

ONE AND A HALF CENTURIES OF PALEONTOLOGICAL RESEARCH: A SELECTIVE BIBLIOGRAPHY OF NEWFOUNDLAND AND LABRADOR FOSSILS

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ABSTRACT

During the past one hundred and fifty years, numerous pieces of geological research have been written that either describe, or make use of, fossils from Newfoundland and Labrador. Some are taxonomic; most, however, utilized fossils as stratigraphic, tectonic or paleogeographic tools. Many of these results are published either as Provincial Government reports or in specialist journals. Others have languished as unpublished theses or provincial and federal mineral-assessment or open-file reports. This has meant that much of the potentially valuable data has been underutilized or ignored. In order that anyone attempting to use fossils as a tool in understanding Newfoundland and Labrador onshore pre-Pleistocene geology may be better aware of the database available to them, a bibliographic compilation of this paleontological research, arranged by tectonostratigraphic regions, is presented here.

INTRODUCTION

Fossils were first recorded from Newfoundland during the middle of the nineteenth century, collections being made from a number of regions including western Newfoundland, the Exploits River and the Avalon Peninsula (Murray and Howley, 1881). Paleontological evidence was the main key in permitting the correlation and classification of lithological units, and also proved critical in deducing much of the complex structure present in most of Newfoundland.

With the development in understanding of plate tectonics, fossils once again proved the key to understanding the evolution of the northeast Appalachians. Recognition of the tectonostratigraphic subdivisions of Newfoundland (Williams, 1964, 1976, 1978a,b, 1979, 1980; Williams and Hatcher, 1982, 1983; Williams *et al.*, 1972, 1974, 1988; Colman-Sadd and Swinden, 1984) relied heavily on paleontological data in combination with other stratigraphic and structural evidence.

Although many papers have been published dealing with the taxonomy and biostratigraphy of faunal assemblages throughout Newfoundland—and their use in correlation, structural interpretation and paleobiogeographic affinity—bibliographic summaries of faunal data for most regions are generally lacking (with a few exceptions such as van der Pluijm *et al.*, 1987 and Elliott *et al.*, 1989 for parts of the Exploits Subzone). Much information has been included only within unpublished field guides or informal reports that are not readily available, and no summary has ever been published for the whole province. Recently, an up-to-date

summary of the paleontology of Newfoundland and its importance for tectonostratigraphic correlation in the Appalachians and Caledonides has been published by Williams *et al.* (*in press*). In this report, an attempt to give a comprehensive listing of published and unpublished reports making reference to Newfoundland and Labrador fossils, is made. Although a careful search has been made, some relevant references may have been missed; should anyone know of additional material, they should inform the authors.

ARRANGEMENT AND AVAILABILITY OF BIBLIOGRAPHY

The bibliography has been arranged by tectonostratigraphic zones for the province. However, southeastern Labrador references have been combined with those for western Newfoundland. The references for the Dunnage and Gander zones are also contained within a single section. In the present work, no attempt has been made to summarize details of fossil groups or geological periods; it is hoped that much of this will be self evident from the titles, although it is recognized that such a feature would be useful, and perhaps this could be added in the future. Anyone who would like a copy of the bibliography in electronic form is encouraged to contact the authors (wdb@zeppo.geosurv.gov.nf.ca or williams@sparky2.esd.mun.ca); the manuscript can be supplied as a wordprocessing document (e.g., Word Perfect, Word) for Atari, Macintosh or MS-DOS, or alternatively can be sent as a compressed file by E-mail. It will also be periodically updated. The updated versions will be available by ftp from zeppo.geosurv.gov.nf.ca.

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