

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

SHEET 11 P 11

1:50000 SURFICIAL GEOLOGY MAP SERIES - ISLAND OF NEWFOUNDLAND
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GENETIC OR PROCESS/ENVIRONMENT CATEGORIES OF TERRAIN CLASSIFICATION

| | R ROCK | C COLLUVIAL | T (Hill) MORAINAL | F FLUVIAL | GF GLACIOFLUVIAL | L LACUSTRINE | M MARINE | O ORGANIC | E EOLIAN |
|----------------------|---|---|--|----------------|---------------------|---|----------------|--------------------|-------------|
| geomorphic modifiers | | | | | | | | | |
| c concealed | obscured only by vegetation | - | - | - | - | - | - | - | - |
| w 'weathered' | fractured, broken (felsic) | - | winnowed, "washed" and subdued by wave action | - | - | - | - | - | blowouts |
| e eroded | channelled by former streams of glacial meltwater, in a braided or parallel pattern | - | - | - | - | - | - | - | - |
| gullied | dissected by modern ravines in a dendritic pattern | - | - | - | - | - | - | - | - |
| k 'collapsed' | karst | - | kettled | - | kettled | kettled | - | - | - |
| p plain | plain | plain | plain | floodplain | outwash plain | plain | plain | 'high bog' | plain |
| v veneer | - | thin enough - usually less than 10 feet thick - to reveal geomorphic fabric of underlying formation | - | - | - | - | - | - | - |
| r ridged | corrugated with parallel stratification ridges, igneous and tectonic foliation | terraces | transverse elements; end, recessional, ribbed, de Geer, moraines | point bars | eskerline complex | beach bars, strand-lines and wave-cut benches | - | string bog | dunes |
| h hummocky | - | - | ablation/mud chaotic disintegration moraine | - | kames | - | - | palsa | dunes |
| l lineated | fractured | solifluction lines | longitudinal elements: drumlins, fluting, crag-and-tail hills | - | - | - | - | - | - |
| d delta | - | - | - | meander scars | - | - | - | vegetation stripes | - |
| f fan | - | - | - | delta | - | delta | - | - | - |
| a apron | - | scree slope | - | - | - | apron | apron | - | - |
| t terrace | - | subplanation terrace; bench | - | terrace; bench | kame terrace | terrace; bench | terrace; bench | - | - |

SYMBOLS

| | |
|--|---|
| | Boundary of terrain units: defined, approximate, transitional |
| | Longitudinal ice-flow features |
| | Drumlin, drumlinoid, fluting |
| | Crag-and-tail hill |
| | Ridge moutonnée |
| | Striation |
| | Transverse ice-flow features |
| | Crestline of end moraine: prominent and continuous, subdued and broken |
| | Ribbed moraine, de Geer moraine, minor moraine |
| | Esker, crevasse filling |
| | Solifluction lines in colluvial and organic terrain |
| | Stratification ridges in sedimentary and volcanic rocks; igneous and tectonic foliation |
| | Depressional lineament along fracture or fault trace |
| | Abandoned channel of former meltwater stream |
| | Emergent shorelines of former proglacial lake or marine submergence |
| | Landslide scar |
| | Scarp of terrace, bench, delta |
| | Marl sediment in lake or pond |
| | Location of sample |
| | Spring |
| | Sinkhole, pond |
| | Location of radiocarbon-dated organic material |

EXPLANATORY NOTES

COMPLEXES
Where two or more classes of terrain are interspersed in a mosaic or repeating pattern on a scale too small to warrant meaningful differentiation, the proportion of each component in the combination is given in a three-position designation set off by slashes. For example "Tc/R" means that at least 60% of the area is underlain by thin till, with up to 40% boggy areas, and less than 15% scattered rock outcrops. Rc/R indicates more than 60% bedrock concealed by vegetation and less than 15% outcrop.

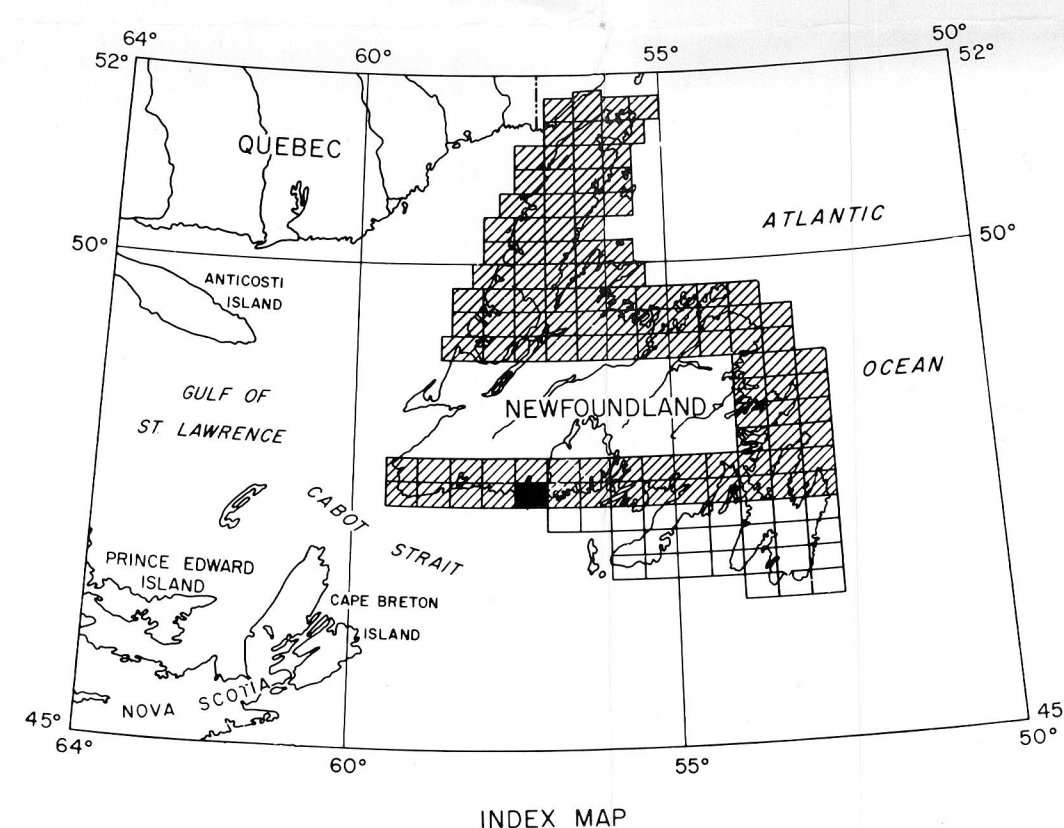
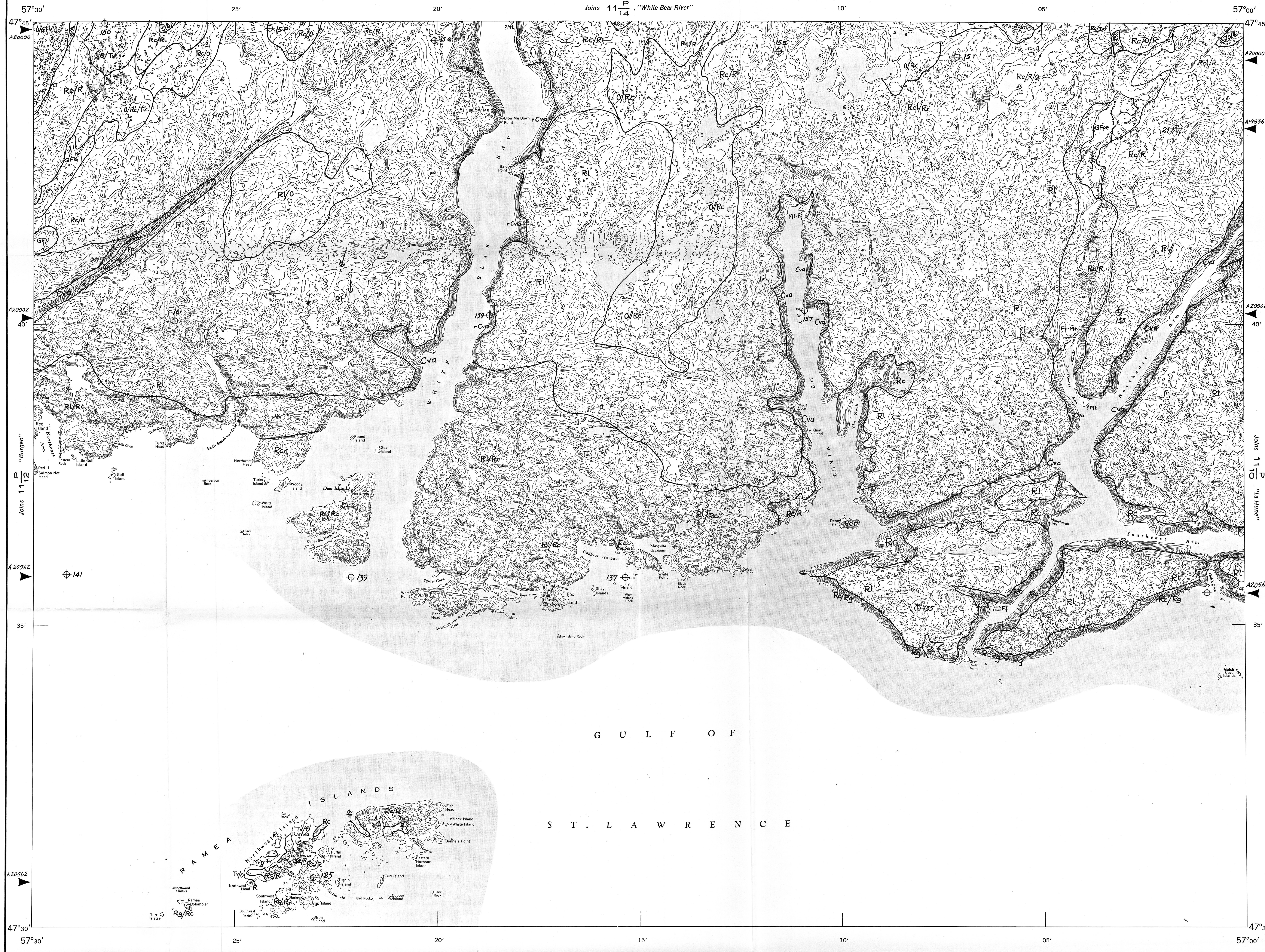
MORPHOLOGIC OVERPRINT
Where a sequence of geomorphic processes has produced a multi-aspect or compound terrain fabric, the geomorphic modifier surfaces are appended in the inferred order of superposition. "Toda" means that a veneer of till has been moulded into a meander or drumlinoid form, then mantled with hummocky till during ablation, and finally channelled by former meltwater streams.

TRANSITIONAL ASSOCIATIONS
Locally, two or more terrain units are juxtaposed by reason of related origin, temporal sequence, or ambiguous geomorphic distinction. Such situations are identified by a compound designation marked by a hyphen. Examples are: an outwash plain that slopes down and is transitional to a marine terrace ("Cdp - M") or kame and kettle glaciofluvial topography that blends with hummocky disintegration moraine ("Gh - Tm").

STRATIGRAPHIC SEQUENCE
Natural exposures are rare, except along coasts, and are minimally shallow along roads, but where materials of different origin or texture are known to be superimposed, or can be reasonably confidently inferred, the sequence is indicated in conventional order using horizontal separators, such as:
"Ov"
"Tc", which indicates that thin muskeg has developed over a marine mantle on drumlinoid till.

TEXTURAL MODIFIER
Ordinarily, textural characteristics are implied by the genetic morphologic assignment, but occasionally more specific grain-size information is available either from ground observation or by inference from distinctive morphology, or where texture differs significantly from that usually associated with a particular process, as in the case of a purely sand esker, or a gravelly alluvial plain. Textural designations are: "v" for rocks and rubble; "g" for gravel and sand; "s" for sand; "st" for fine sand and silt; "cl" for silt and clay. Combinations such as "gs" signify a stony pelite, like the sort of "till" produced by the accumulation of ice-rafted debris at the terminus of a floating glacier.

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SURFICIAL GEOLOGY

RAMEA

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1 1/2 0 1 2 3
MILE MILES

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