



- LEGEND
Relative ages of the units for the most part are uncertain and no chronological order is implied.
QUATERNARY
Q Glacial, fluvial, and marine deposits
PALEOPROTEROZOIC
Pgr Primrose Point granites, monzogranitic; biotite-bearing, massive to weakly foliated, pink to ash-ton coloured, equigranular to porphyritic; may contain disseminated magnetite and ilmenite; south and southeast of Bute Lake (where they are well exposed)
Pgd Primrose granodiorite-monzogranite; pink to grey, weakly to well foliated
Pgr, Pgd Phlogopite amphibolites and mafic dykes
Pgd Chaberte dykes
Pgm Straight gabbro, mylonite; principally derived from tonalite to granitic protoliths; Bute Lake (Bute) and Akunak Bay (Akunak) shear zones (hatched units) include other lithologies; in part include relictive hornblende straight gabbro and mylonite
Pgd Chaberte dyke swarm (comparable to ca. 2.18 Ga MacQuoid dykes); predominantly east-trending; in part (e.g. near Bute Lake) mylonitic; weakly east-west and north-south trending
ARCHEAN AND/OR PALEOPROTEROZOIC
A'gb Gabbro; massive to weakly foliated, coarse grained; includes subvolcanic ultramafic rocks, pyroxenite
A'di Chlorite to gabbro; weakly to well foliated
A'Uck Uck complex; layered amphibolite-mafic granulate-gabbro suite cut by dykes (hatched); for the most part composed of hornblende amphibolite or gabbro; includes Archean chlorite and amphibolite
ARCHEAN
Atp Gabbro (massive); massive to well foliated; in part locally well foliated (E-trending); may contain fine grained disseminated magnetite
At Gabbro (mylonite); layered to banded hornblende-biotite orthogneiss; includes discontinuous layers of amphibolite/mylonite (As); may contain abundant xenoliths of mafic rocks (A'g); and remains of oceanic floor formation
A'g A'gabbro; augen granite-granodiorite; well foliated; in part mylonitic
Am Amphibolite
A'di Chlorite to gabbro (massive)
Av Mafic volcanic rocks with subordinate intercalated subvolcanic rocks; rarely preserved as thin pillow; in part metamorphosed to garnet amphibolite and amphibolite schists
As Metasedimentary rocks; amphibolite/mylonite with garnet; biotite amphibolite; mylonite; mafic schist; amphibolite; local metamorphosed quartz-magnetite banded floor formation
Outcrop (observed)
Lithological boundary (approximate)
Limit of geological mapping
Main tectonic generation unspecified
Mineral lineation (generation unspecified)
Fold axis (generation unspecified)
Fold axis (D1, S, Z-tide; unknown generation)
Fault (approximate trace inferred)
Axial trace of major fold (F1, antiform, system)
Axial trace of major fold (F2, antiform, system, direction of plunge)
Axial trace of major fold (F3, antiform, system, direction of plunge)
Axialite
Kyn Kynenite
Sillinite
Gt Garnet
Cpx Clinopyroxene
Opx Orthopyroxene
Glossar
Phe/Phen/Amphibole
Gabbro
Dolomite
Mafic volcanic rocks
Granitoid/Quartz monzodiorite
Tonalite
Amphibolite
Mylonite, straight gabbro

INTRODUCTION
This is a geological map of the Akunak Bay area, Nunavut, Canada. The map covers an area of approximately 100 km by 100 km. The map is based on field observations and data collected during the 1990s and 2000s. The map shows the distribution of various geological units, including the Primrose Point granites, Primrose granodiorite-monzogranite, Chaberte dykes, and various gabbros and amphibolites. The map also shows the location of various faults and folds. The map is intended for use by geologists and other professionals in the field of geology.

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GEOLOGY
PARTS OF AKUNAK BAY AREA
KIVALLIQ REGION
NUNAVUT
Scale: 1:50 000/Echelle 1:50 000
Geology by S. Tella, J.J. Ryan, H.A. Sandeman, E. Hamner, and L. Wilkinson, Geological Survey of Canada, A. Mills, Department of Earth Sciences, Carleton University, 1999.
Co-authored by E. Hamner through the auspices of the Western Churchill NATMAP Project.
Digital cartography by E. Everett, Geoscience Information Division.
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada.
Digital base map from data compiled by Geomatics Canada, modified by the Geoscience Information Division.
The proximity of the North Magnetic Pole causes the magnetic declination to vary rapidly in this area. Magnetic declination 2000, 6°44'W, increasing 2.7° annually.
Elevations in metres above mean sea level.
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OTTAWA
SHEET 1 OF 2
FEUILLE 1 DE 2