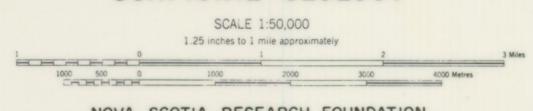


The western half of the 20 0/16 map sheet consists entirely of water, while the eastern half is only about three-fifths land. The bedrock consists of the generally impure slates, quartzites, and greywackes of the Meguma Group, as well as the meta-volcanics and sediments of the Silurian and the Devonian granite. These rocks outcrop frequently over the whole area and only in the extreme southeastern part does any of the Devonian batholithic granite occur. The lakes are numerous and generally shallow, attesting to their partially or completely glacial origin. The topography is that of an undulating peneplain which has been modified by glacial action. The coastline is one of recent submergence.

DESCRIPTIVE NOTES

YARMOUTH 20 0/16E

SURFICIAL GEOLOGY



NOVA SCOTIA RESEARCH FOUNDATION CORPORATION

THE MAD DRUMLINS

The map area is generally till covered and the thickness of the drift varies considerably. Some areas have only a thin veneer of till, others have from a few inches to several feet of drift cover, and other parts have the drift formed into small to medium sized drumlins. The till varies in colour from readish to greyish, attesting to its varying sources. The material found in the drift has been derived largely from the bedrock in the area, although travellers in the form of sand-to-boulder-sized debris from North Mountain and possibly from New Brunswick are very common.

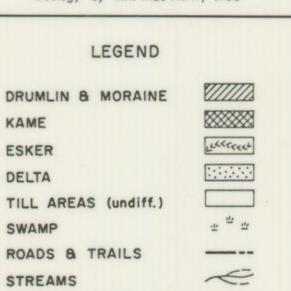
Eskers, kames and deltas from the decaying ice sheets of the Wisconsin, and possibly from some of the earlier glacial stages, are common in the southern half, extending from Brooklyn to Lover Melbourne and Comeau Hill. These eskers sometimes carry the roads in this area. Occasional eskers have been buried by effluvient materials from the local ice sheet and by post-glacial debris and them are found in bog or marsh areas.

Terraces are to be found, but by ocean waters. These are very striking in the Cape Fourchu area, especially just to the north of the lighthouse where the waters have cut three distinct benches. An excellent view of these may be obtained from the top of the lighthouse. Other terraces may be found on the eastern side of Milton Lake or Lake Milo. In the S. miford - Short Beach area a terrace may be found which is largely drift covered. These terraces are all considered to be pre-Wisconsin.

Striae have been recorded northwest of Lakeside but none has been noted in any other areas. This may be due to the erosive action of water and ice on a rock which does not retain striae under those conditions.

From all the present evidence, it is apparent that the general ice movement was from north to south, with the local ice sheets of the Lake Wisconsin moving from a more northeasterly direction. Post-Pleistocene isostatic recovery is clearly shown in the elevated deltas.

The ice sheet was quite thin in this area, as is generally the case in southwestern Nova Scotia and no terminal debris is found on the present emerged land.



GLACIAL STRIAE

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