

# A BIBLIOGRAPHY OF THE FLORA AND VEGETATION OF PAPUA NEW GUINEA

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## ABSTRACT

*This bibliography includes all items, many virtually inaccessible to most workers but considered relevant to the flora and vegetation of Papua New Guinea. It is divided into eight sections: flora and botany, explorations and expeditions, phytogeography, ecology and vegetation, ethnobotany, conservation and subject bibliographies. This work is intended to stimulate interest in the flora and vegetation of Papua New Guinea.*

**Key words:** *flora, systematics, ecology and vegetation, forest and forestry, non-timber products, conservation.*

## INTRODUCTION

Despite increasing concern about sustainable development and management, as well as conservation of the country's forest resources, far too little is understood about the ecological basis for the planning of their exploitation and management. The creation of the Forest Research Institute in Lae, together with other related institutions throughout the country is an attempt to address this problem. However, due to manpower and financial limitations and, more importantly, the lack of information and data, very little information is disseminated to decision makers, forest managers, developers and resource owners. Much of such information and data are unavailable and are mostly found in centralized libraries within the country and abroad or in Government files and archives.

As part of an overall effort to manage and conserve the forest resources in the country on a sustainable basis, one of the most urgent tasks is to improve our understanding of the dynamics, ecology and the biology of the forests.

One approach is to look at what kind of data and information are available. This bibliography was compiled to encourage better communication among forest managers, owners, developers, researchers and decision makers and to stimulate further research into areas which are not well understood.

The focus of this bibliography on Papua New Guinea's forests or vegetation is justified, given the extent

of its forest resources and the rapid rate of deforestation and their important role in national economy and the global environment. Further, due in part to lack of access to information, many investors believe that natural forest management does not generate sufficient financial returns to be justified for wood production as compared to plantation forestry. Similarly, it is also believed that logging is incompatible with the extraction of non-timber forest products. Nevertheless, it is hoped that this bibliography will assist in providing useful references for information. This would serve as a foundation upon which appropriate management, utilization and conservation practices could be developed that will be sustainable and contribute to the well-being of the forests, owners, the nation and the world as a whole.

The bibliography is divided into eight Sections: **Flora and Botany** which includes plant systematics; **Exploration and Expeditions**; **Phytogeography** which is largely regional, but also includes references on factors influencing plant distributions such as continental drift, changes in sea level and climate, etc.; **Ecology and Vegetation**, including the descriptions of forests and other vegetation types, the general plant ecology, habitat and zone descriptions; **Forestry**, mostly covering forest industries, exploitation, management, ownership and its role in the country's socio-economic developments; **Ethnobotany** which deals with uses, including chemical analyses; **Conservation**; and **Subject Bibliographies**.

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## SOURCES OF MATERIAL

This bibliography does not pretend to be complete and is not exclusively about Papua New Guinea, but includes all items considered relevant. It includes many entries from Australia, Irian Jaya, Solomons, South east Asia and much of the Asia-Pacific region. Almost all Government Agencies, Institutions and Libraries in the country were solicited to provide information, but very few responded. However, information is still coming in, new projects are being started all the time, and books and journal articles on the flora of Papua New Guinea are appearing weekly. A number of references had no publication dates, they are referred as u.d (undated) in this paper. I sincerely hope that reviewers of this bibliography will send me additional references and advice on how to make future editions of the bibliography more useful. Please send additions/corrections to the author.

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## SECTION IV

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## SECTION VII.

## CONSERVATION

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