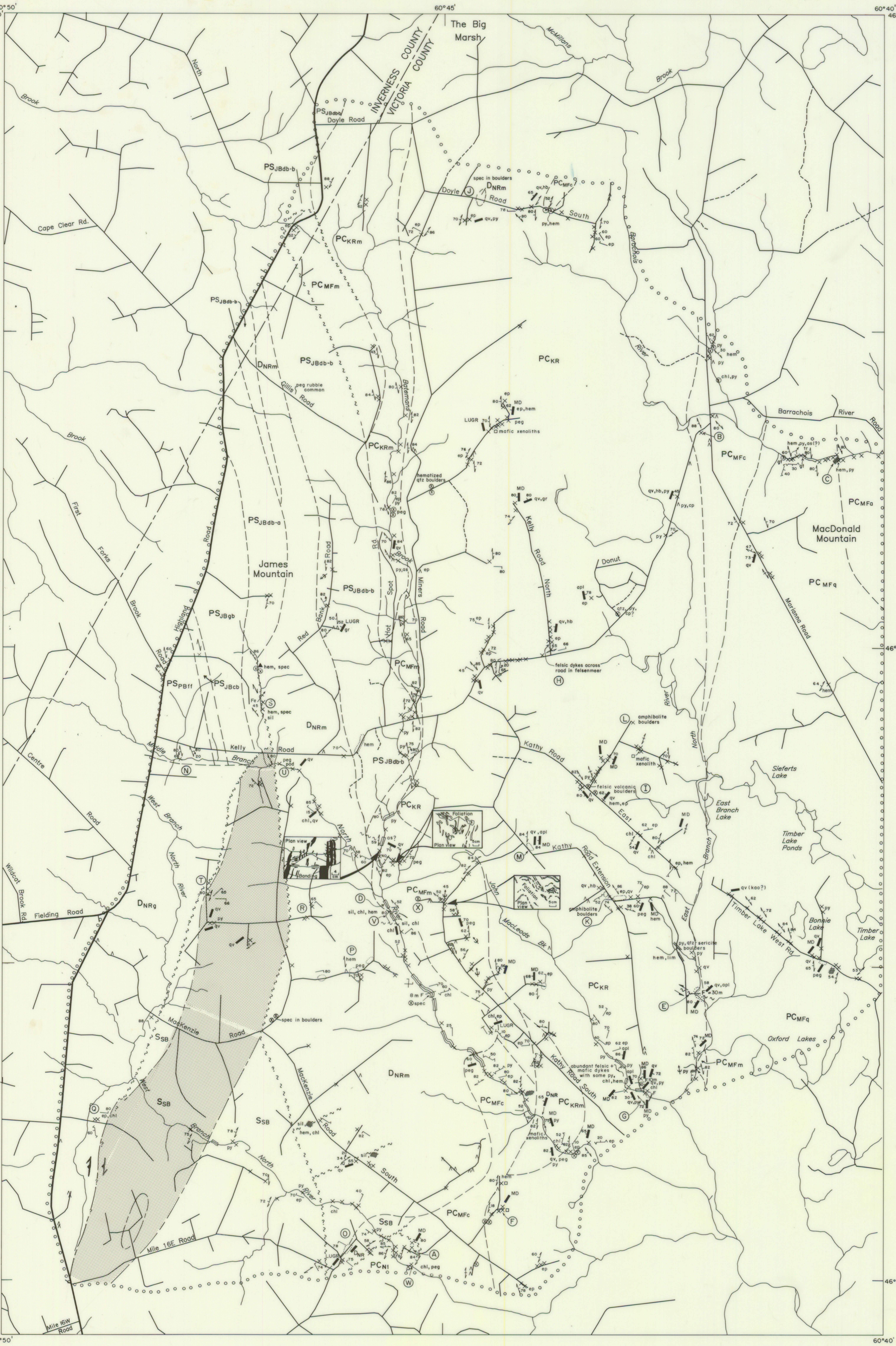


LEGEND

DEVONIAN-CARBONIFEROUS

WEST BRANCH NORTH RIVER PLUTON

D_{NRm}	medium- to coarse-grained, moderately equigranular to megacrystic, pink to orange-red, bi±hb monzogranite with distinctive milky-white qtz
D_{NRg}	medium- to coarse-grained, orange-red to light grey, moderately equigranular to megacrystic, bi±hb granodiorite

SILURIAN

SARACH BROOK METAMORPHIC SUITE

S_{SB}	undivided fine- to coarse-grained, felsic, intermediate, and mafic pyroclastics and flows, minor slate and schist; locally mylonitic and strongly sheared

SILURIAN OR OLDER

PLEASANT BAY COMPLEX

PS_{PBff}	*First Forks Brook gneiss:* banded, mafic qtz-feld-bi-hb±gt gneiss, amphibolite

JUMPING BROOK METAMORPHIC SUITE

PS_{JBgb}	*George Brook amphibolite:* fine- to coarse-grained amphibolite
PS_{JBcb}	*Corney Brook schist:* medium- to coarse-grained, pelitic, bi-mus±gr±st±ky schist
PS_{JBdba}	*Dauphinee Brook schist (subunit a):* fine-grained, semipelitic, bi-gr schist
PS_{JBdbb}	*Dauphinee Brook schist (subunit b):* fine- to medium-grained, psammitic-semipelitic, chl-bi-mus±gr schist

PRECAMBRIAN

KATHY ROAD DIORITIC SUITE

$P€_{KR}$	fine- to coarse-grained, moderately equigranular, white and black, diorite; locally strongly sheared, unfoliated with locally well-developed foliation; minor intermediate to mafic dioritic gneiss
$P€_{KRm}$	moderately well-foliated to well-foliated, fine- to medium-grained, intermediate to mafic dioritic gneiss

McMILLAN FLOWAGE FORMATION

$P€_{MFc}$	pelitic to semi-pelitic bi-mus schist with minor amphibolite
$P€_{MFq}$	pure quartzite with minor pelitic bi-mus schist; phyllite; semi-pelitic to psammitic metasediments
$P€_{MFa}$	semipelitic and pelitic schist and phyllite, amphibolite, mafic phyllite
$P€_{MFm}$	interlayered, black and orange, banded, fine-grained, quartzofeldspathic and amphibolitic gneiss and migmatite, minor semipelitic schist and phyllites

NORTH BRANCH BADDECK RIVER LEUCOTONALITE

$P€_{NI}$	black and white, medium grained leucotonalite to tonalite, well foliated

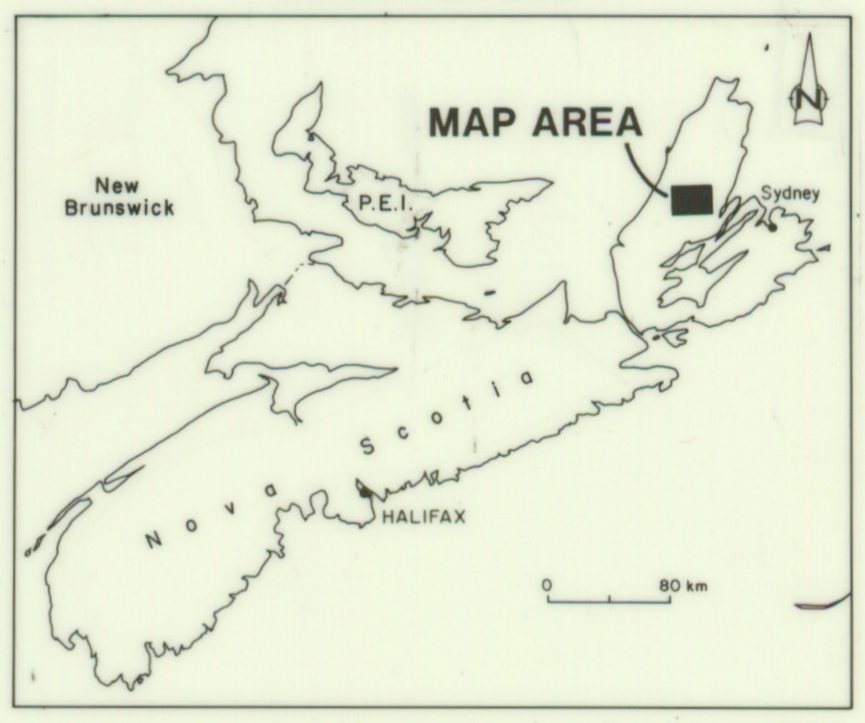
SYMBOLS

Rock outcrop, area of outcrop, stream section, probable outcrop, float
Geological contact (defined, approximate, assumed, gradational)
Exposed contact (arrow pointing toward younger unit, age relation not known)
Schistosity, gneissosity, cleavage (inclined, vertical, dip unknown)
Lineation (inclined, horizontal)
Fold axis of minor fold (z-sense, s-sense, multiple folds; arrow indicates plunge)
Bedding, tops unknown (inclined)
Joint (inclined, vertical, horizontal)
Slickensided fracture (inclined, vertical)
Dyke or vein, type or unit indicated (inclined, vertical)
Cataclastic zone (breccia - cataclastic)
Shear zone (pattern); oblique-dextral, inclined
Mylonitic foliation (inclined, vertical)
Fault (defined, approximate, assumed; arrows indicate relative movement)
Lineament (from air photographs)
Limit of geological mapping
Mineral occurrence (number refers to NSDNR Mineral Occurrence Card) Cu K07-00
Waterfalls (approximate height in metres) F 5m
Xenolith
Gossan

ABBREVIATONS

Aplite	apl
Arsenopyrite	as
Biotite	bi
Chlorite	chl
Chalcopyrite	cp
Disseminated	diss
Epidote	ep
Feldspar	feld
Galena	gn
Garnet	gt
Hematite	hem
Hornblende	hb
Kaolinite	kao
Kyanite	ky
Leucogranite	LUGR
Limonite	lim
Mafic dyke	MD
Magnetite	mag
Muscovite	mus
Pegmatite	peg
Pyrite	py
Quartz	qtz
Quartz vein	qv
Silicified	sil
Specularite	spec
Staurolite	st
Sulphide	sul
Tourmaline	tr

LOCATION MAP



MAP NOTES

Planimetric base derived from Land Registration and Information Service (L.R.I.S.) Orthophoto mapping, circa 1973, scale 1:10 000, 3° M.T.M. projection, AST 77.

Road update performed visually from 1:10 000 scale, uncorrected, air photographs, circa 1984, by Nova Scotia Department of Natural Resources field staff at time of survey.

Cartography by Nova Scotia Department of Natural Resources, Mines and Minerals Branch Cartographic Services, 1992.

For explanation of letter symbols, (F), refer to accompanying NSDNR Report.

Nova Scotia Department of Natural Resources
Mines and Energy Branches
OFM-94-006

Bedrock Geology of the

SOUTHEAST CAPE BRETON HIGHLANDS
NOVA SCOTIA

Part of N.T.S. sheet 11K/07 Inverness and Victoria Counties

L.J. Ham

Scale 1 : 25 000

1000 500 0 1000 2000
metres

Nova Scotia Department of Natural Resources
Honourable Donald R. Downe, Minister

Halifax, Nova Scotia
1994

Nova Scotia Department of Natural Resources

Canada-Nova Scotia Cooperation Agreement on Mineral Development 1990-1992