

OF
THE PROVINCE OF
NOVA SCOTIA

SCALE
1:500,000 or 7.89 miles to 1 inch

MINES AND ENERGY BRANCHES

Minister	Deputy Minister
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The Surficial Geology of the Province of Nova Scotia is available in digital form through Land

This map depicts the distribution and nature of Quaternary glacial and other surficial deposits in Nova Scotia. Outlined on the map is the glacial history of Nova Scotia. Surficial deposits form the parent materials for most soils in Nova Scotia. The data on this map are an aid to environmental studies, mineral exploration, agriculture, forestry and construction.

Colours on Figure 1 refer to lithogenetic units described in the legend (i.e. green units are till orange – glaciofluvial, etc.). Screened regions on the diagram imply ice-free conditions prevailing

Intensely oxidized deposits (Brideewater, Mabou Conglomerates) may predate the earlier

It is not certain when glaciers first developed in the Wisconsinan. In northern Cape Breton Island

The earliest Wisconsin ice flows in Nova Scotia were eastward (Phase 1a, Fig. 2) then southeastward (Phase 1b, Fig. 2). Several widely-spaced striation sites reveal a distinct eastward flow

The second major ice flow trend (Phase 2, Fig. 2) was southward and southwestward from the

During the next ice flow event (Phase 3) granites from the Atlantic Uplands Physiograph

The final phase of ice flow resulted from remnant ice caps developed from the Scotian Ice Divide

At the end of the Late Wisconsinan the sea encroached into the Bay of Fundy and ice retreated rapidly through calving. Glaciomarine deltas formed along the coast, dated from 14,300

By 10,000 years ago all remaining ice melted and the climate warmed rapidly. Spruce forests were established in the early post-glacial period.

