



GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA

PAPER 77-22

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**BIBLIOGRAPHY OF
MARINE GEOSCIENCE INFORMATION,
PACIFIC REGIONS OF CANADA,
1900-1976**

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COMMISSION GÉOLOGIQUE

J.J. CLAGUE, R.H. GARDNER,
K.E. RICKER AND M.W. DONLEY

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**BIBLIOGRAPHY OF MARINE GEOSCIENCE INFORMATION,
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1900 – 1976**

Abstract

A selective bibliography of marine geoscience information for Pacific regions of Canada has been compiled. Approximately 900 citations are indexed according to subject matter and geographic coverage. The bibliography was prepared while all the authors were with the Geological Survey of Canada.

The inventory area is bounded by Dixon Entrance on the north; the Gulf-San Juan Islands, Juan de Fuca Strait, and the continental margin southwest of Vancouver Island on the south; and by the inlets of mainland British Columbia and the Fraser Delta on the east. Included in this area is the continental margin west of the Queen Charlotte Islands and Vancouver Island, and that portion of the East Pacific Rise west of the continental slope. A large number of the more important studies of abyssal regions of the eastern North Pacific Ocean also are included.

The bibliography comprises published papers, maps, and readily available manuscript reports concerned wholly or partly with marine geology, geochemistry, and geophysics. Studies of Quaternary sediments and the crust beneath the seafloor constitute the bulk of the catalogued information, but maps and papers concerned with seafloor morphology, Quaternary sea level fluctuations, and processes of marine sedimentation and coastal erosion are included. Company reports, abstracts of papers presented orally at scientific meetings, and documents not accessible to the public have been excluded from this bibliography.

Résumé

Une bibliographie sélective de renseignements de nature géoscientifique marine, pour les régions du Pacifique du Canada, vient d'être compilée. Environ 900 citations sont classées selon le sujet et la région explorée. Lorsque la bibliographie a été préparée, tous les auteurs faisaient partie de la Commission géologique du Canada.

La zone d'inventaire est limitée au nord par l'entrée Dixon; au sud, par les îles du golfe San Juan, le détroit Juan de Fuca et la marge continentale au sud-ouest de l'île Vancouver; et à l'est, par les inlets continentaux de Colombie-Britannique et le delta du Fraser. Cette zone comporte également la marge continentale à l'ouest des îles Reine-Charlotte et de l'île Vancouver, et la partie du glaciais du Pacifique est du talus continental. De nombreuses études, parmi les plus importantes, des régions abyssales de la partie est de l'océan Pacifique nord y sont également incluses.

La bibliographie comprend des documents publiés, des cartes et des rapports manuscrits disponibles qui se rapportent totalement, ou en partie, à la géologie marine, à la géochimie et à la géophysique. Les études des sédiments du Quaternaire et de la croûte sous-jacente au fond marin constituent la majeure partie des renseignements catalogués; la bibliographie inclut également les cartes et les documents concernant la morphologie du fond marin, les fluctuations du niveau de la mer au Quaternaire et les processus de sédimentation marine et d'érosion littorale. Cette bibliographie ne comprend pas les rapports de sociétés, les résumés des communications présentés oralement à des rencontres scientifiques ni les documents qui ne sont pas destinés au public.

INTRODUCTION

The growth of marine geosciences in Canada and the increased utilization by man of marine environments have resulted in a need for the cataloguing of existing geoscience information. An important objective of such an inventory is to provide a basis by which individuals and groups interested in marine environments can evaluate their programs and fully utilize existing data.

The Geological Survey of Canada responded to this need in 1973 by compiling, under the direction of K.E. Ricker, a bibliography of marine geologic and related reports for the coastal and offshore regions of western Canada. The initial bibliography by Ricker (Geological Survey of Canada, Open File 197) subsequently was expanded (Open File 276) to include about 1850 published and unpublished papers, reports,

memoranda, theses, and maps dealing mainly with one or more of the following topics: surficial geology, geomorphology, sedimentology, sediment geochemistry, geologic engineering, palynology, benthic and planktonic organisms, paleoecology, archeology, oceanography, environmental impact, and water use. Both terrestrial and marine studies are represented. However, only studies emphasizing the latest major interval of earth history, the Quaternary Period, are included in these two reports. Areas covered are the coastal zone and continental margin of British Columbia, Washington, and southeast Alaska, and the abyssal seafloor of the northeast Pacific Ocean. Open Files 197 and 276 are available for public inspection at the Ottawa, Dartmouth, Calgary, and Vancouver offices of the Geological Survey of Canada and may be purchased through Riley's Datashare International Ltd. in Vancouver.

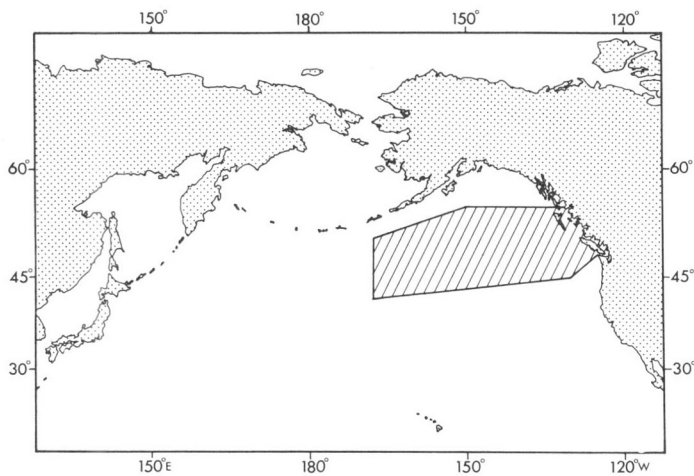


Figure 1. Area of bibliographic inventory. Diagonal line pattern indicates extent of coverage.

In December 1975 one of the junior authors (Gardner) was assigned the task of compiling a selective bibliography of marine geoscience information for western Canada. Literature compilations by Ricker of the Terrain Sciences Division and Donley of the Regional and Economic Geology Division were incorporated into this bibliography. The senior author reorganized and selectively expanded the bibliography, a task completed in January 1977. The resultant bibliography differs from earlier inventories in the following ways:

1. It includes only those documents concerned completely or partly with the marine geology and geophysics of Pacific regions of Canada. Reports dealing exclusively with the continental margin of Washington and Alaska have been omitted. Papers presenting local geoscience information within a larger geographic or subject matter context, however, are included.

The following geographic areas are covered (Figs. 1 and 2): Dixon Entrance; Hecate Strait; Queen Charlotte Sound; Queen Charlotte Strait; Strait of Georgia; Fraser Delta; passages of the Gulf and San Juan Islands; Juan de Fuca Strait; inlets of the British Columbia mainland, Queen Charlotte Islands, and Vancouver Island; and the continental margin, oceanic rises, and abyssal plains of the open ocean. Documents pertaining to that portion of the Fraser River affected by tides are included.

Coverage of the vast area of the eastern North Pacific west of the continental margin is selective; only what are considered to be the most important documents, mostly syntheses of data over the entire North Pacific, are cited.

2. This bibliography comprises both bedrock and sediment studies, whereas Open Files 197 and 276 emphasize the latter. Disciplines represented in this bibliography include sedimentology, stratigraphy, geomorphology, geochemistry, geophysics, geochronology, tectonics, and resource evaluation. Bathymetric maps are cited, as are a few reports summarizing sea level fluctuations on the Pacific Coast during late Quaternary time. Although reports dealing with sedimentologic or stratigraphic aspects of organisms in the marine environment are included, studies concerned exclusively with biology, ecology, oceanography, archeology, and terrestrial surficial geology have been excluded.
3. Citations are indexed in tabular form according to subject matter and geographic area. In contrast, in Open Files 197 and 276, the geographic limits and contents of each study are shown on maps.

4. Citations are limited to published documents and those unpublished reports and theses readily available to the public, generally through libraries. Consultant reports have been omitted because many are not available for general use, because some companies prefer that their reports not be cited in a published bibliography, and because many citations submitted by firms could not be verified.

Likewise, internal reports and memoranda of limited access and value, in general, have been omitted. Many of these consultant and internal reports, however, are cited in Open File 276 to which the interested user is referred. Abstracts have been excluded because they provide little usable information, and because most have been superseded by published papers. Some of these, however, also are listed in Open File 276.

ORGANIZATION

The bibliography consists of two parts. The first is a list of papers, reports, and theses arranged alphabetically according to author(s). At the end of this section is a short list of inventories and bibliographies of marine geology and related disciplines for western Canada. The second part of the bibliography is an index of the catalogued citations arranged according to subject matter and geographic coverage. The numbers in this part of the bibliography refer back to those in the first section.

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J.L. Luternauer, J.D. Milliman, D.L. Tiffin, and C.F.M. Lewis of the Geological Survey of Canada contributed many suggestions for improving the format and content of this bibliography.

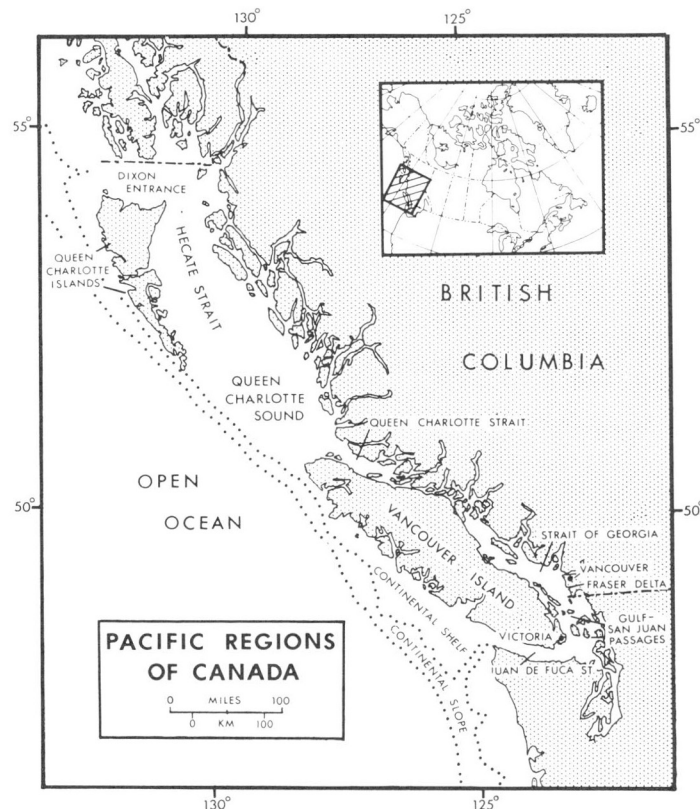


Figure 2. Offshore regions of western Canada showing the major area headings utilized in the index of bibliographic citations.

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SUBJECT-AREA INDEX

Citations are indexed under the following subject headings: (1) **Crust**, (2) **Sediments**, (3) **SEAFLOOR MORPHOLOGY**, and (4) **SEA LEVEL POSITIONS**. Reports in related disciplines such as oceanography and marine biology are indexed solely on the basis of the subordinate crustal sedimentologic, or bathymetric information which they contain and which justify their inclusion in the bibliography.

Crust studies deal with one or more of the following aspects of the consolidated lithosphere beneath the seafloor: age, chemistry, fossils, gravity, heat flow, magnetics, origin and evolution, petrography, seismicity, structure, and thickness.

Maps and reports on unconsolidated sediments include information on sediment age, chemistry, composition, diagenesis, dispersal, distribution, provenance, stratigraphy, texture, and sedimentation.

Bathymetric maps and reports containing information on the morphology of the ocean bottom are indexed under **SEAFLOOR MORPHOLOGY**. Asterisks denote those reports with bathymetry maps which are primarily concerned with bedrock, sediments, and other types of data.

Reports indexed under **SEA LEVEL POSITIONS** summarize sea level fluctuations during the Quaternary Period.

The following major area headings are utilized in the index (Fig. 2): Dixon Entrance, Fraser Delta, General¹, Gulf-San Juan Passages, Hecate Strait, Juan de Fuca Strait, Mainland Inlets (northern)², Mainland Inlets (southern)³, Mainland (northern)⁴, Mainland (southern)⁴, Open Ocean⁵, Queen Charlotte Inlets, Queen Charlotte Islands⁴, Queen Charlotte Strait, Strait of Georgia, Vancouver Island⁴, and Vancouver Island Inlets.

Studies which are site-specific are indexed under an appropriate subheading of the major area heading. For example, papers on Juan de Fuca Ridge are listed under the subheading **Juan de Fuca Ridge** within the area **Open Ocean**.

Geologic studies of the British Columbia continental margin may include some information on the adjacent abyssal seafloor. Likewise, reports covering the abyssal ocean floor may provide limited data on the continental margin.

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¹Includes all inventory areas.

²Mainland inlets north of 51°N.

³Mainland inlets south of 51°N.

⁴Shorelines (includes sea level studies).

⁵Includes oceanic rises, abyssal plains and basins, and that portion of the continental margin west of Queen Charlotte Islands and Vancouver Island.

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