

The Foxe and Committee Fold Belts extend in an east-northeast direction from southern Melville Peninsula to Central Baffin Island. They are composed of granitoid gneissic rocks enclosing metamorphosed sediments and volcanic rocks of Archean age overlain by metamorphosed rocks of Early Proterozoic age of the Penninny and Pilling Groups. These fold belts suffered polyphase deformation and metamorphism mostly during the Hudsonian Orogeny. Generation and emplacement of plutonic rocks preceded, accompanied and followed deformation. Diabase dykes of presumed Late Proterozoic age cut older rocks.

The Archean rocks form a basement complex predominantly of granitoid gneiss (Aggn) layered quartz-feldspathic gneiss (Ag) and foliated gneiss (Agf, Ag2 and Ag3), within which are relatively minor amounts of amphibolite (Am) and metasedimentary and metavolcanic rocks of the Prince Albert Group. The gneissic and plutonic rocks are largely quartz monzonitic to granodioritic in composition. Leucocratic and mafic (A) varieties are common but do not constitute a large volume of the complex. Gneissic layering and mineral foliation formed of biotite and hornblende are ubiquitous but not always clearly visible. Metavolcanic (Amv), metabasite (Mab) and metasedimentary (AmS, AmSD, AmF, AmG) rocks occurring as discontinuous zones and lenses within the basement complex of the Foxe Fold Belt are correlated with the Prince Albert Group of the northwesternly adjacent Committee Fold Belt on the basis of considerable lithological similarity. The stratigraphy of that part of the group within the Foxe Fold Belt is unknown but it has been described by Campbell (1974) and Schau (1975a) within the Committee Fold Belt. A lensoid sill of anorthositic gabbro (Ab) and layered amphibolite (Amf), as well as possibly related amphibolite dykes (AmD) may intrude or be genetically related to the group.

Amongst the gneissic rocks of the complex are presumed to be some that form the basement to the Prince Albert Group but unconformable relationships are inferred because of the clear lithologic contrast and the common presence of orthoquartzite units with rare felspathic grit and hematite-cast conglomerate beds lying upon a variety of rock types in the complex.

Metamorphism in the Foxe Fold Belt produced the assemblages garnet-biotite-sillimanite and cordierite-sillimanite-garnet in paragneiss and in marble. Biotite-cordierite-calcite as well as scapolite and a white mica mineral. In pelitic and semi-pelitic rocks, the reactions: muscovite-quartz → sillimanite-K feldspar and andalusite → sillimanite are indicated. Retrograde, or later low grade metamorphism is probable because of extensive alteration of high grade minerals.

Polyphase structures indicating numerous episodes of deformation of the basement complex, the Prince Albert Group and the Penninny Group exist throughout the two fold belts but are not necessarily sequential relationships among them are rare. The earliest deformational phase is inferred to have affected the basement complex prior to deposition of the Penninny Group. Tectonic trends in the basement complex and the Prince Albert Group within the Foxe Fold Belt are for the most part conformable with those of the overlying Penninny Group and pre-Penninny structures are not readily distinguishable. Structures in the Committee Fold Belt have been described by Campbell (1973, 1974), Frisch (1974), Resor, J.E., Hutcheon, J.E. and Schau (1973, 1974, 1975a, 1975b). Some deformation of the Prince Albert Group may have also preceded deposition of the Penninny Group.

A second phase of folding, the earliest observed in the Penninny Group, is believed to have formed attenuated isoclinal folds and antiforms. In all but a few outcrops this folding is parallel to bedding. Repeated deformation suggests that the trend of early Penninny structures may have been northerly. The effects of this folding episode on the Penninny Group remain problematical, but may have resulted in some of the observed discontinuity of units described above.

Later episodes of folding produced prominent N60- and NE-trending folds that impose an east-northeast structural grain on the Foxe Fold Belt. Tight to nearly isoclinal recumbent structures are folded by later nearly coaxial, more open, upright to overturned folds. These later folds can often be observed to have deformed earlier structures.

In numerous places gneissic bodies of the basement complex can be seen to lie on and possibly within the Penninny Group. Such relationships suggest either the presence of large allochthonous nappes or smaller scale, locally overturned folds and thrust faults. The time of movement of the basement masses is uncertain but as they are folded about northerly trending axes, they are presumed to have been emplaced during the early deformation of the Penninny Group.

North to northeasterly trending broad transverse flexures alter the plunges of pre-existing folds. Few mesoscopic structures associated with this phase were observed. It may be related to syn- and post-tectonic plutonic intrusions. Steeply dipping fractures and faults, many with northerly and northeasterly trends are evidence of the last major phase of deformation. Most fault displacements appear to be left lateral and east-side-up. Minor evidence of east-west faulting that may have affected Late Proterozoic diabase dykes (Hd) has been observed.

Metamorphism is believed to have accompanied all phases of deformation up to the late northeasterly trending open folding. It possibly reached its zenith during the preceding northeasterly-trending isoclinal phase, but mineral recrystallization outlasted much of the penetrative deformation. Retrogressive metamorphism may have accompanied latest folding episodes or been post-tectonic. Contact metamorphic aureoles are likely present around post-tectonic granitic plutons (Ag).

Massive and foliated plutonic rocks (Ag1, Ag2, Ag3, Ag), chiefly of hornblende and biotite granodiorite, quartz monzonite and granite intrude the basement complex and the Penninny Group. Foliated plutonic rocks, except where observed to have intruded the Penninny Group, are assigned to the complex. Where intrusive into the group (Ag) they are considered to be pre- or syn-tectonic to the main phases of deformation. Common local generation of pegmatite and leucocratic granitic rock (AgL) is believed to be coeval with deformation also. Massive, orthoquartzite plutons (AgO) intruded the Penninny Group after cessation of deformation.

Available results of radiometric analyses indicate formation of the basement complex prior to 2500 Ma ago, with some events occurring possibly as late as 2300 Ma (R.K. Winkless, personal communication, 1976). Acid volcanic rocks of the Prince Albert Group on the west side of Melville Peninsula have yielded a preliminary

- PHANEROZOIC**
PROTEROZOIC
OSc BUFF AND LIGHT GREY DOLOMITE
- LATE(?) PROTEROZOIC**
Hdn BROWN WEATHERING, DARK GREEN TO BLACK, FINE TO MEDIUM GRAINED PYROXENE DIABASE.
- EARLY PROTEROZOIC**
Amh and younger(?)
Ag ORANGE AND BROWN WEATHERING, WHITE, TAN AND GREY, MASSIVE AND FOLIATED, MEDIUM TO COARSE GRAINED, BIOTITE AND HORNBLENDE GRANODIORITE, QUARTZ MONZONITE, GRANITE AND LEUCOCRATIC EQUIVALENTS. SOME PORPHYRYTIC VARIETIES. PEGMATITE COMMONLY CONTAINING QUARTZ, FELDSPAR, BIOTITE, RARELY TOURMALINE. PRE- AND POST-TECTONIC PLUTONS ARE NOT DIFFERENTIATED. INCLUDES ZONOLITHS OF OLDER UNITS.
- INTRUSIVE CONTACT**
- APHEBIAN PENNYN GROUP**
Amq GREY, FINE TO MEDIUM GRAINED, THIN TO THICK BEDED, QUARTZ-FELDSPAR-BIOTITE-EPIDOTE AND/OR ANDALUSITE(?) PORPHYROBLASTS; MUSCOVITE; METAGREYVACKES.
Amr BLACK, FISSILE, VERY FINE GRAINED, "SOOTY" FELTITE.
Amf GREY, FINE TO MEDIUM GRAINED, THIN TO THICK BEDED, QUARTZ-BIOTITE-FELDSPAR-BIOTITE-EPIDOTE AND/OR ANDALUSITE(?) PARAGNEISS AND MINOR SCHIST. MINOR CORDIERITE-BEARING GRANITE. INCLUDES SOME INTERBEGS OF UNITS Amq, Amr AND Amf.
Amnb UNITS Amf AND Amq; INTERBEDDED, GRADATIONAL AND UNDIFFERENTIATED.
Amc GREY AND GREY-GREEN, MEDIUM TO COARSE GRAINED THIN BEDED, CALCIUM-SILICATE GNEISS AND MARBLE-QUARTZITE WITH QUARTZ-CALCITE-PLASIOCLASE-DIOPHASE AND ACCESSORY SCAPOLITE, ACTINOLITE, GRANULITE, GYPSUM AND BIOTITE. COMMONLY INTERBEDDED WITH AND PASSING LATERALLY INTO UNIT Amf.
Amv WHITE, GREY AND GREY-BLUE, MEDIUM TO COARSE GRAINED, MASSIVE AND FOLIATED MARBLE, MARBLE-QUARTZITE WITH QUARTZ-CALCITE, SCAPOLITE, PHLOGOPITE, GRAPHITE, A WHITE MICA MINERAL AND TROPOLITE. INTERBEDDED WITH AND PASSING LATERALLY INTO UNIT Amf. INCLUDES SMALL BEDS OF UNIT Amf.
Amr RUSTY, FINE TO MEDIUM GRAINED, GRAPHITIC PARAGNEISS WITH PYRITE AND PYRHOHITE.
Amn A DARK GREEN, FINE TO MEDIUM GRAINED, MASSIVE AND FOLIATED AMPHIBOLITE. POSSIBLY METAFELTIC.
Amq WHITE TO GREY-BLUE, MEDIUM TO COARSE GRAINED, MASSIVE AND FAIRLY BEDED, ORTHOQUARTZITE WITH MINOR FELDSPAR, WHITE MICA AND PHLOGOPITE. INTERBEDDED WITH AND PASSING LATERALLY INTO UNIT Amf. INCLUDES SMALL BEDS OF UNIT Amf.
Amf RUSTY, MASSIVE PYRITE, MANGNETITE IRON FORMATION.
- UNCONFORMITY**
Am Dark green foliated amphibolite, meta-gabbro and hornblende-plagioclase gneiss.
- PRINCE ALBERT GROUP**
Am2 FOLIATED AMPHIBOLITE DYKES.
Am1 LAYERED AMPHIBOLITE.
Am3 FOLIATED AND MASSIVE, DARK GREY, COARSE GRAINED ANORTHOSITIC GABBRO; MINOR AMPHIBOLITE.
Am4 FOLIATED, SERPENTINIZED ULTRAMAFIC ROCK.
Am5 QUARTZ-BIOTITE-FELDSPAR PARAGNEISS, SOME HORNBLENDE-BEARING.
Am6 MUSCOVITE-QUARTZ-FELDSPAR PARAGNEISS.
Am7 DARK BLUE-GREY LAYERED OXIDE FACIES IRON FORMATION.
Am8 WHITE, MEDIUM TO COARSE GRAINED, MASSIVE ORTHOQUARTZITE; MUSCOVITE- AND RARELY FELDSPAR-BEARING.
Am9 LIGHT GREY, FINE GRAINED LAYERED ACID VOLCANIC ROCKS.
- GEOLOGICAL BOUNDARY (DEFINED, APPROXIMATE)**
BOUNDARY OF AREAS EXTENSIVELY DRIFT-COVERED
GEOLOGICAL BOUNDARY GRADATIONAL, POORLY-EXPOSED, IMPRECISELY LOCATED OR NOT OBSERVED.
- PLUNAR STRUCTURES**
Bedding and compositional layering (horizontal, inclined, vertical)
Foliation, schistosity, gneissic layering and cleavage (non-zonal, inclined, vertical, dip unknown) earliest or only observed.
Axial planes (inclined, vertical) associated with folds deforming bedding and compositional layering. Earliest or only observed.
Axial planes (inclined, vertical) associated with folds of later phases observed to have deformed bedding or early foliation.
- LINEAR STRUCTURES**
Lineation (plunging, horizontal); formed by fold axes, bedding foliation, intersection of bedding or bedding and bedding (M), and bedding axes (B); earliest or only observed.
Lineation (plunging, horizontal); formed by bedding-foliation and foliation-foliation intersection (M), mineral growth or rodding (R) and millon (M) and fold axes associated with folds observed to have deformed bedding or early foliation.
- FAULTS**
High angle fault (defined, approximate); arrows indicate apparent relative movement.
Low angle fault (defined, approximate); teeth in direction of dip.
- NOTE ON DATA PRESENTATION**
 Lithologic and structural data shown is that obtained in the field augmented by only limited interpretation. No attempt has been made to extend lithologic units to construct an integrated stratigraphic and structural model. Lithologic units in the legend are not arranged in temporal order, as this is largely uncertain, except that basal units of the Penninny Group are listed below other parts of the group. Description of mesoscopic structures is limited to morphology of common types. Mesoscopic structures are assigned a position (early or late) in the tectonic hierarchy based upon interpretation of local field relationships only. This position cannot be directly related to deformational phases which formed large folds or to mesoscopic structures in nearby areas. No attempt has been made to integrate mesoscopic features into a mesoscopic structural synthesis. Axial traces of mesoscopic features are not portrayed as those of early folds are largely interpretative and those of late folds can be deduced from attitudes of planar structures on the map.
- Geological mapping by: J.R. HENDERSON (N), I.E. HUTCHON (S)**
Geological cartography by: J.R. HENDERSON, I.E. HUTCHON
Descriptive notes by: A.V. OKULITCH, I.E. HUTCHON
- NOTICE OF ANY REVISIONS OR ADDITIONAL GEOLOGICAL INFORMATION KNOWN TO USERS OF THESE MAPS WOULD BE GRATEFULLY RECEIVED BY THE AUTHORS.

DESCRIPTIVE NOTES
 MAP-AREA 46 0/11 CONTAINS A LARGE CENTRAL REGION WHERE GNEISS OF THE BASEMENT COMPLEX AND METAMORPHOSED VOLCANIC AND SEDIMENTARY ROCKS OF THE PRINCE ALBERT GROUP ARE EXPOSED IN A FEW OUTCROPS. METASEDIMENTS OF THE PENNYN GROUP FLANK THE BASEMENT COMPLEX ALONG THE NORTH AND SOUTH SIDES OF THE AREA. THE COMPLEX CONTAINS LAYERED GNEISS (Agn) IN A BELT ADJACENT TO THE PRINCE ALBERT GROUP IN THE SOUTH AND FOLIATED GRANODIORITE AND GRANITOID GNEISS (Ag) IN MUCH OF ITS WESTERN AND NORTHERN PARTS. FOLIATED K FELDSPAR AUGEN GRANITE IS FOUND BORDERING THE PRINCE ALBERT GROUP IN THE NORTHEAST AND SOUTHWEST QUARTERS. THE PRINCE ALBERT GROUP IS FOUND IN SCATTERED OUTCROPS THROUGHOUT THE EAST-CENTRAL PART OF THE AREA. PARAGNEISS (Amn) FORMS MOST OUTCROPS BUT LAYERED AMPHIBOLITE (Am2), POSSIBLY METAFELTIC, IS ALSO COMMON. ASSOCIATED WITH THE AMPHIBOLITE ARE MUSCOVITE SCHIST AND PARAGNEISS (Am8), IRON FORMATION (Am7), ULTRAMAFIC ROCKS (Am4) AND SMALL BEDS OF FELTIC ROCKS, POSSIBLY METAFELTIC, AND ORTHOQUARTZITE AND SCHIST.

The basal sequence of the Penninny Group is NOT EXPOSED IN THIS AREA. MARBLE (Amv) AND CALCIUM SILICATE GNEISS (Am3) LIE AGAINST BASEMENT GNEISS IN OVERTURNED SECTIONS ALONG BOTH NORTH AND SOUTH CONTACTS. PARAGNEISS (Amn) FOLLOWS THE CARBONATE UNITS AND IS IN TURN FOLLOWED BY MORE MARBLE AND CALCIUM SILICATE GNEISS. MASSIVE LEUCOCRATIC GRANITIC ROCKS INTRUDE PENNYN STRATA IN THE NORTHWEST AND SOUTHWEST CORNERS OF THE AREA (Am5).

Polyphase structures have been observed in the basement complex and the Prince Albert Group but cannot be delineated on the large scale. Foliation and gneissic layering define a broad, asymmetric synformal basin that plunges gently to the east. Its axis lies within 4 km of the northern Penninny contact and it is likely a continuation of the synformal feature in map-areas 46 0/15 and 46 0/15.

Structures in the Penninny Group are predominantly pervasive foliation and isoclinal to open, recumbent and upright folds. In the northeast corner, folds plunge west-southwest and lie on the southern limb of a major antiformal structure extending from map-area 46 0/12 to 46 0/5. Some recumbent folds plunge moderately to the south and may be earlier than those which form the common westerly and west-southwesterly tectonic grain of the Penninny Group.

The basement complex structurally overlies the Penninny Group in this area and along extensions of south contacts to the east-northeast for nearly 60 km. Although even a structure of small amplitude could have great lateral extent, such consistency also suggests that the complex may form a very large continuous sheet or nappe that contains an overturned sequence of basement gneiss and Penninny Group in its lower limbs. The northeast termination of this hypothetical nappe is not exposed. Its western end may lie somewhere within areas of little outcrop in map-area 46 0/12 (Resor, et al. 1976) or extend into regions underlain by the complex to the northwest. Its time of emplacement, on the basis of evidence described in map-area 46 0/9, is prior to east-northeasterly trending isoclinal folding of the Penninny Group.

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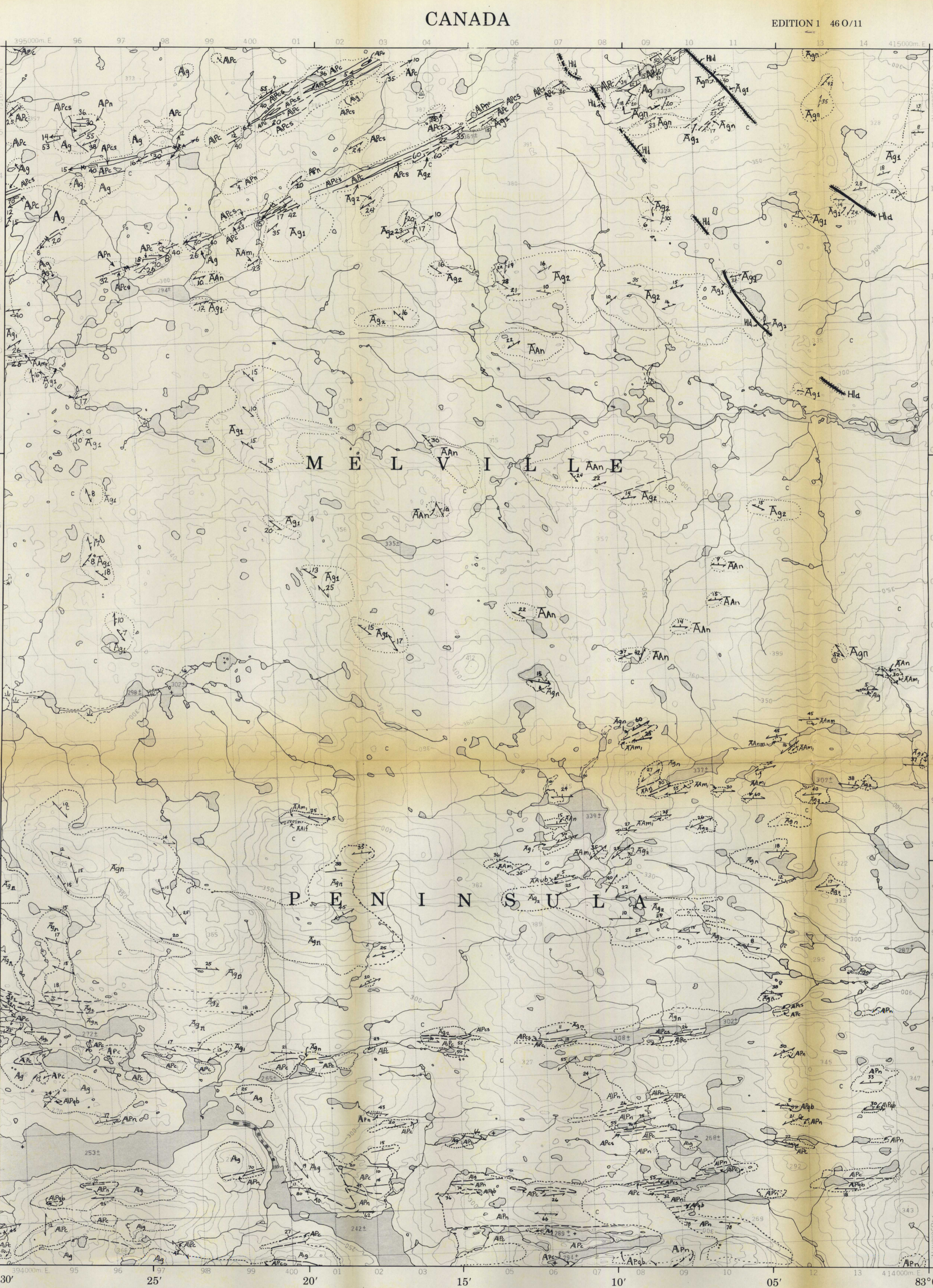
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- ROADS AND RELATED FEATURES**
 HARD SURFACE, ALL WEATHER
 LOOSE SURFACE
 CHARTERED WATER COURSE
 ROAD UNDER CONSTRUCTION
 TRAIL, CUT LINE, PORTAGE
 BACKLAP AREA
 RAILWAY, SIGNAL STATION STOP
 BRIDGE
 SEAPLANE BASE, ANCHORAGE
LANDMARK FEATURES
 HOUSE, BARN
 CHURCH, SCHOOL
 POST OFFICE
 HISTORICAL SITE
 TOWERS, FEU, RADIO
 WELL, OIL, GAS
 TANK, OIL, GASOLINE, WATER
 TELEPHONE LINE
 POWER TRANSMISSION LINE
 NAME
 CULTURAL EMBARASSMENT
 GRAVEL PIT
BOUNDARIES AND SURVEY CONTROL
 INTERNATIONAL PROVISIONAL BOUNDARY
 COUNTY, DISTRICT
 TOWNSHIP, PARISH, SURVEYED
 UNDEVELOPED
 TOWNSHIP, D.L.S., SURVEYED, UNSURVEYED
- SECTION CORNERS**
- MANICULATED**
 BEACH RESERVE, PARK, ETC.
 HORIZONTAL SURVEY POINT
 BENCH MARK WITH ELEVATION
 SPOT ELEVATION, PRECISE, LAND, WATER
 MOUND, SHARP, WOODEN
 DRY OVER BED WITH CHANNELS
 SAND, ABOVE IN WATER
 STRIP, BOG
 TUNDRA, PONDS, POLYVONS
 RAMP, PALES, MOUND
 FRESHWATER SHOALS
 ROCK
 DAM
 WHARF
 WOODEN AREA
 PILING
 SAND, SAND DUNE
 PALSA BOG
 WOODS AREA
 CLEARED AREA
- ROUTES ET OUTRAGES CONNEXES**
 GRAVIER
 CHARTERÉ EN TRAVAIL
 CHANTIER EN CONSTRUCTION
 SENTIER, PENTE, PORTAGE
 ARRIÈRE-TRAVERSÉ
 CHENAUX DE FER, VERTICEMENT, GARE, ARRET
 PONT
 HYDROAÉROPORT, MOULAGE
POINTS DE REPÈRE
 MAISON, GRANGE
 ÉGLISE, ÉCOLE
 BUREAU DE POSTE
 LIEU HISTORIQUE
 TOURS, FEU, RADIO
 PUIS, PETROLE, GAZ
 RESERVOIR, PETROLE, ESSENCE, EAU
 LIGNE TELEPHONIQUE
 LIGNE DE TRANSPORT D'ÉNERGIE
 NOM
 DÉLIT, ÉMBAZÈME
 Puits
FRONTIÈRES ET POINTS DE RÉFÉRENCES
 FRONTIÈRE INTERNATIONALE PROVISIONALE
 FRONTIÈRE PROVINCIALE
 COMTE, DISTRICT
 CANTON, PAROISSE, APPENTE
 FRONTIÈRE PROVINCIALE
- COMNOS DE SECTION**
- DRAINAGE AND RELATED FEATURES**
 STREAM, INTERMITTENT, PERMANENT
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 LAKE, INTERMITTENT
 UNDEVELOPED
 MOUND, SHARP, WOODEN
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 PILING
 SAND, SAND DUNE
 PALSA BOG
 WOODS AREA
 CLEARED AREA
- PHOTOGRAPIE**
 COMPILED
 RESTITUTION
- GRID DATA**
 1:50,000 SCALE
 UTM ZONE 18N
 NORTHING 9910000
 EASTING 1000000
 GRID NORTH 49° 00' 00" (49° 00' 00" WEST OF TRUE NORTH)
 GRID EASTING 1000000 (1000000 METRES EAST OF TRUE NORTH)
 ANNUAL CHANGE DEGRADATION 23.3"
 VARIATION ANNUELLE DEGRADATION 23.3"
 LES CARTES SONT EN VENTE AU BUREAU DE DISTRIBUTION DES PRODUITS GÉOLOGIQUE, OTTAWA
- CONVERSION SCALE FOR ELEVATIONS**
 METERS: 0, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000
 FEET: 0, 300, 600, 900, 1200, 1500, 1800, 2100, 2400, 2700, 3000



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TRANSVERSE MERCATOR PROJECTION
 NORTH AMERICAN CONTINENT 1927
 NAD 43
 SCALE 1:50,000

ELEVATIONS IN METRES ABOVE MEAN SEA LEVEL
 CONTOUR INTERVAL 10 METRES

DISTRICT OF FRANKLIN
NORTHWEST TERRITORIES
 Scale 1:50,000 Échelle

ELEVATIONS EN MÈTRES AU-DESSUS DU NIVEAU MOYEN DE LA MER
 ÉQUIDISTANCE DES COUBRES 10 MÈTRES

STABLE AREA LA DIRECTION DES LIGNES ET DE LA CARTHAGÈNE. MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, OTTAWA, 1978

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LEGEND - LÉGENDE

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 LOOSE SURFACE
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 BEACH RESERVE, PARK, ETC.
 HORIZONTAL SURVEY POINT
 BENCH MARK WITH ELEVATION
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 RAMP, PALES, MOUND
 FRESHWATER SHOALS
 ROCK
 DAM
 WHARF
 WOODEN AREA
 PILING
 SAND, SAND DUNE
 PALSA BOG
 WOODS AREA
 CLEARED AREA

PHOTOGRAPIE
 COMPILED
 RESTITUTION

GRID DATA
 1:50,000 SCALE
 UTM ZONE 18N
 NORTHING 9910000
 EASTING 1000000
 GRID NORTH 49° 00' 00" (49° 00' 00" WEST OF TRUE NORTH)
 GRID EASTING 1000000 (1000000 METRES EAST OF TRUE NORTH)
 ANNUAL CHANGE DEGRADATION 23.3"
 VARIATION ANNUELLE DEGRADATION 23.3"
 LES CARTES SONT EN VENTE AU BUREAU DE DISTRIBUTION DES PRODUITS GÉOLOGIQUE, OTTAWA

CONVERSION SCALE FOR ELEVATIONS
 METERS: 0, 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000
 FEET: 0, 300, 600, 900, 1200, 1500, 1800, 2100, 2400, 2700, 3000

ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 18
QUADRILLAGE DE MILLE MÈTRES UNIVERSAL TRANSVERSE DE MERCATOR

The 1974 MAGNETIC BEARING is 42° 14' (15 min) WEST OF TRUE NORTH
 ANNUAL CHANGE DEGRADATION 23.3"
 GRID NORTH is 2° 00' (17 min) WEST OF TRUE NORTH
 GRID EASTING 1000000

Le Répertorié Magnétique en 1974 est de 42° 14' (15 min) OUEST DU NORD VÉRITABLE
 VARIATION ANNUELLE DEGRADATION 23.3"
 NORD VÉRITABLE EST 2° 00' (17 min) OUEST DU NORD GÉOMAGNÉTIQUE
 EST 1000000

LES CARTES SONT EN VENTE AU BUREAU DE DISTRIBUTION DES PRODUITS GÉOLOGIQUE, OTTAWA

LA ROUSSEILLE SERA PUBLIÉE EN UN SEUL VOLUME DANS CETTE RÉGION