

- PALEOPROTEROZOIC**
- Diabase dykes: medium to coarse-grained diabasic dykes, 5 to 50 m wide, trending 290° to 325°. Dykes constitute part of the Klotz swarm (2710 Ma).
- ARCHEAN**
- LEPILLE IGNEOUS COMPLEX**
- Agdl** Orthopyroxene-clinopyroxene-granodiorite: medium to coarse-grained, massive, foliated or gneissic orthopyroxene-clinopyroxene-biotite granodiorite containing abundant inclusions (0.1 to 10 to 100 µm) of mafic gneiss and less common paragneiss.
  - Adl** Orthopyroxene-hornblende diorite: medium-grained, massive to weakly foliated clinopyroxene-hornblende diorite, quartz diorite.
- UTSALIK DOMAIN**
- INTRUSIVE ROCKS**
- Ag** Biotite + Hornblende Granite: medium to coarse-grained, homogeneous, massive to weakly foliated granite. The unit generally contains (6-10%) biotite, with some hornblende-bearing phases. Megacrystic phases containing up to 30% pink K-feldspar phenocrysts up to 2 cm are common. A megacrystic unit was dated at 2719 ± 1 Ma (U-Pb zircon age). Unit includes some pegmatite.
  - Agd** Hornblende-biotite Granodiorite: medium-grained, homogeneous, massive to weakly foliated hornblende-biotite granodiorite, quartz diorite and rare diorite. Unit contains rare cognate xenoliths of gabbro and diorite. Pyroxene is present locally as cores to hornblende. A granodiorite has a maximum age of 2720 ± 2 Ma (U-Pb zircon age).
  - At** Biotite Tonalite: medium-grained, homogeneous, foliated biotite tonalite, cut by abundant massive granitic dykes.
  - App** Orthopyroxene-clinopyroxene Granite: medium to coarse-grained, homogeneous, massive to weakly foliated orthopyroxene-clinopyroxene-biotite +/- hornblende granite. Variably equigranular or K-feldspar megacrystic (to 1.5 cm) phases. Grades to granodiorite.
  - Agdp** Orthopyroxene-clinopyroxene Granodiorite: medium to coarse-grained, homogeneous, massive to weakly foliated orthopyroxene-clinopyroxene-biotite +/- hornblende rocks ranging in composition from monzonite, through granodiorite, to quartz diorite. Grades to granite through K-feldspar megacrystic (to 2 cm) phases. Aligned phenocrysts in massive matrix suggests magmatic flow.
  - Agb** Pyroxene gabbro: medium to coarse-grained, homogeneous orthopyroxene-clinopyroxene-hornblende gabbro with local anorthositic pods.
  - Adx** Diatexite: medium to coarse-grained orthopyroxene-biotite +/- garnet +/- orthopyroxene granodiorite with abundant variably disaggregated paragneiss enclaves.
- SUPRACRUSTAL ROCKS**
- Ap** Paragneiss: medium-grained, biotite-plagioclase-quartz +/- garnet +/- cordierite +/- sillimanite +/- orthopyroxene rocks with migmatitic layering on 1-10 mm scale. Probably derived from psammitic and pelitic protoliths. The unit grades to homogeneous diatexite.
  - Afs** Felicit Schist: fine to medium-grained, homogeneous, intensely foliated biotite-plagioclase-quartz +/- hornblende +/- garnet schist. Probably derived from felsic to intermediate metavolcanic and metasedimentary rocks.
  - Ard** Rhyolite-Diabase: fine-grained, homogeneous biotite-muscovite-quartz plagioclase rocks with well developed foliation and sporadic lineation. Contains local relict quartz phenocrysts and gossan zones with up to 9% disseminated pyrite. Dated at 2742 ± 1 Ma (U-Pb zircon age). Grades to felsic schist.
  - Aa** Andesite: fine-grained homogeneous hornblende-biotite plagioclase rocks, with variably developed foliation and hornblende mineral inclusions. Contains local relict plagioclase phenocrysts and fragmental textures suggestive of tuff breccia. Grades to felsic schist. Associated with coarse clastic metasedimentary units.
  - Am** Amphibolite, Mafic Gneiss: fine to medium-grained hornblende-biotite plagioclase rocks, with well developed foliation and sporadic lineation. Contains patches with relict gabbroic textures. Grades to fine to medium-grained weakly foliated gneissic orthopyroxene-clinopyroxene-hornblende-plagioclase rocks. Includes rare peridotite orthopyroxene-biotite suite (At, Agd, Ag).
- Geological contact, approximate**
- Fault**
- Limit of mapping**
- Shear zone: dextral, sense unknown**
- Minor fold: Z S U geometry**
- Mineral or stretching lineation (simple and composite)**
- Foliation (simple and composite)**
- Igneous layering**
- Gossan, gold value, ppb**
- U-Pb age site**
- 2742 ± 1 Ma (zircon); 2698 ± 5.5 Ma (titanite)
  - 2720 ± 2 Ma (zircon maximum age)
  - 2719 ± 1 Ma (zircon)

Geology by J.A. Percival, T. Skulski, and L. Nadeau, 1996

Digital cartography by J.A. Fratt, Geoscience Information Division

Electrostatic plot produced by Geoscience Information Division

Any revisions or additional geological information known to the user would be welcomed by Geological Survey of Canada

Digital base map from data compiled by Geoscience Canada, modified by Geoscience Information Division

Copies of the topographic maps for this area may be obtained from Canada Map Office, Natural Resources Canada, Ottawa, Ontario, K1A 0G9

Magnetic declination 1997, 29°37'W, decreasing 11.1' annually. Readings vary from 29°25'W in the SE corner to 30°26'W in the NW corner of the map.

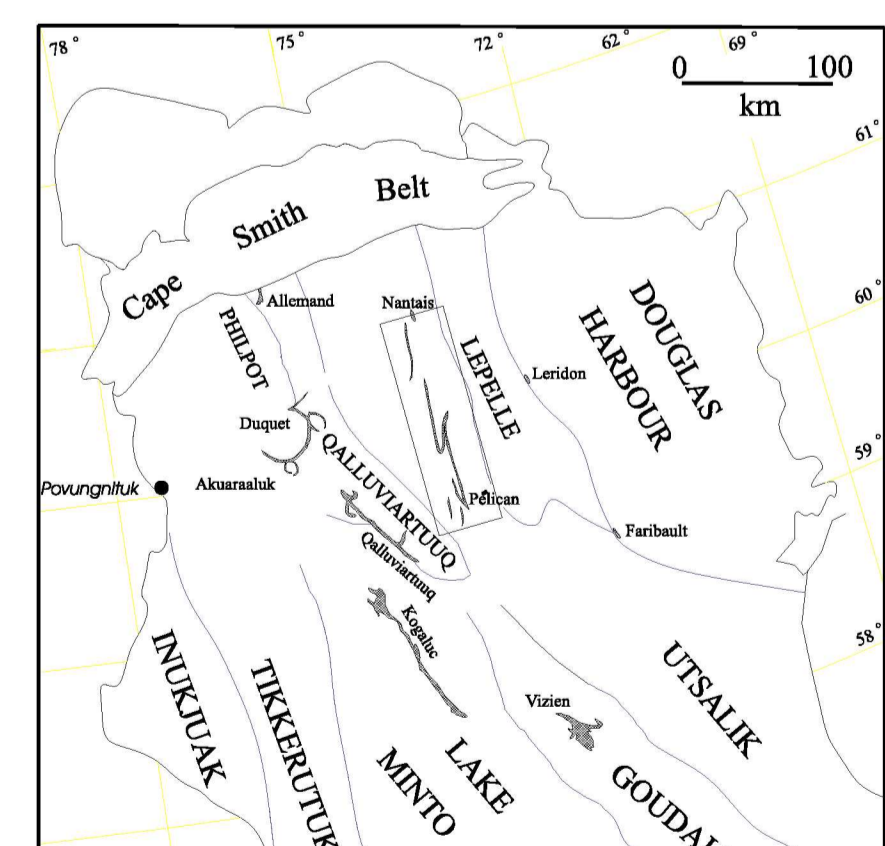


Figure 1: Location of the Pelican-Nantais map area (outlined) and other greenstone belts of the Minto block referred to in the text.



Figure 3: Sources of information: A: compiled from field notes and representative samples from Percival, J.A., Skulski, T., and Nadeau, L. (1996); B: compiled from field notes and representative samples from Stevenson (1966) with spot checks (1995 and 1996).

The Uthique Peninsula of Quebec is one of the last frontiers of reconnaissance investigation in the Superior Province. On the basis of helicopter-supported reconnaissance mapping (Stevenson, 1966), the region was considered to consist of high-grade plutonic rocks devoid of supracrustal successions or mineral potential. However, more recent reconnaissance-scale maps and geochronology (Percival and Carr, 1994; Percival et al., 1995b; 1996b) have revealed greenstone belts of similar age and origin to those of the northern Superior Province (Percival et al., 1994). This remote, largely unexplored part of the shield contains a geological record that is important for assessing the mineral potential of the region as well as contributing to the tectonic framework for the Superior Province. For example, radiogenic isotopic studies (e.g. Stern et al., 1994; Skulski et al., 1996) have demonstrated the widespread influence of proterozoic (3.0-2.8 Ga) crust in the formation of ca. 2.7 Ga magmatic rocks of the Minto block.

Granitoid rocks are dominant in the Minto block (Fig. 1). The supracrustal rocks provide a wealth of information on geological evolution, as well as being the focus of mineral exploration. Previously considered to be isolated supracrustal remnants in a sea of granite (Stevenson, 1966), the supracrustal rocks form belts of significant strike length (40-100 km) and width (1-10 km), e.g. Percival et al., 1995a and Doucet (Percival et al., 1996). The greenstone belts occur within a central north-northwest trending corridor ("Goudalie trend"; Fig. 1), marked by low aeromagnetic anomalies, and flanked by magnetically high igneous pyroxene-bearing plutonic rocks. East-south-eastward, the belts are separated by wide granitoid masses, are magnetically low troughs, including one that contains the newly defined Pelican-Nantais supracrustal belt. The information presented on the map was acquired during a two-week field season in 1996. Work was hampered by poor weather conditions and by the reason parts of the area (Fig. 3) were completed from existing maps, supplemented by spot checks.

**REGIONAL GEOLOGICAL SETTING**

The Minto block has been divided into several north-west-trending tectonostratigraphic domains (Fig. 1; Percival et al., 1997). Involving domains in the west consists of granite with metasedimentary cover. The 1966a domain consists of plutonic rocks with ages of 2707-2693 Ma (Percival et al., 1992). Further east, Lake Minto domain contains sediment-dominated supracrustal remnants, including the Kogaluk greenstone belt (2702 Ma), in a composite plutonic terrain of calc-alkaline granodiorite (2780, 2725 Ma), peraluminous granodiorite (2725-2696 Ma) and monzogranite (2690 Ma; Percival et al., 1992; Stern et al., 1994; Skulski et al., 1996). The composite Goudalie domain consists of tonalitic rocks (3010-2900 Ma) and the Violette greenstone belt, itself a composite of oceanic and continental arc fragments, assembled at ~2700 Ma (Skulski and Percival, 1996; Lin et al., 1996). Utsalik domain to the east, consists of calc-alkaline granodiorite and granite with ages in the range of 2768-2764 Ma. Further east, Douglas Harbour domain is dominated by ca. 2800-2780 Ma plutonic rocks (Parrish, 1989).

Extrapolation of aeromagnetic anomalies (Fig. 2) indicates continuation of domains, including the supracrustal belt, to the north. The Goussier (Percival et al., 1995a) and Doucet (Percival et al., 1996) greenstone belts occur within the Goudalie aeromagnetic trend, but have low geological characteristics of the Goudalie domain. Recent work indicates the presence of the Utsalik domain to the north, west of the Goussier belt. The Utsalik domain is a 200 km wide magmatic province, and includes a zone of ca. 2.8 Ga juvenile volcanic and intrusives rocks (Skulski et al., 1996). In 1996, mapping was extended north of the Lac Coudre map sheet (Percival et al., 1996b) to include the Pelican-Nantais region (Fig. 3), in order to (1) determine the eastern extent of juvenile, 2.8-2.7 Ga rocks of the Goussier domain; (2) assess its relationship to equivalent-age (2.8-2.7 Ga) rocks in the Douglas Harbour domain; and (3) establish the extent of the intervening Utsalik domain. Reconnaissance maps (Stevenson, 1966; Taylor, 1982) and industry geologists active in the region reported scattered occurrences of supracrustal rocks in these areas. The 1996 field season and subsequent compilation established the geometry of the 220 km long Pelican-Nantais belt.

**PELICAN-NANTAIS REGION**

**UTSALIK DOMAIN**

**Supracrustal rocks (Am, Aa, Ard, Ats, Ap)**

Supracrustal rocks occur as < 5 km-wide, north-trending septs enclosed by hornblende-biotite and pyroxene-bearing granitoid rocks. Although highly foliated and metamorphosed to amphibolite and granulite facies, primary volcanic and sedimentary features are preserved locally.

A < 2 km-wide belt of dominantly mafic intrusions is present in the northern part of the region, between Nantais and Klotz lakes. The mafic intrusions include (1) rhyolite and diabase, (2) rhyolite and diabase, and (3) mafic dykes. The mafic intrusions have a well developed, vertical, north-south foliation and a steep hornblende elongation lineation. The belt contains minor lenses of orthopyroxene, as well as some quartzite, porphyry and rare pods of peridotite. Metamorphic grades range from greenschist to amphibolite facies. Amphibolite facies (amphibole-muscovite) near Nantais Lake, to granulite facies (orthopyroxene-clinopyroxene-hornblende) near Klotz Lake, in a 6 km-wide extension north of Nantais Lake. Taylor (1982) reported hornblende amphibolite with rare plagioclase and fragmental textures and metagabbro with minor calcareous beds. A 3 x 0.1 km enclave of granulite-facies mafic gneiss (Am) is also present in plutonic rocks of Pelican Lake.

Metavolcanic rocks of felsic to intermediate composition (Aa, Ard) and associated metasedimentary schists are present in a 3 x 15 km belt in the eastern Pelican-Nantais region. A number of primary structures are preserved in the east-central Pelican-Nantais region: (1) rhyolite and diabase, (2) rhyolite and diabase, (3) orthopyroxene-biotite and (4) mafic dykes. The mafic dykes are generally well developed, vertical, north-south foliation and a steep hornblende elongation lineation. The belt contains minor lenses of orthopyroxene, as well as some quartzite, porphyry and rare pods of peridotite. Metamorphic grades range from greenschist to amphibolite facies. Amphibolite facies (amphibole-muscovite) near Nantais Lake, to granulite facies (orthopyroxene-clinopyroxene-hornblende) near Klotz Lake, in a 6 km-wide extension north of Nantais Lake. Taylor (1982) reported hornblende amphibolite with rare plagioclase and fragmental textures and metagabbro with minor calcareous beds. A 3 x 0.1 km enclave of granulite-facies mafic gneiss (Am) is also present in plutonic rocks of Pelican Lake.

**Rocks of sedimentary origin occur both in association with volcanic units and as discrete, magmatic belts up to 3 km wide. Although dominantly psammitic, sedimentary facies range from conglomerate to quartzite and diorite, the latter being common north of Becard Lake. Metamorphic grades vary from amphibolite to granulite facies; the highest grades are orthopyroxene-bearing granulite and diatexite. The metasedimentary units are characterized by a prominent steep foliation and migmatitic layering.**

**Intrusive rocks (At, Agd, Ag, Agdp, App)**

Two main suites of intrusive rocks are recognized in the region, distinguished by the presence or absence of pyroxene-bearing granitoid rocks. The units occur mainly in discrete outcrops, although gradational relationships between the two suites occur within some bodies in the southern Pelican-Nantais area.

**Pyroxene-bearing suite (Agdp, App)**

Pyroxene-bearing plutonic rocks are common in an area extending from south of Pelican Lake to north of Klotz Lake. They range in composition from monzonite, through granodiorite (Agdp) and monzogranite, which are the predominant phases. The granodiorite, quartz monzonite and monzogranite phases are homogeneous, medium to coarse-grained and weakly foliated. Aligned phenocrysts of K-feldspar and pyroxene in hornblende matrix rocks suggest that the foliation is the product of magmatic flow. Mafic minerals (orthopyroxene, clinopyroxene, biotite, magnetite, hornblende) constitute up to 20% of rocks in the composition range. Pyroxenes vary in habit from fresh phenocrysts to reworked cores in hornblende. K-feldspar occurs as megacrysts up to 2 cm in length in proportions up to 25%. A unique pyroxene-bearing gabbro (Agb) is also present in the western part of the map area. It contains diffuse anorthositic pods and is cut by pyroxene-bearing granodiorite. Pyroxene-bearing granite (Agd) (orthoclase sensu stricto) occurs as zones within large plutons and as discrete pegmatite dykes.

**Hornblende-biotite suite (At, Agd, Ag)**

Plutons of hornblende-biotite granodiorite (Agd), biotite tonalite (At) and biotite granite (Ag) are common throughout the region. The granodiorite is homogeneous, medium-grained and generally weakly foliated. Pyroxene is present locally in cores of hornblende and biotite grains. Compositions vary gradationally to quartz diorite and diorite with increasing mafic content and to granite with increasing proportions of K-feldspar. Rare enclaves of diorite and patches of probable cognate origin are present within some bodies. Several varieties of granite are recognized: K-feldspar megacrystic (to 3 cm) units occur as tabular bodies, often wider than they are thick and 30-50 m long, oriented in the same direction as the foliation; mafic gneiss (Am) is also present in plutonic rocks of Pelican Lake. A large body of homogeneous, foliated, medium-grained biotite tonalite (At) southeast of Nantais Lake is cut by thin dykes of massive, leucocratic pink granite and pegmatite.

**Correspondence of lithologic and aeromagnetic patterns**

A general correspondence is evident between pyroxene-bearing granitoid rocks and positive aeromagnetic anomalies (Fig. 2; GSC NO-19-M; NF-17-18-M), but some magnetic anomalies have no apparent lithologic control. For example, a distinct magnetic gradient in central Pelican-Nantais Lake occurs within homogeneous hornblende-biotite granodiorite. Supracrustal units generally correspond to low aeromagnetic anomalies. However, not all low anomalies are caused by supracrustal belts, and some are commonly several times wider than the exposed width of supracrustal units. Magnetic patterns are useful as first-order guides to lithology, but valid interpretation requires systematic ground control.

**Structure**

The structural chronology of the Pelican-Nantais region is comparable to that of belts in the "Goudalie trend" (Lin et al., 1995; Percival et al., 1995a, 1996a). Supracrustal units occupy narrow linear zones and are characterized by prominent, possibly composite, tectonic fabrics.

A dominant north-south trending, steep, penetrative foliation (S) and sporadic down-dip mineral lineation (L) characterize supracrustal and some plutonic units throughout the region. Where preserved, bedding is parallel to the S. Foliation, the fabric, varies from a pronounced, mineral alignment foliation in schists and foliated plutonic units, through to migmatitic layering in paragneiss. Mafic units in the north have a strong, locally phyllicitic, fabric. In general, the foliation in all units is defined by biotite and hornblende alignment. Garnet porphyroblasts overgrow migmatitic layering in paragneiss north of Becard Lake. In the east-central part of the map area, supracrustal units and foliated megacrystic granite (2719 Ma) are deformed into a complex, igneous-scale fold interference pattern with flattened mushroom geometry. Shallowing lineations (L) and minor folds (F<sub>2</sub>) were developed in the eastern fold closures (73°25', 59°43', 73°25', 60°17') and suggest a fold plunging 45°-60° east-northeast in the eastern fold closures and 40°-75° east-southeast in the south. Well developed, lineations in these, high grade rocks may be composite D<sub>2</sub> to D<sub>3</sub> fabrics.

closure of the fold (near 73°37', 59°47', 73°38', 60°02') are poorly defined owing to disruption by plutonic units and water cover in Becard and Pelican lakes. Metamorphic grade varies significantly within the regional-scale fold structure, with dominant granulite facies on the western limbs and amphibolite facies on the east. Based on the map-scale geometry, the fold is either a F<sub>1</sub>-F<sub>2</sub> interference structure, or a regional F<sub>2</sub> sheath fold resembling that reported in the Kogaluk belt (Lin et al., 1995). The relative ages of rock units and structures were established in the vicinity of the map-scale fold. A tentative chronology, subject to verification by further geochronology, includes: (1) deposition of the supracrustal belt (2742 Ma); (2) emplacement of hornblende-biotite granodiorite (2720 Ma) and sheets of megacrystic granite (2719 Ma); (3) deformation and (4) D<sub>2</sub> folding. Metamorphism of supracrustal units was probably protracted, related to the numerous plutonic emplacement events.

Lake, subtle faults with northerly trends are evident from observed, episodic, chlorite altered sites in their valley walls. Some zones, particularly in the central part of the map area, correspond to apparent offsets of aeromagnetic patterns.

**LEPILLE IGNEOUS COMPLEX**

The large (200 x 40 km) plutonic complex (Lepelle Ignéus Complex) east of the Pelican-Nantais belt corresponds to a prominent positive aeromagnetic anomaly (Fig. 2; GSC NO-19-M; NF-17-18-M). Observations on its western margin, as well as Stevenson (1966) map, indicate predominantly granodioritic compositions, with some granite and granite gneiss. The relatively mafic, coarse-grained plutonic rocks are dominated by pyroxene-bearing assemblages. A 5 km-wide western marginal zone contains up to 40% granulite facies enclaves (on to 5 m scale) of probable supracrustal origin. The generally north-south-trending mafic, diorite and paragneiss enclaves have a gneissic to migmatitic fabric (S) that was folded by open F<sub>2</sub> folds prior to incorporation into the large massive granodiorite and granite of the Lepelle complex, which may be comparable in age to the pyroxene-bearing granulite schist in the Pelican-Nantais area to the west. The Lepelle complex is separated from the Douglas Harbour aeromagnetic high by the east by a north-trending aeromagnetic low (2705-2050) containing amphibolite facies supracrustal belts (Percival et al., 1997).

**DIABASE DYKES**

Diabase dykes trending west-northwest (285°-305°) at a width of 90 m in the region. They range from fresh (pyroxene-plagioclase) to altered (chlorite, epidote) and commonly have irregular trends with pronounced bends through 30° of strike. A U-Pb zircon age from a site south of Klotz Lake is 2720 ± 1 Ma (K.C. Bush and J.K. Mortensen, unpublished data).

**REGIONAL STRUCTURE AND CORRELATIONS**

The regional aeromagnetic pattern (GSC NO-19-M; NF-17-18-M; Fig. 2) of broad (40-100 km) positive anomalies and intervening narrow (10-20 km) troughs reflects the contrast between relatively mafic plutonic rocks, particularly pyroxene-bearing varieties, and relatively less magnetic supracrustal belts and adjacent plutons. On a regional scale, geochronologic studies of pelitic assemblages in supracrustal belts yield metamorphic pressures of 2.5-4.5 kb, whereas high-grade enclaves in plutonic masses indicate higher values (5-6 kb; Percival and Bernier, 1996), suggesting uplift through higher metamorphic grades.

The relationship between supracrustal belts and structural sequences in different domains is the subject of ongoing study. Volcanic and plutonic rocks of the Calluvartian domain (2840-2776 Ma) and tonalitic rocks of the Goussier domain (2900-3010 Ma) are clearly older than the supracrustal and plutonic rocks of the Pelican-Nantais belt (2742-2719 Ma). The boundary is cryptic and probably located within the ca. 90 km-wide region of Utsalik domain granitoid rocks separating the supracrustal belts (Percival et al., 1995a). Plutonic rocks in the 2720 Ma range within the Pelican-Nantais region may also represent part of the Utsalik domain plutonic suite. Although the Calluvartian and Douglas Harbour domain contain units of similar age, they are separated by younger units of the Pelican-Nantais belt and Lepelle complex, suggesting the supracrustal belts were deposited earlier (Percival et al., 1996). The Pelican-Nantais region may also represent part of the Utsalik domain plutonic suite. 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