



Geological Survey of Canada
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**BIBLIOGRAPHY OF
QUATERNARY GEOSCIENCE INFORMATION,
BRITISH COLUMBIA**

J.J. CLAGUE

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CONTENTS

3	Abstract
4	Introduction
5	Other sources of information
5	Acknowledgments
6	Part 1: region lists
6	Marine and coastal
44	Terrestrial
163	Part 2: subject lists
163	Economic geology
167	Engineering and environmental geology
194	Geochemistry
205	Geochronology
211	Glaciology
221	Hydrology, fluvial geomorphology
236	Paleontology, paleoecology, paleoclimatology
245	Regional physiography
247	Sedimentology
272	Seismology
274	Soils
284	Stratigraphy, landforms, Quaternary history, glaciation
319	Tectonics, geodynamics
324	Volcanology
329	Bibliographies, inventories
332	Maps
339	Bedrock geology reports containing some background information on physiography, glaciation, and/or Quaternary sediments

Abstract

A bibliography of Quaternary geoscience information for British Columbia has been compiled (cut-off date = December 1986). The bibliography lists published papers, monographs, maps, theses, and readily available manuscript reports concerned with various aspects of the Quaternary Period in British Columbia. Studies of stratigraphy, Quaternary history, geomorphology, paleoecology, sedimentology, glaciation, and landslides constitute the bulk of the catalogued information, but documents in the fields of economic, environmental, and engineering geology, geochemistry, geochronology, glaciology, hydrology, seismology, soil science, tectonics, and volcanology are also included. Company reports, abstracts of papers presented orally at scientific meetings, and documents of restricted availability have been excluded.

The bibliography consists of two parts. The first part includes two master reference lists, one for the offshore and another for land areas. The second part comprises 17 shorter, thematic reference lists.

INTRODUCTION

The growth of Quaternary studies in British Columbia in recent years has resulted in a need for a catalogue of Quaternary geoscience information. An important objective of such an inventory is to provide a basis by which individuals and groups interested in Quaternary geology and related subjects can evaluate their programs and fully utilize existing data.

This bibliography has been compiled in response to this need. It comprises published papers, monographs, theses, maps, and readily available manuscript reports concerned with one or more aspects of the Quaternary Period in British Columbia. The bibliography includes documents issued up to the end of 1986. The emphasis is on Quaternary geology and geomorphology, and most documents in these fields are cited in this bibliography. Only selected papers, theses, and reports in peripheral fields (i.e., hydrology, glaciology, seismology, and hydrology) are included. The main criterion for inclusion is whether or not the document contains information on Quaternary geologic processes, sediments, landforms, or history. For example, soils reports with information on Quaternary parent materials are listed, whereas those concerned with non-geologic aspects of soil science have been omitted. Papers and theses dealing entirely with archaeology, biology, ecology, and oceanography also have been excluded. Although considerable effort was made to include all relevant documents known to the author, many undoubtedly were omitted unintentionally.

Citations in this bibliography are limited to published documents and those unpublished reports and theses readily available to the public, generally through libraries. Documents with trivial amounts of Quaternary geoscience information and abstracts have been excluded. Consultant reports have been omitted because most are not available for general use and because some companies prefer that their reports not be cited in a published bibliography. Likewise, most internal reports and memoranda of limited access and value have been excluded.

The bibliography is divided into two parts. Part 1 consists of two comprehensive lists of documents arranged alphabetically according to author(s), without respect to subject matter. The first list covers the British Columbia offshore (i.e., continental shelf and slope, estuaries, and shorelines). The second list covers land areas. Documents that deal with both offshore and land areas are cited in both lists.

Part 2 comprises 17 subject lists, each arranged alphabetically according to author(s). The subject headings and the main associated topics are:

1. **Economic geology** - placers, industrial minerals
2. **Engineering and environmental geology** - geotechnical investigations, mass wasting, avalanches, erosion, floods, tsunamis, permafrost
3. **Geochemistry**
4. **Geochronology** - papers concerned mainly with geologic age dates or dating techniques

5. **Glaciology** - existing glaciers, historic glacier fluctuations, ice-dammed lakes
6. **Hydrology, fluvial geomorphology** - groundwater, streamflow, hydraulics, channel geometry
7. **Paleontology, paleoecology, paleoclimatology**
8. **Regional physiography**
9. **Sedimentology** - sediments, sedimentation, sedimentary environments
10. **Seismology** - earthquakes, seismic risk
11. **Soils** - parent materials, paleosols
12. **Stratigraphy, landforms, Quaternary history, glaciation**
13. **Tectonics, geodynamics** - tectonophysics, deformation, sea-level change
14. **Volcanology** - volcanic rocks, tephras, volcanism
15. **Bibliographies, inventories**
16. **Maps** - surficial geology, glacial, glacier, physiography, bathymetry, magnetic, side-scan sonar mosaics
17. **Bedrock geology reports containing some background information on physiography, glaciation, and/or Quaternary sediments.**

Many documents are listed under two or more subjects in Part 2. In contrast, some papers and reports in Part 1 do not fall within any of the above categories and thus are not listed in Part 2.

OTHER SOURCES OF INFORMATION

The British Columbia Ministry of Environment has prepared surficial geology ('terrain') and soils maps for parts of the province. These maps are unpublished and thus are not included in this bibliography. However, copies are available upon request from: MAPS-BC, Surveys and Resource Mapping Branch, Ministry of Environment, Parliament Buildings, Victoria, B.C. V8V 1X4. Requests for such maps should include the National Topographic System (NTS) designation for the area of interest.

A wide variety of aerial photographs and topographic maps are available from the Government of British Columbia and Government of Canada. Air photos taken by the Federal Government may be obtained from: National Air Photo Library, Department of Energy, Mines and Resources, 615 Booth St., Ottawa, Ontario K1A 0E9. Provincial air photos and topographic maps are available from MAPS-BC (address above). Index maps showing the locations of air photos are also available from these sources. Federal Government topographic maps may be purchased from: Map Sales Office, Geological Survey of Canada, 100 West Pender St., Vancouver, B.C. V6B 1R8; or Canada Map Office, Department of Energy, Mines and Resources, 615 Booth Street, Ottawa, Ontario K1A 0E9.

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