

# LEGEND

**GENETIC LANDFORM CLASS**

M marine  
D deltaic  
F glacioluvial  
I ice contact  
L alluvial  
A alluvial floodplain  
G bedrock (gneissic)  
CB bedrock (carbonate)

**MEPHOLOGY AND SURFACE FORM**

(lower case) p plate-like  
f folds  
r ridges  
t terraced  
b bedded  
v vesper  
\* but may have unit till.

**MORPHOLOGICAL MODIFIER (upper case)**

0 dissected  
w washed  
m hummocky  
8oulder-covered

**RELIEF CLASS (numerical subscript)**

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

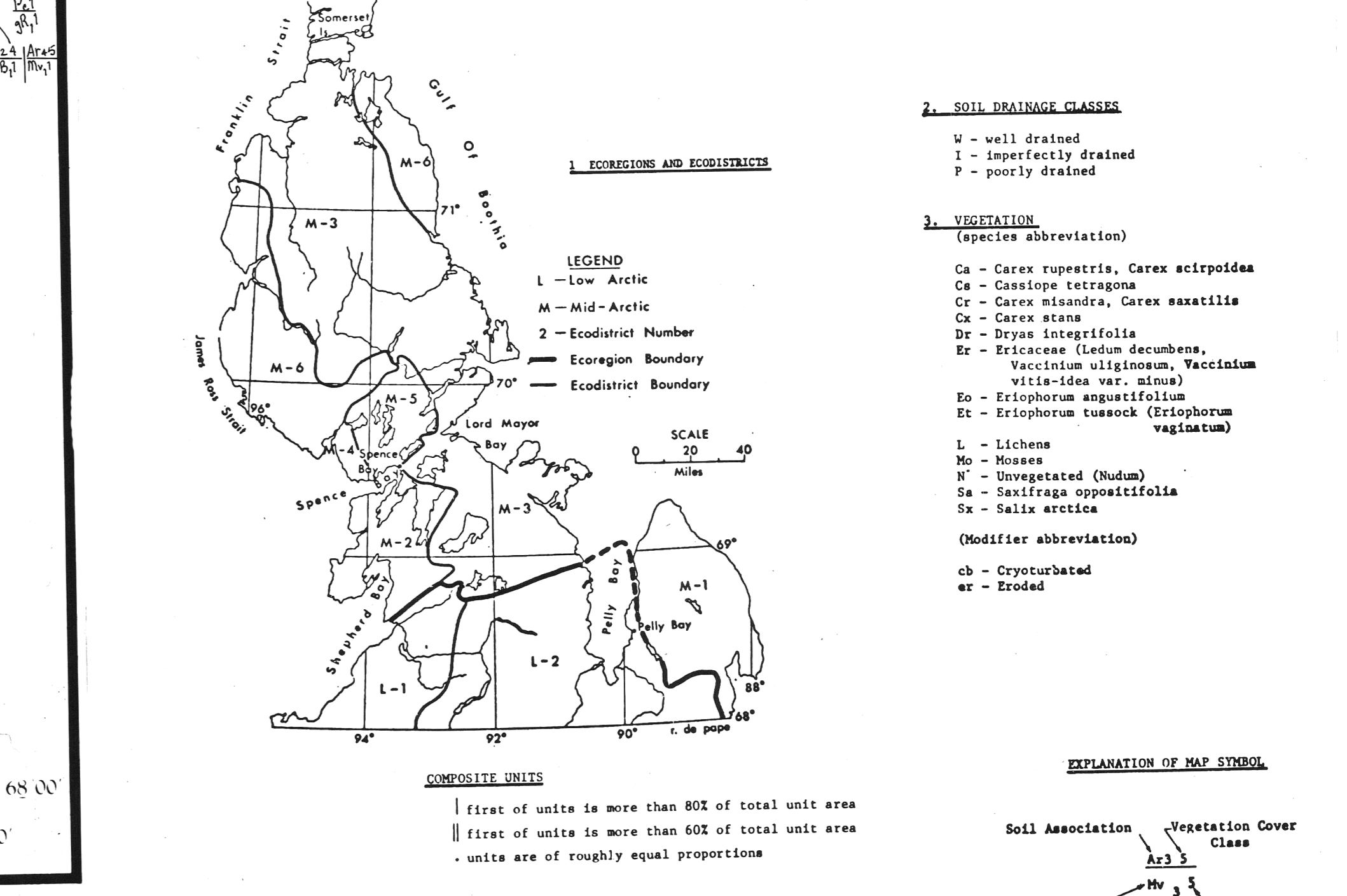
**SLOPE CLASS (numerical, on line)**

1 1 - 5 degrees  
2 6 - 10 degrees  
3 11 - 15 degrees  
4 greater than 15 degrees  
5 complex slopes



**SOIL AND VEGETATION**

Map Symbol	Ecotone and Hydrostrat	Parent Material	Soil and Ice Content	Soil Association	Soil Name and Drainage 3	Depth of Drain (cm)	Vegetation 3
M1		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.	Mestak 1	Brumic Turbic Cryosol (F 3)	40-50	L-Dr-Ca, Dr-Ca-L, Ca-M-L
M2		Less than 1.5 m of 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.	Mestak 2	Brumic Turbic Cryosol (F 3)	40-50	L-Dr-Ca, Dr-Ca-L, Ca-M-L
F1		Extremely calcareous sandy loam to silty clay marine deposit.	Segregated ice crystals and vein ice are common. High ice content.	Fancy Bay 1	Brumic Turbic Cryosol (F 3)	50-70	Dr-Ca-L, Dr-L(Cb), Dr-Ca-L, Dr-Ca-L
F5		Less than 1.5 m of extremely calcareous sandy loam to silty clay marine deposit over limestone bedrock.	Segregated ice crystals and vein ice. Medium to low ice content.	Fancy Bay 3	Brumic Turbic Cryosol (F 3)	60-70	Dr-Ca-L, Dr-L(Cb), Dr-Ca-L, Dr-L(Cb)
M-1		Weakly to noncalcareous marine sand.	Massive ice wedges and segregated ice crystals. High to low ice content.	Rose Hill 1	Brumic Turbic Cryosol (F 3)	50-70	Dr-L-Ca, L-Dr-Ca, L-Ca, Dr-Ca
M-2		Less than 1.5 m of weakly to noncalcareous marine sand over glacial till.	Massive ice wedges and segregated ice crystals. High to low ice content.	Rose Hill 2	Brumic Turbic Cryosol (F 3)	50-70	Dr-L-Ca, L-Dr-Ca, L-Ca, Dr-Ca
M-3		Less than 1.5 m of weakly to noncalcareous marine sand over marine clay.	Massive ice wedges and segregated ice crystals. High to low ice content.	Rose Hill 3	Brumic Turbic Cryosol (F 3)	50-70	Dr-L-Ca, L-Dr-Ca, L-Ca, Dr-Ca
S1		Strongly to extremely calcareous marine sand.	Ice lenses and segregated ice crystals. Low to high ice content.	Stittwell Bay	Brumic Turbic Cryosol (F 3)	70-80	Dr-Ca-L, Dr-L, Ca-M-Dr
S2		Less than 1.5 m of strongly to extremely calcareous marine sand over carbonaceous bedrock.	Segregated ice crystals. Low ice content.	Stittwell Bay	Brumic Turbic Cryosol (F 3)	70-80	Dr-Ca-L, Dr-L, Ca-M-Dr
M1		Moderately calcareous, silty loam to silty 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.	Mary Jones 1	Brumic Turbic Cryosol (F 3)	50-60	Dr-L, Ca-L, Ca-Dr
M3		Less than 1.5 m of moderately calcareous, silty 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	Brumic Turbic Cryosol (F 3)	50-60	Dr-L, Ca-L, Ca-Dr
S4		Moderately to very strongly calcareous, lumpy sand to sandy loam glacial till.	Segregated ice crystals and vein ice. Medium to low ice content.	Sagark 1	Brumic Turbic Cryosol (F 3)	70-85	Dr-L(Cb), Dr-Ca(Lb), Dr-L(Ca), Dr-Ca-L, Ca-L-Dr, Dr-L
S6		Less than 1.5 m of moderately to very strongly calcareous sandy loam glacial till over Precambrian bedrock.	Segregated ice crystals and vein ice. Medium to low ice content.	Sagark 2	Brumic Turbic Cryosol (F 3)	70-85	Dr-L(Cb), Dr-Ca(Lb), Dr-L(Ca), Dr-Ca-L, Ca-L-Dr, Dr-L
F1		Weakly to moderately calcareous marine sand and gravel.	Massive ice wedges and segregated ice crystals. High to low ice content.	Thom Bay 1	Brumic Turbic Cryosol (F 3)	70-80	Dr-L, Dr-L(Cb), Dr-Ca-L, Dr-Ca, Dr-L
F2		Less than 1.5 m of weakly to moderately calcareous marine sand over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Thom Bay 2	Brumic Turbic Cryosol (F 3)	70-80	Dr-L, Dr-L(Cb), Dr-Ca-L, Dr-Ca, Dr-L
F3		Less than 1.5 m of weakly to moderately calcareous marine sand and gravel over glacial till.	Massive ice wedges and segregated ice crystals. High to low ice content.	Thom Bay 3	Brumic Turbic Cryosol (F 3)	70-80	Dr-L, Dr-L(Cb), Dr-Ca-L, Dr-Ca, Dr-L
A1		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.	Arrowmouth River 1	Brumic Turbic Cryosol (F 3)	45-50	Dr-L, Dr-L(Cb), Dr-Ca-L, Dr-Ca
A2		Noncalcareous to weakly calcareous silty clay to clay marine deposit.	Ice lenses, segregated ice crystals and vein ice. High ice content.	Arrowmouth River 2	Brumic Turbic Cryosol (F 3)	70	Dr-L
A3		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.	Arrowmouth River 3	Brumic Turbic Cryosol (F 3)	40-50	Dr-L, Dr-L(Cb), Dr-Ca-L, Dr-Ca
A4		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.	Arrowmouth River 4	Brumic Turbic Cryosol (F 3)	35-40	Dr-L
S1		Noncalcareous marine silt.	Ice wedges and segregated ice crystals. Low to high ice content.	Hecher River	Brumic Turbic Cryosol (F 3)	70-80	Dr-L, L-Dr, Dr
S2		Less than 1.5 m of noncalcareous marine gravel over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Hecher River	Brumic Turbic Cryosol (F 3)	70-80	Dr-L, L-Dr, Dr
S3		Less than 1.5 m of noncalcareous marine sand over glacial till.	Ice wedges and segregated ice crystals. Low to high ice content.	Hecher River	Brumic Turbic Cryosol (F 3)	70-80	Dr-L, L-Dr, Dr
S4		Noncalcareous marine sand.	Massive ice wedges and segregated ice crystals. High to low ice content.	Kellett River 1	Brumic Turbic Cryosol (F 3)	35-70	Dr-L, Dr-Ca, Dr-M-L
S5		Less than 1.5 m of noncalcareous marine sand over marine clay.	Massive ice wedges and segregated ice crystals. High to low ice content.	Kellett River 2	Brumic Turbic Cryosol (F 3)	80-90	Dr-L
S6		Less than 1.5 m of noncalcareous marine sand over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Kellett River 3	Brumic Turbic Cryosol (F 3)	35-70	Dr-L, Dr-Ca, Dr-M-L
S7		Less than 1.5 m of noncalcareous marine sand over glacial till.	Massive ice wedges and segregated ice crystals. High to low ice content.	Kellett River 4	Brumic Turbic Cryosol (F 3)	35-70	Dr-L, Dr-Ca, Dr-M-L
S8		Less than 1.5 m of noncalcareous marine sand over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Kellett River 5	Brumic Turbic Cryosol (F 3)	35-70	Dr-L, Dr-Ca, Dr-M-L
F1		Noncalcareous sand to sandy loam glacial till.	Segregated ice crystals and ice lenses. Medium to low ice content.	Pelly Bay 1	Brumic Turbic Cryosol (F 3)	75-80	L-Dr, L-M
F2		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	Brumic Turbic Cryosol (F 3)	50-55	Ca-M-L, Dr-L-Ca, Dr-Ca-L, Dr-Ca
F3		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 3	Brumic Turbic Cryosol (F 3)	50-55	Ca-M-L, Dr-L-Ca, Dr-Ca-L, Dr-Ca
S1		Noncalcareous sand and gravel.	Ice wedges and segregated ice crystals. Low to high ice content.	Stinson Lake	Brumic Turbic Cryosol (F 3)	70-70	Dr-L, L-Dr, Dr
S2		Less than 1.5 m of noncalcareous sand and gravel ice contact and glacioluvial material over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Stinson Lake 2	Brumic Turbic Cryosol (F 3)	70-90	L-Dr, L-M, Dr
S3		Weakly calcareous to noncalcareous recent sandy siltstone.	Ice lenses and segregated ice crystals. Low ice content.	Stinal Point 1	Brumic Turbic Cryosol (F 3)	90	Dr
S4		Weakly calcareous to noncalcareous recent sandy siltstone.	Ice wedges, ice lenses and segregated ice crystals. Medium to high ice content.	Stinal Point 2	Brumic Turbic Cryosol (F 3)	60-80	L-Dr, Ca-M-Dr, Dr-L
S5		Less than 1.5 m of noncalcareous to weakly calcareous marine sand and gravel over carbonaceous bedrock.	Segregated ice crystals. Low ice content.	Ellice Hills 1	Brumic Turbic Cryosol (F 3)	70-75	Dr-L, Dr-L(Cb), Dr-Ca-L, Dr-Ca
M1		Moderately to strongly calcareous, sandy loam to silty clay loam glacial till.	Segregated ice crystals and vein ice, some ice lenses in poorly drained areas. Medium to low ice content.	Mestak 1	Brumic Turbic Cryosol (F 3)	60-90	Dr-Ca-L, Dr-L-Ca(Lb), Dr-Ca-L, Dr-Ca, Dr-Ca-M(Lb)
M2		Less than 1.5 m of moderately to strongly calcareous, sandy loam to silty clay loam glacial till over carbonate bedrock.	Segregated ice crystals and vein ice. Medium to low ice content.	Mestak 2	Brumic Turbic Cryosol (F 3)	60-90	Dr-Ca-L, Dr-L-Ca(Lb), Dr-Ca-L, Dr-Ca, Dr-Ca-M(Lb)
M3		Less than 1.5 m of moderately to strongly calcareous, sandy loam to silty clay loam glacial till over Precambrian bedrock.	Segregated ice crystals. Low ice content.	Mestak 3	Brumic Turbic Cryosol (F 3)	60-90	Dr-Ca-L, Dr-L-Ca(Lb), Dr-Ca-L, Dr-Ca, Dr-Ca-M(Lb)
Dr		Over-saturated lenses of sandstone and siltstone, quartz as an essential constituent, and calcareous and mafic minerals, nodules, veins of quartz and granite gneiss.		Precambrian	Granite		



## BIOPHYSICAL LAND CLASSIFICATION RAE STRAIT EAST

Biophysical land classification field work was carried out in 1976 and maps 1975 by C. TAMMOCAI, Canada Soil Survey, University of Manitoba, Winnipeg, Manitoba, A.B. ROSS, J.A. WETTERVILLE and R.A. BRADSHAW, Geological Survey of Canada, Ottawa.

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Notes: (1) Soil classes are assumed to be complex unless otherwise shown. (2) Drainage distribution: The percentage of each drainage class is indicated by a double number following the drainage symbol. (3) Soil Classification: See Proc. of the Ninth Meeting of the Canada Soil Survey Committee, Dept. of Soil, Saskatoon, 1974, p. 346-350. (4) Date of this report: July 25-31, 1976. (5) Elevation in feet above Mean Sea Level.