

## PRELIMINARY GLACIAL MAPPING OF THE ACKLEY GRANITE - SOUTH HALF

by

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The southern portion of the Ackley Granite (Figure 1) covering parts of map areas 1M/10, 1M/11 and all of 1M/14 and 1M/15 was briefly surveyed following completion of an airphotography interpretation of the surficial landforms of the area.

The terrain in the area varies from barren outcrop with a thin or discontinuous mantle of glacial drift in the south and west to thick linear drift deposits and/or transverse (rib) moraine interspersed by substantial bog deposits in the central and northern parts of the study area.

Glacial transport throughout the Wisconsin appears to have been dominated by a general southern (180) glacial movement with an easterly or westerly component depending upon location.

In the eastern part of the study area (Terrenceville to Dunn's Pond area and north), this movement had an early easterly component between 140 and 160. During the later phases, this flow was either southerly (175-195) or more westerly (200-215) directed as the waning ice mass became more topographically controlled and was drawn

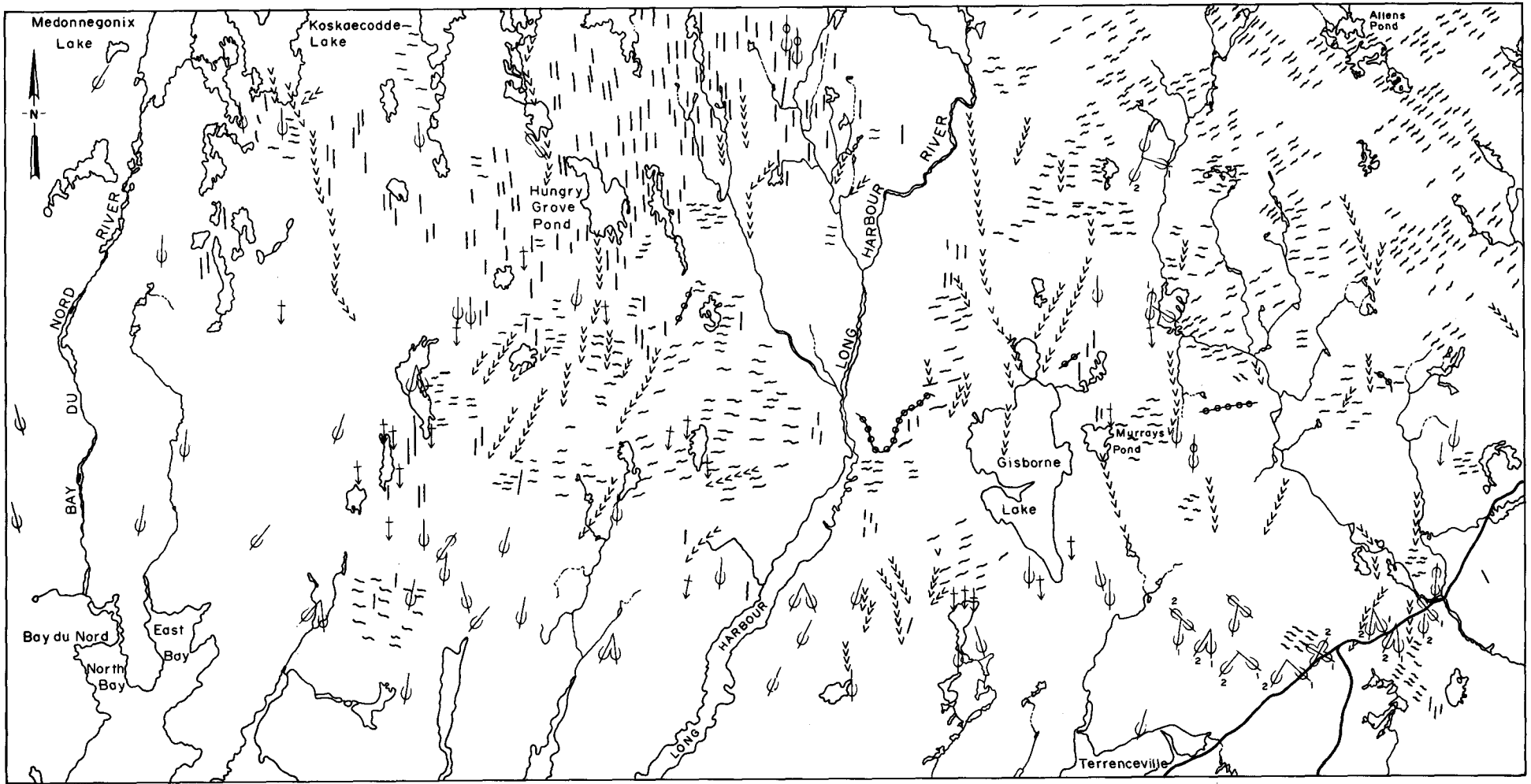
down into Placentia Bay and Fortune Bay respectively.

Flow in the western part of the area was dominantly southerly with minor variation due to topographic control or as the result of draw down into the many fjord-like embayments along the south coast.

The implications of glaciation on mineral exploration are as follows:

(1) West of Gisborne Lake, glacial transport has been dominantly to the south, the major difficulty would be determining the distance of transport when boulder tracing, etc.

(2) East and north of Gisborne Lake, the major landforms have a dominant east of south alignment, whereas striae record not only that movement but also later more topographically controlled movement to either the south or southwest, depending upon location. Prospecting and mineral exploration in this heavily drift covered area would be complemented by more detailed regional surficial and glacial mapping than was possible through this limited study.



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FIGURE 1

Preliminary glacial mapping of the Ackley Granite - south half,  
 South Central Newfoundland  
 D.G.Vanderveer 1981



LEGEND

- Major transverse moraines . . . . .
- Minor transverse moraines . . . . .
- Drumlin moraines . . . . .
- Drumlinoid-linear moraines . . . . .
- Crag and tail hills . . . . .
- Esker (direction known) . . . . .
- Stoss and lee on outcrop . . . . .
- Glacial striae (direction known) . . . . .
- Glacial striae (direction unknown) . . . . .
- Striae - 1 oldest . . . . .