LEGEND

TERRAIN
(Map Symbol)

GENETIC LANDFORM CLASS

M morainal
m marine
D deltaic
F glaciofluvial
I ice contact
A alluvial
A modern alluvial floodplain
gR bedrock (granitic)
cR bedrock (carbonate)

MORPHOLOGY AND SURFACE FORM

(lower case) p plain - flat*
m rolling
h hummocky
r ridged
t terraced
k kettled
f fan
v veneer

* but may have unit tilt.

MORPHOLOGIC MODIFIER (upper case)

D dissected
W washed
B boulder-covered

RELIEF CLASS (numerical subscript)

1 less than 5 metres
2 6 - 20 metres
3 21 - 50 metres
4 greater than 50 metres

SLOPE CLASS (numerical, on line)

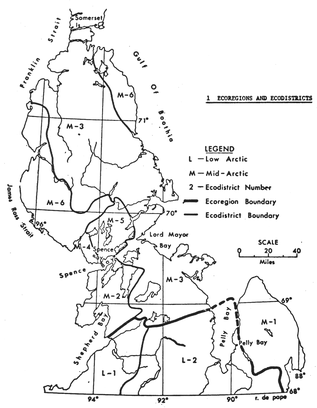
1 1 - 5 degrees
2 6 - 15 degrees
3 16 - 35 degrees
4 greater than 35 degrees
5 complex slopes

VEGETATION COVER CLASSES
(Map Symbol)

1 - Unvegetated (less than 10%)
2 - Sparse (11 - 40%)
3 - Moderate (41 - 70%)
4 - Abundant (71 - 90%)
5 - Continuous (91 - 100%)

SOIL AND VEGETATION

Map Symbol	Ecoregion 1 and Ecodistrict	Parent Material	Ground Ice and Ice Content	SOIL		Depth of Thaw (cm)	Vegetation 3
				Soil Association	Gen. Name and Drainage 2		
Ka1	M-3	Weakly calcareous sand and gravel ice contact and glaciofluvial materials.	Ice wedges and segregated ice crystals. Low to high ice content.	Kugaluktok 1	Brunisolic Static Cryosol (W,I)	70-80	Ner, L-Dr, Dr-L-Cs, Dr-L-Cr, Cr-Dr-L, Dr-Cr, Dr-Sa, Cx-Mo
Ka2		Less than 1.5 m of weakly calcareous sand and gravel ice contact and glaciofluvial materials over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Kugaluktok 2	Brunisolic Static Cryosol (W,I 5) Lithic Brunisolic Static Cryosol (W,I 5)	70-80	Ner, L-Dr, Dr-L-Cs, Dr-L-Cr, Cr-Dr-L, Dr-Cr, Dr-Sa, Cx-Mo
Mj1		Moderately calcareous, silt loam to silty clay marine deposit.	Massive ground ice to near surface permafrost (0.5 m or more thick). Ice lenses, segregated ice crystals and vein ice are also common. High ice content.	Mary Jones 1	Brunisolic Turbic Cryosol (W,I 7)	50-60	Dr-L, Ca-L, Ca-Dr
					Gleysolic Turbic Cryosol (P 3)	30-40	Dr-Mo, Cx-Mo
Mj2		Less than 1.5 m of moderately calcareous, silt loam to silty clay marine deposit over Precambrian bedrock.	Ice lenses, segregated ice crystals and vein ice. High ice content.	Mary Jones 2	Brunisolic Turbic Cryosol (W,I 5) Lithic Brunisolic Turbic Cryosol (W,I 5)	50-60	Dr-L, Ca-L, Ca-Dr
					Gleysolic Turbic Cryosol (P 2)	30-40	Dr-Mo, Cx-Mo
Mj3		Less than 1.5 m of moderately calcareous, silt loam to silty clay marine deposit over glacial till.	Massive ground ice in near surface permafrost (0.5 m or more thick). Ice lenses, segregated ice crystals and vein ice are also common. High ice content.	Mary Jones 3	Brunisolic Turbic Cryosol (W,I 7)	50-60	Dr-L, Ca-L, Ca-Dr
					Gleysolic Turbic Cryosol (P 3)	30-40	Dr-Mo, Cx-Mo
Sg1		Moderately to very strongly calcareous, loamy sand to sandy loam glacial till.	Segregated ice crystals and vein ice are common, some ice lenses in poorly drained areas. Medium to low ice content.	Sagvak 1	Regosolic Turbic Cryosol (W,I 8) Brunisolic Turbic Cryosol (W,I 1)	70-85	Ncb, Dr-L(cb), Dr-Ca(cb), Dr-Sa(cb) Dr-L-Ca, Dr-Ca-L, Ca-L-Dr
					Gleysolic Turbic Cryosol (P 1)	85	Dr-L-Mo
Sg2		Less than 1.5 m of moderately to very strongly calcareous, loamy sand to sandy loam glacial till over Precambrian bedrock.	Segregated ice crystals and vein ice. Medium to low ice content.	Sagvak 2	Regosolic Turbic Cryosol (W,I 5) Lithic Regosolic Turbic Cryosol (W,I 4)	70-85	Ncb, Dr-L(cb), Dr-Ca(cb), Dr-Sa(cb) Dr-L-Ca, Dr-Ca-L, Ca-L-Dr, Dr-L-Mo
					Gleysolic Turbic Cryosol (P 1)	55	Dr-L-Mo
Tb1		Weakly to moderately calcareous marine sand and gravel.	Massive ice wedges and segregated ice crystals. High to low ice content.	Thom Bay 1	Brunisolic Static Cryosol (W,I 6) Regosolic Static Cryosol (W,I 4)	70-80	Ner, L-Dr, Dr-L-Cr, Dr-L-Cr, Cr-Dr-L, Dr-Cr, Dr-Sa
						20-55	Cx-Mo-Dr, Cx-Mo
Tb2		Less than 1.5 m of weakly to moderately calcareous marine sand and gravel over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Thom Bay 2	Brunisolic Static Cryosol (W,I 4) Lithic Brunisolic Static Cryosol (W,I 3) Regosolic Static Cryosol (W,I 3)	70-80	Ner, L-Dr, Dr-L-Cr, Dr-L-Cr, Cr-Dr-L, Dr-Cr, Dr-Sa
						20-55	Cx-Mo-Dr, Cx-Mo
Ar1		Noncalcareous to weakly calcareous silty clay to clay marine deposit.	Massive ground ice in near surface permafrost (0.5 m or more thick). Ice lenses, segregated ice crystals and vein ice are also common. High ice content.	Arrowsmith River 1	Brunisolic Turbic Cryosol (I 7) Gleysolic Turbic Cryosol (P 3)	40-50	Ner, Et-Mo-L, Mo-L-Eo, Mo-Cx
						35-60	Et
Ar2		Noncalcareous to weakly calcareous silty clay to clay marine deposit.	Ice lenses, segregated ice crystals and vein ice. Medium ice content.	Arrowsmith River 2	Regosolic Static Cryosol (W)	70	Ner
Ar3		Less than 1.5 m of noncalcareous to weakly calcareous silty clay to clay marine deposit over Precambrian bedrock.	Ice lenses, segregated ice crystals and vein ice. Medium ice content.	Arrowsmith River 3	Brunisolic Turbic Cryosol (W,I 5) Lithic Brunisolic Turbic Cryosol (W,I 5)	40-50	Ner, Et-Mo-L, Mo-L-Eo, Mo-Cx
						35-60	Et
Ar4		Less than 1.5 m of noncalcareous to weakly calcareous silty clay to clay marine deposit over glacial till.	Massive ground ice in near surface permafrost (0.5 m or more thick). Ice lenses, segregated ice crystals and vein ice are also common. High ice content.	Arrowsmith River 4	Brunisolic Turbic Cryosol (I 7) Gleysolic Turbic Cryosol (P 3)	40-50	Ner, Et-Mo-L, Mo-L-Eo, Mo-Cx
						35-60	Et
Be1		Noncalcareous marine gravel.	Ice wedges and segregated ice crystals. Low to high ice content.	Becher River 1	Brunisolic Static Cryosol (W)	70-90	L-Er, L-Mo, Ner
Be2		Less than 1.5 m of noncalcareous marine gravel over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Becher River 2	Brunisolic Static Cryosol (W 5) Lithic Brunisolic Static Cryosol (W 5)	70-90	L-Er, L-Mo, Ner
Ke1	L-2	Noncalcareous marine sand.	Massive ice wedges and segregated ice crystals. High to low ice content.	Kellet River 1	Brunisolic Static Cryosol (W 8)	35-70	L-Er, Cr-Mo-Dr, Mo-L
					Regosolic Static Cryosol (W 2)	80-90	Ner
Ke2		Less than 1.5 m of noncalcareous marine sand over marine clay.	Massive ice wedges and segregated ice crystals. High to low ice content.	Kellet River 2	Brunisolic Static Cryosol (W)	35-70	L-Er, Cr-Mo-Dr, Mo-L
Ke3		Less than 1.5 m of noncalcareous marine sand over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Kellet River 3	Brunisolic Static Cryosol (W 5) Lithic Brunisolic Static Cryosol (W 5)	35-70	Ner, L-Er, Cr-Mo-Dr, Mo-L
Pl1		Noncalcareous sand to sandy loam glacial till.	Segregated ice crystals and ice lenses. Medium to low ice content.	Pelly Bay 1	Brunisolic Turbic Cryosol (W,I)	75-90	L-Er, L-Mo
						50-55	Cx-Mo-L, Mo-L-Cx, Mo-Cx-L(cb)
Pl2		Less than 1.5 m of noncalcareous sand to sandy loam glacial till over Precambrian bedrock.	Segregated ice crystals and ice lenses. Medium to low ice content.	Pelly Bay 2	Brunisolic Turbic Cryosol (W,I 5) Lithic Brunisolic Turbic Cryosol (W 5)	75-90	L-Er, L-Mo
						50-55	Cx-Mo-L, Mo-L-Cx, Mo-Cx-L(cb)
Sm1		Noncalcareous sand and gravel ice contact and glaciofluvial materials.	Ice wedges and segregated ice crystals. Low to high ice content.	Simpson Lake 1	Brunisolic Static Cryosol (W)	70-90	L-Er, L-Mo, Ner
Sm2		Less than 1.5 m of noncalcareous sand and gravel ice contact and glaciofluvial materials over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Simpson Lake 2	Brunisolic Static Cryosol (W 5) Lithic Brunisolic Static Cryosol (W 5)	70-90	L-Er, L-Mo, Ner
Sp1		Weakly calcareous to noncalcareous recent sandy alluvium.	Ice lenses and segregated ice crystals. Low to medium ice content.	Stael Point 1	Regosolic Static Cryosol (P)	90	N
Sp2		Weakly calcareous to noncalcareous sandy alluvium.	Ice wedges, ice lenses and segregated ice crystals. Medium to high ice content.	Stael Point 2	Regosolic Static Cryosol (W,I 6) Brunisolic Static Cryosol (W,I 4)	60-80	L-Er, Ca-Mo-Dr, Mo-L
Sp3		Less than 1.5 m of weakly calcareous to noncalcareous sandy alluvium over marine clay.	Ice wedges, ice lenses and segregated ice crysta.s. Medium to high ice content.	Stael Point 3	Regosolic Static Cryosol (W,I 6) Brunisolic Static Cryosol (W,I 4)	60-80	L-Er, Ca-Mo-Dr, Mo-L
Sp4		Less than 1.5 m of weakly calcareous to noncalcareous sandy alluvium over Precambrian bedrock.	Segregated ice crystals and ice lenses. Medium ice content.	Stael Point 4	Brunisolic Static Cryosol (W,I 5) Lithic Brunisolic Cryosol (W,I 5)	60-80	L-Er, Ca-Mo-Dr, Mo-L
Pc	N-3, L-2	Coarse-grained igneous or metamorphic rock containing quartz as an essential component, along with feldspar and mafic minerals; mainly refers to granite and granite gneiss.	—	Precambrian Granitic Bedrock	—	—	N



1 ECOREGIONS AND ECODISTRICTS

LEGEND
L — Low Arctic
M — Mid-Arctic
2 — Ecodistrict Number
Ecoregion Boundary
Ecodistrict Boundary

2. SOIL DRAINAGE CLASSES

W - well drained
I - imperfectly drained
P - poorly drained

3. VEGETATION
(species abbreviation)

Ca - Carex rupestris, Carex scirpoidea
Ce - Cassiope tetragona
Cr - Carex misandra, Carex saxatilis
Cs - Carex stans
Dr - Dryas integrifolia
Er - Ericaceae (Ledum decumbens, Vaccinium uliginosum, Vaccinum vitis-idea var. minus)
Eo - Eriophorum angustifolium
Et - Eriophorum tuseock (Eriophorum vaginatum)
L - Lichens
Mo - Mosses
N - Unvegetated (Nudum)
Sa - Saxifrage oppositifolia
Sx - Salix arctica

(Modifier abbreviation)

cb - Cryoturbated
er - Eroded

COMPOSITE UNITS

| first of units is more than 80% of total unit area
‖ first of units is more than 60% of total unit area
• units are of roughly equal proportions

MAP SYMBOLS

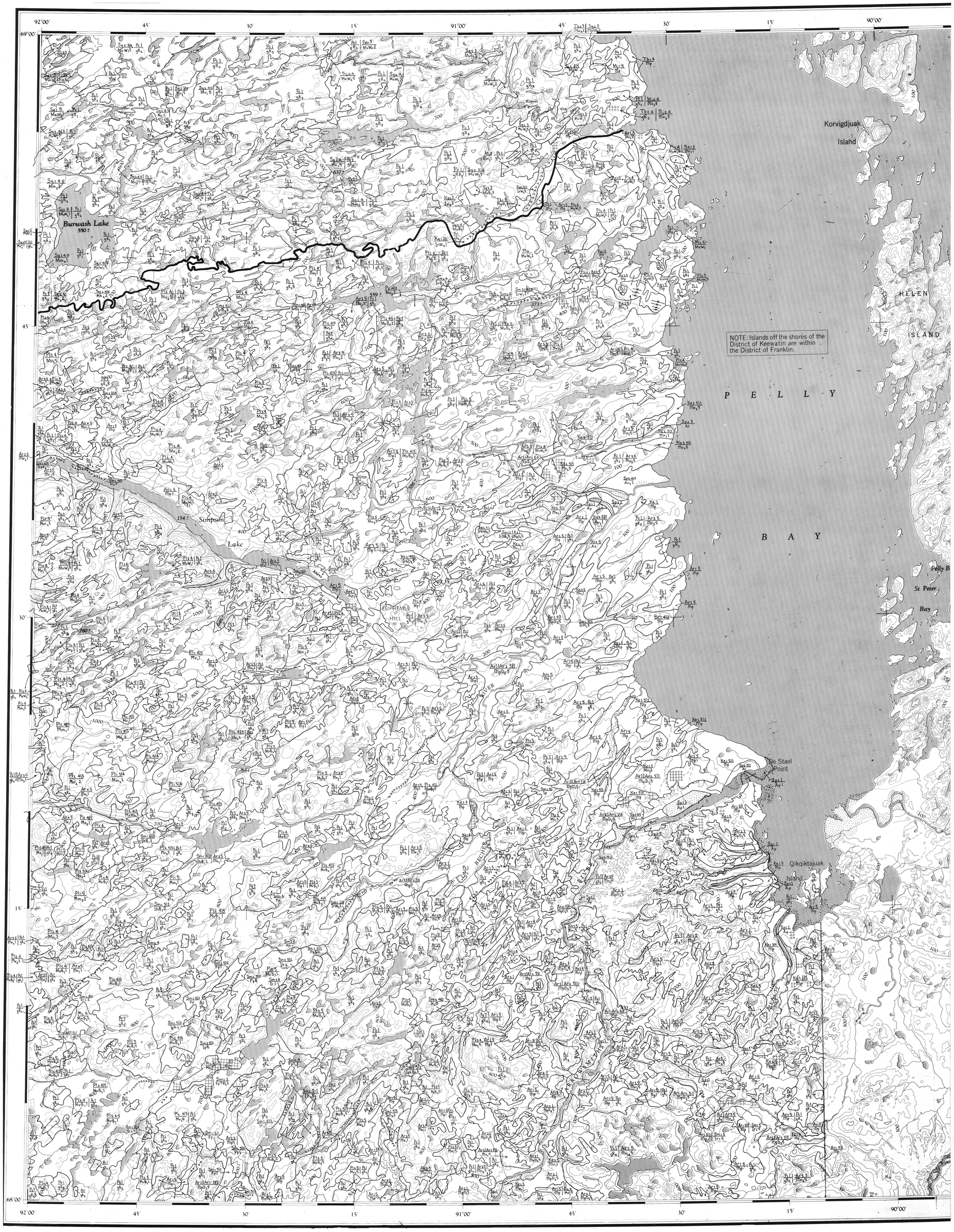
Break of slope (scarp)
Abandoned strand
Esker — Unknown — Known
Ice wedge polygon

EXPLANATION OF MAP SYMBOL

Soil Association — Vegetation Cover Class
Ar3 5
Landform — Slope Class
Relief Class

NOTES:

Bedrock slope classes are assumed to be complex unless otherwise shown.
Stratigraphy: deposits less than 1.5 m thick are indicated as a veneer (v).
Drainage Distribution: The percentage of each drainage class is indicated by a decile number following the drainage symbol.
Soil Classification: See Proc. of the Ninth Meeting of the Canada Soil Survey Committee, Univ. of Sask., Saskatoon, May 16-18, 1973, p. 346-358.
Depth of Thaw: measured in August, 1974.
Elevations in feet above Mean Sea Level.

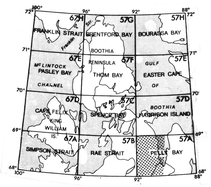


Scale 1:125,000

2 0 5 10 Miles
2 0 5 10 20 Kilometers

Biophysical land classification field work was carried out in 1974 and maps were compiled in 1975 by C. TARNOCAI, Canada Soil Survey, University of Manitoba, Winnipeg, Manitoba, A.N. BOYDELL, J.A. NETTERVILLE and K.A. DRABINSKY, Geological Survey of Canada, Ottawa.

BIOPHYSICAL LAND CLASSIFICATION
PELLY BAY WEST



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