

**SURFICIAL MATERIALS AND GEOMORPHIC FEATURES**

**LEGEND**

**QUATERNARY**

- 8 **ORGANIC DEPOSITS:** peat and muck underlying bogs and fens which range in thickness from more than 10 m in plateau bogs on the lowlands to less than 1 m in slope fens on the highlands.
- 7 **COLLUVIAL DEPOSITS:** material emplaced by gravity sliding and creep on steep rocky slopes, consisting mainly of blocky rubble at the foot of falling rock cliffs; 7a: undivided talus and cliffs; 7b: thick apron on lower slopes produced by coalescence of adjacent debris fans; may contain muddy siltification and debris-flow layers; may overlie till; locally re-mobilized as rock-glaciers most of which are inactive.
- 6 **FLUVIAL DEPOSITS:** mainly sandy gravel, 1-20 m thick, underlying modern floodplains, deltas and fans; may include small remnants of Holocene degradational terraces; 6a: alluvial plains and fans; 6b: alluvial fans.
- 5 **MARINE DEPOSITS:** gravel, sand, silt, and clay, 1-30 m thick, laid down in beach, delta, and deepwater environments during postglacial submergence.
- 3c, 3d **Beach gravel and sand in ridges, swales, and plains including modern marine deposits at the present coast; 3c: bulky accumulations up to 30 m thick, as beach-ridge complexes and as terrace remnants of deltas fossiliferous. Commonly overlies Unit 3a; 3d: discontinuous veneer of beach gravel over till and bedrock.**
- 3b **Glaciomarine deltas composed of ice-contact outwash deposited at marine limit; locally fossiliferous.**
- 3a **Stony mud varying in thickness up to 20 m that was deposited in water depths of 50-100 m mainly near retreating glaciers; includes submarine meltout till deposited adjacent to subaqueous end moraines, and glaciomarine drift deposited by melting ice bergs; fossiliferous.**
- 4 **GLACIOFLUVIAL DEPOSITS:** gravel with sand, 5-50 m thick, laid down by meltwater beneath and in front of a glacier.
- 4b **Outwash, 5-50 m thick, deposited on former floodplains and fans; locally includes postglacial degradational terraces; may overlie and grade laterally to marine deposits.**
- 4a **Ice-contact stratified drift as hummocks and ridges (dunes, kame moraines, crevasse fillings and small eskers) cut by meltwater channels, and locally interspersed with undifferentiated till knolls.**
- 3 **TILL:** nonsorted debris up to 30 m or more in thickness, generally thin, bouldery and sandy over Precambrian rock highlands, thicker and more silty over sedimentary rock lowlands; locally clayey where deposited subaqueously as major end moraines.
- 3b **Till as continuous blanket, averaging 2-10 m thick, in the form of drunlinized or hummocky plains, or major end moraine ridges and associated glaciomarine drift; locally fossiliferous.**
- 3a **Till as discontinuous veneer, generally less than 2 m thick, with numerous rock outcrops and interspersed bedrock areas.**
- 2b **Till of variable thickness and composition with morainic topography partly subdued by siltification and mass wasting; includes undivided areas of bedrock partly buried by sandy debris (grus) and incipient blocky rubble (feisenmer) produced by frost action.**
- 2a **Till of variable thickness and composition, where all traces of glacial relief have been graded by protracted siltification and where interspersed rocky areas have been reduced to mature blockfields (feisenmer) from which small tors locally project.**
- 1 **RESIDUUM:** rubble and grus produced by disintegration of bedrock in place; possibly not covered by Quaternary glaciers.

**PRE-QUATERNARY**

- Rc **Bedrock areas interspersed with undivided patches of thin till veneer.**
- Rb **Bedrock areas largely obscured by forest vegetation in which patches of till may be present mainly in low areas.**
- Ra **Bare bedrock denuded by glaciation and by modern and postglacial nivation and marine washing.**

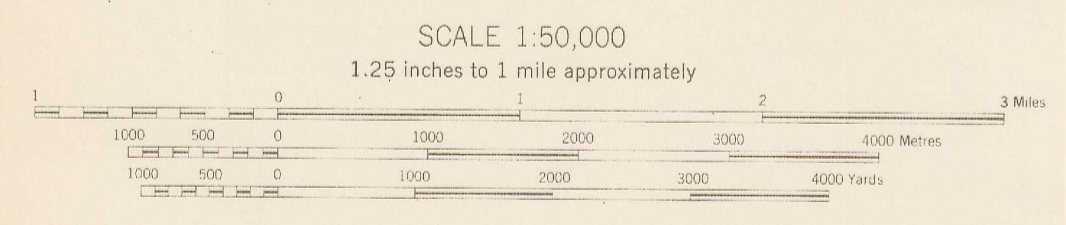
**SYMBOLS**

- Geological boundary (defined, approximate, inferred)
- Ridge following rock structures; sedimentary stratification, metamorphic foliation
- Rock outcrop
- Cirque; pre-last glaciation
- Drumlin, fluting; directional, non-directional
- Crag-and-tail hill (rock hill with drift lodged on down-glacier side)
- Roche moutonnée, rock drumlin, stoss-and-lee (ice-streamlined bedrock)
- Striation (numbers indicate relative age based on cross-cutting relationships)
- Esker
- Crevasse filling (ice-contact gravel ridge)
- Kame, isolated gravel knoll
- Kettle, ice-block depression
- End moraine; sharp-crested, subdued or buried by marine action
- Minor moraine, ribbed moraine
- Ice-contact face (teeth facing glacier margin)
- Meltwater channel; large and small proglacial, submarginal (with barb on uphill side)
- Marine limit; defined, approximate
- Proglacial and postglacial lake shoreline defined, approximate
- Raised beach
- Terrace edge (marine and fluvial)
- Sinkhole; single depression, line of sinks along stratification
- Fault or fracture with sharp edges (postglacial reactivation?)
- Rock glacier (inactive)
- Avalanche track
- Mudflow, landslide, slump (in till and marine clay)
- Sacking (large-scale cliff failure in bedrock)
- Siltification terraces, lobes, stripes
- Nivation hollow
- Stadial boundary (upper and outer glacial limits); Late Wisconsinan, older
- Composition, genesis or thickness of material uncertain
- Carbon-14 age determination (date, material, lab number, elevation)
- Fossil locality (Quaternary marine shells with GSC collection number)
- Floot occurrence (transported mineralized debris)



**SHEFFIELD LAKE  
 NEWFOUNDLAND**

- REFERENCE**
- Roads: hard surface, all weather... (Scale: 1:2500)
  - loose surface, all weather... (Scale: 1:5000)
  - loose surface, dry weather... (Scale: 1:10000)
  - winter, cart track... (Scale: 1:20000)
  - trail or portage... (Scale: 1:40000)
  - Railway: narrow gauge, single track... (Scale: 1:10000)
  - Boundaries: provincial (monument)...
  - county or district... (Scale: 1:100000)
  - Power transmission line... (Scale: 1:100000)
  - Telephone line... (Scale: 1:100000)
  - Horizontal control point... (Scale: 1:100000)
  - Building... (Scale: 1:100000)
  - School; Post Office... (Scale: 1:100000)

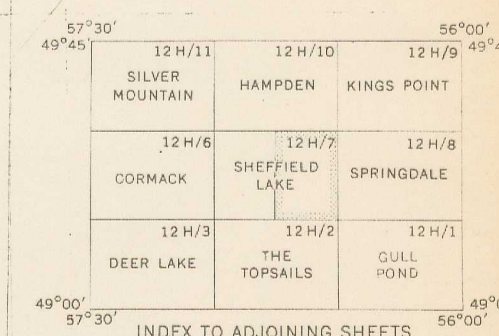


- REFERENCE**
- Church; Cemetery... (Scale: 1:10000)
  - Small ponds... (Scale: 1:10000)
  - Streams: intermittent or dry... (Scale: 1:10000)
  - indefinite... (Scale: 1:10000)
  - Marsh or Swamp... (Scale: 1:10000)
  - Foreshore flats... (Scale: 1:10000)
  - Rocky reef... (Scale: 1:10000)
  - Rock bare or awash... (Scale: 1:10000)
  - Lighthouse... (Scale: 1:10000)
  - Ferry... (Scale: 1:10000)
  - Breakwater... (Scale: 1:10000)
  - Pier, dock or wharf... (Scale: 1:10000)
  - Cliff... (Scale: 1:10000)
  - Contours... (Scale: 1:10000)
  - Forest... (Scale: 1:10000)

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 COMMISSION GÉOLOGIQUE DU CANADA  
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**SHEFFIELD LAKE  
 12 H/7 EAST HALF**

Geology and cartography by Douglas R. Grant, 1985, 1986