᔾᔨᓂᖓ ᓄᓇᒥᑦ. ᑎᑎᑯᑖᒃᓯᒪᔪᖅ ᐊᒻᒪᓗ ᑯᕕᙳᐊᖅᓯᒪᔪᖅ ᐊᔾᔨᙳᐊᑦ ᓇᓗᓇᐃᒃᑯᑕᖕᒋᑦ ᐋᕿᖕᒋᐊᕈᓐᓇᖅᑐᑦ ᑐᑭᓯᓇᖅᓯᑎᑦᑎᐊᑲᓐᓂᕐᓗᒍ ᖃᓄᖅ ᓯᕗᓪᓕᔾᔭᖅᑎᕆᖕᒪᖔᑕ ᑕᒪᐅᓐᓇ ᑭᓪᓕᓕᐅᖅᓯᒪᓂᖕᒋᑦᑎᒍᑦ, ᐊᒻᒪᓗ ᐅᑯᐊ ᐋᕿᒋᐊᕈᑎᔪᑦ ᓇᓗᓇᐃᔭᑦᑎᐊᖅᓯᒪᓗᒋᑦ ᐊᔪᓇᖅᓰᔾᔪᓂ ᓄᓇᖕᖑᐊᒥ.

ᑕᒪᕐᒥᒃ ᓄᓇᒥᒃ ᓄᓇᖕᖑᐊᓕᐅᖅᓯᒪᔪᑦ ᓇᓗᓇᐃᖅᓯᒪᕕᖅᑲᖅᑐᑦ ᑭᑉᐹᓐᑑᑎᓂ ᐊᑎᖃᖅᑐᑦ ᓄᓇᖕᖑᐊᑉ ᐊᔪᓇᖅᓲᓯᕙᖕᒋᑦ ᓇᓗᓇᐃᒃᑯᓯᖅᓯᕙᖕᒋᑦ. ᑕᐃᑲᓂ ᓇᓗᓇᐃᒃᑯᓯᖅᓯᕙᖓᓂ, ᑕᒪᕐᒥᒃ ᑲᓚᐃᑦ ᑕᖅᓴᖕᒋᑦ ᐊᒻᒪᓗ ᑭᓱᖕᒧᐊᑦ ᑕᑯᔭᒃᓴᐅᕗᑦ ᐊᒻᒪᓗ ᑭᓲᖕᒪᖔᑕ ᓇᓗᓇᐃᖅᓯᓯᒪᕕᖕᖓ ᑎᑎᕋᖅᓯᒪᕕᖕᖓ. ᓄᓇᖕᖑᐊᑉ ᑭᓱᖃᕐᓂᖕᒋᓐᓂᒃ ᓇᓗᓇᐃᒃᑯᓯᖅᓯᕙᖕᒋᑦ ᐱᒋᐊᕐᕕᐊᐊᓲᑦ ᓴᕿᑎᓪᓗᒍ ᑲᓚᖓ ᐊᒻᒪᓗ ᑎᑎᕋᖅᑲᖅᓗᒍ ᑕᒪᕐᒥᒃ ᓄᓇᖕᖑᐊᓕᐅᖅᓯᒪᕕᒋᔪᑦ, ᐱᒋᐊᖅᓗᑎᒃ ᖃᓐᖓᓂᑦ ᓄᑲᖅᓴᖅᐹᖓᓂᑦ ᐅᕝᕙᓘᓐᓃᑦ ᐱᒋᐊᓵᕐᓂᑯᕕᓂᕐᓂᑦ, ᑕᒪᒃᑯᐊᓗ ᐊᑎᖏᑦ ᑭᓱᖃᕐᕕᒋᔭᖏ (ᐱᑕᖃᕈᓂ) ᐊᒻᒪᓗ ᓇᐃᑦᑐᒥᒃ ᓇᓗᓇᐃᔭᑦᐊᖅᓗᒍ ᑭᓲᖕᒪᖔᑕ ᖃᓄᓗᑑᖕᒪᖔᑕ ᐅᔭᖃᑦ ᑕᐃᑲᓃᑦᑐᑦ ᐊᒻᒪᓗ ᐊᕐᕌᒍᖏᑦ. ᑎᑎᕋᖅᓯᒪᓕᓂᕐᒪᑕ ᓄᓇᒥ ᑭᓯᒐᓇᖏᑦ, ᑕᒪᕐᒥᒃ ᐊᔾᔨᐅᖅᓴᖅᑐᑦ ᑎᑎᑯᑖᒃᓯᒪᔪᑦ ᓄᓇᖕᖑᐊᒥ ᓇᓗᓇᐃᔭᖅᓯᒪᓪᓗᑎᒃ, ᐊᒻᒪᓗ ᑕᐃᒪ ᑕᒪᕐᒥᒃ ᐊᔾᔨᐅᖅᓴᖅᑐᑦ ᑎᑎᖅᓯᒪᕕᒋᓪᓗᑎᒃ ᒻᐊᒪᓗ ᑭᓱᖕᒧᐊᖅᑲᖅᓗᑎᒃ. ᓄᓇᖕᖑᐊᖅ ᓇᓗᓇᐃᒃᑯᓯᖅᓯᒪᕕᖓ ᐃᓕᖅᑲᓯᐊᖅᒥᔪᖅ ᓇᓗᓇᐃᔭᖅᓯᒪᕕᒥᔪᖅ ᑎᑎᖅᓯᒪᓪᓗᓂ ᐊᓯᖕᒋᓂᑦ ᓄᓇᒥᐅᑕᓂᖅᓯᒪᓂᖕᒋᓐᓂ ᑭᓱᖕᒧᐊᑦ ᐊᑐᖅᑕᐅᑉᐸᑕ ᓄᓇᖕᖑᐊᒥ (ᐃᓂᖕᒋᑦ ᑭᓱᑐᐃᓐᓇᐃᑦ ᐅᔭᖅᑲᓕᕆᓂᕐᒥ ᓇᓂᔭᐅᔪᑦ, ᐃᓂᖕᒋᑦ ᑭᓯᖃᕐᕕᖕᒋᓪᓚᑕ ᐅᔭᖅᑲᓂᐊᓚᒃᓴᖅᑎᐊᕕᖕᒋᓐᓂᒃ, ᐃᓂᖕᒋᑦ ᓱᓕ ᐊᑐᖅᑕᐅᔪᑦ, ᐊᒻᒪᓗ ᓇᓕᐊᑐᐃᓐᓇᖅ ᐊᓯᖕᒋᑦ ᓄᓇᒥ ᑭᓯᔪᑦ ᐱᒪᓇᐅᓚᔭᖅᑐᑦ ᓄᓇᖓᓂ ᓴᕿᔮᖅᑐᒥ ᓄᓇᒥᒃ ᓄᓇᖕᖑᐊᓕᐅᕐᓂᖅᓯᒪᓯᔪᖓᓄᑦ). ᐱᔪᑎᒋᓪᓗᒍ ᑕᒪᓐᓇ ᓄᓇᓕᓐᓂᖓ ᑕᒪᕐᒥᒃ ᓄᓇᖓ ᐊᔾᔨᐅᖕᒋᖅᑐᑕᐅᖕᒪᑦ, ᓄᓇᖕᒧᐊᓕᐊᓐᓂᔭᑦ ᓇᓗᓇᐃᖅᐸᓕᐊᓗᒋᑦ ᐱᓪᒪᓐᓂᐅᕗᖅ ᑐᑭᓯᑦᑎᐊᕐᓂᐊᖅᑐᓂ ᓄᓇᖕᒧᐊᖅ.

ᓄᓇᒥ ᓴᓇᓕᕆᔭᕗᑦ ᐊᒻᒪᓗ ᓄᓇᒥᐅᑕᓕᕆᓂᕐᒥ ᓄᓇᖕᖑᐊᓕᐅᕐᓂᖅ ᑭᓐᖓᓂ (ᕿᑭᖅᑖᓗᒃ) ᓴᕿᑦᑎᓯᒪᔪᑦ ᑭᓯᑕᖃᐅᕐᓂᖕᒋᓐᓂᒃ ᐃᖃᖓᓂ ᐅᔭᖃᑦ (ᑭᒻᒥᕈᑦ ᓴᓇᐹᑦ; ᓇᖕᒧᐊᑦ ᑖᑉᑯᐊᖕᒧᔪᑦ ⱣLHq, ⱣLHc, ⱣLHs, ⱣLHp) ᐅᑯᐊᓗ ᒪᓕᑦᑎᐊᕈᓐᓇᖅᑐᑦ ᐅᔭᖃᒃ ᐋᕿᒃᓯᒪᓂᖕᒋᑦᑎᒍᑦ ᓄᓇᖓᓂ ᑭᒻᒥᕈᑦ. ᐊᖕᒋᔩᑎᑦ ᓂᐱᑦᑕᐅᑎᓛᑦ ᓵᑐᔾᔪᑦ ᑎᑎᕋᖅᑕᐅᓚᐅᖅᑐᑦ ᐊᒻᒪᓗ ᐊᐅᓪᓗᑎᔭᐅᓂᐊᖅᑐᑦ ᐃᓕᑕᐅᑲᓐᓂᖅᓴᓪᓗᑎᒃ (ᓄᓇᖕᒧᐊᖅ ᐃᓂᖕᒋᑦ ⱣLHu, ⱣLHm, ⱣLHd). ᐅᑯᐊ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᔪᓐᓇᖅᑐᑦ ᐱᒻᒪᕆᐅᔪᑦ ᓴᕕᕋᔭᒃᓴᖃᒥᒃ, ᐊᒻᒪᓗ ᐱᑕᖃᕐᓂᖓ ᓇᓗᓇᐃᕈᑎᔪᓐᓇᖅᑐᖅ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᔪᓐᓇᖅᑐᓂᒃ ᓴᕕᕋᔭᒃᓴᓴᒃ. ᑎᓴᒪᑦ ᐅᔭᖃᑦ ᐋᕿᒃᓯᒪᓂᖕᒋᑦ ᐊᒻᒪᓗ ᒪᕐᕉᒃ ᐊᐅᒧᓐᓇᖕᒍᑦᑐᑦ ᐃᓕᑕᕆᔭᐅᓚᐅᖅᑐᑦ. ᑕᒪᒃᑯᐊ ᑕᐃᒪᓐᓇᐃᑑᔪᑦ ᖃᓄᖅ ᑲᑎᖕᖓᓂᖅᑲᖅᑎᕆᖕᒪᖔᑕ 1800 ᒥᓕᐊᓐ ᐊᕐᕌᒍᓂ ᐊᓂᒍᖅᑐᓂ ᐊᒻᒪᓗ ᑎᑎᕋᖅᑕᐅᓕᑕᐃᓐᓇᖅᑐᑦ ᑕᒪᐃᓐᓂ ᕿᑭᖅᑖᓗᖕᒥ ᐊᒻᒪᓗ ᐊᖕᓕᕚ ᑯᐸᐃᒃ ᑕᕐᕋᖓᓂ. ᐅᑯᐊ ᐋᕿᐅᑎᔪᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᑦ ᖃᓅᑎᕆᖕᒪᖔᑕ ᐃᒻᒥᖕᓄᑦ ᐊᒻᒪᓗ ᐱᐅᓯᕚᓪᓕᕐᓗᒍ ᓴᓇᓯᒪᓂᖓ ᓴᕿᔮᓕᕐᑎᑦᓗᒍ ᐃᒻᒪᑲᓪᓚᓂᑕᐅᓂᖕᒋᓐᓂᒃ ᓴᕿᑐᕕᓃᑦ ᓄᓇᕗᒻᒥ.

ᑭᓱᓕᕆᓂᖅᒋᓐᓂᒃ ᑐᑭᓯᓇᖅᓯᑎᑦᑎᔪᑦ

ᐱᒋᐊᕐᓂᖓ

ᐅᑯᐊ ᓄᓇᒥᒃ ᓄᓇᙳᐊᓕᐅᖅᑐᑦ ᐱᓪᓗᒍ ᐆᒪᕐᑯᑎᑦ ᐊᒻᒪᓗ ᐅᔭᕋᒃᑕᕆᐊᒃᓴᐃᑦ ᐱᓕᕆᑎᑦᑎᔾᔪᑕᐅᔪᑦ ᑲᓇᖕᓇᖕᒐᓂ ᕿᓐᖓᐃᑦ ᑕᐃᑲᓂ 2014 (ᓴᕿᔮᖅᑐᖅ 1) ᐃᑲᔫᑎᓂᐊᖅᑐᖅ ᐱᔭᕇᕐᓗᙳ ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᐅᔭᕋᑦᓯᒃᔪᖅᑦ ᓄᓇᙳᐊᓕᐊᙳᓗᑎᒃ ᑕᐅᕙᓇ ᓂᒋᓕᒫᖓ ᐊᕙᖓ ᕿᑭᖅᑖᓗᒃ. ᓄᓇᒥ ᓴᓇᓂᖅ ᓄᓇᐃ ᐊᕙᓗᔭᐅᓯᒪᔪᑦ ᐃᒪᕐᒥᑦ (ᐃᓚᖏ ᓄᓇᙳᐊᓂ 25-G, I, J, K, N, O) ᓱᕗᓕᐅᖅᑕᐅᓯᒪᔪᑦ ᓄᓇᙳᐊᓕᓇᔾᒃᑯᑦ ᑲᓇᑕᒥ ᐃᑲᔪᖅᑎᕐᑲᖅᓱᑎᒃ ᑲᓇᑕ-ᓄᓇᕗᑦ ᓄᓇᙳᐊᓕᓇᔾᒃᑯᑦ ᑎᑎᕋᕐᕕᖓᓂ. ᐊᕕᒃᑐᖅᓯᒪᔪᑦ ᐊᒻᒪᓗ ᑐᕌᖅᑕᐅᔪᑦ ᐅᔭᕋᑦᓯᒃᔪᐃᑦ ᓄᓇᙳᐊᓕᐊᙳᓪᓗᑎᒃ ᐃᓚᐅᓪᓗᑎᒃ ᐃᓄᓕᓇᔾᑐᕐᒃᑯᑦ ᑲᓇᑕᒥ, ᓄᓇᕗᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓱᓚᖅᑐᖅᓴᕐᕕᖓ, ᐃᓕᓐᓂᐊᕐᕕᒃᔪᐊᖅ ᐋᑐᕖ ᐊᒻᒪᓗ ᑳᓕᑖ ᐃᓕᓐᓂᐊᕐᕕᒃᔪᐊᖓ. ᐅᓇ ᓄᓇᙳᐊᖅ ᐱᓯᒪᔪᖅ ᑲᑎᖓᔪᓂᒃ ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᐅᔭᕐᑲᓂᒃ ᓄᓇᓕᓇᓂᖅ, ᑐᖖᖓᕕᐅᔪᑦ ᐅᔭᕋᑦᓯᒃᔪᐃᑦ ᖃᓕᓅᓕᖅᓯᒪᔪᑦ, ᐊᒻᒪᓗ ᐋᕿᒃᓯᒪᓂᖏᑦ ᐃᓚᒐᓚᖏᓪᓗ ᓇᓗᓇᐃᖅᑕᐅᔪᑦ Grinnell Glacier ᑕᐃᑲᓂ ᓄᓇᒥ ᓴᓇᒐᒥᒃ 2014, ᐃᓚᒋᐊᖅᓯᒪᓪᓗᑎᒃ ᐃᑕᕐᓂᑕᓂᑦ ᑕᑯᔭᐅᓯᒪᔪᑦ ᓄᐊᑕᐅᓯᒪᔪᑦ ᓄᓇᙳᐊᓕᓇᔾᒃᑯᑦ ᑲᓇᑕᒥ ᐊᐅᓚᓐᓂᖓᓂ ᐊᒪᕐᔪᐊᖅ 1965-ᒥ (Blackadar, 1967) ᐊᒻᒪᓗ ᓂᒋᐊᓂ ᕿᑎᖅᑖᓗᒃ ᐱᓕᕆᐊᙳᔪᖅ 1995-ᒥᑦ 97-ᒧᑦ (St-Onge et al., 1999a–g).

ᐃᒪᐅᑉ ᐃᖃᖓᓂᕐᒥᐅᑕᕕᓂᖅ ᐊᒻᒪᓗ ᐃᓅᕈᐃᑦ ᒪᓂᕋᐅᓐᖏᑦᑐᕐᔪᐊᑦ ᑭᓐᖓᓂ ᐃᓚᒋᔭᖏᑦ ᐅᐊᖕᓇᖕᓚᑕ ᐱᓇᖕᓇᖕᓚᑕ (ᑯᐸᐃᒃ ᐊᒻᒪᓗ ᓄᓇᕗᑦ) ᐊᑕᔪᑦ ᑕᐅᕗᖕᓚᓕᒫᖅ, ᐆᒪᕐᑯᑎᒃᓴᐅᔪᓐᓇᖅᑐᑦ ᑎᑭᐅᑎᓯᒪᔪᑦ ᐋᕿᑦᑎᐊᖅᓯᒪᓪᓗᑎᐅᒃ ᐅᐊᖕᓇᖕᓚᓂ ᑲᓇᖕᓇᖕᓚᓂᑦ ᑎᑭᓪᓗᒍ ᓂᒋᐊᓄᑦ ᑲᓇᑕ (Hoffman 1988; Lewry and Collerson, 1990), ᐊᒻᒪᓗ ᐃᓚᓯᒪᔪᖅ ᐅᔭᕋᑦᓯᒃᔪᐃᑦ ᖃᓕᓅᓕᖅᓯᒪᔪᑦ ᐊᑕᐅᓯᕐᒧᑦ ᓄᐊᐸᓪᓕᐊᙳᔭᖅᑐᑦ ᐅᓪᕙᕘᓐᓃᑦ ᐱᕈᕐᕕᒋᔭᖕᓚᓂᑦ ᑭᒡᓕᓖᑦ, ᐅᑭᐅᖅᑕᖅᑐᒥᖕᓛᕐᓂᖓ ᐊᑖᓐᓂᖅᓴᐅᔪᖅ ᓄᓇᓕᒫᖓ ᐊᓯᐊᓐ ᓯᐱᐅᓕᔪ ᐊᕕᒃᑐᖅᓯᒪᔪᖕᒋᓐᓂ ᑕᐃᓱᒪᓂᓕᓴᐃᑦ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓚᐅᖅᓯᒪᖕᓚᓂ ᐃᒻᒪᑲᓪᓚᒻᒪᓇᐋᓗᒃ (St-Onge et al., 2006, 2009). ᑯᐸᐃᒃ ᑕᕋᖓ ᐊᒻᒪᓗ ᓂᒋᐊ ᕿᑭᖅᑖᓗᒃ ᓄᓇᖃᖅᑐᑦ ᐱᖓᓱᓂᒃ ᖃᓕᓅᓕᑦ ᐅᔭᖃᑦ (ᓴᕿᔮᖅᑐᖅ 2; St-Onge et al., 2002), ᐅᑯᐊᓗ ᐃᓚᖃᖅᑐᑦ ᐊᑖᓂ ᐃᓅᕈᐃᑦ ᖃᓕᓅᓕᑦ (ᐊᑎᓖᖓᓂᑦ ᐳᖅᑐᖖᓚᓄᑦ ᐋᕿᒃᓯᒪᔪᑦ ᖁᓕᓅᓕᑦ):

- ᐳᖅᑐᓂᖓ 1 — ᐱᓕᐊᓐ ᐊᕐᕌᒍᓂ ᐊᓂᒍᖅᓯᒪᔪᑦ ᐅᔭᖃᑦ ᕿᓪᓕᓚᖑᓛᒃᑐᓖᑦ ᑐᑭᓯᓇᖅᓯᑎᓯᒪᔭᖅᑎᑦ ᐅᑭᐅᖅᑕᖅᑐᒥ ᓄᓇᒋᔭᐅᔪᓂ ᓄᓇᕐᔪᐊᑕ ᓄᓇᖓ ᐊᒻᒪᓗ ᕿᑎᐊᓂ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓚᐅᖅᓯᒪᓂᖓᓂ ᑲᓴᒃᑕᐅᓯᒪᓐᖏᑦᑐᑦ ᒪᓕᑦᑎᐊᖅᑐᑦ ᐳᕕᖕᓂᖅᑑᖅ ᐊᑕᐅᔪᑦ, ᐅᖓᕙ ᐃᓅᕈᐃᑦ (St-Onge et al., 1996);
- ᐳᖅᑐᓂᖓ 2 — ᓯᐅᕋᐃᑦ ᐅᔭᕋᑦᓪᔪᙳᖅᓯᒪᔪᑦ ᖃᓄᓇᑦᑐᑐᐃᓐᓇᓂᒃ ᐊᒻᒪᓗ ᖃᑯᖅᑐᑦ ᑯᑯᕙᓚᖀᒃᑐᑦ ᕿᑎᐊᓂᑦ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓚᐅᕐᒪᑦ ᑐᑭᓯᓇᖅᓯᑎᓯᒪᔪᑦ ᑎᑭᓪᓗᒍ ᓇᖅᓴᕐᔪᐊᖅ (Scott, 1997; St-Onge et al., 2009), ᐅᓪᕙᕘᓐᓃᑦ ᐊᓯᐊᒍᑦ ᓇᓴᕐᔪᐊᖅ ᖀᖓᓄᐊᖅᓯᒪᔪᖅ ᐃᓚᓕᐅᑎᓯᒪᔪᖅ ᐃᓕᑦᑎᐊᖅᓯᒪᖅ ᐃᓗᐊᓂ ᐳᖅᑐᓂᖓᓄ 3 (Corrigan et al., 2009) ᐊᒻᒪᓗ
- ᐳᖅᑐᓂᖓ 3 — ᐅᔭᕋᑦᓪᔪᐃᑦ ᖃᓕᓅᓕᖅᓯᒪᔪᑦ ᑭᒻᒥᕈᑦ ᓴᓇᔪᑦ (Jackson and Taylor, 1972) ᐊᒻᒪᓗ ᐊᒥᓱᑦ ᐃᓐᓅᕈᐃᑦ ᒪᓂᕋᐅᓐᖏᕐᔪᐊᖅᑐᑦ ᑐᑭᓯᓇᖅᓯᑎᑕᐅᔪ ᖄᓇᔭᐅᓂᖓᓂ ᐊᒻᒪᓗ ᕿᓪᓕᓚᖑᓛᒃᑐᑦ ᐊᑖᓃᓪᓗᑎᒃ ᕿᑎᐊᓂᓂ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓚᐅᕐᒪᑦ ᐱᕈᖅᑐᑦ ᓄᐊᐸᓪᓕᐊᙳᔭᖅᓗᑎᒃ ᑕᐃᒪᖓᓂᑐᖄᓗᒃ ᑐᑭᓕᐅᓇᓯᒪᔪᖅ ‘ᕿᓐᖓᐃᑦ ᐃᓛᒃᑰᖓᓚᓛᑐᑦ’ ᐅᖃᖅᑐᖅ St-Onge et al.

(2000). ᖃᓄᕆᑦᑐᑐᐃᓐᓇᐃᑦ ᐅᔭᕋᓱᒃᐹᒍᐃᑦ ᐊᑕᐹᑦ ᐳᖅᑐᐹᒍᐃᑦ ᐅᔭᕋᓱᒡᐹᐃᑦ (Whalen et al., 2010) ᐊᔾᔨᐅᓐᖏᑑᓪᓗᑎᒃ ᑕᒪᐃᓐ ᐳᖅᑐᓕᕇᓂᑦ 3-ᒥ.

ᐅᔭᕋᓱᒡᐹᐃᑦ ᖃᓕᕇᓕᖅᓯᒪᐹᑦ

ᓲᐅᕋᐃᑦ ᐅᔭᕋᓱᒡᐹᖑᖅᓯᒪᐹᑦ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᓂᒃ ᐊᒻᒪᓗ ᖃᑯᖅᑐᑦ ᑯᑯᕚᓚᒃᑐᑦ (units ꟼNm–ꟼNd)

ᑲᓄᕆᑦᑎᑐᐃᓐᓇᐃᑦ ᐊᒥᓱᑦ ᖃᓕᕇᓕᖕᓃᑦᑐᑦ ᐊᐅᖕᓂᑯᓂ ᐅᔭᖃᓂ, ᑕᒪᒃᑯᐊᓗ monzogranite gneiss ᐊᒻᒪᓗ orthopyroxene-bearing monzogranite-granodiorite-tonalite gneiss (unit {Nm), hornblende anorthosite (unit {Na) ᐊᒻᒪᓗ hornblende-clinopyroxene quartz diorite (unit {Nd), ᐱᑎᖃᓕᖃᑦᑕᖅᑐᑦ ᐊᑎᓛᖓᓂ ᓇᐸᐹᑦ ᓴᕿᔮᖅᑐᑦ ᑕᐅᕙᓂ ᐱᓇᖕᓇᖓᓂ ᐃᓚᖓᓂ ᐱᓕᕆᐊᖑᐹᓂ ᓄᓇᒥ (ᓴᕿᔮᖅᑐᖅ 1). ᐅᑯᐊ ᓇᐸᐹᑦ ᕿᓪᓕᖅᑕᓖ ᐅᔭᖃᑦ ᑕᐅᕗᖓᓕᒫᖓᐹᑦ ᐃᓚᖃᖅᐳᑎᒃ, ᐊᒻᒪᓗ-ᐅᒡᕙᓘᓐᓅᑦ ᐅᔭᕋᑐᐃᓐᓇᖅᑎᑐᑦ ᐊᔾᔨᖃᓴᖏᑦ, ᐊᐅᖕᓂᑰᐹᑦ ᐅᔭᖃᑦ ᐅᐊᖕᓇᖓᓂ ᐊᒻᒪᓗ ᐅᐊᖕᓇᖓᓂᓗ ᑲᓇᖕᓇᖓᓂᓗ ᑭᒻᒥᖠᑦ ᐅᑯᐊ ᒪᓕᑦᑎᐊᖅᑐᑦ ᐊᑕᐅᐹᑦ ᑎᑎᕋᖅᑕᖓ Scott (1997), Wodicka and Scott (1997), Thériault et al. (2001) and St-Onge et al. (2002) ᑖᒃᑯᐊᓗ ᐃᓅᖠᐃᑦ ᒪᓂᕋᐅᓐᖏᑦᑐᕋᐹᑦ ᐃᓚᖏ ᕿᑎᐊᓂᖗᖅᑐᑦ ᓄᓇᕋᐹᖅ ᐱᒋᐊᓚᐅᖅᑎᓪᓗᒍ ᓇᓴᕋᐹᖅ ᑯᐸᐃᒃ ᑕᕋᖕᓚᓂ (ᓴᕿᔮᖅᑐᖅ 2; St-Onge et al., 1992; Dunphy and Ludden, 1998). ᑐᕌᖅᑕᐅᐹᑦ ᓄᓇᒥ ᖃᓄᐃᓕᕙᓪᓕᐊᓯᒪᐹ ᐃᓕᑕᐅᓇᓱᔨᕗᑎᒃ ᐸᕋᒃᑕᐅᓯᒪᐹᖅ ᖃᐅᔨᓴᖅᑕᐅᓂᐊᕋᒪᑦ ᑕᒪᓐᓇ ᑲᑎᖕᓚᓂᖕᓚ ᒪᓕᒃᓯᒪᓂᖕᓚ.

ᓲᐅᕋᐃᑦ ᐅᔭᕋᓱᒡᐹᖑᖅᓯᒪᐹᑦ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᓂᒃ (unit ꟼmdg)

ᓲᐅᕋᐃᑦ ᐅᔭᕋᓱᒡᐹᖑᖅᓯᒪᐹᑦ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᓂᒃ ᕿᓪᓕᖅᓯᓯᒪᐹ ᐊᐅᐸᐹᒃᑑᓕᖅᐳᑎᒃ ᓯᓚᒥᑦ, ᖃᓕᕇᓕᑦᑎᐊᖅᓯᒪᐹᑦ ᐅᔭᖃᑦ ᑭᒡᓕᖃᑦᑎᐊᖅᑐᑦ ᐊᖏᓖᑦᑎᐊᖏᓐᓂ ᓄᓇᒥ ᐊᕙᑖᓂ Pritzler Harbour, Newell Sound ᐊᒻᒪᓗ York Sound (ᓴᕿᔮᖅᑐᖅ 1). ᑕᒪᕐᒥᑦᑎᐊᐸᓗᒃ ᓄᓇᒥᑦ ᓄᐃᓯᒪᐹᑦ ᓲᐅᕋᐃᑦ ᐅᔭᕋᓱᒡᐹᖑᖅᓯᒪᐹᑦ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᓂᒃ ᖃᓕᕇᓕᒃᓯᒪᐹᑦ ᕿᓚᖃᖅᐳᑎᒃ, ᒪᓂᕋᐅᓐᖏᑦᑐᑦ, ᐊᒻᒪᓗ ᐃᖅᐸᖅᓯᒪᒪᒐᓛᒡᐳᑎᒃ ᖃᓕᕇᓕᑦ ᑕᒪᒃᑯᓇᖕᒐᑦ ᕿᕐᓂᑦᑎᐊᖅᑐᑦ ᐅᔭᖃᑦ ᑭᒡᓕᖃᑦᑎᐊᖅᑐᑦ ᑯᑯᕚᓚᖀᑦ ᕿᓕᖅᑕᖃᖅᐳᑎᒃ ᒃ (ᓴᕿᔮᖅᑐᖅ 3). ᓇᒨᑐᐃᓐᓈᖅᓯᒪᐹ ᐅᔭᖃᑦ ᑭᒡᓕᖃᑦᑎᐊᖅᑐᑦ, ᓯᓚᒥᖗᖅᑐᑦ ᐅᔭᖃᓂᑦ ᐊᑖᓄᐊᖅᑎᑦᑕᖅᑐᑦ ᐅᔭᖃᑦ ᑭᒻᒥᖠᒥ ᓴᓇᔨᓂ (ᓇᓗᓇᐃᔭᖅᓯᒪᐹᖅ ᐊᑖᓂ), ᐊᒻᒪᓗ ᕿᕐᓂᖅᑕᑦ ᐊᒻᒪᓗ ᖃᑯᖅᑐᖅ ᖃᓕᕇᓕᖅᑕᖅᓯᒪᐹᑦ ᐅᔭᖃᓂ ᐊᒻᒪᓗ ᐃᓱᒪᓕᖅᓯᓯᒪᑎᑦᑎᐹᓐᓇᖅᑐᑦ ᖃᓕᕇᓕᖕᓚᖕᒪᖕᓚᑕ ᐊᑖᓃᑦᑐᑦ ᑭᒻᒥᖠᑦ ᓴᓇᖃᑎᕉᓂᑦ. ᑕᐃᒪᓐᓇᐅᓚᓗᐊᕐᑎᓪᓗᒍ, ᑕᒪᓐᓇ ᐱᔭᕐᓂᓐᖏᑦᑐᖅ ᖃᐅᔨᓇᓱᒡᓗᒍ ᓄᓇᒥ ᑕᑯᓇᓱᒡᓗᒋᑦ ᖃᓄᖅ ᑲᑎᑦᑐᕕᓂᐅᖕᒪᖕᓚᑕ ᐊᕙᑖᓂᑦ ᕿᓂᖅᑐᖅ ᐊᒻᒪᓗ ᖃᑯᖅᑐᖅ ᖃᓕᕇᓕᖅᑕᖅᓯᒪᐹᑦ ᐅᔭᖃᓂ ᐊᒻᒪᓗ ᐅᔭᖃᑦ ᐊᑖᓂ ᐅᔭᕋᖑᖅᓯᒪᐹᑦ ᓄᓇᕐᕙᖕᓚᓂ ᓴᓇᓯᒪᓂᖕᓚ ᐊᒻᒪᓗ ᑭᓲᓂᖏᑦ ᑕᒪᐅᓇ ᐊᔾᔨᕖᒥᑦ ᓄᓇᖕᓚᓂ ᑕᐃᒪᓐᓇᐅᓕᕐᓂᑯ ᐆᓐᓇᖅᑐᓂᑦ, ᓇᓗᓇᐃᖅᓯᒪᐹᖅ ᖃᓄᑭᐊᖅ ᓴᓇᓯᒪᑲᓐᓂᕐᓂᖕᓚᓂᒃ ᐃᒻᒥᒍᑦ. ᓂᕆᐅᒋᔭᐅᐹᖅ ᑕᒪᓐᓇ ᐋᕿᒃᓯᒪᔾᔭᑎᒃᓴᖅ ᓄᓇᒥ ᖃᓄᐃᓕᕙᓪᓕᐊᓯᒪᐹ ᖃᐅᔨᓇᓱᑦᑎᐊᖅᓗᒍ ᐃᑲᔫᑎᓂᐊᖅᑐᖅ ᐅᖃᐅᓯᕆᓗᒍ ᐱᓕᕆᓗᒍ ᑕᒪᓐᓇ ᐱᔾᔭᑕᐅᐹᖅ.

ᑕᒪᕐᒥᒃ ᐃᓗᓕᒫᖏᑦ ᕿᖅᓂᖅᑐᖅ ᐊᒻᒪᓗ ᖃᑯᖅᑐᖅ ᖃᓕᕇᓕᖅᑕᖅᓯᒪᐹᑦ ᐅᔭᖃᓂ ᓂᑭᑖᖅᓯᒪᐹᑦ ᑕᖃᖏᑦ ᖃᑯᖅᑕᒥᑦ ᐊᐅᐸᐹᒃᑕᒧᑦ ᓲᐅᕋᐃᑦ ᐅᔭᕋᓱᒡᐹᖑᖅᓯᒪᐹᑦ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᓂᒃ ᐊᒻᒪᓗ ᑯᑯᕚᓚᒃᑐᓂᒃ ᐱᐅᓴᖅᓯᒪᑦᑎᐊᓕᖅᑐᑦ ᐊᖕᖏᐹᓪᒪᕆᐋᓘᓪᓗᑎᒃ, ᐊᒻᒪᓗ ᒥᑭᐹᑎᒋᓘᓪᓗᑎᒃ ᐅᖕᓚᑖᓄᑦ ᐊᖏᓂᖅᐸᐹᑦ ᐃᔾᔭᓂᖕᓚ (ᓴᑭᔮᖅᑐᖅ 3). ᐊᔾᔨᑎᐊᐸᓘᖏᑦᑕᐅᖅ ᐅᔭᖃᑦ, ᐅᔭᕋᑦᑎᐊᕙᖃᖅᐳᑎᒃ ᐊᒻᒪᓗ ᖃᓅᑎᕆᐹᖅ ᐋᕿᑦᑎᐊᖅᓯᒪᓐᖏᓂᖃᖅᑐᑦ ᐃᓱᒪᓕᐅᖅᓯᓯᒪᐹᑦ ᐅᑯᐊ ᓲᐅᕋᐃᑦ ᐅᔭᕋᓱᒡᐹᖑᖅᓯᒪᐹᑦ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᓂᒃ ᐊᒻᒪᓗ ᑯᑯᕚᓚᒃᑐᑦ ᑕᖃᖏ ᖃᓄᖅ ᐃᓚᒌᖕᓂᖃᕐᒪᖕᓚᑕ, ᐊᒻᒪᓗ ᐃᒪᖃ

ᑕᐃᒪᓐᓇᐃᑦᑐᖅ ᐅᔭᕋᖕᓂᐊᒐᒃᓴᖃᖅᑐᑦ ᐊᒻᒪᓗ ᐆᓇᖅᓯᓯᒪᓂᑯᐃᑦ ᑲᒻᐸᓚᓐ ᖃᖄᓗᐃᑦ ᓄᕙᓖᑦ (ᑕᑯᒃ ᐊᑖᓂ) ᐅᑯᐊᓗ ᑕᐃᑲᓃᑕᓇᐊᖅᑲᖅᑰᔨᓇᑎᒃ ᐃᓚᒋᔭᐅᓇᑎᒃ ᑕᐃᑲᓃᑦᑐᑦ ᑕᐃᑲᓂ ᐃᓕᓐᓇᓱᒃᑕᑦᑎᓂ ᓄᓇᖕᒐᓂ.

ᑭᒻᒥᕈᒻᒥ ᐱᓕᕆᔭᑦ (units ⱣLHq–ⱣLHw)

ᐅᑯᐊ ᕿᓪᓕᖅᑐᑦ, ᖃᑯᖅᑐᑦ ᑎᓯᐊᑦ, ᖃᓕᕇᓕᖕᒐᐅᖅᑐᑦ, ᐊᒻᒪᓗ ᐅᔭᖅᑲᑦ ᐃᓛᒃᑯᖅᑐᑦ ᒪᓕᑦᑎᐊᖅᑐᑦ ᑭᓯᒥᒃ ᓄᓇᖕᖑᐊᓕᐊᓇᔭᐅᓯᒪᔪᑦ ᑲᓇᖕᓇᖕᒐᓂ ᕿᓐᖓᐃᑦ ᐅᔭᕋᖕᒋᑕ ᐊᔾᔨᐸᓗᖕᒋ ᐃᒪᐅᑉ ᐃᖅᑲᖕᒐᓂᕐᒥᐅᑕᕕᓂᖅ ᒪᓂᖅᑲᒦᑦᑐᑦ ᖃᓕᕇᓕᖅ ᑲᔪᓯᓪᓗᓂ ᑕᐅᕗᖕᒐ ᕿᒻᒥᕈᑦ ᑕᒪᒃᑯᐊᖑᒐᔪᒃᑑᔪᑦ ᐱᑕᖃᖅᑐᑦ ᓄᓇᓕᖕᓂ (St-Onge et al., 1996, 1998; Scott et al., 1997). ᑕᐃᑲᓂ Grinnell Glacier ᓄᓇᓪᖑᐊᖕᒐᓂ ᓄᓇᖕᒐ, ᐊᖕᒋᔭᒥᒃ ᐱᑕᖃᐅᖅᑐᖅ ᐅᔭᕋᑦᑎᐊᕙᐃᑦ ᐅᔭᖅᑲᑦ ᐊᑖᓃᑦᑐᑦ ᑕᐃᕙᓂ ᑲᓇᖕᓇᓂ ᖃᑭᖅᑕᐃᑦ ᐊᒻᒪᓗ ᐃᓐᓈᕈᐃᑦ ᐳᖅᑐᔪᑦ ᕿᓐᖓᓂ, ᑕᑯᔭᒃᓴᐅᔪᑦ ᑭᒻᒥᕈᒥ ᐅᔭᖅᑲᑦ ᐃᓛᒃᑯᖅᑐᑦ ᒪᓕᑦᑎᐊᖅᑐᑦ ᑭᓯᒥᒃ (unit ⱣLHq) ᖃᓕᕇᓕᖅᓯᒪᔭᐅᕆᓪᓗᑎᒃ ᕿᓪᓕᖅᑐᓂᒃ (unit ⱣLHc) ᒥᒃᑑᑎᒻᒪᓇᐋᓗᐃᑦ ᐊᒻᒪᓗ- ᐅᓪᕙᔫᓐᓃᑦ ᐅᔭᖅᑲᑦ ᒥᑭᑑᑦᑎᑦ ᒪᓕᑦᑎᐊᖅᓗᑎᒃ ᑭᓯᒥᒃ (unit ⱣLHp), ᐊᒻᒪᓗ ᐱᑕᖅᑲᕋᔭᖅᓗᑎᒃ ᒥᑭᓐᓂᖅᓴᐅᔪᒥᒃ 5% ᒫᐳᒥᒃ ᖃᑯᖅᑕᓂᒃ ᑎᓯᐊᓂᒃ ᐊᒻᒪᓗ ᐆᔭᐅᔭᐃᑦ, ᓯᐊᖃᐃᑦ, ᑎᓯᐊᑦ ᐅᔭᖅᑲᓂᒃ (unit ⱣLHs).

ᖃᑯᖅᓯᓯᒪᔪᑦ ᕿᓪᓕᖅᑕᓖᑦ ᐱᑕᖃᓕᓃᑦ ᐊᔾᔨᓖᖕᒋᑑᒐᓗᐊᑦ ᑖᒃᑯᐊᑦᑕᐃᓐᓇᐅᓪᓗᑎᒃ ᖃᓕᕇᓕᑦ ᐃᔾᔪᔪᑲᓪᓚᐅᓪᓗᑎᒃ ((ᓴᖅᑮᔭᖅᑐᖅ 4). ᓇᓗᓇᖕᒋᑦᑐᖅ ᐅᓄᖅᑑᔪ ᓇᓂᑐᐃᓐᓇᖅ ᑲᖕᒋᖅᓂ ᓄᓇᖕᖑᐊᑎᒍᑦ ᐅᒻᒍᑦ ᓅᕕᐅᒥ ᐊᒻᒪᓗ ᒥᑐ ᓵᕕᔨ ᖃᑭᖅᑕᓂ (ᓴᖅᑮᔭᖅᑐᖅ 1). ᖃᓕᕇᓕᑦ ᐃᓚᖅᑲᓰᑦ ᑎᑭᓪᓗᒍ ᑕᒪᒃᑯᓂᖕᒐ ᓴᕕᕋᔭᒃᓴᖅᑲᖅᑐᑦ ᑎᑭᓪᓗᒍ ᕿᓪᓕᖅᑐᓖᑦ, ᑕᒪᒃᑯᓂᖕᒐ ᐃᓗᓕᖅᑲᓰᑦ (graphite±garnet±sillimanite) ᐊᒻᒪᓗ ᐊᓕᒎᔭᖑᑲᓐᓂᖅᓯᒪᔪᑦ ᖄᖕᒐᒍᑦ ᐊᓕᒎᔭᖑᑲᓐᓂᖅᓯᒪᔪᑦ ᖄᖕᒐᒍᑦ. ᐃᖅᑲᖕᒐᓃᑐᑐᖅᑲᕕᓂᐅᖕᒪᖕᒑᑕ ᐱᑕᖃᖅᑐᑦ ᓇᑭᑦ ᐃᖅᑲᖕᒐᓂᖕᒑᖅᓂᖅᒪᖕᒑᑕ ᐅᓪᕙᔫᓐᓃᑦ ᖃᓄᓇᑑᑕᐅᓂᖕᒋᑦ ᐃᖅᑲᖕᒐᓂᖕᒑᖅᑐᕕᓂᐅᖕᒪᖕᒑᑕ ᑕᑯᔭᐅᓯᒪᔭᖅᑲᓐᖕᒋᑦᑐᖅ. ᑲᑎᖕᒐᐅᖅᑐᑦ ᐃᓚᐅᖅᓯᒪᔪᑦ ᖃᓕᕇᓕᑦ ᐃᓗᐊᓂ ᖃᓕᕇᓕᖕᒐᐅᖅᑐᑦ ᓯᓐᑕᒦᑕᐅᓪᓗᑎᒃ ᑎᑭᖑᓪᓗᒍ 10 ᐅᖕᒐᑖᓄᑦ ᓯᓐᑕᒦᑕ ᐃᔾᔪᑎᕆᔪᑦ ᐊᒻᒪᓗ ᑕᑯᔭᐅᓯᒪᖕᒥᔪᑦ 10 ᒦᑕ ᑕᐅᕗᖕᒐᐅᓕᖕᒐᑎᕆᔪᖅ. ᓇᓗᓇᐃᑦᑎᐊᖅᓯᒪᔪᑦ ᖃᓄᓇᑑᑕᐅᓂᖕᒋᑦ ᐊᒥᓲᓂᖕᒋᑦᑎᒍᑦ ᕿᓪᓕᖅᑐᑦ, plagioclase, biotite, lilac garnet, sillimanite, rare cordierite ᐊᒻᒪᓗ granitic melt (ᓴᖅᑮᔭᖅᑐᖅ 5). Garnet-sillimanite pelite ᐱᑕᖃᓕᖅᑲᑦᑕᖅᑐᖅ ᓵᑦᑐᑯᓘᓚᐅᖅᓗᓂ ᐃᓗᐊᓄᑦ garnet-biotite semipelite, ᐃᓯᓕᕕᖃᖅᑐᖅ ᐊᑦᑎᖕᓂᖅᓴᐅᔪᒥ ᐃᓗᐊᓂ psammite. ᐅᑯᐊ psammite ᐊᒻᒪᓗ semipelite ᑎᒃᑕᐅᕋᔭᑦᑑᓪᓗᑎᒃ ᐊᒻᒪᓗ ᑕᒫᓃᑦᑐᑦ ᐲᔭᖅᓂᑰᒐᒥᒃ ᐅᔭᖅᑲᓂᑦ graphite, pyrite and chalcopyrite. ᖃᑯᖅᑐᖅ (unit ⱣLHw), ᑕᒪᒃᑭᖅᓯᓯᒪᕕᒋᑦᑎᐊᑲᓴᓪᓗᑎᒃ lilac garnet ᐊᒻᒪᓗ sillimanite ᓇᓂᔭᐅᔪᓐᓇᖅᑐᑦ ᓇᓂᑐᐃᓐᓇᖅ ᑕᒪᑐᒪᖕᒑᖅᓯᒪᔪᖅ ᐊᖕᒋᔪᒥᑦ ᐃᓚᖕᒐᓂᑦ ᐃᓗᐊᓂᑦ siliciclastic ᑲᑎᖕᒐᔪᓂ, ᐱᑕᖃᖅᑐᖅ ᐱᖅᑲᑎᑮᑦᑎᐊᖅᑐᑦ ᑲᑎᖕᒐᑦᑎᐊᖅᑐᑦ ᐅᓪᕙᔫᓐᓃᑦ ᑕᒫᖕᒑᖅᑐᑦ ᒥᑭᓐᓂᖅᓴᐅᓪᓗᑎᒃ 0.5 ᒦᑕ ᐃᔾᔪᓂᖕᒐ (ᓴᖅᑮᔭᖅᑐᖅ 6). ᓄᓇᓕᖕᓂ, ᑕᒪᓐᓇ leucogranite ᓄᓇᐅᑉ ᖄᖕᒐᓃᑦᑐᑦ ᐊᖕᒋᔪᒻᒪᓇᐋᓗᐃᑦ ᑎᒥᓖᑦ ᐊᒥᓯᓂ ᑕᐅᓴᓂᒃ ᒦᑕ ᐃᔾᔪᑎᕆᓪᓗᑎᒃ.

ᖃᑯᖅᑕᑯᑖᓖᑦ ᐅᔭᖅᑲᑦ ᖃᓕᕇᓕᖅᓯᒪᒐᒍᒃᑐᑦ ᐃᓚᖃᖅᓗᑎᒃ ᖃᓄᓇᑦᑐᑐᐃᓐᓇᑦᑎᐊᑦ ᐅᔭᖅᑲᑦ ᑲᑎᖕᒐᔪᑦ ᐊᒻᒪᓗ ᐃᓚᓯᒪᖅᑲᑦᑕᖅᑐᑦ ᒫᐳ ᖃᑯᖅᑕᓂᒃ. ᓄᓇᓕᖕᓂ, ᑕᒪᒃᑯᐊ calcareous strata ᐃᓚᖃᖅᑐᑦ ᖃᓕᕇᓕᖕᓂᒃ ᑕᒪᒃᑯᓂᖕᒐ calcareous grit characterized by abundant 1–2 mm detrital quartz grains (ᓴᖅᑮᔭᖅᑐᖅ 7). ᑕᐃᑲᓂ Grinnell Glacier ᓯᖅᒥᖕᓂ ᓄᓇᖕᖑᐊᖅ, ᑕᒪᖅᒥᑲᓴᒃ calcareous ᐅᔭᖅᑲᑦ ᐊᖕᒋᓗᐊᓐᖕᒋᑦᑐᑦ ᒪᓂᕋᐅᓇᑎᒃ ᐊᒻᒪᓗ ᑕᒫᓃᑦᑐᑦ ᖃᓄᓇᑦᑐᐃᓐᓇᐃᑦ ᖃᓕᕇᓕᑦ ᓇᓗᓇᐃᑦᑎᐊᑲᓐᓂᕈᓐᓇᖅᑐᑦ calcite, forsterite, humite, diopside, tremolite, phlogopite,

spinel, apatite ᐊᒻᒪᓗ rarely wollastonite. ᐊᑐᓃᖅᑐᑦ ᖃᓂᕇᑦ ᐊᖏᓂᓖᑦ ᓯᓐᑕᒦᑕᓂᒃ ᒦᑕᓄᑦ ᐃᔾᔪᓂᖏᑦ ᐊᒻᒪᓗ ᑕᑯᔭᐅᖃᑦᑕᖅᓯᒪᔪᑦᑕᐅᖅ ᑕᑭᔪᒻᒪᕆᐋᓗᐃᑦ. ᓇᓕᒧᕇᖅᑕᓪᓗᑎᒃ ᐃᔾᔪᓂᖓ ᐊᑐᓂ calcareous ᐅᔭᖃᑦ ᐃᒻᒥᖕᓄᑦ ᒪᓕᒃᑲᒥᒃ ᖃᓄᑐᐃᓐᓇᖅ ᐊᙱᑎᑭᖃᑦᑕᖅᑐᑦ ᑎᑲᒦᑕᒥᑦ ᒥᑭᓐᓂᖅᓴᐅᕙᑭᓪᓗᑎᒃ ᑐᖅᓛᓂ 200 ᒦᑕ. ᐊᑐᓃᖅᑐᑦ ᒫᐳ ᐃᓖᓐᓂᒃᑯᑦ ᓇᓂᔭᐅᕙᒃᑐᑦ ᐊᕙᖅᓚᓘᖅᒐᔪᑦ ᑭᓚᒦᑕᔅ ᑕᑭᓪᓗᑎᒃ. ᑕᒪᑐᒥᖓ ᐱᑕᖃᓚᐅᓐᖏᑦᑐᖅ ᐃᖃᖓᓂ.

ᑕᐃᒪᖓᓂᑦ ᒪᓕᑦᑎᐊᖅᑐᑦ ᐊᔾᔨᕆᑦᑎᐊᑦ ᖃᓕᕇᓕᑦ ᐊᖏᓗᐊᕋᑎᒃ ᐃᓚᖏᓪᓗ ᓯᖃᓪᓕᓯᒪᔪᑦ ᓴᕿᕋᔭᒃᓴᖃᖅᑐᑦ ᑕᒪᒃᑯᐊᓗ ᐊᔾᔨᕐᖏᓛᑎᑦ ᑲᑎᖓᔪᑦ ᐅᔭᖃᑦ (units ⱣLHu, ⱣLHm, ⱣLHd) ᐱᑕᖃᐅᖅᑐᑦ ᐃᓗᐊᓂ ᑭᒻᒥᕈᑦ ᐱᓇᖕᓇᖓᓂ Grinnell Glacier ᓯᕐᒦᑦ ᓄᓇᖑᐊᖏᓐᓃᑦᑐᑦ. ᐊᑐᓂᑦ ᐃᓂᖏᑦ ᐊᔾᔨᕐᖏᓇᐸᓗᒃᑐᑦ 10–20 ᐃᔾᔨᑎᒋᓪᓗᑎᒃ, ᑕᐃᒪᓐᓇᐅᒐᓗᐊᕐᑎᓪᓗᒍ ᐃᓚᖏᑦ ᑎᑭᐅᑎᓯᒪᖃᑦᑕᖅᑐᑦ 100 ᒦᑕ ᐃᔾᔨᑎᒋᓪᓗᑎᒃ ᐊᒻᒪᓗ ᑎᑭᐅᑎᓯᒪᓪᓗᑎᒃ ᐊᒥᓱᓄᑦ ᑭᓚᒦᑕ ᑕᑭᑎᒋᓪᓗᑎᒃ. Metagabbroic ᐊᒃᑐᖅᑰᖏᑦ ᐊᒻᒪᓗ ᒪᓕᑦᑎᐊᖅᑰᑎᒃ ᖃᓕᕇᓕᖅᓯᒪᓂᖏᑦ ᒥᑭᔫᑎᑦ ᓯᓐᑕᒦᑕᓂᑦ ᑎᑭᓪᓗᒍ ᒦᑕᓄᑦ ᓄᓇᖑᐊᓕᐊᖑᔪᑦ ᓇᓗᓇᐃᔭᑦᑎᐊᖅᑰᖏᑦ ᖃᓄᓇᑦᑐᑐᐃᓐᓇᐃᑦ ᐅᓄᖅᑑᑕᐅᓂᖏᓪᓗ ᒪᓕᒡᒎᖏᑦ ᑕᒪᒃᑯᐊ linopyroxene, orthopyroxene, hornblende ᐊᒻᒪᓗ plagioclase ᐅᑯᐊ ᓇᐅᑦᓯᐅᒪᑦᑎᐊᖅᑐᑦ ᓴᕆᐸᔭᒃᓴᓂ (ᓴᕿᔮᖅᑐᖅ 8). ᐅᑯᐊ ᒪᓕᑦᑎᐊᖅᑐᑦ ᐊᑕᑦᑎᐊᖅᑐᑐᖃᐃᑦ, ᐃᔾᔪᓪᓗᑎᒃ ᐊᒻᒪᓗ ᓄᕗᕋᖅᑰᑎᒃ ᖃᐅᔨᓇᖅᓯᑎᑦᑎᓯᒪᔫᑦ ᑖᒃᑯᐊ ᓴᕿᕋᔭᒃᓴᖃᕋᒥᒃ ᐅᔭᖃᑦ ᐊᖏᓗᐊᓐᖏᑦᑐᑦ ᐅᑯᒪᐃᑦᑐᑦ. ᐊᒥᓱᑦ ᓴᕿᕋᔭᒃᓴᖃᖓᖏᑦ, ᑕᒪᒃᑯᓂᖓ ᓇᓕᐊᖏᑐᐃᓐᓇᖅ clinopyroxene-orthopyroxene±hornblende metapyroxenite ᐅᓪᓚᓘᓐᓃᑦ olivine-clinopyroxene-orthopyroxene metaperidotite, ᑕᑯᔭᐅᓯᒪᕗᑦ. ᓇᓂᑐᐃᓐᓇᖅ, ᑕᒪᒃᑯᐊ ᓴᕿᕋᔭᒃᓴᖃᖅᑐᑦ ᐅᖁᒪᐃᑦᑐᑦ ᐅᔭᖃᑦ ᖃᓕᕇᓕᑦ ᐊᒥᓱᓂ ᓇᓂᑐᐃᓐᓇᖅ sulphide, ᐃᓚᖏᑦ ᐃᓚᖃᖅᑰᑎᒃ ferricrete, ᑕᒪᒃᑯᐊᓗ ᐃᓚᖃᑦᑐᒃ ᐊᖏᓗᐊᓐᖏᑦᑐᑦ ᒪᓂᕋᐅᓇᑎᒃ ᐅᔭᕋᑐᐃᓐᓇᐃᑦ ᑕᐃᒪᓐᓇᐃᓕᓯᒪᔪᑦ ᓴᕿᕋᔭᒃᓴᒥᑦ oxyhydroxide. ᓇᓗᓇᐃᔭᑦᑎᐊᖅᓯᒪᔪᖅ ᓴᕿᕋᔭᒃᓴᑦ ᐊᒻᒪᓗ ᓴᕿᕋᔭᒃᓴᖃᖅᑐᑦ ᐅᔭᖃᑦ ᑭᓐᖓᓂ ᑐᓂᔭᐅᓂᐊᖅᑐᑦ St-Onge et al. (2015).

ᓯᐅᕋᐃᑦ ᐅᔭᕋᓱᒡᔪᖑᖅᓯᒪᔪᑦ ᖃᓄᓇᑦᑐᑐᐃᓐᓇᓂᒃ ᑎᑭᓪᓗᒍ ᑯᑯᕙᓚᖕᓛᑦ ᐆᓇᖅᓯᓯᒪᓂᑰᔪᑦ
(units Ᵽmo–Ᵽsb)

ᐅᓇ ᑐᙵᔾᔪᑖᑦ ᐆᓇᖅᓯᓯᒪᓂᑯᐃᑦ ᐅᔭᖃᑦ ᓄᓇᖑᐊᓕᐊᖑᓯᒪᔪᑦ ᑲᓇᖕᓇᖓᓂ ᕿᓐᖓᐃᑦ ᐃᓚᖃᖅᑐᖅ ᖃᑰᔭᖅᑐᓂᓪ-ᐊᐅᐸᔪᒃᑐᓄᓪ- ᓯᓚᒧᑦ ᑕᐃᒪᓐᓇᐃᓕᓯᒪᔪᖅ orthopyroxene-biotite±magnetite monzogranite (unit Ᵽmo), biotite-hornblende±magnetite± orthopyroxene monzogranite (unit Ᵽmh), biotite-garnet±orthopyroxene monzogranite (unit {mg) ᐊᒻᒪᓗ ᓯᐅᕋᐃᑦ ᐅᔭᕋᓱᒡᔪᖑᖅᓯᒪᔪᑦ ᖃᓄᓇᑦᑐᑐᐃᓐᓇᓂᒃ ᑎᑭᓪᓗᒍ ᑯᑯᕙᓚᖕᓛᑦ ᐆᓇᖅᓯᓯᒪᓂᑰᔪᑦ (units Ᵽmb, Ᵽsb). ᐊᒥᓲᔪᑦ ᐊᐅᒃᓂᑰᔪᑦ ᐱᑕᖃᐅᓇᓪᓗᑎᒃ ᑖᒃᑯᐊ K-feldspar megacrystic (ᓴᕿᔮᖅᑐᖅ 9), ᑕᐃᒪᓗ ᐊᓯᖏᑦ (units Ᵽmg, Ᵽms) ᐃᓗᓕᖃᖅᑐᑦ ᐊᖏᔪᓂᒃ ᐅᓄᖅᑐᓂᒃ ᐊᕙᓗᔭᐅᓯᒪᔪᖅ siliciclastic ᐊᒻᒪᓗ calcareous ᐅᔭᖃᓂᒃ, ᑐᑭᓯᓇᖅᓯᑦᑎᐊᖅᓯᒪᕗᑦ ᐱᒋᐊᖅᓯᒪᔪᑦ ᑭᒻᒥᕈᒥ. ᐅᓄᖅᑑᔪ ᓴᕿᔮᑦᑎᐊᖅᑐᑦ ᓄᓇᒥ, ᐅᑯᐊ ᐅᔭᕋᓱᔪᐃᑦ monzogranite–diorite orthogneiss ᐊᒻᒪᓗ ᑎᑭᐅᑎᓯᒪᔪᑦ ᐊᑕᔪᑦ ᑭᒻᒥᕈᒻᒧᑦ ᒪᓂᖃᒦᑦᑐᑦ, ᐃᓱᒪᓕᐅᖅᓯᓯᒪᕗᖅ ᑕᒪᒃᑯᐊ ᑕᒫᓃᖓᔭᓐᖑᐊᓐᖏᑦᑐᑦ ᒪᓕᒃᑐᑦ ᐃᓕᕿᒍᓃᖅᑐᑐᖃᐅᓂᖓᓂᑦ ᑖᒃᑯᐊ orthogneiss ᐊᒻᒪᓗ (ᑕᑯᒍᒃ ᐊᑖᓂ). ᐊᙱᕇᑎᑦ ᓯᖃᓕᖏ, ᐊᖏᔪᒻᒪᕆᐋᓗᐃᓪᓗ ᓵᑐᑕᐅᓕᖅᓯᒪᔪᑦ metaplutonic ᐅᔭᖃᓂᑦ ᑕᒫᓃᑦᑐᑦ ᑭᔾᔭᓕᐊᓂ, ᑲᔪᓯᓪᓗᑎᓪᓗ, ᓇᒧᑐᐃᓐᓇᖅ ᐊᕕᒃᑐᖅᓯᒪᔪᓄᑦ ᑕᒪᐅᓇ, ᑎᑭᐅᑎᓯᒪᔪᑦ ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᐊᑖᒍᑦ ᖃᖄᓗᐃᑦ ᓄᕗᓖᑦ ᑕᐃᑲᓂ ᑭᓐᖓᓂ ᐊᒻᒪᓗ ᐅᐊᖕᓇᖓᓂ Hᐊ (ᓴᕿᔮᖅᑐᖅ 2; St-Onge et al., 1999a–g; Machado et al., 2013a, b; Steenkamp and St-Onge, 2014). ᑲᔪᓯᓂᖓ ᐊᐅᒃᓯᒪᓂᑰᔪᑦ ᐅᔭᖃᑦ ᐃᓱᒪᓕᖅᓯᓯᒪᔪᑦ ᐊᒥᓲᔪᑦ Grinnell Glacier ᓯᕐᒥᐊᓂ ᓄᓇᖑᐊᓂ

ᐃᓚᒋᔾᖏᑦᑕᐅᖅ 1.86-1.85 ᐳᖅᑐᓂᖓᑕ ᖃᖃᐃᑦ (Jackson et al., 1990; Wodicka and Scott, 1997; Scott and Wodicka, 1998; Scott, 1999; Whalen et al., 2010). ᓄᓇᒥ ᖃᓄᐃᓕᕗᓪᓕᐊᓯᒪᔪ ᖃᐅᔨᓴᕈᑎᑖᖑᓪᓗᑎᒃ ᑕᒪᐃᓐᓂᑦ ᐊᐅᓐᓂᑯᕐᔪᐊᖃᖅᑐᓂᑦ ᐅᔭᖃᓂᒃ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᓂᒃ ᐱᔭᐅᓪᓗᑎᒃ ᓄᓇᒥ ᖃᐅᓴᖅᑕᐅᓪᓗᑎᒃ ᖃᓄᖅ ᐊᔾᔨᒌᓐᖏᖃᕐᒪᖔᑕ ᐃᓚᒌᖕᒪᖔᑕ.

ᖃᑯᒑᓛᒃᑐᓛᑦ ᓯᐊᕐᓇᐅᓪᓗᑎᒃ ᐅᔭᖃᑦ ᑕᒪᑐᒧᖓ (unit Ᵽd)

ᓵᑐᔮᑦ hornblende-orthopyroxene-clinopyroxene ᖃᑯᒑᓛᒃᑐᓛᑦ ᓯᐊᕐᓇᐅᓪᓗᑎᒃ ᐅᔭᖃᑦ ᑕᒪᑐᒧᖓ (unit Ᵽd), 10–200 ᒦᑕ ᓯᓕᒃᑎᒋᔪᑦ ᐊᒻᒪᓗ ᑎᑭᐅᑎᓯᒪᓪᓗᑎᒃ ᐊᒥᓲᒪᕆᐋᓗᖕᓄᑦ ᑭᓚᓃᑕ ᑕᑭᓂᖏᑦ (ᓴᕿᔮᖅᑐᖅ 10), ᓯᓕᒃᑐᐋᓗᒃ ᑕᒫᖓᑦᑕᐃᓐᓈᖅᑐᖅ ᓄᓇᖓ ᐊᖏᓪᓗᑎᒃ ᓵᑐᑕᐅᓕᖅᓯᒪᔪᑦ ᓴᕿᔮᑦᑎᐊᖅᑐᑦ ᐊᖏᔪᑦ ᓵᑐᑕᐅᓕᖅᓯᒪᔪᑦ ᐊᕙᓗᓕᒫᖓᑦ orthopyroxene-biotite±magnetite monzogranite ᐅᖕᕙᓘᓐᓃᑦ ᐃᓂᖃᖅᑐᑦ ᐱᒋᐊᖅᓯᒪᔪᑦ ᑭᒻᒥᕈᒥᑦ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᑦᑎᐊᑦ ᑲᑎᖓᔪᑦ ᐅᔭᖃᑦ. ᐊᔾᔨᒋᖕᒥᓇᓂᒋ ᑕᐃᒪᓐᓇᐅᓇᑎᒃ ᓴᕏᕋᔭᒃᓴᓵᑦ ᐅᖃᖅᓯᒪᔪᑦ ᖁᓛᓂ, ᑖᒃᑯᐊ ᖃᑯᒑᓛᒃᑐᓛᑦ ᓯᐊᕐᓇᐅᓪᓗᑎᒃ ᐅᔭᖃᑦ ᖃᓕᓅᓕᐅᓇᑎᒃ, ᐊᔾᔨᒋᓐᖏᑦᑎᐊᕆᓪᓗᓂᒋᓪᓗ ᑖᒃᑯᐊᑦ ultramafic ᐅᔭᖃᑦ. ᑖᒃᑯᐊ ᓵᑐᔾᔪᔪ ᐅᓄᖅᑑᓂᖏᓐᓄᑦ ᑕᒫᓃᑦᑐᑦ ᐊᑑᑎᖃᖅᑐᑦ ᓴᕿᔮᑦᑎᐊᓕᑦᑎᑦᑎᔪᓐᓴᒪᑕ ᐃᒨᓯᓴᒪᖏᓐᓂᑦ ᐸᖕᕕᔪᑦ ᑭᐹᓇᑑᑕᖏᓂᖏᑦ ᖃᓄᑦᓗ ᐋᕿᒃᓯᒪᓂᖏᑦ.

ᐅᔭᕋᖅ ᒪᕿᕐᓂᒃ ᐃᓚᓯᒪᔪᖅ (unit Nd)

ᐊᒥᓲᔪᑦ ᐊᐅᒃᓯᒪᓐᖏᑦᑐᑦ ᐅᐊᖕᓇᖓᓂ-ᐱᓇᖕᓇᖓᓄ ᒪᕿᕿᖅᓯᒪᔪᑦ ᐅᔭᖃᑦ ᐅᔭᕋᖅ ᒪᕿᕐᓂᒃ ᐃᓚᓯᒪᔪᖅ (unit Nd) ᐃᓅᖅᓯᒪᔭᖓ ᑕᒪᓇ supracrustal ᐊᒻᒪᓗ metaplutonic ᐅᔭᖃᑦ ᓄᓇᖒᐊᓕᐅᕝᕕᐅᔪᖅ. ᖃᐅᔨᓴᕆᐊᕝᕕᐅᔪᑦ ᐊᔾᔨᒌᓐᖏᑑᑎᑦ ᐃᔾᔪᓂᖏᑦ 10-ᓂᑦ ᓃᑕᑦ ᖃᓂᒋᔮᓂ ᑎᑭᓪᓗᒍ 100 ᒦᑕ ᐊᒻᒪᓗ ᓚᐸᑦᑎᐊᑲᓴᖕᓗᑎᒃ. ᓴᕿᔮᖅᐸᒃᑐᑦ ᑲᔪᕈᖅᓯᒪᓪᓗᑎᒃ ᓯᓚᒧᑦ ᖃᖓ ᐊᒻᒪᓗ ᑐᑭᓯᓇᖅᓯᑎᑕᐅᓯᒪᔪᑦ ᐃᓚᒋᓂᖏᓐᓄᑦ ᐃᒻᒪᑲᓪᓚᒻᒪᕆᐋᓗᒃ ᕗᓛᒃᓚᓐ ᑕᒪᐅᖓᖅᓯᒪᑎᓪᓗᒋᑦ.

ᒫᓇᓕᓴᖅ (unit Q)

ᒫᓇᓕᓴᐃᑦ ᐅᔭᕐᓂᐊᒐᒃᓴᐃᑦ (unit Q) ᑕᒃᑯᐊᖑᔪᑦ ᐅᔭᖃᑦ ᐊᐅᒃᑕᐅᓂᑯᑦ ᖁᐊᖑᐃᓐᓇᐅᔭᖅᑑᓕᖅᑐᒥᑦ, ᑭᓯᐊᓂ ᐊᐅᒃᑐᒥᑦ ᑰᕝᕕᐅᓯᒪᓗᓂ ᐅᐊᖕᓇᖓᓂ ᐅᖕᕙᓘᓐᓃᑦ ᓂᒋᐊᓂᑦ ᑰᒃᑎᒍᑦ. ᑕᒪᓇ ᐅᔭᖃᑦ ᖁᐊᖑᐃᓐᓇᐅᔭᖅᑐᒥᖓᖅᑐᑦ ᐅᔭᕋᒑᖏᑦ ᑕᕆᐅᖑᔪᑦ; ᐅᔭᕋᒑᖏᑦ ᑕᕆᐅᖑᔪᑦ ᑕᒪᒃᑭᓇᖖᒑᖅᓯᒪᔪᑦ ᑕᕆᐅᑉ ᓯᐅᕋᖏᓐᓂᑦ ᓯᐅᔭᓂᑦ; ᑕᕆᐅᖑᔪᑦ ᐅᔭᕋᒑᖏᑦ ᐊᐅᒍᔭᐅᓂᑰᔪᑦ ᐅᔭᕋᓲᒃᔫᔪᑦ, ᑕᒪᕐᒥᒃ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓚᐅᖅᓯᒪᓂᖓᓂᑦ ᐊᒃᑐᖅᑕᐅᓯᒪᓐᖏᑦᑐᑦ ᑭᓯᐊᓂ ᑕᒪᑐᒧᖓ ᓄᓇᕐᔪᐊᑉ ᐱᒋᐊᕐᓂᖓᓂ ᖃᒑᕐᓂᑯᑦ ᐊᑖᓂ ᐃᒫᓂ ᓱᓪᓗᐊᓗᒃᑯᑦ ᓯᐅᔭᖏᓐᓂ. ᐊᐅᕐᐸᓪᓕᐊᔪᓂᑦ ᓯᕐᒥᖕᓂᖕᒑᖅᑐᑦ ᓯᐅᕋᖅ ᐊᒻᒪᓗ ᒥᑭᔪᖅ ᒪᕋᖅ ᐊᒻᒪᓗ ᑐᐊᐸᒃ, ᓴᕿᑐ ᑕᒫᖓᑦ ᑭᖑᓪᓕᖅᐹᖓᓂᑦ ᐊᐅᒃᐸᓪᓕᐊᔪᓂᑦ. Kettle fluvial terraces ᐅᑯᐊᑦᑕᐅᖅ ᐊᒥᓱᓂᒃ ᒦᑕ ᐃᔾᔪᔫᓗᐃᑦ, ᑕᒫᓃᑦᑐᑦ ᐃᔾᔪᓂᖅᓴᐃᑦ ᑲᑎᓯᒪᔪᑦ ᕿᒥᐊᕐᔪᖕᓂᑦ ᐅᖕᕙᓘᓐᓃᑦ ᑰᖕᓂ ᑐᐊᐸᖑᖅᓯᒪᔪᑦ.

ᐃᓕᕿᒍᓃᖅᓯᒪᔪᑦ ᐊᒻᒪᓗ ᐊᐅᒃᓯᒪᔪᑦ

D_1 ᐃᓕᕿᒍᓃᖅᓯᒪᔪᑦ ᐊᒻᒪᓗ M_1 ᐊᐅᒃᓯᒪᔪᑦ

ᑕᐃᒪᖓᓂᑦ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓚᐅᖅᓯᒪᓂᖓᓂᑦ tectonostratigraphic ᐅᔭᖃᑦ ᖁᓛᓂ ᐅᖃᖅᓯᒪᔪᑦ ᑕᒃᑯᐊᖑᓚᔪᒃᑑᓚᓗᐊᑦ ᐱᓪᓗᒍ ᐱᕙᓪᓕᐊᓂᖓ ᓇᒧᑐᐃᓐᓈᖅᑐᑦ ᒥᓕᓖᑐᒥᑦ ᓯᓐᑕᒦᑐᒧᑦ ᐊᕐᖏᑎᒋᔪᑦ ᓵᑑᑕᐅᓕᖅᓯᒪᔪᑦ ᑕᒃᑯᐊ ᐃᑎᓗᐊᖕᖏᑦᑐᑦ ᐊᒻᒪᓗ ᐃᓚᖏᑦ ᐃᑎᔪᒻᒪᕆᐋᓗᐃᑦ ᐳᖅᑐᔪᓪᓗ, ᐊᒻᒪᓗ ᑕᐃᒪᖓᓂᓕᒫᖅ. ᒪᓕᑦᑎᐊᖅᑐᑦ ᐅᔭᖃᑦ ᐊᑕᔪᑦ ᐊᕙᑖᓂᑦ ᐅᔭᖃᑦ ᐊᑖᓂ ᐅᔭᕋᖑᖅᓯᒪᔪᓂᑦ ᐊᒻᒪᓗ

ᐊᐅᖅᓂᕞᔪᓂᑦ. ᑖᒃᑯᓂ ᐃᒪᐅᑉ ᐃᖅᑲᖓᓂᕐᒥᐅᑕᕕᓃᑦ, ᐅᑯᐊ ᐊᑕᐅᖅᑐᑦ ᓇᓗᓇᐃᑦᑎᐊᑲᓐᓂᖅᓯᒪᔪᑦ ᖃᓕᕇᓕᖕᓂᑦ ᐊᐅᒃᓯᒪᔪᑦ ᐆᓇᕐᓂᑯᑦ, sillimanite, ᐅᔭᕋᖕᓂᐊᒐᒃᓴᐃᑦ ᐊᐅᐸᖅᑐᖃᖅᑐᑦ ᐊᒻᒪᓗ locally cordierite, ᓂᕿᑖᖅᑐᑦ ᖃᓕᕇᓕᓃ ᐅᓄᕐᓂᖅᓴᐅᓪᓗᑎᒃ plagioclase, K-feldspar ᐊᒻᒪᓗ ᕿᓕᖅᑐᓖᑦ. ᐅᔭᕋᖕᓂᐊᒐᒃᓴᐃᑦ ᐊᐅᐸᖅᑐᖃᖅᑐᑦ ᐊᖏᓂᓛᑦ ᒥᓚᒦᑕᓂᒃ ᐊᒻᒪᓗ ᐅᔭᖃᓄᑦ ᐃᓚᓕᐅᑎᓯᒪᔪᑦ. ᑕᐃᑲᓂ ᐃᒪᐅᑉ ᐃᖅᑲᖓᓂᕐᒥᐅᑕᕕᓂ, ᑐᑭᓯᓇᖅᓯᓯᒪᔭᖅ ᐊᐅᒃᓯᒪᔭᖅ ᐱᐅᓯᕚᓪᓕᕈᑎᒋᓯᒪᓪᓗᒍ ᐃᓂᑐᖃᕆᔭᓂ. ᓵᑦᑕᐅᓕᖅᓯᒪᔪᑦ ᓴᕙᕋᔭᒃᓴᖃᖅᑐᑦ ᐃᓚᖏᑦ ᐊᒻᒪᓗ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᐃᑦ ᑲᓚᖃᖅᑐᑦ ᐅᔭᕋᖕᓂᐊᒐᒃᓴᐃᑦ ᓇᓗᓇᐃᖅᑕᐅᑎᐊᖅᓯᒪᔪᑦ ᓂᕿᑖᖃᑦᑕᖅᐸᒋᑦ ᓇᒍᑐᐃᓐᓈᖓᔪᑦ ᐱᑕᖃᕈᖏᔭ ᓴᕙᕋᔭᒃᓴᖃᖅᑐᑦ ᐊᖏᔪᓂᒃ ᖃᓕᕇᓕᑦ ᑕᒻᒪᑯᐊ granoblastic, millimetre-scale M_1 orthopyroxene, biotite, magnetite, clinopyroxene, hornblende ᐊᒻᒪᓗ-ᐅᒡᕙᓘᓐᓃᑦ ᐊᐅᐸᖅᑐᓂᒃ ᐅᔭᕋᖕᓂᐊᒐᒃᓴᓂᒃ, ᐊᒻᒪᓗ ᖃᓕᕇᓕᑦ ᐅᓄᕈᕐᒋᓪᓗᑎᒃ plagioclase ᐊᒻᒪᓗ quartz±K-feldspar. ᓴᓂᓕᕇᓕᖅᓯᒪᔪᑦ ᑕᒻᒪᑯᐊ orthopyroxene, biotite, clinopyroxene ᐊᒻᒪᓗ hornblende ᓴᕿᑎᐊᖅᑎᓯᒪᔭᖏᑦ ᓵᑦᑕᐅᓕᖅᓯᒪᔪᑦ ᐊᖏᔪᑦ ᐊᐅᖅᓂᑰᔪᑦ ᐱᑕᖃᖅᑐᑦ.

ᐆᓇᖅᓯᖃᑦᑕᖅᐸᑎᒃ ᑎᓯᒃᑎᓯᒪᔪᑦ ᐅᔭᖃᑦ ᑕᐃᒪᓐᓇ ᐋᕿᒃᓯᒪᓕᖃᑦᑕᖅᑐᑦ ᕿᓐᖓᓂ ᑕᐃᕙᓂ ᐱᓇᓐᓇᖓ ᕿᓐᖓᐃ ᑲᑎᖓᔪᑦ ᑕᐃᑲᓂ ca. 1.84 Ga ᐳᖅᑐᑎᒋᔪᖅ ᐅᖃᖅᑐᖅ St-Onge et al. (2007). ᓄᓇᒥ ᖃᓄᐃᓕᕙᓪᓕᐊᓯᒪᔪ ᐊᒻᒪᓗ ᒥᑭᑎᓂᒃ ᖃᐅᔨᓴᐃᓂᒃ ᐅᔭᕋᓃᑐᒃ ᐃᓕᑕᐅᓇᖏᓐᓂᐊᖅᑐᑦ ᖃᐅᔨᓴᖅᑕᐅᓗᑎᒃ ᖃᓄᖅ ᐊᔾᔨᒋᙱᒋᒪᖑᐃᒋᑦ ᐊᐅᒃᓯᒪᔾᔪᑎᕕᓂᖏᑦ ᑎᑎᕋᖅᑕᐅᑎᐊᕐᓗᑎᒃ ᑲᓇᖕᓇᖓᓂ ᐃᓚᖏᓐᓄᑦ ᓄᓇᖓᓂᑦ.

D_2 ᐃᓕᕐᑭᒍᓃᖅᓯᒪᔪᑦ ᐊᒻᒪᓗ M_2 ᐊᐅᒃᓯᒪᔪᑦ

ᑕᐃᑲᓂ Grinnell Glacier ᓯᕐᒥᖏᑦ ᓄᓇᖕᒍᐊᑦ, ᑭᒡᓕᖏᑦ ᓇᓕᖅᑲᕆᒍᓃᖅᓯᒪᔪᑦ ᐃᓕᕐᑭᒍᓐᓃᖅᓯᒪᔪᑦ ᐃᓗᐊᓂᑦ psammitic ᐊᒻᒪᓗ pelitic ᑭᒻᒥᕈᒻᒥ ᑎᑎᖅᑕᐅᓯᒪᔪᑦ ᐱᕈᕐᔪᐊᕐᓂᖅᓴᐅᓂᖏᓐᓄᑦ ᑕᒻᒪᑯᐊ amphibolite-facies (M_2) biotite-sillimanite-quartz±garnet ᑲᑎᖓᐅᖅᑐᑦ ᓄᐊᓯᒪᔪᑦ ᐅᖃᖅᓯᒪᑦᑎᐊᖅᑐᑦ ᖁᑖᓂ ᑎᑎᕋᖅᓯᒪᔪᓂ. ᐊᒥᓱᒪᕆᐋᓗᐃᑦ, ᒥᑭᔫᑎᒪᕆᐋᓗᐃᑦ ᐃᓕᕐᑭᒍᓃᖅᓯᒪᔪᑦ2 biotite ᐊᒻᒪᓗ sillimanite laths ᓯᖃᓕᑦᑎᐊᖅᓯᒪᔪᑦ, ᒪᐅᓇᖅᓗᑎᒃ, ᐃᓱᓯᒪᓕᓂᖃᖅᑐᑦ (ᓴᕿᔮᑦᑎᐊᖅᑐᑦ ᖃᓕᕇᖕᓂᖏᑦ), retrograde S2 foliation. ᐱᓇᖕᓇᖓᓄᑦ, ᐱᑕᖃᖅᑐᖅ ᐊᔾᔨᒌᓂᖏᓇᑦᑎᐊᖑᖅᓯᒪᔪᑦ ᐊᒻᒪᓗ ᐃᓂᖃᑦᑎᐊᖅᑐᑦ ᑭᒡᓕᓕᐅᖅᓯᒪᔪᑦ ᐅᔭᖃᑦ ᖃᓕᕇᓖᑦ ᐊᒥᓱᑦ ᐊᒻᒪᓗ ᑕᒪᕐᒥᒃ ᓯᕙᖕᒑᔮᖅᑐᑦ ᒪᓂᕋᐅᓪᓗᑎᒃ ᓄᓇᖓ ᐃᓕᕐᑭᒍᓃᖅᓯᒪᔪᖅ2 ᐋᕿᒃᓯᒪᔪᖅ (Scott et al., 1997; St-Onge et al., 2001, 2002) ᐃᓱᒪᓕᖅᓯᓯᒪᔪᑦ ᑕᐃᒪᓗ juxtaposition ᐱᑕᖃᓕᕐᓂᕐᒪᑕ ᑕᐅᕗᖓ ᓂᕆᐊᓄᑦ ᐱᓇᖕᓇᖓᓄᑦ-ᓴᕿᓪᓗᑎᒃ ᓇᐸᖅᑐᓂ. ᐅᓇ ᐃᓕᕐᑭᒍᓐᓃᖅᓯᒪᔪᖅ2 ᑕᐃᒪᓐᓇᐅᓕᖅᐸᒃᑐᑦ ᐱᕙᓪᓕᐊᓂᖓᓄᑦ ᐳᖅᑐᓯᕙᓪᓕᐊᓂᖓᓄᑦ ᐅᑎᖅᑐᓂ S2 ᖄᖓᓃᑦᑐᑦ ᑭᒡᓕᖏᓐᓂ ᐃᓚᖏᑦ ᐃᔾᔪᒫᓪᓗᑎᒃ 10 ᑎᑭᓪᓗᒍ 100 ᒦᑕᓄᑦ. ᐅᓇ ᐃᓕᕐᑭᒍᓃᖅᓯᒪᓂᖓ2 ᐱᖃᑎᖃᖅᑐᖅ ᖄᖓᓃᑦᑐᓂᑦ ᓴᕿᔮᖅᑐᓂᒃ ᓄᓇᖕᒍᐊᒃᑯᑦ ᐃᒍᓯᒪᓂᖏᑦᑎᒍᑦ ᓄᑕᐅᓪᖏᓂᖅᓴᐅᔪᑦ D_1 ᐃᓕᕐᑭᒍᓃᖅᓯᒪᔪᑦ ᐊᒻᒪᓗ M_1 ᐊᐅᒃᓯᒪᔪᑦ (St-Onge et al., 2002).

ᑕᐃᑲᓂ ᐊᙱᓂᖅᓴᐅᔪᒃᑯᑦ, ᐅᓇ ᐃᓕᕐᑭᒍᓃᖅᓯᒪᓂᖓ2 ᓇᓗᓇᐃᖅᓯᒪᔭᖓᓂ St-Onge et al. (2002) ᐅᓇ ᓄᑕᐅᓐᖏᓕᖅ ᑕᐃᒪᓐᓇᐃᓕᖓᔪᖅ ᐃᓕᕐᑭᒍᓃᖅᓯᒪᔪᖅ ᐊᒃᑐᐃᓯᒪᓪᓗᓂᓗ ᑕᒻᒪᓂᒃ ᐱᖓᓱᓂ ᖃᖃᓂᒃ ᐳᖅᑐᓕᖅᑎᓯᒪᓪᓗᒋᑦ ᖃᓕᕇᓕᖓᑦᑎᐊᖅᑐᑦ ᐋᕿᒃᐸᓪᓕᐊᓂᖓ ᓂᕆᐊᓂ ᕿᑭᖅᑖᓗᒃ (ᓴᕿᔮᖅᑐᖅ 2). ᐱᓯᒪᔪᖅ 1) ᐱᕈᖅᐸᓪᓕᐊᓗᓂ ᑭᒻᒥᕈᒥ ᑖᒃᑯᐊ supracrustal strata, monzogranite–diorite gneiss ᐊᒻᒪᓗ ᐊᙱᓕᕙᓪᓕᐊᔪᑦ ᐱᕈᖅᐸᓪᓕᐊᓗᓂ ᓇᓴᕐᔪᐊᖅ ᕿᐱᓐᓂᖓ ᐊᒻᒪᓗ ᑲᒪᐳᓚᓐ ᖃᖄᓗᐃᑦ ᓄᕗᓖᑦ ᑲᑎᖓᔪᑦ ᓄᐊᓯᒪᔪᑦ ᓴᓇᓯᒪᓂᖏᑦ ᑭᒡᓕᖅᑲᖅᑲᓗᑎᒃ monzogranite-granodiorite-tonalite gneiss; 2) ᐊᙱᓕᕙᓪᓕᐊᔪᑦ ᐱᕈᖅᐸᓪᓕᐊᔪᑦ ᓇᓴᕐᔪᐊᖅ

ᕿᐱᓐᓂᖏᑦ ᑲᑎᖓᔪᑦ (ᐳᖅᑐᓂᖓᓂ 2) ᓴᓇᓯᒪᓂᖓᒍᑦ ᑭᐸᓕᐊ ᐅᐊᖕᓇᖓᓂ ᐃᓚᒋᓪᓗᓂᐅᒃ Superior craton (ᐳᖅᑐᓂᖓᓂ 1); ᐊᒻᒪᓗ 3) ᐱᑕᖃᓕᖅᑐᑦ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓕᕐᓂᖓᓂᑦ ᖄᓕᒫᖓᓄᑦ ᐊᒻᒪᓗ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓕᕐᕕᕕᓂᖓ ᐊᑖᓃᓪᓗᓂ ᐋᕿᒃᓯᒪᓂᖓᑕ ᐳᖅᑐᓕᓁᖕᓂᖓᑦᑎᒍᑦ.

ᓄᑖᖅ ᐱᕈᖅᑐᖅ ᐊᒻᒪᓗ ᖁᐊᓕᖅᑎᓪᓗᒍ ᑕᒪᕐᒥᒃ zircon ᐊᒻᒪᓗ monazite ᑕᐃᑲᓂ ᐃᒪᐅᑉ ᐃᖃᖓᓂᕐᒥᐅᑕᕕᓃᑦ ᑕᐅᕙᖓ ᐱᓇᖕᓇᖓᓂ ᑕᑯᑦᑎᓯᒪᔪᑦ ᓇᓗᓇᐃᖅᓯᓯᒪᔪᑦ ᑕᒪᓐᓇ ᐊᐅᒃᓯᒪᔪᖅ2 ᐅᑎᖅᑎᑕᐅᑲᓐᓂᖅᓗᓂ ᐆᓇᖅᓯᕐᔪᐊᕐᒥ ᐅᔭᕐᑲᑦ ᐃᒪᓐᓇ ᐊᖕᖏᑎᒋᔪᒥᒃca. 1820±1–1813±2 Ma (Wodicka and Scott, 1997; Scott et al., 2002; St-Onge et al., 2007), ᓄᓇᒥ ᖃᓄᐃᓕᐅᕐᓕᐊᓯᒪᔪ ᐊᒻᒪᓗ ᖃᐅᔨᓴᐃᓂᖅ ᐅᔭᕐᑲᓂᒃ ᐃᓕᑕᐅᓇᓱᒡᓗᑎᒃ ᐃᑲᔪᕐᓂᐊᖅᑐᑦ ᐅᖓᕙᕈᓐᓇᕐᓂᖓ D2 ᐃᓕᕿᒍᓃᖅᓯᒪᔪᑦ ᐊᒻᒪᓗ M2 ᐊᐅᒃᓯᒪᔪᑦ ᓴᓇᑲᓐᓂᕐᓗᒍ ᑲᓇᖕᓇᖓᓂ ᑭᙵᐃᑦ.

D_3 ᐃᓕᕿᒍᓃᖅᓯᒪᔪᖅ

ᑕᒪᓐᓇ ᐃᓕᖀᖓᔪᑦ1 ᐊᒻᒪᓗ ᐃᓕᕿᒍᓃᖅᓯᒪᔪᖅ2 ᐋᕿᒃᓯᒪᓂᖏᑦ ᐊᒻᒪᓗ ᓇᑎᓕᒫᖓ ᑕᐃᑲᓂ ᑎᐅᓚ ᓂᕕᐊ ᓄᓇᖑᐊᕐᒥ ᓄᓇᐃᑦ ᑐᑭᓯᓇᖅᓯᑎᖏᐊᑲᓐᓂᖅᓯᒪᔪᑦ ᐊᕕᒃᑐᖅᓯᒪᔪᑎᒍᑦ ᐅᐊᖕᓇᖓᓂ ᑕᐅᕙᖓ ᐅᐊᖕᓇᖓᓂ ᐱᓇᖕᓇᖓᓄ ᓄᖅᑲᖓᔪᖅ ᐃᓕᕿᒍᓃᖅᓯᒪᓂᖓᑕ 3 ᐃᒧᓯᒪᓂᖓᓄᑦ. ᑕᒪᓐᓇ ᐃᓕᕿᒍᓃᖅᓯᒪᓂᖓᑕ 3 ᐃᒧᓯᒪᓂᖓᓄᑦ ᐊᖕᖏᑎᒋᔪᖅ ᓄᓇᖑᐊᒃᑯᑦ ᐊᒻᒪᓗ ᓴᕿᔮᖅᑐᑦ ᒪᓕᑦᑎᐊᖅᑐᑦ ᐱᓇᖕᓇᖓᓂ ᓂᒋᐊᓄᑦ - ᓴᕿᐸᓪᓕᐊᔪᑦ ᓇᓕᒧᕇᑦᑎᐊᖅᓗᑎᒃ ᐊᑕᐅᓯᕐᒧᑦ ᓵᖓᔪᐃᓐᓇᐅᓪᓗᑎᒃ. ᐃᔾᔪᔪᕐᔪᐊᕌᓘᓐᖏᑦᑐᖅ ᓇᑎᖅ ᐱᕙᓪᓕᐊᓂᖅ ᐊᑕᔪᖅ ᐃᓕᕿᒍᓃᕈᑎᕆᓯᒪᓪᓗᒍ3 ᑕᒪᓐᓇ ᑎᑎᕋᖅᑕᐅᓯᒪᔪᖅ.

ᑯᐸᐃᒃ ᑕᕐᕋᖓᓂ, ᓄᓇᖓᑕ ᓇᑎᓕᒫᖓ ᐊᖕᖏᓂᖓ ᐃᓕᕿᖏᑑᑕᐅᔪᖅ3 ᐃᒧᓯᒪᔪᖅ ᓴᓇᓯᒪᓂᖓ ᐳᖅᑐᓂᖓ 1 ᐊᒻᒪᓗ 2 1.76-ᒥᒃ (Lucas and St-Onge, 1992). Lucas and Byrne (1992) ᑐᒃᓯᕋᖅᓯᒪᔪᑦ ᑕᒪᓐᓇ ᖃᖃᖑᕈᑎᕆᓯᒪᔭᖓ ᖁᒻᒧᑦ ᐃᒧᓯᒪᔪᖅ ᑕᐃᒪᓐᓇᐅᔪᖅ ᑲᔪᓯᓯᒪᓂᖓᓄ ᓴᓂᒧᑦ ᑕᐃᑲᓂ ᓄᓇᕐᔪᐊᖅ ᐱᒋᐊᓕᓵᕐᓂᖓᓂ ᓇᐃᒡᓕᕖᓪᓕᖅᓗᓂ ᐅᐊᖕᓇᖓᓂ ᐱᓇᖕᓇᖓᓃᑦᑐᖅ ᐊᕙᑖᓂᑦ Hᐊᑦᓴᓐ ᖃᖃᐃᑦ.

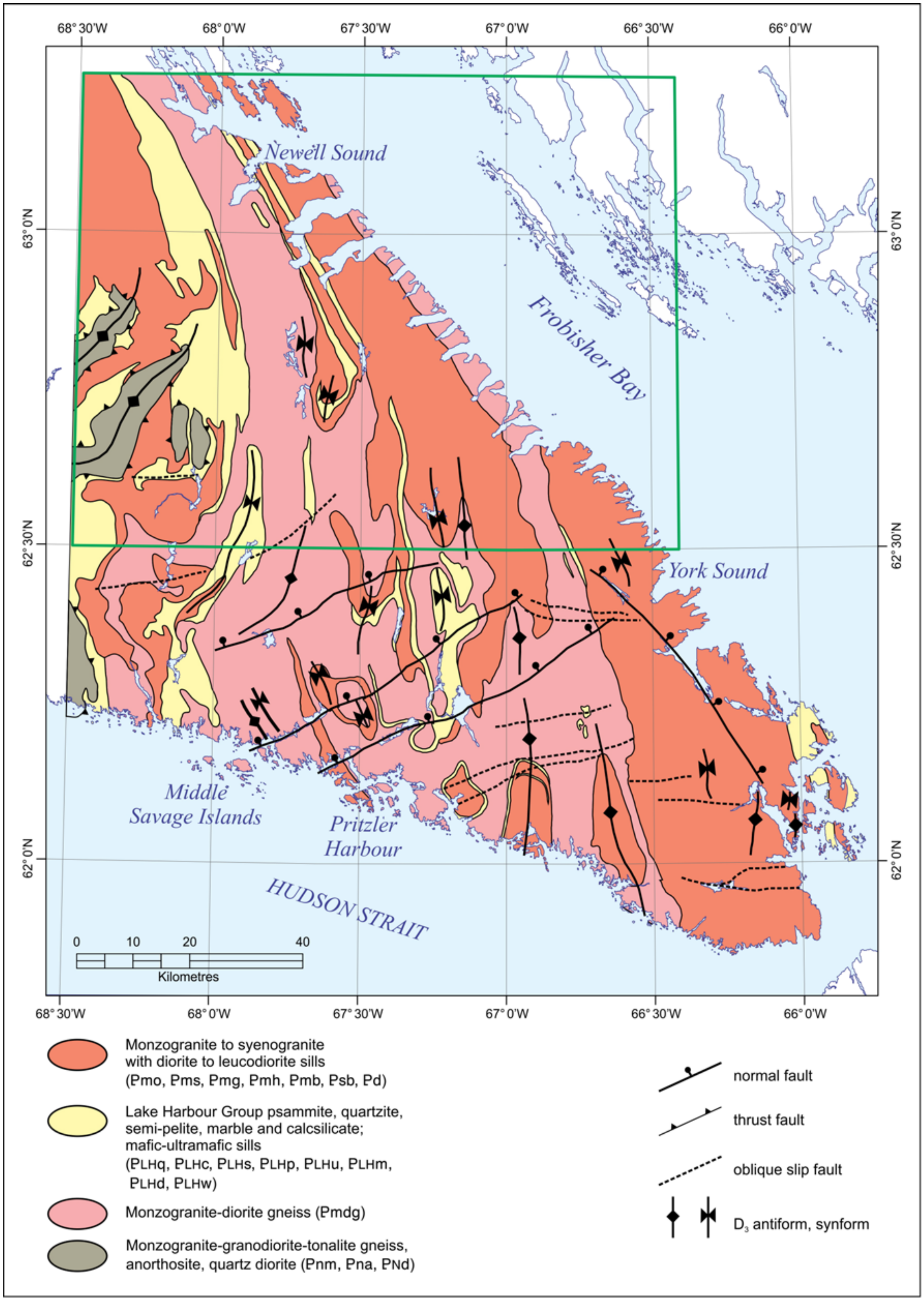
D_4 ᐃᓕᕿᒍᓐᓃᖅᓯᒪᔪᖅ$_4$

ᖁᒻᒧᑦ ᐃᒧᕙᓪᓕᐊᓯᒪᔪᓂᑦ ᑕᒪᕐᒥᒃ ᓄᑕᐅᓐᖏᓂᖅᓴᐅᔪᑦ ᐃᓚᒐᓚᖏᑦ ᑲᓇᖕᓇᖓᓂ ᑕᐅᕙᖓ ᐅᐊᖕᓇᖓᓄ ᓄᖅᑲᖓᔪᑦ ᐃᓕᕿᒍᓃᖅᓯᒪᔪᑦ ᐃᒧᓯᒪᓪᓗᑎᒃ ᑕᐸᐅᖓᖓᔪᖅ ᐃᓚᒐᓛᖏᓪᓗ ᐸᒡᕕᔭᐅᒐᒥ ᐃᒧᕙᓪᓕᐊᓯᒪᖕᒪᑦ, ᐅᓕᒃᓯᒪᔪᑦ ᐊᒻᒪᓗ ᐃᓗᑦᑐᖅᓯᒪᔪᑦ ᓄᓇᖑᐊᓂ ᓴᕿᔮᖅᑐᑦ ᑕᐅᕙᓂ ᓂᒋᐊᓂ ᐊᒻᒪᓗ ᑲᓇᖕᓇᖓᓂ ᑲᖏᕐᓂᖅ (ᓴᕿᔮᖅᑐᖅ 1). ᓄᖅᑲᖓᔪᑖ ᐃᒧᕙᓪᓕᐊᓂᖓᑕ ᐃᓕᕿᖏᑦᑐᖅ 3 ᐊᒻᒪᓗ ᐃᓕᕿᖏᑦᑐᖅ4 ᐃᒧᓂᖓ ᐊᖏᔪᒥᒃ ᐋᕿᑦᑎᐊᖅᓯᒪᓕᖅᑐᖅ ᐊᔪᖏᑎᑦᑎᕙᖅ ᐃᓕᓐᓇᓱᒡᓗᒍ ᓄᓇᖓ ᓴᓇᓯᓂᖓ ᓂᒋᐊᓂ ᕿᑭᖅᑖᓗᒃ ᐊᒻᒪᓗ ᑭᙵᐃᑦ, ᐃᓚᒋᔭᐅᓪᓗᑎᒃ ᐱᖓᓯᑦ ᑐᙵᔾᔪᑕᐅᓪᓗᑎᒃ ᓴᓇᓯᒪᔪᑦ ᐳᖅᑐᔪᑦ ᓴᕿᔮᖅᑐᑦ ᒫᓐᓇᐅᔪᖅ ᐊᐅᓪᓚᐊᔪᑦ ᖄᖓᓂ. ᐅᓇ ᐃᓕᕿᒍᓃᖅᓯᒪᔪᖅ4 ᐃᒧᕙᓪᓕᐊᔪᖅ ᑯᐊᐃᒃ ᑕᕐᕋᖓᓂ ᐳᖅᑐᑎᒋᔪᖅ 1.76 ᐊᒻᒪᓗ 1.74 (Lucas and St-Onge, 1992).

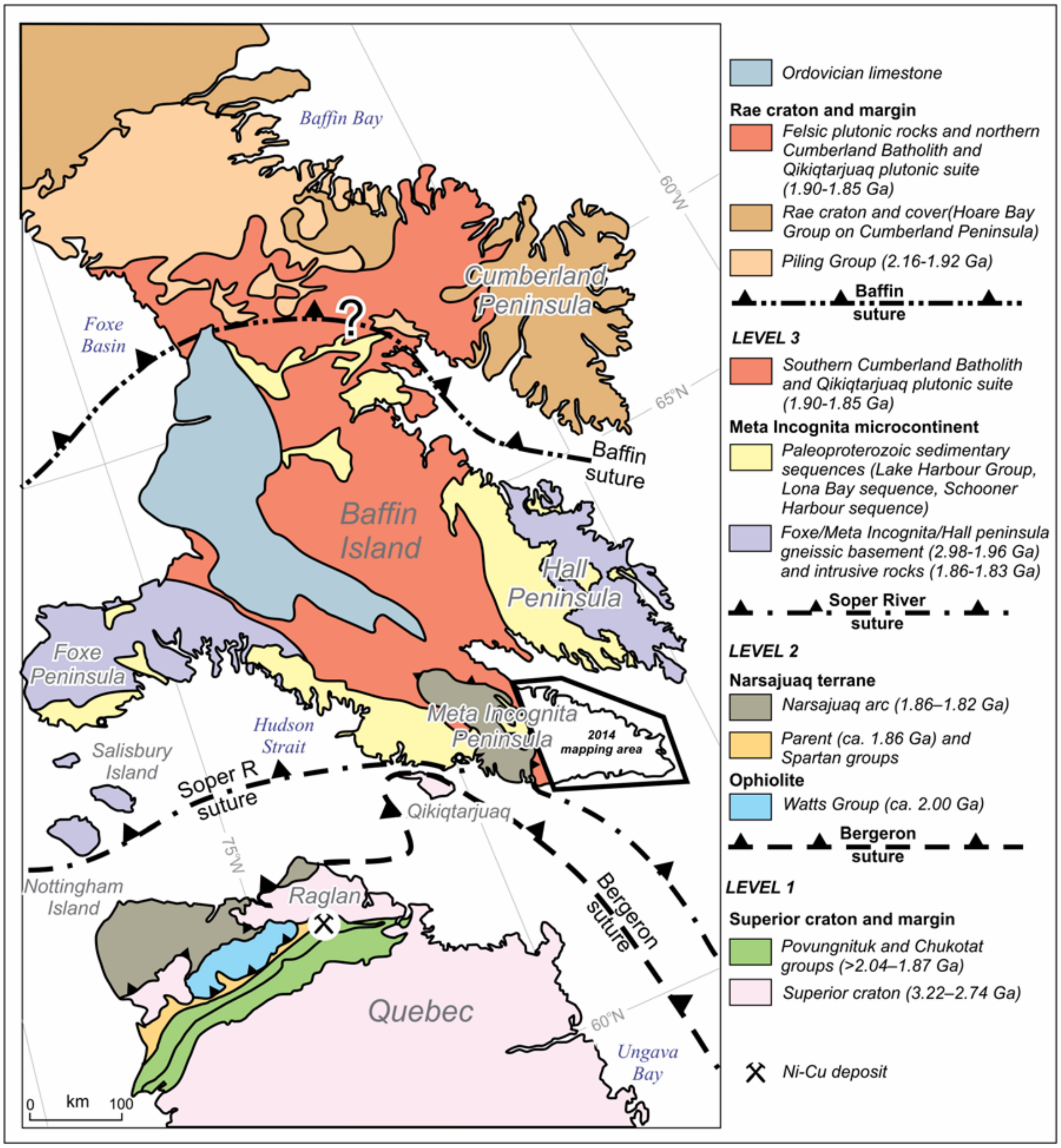
ᑮᓇᐅᔭᓕᐅᕈᑕᐅᔪᓐᓇᖅᑐᑦ ᐃᓱᒪᓕᐊᒃᓴᐃᑦ

ᐊᒥᓲᔪᑦ ᐅᔭᕐᑲᑦ ᐅᔭᕋᖕᓂᐊᒐᒃᓴᐅᔪᑦ ᐊᒻᒪᓗ ᐱᑕᖃᐅᕐᓂᖓ ᑮᓇᐅᔭᓕᐅᕈᑕᐅᔪᓐᓇᖅᑐᑦ ᓇᓗᓇᐃᖅᑕᐅᓚᐅᖅᑐᑦ ᑕᐃᑲᓂ 2014 ᐱᓕᕆᔭᐅᒐᒥ ᐊᒻᒪᓗ ᑐᕌᖅᑕᐅᔪ ᓄᓇᖑᐊᓕᐊᖑᔪᒪᔪ ᑲᓇᖕᓇᖓ ᑭᙵᐃᑦ. ᖃᓕᓁ mafic-ultramafic sillsᓴᕕᖃᔭᒃᓴᖃᖅᑐᑦ ᓇᐸᑦᑎᐊᖅᑐᑦ ᑕᐃᑲᓂ

sulphidic siliciclastic strata ᐅᔭᕋᒃᑕᕆᐊᒃᓴᖃᖅᑐᑦ ᐅᔭᖃᑦ ᐃᓗᓕᖕᒋᓂ ᐊᔾᔨᖕᒋᑦ ᐃᓂᖃᕐᒪᑕ Ni–Cu–platinum-group ᐃᓚᓯᒪᔪᑦ ᐅᔭᕋᖕᖑᖅᓯᒪᔪᓂ ᓇᓂᑐᐃᓐᓇᖅ Hᐊᑦᓴᓐ ᖃᖃᐃᑦ (ᓵᕐᓗ ᑕᒪᒃᑯᐊ ᓴᕕᕋᔭᒃᓴᐃᑦ ᐱᑕᓕᑦ ᑲᓇᖕᓇᖕᒐᓂ ᑲᐃᑉ ᓯᒥᑦ ᑯᐸᐃᒃ ᑕᕐᕋᖕᒐᓂ; St-Onge and Lucas, 1994; Lesher, 2007). ᓄᓇᖕᒐᑕ ᖃᓄᓇᑑᑕᐅᓂᖕᒐ ᓴᕕᕋᔭᒃᓴᖃᖅᑐᑦ ᓇᓗᓇᐃᔭᑦᑎᐊᑲᓐᓂᖅᓯᒪᔪᖅ St-Onge et al. (2015). Serpentinized ultramafic ᐅᔭᖃᑦ ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᖅ ᐊᒥᓲᔪᑦ ᑕᐃᑲᓂ ᓄᓇᓐᖑᐊᓃᑦᑐᑦ ᓄᓴᖕᒋᑦ, ᐃᓚᖕᒋᑦ ᐅᔭᖃᑦ ᐊᑐᖅᑕᐅᔪᓐᓇᖅᑐᑦ ᓴᓇᖑᐊᒐᒃᓴᑦ. ᐊᒥᓲᑦ granitic pegmatite dykes ᐊᒻᒪᓗ ᑕᖃᖕᒋᑦᑎᒍᑦ ᑲᖕᒋᕐᓂᖅ ᐃᓗᓕᓖᑦ muscovite, biotite ᐊᒻᒪᓗ locally tourmaline ᖃᐅᔨᓴᕈᑎᒌᖑᓯᒪᔪᑦ ᖃᐅᔨᓴᐅᑦᑎᐊᕐᓂᐊᕐᒪᑕ ᐃᓗᓕᖕᒋᑦ ᐅᔭᕋᒃᑕᕆᐊᒐᒃᓴᐅᔪᑦ.



ᓴᕿᔮᖅᑐᖅ 1. ᑐᑭᓯᓇᖅᓯᑎᑦᑎᐊᕐᓗᒋᑦ ᐅᔭᕋᔾᔪᐊᑦ ᖃᐅᔨᓴᖅᑕᐅᓂᖓ ᓄᓇᖓᓂ ᑲᓇᖕᓇᖓᓂ ᑭᙵᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ, ᒪᓕᒃᑐᖅ 2014 ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᐊᒻᒪᓗ ᑐᕌᖅᑕᐅᔪᓂ ᓄᓇᖑᐊᓕᐊᖑᓗᑎᒃ, ᐃᓚᖅᑲᕐᓗᑎᒃ ᐃᑦᑕᓂᑕᖕᖏᓐᓂᒃ ᑕᑯᔭᐅᓯᒪᔪᑦ ᓄᐅᑕᐅᓯᒪᔪᑦ ᑕᐃᑲᓂ ᐊᐅᓚᑲᐅᑎᓪᓗᒍ ᐊᒫᕐᒧᐊᖅ 1965-ᒥ (Blackadar, 1967) ᐊᒻᒪᓗ ᓂᒋᐊ ᕿᑭᖅᑖᓗᒃ ᐱᓕᕆᖑᔪᖅ 1995-ᒥᑦ 97-ᒧᑦ (St-Onge et al., 1999a–g). ᑕᐃᓐᓇ Grinnell Glacier ᓄᓇᖑᐊᖓ ᐊᕙᓗᓕᒃ ᐆᔭᐅᔭᕐᒥᒃ.

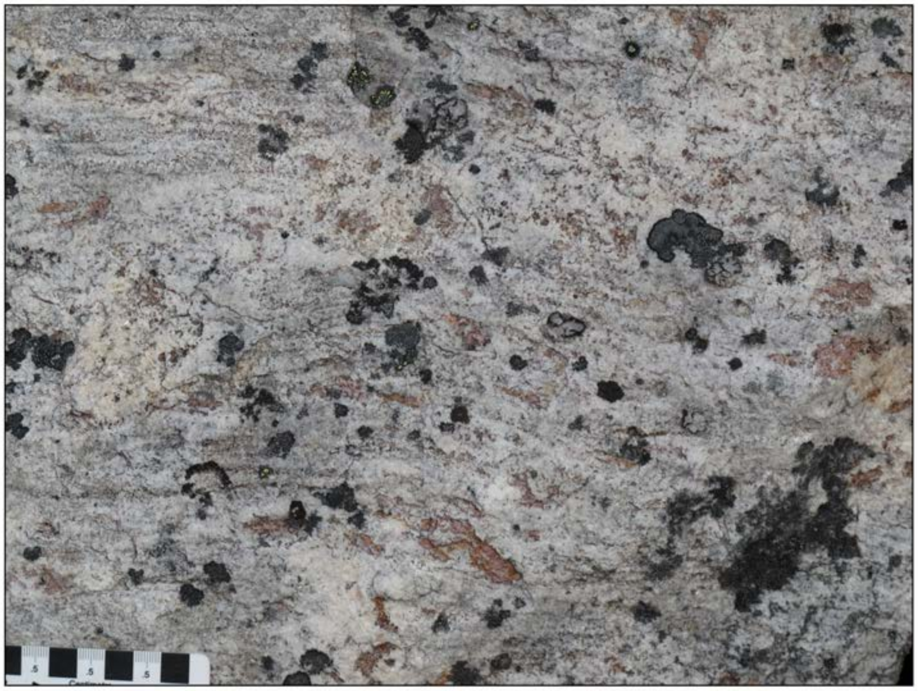


ᓴᕿᔮᖅᑐᖅ 2. ᑐᑭᓯᓇᖅᓯᑎᑦᑎᐊᖅᓯᒪᔪᑦ ᓄᓇᒥᒃ ᖃᐅᔨᓴᓯᑦᑎᐊᕐᓂᖅ ᐋᕿᒃᓯᒪᔪᓂᒃ ᓄᓇᙳᐊᓕᐅᖅᓯᒪᔪᑦ ᑯᐸᒃ-ᕿᑭᖅᑖᓗᒃ ᕼᐊᑦᓴᓐ ᖃᖅᑲᖏᑦ (ᐋᕿᒋᐊᖅᓯᒪᔾᔪᖏᑦ St-Onge et al., 2007), ᑐᓂᓯᓯᒪᓪᓗᑎᒃ ᐊᕕᒃᑐᖅᓯᒪᔪᓂ ᑲᑎᙵᐅᕈᑎᖏᑦ ᑲᓇᖕᓇᖕᒐᓂ ᑭᙵᒪᐃᑦ ᓄᓇᖕᒐᓂ (ᑎᑎᕋᖅᓯᒪᕗᑦ ᕿᓂᖅᓯᓯᒪᔪᑦ ᐊᐅᒃᑲᖅᓃᑦ ᐊᒻᒪᓗ ᓴᕿᓯᒪᓪᓗᑎᒃ ᓇᓗᓇᐃᔭᑦᑎᐊᖅᓯᒪᓪᓗᑎᒃ ᓴᕿᔮᖅᑐᖅ 1).

ᓴᕿᔮᖅᑐᖅ 3. ᖃᓕᕈᓕᓪ ᓱᐳᕋᐃᑦ ᐅᔭᕋᓱᒡᔪᙳᖅᓯᒪᔪᑦ ᖃᓄᕆᑦᑐᑐᐃᓐᓇᓂᒃ ᐅᔭᖃᑦ, ᓇᑲᑎᖅᓯᒪᔪᑦ ᑕᖃᕐᒥᑦ ᖃᑯᖅᑕᑦ ᓱᐳᕋᐃᑦ ᐅᔭᕋᙳᖅᓯᒪᔪᑦ (ᐊᑖᓂ ᑕᓕᕿᐱᐊᓂ ᐋᕐᕌᙳᐊᑦ), ᑭᓐᖓᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ; ᑲᓱᒃᑕᖅᑐᑦ 35 ᓰᓐᑎᒦᑕ ᑕᑭᑎᒋᔭᖅ. 2014-223

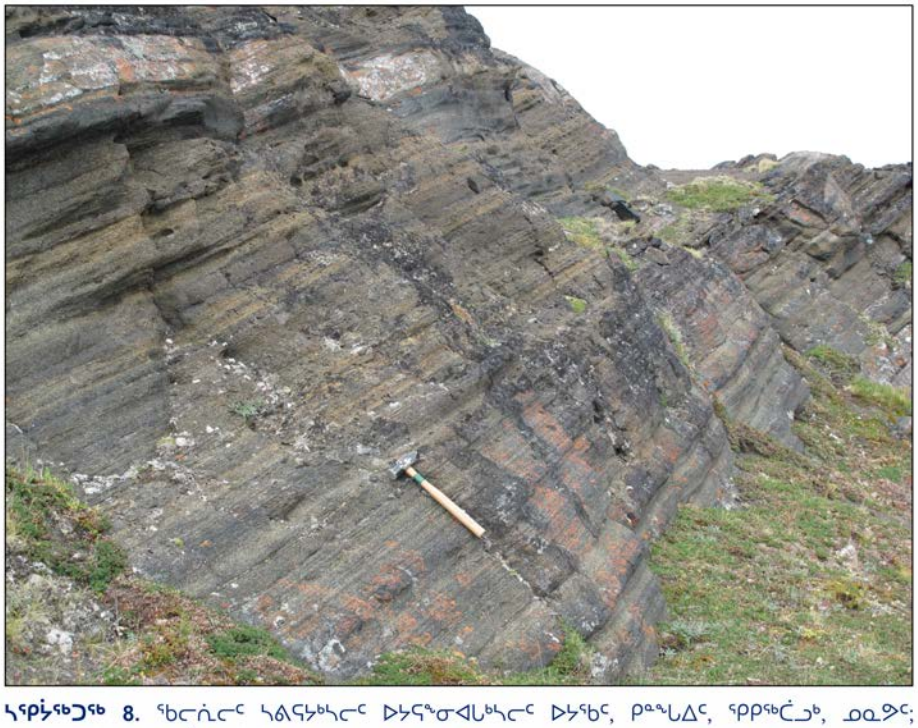
ᓴᕿᔮᖅᑐᖅ 4. ᐃᒃᑲᐅᒦᑦᑐᑦ, ᖃᓕᕈᓕᑦᑎᐊᖅᓯᒪᔪᑦ, ᐅᔭᕐᓂᐊᒐᒃᓴᐃᑦ ᐊᐅᐸᖅᑐᖃᖅᑐᑦ ᓴᕙᕋᔭᒃᓵᓕᑦ, ᑭᒻᒥᕈᒻᒥ, ᑭᓐᖓᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ; ᐅᔭᕐᓂᐊᕐᑎᑦ ᓄᓈᙳᐊᒃᑯᑦ 2 ᒦᑕᒥ ᑕᑭᑎᒋᔪᑦ. 2014-217

ᓴᕿᔮᖅᑐᖅ 5. ᐊᐅᐸᖅᑐᓖᑦ ᐅᔭᕋᓐᓂᐊᒐᒃᓴᐃᑦ ᐅᔭᖃᓂ, ᕿᓂᖅᑕᐃᓪᓗ ᓴᕕᕋᔭᒃᓵᓪ-psammite, ᑭᒻᒥᕈᒻᒥᑦ, ᑮᓐᖓᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ. 2014-224



ᓴᕿᔮᖅᑐᖅ 6. ᐊᖕᖏᓪᓕᑎᓯᒪᔪᖅ ᑎᒥᖓ ᐅᔭᕋᓐᓂᐊᒐᒃᓴᐃᑦ ᐊᐅᐸᖅᑐᕐᑲᖅᑐᑦ ᐃᓂᑐᕐᑲᕐᒥᓂ ᑭᒻᒥᕈᒥ psammite ᐊᒻᒪᓗ feldspathic quartzite, ᑮᓐᖓᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ. 2014-218

ᓴᕿᔮᖅᑐᖅ 7. Diopside-phlogopite-spinel-apatite-quartz calcareous grit, ᑭᒻᒥᕈᒥ, ᑭᙵᒪᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ. 2014-220



ᓴᕿᔮᖅᑐᖅ 8. ᖃᓕᓅᓕᑦ ᓴᕕᕋᔭᒃᓴᓕᑦ ᐅᔭᕋᓐᓂᐊᒐᒃᓴᓕᑦ ᐅᔭᖃᑦ, ᑭᙵᒪᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ; ᐊᙵᒋᓂᖏᑦ 35 ᓰᓐᑕᒦᑕ ᑕᑭᑎᒋᔪᑦ . 2014-219

ᓴᖅᑭᔮᖅᑐᖅ 9. ᓵᑑᑕᐅᓕᖅᓯᒪᔪᑦ K-feldspar megacrystic monzogranite ᑭᖕᒐᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ. 2014-222

ᓴᖅᑭᔮᖅᑐᖅ 10. ᓵᑑᑕᐅᓕᖅᓯᒪᔪᑦ ᕿᓪᓕᖅᑕᑖᑦ ᑐᓄᐊᓃᑦᑐᑦ ᐃᓂᑐᖅᑲᖅᒥᖕᓃᑦᑐᑦ orthopyroxene-biotite± magnetite monzogranite, ᑭᖕᒐᐃᑦ, ᕿᑭᖅᑖᓗᒃ, ᓄᓇᕗᑦ, ᐊᔾᔨᑎᒋᔪᖅ ᓄᓇᒥ ᑕᑯᒃᓴᐅᔪᖅ 600 ᒦᑕ. 2014-221

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ᑎᑎᕋᖅᑐᖅ ᐅᖃᖃᑎᒋᔪᓐᓇᖅᑕᖕᒋᑦ

ᐊᐱᕐᑯᑎᑦ, ᐃᓱᒪᓕᕈᑎᑦ, ᐊᒻᒪᓗ ᐅᖃᐅᓪᓴᐃᑦ ᐱᓪᓗᒍ ᓄᓇᒥᒃ ᖃᐅᔨᓴᕐᓂᖅ ᓄᓇᓕᕆᓂᖅ ᐃᓗᓕᖃᖅᑐᑦ ᖃᐅᔨᒪᑎᑦᑎᔾᔪᑎᒐᓚᒃᓴᓂᒃ ᐅᖃᐅᓯᐅᔪᓐᓇᖅᑐᑦ ᐅᕗᖓ:

ᐃᒻ.ᐊ. ᓯᑦ-ᐋᖕ
ᓄᓇᓐᖑᐊᓕᕆᔾᑯᑦ ᑲᓇᑕᒥ
601 Booth Street
ᐋᑐᕚ, ᐋᓐᑎᐅᕆᐅ
K1A 0E8
Marc.St-Onge@NRCan-RNCan.gc.ca

ᑲᒪᔾᐅᔪᑦ ᐱᓕᕆᖃᑎᒌᑦ

ᖃᓅᑎᒋᑦᑕᕐᓂᕕᓂᖕᒋᓐᓂᒃ ᓇᓚᐅᑖᖅᓯᒪᔪᑦ: ᔪᓂᕗᓯ ᑐᓚᕗᔅ ᒧᑲᐃᑐ
ᐊᖏᔫᑕᐅᓂᖕᒋᑦ: ᒦᑕᔅ
ᓇᓗᓇᐃᖅᑕᐅᓯᒪᔪᖅ ᓄᓇ: 19
ᓴᓂᒧᑦ ᓇᓗᓇᐃᕈᑖ: NAD83
ᖁᒻᒧᑦ ᓇᓗᓇᐃᕈᑖ: ᑐᑭᖃᖅᑐᖅ ᑕᕆᐅᖓᑕ ᖁᕙᖅᓯᒪᓂᖓᓂᒃ

ᓄᒃᑕᕐᓂᖓᑕ ᑲᒪᒋᔭᑦ

ᐱᓇᖕᓇᖓᓂ ᖁᓐᒧᑦ: 68°30’00” ᐱᓇᖕᓇᖓ
ᑲᓇᖕᓇᖓ ᖁᒻᒧᑦ: 66°25’00” ᐱᓇᖕᓇᖓ
ᐅᐊᖕᓇᖓ ᓴᓂᒧᑦ: 63°15’00” ᐅᐊᖕᓇᖓ
ᓂᒋᐊ ᓴᓂᒧᑦ: 62°30’00” ᐅᐊᖕᓇᖓ

ᖃᐅᔨᒪᔾᔪᑏᑦ ᐋᕿᒃᓯᒪᓂᖕᒋᑕ ᑭᓲᓂᖕᒋᑦ

Geological Dataset accompanying this publication complies with the GSC’s Project Bedrock Schema (beta version 2.2). A short text describing the feature classes, tables and attributes is currently under review and will be made available for download shortly.

All attribute names and definitions are identical in the geodatabase (.gdb file), the shapefiles and the XML workspace file.

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ᓚᐃᓴᓯ ᐊᑐᐃᓐᓇᐅᔪᖅ ᖅᑲᓪᓗᓈᑎᑐᑦ ᐅᒡᕙᓘᓐᓃᑦ ᐅᐃᕕᖅᑎᑐᑦ.