

**Magdalen Basin NATMAP program preliminary 1:250 000 compilation of  
central Nova Scotia and Prince Edward Island**

G. Lynch<sup>1</sup>, P.S. Giles<sup>2</sup> and C. Deblonde<sup>1</sup>

<sup>1</sup>*Geological Survey of Canada, Quebec Geoscience Centre, 2535 boulevard Laurier,  
C.P. 7500, Sainte-Foy, Québec G1V 4C7, Canada*

<sup>2</sup>*Geological Survey of Canada (Atlantic), P.O. Box 1006, Dartmouth, Nova Scotia B2Y 4A2, Canada*

One of the objectives of the Magdalen Basin NATMAP program is the digital compilation at 1:250 000 scale of new and existing geological maps encompassing northern Nova Scotia, Prince Edward Island, and southeastern New Brunswick. Broad stratigraphic correlations are effectively outlined at this scale, and the large scale nature of important structures becomes evident, while many of the details established at 1:50 000 are still preserved. A new compilation of central Nova Scotia and Prince Edward Island is displayed here and represents the first 1:250 000 scale geological map published from this region. The map draws upon an extensive database and incorporates numerous maps, as well as a wealth of geochronological and paleontological age deter-

minations. The compilation reflects the diversity in the geology of the region, with rocks ranging in age from Proterozoic to Triassic, and also illustrates some of the major structures. Basement rocks are from the Meguma and Avalon terranes, and the Cobequid-Chedabucto fault is the central structural feature. Devonian to Permian cover rocks from the main groupings of the Maritimes Basin cover much of the region. Map production and editing were accomplished using initially Autocad drawing and then Arc-Info GIS programs. Availability of the map in digital format and representation at 1:250 000 will allow for advanced spatial analysis of geological trends with geophysical overlays, which will greatly assist resource exploration as well as research.