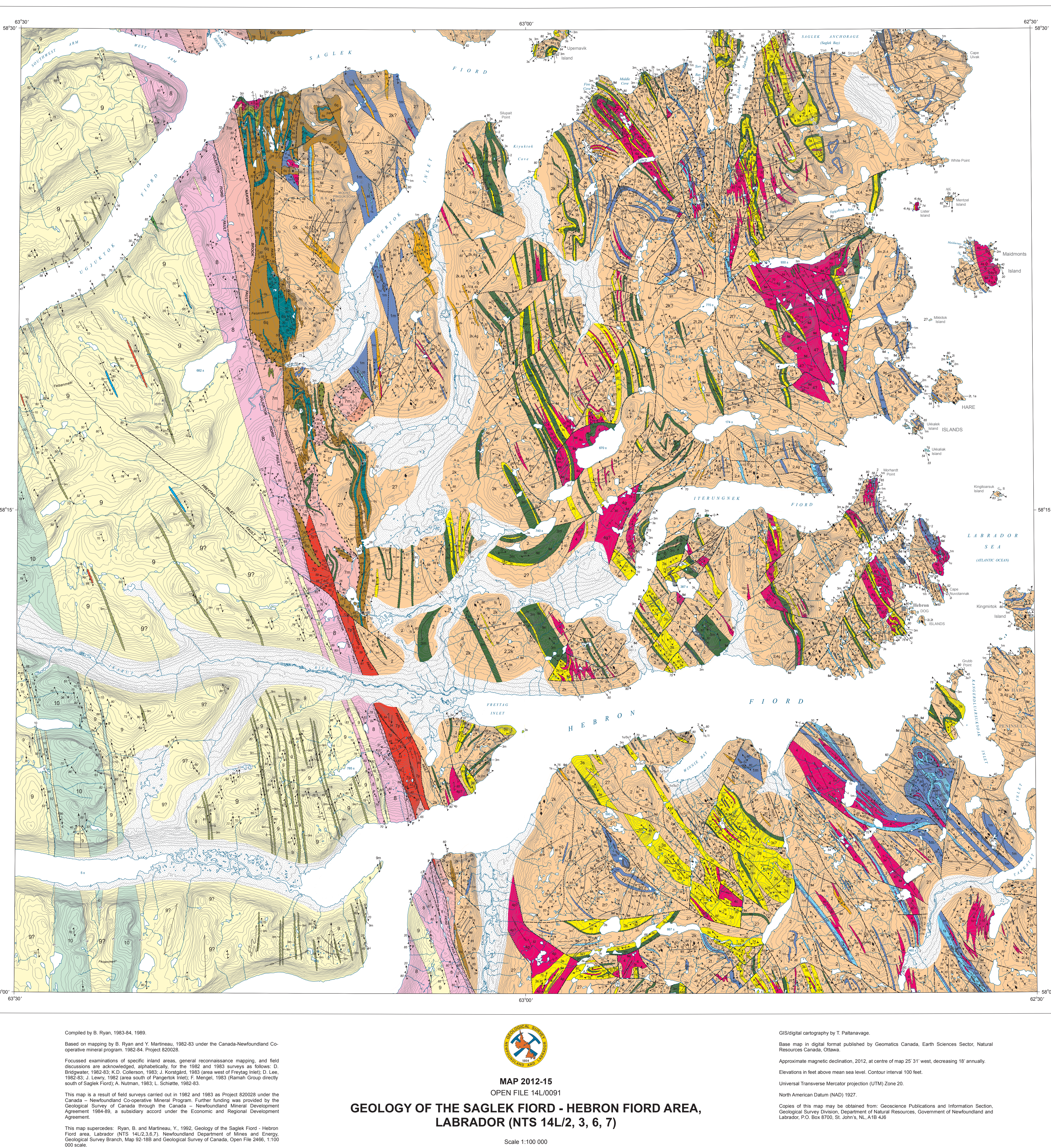


SYMBOLS

- Area of extensive glacial overburden
- Geological boundary (defined, approximate, inferred, highly uncertain)
- Trust (defined, approximate, inferred, trust indicate direction of)
- Fault (defined, approximate, inferred, trust indicate direction of)
- Lineament (from aerial photography or schistosity)
- General trend of schistosity or schistosity from aerial photograph and contour interpretation
- Geologically protected vertical, horizontal, dip unknown
- Bedding, tops unknown (indicated, vertical)
- Bedding, tops known (indicated, vertical)
- Orientation trend of bedding in Ramah Group (from aerial photograph)
- Lineation (horizontal, vertical)
- Antiform, syncline (showing plunge direction)
- Antiform, syncline (showing plunge direction)
- Overturned antiform, syncline (showing plunge direction)
- Fracture cleavage
- Schistosity, horizontal, inclined, vertical, dip unknown (including mylonitic folices in shear and fold zones)
- Second generation schistosity or overthrust cleavage where more than one fabric present
- Plunge of small fold (sense of symmetry when viewed along plunge direction)
- Four axial plane (inclined, vertical, dip unknown)
- Fold of limb bedding on the outcrop surface (Ramah Group)
- Zone of ultramylonite (see pseudotachylite)
- Agmatite schists in gress
- Intersected areas with high degree of uncertainty
- Kyanite, sillimanite and staurolite localities in Ramah Group
- Pseudotachylite localities
- Blebbly texture in gneisses and granites (obs as an expression of the deformation of amphibolites or garnet)
- Granulite facies mineral preserved
- Granulite facies mineral preserved but with pervasive retrogression
- Amphibolite facies, no indication of earlier granulite assemblage in thin section (with both of the Archaean assemblages and Hudsonian overprint on Archaean rocks)
- Nebulosity or grain boundary in gneisses
- Inclusions within quartzofeldspathic gneisses and granitoids (Schistosity in gneisses and areas having numerous small faults)
- Ultramylonite rock
- Various paragneisses (C-metachert and Fe-formation)

LEGEND

- ONEISSES OF THE CHURCHILL PROVINCE (TORNGAT OROGEN)**
- ARCHEAN AND EARLY PROTEROZOIC**
- 10 Brown to greenish grey weathering quartzofeldspathic granulite, locally gneissiferous
 - 9 Tasiyuq gneiss. Coarse-grained dioritic and associated pegmatites, lesser mafic granulite; coarse-grained, medium to fine grained, mafic gneiss. The Nain Province contains a variety of felsic gneisses containing thin layers rich in sillimanite and graphite, characterized by a distinct, coarse to medium grained, subhorizontal, quartz lineation
 - 8 White-weathering granuliferous gneiss, pink granite and white-weathering pegmatite, locally having graphic texture
 - 7a Rusty, garnet + biotite + sillimanite gneiss
 - 7b Grey to black quartzite
 - 6 Black-weathering, homogeneous to layered, gneissiferous mafic and ultramafic gneiss
 - 5 Brown to buff, to grey-weathering, well-sorted, granular facies, quartz-feldspathic mafic gneiss to typically mylonitic and has an associated intrusion; garnet to felsic protomylonitic; mafic granulite lenses and clots; uniform ultramafic and mafic granulite units are a major component of this unit
 - 4 Porphyritic, grey, hornblende-talco, probably equivalent to 4p
 - 3a White-weathering massive to foliated granite
 - 3b Grey to greenish-grey weathering, biotite + epidote + muscovite-bearing quartz-feldspathic gneiss
 - 2 Black to dark green-weathering amphibolite, locally contains relicts of orthopyroxene
 - 1a Porphyritic, grey, hornblende-talco, probably equivalent to 4p
 - 1b White-weathering massive to foliated granite
- SEDIMENTARY AND IGNEOUS ROCKS OF THE NAIN PROVINCE AND ITS REACTIVATED MARGIN**
- 6 Ramah Group. Quartzite, graphitic shale, siliceous, dolomitic sandstone, minor conglomerate. The Ramah Group is a sequence of arenitic and pelitic sedimentary rocks and basic sills that unconformably overlies the Archaean gneisses and mafic dykes (19). The depositional contact with the basement is well preserved north of Sagkeg Fjord. Structural observations suggest that it may also be present in the inaccessible facies and felsenmeer-scarred mountain tops immediately south of the fjord.
 - 5a Mafic dykes of variable character, probably representing several discrete periods of basaltic magmatism
 - 5b Domes mafic dyke swarm. Database dykes of at least two generations, mildly altered in eastern part of area, but progressively metamorphosed westward; igneous microstructures preserved in dykes in western one-third of Nain Province
 - 4a Schistose amphibolite dykes (metadiabase, metabasite, diorite), commonly associated with the Ramah Group
 - 4b Biotite dykes, brown-weathering dykes containing numerous gneissic and dioritic inclusions
 - 3a Orthopyroxene-bearing gabbro/diorite dykes
 - 3b Mafic dykes of variable character, probably representing several discrete periods of basaltic magmatism
 - 2a Domes mafic dyke swarm. Database dykes of at least two generations, mildly altered in eastern part of area, but progressively metamorphosed westward; igneous microstructures preserved in dykes in western one-third of Nain Province
 - 2b Schistose amphibolite dykes (metadiabase, metabasite, diorite), commonly associated with the Ramah Group
 - 2c Biotite dykes, brown-weathering dykes containing numerous gneissic and dioritic inclusions
 - 2d Orthopyroxene-bearing gabbro/diorite dykes
- ONEISSES AND ASSOCIATED INTRUSIVE ROCKS OF THE NAIN PROVINCE**
- ARCHEAN**
- 1a Granulite rocks of several generations, in part including intrusions equivalent in age to the Uluks gneisses. These rocks are at contact to the part of the 3800 to 3300 Ma Uluks gneisses and their reworked equivalents (4.5), although other, but quite similar, quartzofeldspathic rocks (harze gneisses) have been identified by isotopic studies (K.O. Colerson, University of Queensland, Brisbane, personal communication, 1991). The Uluks gneiss (0.8) is a coarse-grained quartzofeldspathic suite derived from plagioclase gneisses (1.0) to 3.0 Ma. Subsequently, they were partially intruded by amphibolite- and granulite facies intrusions between 2800 and 2700 Ma (9). The Uluks gneisses have been divided into two types: Uluks I, over-grained tonalitic and granodioritic rocks (2); and Uluks II, medium-grained mafic gneisses (10). A layered gabbroic body (3) exposed on the north shore of Mental Island may be a more basic member of Uluks I (10). Both are of age older than 3000 Ma. Uluks I, over-grained tonalitic and granodioritic rocks (2), exposed on the north shore of Mental Island may be a more basic member of Uluks I (10). Both are of age older than 3000 Ma. Uluks I, over-grained tonalitic and granodioritic rocks (2), exposed on the north shore of Mental Island may be a more basic member of Uluks I (10). Both are of age older than 3000 Ma.
 - 1b Rusty-weathering, garnet + biotite + sillimanite cordierite paragneiss, commonly having a layer parallel to slightly discordant network of gneissiferous isogradsic veins and dykes
 - 1c Rusty-weathering, mafic gneiss + biotite + sillimanite cordierite paragneiss, commonly having a layer parallel to slightly discordant network of gneissiferous isogradsic veins and dykes
 - 1d Grey to dark brown-weathering, locally nodular, mafic and calc-alkalic gneiss
 - 1e Dark green to black-weathering, massive to well-bedded, locally gneissiferous amphibolite and mafic granulite
 - 1f Black, brown, and yellow-orange weathering ultramafic rocks, including variably serpentinized olivine, peridotite and pyroxenite
- PROTEROZOIC**
- 2a Quartzofeldspathic gneisses of variable character, ranging from diffusely layered, weakly mylonitic, to highly mylonitic, to over- to post-tectonic. The gneisses are composed of several generations. These rocks include the 3800 - 3300 Ma Uluks gneisses and their younger derivatives, and also gneisses that cannot be confidently correlated with the Uluks gneisses
 - 2b Grey, pink and brown, layered tonalitic to granodioritic gneiss and mafic gneiss. Uluks I gneiss contains abundant inclusions of Nain mafic dykes (19). It is intruded by transgressive Sagkeg mafic dykes, but more commonly the dykes form subhorizontal mafic layers and lenses due to late Archaean deformation and metamorphism
 - 2c Rusty-weathering, garnet + biotite + sillimanite cordierite paragneiss, commonly having a layer parallel to slightly discordant network of gneissiferous isogradsic veins and dykes
 - 2d Grey to dark brown-weathering, locally nodular, mafic and calc-alkalic gneiss
 - 2e Dark green to black-weathering, massive to well-bedded, locally gneissiferous amphibolite and mafic granulite
 - 2f Black, brown, and yellow-orange weathering ultramafic rocks, including variably serpentinized olivine, peridotite and pyroxenite
- UPPERMANGROVE SUPRACRUSTALS**
- 3a Grey to white weathering, banded, clinopyroxene-bearing metachert
 - 3b Massive to thin-banded, magnetite iron formation, usually associated with 1c, but also with 1a
 - 3c Grey to black, biotite + sillimanite-rich paragneiss
 - 3d Grey, massive to diffusely banded, quartzite and biotite + garnet quartzite
 - 3e Grey, massive to diffusely banded, quartzite and biotite + garnet quartzite
 - 3f Massive to finely layered mafic rocks, likely of both intrusive and extrusive origin
 - 3g Massive to finely layered ultramafic rocks, likely of both intrusive and extrusive origin; associated with 1m and an independent unit
 - 3h Grey-green weathering, orthopyroxene + biotite-bearing quartzofeldspathic gneiss



EXPLANATORY NOTES

(Detailed numbers in parentheses refer to references listed in "Suggested Reading")

The survey area is accessible by boat, helicopter or fixed-wing aircraft. The nearest community is Nain, 230 km to the south of St. John's. Access roads are limited to a few gravel roads leading to the community of Hebron, at the entrance to Hebron Fjord, was abandoned in 1959, but is occasionally the summer 'back' for fuel tankers from the Nain. The Nain Province is a large area of the eastern part of the Labrador Peninsula, extending from the community of Hebron, at the entrance to Hebron Fjord, to the north-western shore of the Hebron River. The Nain Province is a large area of the eastern part of the Labrador Peninsula, extending from the community of Hebron, at the entrance to Hebron Fjord, to the north-western shore of the Hebron River. The Nain Province is a large area of the eastern part of the Labrador Peninsula, extending from the community of Hebron, at the entrance to Hebron Fjord, to the north-western shore of the Hebron River.

The map depicts the geology of the boundary between the Archaean Nain Province and the eastern fringe of the southern arm of the Early Proterozoic Churchill Province. Here, the Churchill Province consists of rocks deformed during development of the Torngat Orogen, a 100-km wide tectonometamorphic zone resulting from oblique convergence of the Nain Province and coeval crustal blocks, now represented by the rocks to the west, ca. 1800 to 1600 Ma (7). The effect of the Early Proterozoic tectonism on the Nain Province can be evaluated from its impact on the 2400 to 2200 Ma Domes mafic dyke swarm and on the foliated Early Proterozoic Ramah Group supracrustals, the latter originally forming unconformably upon the western margin of the Nain Province in this area.

NAIN PROVINCE GNEISSES AND GRANITES

The Archaean rocks of Nain Province constitute the early reactivated foreland of the Torngat Orogen, but, except for a structural overprint along its western margin near the Ramah Group, the Nain Province has not been severely reworked during Early Proterozoic tectonism. The Nain Province comprises predominantly quartzofeldspathic gneisses derived from intrusive protites, interlayered with ultramafic belts of supracrustal rocks derived from sedimentary and volcanic successions (2, 4, 5). Petrographic ages indicate an accretionary history ranging from >3800 to 2500 Ma. The northern part of the Archaean block can be conveniently divided across the Hebron Fjord into an amphibolite facies zone to the east, and a granulite facies zone to the west. Major tectonic units can be correlated on both sides of the fjord and the two terranes are interpreted to represent different structural levels of the same crustal components (2). Metamorphic grade in the eastern side of the Hardy Fault increases to granulite facies southward from Tigiyaquik Inlet, a result of the isoclinal coverment on the fault.

The earliest gneissic components are small (10 to 10² m²) rhyolite and more numerous belts (10 to 0.5 km) of Archaean mafic and ultramafic intrusions and extrusive rocks, magmatic iron formation, calc-alkalic rocks and pelitic gneisses, known collectively as the Nain mafic gneisses (19). The Nain mafic assemblage is clearly older (>3800 Ma) than the regional grey gneisses, forming an anastomosing, generally north-south-trending network of narrow, elongated belts. The Nain mafic gneisses are generally younger than the regional grey gneisses. The largest belts appear to be bounded by tectonic contacts resulting from structural modification of normal intrusive contacts between the Hebron and Uluks areas. The Nain mafic assemblage is also reworked by a swarm of metastatic dykes, the Sagkeg dykes, and is broken and varied by granitoid intrusions and associated mafic and Uluks Archaean rocks.

Sediments of the Nain assemblage included both chemical and igneous rocks such as cherty iron formation, and clastic deposits such as shales and slates. These are now represented, respectively, by quartz + hematite-bearing magnetite rocks and quartz + magnetite + biotite + garnet + sillimanite gneisses. The largest belt of Nain iron formation (1) occurs on the south shore of Pangnirtung Peninsula. The largest belt of Nain iron formation (1) occurs on the south shore of Pangnirtung Peninsula. The largest belt of Nain iron formation (1) occurs on the south shore of Pangnirtung Peninsula.

RAMAH GROUP

The Ramah Group (Unit 6) is a sequence of arenitic and pelitic sedimentary rocks and basic sills that unconformably overlies the Archaean gneisses and mafic dykes (19). The depositional contact with the basement is well preserved north of Sagkeg Fjord. Structural observations suggest that it may also be present in the inaccessible facies and felsenmeer-scarred mountain tops immediately south of the fjord.

The Ramah Group along the southern shore of Sagkeg Fjord and to the west of Mt. Pinguak is composed largely of interbedded white, grey and buff quartzite, brown dolomite, minor gabbro and mafic dykes (19). The Ramah Group is a sequence of arenitic and pelitic sedimentary rocks and basic sills that unconformably overlies the Archaean gneisses and mafic dykes (19). The depositional contact with the basement is well preserved north of Sagkeg Fjord. Structural observations suggest that it may also be present in the inaccessible facies and felsenmeer-scarred mountain tops immediately south of the fjord.

The Ramah Group narrows in outcrop southwards from Sagkeg Fjord, is entirely subdued by tectonic dykes, and is increasingly tightly folded and metamorphosed (4, 5). An extensive area of the Ramah Group is the Nain mafic gneisses (19). The Ramah Group is a sequence of arenitic and pelitic sedimentary rocks and basic sills that unconformably overlies the Archaean gneisses and mafic dykes (19). The depositional contact with the basement is well preserved north of Sagkeg Fjord. Structural observations suggest that it may also be present in the inaccessible facies and felsenmeer-scarred mountain tops immediately south of the fjord.

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