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መ አገልግሎት የኩስና ተወካይ የዕድገት
የዕድገት መሆኑ የኩስና ተወካይ የዕድገት 254S

መ አገልግሎት የኩስና ተወካይ የዕድገት 2016-11S

መ አገልግሎት የኩስና ተወካይ 2016-11S

መ አገልግሎት የኩስና ተወካይ

SYLVIA GRINNELL

LAKE (SOUTH)

የቦርናርሱ, መ አገልግሎት



መ አገልግሎት
የኩስና ተወካይ
በአገልግሎት

ለጥቃቅና

መ አገልግሎት የኩስና ተወካይ የዕድገት
የዕድገት የኩስና ተወካይ የዕድገት 2016-11S

2016

Canada

Հ ԳԵՐԳԵՂԾՎԵՐԸ



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GEOSCIENCE OFFICE

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KANATAMI-NUNAVUMI GEOSCIENCE TITIGAKVIIT

፩፻፲፭፻፯፻

ወደገናጭርንኩፌር የወረዳት, ወደ ንግድ በስኔነት እና የወረዳት የወረዳት
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◀ໜ້າ

ሸራሱ እና ስራዎች, Sylvia Grinnell Lake (south), የቦባይርሱ, የደንብ

◀◀◀◀◀

1:100 000

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በበኩፋይ ታደርጉ ተስፋጭ ስ. M183-1/254-2016S-PDF

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ΔL^o L^o b^o R^o C^o b^o σ^o σ^o ΔL C^o σ>^obΔbC<^oσ^o
R^oL^oC^oL^oσ^oL^o R^oL^o C^o σ^o L^o C^o σ^o NRCAn-d^oσ^o.
b^oD^oR^ob^oσ^oL^oY^o, NRCAn-d^o b^oD^oR^oA^oR^o C^o σ^o D^oσ
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ABSTRACT

This map summarizes the field observations for the Sylvia Grinnell Lake (south) map area following eight weeks of regional and targeted bedrock mapping on western Hall Peninsula. The 2015 field campaign completes a two-decade mission to update map coverage for the whole of Baffin Island south of latitude 70°N. The bedrock is dominated by a Paleoproterozoic metaplutonic suite, ranging in composition from gabbro to syenogranite, with crosscutting relations indicating a progression from mafic to silicic magmatism. Prevailing upper amphibolite to lower granulite facies metamorphic conditions overlap the stability limits of magnetite and orthopyroxene, which is consistent with equilibrium phase diagrams and regional aeromagnetic data. Metasedimentary rocks, including quartzite, pelite, marble, and metagreywacke, are present as screens and enclaves between and within plutonic bodies. An examination of the 'ghost' stratigraphy suggests that the metasedimentary rocks can be correlated with the middle Paleoproterozoic Lake Harbour Group in the south and Piling Group in the north. Two basaltic dyke swarms and shallowly dipping Ordovician limestone respectively crosscut and overlie the Paleoproterozoic units.

Arts & Crafts

▷ດ້ວຍການ ດັບກຳມະນຸດ plutonic Δົກຕິດີ. ນິບປະກິເນົາຫຼື ‘C₄N₃C₄’ ມີຄວາມໄສ່ຈຳ
ແກ້ວດັບຢູ່ກຳມະນຸດ metasedimentary ແລ້ວບັດ ບ່ອນ້າສົ່ງບ່ອນ້າດັບຢູ່ກຳມະນຸດ Paleoproterozoic
ຢູ່ກຳມະນຸດ ລັດຖະບານ ສົ່ງໃຫຍ່ ດັບກຳມະນຸດ > ດັບກຳມະນຸດ ສົ່ງໃຫຍ່. ລັດຖະບານ basaltic
ແລ້ວບັດ ດັບກຳມະນຸດ ດັບກຳມະນຸດ ພົມມະນຸດຈຳກັດ Ordovician limestone ນິດຕະໜີບັດຫຼື ດັບກຳມະນຸດ
Paleoproterozoic ບ່ອນ້າສົ່ງໃຫຍ່.

ໝວດ ໂພນ ກິ່າມ

ຕະຫຼາມກົດໝາຍ

ົບດົນ: M.R. St-Onge, O.M. Weller, B.J. Dyck, N.M. Rayner, T. Chadwick, ໄ ໌ L
D. Liikane

ມີຄວາມໄສ່ຈຳກຳມະນຸດ M.R. St-Onge, O.M. Weller, B.J. Dyck, N.M. Rayner, T. Chadwick, ໄ ໌ L
D. Liikane, ມີຄວາມໄສ່ຈຳກຳມະນຸດ ນິບປະກິເນົາຢູ່ກຳມະນຸດ ບັດ; S. Noble-Nowdluk, T. Milton, ໄ ໌ L
T. Rowe, ມີຄວາມໄສ່ຈຳກຳມະນຸດ, 2015

ມີຄວາມໄສ່ຈຳກຳມະນຸດ ອົບດົນ ດັບກຳມະນຸດ M.R. St-Onge ໄ ໌ L ໃບດົນ ຕະຫຼາມກົດໝາຍ
M.R. St-Onge ໄ ໌ L O.M. Weller, 2015

ມີຄວາມໄສ່ຈຳກຳມະນຸດ ລົງທະບຽນ ລົງທະບຽນ ລົງທະບຽນ ຕະຫຼາມກົດໝາຍ, ດັວງໃຈ 2.6

ມີຄວາມໄສ່ຈຳກຳມະນຸດ A. Morin, A. Ford, C. Gilbert, L. Robertson, G. Buller, ໄ ໌ L R. Buenviaje

ມີຄວາມໄສ່ຈຳກຳມະນຸດ N. Côté

ຕະຫຼາມກົດໝາຍ ນິບປະກິເນົາ ດັບກຳມະນຸດ ດັບກຳມະນຸດ Wintranslation; ຕະຫຼາມກົດໝາຍ ຢັດ
ຂໍ້ຕົວຢ່າງ ດັບກຳມະນຸດ ດັບກຳມະນຸດ.

ໂດຍ ມີຄວາມໄສ່ຈຳກຳມະນຸດ ດັບກຳມະນຸດ ມີຄວາມໄສ່ຈຳກຳມະນຸດ ມີຄວາມໄສ່ຈຳກຳມະນຸດ ດັບກຳມະນຸດ
ຢູ່ກຳມະນຸດ ໄ ໌ L ແລ້ວຢູ່ກຳມະນຸດ (GEM) ລົງທະບຽນ ລົງທະບຽນ ຕະຫຼາມກົດໝາຍ
ຕະຫຼາມກົດໝາຍ ມີຄວາມໄສ່ຈຳກຳມະນຸດ ນິບປະກິເນົາຢູ່ກຳມະນຸດ ບັດ (GSC) ລົງທະບຽນ ລົງທະບຽນ
ບັດ ມີຄວາມໄສ່ຈຳກຳມະນຸດ ດັບກຳມະນຸດ ນິບປະກິເນົາ ດັບກຳມະນຸດ ດັບກຳມະນຸດ ດັບກຳມະນຸດ
ຢູ່ກຳມະນຸດ, ດັບກຳມະນຸດ ຢັດ ຢັດ ດັບກຳມະນຸດ ດັບກຳມະນຸດ ດັບກຳມະນຸດ.

ມີຄວາມໄສ່ຈຳກຳມະນຸດ ດັບກຳມະນຸດ ຢັດ ຢັດ ດັບກຳມະນຸດ ດັບກຳມະນຸດ ດັບກຳມະນຸດ
ຕະຫຼາມກົດໝາຍ ຮັດ ວິທີ່ ດັບກຳມະນຸດ ດັບກຳມະນຸດ ດັບກຳມະນຸດ ດັບກຳມະນຸດ
PCSP 05615

ມີຄວາມໄສ່ຈຳກຳມະນຸດ ດັບກຳມະນຸດ Universal Transverse Mercator, ໄ ໌ L ຢັດ 19.
North American Datum 1983

የየቤናዎች ማስታወሻ በመሆኑ የሚከተሉት ነው፡፡

የሚከተሉት ደንብ የሚከተሉት ነው፡፡

የሚከተሉት ደንብ የሚከተሉት ነው፡፡

ርዕስ በበኩለ እና የሚከተሉ ስም ነው እና የሚከተሉ ስም ነው.

ወጪልኩናየረዳውንና በበኩሉ የተደረገው እና ስራውን በስራው የሚፈጸም ይችላል

GEOSCAN (<http://geoscan.nrcan.gc.ca/>)

ხას ფორმა დასტანციულ გენერატორს (<http://cngo.ca/>).

ՀԿԵՐՈՎԾՎԵՐՆԱԼ, ՀԵՐՄԱՆԸ ՇՆԵՐՁԱՆԻ, ԳԻՇԱԿԱՆԵՐԸ ՎՐԱՅԻՐՆԵՐԸ

Հերթականությամբ՝ առաջինը՝ Portable Document File (PDF)-ի վեցական համար, եղանակը պահպանվում է առաջին համարում գրառադիր պատճենության վեցական համարում:

ወደ የፌዴራል አገልግሎት ተስተካክለ ይችላል ይህንን የሚከተሉት የፌዴራል አገልግሎት ተስተካክለ ይችላል

ይጋብረል በግብር ስራውን እንደሚገኘው የሚከተሉ የሚሆኑ ማስቀመጥ ይችላል፡፡

Normal fault; solid circle indicates downthrown side

Oblique-slip fault, normal, inferred

Antiform, defined

Antiform, overturned, defined

Synform, defined

Synform, overturned, defined

▷↳ኋዕበሮር እብ▷አካሮናንጂ

Сдѣлайтесь настолько сильными, чтобы не бояться смерти. Их сила и уверенность в себе поражают. А вы, как я, не можете этого сделать. Но вы можете стать сильнее, чем они. И это возможно.

မရှုပ် မရှုပ်ရင်လှု ပေါင်း၍လဲ။ ပြောသူများ အကောင်းပငါး၊ အကောင်းပငါးရှုစွာ၊ ရောက်လှုရှု ရှုပ် အကောင်းပငါးရှုစွာ ပါ၏။ မရှုပ်ရင်လှု အကောင်းပငါး လျှော့လျော့၍ ပေါင်း၍လဲ။ မရှုပ်ရင်လှု အကောင်းပငါး လျှော့လျော့၍ ပေါင်း၍လဲ။

የጋዢልኩና ስምር እና በንግድ ስራውን የሚከተሉት ደንብ ይፈጸማል

አጥቃሮስና

σ^αρ^γΓ^ε-ρ^θη^ε<γ^δσ^ε ρρ^εγ^ε θρ^ε Δ^εβ^ε>^ε ▷^δαρ^ε<γ^εΓ^ε (δ<Δ^ε-ρρ^εγ^ε) θρ^ε△^εγ^εσ^ε▷^δλ▷^δ Trans-Hudson Orogen (THO), CL^εα<△L▷^δε^εγ^εσ^ε δ^εσ^ε γ^εσ^ε σ^ε▷^δαρ^ε<γ^εΓ^ε b^εα^εγ^ε L▷^δε σ^ε▷^δαρ^ε γ^εσ^ε σ^ε▷^δαρ^ε (Hoffman, 1988). ▷^δα THO δ^ερ^εσ^εδ^εσ^ε ρ^εγ^εε^ε<γ^ε ▷^δα λ^ε▷^δε^εσ^ε▷^δα Nuna supercontinent, δ^ετ^ε sensu lato ΠΠΩδ^εγ^εε^ε▷^δε^ε L▷^δσ^εδ^εσ^ε ▷^δα Manikewan Ocean γ^ερ^εδ^εσ^ε L^εσ^ε δ^εγ^εσ^εγ^ε 1.92-Γ^ε 1.80-Λ^ε Ga. α^εα^εδ^ελ^εγ^ε▷^δα^ε THO θρ^ε▷^δε^ε C^εγ^εγ^εσ^ε▷^δα^ε σ^ε▷^δα^ε δ^εγ^εγ^εγ^ε 1.80-Λ^ε Ga. α^εα^εδ^ελ^εγ^ε▷^δα^ε 120 Myr CL^εα^ε △L▷^δε^ε Δσ^ε L▷^δε^εσ^ε▷^δα^ε σ^ε L^εα^ε ca 1920 ▷^δα^ε 1800 Ma (Corrigan et al., 2009; St-Onge et al., 2009). ρρ^εγ^εγ^ε σ^ε▷^δα^ε b^εα^εγ^ε<γ^εσ^ε, ΠΠL^ε θρ^εδ^εσ^ε δ^εσ^εγ^εγ^ε L^εα^ε α^εα^εδ^εCD^ε▷^δα^ε (δ^εγ^εγ^ε 2). δ^εγ^εσ^εγ^εσ^ε δ^εγ^εγ^εγ^ε▷^δα^ε δ^ερ^εγ^εγ^εσ^ε α^εα^εδ^ε△L▷^δε^εσ^ε▷^δα^ε:

- 1) ഫോഗസ്കോബാട്ട് അറാക്കാലിന ഹസ്റ്റിംഗ്, ചുപ്പചുപ്പള്ളിയിൽ ദർപ്പണക്കുന്നത് ബന്ധപ്പെട്ട ഏസ്റ്റിസ് ഡാം Superior അറാക്കാലിയിൽ സെൻട്രൽ ഇറുക്കാൻ മുൻപു അലാറ്റോബിനു പുരാതന സ്വർണ്ണാക്രസ്റ്റൽ കുർജ് (Povungnituk Group; St-Onge et al., 1996;
 - 2) ഇറുക്കാൻ ഡാം ഫോഗസ്കോബാട്ട് അലാറ്റോബി കുർജ് monzogranitic എൻഡ് granodioritic orthogneiss, ചുപ്പചുപ്പള്ളിയിൽ ദർപ്പണക്കുന്നത് ഏസ്റ്റിസ് അറുക്കാൻ മുൻപു അലാറ്റോബി അറാക്കാലിയിൽ സ്വർണ്ണാക്രസ്റ്റൽ കുർജ് arc-magmatic terrane (Narsajuaq arc; Scott, 1997; St-Onge et al., 2009).

▷ የዚህ ስርዓት ሲሆን በዚህ አገልግሎት ማረጋገጫ ስርዓት ሲሆን በዚህ አገልግሎት ማረጋገጫ (Corrigan et al., 2009);

‘ຝົດກົມບັນ’ 3 ດັລ 4 ຂໍາລັງອ່າວະນຸມ ດັບຕັດໄລ ດັບຕັດໄລ ດັບຕັດໄລ ດັບຕັດໄລ Cumberland batholith, ຊາວ ໄດ້ກົມບັນ ດັບຕັດໄລ ດັບຕັດໄລ ດັບຕັດໄລ ດັບຕັດໄລ ດັບຕັດໄລ ca. 1865–1845 Ma (Whalen et al., 2010). ດັບຕັດໄລ Cumberland batholith ດັບຕັດໄລ ດັບຕັດໄລ ດັບຕັດໄລ Andean-type batholith (St-Onge et al., 2009), ດັບຕັດໄລ ດັບຕັດໄລ ດັບຕັດໄລ ດັບຕັດໄລ lithospheric delamination ດັບຕັດໄລ ດັບຕັດໄລ (Whalen et al., 2010). CLΔ°σ ‘ຝົດກົມບັນ’ ດັບຕັດໄລ ca. 720 Ma basaltic ‘Franklin’ ດັບຕັດໄລ, ປັດໄລ σ ‘ຝົດກົມບັນ’ ດັບຕັດໄລ Ordovician limestone strata (Blackadar, 1967).

‘සේටුරු රුව’ 2-3 ‘නැං ද්බ’ (Soper River) මත් වෙනස් පොදු උග්‍ර අඟලයින් නිර්මාණ ප්‍රතිඵලීය ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය (magmatic arc) ලද රැයි-මෙටා ණක්නිටා ප්‍රතිඵලීය ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය 1845 Ma, ඇත් උග්‍ර ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය (Dunphy and Ludden, 1998), එහි ca. 1842 Ma, ඇත් උග්‍ර ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය ප්‍රාග්‍රෑහීය oldest Andean-type phase (Scott, 1997). ප්‍රාග්‍රෑහීය syn-metamorphic amphibolite-facies ලද ප්‍රාග්‍රෑහීය granulite-facies metamorphic foliation (St-Onge et al., 2007).

‘Bergeron’ 1–2 Superior craton (b) Churchill plate, peri-Churchill collage), 1820 Ma, (Scott and Wodicka, 1998), 1795 Ma, 1995–2000 Ma retrograde amphibolite-facies metamorphism (St-Onge et al., 2000b).

TECTONOSTRATIGRAPHIC Δὲδාභා

Paleoproterozoic metasedimentary 儿b₂-K₂O₂ ▷Na₂O₂ △CaO₂ ▲MgO₂ Ldσ² quartzite, semipelite, pelite, marble, □L greywacke 亂R₂O₂C₂O₂ ▲σ²S₂O₂, enclaves, screens, □L panels □Lσ □L 亂R₂O₂ ▲σ²R₂O₂ ▲σ² Mafic-ultramafic ▉Γ₂O₂ 亂R₂O₂ □C₂O₂S₂O₂ □MgO₂ Ldσ metasedimentary strata.

Archean crystalline basement ($\Delta \text{C}^{\text{b}}\text{d}^{\text{a}}\text{S}^{\text{r}}\Delta$ At–Amm)

Paleoproterozoic metasedimentary ($\Delta\dot{\zeta}\text{ }\delta\text{ }\dot{\alpha}\text{ }\dot{\gamma}\text{ }\Delta$ PLHq-PPL)

Quartzite, semipelitic & L pelite, psammite ($\Delta c^b d^a \gamma \Delta$ PLHq–PLHp)

panels Διάστροβούς < 100 μm monzogranite (Διάγλαφα 3a, b), Αγκάρα Διάστροβούς interbedded psammite, semipelitic, Διάστροβούς pelite (Διάγλαφα 3b). Λεπτή Quartzite Διάστροβούς Διάστροβούς orthoquartzite λεπτή feldspathic quartzite, Διάστροβούς Διάστροβούς Διάστροβούς Διάστροβούς garnet-Γ. Pelite horizons Διάστροβούς assemblage biotite-garnet-sillimanite-K-feldspar-melt (Διάγλαφα 3c), Αγκάρα Κρυσταλλωμένης Ρηγματικής biotite±garnet psammitic Διάστροβούς biotite±garnet±sillimanite semipelitic migmatite. Ηρακληπόλειος βορείου Διάστροβούς 20 vol. % αρρόνιδος λευκόσομο, Διάστροβούς crystallised melt, Διάστροβούς patch to stromatic metatexite textures, Αγκάρα Λεπτή Ldσ-Λεπτή muscovite, Διάστροβούς Ldσ-Λεπτή peak metamorphic conditions Ldσ-Λεπτή muscovite-dehydration (St-Onge et al., 2007; Dyck and St-Onge, 2014). Cordierite Λεπτή metasedimentary assemblages βορείου Διάστροβούς, Διάστροβούς paleopressures Διάστροβούς 6 kbar. Gossanous horizons Λεπτή siliciclastic units, Λεπτή chalcopyrite, graphite, pyrite. Καταστροφή Διάστροβούς 6 μm Λεπτή στρώση, Λεπτή the siliciclastic Διάστροβούς Λεπτή Διάστροβούς Λεπτή Lake Harbour Group Διάστροβούς (St-Onge et al., 1996, 1998; Scott et al., 1997).

Marble and calc-silicate ($\Delta \dot{c}^{\text{b}} \dot{d}^{\text{a}} \dot{s}^{\text{c}} \dot{h}^{\text{b}}$ PLHc)

magnetite, phlogopite, scapolite, spodumene, titanite, tremolite (3e).
 tectonostratigraphically Lake Harbour Group Lda siliclastic units.

Metagreywacke ($\Delta \text{C}_\text{d}^{\text{a}} \text{L}^{\text{a}}$ PPL)

Paleoproterozoic mafic-ultramafic sills (Δὲඩාල්ං ප්‍රාදේවීය මැඩිං සිල්ස්)

Paleoproterozoic metaplutonic suite ($\Delta\text{C}_\text{b}\text{d}^\text{a}\text{r}\Delta$ Pg–Psb)

Gabbro (ဂုဏ်ပေါင်း ပွဲ)

Quartz diorite ($\Delta\dot{\zeta}^{\text{b}}\dot{d}^{\text{a}}\dot{s}^{\text{c}}\dot{v}^{\text{b}}$ Pd)

Quartz diorite հարսելում է Լոգուն, Թաղամակ, Շիրակի շրջանում՝
աշխատավոր պահանջման դեպքում. Այս առաջարկը համապատասխան է բարձր պահանջման պահանջմանը. Այս առաջարկը համապատասխան է բարձր պահանջման պահանջմանը.

Biotite granodiorite ($\Delta\ddot{\cup}\text{ } \dot{\delta}^{\text{a}}\text{ } \dot{\chi}\dot{\nu}^{\text{b}}$ Pgo)

K-feldspar megacrystic biotite monzogranite (ΔC_O なし Pmo, Pms, Pmh)

Biotite monzogranite ($\Delta\dot{\zeta}^{\circ}\dot{d}^{\circ}\dot{u}^{\circ}\dot{s}^{\circ}\dot{e}^{\circ}$ Pmb)

Garnet-biotite monzogranite ($\Delta\dot{\text{c}}\text{b}\dot{\text{d}}\text{a}\dot{\text{c}}\text{e}\text{f}\text{b}$ Pmg)

Garnet-sillimanite leucogranite ($\Delta\dot{c}^b\dot{d}^a\dot{s}^c\dot{h}^d$ PLHw)

Garnet-sillimanite leucogranite հարսնակաց՝ ձևագործ ձաշտած հայելենիկ քաղաքաց լժամանակակից բարձրաց պատճենը հայտնաբերվել է Արտավազ գյուղի մոտակայքում՝ Տավուշի մարզում:

Biotite syenogranite ($\Delta\ddot{\text{c}}\text{ }\ddot{\text{d}}^{\text{a}}\text{ }\ddot{\text{s}}\text{ }\ddot{\text{d}}^{\text{a}}$ Psb)

ՀԴԳԱԾ ՇԱՐՏՈՒԾՆԵՐԸ ԱԼԱՎԱՅՐԸ պեգմատիկ, ՀՇՀՐԱՅԻԼԸ ՀՈՒՅ ՀԱԼԸ biotite syenogranite ԱԼԱՎԱՅՐԸ ՈՒՐՎԼԸ anastomosing dykes ԱԸՆՐԸ ԱՄՐՆԵՐԸ (ՀԱՅԱՍՏԱՆԻ 5f). ԱԸՆՐԸ ԱՄՐՆԵՐԸ Լծկ syenogranite ԱՐԳԱՋՎԼԸ, ԲՎԱԾԸ ԱՄՐՆԵՐԸ ԱԸՆԴՐԱԲՐԱՑՎԱՑՎԵԿԱՑՎԵԿԸ ՀԱԼ ՀՐԱՅԵԿՈՒՅ ԱՐՎԵԾԸ (ՀԱՅԱՍՏԱՆԻ 5a). ԵՅՈՒՅԸ CLԵԾԼ ՃՎԱԾՎԱԾ ԱՅԵԲԵԿԿԵՐԸ > ԼԾԱՆԱ phenocrysts of garnet ՀԱԼ tourmaline.

Basaltic dykes ($\Delta \dot{c}^{\circ} \text{d}^{\circ} \text{N} \Delta$ McD, Nd)

Limestone ($\Delta \dot{\text{c}}^{\text{b}} \text{d}^{\text{a}} \text{l}^{\text{c}} \text{e}^{\text{b}}$ OA)

EQUILIBRIUM PHASE DIAGRAMS

A P-T 值大于 600°C 的样本 (Thériault et al., 2001; Figure 6a) 展示了 monzogranite sample (sample 95-D078B from Thériault et al., 2001; Figure 6a) 中的高方差组合。在 P-T 空间， ΔL° 在 100-150°C 之间表示 metagranitoid rocks， Ld 表示 magnetite ($\text{Ca}_{0.8}\text{Mg}_{0.2}\text{FeO}_2$)， Lp 表示 orthopyroxene ($\text{Mg}_{0.7}\text{Fe}_{0.3}\text{Al}_2\text{Si}_2\text{O}_9$)， Ld 表示 ΔL° 在 100-150°C 时的 sub-solidus conditions。P-T 范围为 $\text{P} > 1 \text{ GPa}$ ， $T < 600 \text{ °C}$ ， $\text{L} < 100 \text{ °C}$ 。该样本显示了高方差组合，表明其形成于高变质条件下。

(<0.2 mol. % H₂O), Ld < silicate & orthopyroxene & magnetite (CaMgSiO₄) & CaAl₂Si₂O₈ (MgO). P-T conditions, Ld < P-T conditions & typical granitoid composition & CaAl₂Si₂O₈ & CaMgSiO₄. Ld < typical granitoid composition & CaAl₂Si₂O₈ & CaMgSiO₄.

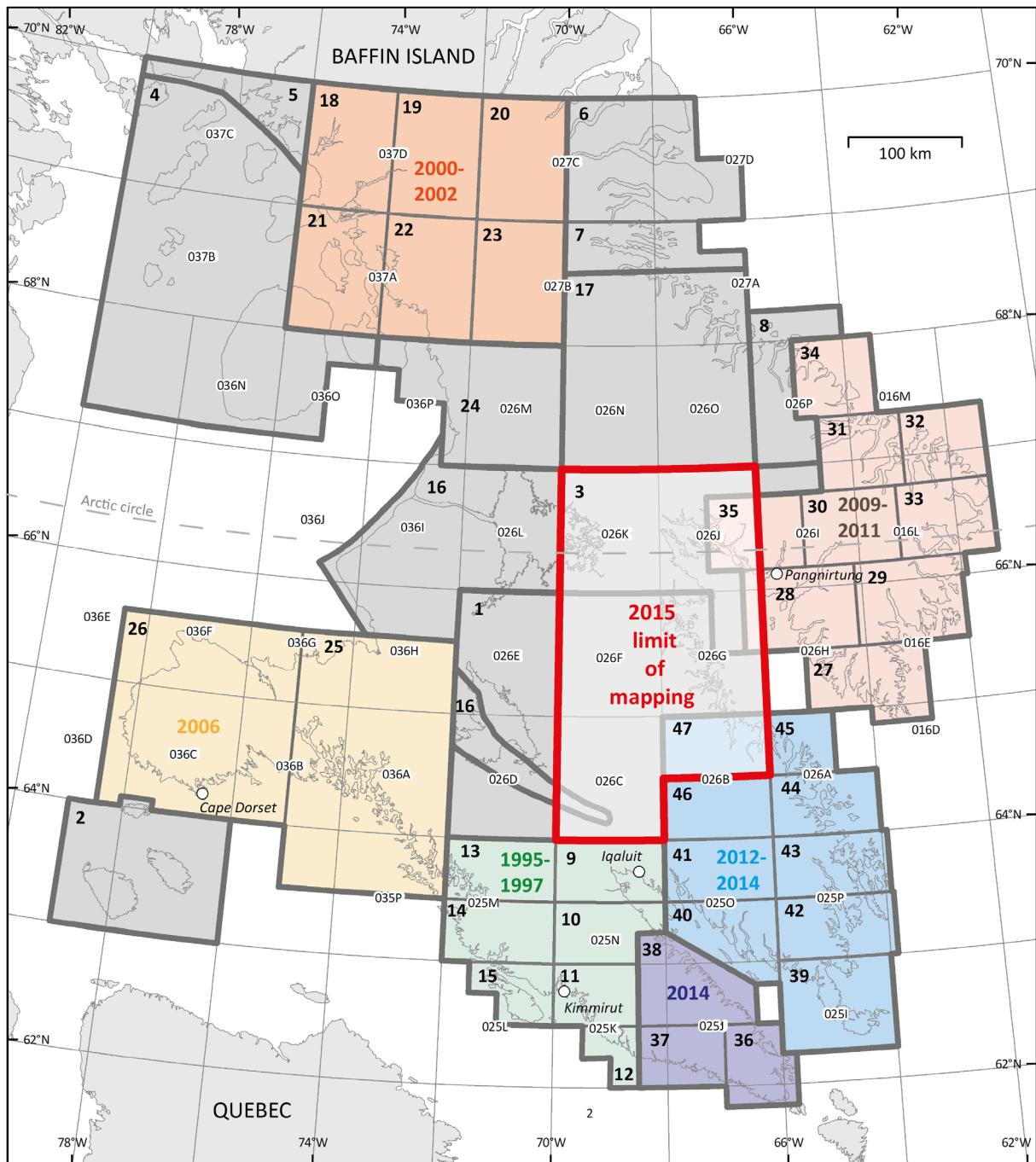
‘b₂Δc[~]σ[~]γ^c Δγ[~]γ<^cΔσ[~]γ^c ΔL Δγ[~]γ^cσ[~]γ^c ‘b₂Δc[~]σ[~]γ^c ΔL[~]bΔ^c
D₁ ‘b₂Δc[~]σ[~]γ^c Δγ[~]γ^c<^cΔσ[~]γ^c ΔL M₁ Δγ[~]γ^c‘b₂Δc[~]σ[~]γ^c ΔL[~]bΔ^c
Paleoproterozoic tectonostratigraphic Δc[~]d[~]s^c σ₂ΔΔ[~]L[~]c^c ‘b₂σ
σ₂ΔΔ[~]CΔ[~]L[~]s^c Δ[~]γ^cΔ[~]σ[~]σ^c γΔL<^cσ[~]σ^c Γc[~]CΓ^c γΔ[~]CΓ^cΔ^c
Δc[~]γ^c ‘d₂σ[~]γ^c (S₁) Δ[~]b[~]σ^c d[~]C[~]γ^c, ΔL σ₂Δ[~]σ[~]σ^c Δ[~]C[~]σ^c ΔL[~]bΔ^c
b[~]σ[~]σ^c Δ[~]σ[~]σ^c supracrustal ΔL plutonic Δc[~]d[~]s^c. metasedimentary strata,-Γ^c S₁ σ₂Δ[~]CΔ[~]γ^c ‘d₂σ[~]γ^c σ^c σ₂Δ[~]σ^c M₁ biotite, sillimanite, ΔL garnet, ‘d₂σ[~]b[~]σ^c C[~]γ^c Δ[~]σ[~]σ^c plagioclase, K-feldspar ΔL quartz, garnet ΔL[~]σ[~]Δ[~]Δ^c Γc[~]C[~]γ^cσ[~]σ^c Δ[~]σ[~]σ^c ΔL C[~]Δ[~]σ[~]σ^cΔ[~]σ[~]σ^c poikiloblastic metasedimentary Δc[~]d[~]s^c, S₁ σ₂Δ[~]CΔ[~]γ^c ΔL[~]bΔ^c Δγ[~]γ^cΔ[~]σ[~]σ^c
Δ[~]σ[~]σ^c Δ[~]σ[~]σ^c Δ[~]σ[~]σ^c (S₀). foliated mafic-Γ^c ΔL felsic plutonic -σ^c, S₁ σ₂Δ[~]CΔ[~]γ^c Δ[~]σ[~]σ^c Δ[~]σ[~]σ^c Δ[~]σ[~]σ^c ferromagnesian-rich ‘d₂σ[~]σ^c Δc[~]σ^c Δ[~]σ[~]σ^c granoblastic, Γc[~]Cσ^c Δ[~]σ[~]σ^c. M₁ orthopyroxene, biotite, magnetite,

clinopyroxene, hornblende, $\text{Mg} / (\text{Mg} + \text{Fe})$ garnet, $\text{Mg} / (\text{Mg} + \text{Fe})$ clinopyroxene, plagioclase $\text{Mg} / (\text{Mg} + \text{Fe})$ quartz±K-feldspar, orthopyroxene, biotite, clinopyroxene, hornblende $\text{Mg} / (\text{Mg} + \text{Fe})$ S_1 $\text{Mg} / (\text{Mg} + \text{Fe})$ metaplutonic $\text{Mg} / (\text{Mg} + \text{Fe})$ S_1 $\text{Mg} / (\text{Mg} + \text{Fe})$ $Cd / (Cd + Ni)$ axial-planar $\text{P}_0 / \text{P}_1 \sim 100$ m $\text{Mg} / (\text{Mg} + \text{Fe})$ isoclinal $\text{Mg} / (\text{Mg} + \text{Fe})$ $\text{Mg} / (\text{Mg} + \text{Fe})$ S_1 $\text{Mg} / (\text{Mg} + \text{Fe})$ (Dyck and St-Onge, 2014).

D₂ ከብዕስና ስራውን ልማትና በርሃን

ЛРС^с датирана със 1.76 Ga (Lucas and St-Onge, 1992).

የዕለታዊነት የሚያስፈልግበት ሰራተኞች

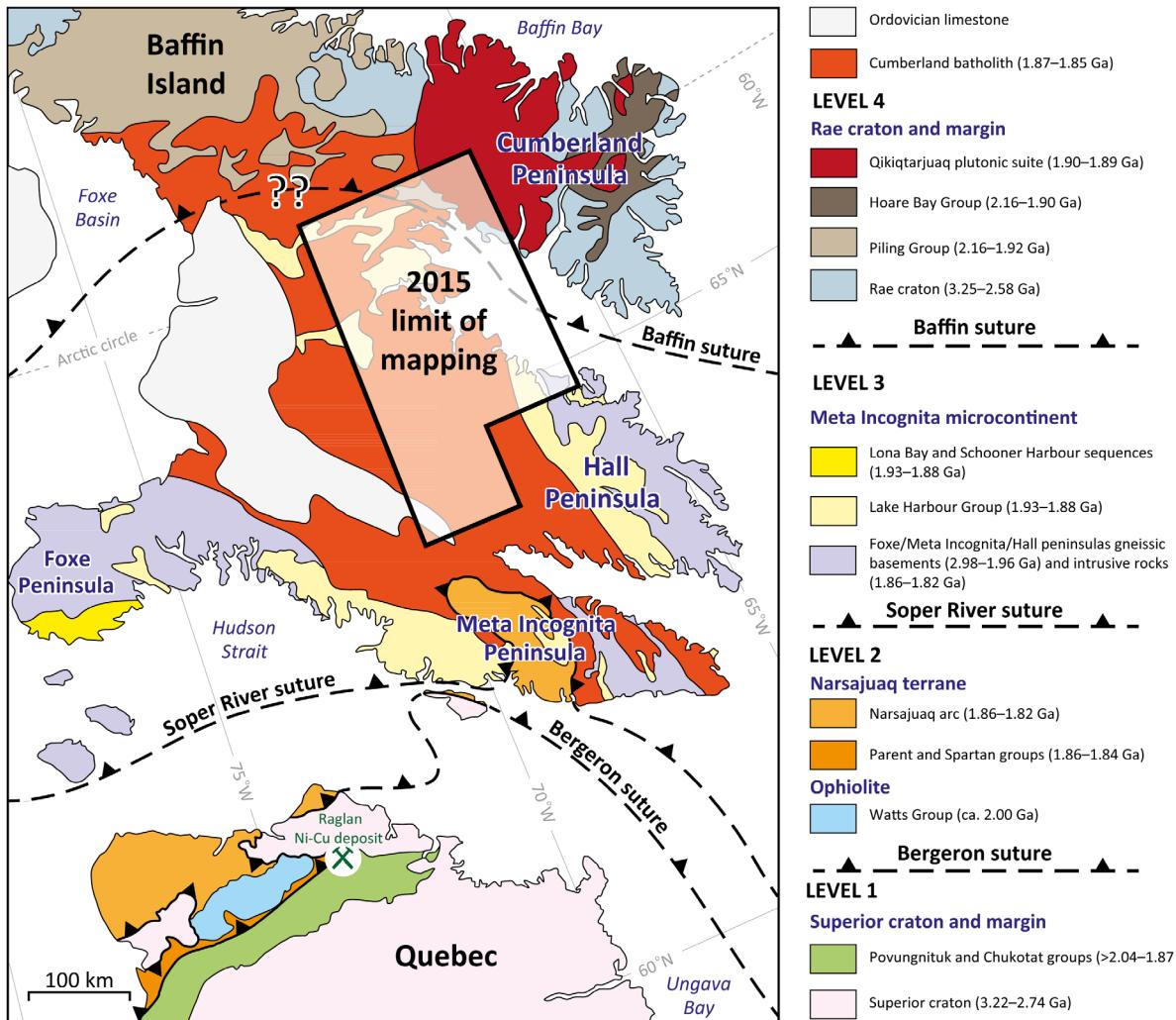


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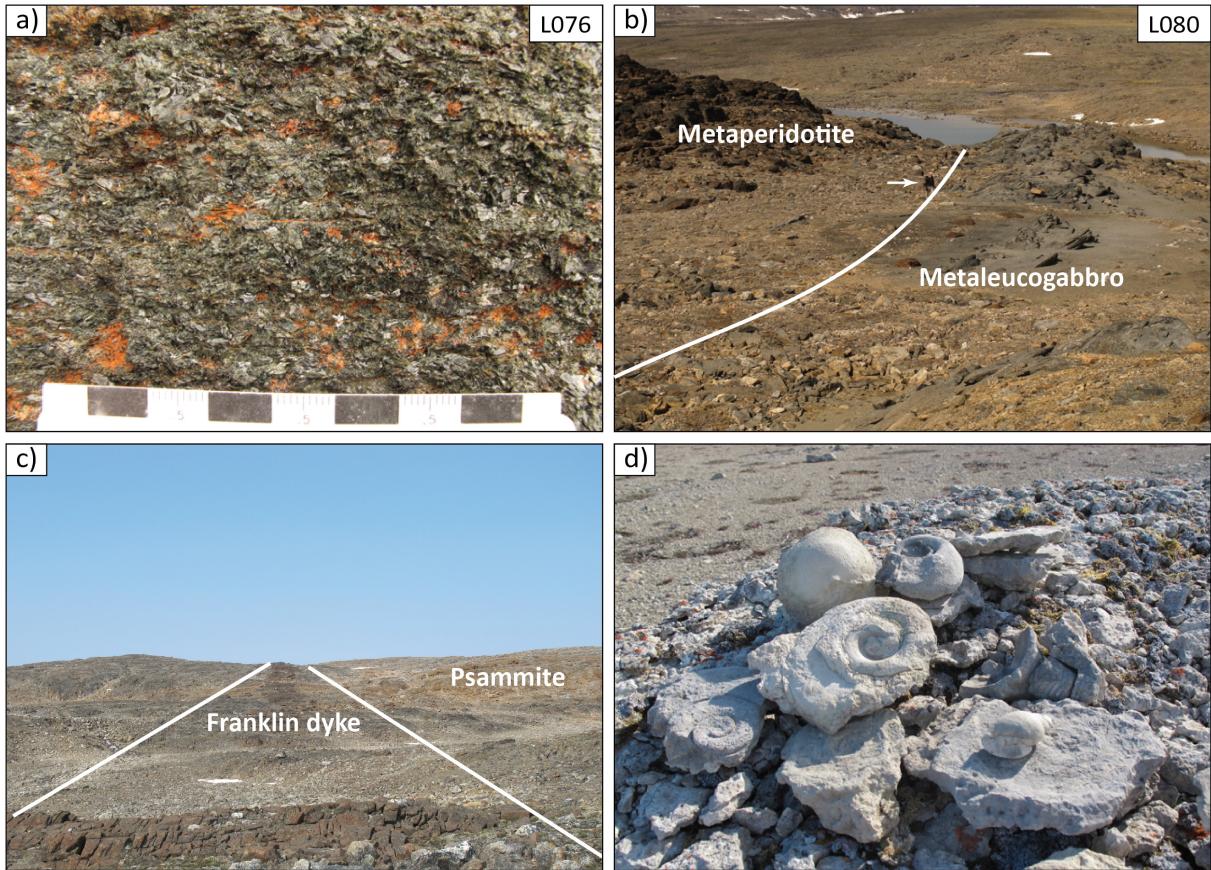
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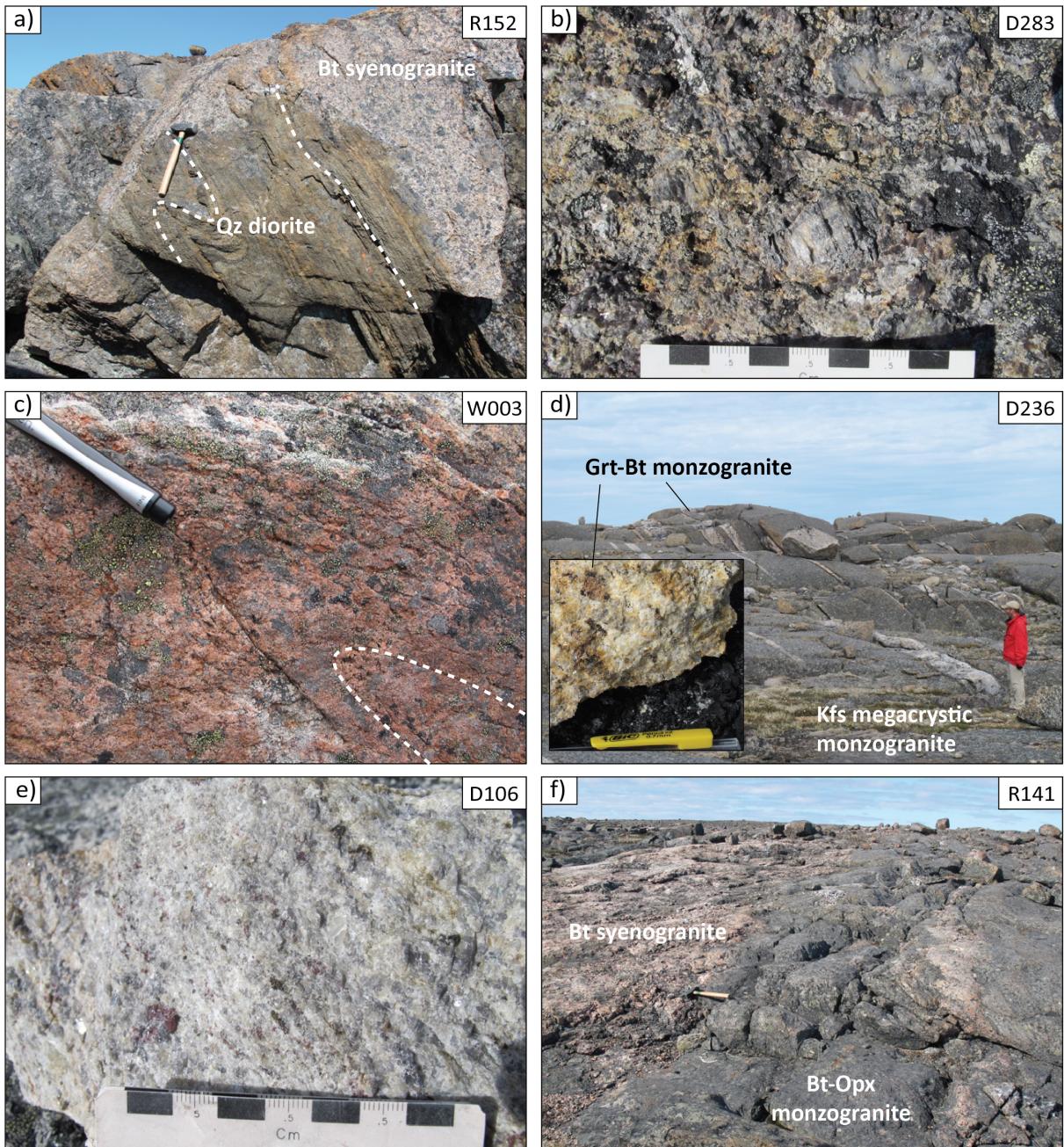


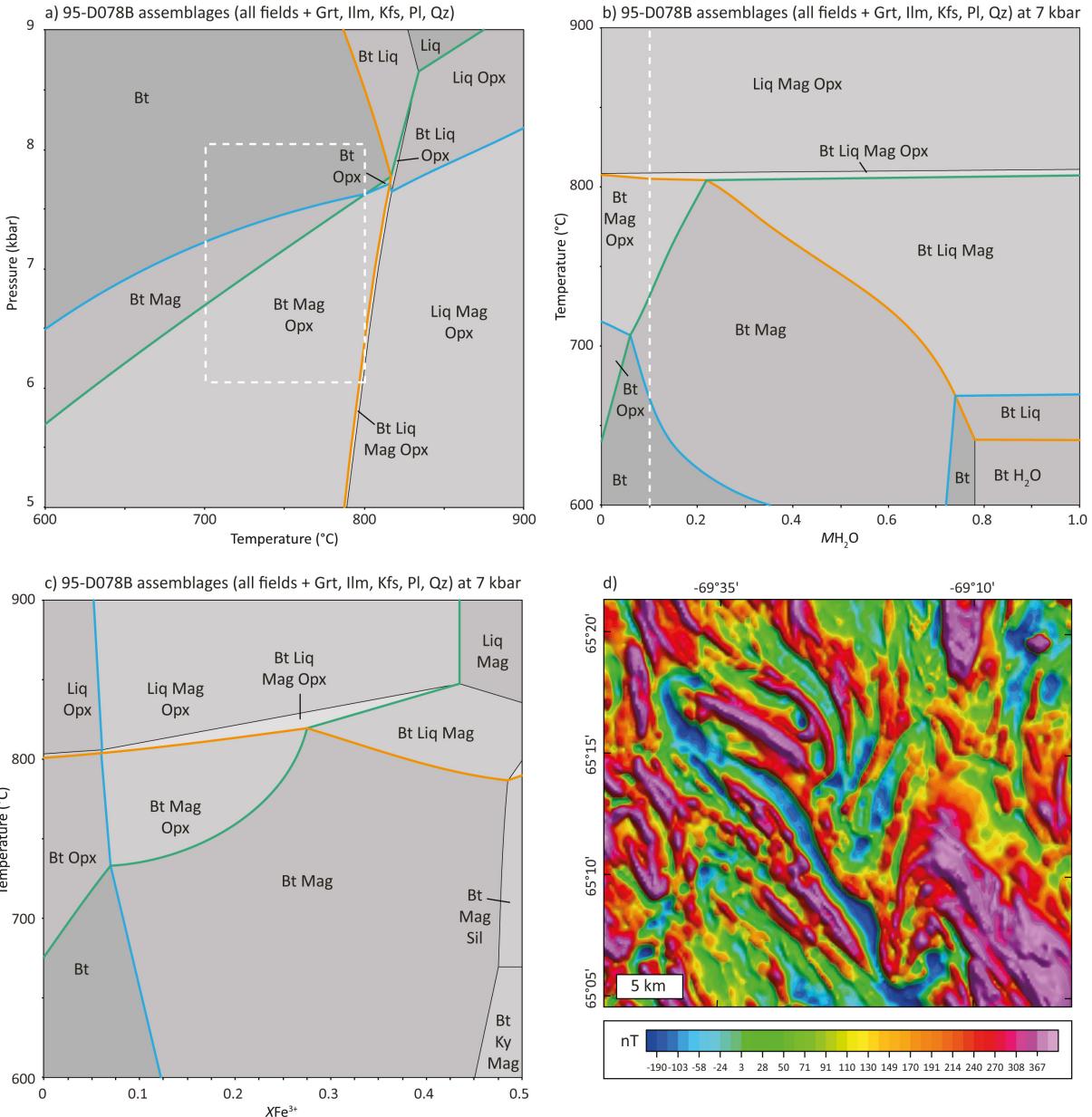


3. ልንጂዣዎች ሲሆን ሪፖርት የሚከተሉት ደንብዎች በመመለከት ነው፡፡ a) 10 m
 thick quartzite bed with biotite- $\text{f}^{\prime}\text{c}$ intergrowths. b) 1-2 cm
 thick quartzite bed with
 biotite-sillimanite intergrowths. c) 1-2 cm
 thick quartzite bed with
 biotite-orthopyroxene monzogranite intergrowths. d) 1-2 cm
 thick quartzite bed with
 biotite-phlogopite intergrowths. e) 1-2 cm
 thick quartzite bed with
 diopside intergrowths. f) metagreywacke bed with
 biotite monzogranite.



4. ດີກົມໍລັດໆ ດີກົມໍຈັກ ດົກະນຸກາຕົກ ດັບຕົກເກົ່າລັດໆ Sylvia Grinnel Lake-Clearwater Fiord-ໄກ໌
ເຕັກຊົງນິຍົງຕັກ, ໂປ້ນົບດັກ ຂໍເຫຼືອນິຍົງຕັກ ຕົກນິຍົງຕັກ ດົກຕົກ ໂປ້ນົບດັກ ເຕັກຊົງນິຍົງຕັກ ດັບຕົກ
15SAB- ນິຍົງຕັກໄຕ່. a) ນິຍົງຕັກ ນິຍົງຕັກ metaclinopyroxenite ດັບຕົກ ດົກຕົກ mafic sill.
ບ) ນິຍົງຕັກ ດັບຕົກ ປັກຕົກ ນິຍົງຕັກ ນິຍົງຕັກ ສົກຕົກ ດັບຕົກ ດົກຕົກ hornblende-ໄຕ່. b)
ຄ) ນິຍົງຕັກ - ດົກຕົກ ດົກຕົກ mafic sill, Cd-NaO-Ur- ນິຍົງຕັກ metaperidotite ດົກນິຍົງຕັກ ນິຍົງຕັກ
metaleucogabbro. ນິຍົງຕັກ ດົກຕົກ (ນິຍົງຕັກ) 1.8 m Cd. c) P-T-Pt diagram psammite
ດົກຕົກ ດົກຕົກ Franklin dyke, ddO-Cd-Ur- ນິຍົງຕັກ Cd-Ur- ດົກຕົກ ດົກຕົກ
P-T-Pt diagram limestone, Cd-NaO-Ur- 10m Cd. d) ນິຍົງຕັກ ນິຍົງຕັກ
Cd-NaO-Ur- 50 cm.





6. 95-D078B assemblages (all fields + Grt, Ilm, Kfs, Pl, Qz) at 7 kbar: a) P-T; b) T- MH_2O ; c) T- $X\text{Fe}^{3+}$; d) magnetic anomalies. Biotite±magnetite±orthopyroxene monzogranite.

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ԱՌԵՎԵԿՆ ԳԵՐԱԲԵՆՆ

«ԱՅսպիհաւ Ես եմ ԿՇՎԸ, Այլ Ես ԵՐԿԻՒԾ ԱՆՌՈՒԵԿ ԹՈՏԸ ԿԵՎԱԾ»
ԿՐԿՆԵԿ ԱՌՈՒԵԿ ԱՆՎԵԿ ԿԴԿՆԵԿ ԵՎ ԵՇԱ:

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ይታ ማኅበር ተስፋዎች

סדרה▶טרכטורי▶: Universal Transverse Mercator

◀▷≡◀▷≡: ḡCAΔc

ՀԱՅԿԱՆԱԿԱՐԱՆ: NAD83

የፌዴራል የፌዴራል

Հայաստանի Հրապարակ: 70°00'00" W

ba^oa^ols^o DPLC: 68°00'00" W

σΓ¤Σσ ካσታ: 64°00'00"N

የብኩራዲስታዊ ልርድ ተናግሮች

ମାଧ୍ୟମିକ ପ୍ରକାଶକ 10.1 ଏଣ୍ଟର୍‌ପ୍ଲଟ୍ସ୍ ଏଣ୍ଟର୍‌ପ୍ଲଟ୍ସ୍ ଏଣ୍ଟର୍‌ପ୍ଲଟ୍ସ୍ ଏଣ୍ଟର୍‌ପ୍ଲଟ୍ସ୍ ଏଣ୍ଟର୍‌ପ୍ଲଟ୍ସ୍

የኢትዮጵያ ፌዴራል የሚያስፈልግ ስምምነት

ԿԱՐԼԾԱ ԽՄԼ ԴԵՅՎԱԼԳԼ ՀԿԱՐԱՎԾ ԼՀԱԾԵՐԿԿ ՀՃԵԾԱ ՆԵՄԱԾԱԾՐԱԾ. ՀԿԱԾԵՐԿԱԾ, ԵՄԱԾՎԾՐԿԱԾ, ՈՈՒՆԵՐԼՀԿ ԱՆԴԵՐԿԿ ՀՃԱԿԱԾ ԵՄԱԾՎԾՐԿԱԾ ԵՄԱԾՎԾՐԿԱԾ.

ՀՃԱԿԱԾ ՀԿԱԾԵՐԿԿ ԵՄԱԾՎԾՐԿԱԾ ՀՃԱԿԱԾ ՀԿԱԾԵՐԿԿ.

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