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BIBLIOGRAPHY OF
GEOLOGY AND GEOPHYSICS
OF THE
SOUTHWESTERN PACIFIC

Edited by

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FOREWORD

CCOP/SOPAC has now been in existence for more than 10 years. Its main aims are to promote and co-ordinate marine geological studies in the Southwest Pacific, especially those which provide information and assessment on the economic potential of marine mineral resources.

In its early years one of the first tasks performed by CCOP/SOPAC was to produce a Bibliography of the Geology and Geophysics of the South Pacific, published in 1975. Since then CCOP/SOPAC has done much work in the region and stimulated others to do even more. Therefore, it is now most appropriate that a list of reports describing the result of this work be compiled and a second bibliography be prepared.

The size of this second bibliography is vivid proof of the success of the Committee in promoting work in the region. They have done this by sponsoring regional workshops – the first held in Suva in September 1975, and the second in Vila, 1981. Many of the papers presented there have since been published and are listed here.

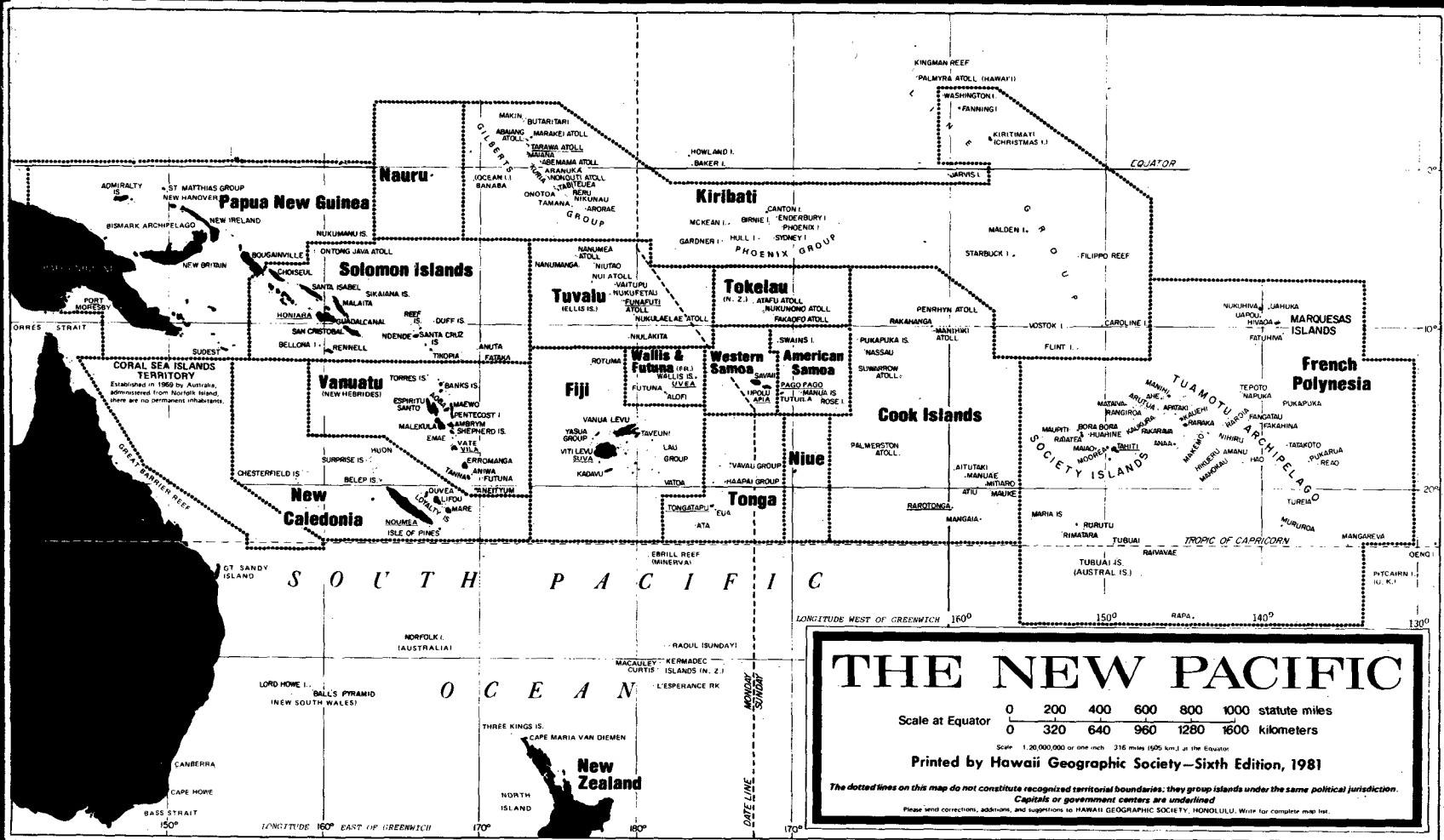
The setting up of a fully-funded UNDP Project Office in Suva, administered by ESCAP, has played a major role in assisting CCOP/SOPAC achieve many of its work objectives, and the Project's many cruise reports, technical reports, and other papers appear in this bibliography.

CCOP/SOPAC has also been instrumental in encouraging national and international agencies to continue and even expand their activities in the region. British, French, German, Japanese, Soviet, American, Australian, and New Zealand agencies have all contributed to the expansion of knowledge in the region. Of particular note is the multimillion dollar Tripartite Australian-New Zealand-USA programme which commenced in 1982.

With this increased activity the Committee has been greatly assisted in its co-ordinating functions by the French Government who since 1979 have provided the full-time services of a marine geologist to work with UNDP Project staff. Dr C. Jouannic has held this position during 1979–1983 and it is fitting that this bibliography has been one of his last tasks before leaving this position. His experience, coupled with that of Mrs Rose-Marie Thompson of the N.Z. Oceanographic Institute, has ensured that this work has been thoroughly prepared and is most comprehensive. The work has also been expanded to include countries other than member countries of CCOP/SOPAC thus increasing its usefulness.

This work will be of major assistance to all those planning and involved in marine geoscience work in the Southwest Pacific, and all those involved in its preparation are to be thoroughly commended.

J.V. Eade



INTRODUCTION

This second edition of the Bibliography of the Geology and Geophysics of the Southwestern Pacific follows on from the first edition by L.W. Kroenke and E. Bardsley, which was published in 1975 in the same series (*U.N. ESCAP, CCOP/SOPAC Tech. Bull. 1*).

Dealing only with geologic and geophysical matters, this bibliographic compilation is essentially geographic and covers the Southwestern Pacific region within approximately 4°N - 40°S, 140°E - 130°W (*see Frontis.*). Each section, as in the first edition, corresponds to a distinct country or territory of the region, CCOP/SOPAC member or not, with the exception, however, of Western Samoa and American Samoa which have been combined. A final section is dedicated to the more regional references, dealing with the Southwestern Pacific as a whole. In the case of the countries covered by the first edition, i.e., French Polynesia, New Caledonia, Samoa, Solomon Islands, Tonga, and Vanuatu (formerly New Hebrides), only references additional to those that have already appeared in the first edition are cited here (Fiji is a special case; *see* Fiji section).

Each section includes, therefore, all references related geographically to a given country (or territory). In addition, it may include references originated out of the country, i.e., in international waters, or in a neighbouring country, if it appears to be of interest to the geological understanding of the country in question. For example, the Santa Cruz Islands, while being part of the Solomon Islands, have been included also in Vanuatu, because of the geological association with the New Hebrides island arc, of which Vanuatu forms, by far, the larger part.

As in the first edition, wherever possible, periodical references have been cited in conformity with the *World List of Scientific Periodicals*, 4th Edn. Books, reports, and theses have been dealt with following the style of Hurley (*Titles of Selected Scientific Periodicals and Expedition Reports dealing with the Marine Sciences, New Zealand and the Antarctic. Misc. Publs N.Z. oceanogr. Inst. 58 : 45 p (1974)*).

We acknowledge the very considerable efforts made by the individual contributors to this compilation and also the most helpful computer searches carried out by the librarians at N.Z. Oceanographic Institute, Wellington, and U.S. Geological Survey at Menlo Park.

*Christian Jouannic
Rose-Marie Thompson*

Frontispiece: Map of areas included in this bibliography, kindly reproduced with permission of the Hawaii Geographic Society, Honolulu. Areas north of the Equator and Indonesia have not been included.

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The geological/geophysical bibliographic compilation of Eastern offshore Australia extends to the Coral Sea, the Lord Howe Rise (occasionally to the New Caledonia Basin), and to the Tasman Sea, to approximately 40°S. It includes also the articles directly related to Norfolk and Philip Islands, as these islands are Australian territories.

The compilation results from the merge of a computer search provided by the Bureau of Mineral Resources (BMR) from its own GEODEX system and of a manual search carried out at the CCOP/SOPAC office. The merge was then circulated between various researchers at BMR in Canberra, from whom further contributions were added, in particular, N.F. Exon, P. Symonds, and P.J. Davies. Where possible, references up to February 1983 including those papers presented at the 15th Pacific Science Congress held in Dunedin, New Zealand, have been included.

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**BIBLIOGRAPHY OF
GEOLOGY AND GEOPHYSICS
OF THE COOK ISLANDS**

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A bibliography by E. Bardsley published in 1975 (*Misc. Publs N.Z. oceanogr. Inst.* 68 : 13 p) has been used as the basis of this present work and has been extended to include references up to February 1983. It includes those papers presented at the 15th Pacific Science Congress held in Dunedin, New Zealand, in that month.

This bibliography was compiled from a search of the relevant journals in the library of the N.Z. Oceanographic Institute, together with computer searches through GEOREF and GEOARCHIVE data bases made by the Librarian at N.Z.O.I. Because many of the references came from reference lists, abstracting journals, and computer searches rather than the journal itself, they have not been seen and so have not been verified.

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AN ANNOTATED BIBLIOGRAPHY
OF BIBLIOGRAPHIES
OF THE GEOLOGY AND
GEOPHYSICS
OF FIJI

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The Mineral Resource Department publishes its own volumes of bibliography of geology and geophysics (of Fiji) and it is therefore considered that a listing here would be unnecessary duplication of effort. However, a listing of bibliographies is given, the first four of which between them, contain all relevant entries in the others (and many more).

FIJI

A complete list of all known works, up to the end of 1982, is contained in the following four volumes.

DUBERAL, R.F.; RODDA, P. 1969: "Bibliography of the Geology of Fiji". Geological Survey, Suva. 81 p, map.

Published works are annotated. Contains a simple Subject Index, and a Geographic Index listing place names in titles of works.

RODDA, P. (in press): "Bibliography of the Geology of Fiji. Volume 2". Mineral Resources Department, Suva.

Abstracts are given for almost all published works and major unpublished works such as these. Includes Subject Index. Stratigraphic Index listing works giving important information on stratigraphic units, and full Geographic Index. Cut-off date is the end of 1975. Includes works on geophysics, as did the first volume, but additionally includes works on offshore areas to approximately the limits of Fiji's Exclusive Economic Zone.

GREENBAUM, D. (in press): "Bibliography of the Geology of Fiji, Volume 3". Mineral Resources Department, Suva.

Basically a listing of the Mineral Resources Department Exploration Report series, which consists mainly of open-file mining company reports on mineral exploration but includes files made up of early reports by the Inspector of Mines and others, many of which are listed separately in Volumes 1 and 2 of the bibliography. Contains Subject Index and Geographic Index, and location maps showing the positions of prospecting licences.

RODDA, P. (in press): "Bibliography of the Geology of Fiji, Volume 4". Mineral Resources Department, Suva.

Abstracts are given for almost all published works and major unpublished works such as these. Includes Subject index, Stratigraphic Index listing works giving important information on stratigraphic units, and full Geographic Index. Cut-off date is the end of 1982. Includes works on geophysics, as did the first volume, but additionally includes works on offshore areas to approximately the limits of Fiji's Exclusive Economic Zone.

Other bibliographic listings specifically of geology (and related topics) of Fiji.

MANSFIELD, W.C. 1926: Fossils from quarries near Suva, Viti Levu, Fiji Islands, and from Vavao, Tonga Islands, with annotated bibliography of the geology of the Fiji Islands. *Publs Carnegie Instn* 344 : 85-104.

Lists 50 works, some of them mentioning Fiji only in passing or in a negative way.

ANON. 1958: Bibliography. Pp 14-16 in Guest, N.J. "Geological Survey Department : Annual report for the year 1957". *Coun. Pap. Fiji* 1958(21).

Three sections : Geology of Fiji (98 entries); Geology of Tonga (6 entries); and Soils and Related Topics (14 entries).

ANON. 1959: Bibliography. P. 17 in Guest, N.J. "Geological Survey Department : Annual report for the year 1958". *Coun. Pap. Fiji* 1959(17).

Contains additions to the above, under two sections : Fijian geology (13 entries), and Geology of Tonga (5 entries).

ANON. 1960: Bibliography. P. 19 in Guest, N.J. "Geological Survey Department : Annual report for the year 1959". *Coun. Pap. Fiji* 1960(6).

Contains further additions to the above two, under two sections : Geology of Fiji (21 entries), and Geology of Tonga (6 entries).

GREENBAUM, D. 1979: A catalogue of non-confidential mineral exploration reports (M.R.D. Exploration Report series). *Rep. Miner. Resour. Div. Fiji* 12 : 22 p.

The fore-runner of Volume 3 of the Bibliography of the Geology of Fiji, listed above. Includes a supplement issued later in 1979.

RODDA, P. 1967: Bibliography – Geology of Fiji. *In* Outline of the geology of Viti Levu. *N.Z. Jl Geol. Geophys.* 10(5) : 1268–73.

Contains 121 additions to the above three listings.

RODDA, P. 1975: Additions to bibliography of the geology of Fiji. *In* Kroenke, L.W.; Bardsley, E. (eds) “Bibliography of the Geology and Geophysics of the South Pacific”. *U.N. ESCAP, CCOP/SOPAC Tech. Bull.* 1 : 11–18.

Additions to Duberal and Rodda (1969). Contains various erroneous alterations – papers presented at the Geological Survey Colloquia of 1969 and 1971 are listed merely as “Unpublished Report”, and some abbreviations have been wrongly expanded.

RODDA, P. 1978: Fiji: 1977 additions. [Bibliography of geology and geophysics.] *Proc. 6th Sess. CCOP/SOPAC* : 63.

RODDA, P. 1982: Bibliography of the geology of Fiji : Supplement to Volume 2. *Rep. Miner. Resour. Dep. Fiji* 36 : 26 p.

The Volume 2 referred to was what was originally planned – one volume with a cut-off date of the end of 1979. The planned volume has been divided, giving the Volume 2 listed above, and with additional entries, the Volume 4 listed above. This report contains works from the beginning of 1980 to, at the latest, April 1982.

RIDGE, J.D. 1976: “Annotated Bibliographies of Mineral Deposits in Africa, Asia (exclusive of the USSR) and Australasia”. Pergamon Press. Pp 503–8.

Deals only with the Tavua Goldfield.

Various other bibliographies include entries on geology, but those bibliographies are either more general in nature of topics listed, or deal with other countries as well as Fiji.

**BIBLIOGRAPHY OF
GEOLOGY AND GEOPHYSICS
OF FRENCH POLYNESIA**

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This compilation has been extended and updated from a previously unpublished bibliography of the French Polynesia area compiled in 1981 while the author was stationed in Tahiti. It deals mainly with geomagnetism, seismology, gravimetry, tectonophysics, geochronology, geology, petrology, geochemistry, mineralogy, volcanology and geomorphology. Deliberately omitted are references to polymetallic nodules as there are excellent up-to-date bibliographies available on this subject alone.

This bibliography, hopefully, represents significant progress compared to two other bibliographies which contain a limited amount of data in respect of the current research interests.

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There are inevitably omissions arising from delays in the receipt of journals, lack of access to other journals, most of which is explained by the isolation of the research area. I would be grateful for notification of any further references.

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GEOLOGY AND GEOPHYSICS
OF KIRIBATI**

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The bibliography of Kiribati includes published articles and reports up to February 1983 relevant to the geology and geophysics of Kiribati (Gilbert Islands, Phoenix Islands, and Line Islands) and its Exclusive Economic Zone. It also includes some articles from outside the EEZ where they are considered of interest to the geological understanding of the Kiribati area.

The compilation consisted in merging a computer search provided by N.Z. Oceanographic Institute with manual searches carried out at N.Z.O.I., CCOP/SOPAC in Suva, and at the Hawaii Institute of Geophysics in Honolulu.

Some references were taken from the reference lists of previously published papers rather than from the journal itself; they have not been seen by us and consequently their authenticity have not been verified.

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This bibliography includes all onshore and offshore geological/geophysical articles, open-file reports, and maps up to February 1983 relevant to New Caledonia, its dependencies (Chesterfield Islands, Loyalty Islands, Hunter and Matthew Islands), and the related Exclusive Economic Zone. For geological relationship considerations, it covers additionally the northern parts of the Lord Howe Rise, the New Caledonia Basin, and the Norfolk Ridge to the south, the North Loyalty Basin (also called New Hebrides Basin in the literature) to the east, the d'Entrecasteaux region up to the South Rennell Trough to the north, and the Mellish Plateau area to the northwest.

This compilation results essentially from the merge of a manual search carried out in Noumea and a computer search operated by N.Z. Oceanographic Institute. All open-file references found to date have been taken into consideration, at the exclusion of those published by F. Dugas and J. Launay in 1975, in the first edition (*CCOP/SOPAC Tech. Bull. 1*).

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**BIBLIOGRAPHY OF GEOLOGY
AND GEOPHYSICS OF
OFFSHORE NEW ZEALAND
(north of 40°S)**

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This geological and geophysical bibliographic compilation of northern offshore New Zealand extends to 40°S. It also includes articles related to New Zealand's offshore islands within this area. Included also is the Norfolk Ridge, the southern part of the Lord Howe Rise, the Tonga-Kermadec subduction arc, and the main articles on the South Fiji Basin. There may, however, be some articles herein which deal with the Taupo Volcanic Zone where they mention, or are linked to, plate tectonics within the area. Harbours are not included.

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Items which appear in Lewis (above) are not repeated here. References up to February 1983 are included as well as those abstracts published at the 15th Pacific Science Congress held in Dunedin the same month.

Some of the references listed came from abstracting journals and have not been seen. Others were located by a systematic manual search of relevant journals in the library at the N.Z. Oceanographic Institute while others were brought to notice through computer data-base searches.

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OF NIUE

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A bibliography by E. Bardsley published in 1975 (*Misc. Publs N.Z. oceanogr. Inst.* 68 : 13 p) has been used as the basis of this present work and has been extended to include references up to February 1983. It includes also those papers presented at the 15th Pacific Science Congress held in the Dunedin, New Zealand, the same month.

Further entries were located from a manual search of journals held in the Library at N.Z.O.I. and from computer searches carried out through various data bases in conjunction with larger island territories. Some of the references have not been seen, and have not been verified.

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**BIBLIOGRAPHY OF THE
GEOLOGY AND GEOPHYSICS OF
PAPUA NEW GUINEA**

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When the *Bibliography of Geology and Geophysics of the South Pacific* was issued in 1975, it was noted in the Introduction that an annotated bibliography covering Papua New Guinea was in the course of publication by the Australian Bureau of Mineral Resources. This was issued as :

MANSEY, W. 1974: Earth Science Abstracts, Papua New Guinea, to 1971. *Bull. Bur. Miner. Resour. Geol. Geophys. Aust.* 143 (PNG 8) : 444 p.

and has become the definitive reference source for Papua New Guinea earth sciences, including geomorphology and, to a lesser extent, pedology. Two subsequent updates have been issued:

MANSEY, W.; REYNOLDS, N.M. 1975: Earth Science Abstracts 1972-73. *Mem. geol. Surv. Papua New Guinea* 4 : 172 p.

MANSEY, W. 1978: Earth Science Abstracts 1974-76. *Mem. geol. Surv. Papua New Guinea* 5 : 295 p.

A further update covering the period 1977-79 is currently in press as *Memoir, Geological Survey, Papua New Guinea* 8 but it is not expected to appear for some time.

Author-alphabetic check lists of the entries in *Memoirs* 4, 5, and 8 have been issued *University of Papua New Guinea, Geology Department, Occasional Papers* 2 (1974), 3 (1977), 4 (1980).

The entries in this present compilation combine relevant articles cited in the forthcoming *Memoir* 8 and articles currently being accumulated for the next update issue. This list is, as far as possible, complete to the end of 1981, though as a matter of deliberate intent some items have been excluded, i.e., reports and commentaries on mineral and petroleum exploration and mining activities when these reports do not contain new geological data, production data, or revised reserve figures; I.S.C. monthly *Bulletins*, "Lists of Events and Associated Observations".

There are inevitable omissions arising from such contributing factors as delays in receipt of journals or inter-library-loan requested items, lack of access to some journals (especially the Russian literature), uncompleted search of some sources (e.g., *SEAN Bulletin*), and the compiler's ignorance of the existence of some items. Notification of omissions would be welcomed.

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OF SAMOA

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This bibliography complements that published in *CCOP/SOPAC Tech. Bull. 1* (compiled up to November 1974) and should be used in association with it. References up to February 1983 are added here including those papers presented at the 15th Pacific Science Congress held in Dunedin, New Zealand, the same month.

This compilation results from a merge of computer searches made by the Librarian at N.Z.O.I. through various data bases (GEOARCHIVE, GEOREF, NTIS, Oceanic Abstracts) and a manual search of relevant journals in the N.Z.O.I. Library. Because some references were taken from lists of abstracting journals and computer searches rather than from the journal itself, they have not been seen and are not verified.

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**BIBLIOGRAPHY OF THE
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OF THE SOLOMON ISLANDS**

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The present bibliographic list of Solomon Islands builds on the listing "Bibliography of Geology and Geophysics of the South Pacific" (*Tech. Bull. 1* : 1-10), and includes only a few major items omitted from that listing. The list is, as far as possible, complete to the end of 1981, though as a matter of deliberate intent some items have been excluded, i.e., reports and commentaries on mineral and petroleum exploration and mining activities when these reports do not contain new geological data, production data, or revised reserve figures; I.S.C. monthly *Bulletins*, "Lists of Events and Associated Observations".

There are inevitable omissions arising from such contributing factors as delays in receipt of journals or inter-library-loans requested items, lack of access to some journals, especially the Russian oceanographic and tectonic literature, uncompleted search of some sources, and the compiler's ignorance of the existence of some items. Notification of omissions would be welcomed.

This listing is a side-product of a major exercise, the production of an exhaustive annotated bibliography of the geology and geophysics of the Solomon Islands, to be issued by the Solomon Islands Geological Survey.

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This bibliography complements that published in *CCOP/SOPAC Tech. Bull. 1* (compiled up to November 1974) and should be used in conjunction with it. Where possible, references up to February 1983 and including those papers presented at the 15th Pacific Science Congress held in Dunedin, New Zealand, have been included.

This compilation was prepared using the information supplied by K. Anscombe in February 1982. It was further extended by a search of relevant journals in the library at N.Z. Oceanographic Institute. Computer searches made by librarians at U.S. Geological Survey, Menlo Park, and at N.Z.O.I. were of immense assistance. Because some references were taken from the computer searches and lists of abstracting journals rather than from the journal itself, they have not been seen or verified.

Some entries in this section will also appear under "New Zealand" as this compilation includes the main articles related to the Tonga-Kermadec subduction zone as a whole, and to the South Fiji Basin.

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This bibliography includes all onshore and offshore geological/geophysical articles, open-file reports, and maps/charts up to February 1983 relevant to Vanuatu, its Exclusive Economic Zone, at the exclusion of those articles published by F. Dugas in 1975 in the first edition, under the rubric *New Hebrides*. It also includes the main articles related to the Santa Cruz Islands to the north, the Hunter and Matthew Islands area to the south, and the North Fiji Basin (also mentioned as North Fiji Plateau in the literature) to the east, because of evident geological relationship with the New Hebrides island arc, of which Vanuatu constitutes, by far, the largest part.

This bibliographic compilation was obtained by merging a manual search of relevant journals, special issues, and files available in the libraries of ORSTOM, Noumea, and CCOP/SOPAC in Suva, with computer searches provided by N.Z. Oceanographic Institute, and U.S. Geological Survey at Menlo Park. A contribution from Mr A. Macfarlane, Director, Department of Geology, Mines and Rural Water Supplies, Port Vila, has also been incorporated.

Because many references were taken from reference lists of previously published papers rather than the journals themselves, they have not all been seen by the authors, and consequently have not been verified.

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This final section is dedicated to the more regional references, i.e., to the overall area as a whole generally. If the title of a paper specifically mentions a country area then that reference should also be found under the country chapter. Some references, from their titles, may seem not appropriate to the study area, but, where possible, these references have been checked for their pertinence, and so are here included.

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