

1998 progress report for the Eastern Shore Project

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Background

Over the past 150 years a tremendous wealth of information has been accumulated on the geology and mineral deposits (particularly gold) of the Meguma Terrane in southern Nova Scotia. This information resides primarily: (1) as publications, open files and mineral inventory files at the Nova Scotia Department of Natural Resources and Geological Survey of Canada, (2) in university libraries as research projects and theses, (3) as brochures, papers, journal and various magazine articles and abstracts and, (4) as unpublished data files still residing with numerous research scientists. Because of the continued interest in mineral exploration and the increased need for sound geological information, a compilation and synthesis project was designed to evaluate this information. Two fundamental 'product-driven' results are being sought over the five year duration of this project: (1) new 1:50 000 scale digital geological maps and (2) compilation and synthesis of information on 19 gold deposits having historical production >25,000 oz. Other deposits may also be examined. In addition, the authors will work with the Mineral Inventory group to verify and update all known mineral occurrences in the area.

Scope and Area

This project encompasses all geological and related information, including the compilation and synthesis of mineral deposits along the Eastern Shore. Digital databases will be developed for selected geological, petrographic, whole-rock geochemical and isotopic information and these databases will be made available through departmental publications and GIS services.

The project area is divided into five parts (Fig. 1) with the focus of Year 1 on the most easterly part of the area (east of Longitude 62°00'). This area involves parts of NTS map areas 11F/03, 04, 05 and 06.

1998/99 Work Plan

The work plan for the first year's activities in this area includes:

- (1) map compilation of the digital bases and overlay geology,
- (2) compilation and verification of all drillhole location data,
- (3) geo-referencing of pertinent assessment files in digital form,
- (4) location of all mineral deposits and occurrences on the base map,
- (5) construction of database files for compilation of Forest Hill, Isaac's Harbour, Lower Seal Harbour, Upper Seal Harbour and Wine Harbour gold districts, and
- (6) synthesis of mineral deposits.

Status

Currently, the project is running slightly behind schedule due to previous time commitments to other work. The following is a brief summary, in point form, of the current status. (1) The initial digital base map and geology compilation for the area is complete with minor editing and checking still required. (2) Verification of drillhole locations based on original files is complete. (3) The digital outlines of relevant assessment file locations are complete with required editing. (4) Mineral deposit locations are not yet entered on the map; however, this information will be compiled in the near future with the aid of information in the abandoned mines database. (5) Databases for individual mineral deposits are being compiled. (6) Synthesis of mineral deposits has not yet started.

Although the project is behind, it is felt that significant advances will be made in the upcoming fiscal year.

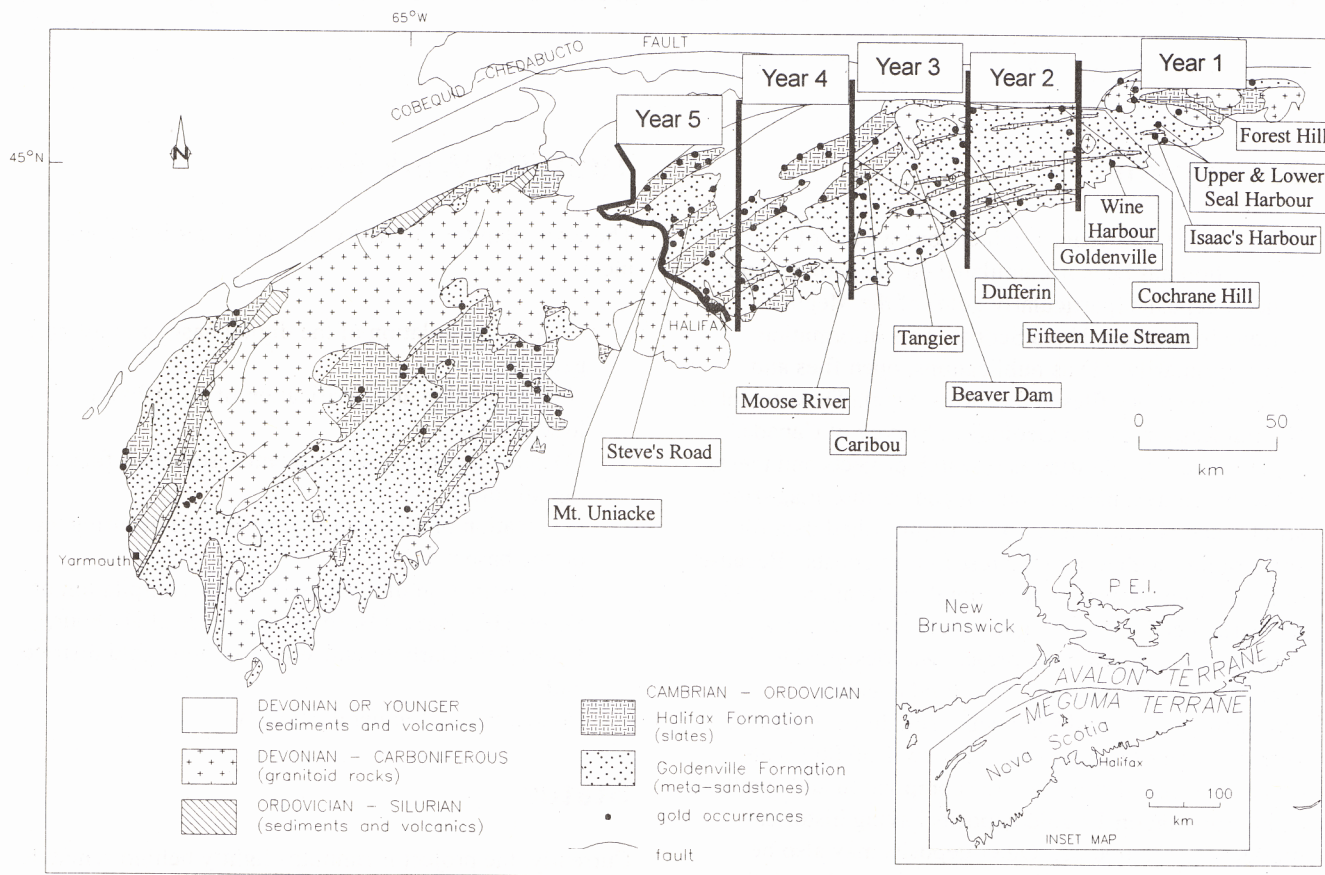


Figure 1. Simplified geological map of the Meguma Terrane in Nova Scotia showing the planned progress of the Eastern Shore Project and former gold districts.