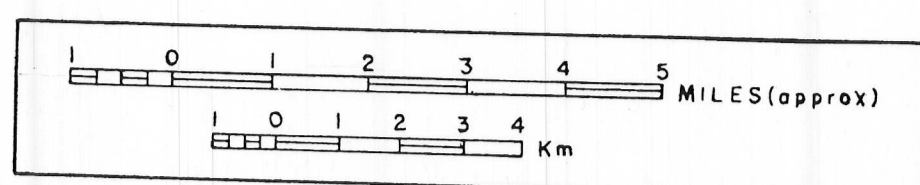


# SURFICIAL GEOLOGY AND GEOMORPHOLOGY SOMERSET ISLAND

## MAP 1

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### EXPLANATION OF MAP SYMBOLS



UNCONTROLLED PHOTOMOSAIC BASE

- DOMINANT TEXTURE**
- r - rock rubble
  - g - gravel
  - s - sand
  - f - silt and fine sand
  - t - clay to fine sand
  - i - till
- BEDROCK TYPE**  
(superscript)
- g - granitic
  - c - carbonate
  - s - sandstone
  - sh - shale
  - cgj - conglomerate
  - ES - Eureka Sound Formation
- ORIGIN**
- M - morainal
  - I - ice-contact outwash
  - F - proglacial outwash
  - ll - marine
  - D - detritic
  - A - alluvial (inactive)
  - A - alluvial (active)
  - R - bedrock
  - W - weathered product
- MORPHOLOGY**
- p - plain
  - m - rolling
  - h - hummocky
  - r - ridged
  - t - terraced
  - k - kettled
  - f - fan
- MORPHOLOGIC MODIFIER**
- D - dissected
  - W - washed
- RELIEF CLASS**
- 1 - less than 5 metres
  - 2 - 5 to 20 metres
  - 3 - 20 to 50 metres
  - 4 - greater than 50 metres
- SLOPE CLASS**  
(numeric superscript)
- 1 - less than 5 degrees
  - 2 - 5 to 15 degrees
  - 3 - 15 to 35 degrees
  - 4 - greater than 35 degrees

- Glacial striae (ice direction known, not known)
- Drumlin, drumlinoid, fluting (ice direction indicated, not indicated)
- Crag - and - tail (ice movement in direction of arrow)
- Moraine ridge
- Esker (direction of flow assumed, uncertain)
- Meltwater channel (large, small)
- Abandoned beach ridge
- Escarpment
- Retrogressive thaw-flow slide
- Ice wedge polygons (areas known to contain ice wedges)
- Rock glacier

### COMPOSITE UNITS

- / first of units covers more than 80% of total unit area
- first of units covers 60 - 80% of total unit area
- = units are of roughly equal proportions

Note: units which comprise less than 5% of the total area of another unit are not mapped

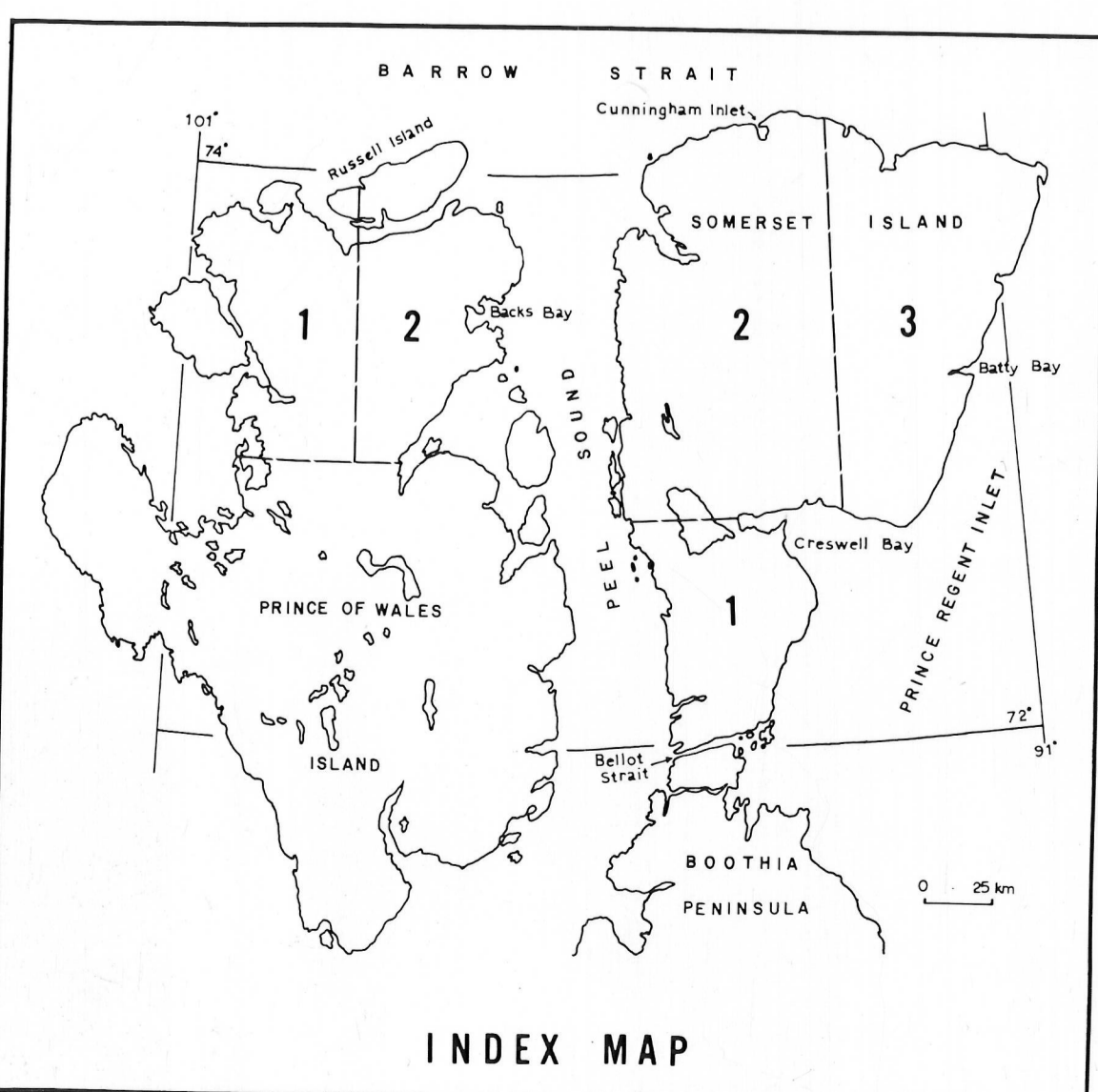
### STRATIGRAPHY

Veneer units (less than 1.5 metres thick) are indicated by the lower case letter "v" after the generic symbol. A horizontal line separates the veneer unit symbols from the symbols representing the underlying unit.

### EXAMPLE

origin stratigraphy  
texture **IMW-srW** - morphologic modifier  
bedrock type **CRm3m2** - slope class  
morphology - relief class

Describes an area which consists of gently rolling carbonate and shale bedrock with macroscopic relief of 20 - 50 m and slopes commonly less than 5°. Superimposed on this gently rolling landscape occur lower bedrock hills (relief 5-20 m) with steeper slopes of 5 - 15°. About 60 - 80% of the area is covered by a veneer (less than 1.5 m) of till; the remainder (20 - 40% of the area) is covered by a veneer of silty rubble produced by weathering of the bedrock. The entire area was once below water. This has to some extent modified the original materials through sorting and/or redeposition.



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