

WEST IRIAN

A Bibliography



J. VAN BAAL
K.W. GALIS
R.M. KOENTJARANINGRAT

WEST IRIAN: A BIBLIOGRAPHY

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J. VAN BAAL, K.W. GALIS and R.M. KOENTJARANINGRAT

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PREFACE

The bibliography of Irian presented here owes its origin to an initiative taken in December 1981 at the combined meeting of the Indonesian and the Dutch Steering Committees for the implementation of the Programme of Indonesian Studies, the organizational framework for Indonesian-Dutch cooperation in the social sciences and humanities. The responsibility for compiling the bibliography was assigned to the members Koentjaraningrat on the Indonesian and Van Baal on the Dutch side. They started off by soliciting the cooperation of Galis, the author of the "Bibliographie van Nederlands-Nieuw-Guinea" of 1962. He kindly agreed to participate in the project and to share their responsibility as a co-author, putting his 1962 bibliography at their common disposal.

At their first meeting the authors agreed on a work scheme and on a division of tasks among themselves, the details of which are of little interest, as the ultimate result of their joint activities, the present volume, is the outcome of frequent mutual consultations and is, besides, their shared responsibility. Of more interest are the principles which they decided on as the basis for their activities, in particular their agreement that this bibliography should be a practical guide for students of the social sciences and humanities as well as for development workers in the area, designed to help them to find their way through the confusing mass of published and unpublished materials concerning Irian. This implied the necessity of differentiating between the more and the less important materials, and of restricting a mention of the less important literature (there is a vast quantity of so-called popular literature) to those papers and articles which may be expected to contain some real information. This kind of selection has the disadvantage of a certain measure of arbitrariness being exercised, while one also runs the risk of omitting material that may be of real value. Nevertheless, the risk had to be accepted, the more so because there is a rapidly growing interest in Irian and quite a number of new students interested in its people are badly in need of better information on the available sources of more precise knowledge. This meant that the work had to be completed in the shortest possible time, a condition which is not always wholly compatible with scientific reliability.

The authors were well aware of this. Nevertheless, their aim was not academic perfection but practical usefulness for the student and the development worker who are relatively new to the area. The latter are better served with a concise guide than with a voluminous work referring to a confusing mass of literature of often uncertain value. Admitting the possibility of occasional gaps and shortcomings, the authors anyway have some confidence that the principal aim has been fulfilled. Besides, the serious student specializing on a certain area will have no difficulty in tracing additional sources of information in the works listed

in this bibliography. In some cases it has even been presupposed that he will consult the sometimes extensive bibliographies going with these works. A good case in point is that of the bibliography included in Van Amelsfoort's work on the Asmat and that of Van Baal on the Marind. The student interested in these peoples will consult these works anyway, and the authors of the present volume, wishing to restrict its already voluminous size, preferred limiting themselves to giving references to these specialized bibliographies to the cumbersome work of copying them.

As the present work has been conceived as a guide, it was considered desirable not to restrict it to information coming within the framework of the social sciences and the humanities alone. It is the experience of every field worker and development worker that he will run up against problems of meteorology, geology and biology as well. He must know where to find information of at least a general and orientational nature. Towards this end the authors have solicited the help of a number of specialists in these fields. They were asked to point the way to the main sources of information in their respective specializations. It is with sincere gratitude that the authors of the present volume mention the kind cooperation they received from the following experts, in the order of the chapters of this work: Mr. T.B. Ridder, who wrote the section on meteorology; Dr. J.J. Reynders, who contributed the sections on geology and soils; and Dr. C. Kalkman, who submitted the section on botany.

Expert assistance was also given by others. The authors wish to thank Dr. J.C. Anceaux for his kindness in writing the chapter on linguistics; Mr. J. Le Grand for his contributions to the section on physical anthropology; Dr. H.A. Poeze for his additions to the chapter on history; and Dr. A. Ploeg and Father B.O. van Nunen, M.A., for their contributions to the bibliography relating to the peoples of the Central Highlands of Irian.

Much information on Irian has been recorded in unpublished reports. It is not always easy to find out where these have been stored. Of the more recent ones many can be found at the University of Cenderawasih (UNCEN), at the Akademi Pemerintahan Dalam Negeri (APDN), at the Sekolah Tinggi Teologi Katolik (SKTT), all at Jayapura, and occasionally, at the Institut Pertanian (PTB) at Manokwari. It is more difficult to trace the older reports. Most of these must be located in The Netherlands, primarily at the Algemeen Rijksarchief in The Hague, and some of them also at the Royal Tropical Institute (KIT) in Amsterdam or the Royal Institute of Linguistics and Anthropology (KITLV) at Leiden. Unfortunately, the authors have not been able to find out where each of the older reports (i.e. reports dated 1962 or earlier) is kept. A number of these may be untraceable. Fortunately, there is one exception, and an important one at that. This is the collection described by P. Nienhuis in his "Inventaris van het Rapportenarchief van het Kantoor voor Bevolkingszaken" (1's-Gravenhage, Ministerie van Binnenlandse Zaken, 1968). The collection numbers 921 documents covering well over 25,000 pages. It is now kept at the Algemeen Rijksarchief in The Hague, and has recently been microfilmed. The negative of this film has been deposited at the Arsip Nasional at Jakarta, where copies on film or prints on paper may be obtained on request. The Director of the Algemeen Rijksarchief has greatly facilitated the authors' work by kindly granting permission to annex a copy of Nienhuis' excellent inventory to

the present volume. They owe him their sincere thanks for saving them a great amount of work. Instead of having to copy all the various titles in full, the authors were able to confine themselves to giving references to these documents by the simple statement "Nienhuis no. ...".

We also wish to express our sincere gratitude to Dr. D.C. Ayamiseba, Head of the Institute of Anthropology of Cenderawasih University, who provided Koentjaraningrat with a desk at the library of the Irian Jaya Museum in Abepura at which the latter could isolate himself for about two weeks in order to concentrate on this bibliography. A word of thanks is also due to the librarians at the library of the Summer Institute for Linguistics, at the library of the Academy for Administration in Jayapura, as well as to the Fathers of the Catholic School of Theology in Abepura, who allowed Koentjaraningrat to take a look at a pile of undergraduate essays and even to check through Father Van Nunen's private library.

There is no need to enlarge further on the compilation of this work. The divergent lengths of the successive chapters speak for themselves. What motivated the authors was the concern to promote the study and knowledge of the people of Irian. It is impossible to conclude this preface without a word about the role played by the Royal Institute of Linguistics and Anthropology, or KITLV, at Leiden. It generously gave the authors the benefits of its resources and know-how, and gracefully accepted the task of editing their work. For all this, the latter are deeply grateful to both the Institute and its staff. They wish to thank in particular the Editorial Department for all the work done to give the work its final shape.

ABBREVIATIONS

AA	American Anthropologist
Adatrecht- bundels	a series compiled by the Commissie voor het Adatrecht (Customary Law Commission), 1910-1955, 45 vols.
Annual Report	Annual Report on Netherlands New Guinea presented by the Netherlands Government to the Secretary-General of the United Nations
ANU	Australian National University
APDN	Akademi Pemerintahan Dalam Negeri
BB	Binnenlands Bestuur
Berichten UZV	Berichten van de Utrechtsche Zendingsvereeniging
BKI	Bijdragen tot de Taal-, Land- en Volkenkunde
BNG	Bewindsregeling Nieuw-Guinea
BPP	Badan Perencanaan Pembangunan
BPS	Biro Pusat Statistik
CAMA	Christian and Missionary Alliance
CSIRO	Commonwealth Scientific Research Organisation
DMGT	Documenta de Medicina Geographica et Tropica
DPRD	Dewan Perwakilan Rakyat Daerah
FUNDWI	Fund of the United Nations for the Development of West Irian
GKI	Gereja Kristen Injil
IAE	Internationales Archiv für Ethnographie
IBIID	Irian, Bulletin for Irian Jaya Development
IG	Indische Gids
INQUA	International Union for Quaternary Research
JRAI	Journal Royal Anthropological Institute of Great Britain and (Northern) Ireland
KBZ	Kantoor voor Bevolkingszaken
KIT	Koninklijk Instituut voor de Tropen
KITLV	Koninklijk Instituut voor Taal-, Land- en Volkenkunde
KNAG	Koninklijk Nederlands Aardrijkskundig Genootschap
KPS	wilayah Kepala Pemerintah Setempat (a subdivision)
KS	Koloniale Studiën
KT	Koloniaal Tijdschrift
MDVG	Mededelingen van de Dienst Gezondheidszorg in Nederlands Nieuw-Guinea
MEZ	Mededelingen van Economische Zaken, Landbouwkundige Serie
MIKA	Media Ikatan Kekerabatan Antropologi (a student perio- dical published by the Association of Anthropology Students of the University of Indonesia)
MISI	Majalah Ilmu Ilmu Sastra Indonesia
MNZG	Mededeelingen, Tijdschrift voor Zendingswetenschappen

MUC, MUNCEN	Majalah Universitas Cenderawasih
NGS	Nieuw-Guinea Studiën
NION	Nederlandsch Indië Oud en Nieuw
NJAS	Netherlands Journal of Agricultural Sciences
NNG	Nederlands Nieuw-Guinea; tweemaandelijks orgaan van de Stichting 'Het Nationaal Nieuw-Guinea Comité'
NINGPM	Nederlandsche Nieuw Guinee Petroleum Maatschappij
NTNI	Natuurkundig Tijdschrift voor Nederlandsch-Indië
PdK	Departmen Pendidikan dan Kebudayaan
PNG	Papua / New Guinea
PTB	Institut Pertanian Bogor (Manokwari)
SIL	Summer Institute for Linguistics
SPC	South Pacific Commission (Noumea)
STTK	Sekolah Tinggi Teologi Katolik
TAG	Tijdschrift van het Koninklijk Nederlandsch Aardrijkskundig Genootschap
TBB	Tijdschrift voor het Binnenlandsch Bestuur
TBG	Tijdschrift voor Indische Taal-, Land- en Volkenkunde, uitgegeven door het Koninklijk Bataviaasch Genootschap van Kunsten en Wetenschappen
TGM	Tropical and Geographical Medicine
TNG	Tijdschrift Nieuw-Guinea
UNCEN	Universitas Cenderawasih, Jayapura
UNCEN, FHES	Fakultas Hukum, Ekonomi dan Sosial UNCEN
UNCEN, FK	Fakultas Keguruan UNCEN
UNCEN, FPPK	Fakultas Pertanian, Perikanan dan Kehutanan UNCEN
UNDIP, FK	Fakultas Kesehatan UNDIP
UNDP	United Nations Development Programme
UNTEA	United Nations Temporary Authority
ZfE	Zeitschrift für Ethnologie

I

GENERAL

1.1. General Works

General works devoted exclusively to Irian or to Irian as part of the island New Guinea are few in number. Although 30 years old, the best, even today, is Klein (1953-54). This work is a collection of 33 essays, counting some 1560 pages. They deal with all the various aspects of the island's natural and cultural history and the problems and prospects of its resources, and offer a valuable survey of the scientific knowledge and literature available at that time. The work replaced an earlier, equally valuable attempt by the same author at giving a comprehensive survey, which was sponsored by the Molukken-Instituut and appeared under a slightly different title (Klein 1935-38). The two works will be quoted as Klein's Nieuw-Guinea and Klein's Nieuw Guinee respectively, followed by the date of appearance of the relevant volume.

A simpler and more popular work is *Vademecum* (1956). Another important source of general information is the annual reports to the United Nations (Annual Reports 1949-61). These reports have been published in both Dutch and English. They contain a mass of precise administrative and statistical information on quite a variety of subjects. In addition, mention should be made of two popular works for general orientation, the first a picture book (Dutch and English text) compiled by Van Kampen (1961), the second by Kasberg (1956).

During the West Irian dispute the staff of the Indonesian armed forces, or Staf Penguasa Perang Tertinggi Republik Indonesia, published a source book of general information on soils, flora, fauna, agriculture, animal husbandry and forestry in West Irian (Apandi et al. 1962). A little later the University of Indonesia published a book with data on the geography, demography, prehistory, history, the ethnography of various ethnic groups, culture change and Messianic cults of the peoples of West Irian based on secondary sources (Koentjaraningrat and Harsja W. Bachtiar 1963).

Finally - and mostly for curiosity's sake - mention should be made of the fairly numerous Special Reports of the Allied Forces, S.W. Pacific area, Allied Geogr. Section. These documents were compiled from various earlier sources for the information and orientation of the advancing allied military forces on their campaign against the Japanese. After the war piles of these confidential reports were found in various parts of the one-time New Guinea war theatre. Most of them have disappeared in local archives and private collections. A number of these documents have been listed in Galis 1962:16ff. The most valuable parts of these documents are the maps contained in them. As the papers themselves are résumés of mainly second-hand information we will rarely refer to them.

1.2. *Bibliographies, Serials and Periodicals*

1.2.1. *Bibliographies*

A comprehensive bibliography of Irian, the arrangement of which, unfortunately, is purely alphabetical and not systematic, was compiled by Galis (1962). An English translation of an earlier, less extensive edition of the same work was published by Yale University, New Haven, in 1956 under the title *Bibliography of West New Guinea* (135 pp.).

Bibliographical data on Irian are also found in *An ethnographic bibliography* (1968). Other bibliographical works, but covering a limited field, are Galis (1968), a highly informative list of periodicals on West New Guinea published in and outside the area between 1950 and 1960, Van der Kroef (1954), Kooijman (1983) and Nienhuis (1968). Nienhuis' inventory has been annexed to the present volume.

1.2.2. *Serials and Periodicals*

Among the serials and periodicals devoted to Irian the only one of a purely scientific nature is *Nova Guinea*. It was started for the purpose of publishing the results of the first expedition to New Guinea dispatched by the *Maatschappij ter Bevordering van het Natuurkundig Onderzoek in de Nederlandsche Koloniën*, also called the *Treub Maatschappij*. The official name of the *Treub Maatschappij* (in English: *Society for the Advancement of Physical Research in the Netherlands' Colonies*) has since been changed into *Maatschappij voor Wetenschappelijk Onderzoek in de Tropen*. The name of this private institution should not be confused with that of the government foundation, *WOTRO*, or *Stichting voor Wetenschappelijk Onderzoek in de Tropen*, which pursues the same objective and has more ample means at its disposal than the *Treub Maatschappij* since decolonization has become a fact. Later, the *Treub Maatschappij* agreed to make the serial available for the publication of the results of expeditions sponsored by other bodies, such as, primarily, the *Koninklijk Aardrijkskundig Genootschap*. *Nova Guinea* was published by Brill (Leiden), which firm in 1936 became the owner of the series, of which 15 bulky volumes had appeared between 1907 and 1936. Of these, numbers I to IV, VII and XVI are devoted to *History and Anthropology*; VI to *Geology*; V, IX, XIII, XV and XVII to *Zoology*, and VIII, XII and XIV to *Botany*. Most of the contributions to these volumes appeared first as separate issues, which were later gathered together in the above mentioned volumes. Volumes X and XI have never appeared.

After 1936 Brill started a new series, again published in instalments, which, this time, were not collected into volumes, though the issues published announce on the page facing the title page that they form part of the relevant volume of the new series. The same happened when in 1959, on the occasion of the *Star Mountains Expedition*, this firm decided to put out the new issues in a more modest format than the previous ones. They are all announced as continuations of volume X, new series, whatever the category to which they belong: *Anthropology* (2 issues comprising 3 articles), *Geology* (4 issues, 6 articles), *Botany* (7 issues, containing 24 articles), or *Zoology* (9 issues, containing 38 articles).

The first journal devoted exclusively to Irian was *Tijdschrift Nieuw Guinea* (abbreviated as *TNG*), 's-Gravenhage: *Nieuw-Guinea Comité* and *Nieuw-Guinea Studiekring* (from vol. 6 onward *Nieuw-Guinea Studie-*

kring by itself), 1936-56. Sixteen volumes of it have appeared, the first in 1936-37, the last in 1955-56. During the war (1942-46) the journal did not appear. In 1957 it was replaced by Nieuw-Guinea Studiën (abbreviated as NGS), 's-Gravenhage: Stichting Studiekring voor Nieuw-Guinea, 1957-62). This was published in a more attractive form than TNG. It also replaced a mimeographed three-monthly journal published in Irian, namely Het B.B.-blad, Hollandia: Dienst van Binnenlandse Zaken, Interne Voorlichting, 1953-55.

A periodical containing an extensive body of general information is Schakels/Schakels NNG, 's-Gravenhage: Rijksvoorlichtingsdienst, 1950-62. This is a series of government publications designed to give information on the Netherlands' overseas territories, i.e. Suriname, the Netherlands Antilles and Netherlands New Guinea. Initially Schakels appeared in the form of mimeographed pamphlets published by the Rijksvoorlichtingsdienst (Government Information Service) in cooperation with the Ministry of Overseas Territories. Some time after 1954 the Ministry took the responsibility for the publication of Schakels upon itself alone. From then on the various issues appeared in print and were well illustrated. The issues dealing with Netherlands New Guinea were marked Schakels NNG. Unfortunately, this marking was sometimes omitted, so that it may be of some use to know that of the mimeographed issues published by the Rijksvoorlichtingsdienst the following numbers deal with Netherlands New Guinea: 55, 59, 62, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, and 95-97. Of those published by the Ministry of Overseas Territories, and later (once the affairs of Netherlands New Guinea had become the responsibility of a Secretary of State under the Minister of the Interior) by the Ministry of the Interior, numbers 20-36, 38, 41, 42, 44, and 47-52 are devoted to Netherlands New Guinea. It is not without interest to know that the authors invited to publish in this information series were often specialists in their respective fields.

A popular, politically oriented magazine concerned with Irian was Nederlands Nieuw-Guinea (abbreviated as NNG), 's-Gravenhage: Stichting Nationaal Nieuw-Guinea Comité, 1953-62. Another popular monthly which often contained articles on New Guinea in those years was Oost en West, ('s-Gravenhage: Vereeniging "Oost en West", 1934-71). In Irian the Government Information Service published every month, from 1954 onward every week, a Malay newspaper: Pengantara, (Hollandia: afd. Bevolkingsvoorlichting, 1952-58). In 1955 this was followed by an illustrated magazine written in Malay, namely Triton, which appeared in Hollandia every month from 1955 until c.1962.

Finally, there is quite a number of serials devoted to special purposes. Thus, dealing with the economy of Irian, there was Statistiek van de Buitenlandse Handel van Ned. Nieuw-Guinea, (Hollandia: Departments of Finance and Economic Affairs, 1959-62, an annual), and Mededelingen Nieuw-Guinea Instituut Rotterdam (Beursgebouw), which appeared six times a year from 1954 to c.1961. The Health Department published an issue of about 90 pages of MDVG, Mededelingen van de Dienst van Gezondheidszorg in Nederlands Nieuw-Guinea, (beginning from 1954) once every three months, and from 1957 onward an annual report of the central hospital at Hollandia, the Jaarverslag Centraal Ziekenhuis (both mimeographed).

Also in mimeographed form are the following serials published by government agencies: Publicaties en Mededelingen van het Meteorologisch en

Geophysisch Bureau (Publications of the Meteorological and Geophysical Bureau, Hollandia, 1957-62) and Mededelingen van de Landbouwkundige Afdeling, (Manokwari: Landbouwkundige Afdeling van de Stichting voor Agrarisch Onderzoek ten behoeve van Nederlands Nieuw-Guinea (the Agrarisch Research Station at Manokwari), 1959-62).

These official and semi-official serials were stopped at the transfer of the administration of Irian to Indonesia. Since 1970 some new serials have appeared in Irian, the most important of which is Irian, Bulletin of Irian Jaya Development (abbreviated as IBIJD, Jayapura: University of Cenderawasih (UNCEN since 1972), Institute of Anthropology).

Other serials are Asmat Papers (Jayapura: UNCEN, 2 vols., M.T. Walker (ed.), 1974), a publication of reports of field work by staff members made possible by the Rockefeller 3d Fund grant, and An Asmat Sketchbook (Jayapura: Diocese of Agats-Asmat, F. Trenkenschuh (ed.)). This is a compilation of missionary notes on various aspects and the history of Asmat culture and society as well as those of some of their neighbours, including notes on the history of missionary activities in the area. Between 1970 and 1977 six volumes have appeared (which also included contributions by non-missionaries). Note: It is not uncommon to find Asmat Sketchbook mentioned as being published in either Asmat or Jayapura, but the cover states that copies are available from Crosier Missions, Box 709, Hastings NE, 68901 USA.

Another periodical to be mentioned here is *Majalah Universitas Cenderawasih* (abbreviated as MUNCEN or MUC, Jayapura: UNCEN, from 1963).

1.3. Maps

For an introduction to the problems of map making in Irian, see: Kint, Scherpbier and Van Asbeck (1954). On the subject of nautical conditions and maps the reader should consult the *Zeemansgids* (1951) and its later supplements. According to p. X of this *Zeemansgids*, nautical charts of the Irian region may be obtained from *Pedjabatan Hydrografi* at Jakarta. The latter has a stock of Dutch nautical charts, tide-tables, naval guides, and so on.

The maps of the territory and adjacent islands are of many kinds. In fact, there is a plethora of maps of divergent quality. The first usable maps were the three 1:1,000,000 maps which (with a number of auxiliary maps) were drawn by the military explorers of the country between 1907 and 1915 and published in *Verslag militaire exploratie* (1920). The maps were based exclusively on terrestrial observation, and consequently are not always accurate. One of the present authors has had the experience, for instance, of finding that the map of the south-eastern coastal area had about 5 too many km. Comparison with the post-war aerial survey map reveals that the distance between the Maro River and the international border is considerably smaller than the early cartographers had supposed. Another deficiency of these maps is that they cover only part of the territory; a substantial part of the central mountains was still unknown at the time of drawing. Though successive expeditions have added considerably to our geographical knowledge, many gaps have remained, as is well illustrated by the 1:2,500,000 map of the territory made by the *Topographische Dienst* at Batavia in 1938 which is included in vol. III of Klein's *Nieuw Guinee* (1938). On this point cf.

also Pannekoek (1937-38 and 1938-39).

An advantage of the older maps is that they mention a great many names of settlements or rivers. However, a number of these were rather haphazardly selected or were the result of misunderstandings caused by linguistic difficulties. We should not blame the makers too much on this point. Really blameworthy are the producers of later maps who copied the names on the maps of these military explorers without inquiring whether these villages still occupied the same spot (village migration is frequent in these parts) or whether the names used needed correction. Aerial observation and subsequent map-making has hardly ever been complemented by adjustment, on the basis of terrestrial observation, of the locations of settlements and other geographical features and the names under which they are currently known.

A case in point is that of the maps produced during the war by the USA Armed Forces and collected and distributed as Netherlands New Guinea Terrain Intelligence (1943). Based partly on aerial photography, partly on older maps and other information of all sorts, these maps were better in various respects than the old ones, but nonetheless far from ideal. Besides, they were not public property. Originally, they were marked as confidential, and though after the war no one seems to have taken this seriously, they became increasingly rare as most of these maps disappeared into private collections.

After the war, in 1953, the Dutch Government published a new map drawn by the Topografische Dienst at Delft on a scale of 1:1,000,000. It certainly had its merits (as every new map has), but still suffered from many of the shortcomings of its predecessors. A renewed systematic aerial survey followed. It resulted in a collection of coloured maps on a scale of 1:100,000, published by the Topografische Dienst at Delft (Netherlands) under the caption: Kaart van Nederlands Nieuw-Guinea op de schaal 1:100.000. Of the planned number of about 300 map-sheets, some 200 had been completed when in 1962 the Dutch withdrew from Irian (see the map on p. 6). The work had to be discontinued, and the task of filling in the relevant geographical names on the maps already completed had to be abandoned. This is a great pity, because the provisional maps published were of good quality. Deplorable, too, is the fact that a reprint of these maps (which had a very restricted distribution) is by now impossible. The same is the case with another publication of the Topografische Dienst, namely a map on the scale of 1:1,000,000 of the southern (Merauke) section of the complete map. Two others which had been planned, covering the northwestern and north-eastern sections of the territory, never appeared.

For practical purposes the best maps now available are those published by the American Army Map Service, Washington D.C.: Corps of Engineers US Army; sheets SA 53, Biak; SB 53, Kaokanao; SA 54, Aitape; SB 54, Ambunti; SC 54, Torres Strait.

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II

CLIMATE, GEOLOGY, AND SOILS

II.1. Climate¹

For a general description of the Irian climate the reader is referred to Braak (1954). Since 1954 a considerable amount of more detailed information has been made available in the Publicaties en Mededelingen van het Meteorologisch en Geofysisch Bureau (Bureau for Meteorology and Geophysics) at Hollandia, the first of which appeared in 1957. They were continued until a few years (exact data are impossible to give) after the departure of the Dutch (1962).

Much general information can be found in the Bureau's Publication no. 13 (Bureau for Meteorology 1962). The observations derive from 10 stations, namely: Hollandia (Haven), Hollandia (Sentani), Biak (Mokmer), Manokwari (Rendani), Mapia, Sorong (Jefman), Kaimana, Tanah-Merah, Merauke (Mopa) and Balim (Wamena), and give information on: monthly means of air pressure, air temperature, vapour pressure, relative humidity, wind speed, cloud amount, precipitation, duration of sunshine and number of days with thunder for 10 stations. Included are data for each year together with a five-yearly mean, and extreme values of the temperature and the number of days on which a specified amount of precipitation or a specified temperature was exceeded.

Other publications of the Bureau deal with precipitation and sunshine and global radiation respectively in more detail. These include on precipitation, Publications nos 2, 3, 5, 6, 7, 8-12, 17-19, Mededeling no. 1, and two maps (Bureau for Meteorology 1952-64, 1958, 1959b, 1959c, 1960a and 1960b), and on sunshine Publications nos 1 and 4 (Bureau for Meteorology 1957 and 1959a). After 1963 data concerning global radiation in Wamena (1959-61) and Sentani (1957-60) were published (Publications nos 15 and 16).

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11.2. Geology²

11.2.1. Introduction

The exploration of Irian geology started in the early years of this century and has since developed rapidly. The scientific views concerning the island's geological history have changed accordingly. For this reason it seemed advisable to precede the condensed bibliography presented below with a brief outline of some of the main points of Irian geology.

The island was formed by tectonical forces resulting from the shift of the Australian continent towards the Melanesian submerged block. The sediments lying in between were folded, and locally some volcanic activity took place. The greater part of the island is of Oligo-Miocene age; the uplift of the mountain areas began at that time and continued up till Plio-Miocene and recent times. Traversing the island from south to north, we come across the large and flat, low-lying Digul-Fly depression, bordering the very steeply rising Central Mountain Range. Locally in this range we meet with some elevated valleys, such as the Wissel Lakes, the Kamu Valley and the Balim Valley. Near the border with Papua New Guinea (141°E.L.) some local volcanic activity is present; it extends to the east, where it becomes more important.

Northward on the mainland the low-lying Lake Plain is found, bordered by the Northern Dividing Range. The northern coastal plain forms part of the Mamberamo Trough; it is flat except for some parts on the eastern side, where the border with the Melanesian platform is marked by mountains, such as the Cyclop Mountains.

In the Bird's Head the tectonic movements have been highly influenced by the pressure and the folding of the Banda-arc system in the west. In the northern parts of the Arfak Mountains locally some old volcanic units are found.

In the transitional area between the bended part of the Central Mountain Range system and the Tamrau Mountains some valleys occur, such as the Kebar plains and the Angi Lakes.

The oldest Paleozoic formations are represented by the Permian-Carboniferous sediments in the Central Range and the metamorphic rocks (Schists, Gneiss and basaltic intrusional material) on the northern flank of that range as well as in the middle of the Northern Dividing Range, and in the middle of the northern Bird's Head and on some of the islands (e.g. Japen and Waigeo). Crystalline intrusions and metamorphic rocks of the Cyclop Mountains represent much older formations. Mesozoic (Jurassic to Senonian) sediments are present on both sides of the Paleozoic rocks of the Central Range, but predominate in the highly elevated valleys. The New Guinea limestone of the Tertiary period (Paleocene-Miocene) forms extensive mountain areas in the Central Range and large parts in the centre of the Bird's Head, and also parts of the islands in Geelvink Bay. The Plio-Pleistocene formations (silt and sandstones, limestones, marls and shales) are found on the southern flanks of the Central Range: they cover large parts of the Northern Dividing

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Range and are also present in the Bird's Head and on the Bomberai peninsula, in Biak and on other smaller islands.

The low-lying southern plains as well as the Lake Plain and the northern coastal areas are covered by younger Quarternary deposits.

II.2.2. General Works

The first overall descriptions of Irian geology appeared in two works on the geology of Indonesia which devoted special sections to this part of the archipelago (Umbgrove 1949, Van Bemmelen 1949b). Summary surveys of Irian geology and mineral resources have been presented by Van Bemmelen (1949a), and Gheyselinck (1949). Later publications on general geological aspects are, among others, Verstappen (1960), Hermes (1974), and Helmcke et al. (1978).

II.2.3. Geological Exploration

The literature on the geological exploration of Irian is immense and is spread over a great variety of journals and other publications. The earlier publications belong to the period of exploration dealt with in section VI.2.2 (Expeditions). Alongside the few geologically relevant publications there listed, mention must be made of Heldring (1911), Brouwer (1917, 1923), Loth (1924), Rutten (1923, 1924), and Zwierzycki (1921, 1927, 1930).

A new period of geological research started with the arrival of two private companies in the Irian area, The most successful of these was the Netherlands New Guinea Petroleum Co. (NNGPM). It began its activities in 1935 and continued in operation until 1960. In 1962 the NNGPM left the area, but shortly afterwards its successor, Pertamina, took the initiative for further research. On the geological investigations under the aegis of the NNGPM, see: Visser and Hemmes (1962). This publication contains a wide variety of articles and many (coloured) geological maps of the territory.

Later research concentrated on the tectonic history, geology, operations on reefs and oil fields in the Salawati basin, and later also on the Bombarai and Bintuni basins. On the former a series of articles appeared in the Abstracts of the meetings of the American Association of Petroleum Geologists and SEPM (Abstracts 1974, Froidevaux 1978).

On the prospects of exploration generally, see Soeparjadi (1974). The N.V. Mijnbouw Maatschappij Nederlandsch Nieuw-Guinea, which went in search of gold and other minerals in 1937, was less fortunate. At the outbreak of the war it stopped its activities, and did not resume these after the war. Instead, the Government encouraged and sponsored mineral research undertaken by the Mining Department of the Delft University of Technology, supervised by professors C.L. van Nes and G.J.H. Molengraaff. In 1959 the mineral research organization was institutionalized in the Foundation Geological Investigation New Guinea. More details on these government sponsored activities can be derived from the bibliography added to the monograph by d'Audretsch et al. (1966). A concise résumé of the mining potentials of Irian is to be found in Vink (1960). For later reports on mineral resources and their exploitation see Reynolds et al. (1973) and Wilson (1981).

A fascinating feature of Irian are its glaciers. For early reports on these glaciers see section VI.2.2 (Colijn and Dozy), but also Hope et al. (1976), and Hope and Peterson (1975).

11.3. Soils³

The pedological (soil science) investigation of Irian soils began in 1932, when F.A. Wentholt undertook his first expedition, which carried him to five locations on Irian's north coast. Other investigations followed, both by him and by others, but even today our knowledge is fragmentary. As the accessibility of many parts of the island is poor, systematic soil surveys of larger areas are rare. The areas examined for their agricultural potential are relatively small and most of the investigations tend to confirm the view, expressed in an early publication on Irian soils by Mohr, that in general the soil fertility is low. In the main, agricultural potential is confined to young alluvial valleys and coastal plains.

The first study on Irian soils in general, the one alluded to in the preceding paragraph, is found in the chapter on New Guinea in Mohr (1934). At the time the available information was very scanty indeed. The progress made since is reflected in Van Baren (1954). As a preliminary introduction to the subject the article has its merits. But it has the disadvantage that it uses an outdated terminology, which modern pedologists have since exchanged for a new one, that is utterly unfamiliar to students of other disciplines. To find his way among its terminological distinctions, the interested outsider should consult the detailed inventory of Papua New Guinea soils drawn up by Bleeker (1983). The work provides a model for the type of description one would wish to see available to Irian development workers in connection with their manifold problems with soil fertility. Soils in Irian are of a diversity equal to that of Papua New Guinea, a diversity which can be summarized as follows: In the young and flat coastal areas and river estuaries various types of hydromorphic soils are found, such as alluvial soils, Hydraquents and Tropaquents, bog and peat soils, Histosols, Fibrists and Hemists, and acid sulphate soils, Sulfaquents. Locally a range from saline soils, Halaquents, to soils having an illuvial clay layer, Natraquents, may be encountered in subrecent marine clayey deposits.

In the southern parts of these same plains, on the lower elevated shields, older and poorer greyish to yellowish soils with clay illuviation, Udults, often with hydromorphic features and with whitish horizons or white and purple coloured mottles, Aquults, and sometimes rich in hardened material or concretions, Paleaquults to Plintaquults, are dominant. Northwards, on the slopes of the uplands, we find complexes of eroded and young soils, Tropepts, and more developed soils, Tropudults, both often in the Lithic subgroup. In the belt of mountains of intermediate elevation of the Central Mountain Range variants of complexes of eroded Udepts, stony or Lithic phases and often hydromorphic soils, Aquepts, up to poorer more developed soils with clay movement or with podzolic features, Aquults, are encountered. At the same elevations in the centre of the island peat soils, Fibrists, are present in the mossforest zone. The soils in the higher elevated intermountain valleys consist of Histosols, often floating, and hydromorphic mineral soils like Aquepts and transitions of these main groups. Above the tree limit the soils comprise complexes of shallow and stony soils: Entisols,

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sometimes hydromorphic soils, Aquepts, and in the higher parts with a cryic temperature regime, often containing peaty, Histic, phases. The highest peaks are covered with eternal snow or have bare stony or rocky slopes.

In the Northern Dividing Range complexes of brown to yellowish younger and older soils with clay illuviation, and in the range of shallow and stony to deeper and sometimes hydromorphic profiles, Inceptisols and Ultisols, are dominant.

In some limestone areas, also on several islands, older red soils, Rhodustalfs, and shallower soils rich in carbonate, Rendolls, form the transition between smaller and greater karstic areas.

At the foot of the slopes of many mountains colluvial fans and transitions into alluvial fans bear younger soils, Entisols and Inceptisols, besides other deposits, like stone streams with coarse boulders.

At the foot of the Cyclop Mountains, very strongly weathered, old and purplish red soils rich in ironoxides, Oxisols, are found.

Narrow beaches and ridges are composed of sandy soils or Psamments. In soil investigation and mapping two periods may be distinguished, viz. the pre-World War II period of scarce, local reconnaissance mapping, and the post-war, more intensive type of mapping with the aid of aerial photographs, carried out mainly to investigate agricultural potential in plains, valleys and other areas, see Reynders (1961a).

In the past the influence of man on the soil was very limited (local erosion or landslides). Recently in some coastal regions (e.g. to the south of Geelvink Bay) numerous wild occupations are taking place without environmental factors being taken into account, which may cause soil deterioration in the future.

A collection of results of numerous soil surveys carried out in Irian up to 1962 is presented in Haantjes et al. (1967). In this work attention is paid to soil forming factors of the major soil groups, which are illustrated on a coloured soil map, 1:2,500,000. References are given here to all published and unpublished soil reports and surveys and investigations in both the eastern and the western part of the island. These unpublished or mimeographed reports are present in the library of the Agricultural Research Institute at Manokwari.

General information on Irian soils may also be drawn from various chapters of the well-known handbook by Mohr et al. (1972). On nutritive elements, deficiencies and tropical crops, see Schroo (1959, 1961, 1964a, 1964b). For publications on soils, soil suitability and shifting cultivation, see Reynders (1961a, 1961b, 1962a, 1962b, 1962c, 1964). Some articles covering the field between geology and pedology are Ashizawa (1971) and Reynolds et al. (1972). On sheet IX, South-east Asia, of the Soil Map of the World, scale 1:5,000,000, the soil distribution of Western New Guinea is given. The explanatory text is presented in vol. IX of the FAO/UNESCO publication, 1976.

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ZOOLOGY AND BOTANY

III.1. Zoology

Social scientists conducting field research in Irian should have a reasonable knowledge of the animals and plants of the area, and more so of the plants than of the animals. It is on plants that the people rely for their food and medicine. They are horticulturalists and most of them have a keen interest in, as well as a good practical knowledge of, the plants of their environment. For this reason we can afford to be brief on the fauna of the area. For an introduction to the fauna of the area the following publications are recommended: Westermann (1947, 1948-49), Boschma (1954), Brongersma (1954, 1956a, 1956b, 1958), and Konrad and Sukarja Somadikarta (1975).

III.2. Botany¹

Summary introductions to the flora and vegetation of Irian are provided by Beversluis (1954) and Van Steenis (1954). More elaborate are Paymans (1976), Van Balgooy (1976), and Fundter and Wisse (1977). A phytogeographical analysis which provided the basis for Van Balgooy, is Lam (1934). Useful introductions to food crops and ethnobotany are given by Massal and Barrau (1956), Barrau (1958, 1963), and Powell (1976). For the determination of plants use may be made of Backer and Bakhuizen van den Brink (1963-68), a complete, non-pictorial, flora, useful for the identification of a wide range of "ordinary" plants in Irian such as weeds and roadside and garden plants, and of the Handbooks of the flora of Papua New Guinea (Handbooks 1978-81). Of the latter, two parts have been published so far.

Further, mention should be made of a relatively brief work which may be of great use to the social scientist who sees himself confronted with problems of plant determination and feels the need to make enquiries with a botanical institute, namely Womersley 1969. Womersley (1981) is an elaborate manual for social scientists containing instructions for collecting and conserving herbarium materials. Among other works that may be recommended are the so-called Boswezen Rapporten, a series of aerial surveys and forest explorations published by the Forestry Service in Netherlands New Guinea, mostly between 1950 and 1961. Most of these reports are mimeographed, others only typewritten. Usually pho-

¹ By Prof. C. Kalkman, now director of the Rijksherbarium at Leiden, and formerly research fellow with the Agricultural Research Institute of West New Guinea.

tographs and tables are included. These reports are kept in only a few places, some of them in the library of the 'Rijksherbarium' at Leiden, others in the Rapporten Archief van het Kantoor van Bevolkingszaken (see Nienhuis no. 895). Perhaps a complete set is to be found in Manokwari and/or Jayapura. Included are reports on: Asmat, Moni-Ransiki, Tor-Biri, Sekoli, Warsamson, Kebar, Beriat, Muyu, Boven-Digul, Sedei-Wasiki, Siduarsí, Oost-Yapen, Tami, and Pionierbivak.

Another series that is recommended is the Land Research Series, edited by CSIRO (Commonwealth Scientific and Industrial Research Organisation, Canberra). It provides data on climate, soils, land utilization, vegetation, geomorphology. The series also includes reports on parts of Papua New Guinea (1952-77). Further titles on botany have been included in section III.3.

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IV

PHYSICAL ANTHROPOLOGY AND DEMOGRAPHY

IV.1. Physical Anthropology

As general introductions to subjects relating to the racial history of the Western Pacific and the Indonesian archipelago Jacob (1967) and Bullwood (1980) are recommended. An introduction to the anthropobiology of the Irian people is presented by Simmons et al. (1967, 1971) and Gajdušek et al. (1978). More specific anthropobiological research data from Irian may be found in Meyer (1875-78), Van der Sande (1907), Koch (1908), Van den Broek (1913, 1915a, 1915b, 1918), Pycraft (1916), Bijlmer (1922, 1928a, 1928b, 1935, 1939), Wirz (1923-25, 1924, 1926), Kleiweg de Zwaan (1928, 1932, 1933a, 1933b, 1935, 1942, 1956), Kleiweg de Zwaan and Van Bork-Feltkamp (1938), Bos (1935), Brouwer (1939), Hambly (1940), Graydon et al. (1958), and Nijenhuis (1961).

IV.2. Demography

By far the best and most elaborate study on the demography of Irian is Groenewegen and Van de Kaa (1964-67). The report is based on three years' extensive field research in six different regions: Schouten Islands, Numfor, Lower Waropen, Nimboran, Fakfak, and Muyu, covering some 79,000 individuals. Research in two more areas had been planned but could not be conducted because of the Indonesian intervention in 1962. All the same, we are indebted to the team for a considerable amount of data, and to its leaders, the authors of the report, for a well considered analysis of the facts.

The first time Papuan demography received public attention was in 1919, when the R.C. missionary Vertenten was summoned to Batavia because of his alarming press reports claiming that the population of South New Guinea was dying out. This resulted in an anti-venereal granulome campaign in the area. The campaign was successful, but the demographic situation of the area ever afterwards continued to draw attention (Sitatala 1926, Van Baal 1934 and 1939, Boldingh 1951-52).

The scientific demographic study of Irian began with the research of the so-called 'Depopulation Team' into the causes of depopulation among the Marind-anim. On this project see Rapport Bevolkingsonderzoek (1958), Kooijman (1959), and McArthur (1968). Copies of the Rapport Bevolkingsonderzoek are rare but may be consulted at the Rijksmuseum voor Volkenkunde at Leiden, and at the SWO (Social Science Research) department of the Royal Tropical Institute at Amsterdam. The researches of the 'Depopulation Team' had a stimulating effect on the activities of some of the medical officers in the area, such as Van der Hoeven (1956a, 1956b, 1956c), and Voors and Metselaar (1958).

The interest in demographical problems culminated in the researches

of Groenewegen and Van de Kaa (1964-67). On this point see also: Zwart (1965) and Van de Kaa (1967, 1970). Since, a new census has been taken, namely in 1971 (*Sensus penduduk 1971*). Unfortunately the results of this census have not yet been analyzed.

Meanwhile, many of the old problems remain. One of these is the masculinization of the sex ratio in situations of population decline, first reported by Van Baal (1939) and since reconfirmed by Oosterwal (1959).

There are other problems besides, such as that of 11,000 years of human exploitation of the sub-alpine areas near the Jayawijaya Mountains discussed by Hope (1977). It forms but part of a more comprehensive problem, that of the high population density in the highlands and the low one in the lowlands, where endemic malaria has for generations caused a continuing decrease in numbers. We may take it for granted that for a long time the gaps were filled by migrants descending from the mountains, a movement that is still continuing today. Yet there are indications that since about the end of the 18th century this descent of mountain dwellers has slowed down significantly, with an increasing depopulation of part of the lowlands as a result. The Lake Plain, the Etna Bay hinterland and the southeastern lowlands are cases in point. Insufficient attention has been given to the obvious possibility that the halt in highland emigration may have been caused by the introduction of *ipomoenia batatas* to the highlands. Batatas thrive at altitudes of up to 2,000 metres, a circumstance which opened a probably welcome opportunity of occupying more elevated highland regions where taro, the original food crop of the highlanders, does not grow.

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V

LINGUISTICS¹

V.1. Introduction

The present chapter has been devised as a practical guide to serve the needs of both the non-linguist field researcher in Irian and the linguist who is new to this area. Consequently, information that is too outdated or unimportant, or which lies buried in journals which are very difficult to find, has not been taken into consideration. Nevertheless, if the list of relevant works presented here looks to be short, this is not the result of this selective approach. It is simply a reflection of the deplorable fact that, in spite of considerable progress in recent years, only the first steps have been taken towards the description and classification of the multitudinous languages spoken in this vast area.

V.2. General

A preliminary linguistic map of the area is found in Galis (1955). Better maps - though certainly not complete or without errors - are those in Salzner (1960). The best so far are those in Wurm and Shirô Hattori (1981). For a general survey of the languages of Irian mention may be made of Capell (1969). Check-lists of languages in this area are found in Voorhoeve (1975b) and Barr and Barr (1978). The history of linguistic research in the area is dealt with by Anceaux (1953b), Laycock and Voorhoeve (1971) and Laycock (1972). General introductions are found in a variety of works, such as Anceaux (1953a, 1965b, 1971), Boelaars (1953), Wurm (1971, 1975a, 1975b, 1982) and Hay (1980). A useful manual for beginning field workers is Cohen (1976). A variety of problems is discussed in Cowan (1953a, 1954-55a, 1954-55b, 1959a) and Drabbe (1955-56a, 1955-56b). A set of specific problems is that of the classification of the Austronesian (Malayo-Polynesian) languages of the area, of the boundary to be demarcated between these and the non-Austronesian languages, and the classification of the non-Austronesian languages. A prolific author on these three subjects is Cowan. On the classification of the non-Austronesian languages see more specifically Voorhoeve. Of interest in this context are Cowan (1949-50, 1951-52, 1953b, 1957a, 1957b, 1957-58, 1959b), Voorhoeve (1968, 1969, 1971, 1975a), McElhanon and Voorhoeve (1970), Wurm, Voorhoeve and McElhanon (1975), and Heeschen (1977). For other works on Irian comparative linguistics see also Larson (1972 and 1977), Kafior and Suharno (1977), and Stokhof et al. (forthcoming).

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V.3. Bahasa Indonesia in Irian

A subject of great practical interest is the use of the Indonesian language in Irian. This is dealt with by Roosman (1977), Silzer (1978), Suharno (1979), and Suharno and Pike (1976).

V.4. Languages of the Eastern Part of the Jayapura Division

A review of the languages of this area, later republished in Cowan (1953b), is presented in Cowan (1952-53). The Austronesian languages spoken in the immediate surroundings of Jayapura are discussed in Galis (1954-55) and Kern (1900). On the Sko language, recognized by Cowan as a tonal language, see Cowan (1952a). Cowan also studied the Sentani language, of which he published a complete grammar (Cowan 1950, 1950-52, 1952b, 1953c, 1965). Other studies on the Sentani language are D. Hartzler (1976), M. Hartzler (1976), Moolenburgh (1906) and Sterner (1972). For the Kemtuk language (West of Lake Sentani) there are descriptive articles by Mr. and Mrs. Van der Wilden (1975, 1976). Further to the west still is the area of the Nimboran language, described in Anceaux (1965a), and May and May (1981). Masinambow (1968) is a review of Anceaux (1965a).

V.5. Languages of the Western Part of the Jayapura Division

From this area (the Sarmi and Mamberamo subdivisions) three languages have been described, namely the Berik, the Isirawa or Saberi, and the Bauzi language. Besides, a comparative study of the Austronesian languages spoken on the Sarmi coast has been published by Grace (1971). In this connection Sterner (1976) should also be mentioned. Berik is a language of the upper Tor River, where it is in use as a lingua franca among the nomadic groups in the region. The Berik language and the languages of some related groups are analysed by P.N. Westrum and S. Westrum (1975, 1976), P. Silzer (1976), S. Silzer (1976) and J. Sterner (1973). On the Isirawa or Saberi language the reader may consult Oguri and Erickson (1975), Erickson and Pike (1976), Oguri (1976), and Oguri and Cochran (1976). The Bauzi language has been studied by D. Briley (1976) and J. Briley (1976).

V.6. The Languages of the Geelvink Bay (T. Cenderawasih) Region

The languages spoken in this region are mostly Austronesian. An overview of a number of these is found in Anceaux (1961). The most important language of the region is Biak/Numfor. For our knowledge of this language we are indebted to the Van Hasselts (father and son), who wrote a dictionary and a very brief grammar, as well as editing a good collection of texts (1902a, 1902b, 1905, 1908, 1936-37, 1947). In recent years this information has been extended and significantly updated by Soeparno (1975, 1976, 1977). Information on the Windesi-Wondama language is confined to a number of texts with a translation and wordlist by Van Balen (1915) and a grammatical sketch by Cowan (1955-56). Of all the languages of the region, only the Waropen language has

been fully described. One and the same author has produced a grammar, a dictionary and a rich collection of texts, namely Held (1942a, 1942b, 1956). Finally, mention should be made of two of the less widely spoken languages of the region, that of Mo(o)r Island, and that of Ambai (Yapen), which have been described by Laycock (1978) and S. Silzer (1979) respectively.

V.7. The Languages of the Bird's Head and the Radja Ampat Islands

A summary review of the languages of the Bird's Head and those of the Radja Ampat has been presented by Cowan (1953b, chapters III and V). He also wrote on the relations between the Bird's Head languages and those of Halmaheira, and devoted a brief comment to the geologist Van Peski's forgotten communications on the language of Misol (Cowan 1954 and 1960, Van Peski 1914). The westernmost part of the peninsula is dealt with by Stokhof and Flassy (1982) and by Stokhof (forthcoming). There are many other languages spoken in the Bird's Head peninsula, but there are only two on which we have any record at all, namely Tehit and Kebar, which are described by Flassy and Stokhof (1979) and Miedema and Welling (1982).

V.8. The Languages of the Fakfak Peninsula

Our knowledge of the languages of the Bird's Head may be scant, that of the linguistic situation in the Fakfak region is even worse. All we have is a brief survey by Anceaux (1958) and a few earlier publications by Le Cocq d'Armandville (1903) and Tismeer (1913).

V.9. The Languages of Mimika and the Southern Division

More information is available on the languages of the southeastern lowlands from Mimika to the international border. A broad overview of these languages is presented in Boelaars (1950) and Drabbe (1950a). A comparative study had been made by Healey (1970). Going from west to east quite a number of descriptive studies can be recorded. These are, on the Mimika coast, Drabbe (1947-50, 1953). The Asmat language has been broadly described by Voorhoeve (1965, 1969), who has also compared the Asmat with the Sentani language. Earlier publications on the Asmat language are those written by Drabbe (1959b, 1959c, 1963). Drabbe did far more than all this. He was not a professional linguist. But if he should be described as an amateur, he was an amateur with style and an untiring devotion to duty. He started his career as a Roman Catholic missionary, and it was in the service of his mission that he described one language after another. We are indebted to him for a wealth of very useful information, not only linguistic but in his younger years also ethnographic. Justifiably famous is his ethnography of Tanimbar (*Het leven van de Tanémbarees*, 1940), which he wrote in addition to his studies of Tanimbarese languages. When in 1936 the Sacred Heart Mission called him to the Irian field (Mimika), he specialized exclusively in linguistics. One of the areas in which he was active was that of the Auyu languages, quite an extensive field which covers a

large region to either side of the middle Digul River, the Wildeman River region, and the upper Asuwé. His studies on these languages have been published in Drabbe 1950b, 1957, 1958 and 1959a. Drabbe also wrote three relatively short studies on the languages of Kolepom (Drabbe 1949a). Equally short or shorter still are his sketches of the languages spoken between the Digul and the international border south of the Fly River (Drabbe 1950a, 1954). In the latter category he also included the language of the Yaqai on the Mappi, North of the lower Digul. The other languages discussed here are those of the Moraori, Yéi, Kanum, Yelmek, Makléw, and Mombun, of the Marind of the upper Bian, of the Gawir area, and of the Boadzi. Most of these studies are to be found in the microfilm collection Drabbe 1954, commented on by Wurm. A more voluminous work is Drabbe's grammar of the Marind language (1955). It replaced the earlier but highly confusing grammar of that language written by Geurtjens (1927), the author of a very useful dictionary of this language (1933). In this context mention should be made also of the work which laid the foundations for Geurtjens' dictionary, namely Vertenten and Van de Kolk (1922). Finally, a study of the Boadzi language is to be found in Voorhoeve (1970).

V.10. The Languages of the Central Mountains

Research into the languages of the Central Mountains began with the compilation of simple wordlists, such as those by Van Nouhuys (1912), Le Roux (1926, 1948-51) and Feuilletau de Bruyn (1952-53). Comparative studies were made by G.F. Larson and M.O. Larson (1972), G.F. Larson (1977) and Fahner (1979). Larson's publication of 1977 contains a lexicostatistical comparison of the following languages: Ekagi, Wodani, Moni, Damal Atowa, Damal Ilaga, Dem, Wano, Wano Turumo, Western Dani, Pit River dialect of North Balim, Western Dani of Grand Valley, Wodo, Mid Grand Valley, Hitigima, Tangma, Kiniageima, Yalimo and Nduga.

The Ekagi and Moni languages have been described by Doble (1950, 1960), Drabbe (1949b, 1952) and Steltenpool (1969). Linguistic studies of the Dani languages have been made by Bromley (1961, 1966-67, 1972, 1973, 1981), Van der Stap (1966) and Simanjuntak (1980). Various other languages have been described by Heeschen (1975, 1978, n.d.) and Heeschen et al. (n.d.), Louwarse (1978a, 1978b), Bromley (1978) and Louwarse and Van der Wilden (1978).

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VI

HISTORY

New Guinea is one of those remote regions whose history begins with its discovery by other nations. Irian took its first wavering step into recorded history with Prapañca's mention of Wwanin as one of the dependencies of Majapahit (Nagarakrtagama 14-5-3). The name Wwanin has since been identified with Onin, the northwestern part of the Fakfak peninsula (Rouffaer, *Encyclopaedie van Nederlandsch-Indië* IV:385). Later, more substantial information was provided by the Portuguese and, after them, the Dutch and the British. Their respective discoveries cover a period of almost four and a half centuries. For our knowledge of the early history of Irian we are wholly dependent on the results of researches conducted by prehistorians, which are summarized in the first section of this chapter. A summary survey of the history of Irian as a whole is to be found in:

Galis, K.W.

1953 'Geschiedenis', in: Klein's Nieuw Guinea I, pp. 1-65.

VI.1. Prehistory

Professional archaeological and prehistorical research has been restricted to the investigations of J. Röder (1938, 1938-39, 1939a, 1939b, 1939-40, 1940a, 1940b, 1955-56 and 1959), and W.C. Solheim (Solheim 1958, Solheim and Ap 1977, Solheim and Mansoben 1977). Most of the discoveries made are by students engaged in anthropological research generally, especially those taking a personal interest in archaeology and prehistory such as K.W. Galis (1950, 1954, 1956, 1957a, b, c and d, 1960, 1961, 1964) and Galis and Kamma (1958-60). All other finds were mostly a matter of sheer luck.

So far, the objects of study have been confined to rock-paintings (Röder and Galis), potsherds and kitchen-middens (Solheim), and occasional bronze objects and stone artefacts no longer in use among the local population. A case apart is that of the Jembekaki fortress on Bantant (Radja Ampat Islands). All these matters have been discussed in the publications listed below.

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1957b 'De grotten van Jaand', *NGS* 1:14-24.
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VI.2. Discovery and Exploration

VI.2.1. Early Discoveries

A complete review of the early history of the discovery and exploration of the whole of New Guinea, including Irian Jaya, from the beginning up to 1902, is presented by Wichmann (1909-12). The work is indispensable for the student of the history of the discovery of New Guinea. A good table of contents, a perfect index and a large quantity of maps make the voluminous work easily accessible to anyone in search of detailed information on any special point.

Another important historical work, more specifically concerned with the political contacts of the Moluccan princes and of the Dutch with Irian, is Haga (1884).

Specific works on the discoveries made by early Dutch and English navigators (among which Leupe's work of 1875 is outstanding) are Van Dijk (1859), Engelbrecht en Van Herwerden (1945), Forrest (1779) and Leupe (1859, 1875, 1876 and 1877).

Reports written by 19th century explorers and sailors are those by Kolff (1828), Modera (1830), Van der Goes et al. (1862, the presump-

tuous title of this work is not justified by its content; see Leupe's criticism, 1871), Goudswaard (1863), Meyer (1873a, 1873b, 1875a, 1875b), Von Rosenberg (1875), Von Miklucho MacLay (1876), Robidée van der Aa (1879, 1883, 1885), d'Albertis (1880), Meyners d'Estrey (1881), De Clercq (1891), and Beccari (1924). The latter must be a reprint of an earlier work, as the naturalist Beccari visited the Bird's Head region in 1872. Articles by Beccari (all in Italian journals) are referred to in Galis' bibliography (see chapter I).

VI.2.2. Expeditions

Expeditions are journeys by interdisciplinary research teams for purposes of exploration. The first of their kind in Irian was the Etna Expedition of 1858, which published its (fairly meagre) results in Van der Goes (1862). It was 45 years before a second expeditionary party of some size set foot on the coasts of Irian. From then on such expeditions followed each other in rapid succession. A comprehensive account of these multifarious expeditions has been written by Schumacher (1954). Schumacher did not restrict himself to a survey of the major expeditions reviewed below, but also took into consideration the many journeys by individual explorers such as mining engineers and civil servants. Still, his list is anything but complete as, in fact, every list must be: the anthropological researches conducted by Paul Wirz, for instance, are excluded from almost every record. For more details the interested student may also consult the successive volumes of TAG from 1902 to 1940. The Koninklijk Nederlandsch Aardrijkskundig Genootschap rarely failed to report, be it but briefly (though sometimes extensively), on attempts at exploration of the islands. On a number of specifically Dutch expeditions information may also be found in the Bulletins of the Treub Maatschappij (on which organization see chapter 1.2.2.). These Bulletins are not easily accessible, however, while for the greater part of their contents the reader may just as well consult the extracts published in TAG.

The first expedition, the Wichmann Expedition, organized by the Treub Maatschappij (Maatschappij ter bevordering van het natuurkundig onderzoek der Nederlandsche koloniën), set out in 1903. Its members were the geographer Wichmann (who also did geological research), the zoologist L.F. de Beaufort, and the naval surgeon G.A.J. van der Sande (for the anthropological and ethnographic aspects). Mr. H.A. Lorentz joined the expedition on his own account and at his own expense. The expedition started from Ternate, where the selftaught naturalist J.M. Dumas joined the company. The expedition enjoyed the enthusiastic support of the commander of the vessel placed at its disposal, the Govt. Civil Navy 'Gezaghebber' J.W. van Nouhuys, who was to play a part in various later expeditions and who ended his career as director of the ethnographic museum at Rotterdam. The expedition visited the Fakfak area, Yamur Lake, Manokwari and Geelvink Bay, Biak, and Mapia, and eventually concentrated on the Humboldt Bay region (including Sentani Lake, Nimboran and the eastern Sarmi coast). An account of the expedition's experiences can be found in Lorentz (1905). The geographical and ethnographical results of the expedition are described in Van der Sande (1907) and Wichmann (1917). Of some interest also in this context is H.E. baron van Asbeck's account of the visit paid to Irian's northeast coast by H.M.S. 'Ceram' in 1901 (Bulletin 41 of the Treub Maatschappij).

The second expedition was the Southwest New Guinea Expedition of the Koninklijk Nederlandsch Aardrijkskundig Genootschap (KNAG), undertaken in 1904-05 in preparation of a planned expedition to the Snow Mountains, an area which greatly excited the imagination of explorers and scientists in all the years which followed. The main purpose of the somewhat haphazardly arranged expedition was the exploration of the accessibility of the mountain region from the southwestern coast. Leader of the expedition was the naval officer R. Posthumus Meyes, and its members surgeon J.W.R. Koch, Controleur J. Seyne Kok, and military engineer E.J. de Rochemont. Govt. Civil Navy Capt. J.H. Hondius van Herwerden explored the course of the Digul River. Another important discovery was that of East Bay (Flamingo Bay), and the results of the investigation into the navigability of the Utumbué and the North (or Lorentz) River as potential entrance-ways to the interior. Of the members of the expedition only De Rochemont (accompanied by the Govt. geologist, C. Moerman), managed to penetrate deeper into the interior. They explored the Charles Louis Mountains. The results of the expedition were published in *Expeditie* (1908). In this sizable volume Posthumus Meyes describes the geographical part of the exploration, Koch his physical anthropological observations and ethnographical acquisitions, and De Rochemont his trip into the mountains. Seyne Kok published a number of wordlists.

In 1906 the Capt. H. Colijn, then ADC to the Governor-General (but better remembered as a renowned statesman during the years 1920-40), paid a visit to Merauke which inspired in him the proposal to entrust the army with the overall exploration and mapping of the territory (Colijn 1907). This proposal was well received. The first military team arrived at Merauke in July 1907, the last team departed from the Mamberamo region in January 1915. The final report appeared in 1920 (*Militaire exploratie 1920*). It included the maps discussed in chapter 1.3. The maps (into which the results of the expeditions up to 1913 have been worked up) provide an impressive picture of the work done by these exploratory teams. They covered the whole of the territory, with the exception of the Central Mountains region. Most of the teams also collected plants. The State Botanical Gardens at Bogor cooperated by making trained collectors (mantri) available. The collections were sorted out at Bogor, those species which could be dealt with in Bogor remaining in Indonesia, and the others being sent to Holland, where they were distributed among various institutes for further study and the ultimate publication of the results in *Nova Guinea* (cf. above, 1.2.2.).

In the meantime various other expeditions visited the country, all trying to find a route to the Snow Mountains. The first of the series was the first Lorentz Expedition. Sponsored by the Treub Maatschappij and its counterpart in Batavia, het Indisch Comité, and provided with the necessary means of transport by the Netherlands Indies' Government, Lorentz set out for Flamingo Bay and sailed the North River (later christened Lorentz River) up to the point where it is no longer navigable. From there he went northwards and ascended the Hellwig Mountains, where he had to give up for lack of victuals. Co-members of the expedition were J.W. van Nouhuys, Dumas, and the physician Versteeg. Little has been published on this expedition, because Lorentz intended to return, as indeed he did two years later. Reports on the progress made are to be found in *Bulletins* nos 53-58 of the Treub

Maatschappij.

In 1909 Lorentz launched a second expedition, again accompanied by Van Nouhuys. Other members of the team were Lieutenant Habbema and the physicians L.I.A.M. von Römer and R. Jaarman Soemintral Zeerban. This expedition was more successful. On November 8, 1909, Lorentz and Van Nouhuys reached the snow-clad peak of Mount Wilhelmina - a great triumph, for which they had to pay with serious hardships, a few casualties among the lower personnel, and an almost fatal fall of the leader.

The botanical and zoological collections of the two Lorentz Expeditions went to Holland for further study and, eventually, publication of the results in Nova Guinea (though it is possible that part of the botanical collections remained in Bogor). The physical anthropological data were examined (along with those collected in the course of a third expedition to Mount Wilhelmina) by A.J.P. van den Broek (cf. his contributions to vol. VII of Nova Guinea, mentioned in section IV.3.). The ethnographic collections of the three expeditions were later described by H.W. Fischer in the same volume of Nova Guinea (cf. below, VII.7.). This volume opens with an ethnographic description by Van Nouhuys (1913). For a report of the 1st and 2nd Lorentz Expeditions, see the Bulletins 59-64 of the Treub Maatschappij, and Lorentz's publication of 1913.

Before turning to the third expedition to the Snow Mountains, mention must be made of two British expeditions which tried to reach the glaciers of the Carstensz Mountains. They were organized by the British Ornithologists' Union and the Geographical Society. Leader of the first expedition was W. Goodfellow, while its members were the zoologists G.C. Shortridge and W. Stalker, the medical officer A.F.R. Wollaston, and the surveyors C.G. Rawling and Dr. E. Marshall. They tried to reach the Central Mountains by way of the Mimika River first, and the Kamura and the Newerip afterwards, but did not reach the Carstensz Mountains; the highest altitude reached was 5600 feet. The most striking discovery of the expedition was the existence of a tribe of Mountain Papuans who were smaller of stature still than the Pesechem encountered by the first, and in a more friendly way by the second Lorentz Expedition, namely the Tapiro Pygmies. Wollaston returned two years later, this time accompanied by the director of the Museum at Kuala Lumpur, Mr. C. Boden Kloss. This time they travelled the Otakwa River to reach the mountains, which proved a more fortunate choice. On January 30, 1913, they arrived at the lower part of the Carstensz glaciers. A well-nigh perpendicular cliff prevented them from reaching the top. On these expeditions reports have been published by Rawling (1913) and Wollaston (1912, 1914, 1916).

In the meantime the Treub Maatschappij and the KNAG had agreed on a third Dutch expedition to the Snow Mountains. The leadership of this expedition was entrusted to the surveyor Capt. A. Franssen Herderschee, a former team leader in the Military Explorations. Ordinary members were the botanist Dr. A.A. Pulle, the geologist Dr. P.F. Hubrecht, and the physicians G.M. Versteeg and J.B. Sitanala. They arrived at Flamingo Bay in September 1912, and proceeded to the interior via the Lorentz River. They reached the peak of Mount Wilhelmina in February 1913. The expedition was a success, also from a scientific point of view. For reports on the expedition see Bulletins nos 65-68 of the Treub Maatschappij. The physical anthropological results have been published in Nova Guinea VII (by A.J.P. van den Broek and H.J.T.

Bijlmer). On the culture and language of the Pesechem see the report by Lt. L.A. Snell (commander of the military guard detachment) in Bulletin Treub Maatschappij 68, pp. 56-86. A comprehensive account of the expedition has been given by Pulle (1915).

After the outbreak of World War I there were no new expeditions to the territory. The military exploration terminated with the completion of the mapping of the Lakes Plain in January 1915, leaving the better part of the central mountains unexplored. In the years which followed, only a citizen of a non-belligerent country, Switzerland, visited the territory, namely Paul Wirz. He stayed here from 1916 to 1919, and returned for a new visit in 1921-22. He did better anthropological work than any of the self-styled anthropologists who formed part of the various expeditions before and after the war. His Marind-anim monograph, published by the Hamburg Museum, and his contributions to the ethnography of Sentani and of the Dani of the Swart Valley, published in Nova Guinea XVI (together with his monograph on the Gogodara in Papua), bear witness of his untiring energy.

Immediately after the war a new expedition was organized, this time by the Indisch Comité in Batavia, the counterpart in Indonesia of the Treub Maatschappij in The Netherlands. The former was a body of high officials which could count on the official cooperation of The Netherlands Indies' Government, and on this occasion also on that of the Koninklijk Aardrijkskundig Genootschap in The Netherlands. The expedition was ordered to the Lakes Plain to find a route to Mount Wilhelmina across the central mountains. It was manned by 'local' personnel: the botanist of 's Lands Plantentuin, Dr. H.J. Lam, the zoologist of the Institute of Plant Pathology, Jhr. W.C. van Heurn, both from Bogor, the geologist Dr. P.F. Hubrecht, and the medical officers H.J.T. Bijlmer and H. de Rook, all of them government officials. Leader of the expedition was the army capt. A.J.A. van Overeem; in charge of astronomical and meteorological observations and the river survey was naval commander J.H.G. Kremer. The trip up the Mamberamo River took more time than had been foreseen. The party reached the Swart Valley, but then had to return to the coast to ask permission to go on, which permission was granted. Three members, Kremer, Hubrecht, and De Rook returned. They were joined by a fourth man, Dr. P. Wirz. The latter fell ill in the Swart Valley, where he, nevertheless, did some good ethnographical work. Kremer and Hubrecht went on and succeeded in climbing Mount Wilhelmina, where Hubrecht, who had been there before, discovered that the ice cap had become significantly smaller since 1913. On their way they discovered the upper Balim River and the Wamena, but missed the Grand Valley of the Balim. The Van Overeem Expedition (1920-21) has been reported on by Lam (1945) and Bijlmer (1922). On the continuation of the Kremer/Hubrecht Expedition see Hubrecht (1922), Kremer (1922) and Wirz (1924, 1925). The success of the expedition is indicative of the scientific potential which had developed in the then Netherlands East Indies in the course of the 20th century.

The next expedition was an American one, sponsored by the Smithsonian Institute and Berkeley University, and named after its leader, prof. Mathew Stirling. Again the Indisch Comité participated. It secured the cooperation of the Government and the participation in the expedition of Dr. W. Docters van Leeuwen, director of 's Lands Plantentuin', and C.C.F.M. le Roux, curator of the Museum of the Bataviaasch Ge-

nootschap. The expedition, the first to have a hydroplane at its disposal, worked its way to the western part of the Nassau Mountains from the Rouffaer River (1926). The results of the expedition were not impressive, though they filled some of the many gaps in the existing geographical knowledge. Information on this expedition can be found in TAG 43(1926):271, 441, 625, 747, 851; 44(1927): 260, 314, and in Stirling (1943).

After 1926 expeditions became more sporadic. This does not mean that all research came to a stop, but simply that exploration became more and more individualized. In point of fact, geological research practically always had been. In 1915 the first search for oil in the subsoil along the north coast had been made by Dr. W. van Horst Pellekaan on the orders of the Bataafsche Petroleum Maatschappij. From 1917 to 1922 De Dienst van het Mijnwezen had several explorers in the field, among whom the best remembered is Dr. J. Zwierzicky (cf. Schumacher 1954: 77). Foreign scholars also visited the territory, such as, in 1928, the zoologist Dr. Ernst Meyr of the Berlin Zoological Museum, and in 1933-34 the anthropologist Dr. Hans Nevermann of the Berlin Museum of Ethnography. The first time we come across the term expedition again is in 1935. In essence, this was a one-man expedition, namely Bijlmer's anthropological expedition to the Tapiro Pygmies in the hinterland of the Mimika. It resulted in publications (Bijlmer 1938 and 1939).

In the meantime the NNGPM (or Netherlands New Guinea Petroleum Company) had been founded. It started its explorations in 1935, a year which marked the beginning of a period of renewed intensive exploration, not only by the oil company, but also by civil servants, medical officers, and the missions in the area. Besides, in 1937 and 1938 the N.V. Mijnbouw Maatschappij Ned. Nieuw-Guinea investigated the presumed presence of gold in the mountains feeding the rivers from the upper Lorentz River to the headwaters of the Digul. These explorations have been reported on by Gouwentak (1939).

An important event was the discovery of Lake Paniai by the NNGPM aviator Ir. F.J. Wissel (December 1936). It stimulated intensive activity on the part of the civil administration (cf. subsection VIII.8.1.). The number of expeditions also increased.

The first to be mentioned here was the Carstensz Expedition led by Dr. A.H. Colijn, NNGPM field director at its then main station at Babo, and by the NNGPM geologist Dr. J.J. Dozy. They reached the summit of the Ngga Pulu, (one of) the highest peaks of this mountain chain, on December 3, 1936. Publications arising from this are Colijn (1937) and Dozy (1938, 1939).

Another important expedition was the Archbold Expedition of 1938-39. Its leader was Mr. Richard Archbold of the American Museum of Natural History, the man who financed the better part of the expedition. It owed much of its success to the expedient use of water-borne aircraft. Members of the expedition were the ornithologist Dr. A.L. Rand, the botanist L.J. Brass, and the zoologist W.B. Richardson. The Netherlands Indies Government provided military protection, as well as surveying the area for an overland return route in case of an emergency, and offering the assistance of the entomologist L.J. Toxopeus and the forester E. Meyer-Drees. The area chosen for exploration was the mountain region north of Mount Wilhelmina. The starting-point was Lake Habbema, on the northern slope of this mountain, discovered in 1921 by Kremer and Hubrecht. Already at an early stage of the aerial

surveying the expedition discovered the Grand Valley of the Balim. For a description of the expedition's work and adventures see Schumacher 1954 (Klein's Nieuw Guinea III:88ff). Other sources are Archbold (1941), Archbold, Rand and Brass (1942), Brass (1941), Van Arcken (1958).

The last expedition to take place before the war was the 1939 expedition to the Wissel Lakes (Paniai) organized by the KNAG and the Treub Maatschappij. Leader of this expedition was C.C.F.M. le Roux, while its members were the botanist Dr. P.J. Eyma, the geologist Dr. R. IJzerman, the zoologist Dr. H. Boschma, and the physician D. Brouwer as physical anthropologist. On this expedition see, among others, R.R. van Ravenswaay Claasen (Nienhuis no. 249) and the preliminary reports in TAG 56 and 57, most of them by Le Roux, and one by Brouwer. See also Le Roux (1948-51).

The Archbold and the Wissel Lakes Expeditions coincided with the rapidly increasing activities of the local administration, which enthusiastically organized one exploratory patrol after another, such as Van Eechoud's patrol from Uta on the south coast to Paniai, and from there northwards to the Nabire coast via the Siriwo Valley (cf. subsection VIII.8.1., and above Schumacher 1954). These were continued until the beginning of the Pacific war. Two experienced jungle specialists managed to escape capture by the Japanese, the one the police superintendent at Manokwari, J.P.K. van Eechoud, who had shown before that he knew how to combine his surveying patrols in the northern mountains (and the Wissel Lakes area) with ethnographic studies. The other was the young controleur at the Wissel Lakes, Dr. J.V. de Bruyn, who during the war earned himself the name of Jungle Pimpernel. They later described some of their experiences (Van Eechoud 1953, De Bruyn 1978). The reports on these patrols, combined with the aerial survey photographs and military maps made during General MacArthur's campaign against the Japanese, have contributed substantially to our geographic knowledge. On this point see Ormeling (1952), Verstappen (1952), Kint, Scherpbier and Van Asbeck (1954) and Von Frijtag Drabbe (1955).

Towards the end of the Dutch colonial period the KNAG and the Treub Maatschappij organized an expedition to the still unknown eastern part of the Central Mountains, the Star Mountains Expedition of 1959. Its scientific leader was the zoologist Dr. L.D. Brongersma, its technical leader air force colonel G.F. Venema. The geologists taking part were Dr. Ch.B. Bär, Ir. H.J. Cortel, engineer A.E. Escher, and the agro-geologist Dr. J.J. Reynders; the other members were the zoologist Dr. W. Vervoort, the botanists Dr. C. Kalkman and Mr. B.O. van Zanten, the anthropobiologists Dr. A.G. de Wilde and Dr. L.E. Nijenhuis, the linguist Dr. J.C. Anceaux, and the cultural anthropologist Dr. J. Pouwer. On the experiences of the expedition, see Schoorl (1956) and Brongersma and Venema (1960). The results of the expedition have most of them been published in successive issues of Nova Guinea new series X.

Almost simultaneously with the Star Mountains Expedition a French team, headed by Gaisseau and Saulnier, made a filming expedition crossing Irian from the Asmat to the Idenburg River. It resulted in the magnificent film entitled "Le Ciel et la Boue". See the beautifully illustrated description of the journey in Saulnier (1962).

Finally, a note is in place about the fact that no mention has been

made here of the numerous one-man expeditions which visited Irian in the years after the war until 1962, such as the Botanische Expeditie 1954-55 by P. van Royen (see Bulletin no. 103 of the Treub Maatschappij in TAG 73(1956):329-47). In point of fact, a considerable amount of research was carried out in this period, in part by the staff members of the various research institutions inside the territory itself or by staff members of the various branches of the administration, and in part by researchers sponsored by the Netherlands Foundation for the Advancement of Research in New Guinea (WONG), as well as by foreign research workers such as the Swedish ornithologist Sten Bergman, and the anthropologists John Erik Elmberg (Sweden) and Leopold Pospisil (USA). The research work conducted by the various Missions in the territory must be left out of consideration here, just like that sponsored by the South Pacific Commission and the European Common Market. This kind of researches cannot be classed under the heading 'Discovery'. Yet, discoveries are still possible (Wight 1974).

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VI.3. Political History

The official sources for the political history of the territory are, in chronological order, the texts of the treaties concluded between the principedom of Tidore and the VOC, and later the Netherlands Indies Government; those between the Kingdom of The Netherlands and the Indonesian Republic; and those between these two governments and other foreign powers. In the second place there are the laws, ordinances and other legislation relative to the territory. During the colonial period (from 1815 to 1962) the texts of these legislative products as well as those of the treaties referred to above, were published in *Staatsblad van Nederlands-Indië*, *Bijblad op het Staatsblad*, the *Javasche Courant* and, in its final phase, the *Gouvernementsblad* and *Officieel Nieuwsblad van Nederlands Nieuw-Guinea*. For the Indonesian period (1962-today) the reader is referred to *Berita Negara Republik Indonesia* and *Lembaran Negara Republik Indonesia*.

Finally, there are the official explanatory memoranda relating to these pieces of legislation and the minutes of the meetings of the representative councils at which they were debated, the *Handelingen of the Staten Generaal*, the *Volksraad*, the *Nieuw-Guinea Raad* and the Indonesian *Dewan Perwakilan Rakyat Daerah*. As a special category among these official memoranda mention should be made of the *Koloniale Verslagen* presented to the Dutch States General, and of the Annual Report on *Netherlands New Guinea* presented by the Netherlands Government to the Secretary-General of the United Nations pursuant to art. 73(e) of the Charter for the years 1949 to 1961.

For the student of history less official sources tend to be more easily accessible and often more informative. The more important of these have been listed below.

In the absence of overall histories of the Indonesian period, the reader is referred for literature on this period to subsection VI.3.2. and chapter IX.

VI.3.1. The Colonial Period until 1942

The early political history has been described at length by Haga (1884). Additional material dealing with the relations between Tidore and the people of Irian has been published by Kamma (1947-49). More recent papers on the subject are Katoppo (1957, Bachtiar (1963a), and

Kapisa (1977).

Haga's voluminous work was the result of an official assignment to write a book on the legal claims of the Dutch to Irian. The assignment can be considered as a symptom of the uneasiness caused by the current attempts by various Western nations to acquire new colonies, attempts which led to the Berlin Congo conference of 1884-85 - the most imperialistic conference of all times, but also the first conference in history to oblige the colonial powers to develop the colonies under their rule. The Netherlands were not a party to this conference, but the principle of development adopted here found a ready response in the ideas which eventually resulted in the 'ethische politiek'. A first sign of this response was the growing awareness that it is the duty of a colonial government to establish law and order throughout its territory, an awareness which became apparent in the last decade of the century and which found its ultimate realization during the Van Heutz period (1904-09). New Guinea was the last part of the then Netherlands East Indies to benefit by the recognition of this duty of development. It was not until 1897 that the colonial authorities decided to establish two administrative centres here (Manokwari and Fakfak), which decision was carried into effect in 1898. It is fairly certain that the complaints of the Protestant Mission in the Geelvink Bay area provided as effective an argument as the moral sense that something ought to be done in these parts. A parallel case is that of the complaints of the British Government about the headhunting raids of the Marind-anim (then called Tugeri) into the Western Division of Papua. They prompted an unsuccessful attempt to establish a police post at Sarire in 1897, after which it took the Government five more years to try more effectively to deal with the renewed complaints of the British by establishing a well equipped government station at Merauke.

The Netherlands Indies Government was reluctant to do anything about New Guinea, and the slowly but steadily growing public interest in the territory had not yet reached the point where it acquired political dimensions. A conflict with Spain over the Mapia atoll (1897) failed to arouse political interest and was soon forgotten. Negotiations about the eastern borderline of the territory with Germany and later Australia were allowed to drag on until 1934, in spite of the fact that here was a real problem. Originally, the Dutch had claimed the 141°E meridian as the borderline from the south coast northward to Cape Bonplan on the north coast. But Cape Bonplan is located on 140°47' East, and as the Germans - in a treaty with the United Kingdom - had accepted the 141°E meridian as their western borderline, there existed a narrow strip of no-man's-land between Dutch and German (later Australian) New Guinea. Attempts to find a natural borderline came to nought, and in the end the parties agreed on the 141° meridian as their common border. Of course, problems remained even so. In the interior no boundary marks were placed, and more than once local administrators and missionaries unwittingly committed trespasses which, but for the wisdom of the respective governments, might have led to conflicts.

On the Mapia affair articles have been written by Heeres (1900) and Wichmann (1900).

On the earlier history of the eastern borderline it is best to consult the very detailed 'Inhoud' in Haga (1884, vol. 2), the Index of Wichmann (1909-12, v. Grenzregelungen, see previous section), pp. 164ff of Militaire exploratie (1920, see previous section), Lulofs (1915), and

Luyms, Sachse and Dalhuisen (1911). The latter has never been published, but an extract (which contains no information of any political relevance) appeared in 1912. On later developments Luyms (1934), Bachtiar (1963b) and Van der Veur (1966) may be consulted.

Although the colonial government stimulated research in the territory and actively participated in its exploration, first by holding a general military survey, later by conducting the geological research commissioned to the Government Mining Service, it was not prepared to invest much money in the energetic extension of its administrative control. Funds were scarce and the money for development had to come from, primarily, private enterprise. It was felt that, whereas expenditures made on research and exploration were justified, those necessary for an extension of the administration had to be kept as low as possible as long as no one could tell whether and, if so, where, the economic development of the territory would yield sufficient profits to make a more advanced type of administration a paying proposition. The Government joyfully welcomed the report of the Governor-General's ADC, Captain H. Colijn, who recommended the stimulation of the exploration of the country but at the same time the deceleration of the extension and further improvement of its administration, among other things by keeping alive the severely contested fiction of Tidorese indirect rule on the island, excepting South New-Guinea. Information on this subject can be found in Colijn (1907; see previous section).

Nevertheless one cannot explore a territory without stimulating a desire for better administration. The missions, which rapidly extended the fields of their respective activities, pleaded for stronger administrative control in the neighbourhood of their often isolated outposts. Consequently, the number of government stations and police posts slowly but surely increased. In 1921 Irian even became a separate residency with Manokwari as its capital. Two years later, however, the measure had to be undone, among other reasons because of the problems of communication between north and south. Shipping routes ran almost by necessity, via Ambon, the capital of the Moluccas, which provided a strong argument for including New Guinea once again under the administration of the Government (shortly afterwards Residency) of the Moluccas.

In the course of the twenties a new pressure group, pleading for the development of the territory, emerged. The Indo-European Dutch of Java, frustrated by the legal impossibility of acquiring ownership of arable land, saw an opportunity of having their wishes realized in sparsely populated New Guinea. In 1926 they founded the Vereeniging Kolonisatie Nieuw-Guinea. In 1929 this was followed by a second organization, the Stichting Immigratie en Kolonisatie Nieuw-Guinea. The former founded a colony near Manokwari, the latter in Sentani.

A more powerful pressure group demanding greater government activity in New Guinea manifested itself a few years later in The Netherlands. In 1932 (?) its members founded the Nieuw-Guinea Comité, and in 1934 the Nieuw-Guinea Studiekring of the Molukken Instituut, two mutually cooperating bodies which recruited their members from among former senior officials of the Netherlands Indies' administration, scientists, and leading representatives of large colonial or multi-national enterprises. They did not reject the idea of colonization as propagated by the Eurasians of Indonesia, but had higher expectations of the entrepreneurial activities of financially strong companies. To make more reliable scientific knowledge available, the Studiekring founded the

Tijdschrift Nieuw-Guinea, and sponsored the two, each at the time up-to-date editions of Klein's Nieuw-Guinea, the first of 1935-38, the second of 1953-55 - meritorious works which served the purpose for which they were written.

The activities of the Nieuw Guinea Comité and the Studiekring coincided with the activities in the field of big enterprise. In 1935 the NNGPM started its explorations for oil in western New Guinea, followed in 1937 by the Mijnbouw Maatschappij Nieuw-Guinea which searched the area for gold. In 1938 fifteen concerns with vested interests in the Netherlands Indies formed a consortium, the Negumij, to investigate the possibilities of estate farming in the area. Even the Government followed suit by setting up a government rubber estate in Ransiki.

The motives behind all these activities by big business and individuals alike are a matter of controversy. Their interest in the territory was mixed with the serious suspicion that inactivity on the part of big business and Government might lead to a situation in which the penetration of the Japanese into the area might no longer be checked. The latter had already founded a small cotton estate in the Geelvink Bay area, and were pressing for permission to enlarge it. These suspicions were not unfounded.

The history of the development of the administration and economy of Irian between 1898 and the outbreak of the Pacific War has never been adequately described. The successive attempts at this have resulted in accounts that are either too succinct or of too generalizing a nature. This is not only true of Galis' article 'Geschiedenis' in Klein's Nieuw-Guinea I (1953), but also of Beversluis and Gieben (1929), Koppenol (1934), Hovenkamp (1937), Van der Veer (1937), and Van Eeouchoud (1951). The main sources for the history of the development of the administration and the economy of the territory are the numerous Memories van Overgave written by the departing Assistant Residents, Controleurs and Gezaghebbers of the various parts of Irian, most of which have been listed in Nienhuis' Inventaris. For the administrative development of the territory as a whole, the Memories van Overgave of Governor L. van Sandick (1926) and Resident Dr. B.J. Haga (1938) as chief administrators of the Moluccas (Nienhuis no. 843), and of W.A. Hovenkamp as Resident of Ternate (1931) are often quoted sources of information. Other direct sources are the Koloniale Verslagen, annually submitted to the States General, and the Regerings Almanak van Nederlandsch-Indië. For a brief overview see below, section VIII.1.

The history of the colonization projects, primarily that of the Indo-European Dutch, has been better described. A representative account of this history and an enumeration of its relevant sources is found in Winsemius (1936) and Van Gogh (1954). Important sources on this subject are the Memories van Overgave of Manokwari and Hollandia since 1926 (below: sections VIII.4 and VIII.2). Information on the Javanese colonists in Merauke can be found in the Memories van Overgave by J. van Baal (1938, Nienhuis no. 310) and W. Klaus (1940, Nienhuis nos 311 and 327). The colonists returned to Java in 1946. It is possible that the Memorie van Overgave of C.W. Wolff (1948, Nienhuis no. 329) contains some comments on their departure.

With the transfer of sovereignty by the Dutch to the Indonesians (end 1949), the colonization attempts received a new impetus. In 1950 many Indo-European Dutch migrated to New Guinea, but relatively few of them were willing or able to make a living in agriculture, in spite of

the activities undertaken by their association, the Nieuw-Guinea Verbond. In The Netherlands the colonization ideal was kept alive for some time by the Nationale Vereniging Nederlandse Volksplanting in its insignificant magazine *Neving-Nieuws*, and by the Nieuw-Guinea Verbond Nederland in its only slightly more worthwhile serial *De Nieuwe Guineër*. The results of all these efforts were poor, and the organizations gradually faded out of existence.

A special chapter in the pre-war history of the territory is that of Tanah Merah (Boven Digul) as a place of banishment. The most complete (and objective) source on this is Salim (1973); an earlier publication is Schoonheydt (1940). For interesting archival material see Nienhuis under nos 394-399. In addition to a long resumé written in 1930 by Tideman, Governor of the Moluccas, it draws attention to the military memoranda of successive camp commanders, viz. Becking, Van Doorn and Schollen, and to the Memories van Overgave of the commanders Wiarda and Houbolt (1938 and 1940), who combined their military function with that as civil administrator of a subdivision.

VI.3.2. The Indonesian - Dutch Conflict and its Aftermath

The dispute about Irian had its origins in the Den Pasar Conference (December 1946), where the Indonesian representatives of the State of East Indonesia in embryo claimed the residency of New Guinea for incorporation into their territory. It was resolved to postpone a decision on this point (Conferentie Den Pasar 1947). In preparation of the expected negotiations, the Lt.-Governor-General appointed a fact-finding commission (Gouvernements Besluit 15 maart 1947), which reported in *Verdrag Studiecommissie* (1949), that the factual interests of the State of East Indonesia were negligible, and advised the drafting of a long-term development plan for the area.

The issue became an important problem at the Round Table Conference. No settlement could be reached, and the two parties agreed that for the time being the status quo of the residency of Nieuw-Guinea should be preserved, with the proviso that within a year the political status of the territory should be determined through renewed negotiations. In early 1950 Indonesia and The Netherlands agreed to appoint a joint fact-finding committee to pave the way for more fruitful discussions - the Nieuw-Guinea/Irian Commission. It numbered three Dutch and three Indonesian representatives. After many meetings and a journey through Irian, the commission reported (in December 1950) that it had not yet reached an agreement that was satisfactory to both parties. New negotiations followed shortly afterwards, but came to nought. The main sources concerning these negotiations are *Ronde Tafel Conferentie* (1949), and *Rapport Commissie Nieuw Guinea/Irian* (1950). The Report of the Commission New Guinea/Irian is the document on this issue which is most frequently cited, and also the one which is most easily accessible. There is a large quantity of other official documents besides, such as United Nations Documents, and the *Handelingen der Staten Generaal* relative to the New-Guinea issue between 1949 and 1962. Many of the UNO documents can only be consulted in special libraries, where convenient indexes and catalogues are available to guide the student on his way through this labyrinth of papers. With reference to the UNO's mediating role *Nederlands Nieuw Guinea in de 9e, 10e, 11e, 12e en 16e Algemene Vergadering van de Verenigde Naties* and *Nederlands Nieuw Guinea en de Verenigde Naties, januari-oktober 1962* are worth men-

tioning.

The rapidly deteriorating relations between The Netherlands and Indonesia, to the extent that they were the outcome of the conflict over New Guinea, provoked an internal political debate in The Netherlands which grew in intensity over the years. Secondary arguments about holding on to New Guinea as an area of settlement for Indo-Europeans and preserving the status of a colonial power gradually lost their power of conviction. The principal issue was the obligation imposed by the United Nations Manifesto to prepare the Papuan people for autonomy and independence through education, the term 'peoples' used in the Manifesto being interpreted in the sense of ethnic entities. *Toekomstige ontwikkeling* (1953), *Western New Guinea and the Netherlands* (1954) and *Papoea's bouwen aan hun toekomst/Papuans building their future* (1961) may be regarded as illustrations of this.

Initially supported by Australia (cf. Casey 1954), The Netherlands were obliged under strong United States influence, as a result of increasing, also military, pressure by Indonesia and the absence of international support, to agree to the transfer of New Guinea to Indonesia in 1962, after a short transitional phase of UNO administration. The treaty of cession stipulated that the Papuans were to be given the opportunity to state their preferences as to the political system for their country in a referendum in 1969.

The New Guinea debate in The Netherlands gave rise to a spate of publications by politicians, political parties, religious and social organizations and concerned scholars. Of the independent publications appearing at the time, the majority in the form of brochures, the following should be mentioned, in chronological order: Klein (1949), Lam (1950), Van Eechoud (1951), *De Kadet* (1951), *Papoea's roepen Nederland* (1951), *Beslissing nu* (1952), *Jouwe* (1952), *Snijsheuvel* (1952), *Geschilpunt* (1955), *Van Asbeck* (1956), *Kerk en Nieuw-Guinea* (1956), *Oproep Generale Synode* (1956), *Nieuw-Guinea als probleem* (1956), *Van 't Veer* (1956), *Hanekroot* (1958), *Röling* (1958), *Terdege ter discussie* (1958), *Vraagstuk Nieuw-Guinea* (1958), *Van Baal* (1959a and 1959b), *Verhoeven* (1959), *Huidige stand* (1960), *Van 't Veer* (1960), *Kwestie Nieuw-Guinea* (1961), *Van Raalte* (1961), *Berghuis* (1962), *Goossens* (1962), and *Geen Oorlog* (1962).

Duynstee (1961) is to be regarded as a survey of various national and international aspects of the problem, culminating in an unambiguous political choice. A detailed study of the political scene in The Netherlands in connection with the conflict is that by Lijphart (1966). A similar study was made by Lafeber (1968) and Coerts (1983) for a Roman Catholic daily and on a Protestant political party respectively. Certain national and international aspects are furthermore discussed in *Van der Plas* (1971:79-117), *Van Esterik* (1982), *Gase* (1984) and *Jansen van Galen* (1984). The international aspects are emphasized, finally, in *Bone* (1958), *Van der Kroef* (1958, 1963), *Van der Veur* (1963, 1964a, 1964b), *Henderson* (1973), *Brown* (1976), *Vandenbosch* (1976), *De Beus* (1977), *Van Baal* (1980), *McMullen* (1981), *Mitton* (1983) and *De Geus* (1984).

The Indonesian perspective has been illuminated in the publications of *Latumahina* (1949), *West Irian and the World* (1954), *Katoppo* (1955), *Yamin* (1956), *Some facts about West Irian* (1957), *Some questions and answers* (1957), *Question of West Irian* (n.d.), *Nazaruddin Lubis* (1962), *Baharuddin Lopa* (1963) and *Koentjaraningrat and Harsja Bach-*

tiar (1963), while the fortnightly newspaper *Suara Irian* has been appearing since 1949. The Indonesian viewpoint is further described in Agung (1973).

The military operations in the course of the conflict are discussed in De Roos (1979). Nuis (1967) gives an impression of the circumstances under which the Dutch soldiers served. The UNO interim administration is dealt with in United Nations in West New Guinea (1963) and Van der Veur (1964a).

After a few Indonesian publications shortly following the introduction of Indonesian government (*Buatlah Irian Barat* (1964), and *Musjawarah ke-1* (1964)), it was not till 1969, in which year the agreed Act of Free Choice was to take place, that the political developments in New Guinea received renewed attention, one or two exceptions aside (Jaspan 1965, Hastings 1968). Indonesian publications on the subject were: *Capita Selecta* (1969), *Irian Barat, Keluarga Kesatuan* (1969), *Implementation* (1969), and *Easternmost Province* (1973). Other authors publishing on the subject were Rowley (1969), Van der Kroef (1970b, 1971:125-55) and, more generally, Hastings (1969:208-53 [1973:196-239]).

Refugee Papuans and their sympathisers in The Netherlands have levelled some sharp criticism at the Indonesian government, which they accused of violating human rights and making a farce of the Act of Free Choice (Kamsteeg (1969), Sawor (1969), Szudek (1969), Vos (1969), *Toekomst van de Papoea's* (1969), and *Zelfbeschikking*, (the journal of the *Door de Eeuwen Trouw* Foundation).

After 1969 a number of general works, containing critical, documented descriptions of Indonesia's policy with respect to New Guinea and its autochthonous inhabitants, appeared: Van der Kroef (1970a, 1975), Sharp (1977), Utrecht (1978), De Bruyn (1978), Lagerberg (1979), and *Obliteration of a People* (1983).

Irianese Papuans have been carrying on a guerilla war against the Indonesian administration under the banner of the *Organisasi Papua Merdeka* (OPM), or *Free Papua Movement*, for many years now. The strength of this movement, torn by internal dissensions as it is, is difficult to gauge. Such an assessment is attempted in the above-mentioned publications. Further worthy of mention in this connection are Van der Kroef (1976, 1977), Savage and Martin (1977), Savage (1978), and Premdas and Nyamekye (1979). Indonesian publications about the OPM are *Fakta dan Data* (1976) and *OPM* (1976).

The politically divided Papuan community in The Netherlands has recorded its political viewpoint in a number of pamphlets against the Indonesian regime and for Papuan independence, viz.: *Manusaway* (1976), *Zwartboek* (1977), *Streven naar zelfbeschikking* (1977), *Kurni* (1979), *Genocide, Ethnocide* (1980), *Hindom* (n.d.), *Onrecht al tien jaar lang* (1980) and *Hook* (1980).

In addition a number of stencilled periodicals have appeared, the majority irregularly and for a period of only short duration. Of these we would mention *Benapa*, *Fadjar Melanesia*, *Freedom Voice*, *Kobe Oser*, *Suara Papua*, and *West-Papoea Bulletin*. Still appearing at present are *West Papua Observer* (from 1975) and *West Papua Courier* (from 1978), which have both had a relatively long life.

Since recently there has been an increasing interest in the political situation in New Guinea, especially in The Netherlands. Many articles on the subject regularly appear in such journals as the earlier mentioned *Zelfbeschikking* (see also the publication in the same vein by

Ritzema Bos 1979), *Indonesia Feiten en Meningen*, and *Tapol*. The reports of such organizations as *Justitia et Pax* (Irian Jaya 1982), *Vasstenaktie-Nederland* (Anderzijds 1981-82) and the Research Institute of Oppressed Peoples, Amsterdam (*Drama van de Papoea's*, 1984) likewise testify to this trend. The criticism expressed in these publications is directed in particular to the officially stimulated immigration of people from other Indonesian islands, which is posing a threat to the culture and livelihood of the Papuans, as well as to violations of human rights.

VI.3.3. The Colonial Period 1942-1962

Not long after the outbreak of the Pacific War the Japanese conquered the greater part of Irian. The Merauke and Upper Digul areas remained firmly in allied hands, however. A review of events and developments during the war period is to be found in Van den Hoogenband (1954), Lawless (1953) and Riegelman (1955). For details of anti-Japanese resistance in the north, the west, and the Paniai district, see Rapmund (1946-47, 1946-48), Rhys (1947), Kokkelink (1956), Van Eechoud (1951), De Bruyn (1978) and De Kock (1981).

The history of the administration during and after the war, up to 1951, has been summarily described by Visman (1945) and Boldingh (1954). More extensive information on the Post-war restoration of the colonial administration in Irian may be derived from Van Eechoud (1947, 1948). Van Eechoud had been 'Conica' and later Resident of New Guinea since the landing of the allied forces near Hollandia in April 1944. He held this function till New Guinea became a separate administrative district (a residency). Van Eechoud's appointment as resident (1947) did not involve the restoration to the Tidorese of their (for many years purely nominal) power over the greater part of Irian. The formal separation was not legalized until July 1949. On December 29 of that year New Guinea became a separate colony, coming directly under the Dutch Crown (when it was styled Netherlands New Guinea), and with a governor as its representative. This situation continued until the territory passed to Indonesia through the agency of the United Nations in 1962.

An overall picture of events and developments during the period when New Guinea was a separate colony is given in: Lagerberg (1962) and Bakker (1965). Sources of information on this period are the *Gouvernementsblad van Nederlands Nieuw-Guinea* and the *Officieel Nieuwsblad van Nederlands Nieuw-Guinea*, both published in Hollandia between 1950 and 1962, the periodicals *Schakels* (1952-62) and *Nieuw-Guinea Studiën* (1957-62, for information on the political debate on New Guinea in The Netherlands see under *Parlementaria*), the so-called *Begrotingen*, annual budgets including explanatory memoranda which have been published in *Handelingen der Staten-Generaal* (1950-1962), the Annual reports on Netherlands New Guinea (1949-1961) which were presented by the Netherlands Government to the United Nations, and the *Rapporten van de Raad voor Volksopvoeding* (from 1951). Further publications on the colonial period are *Wie is dat* (1953-62), *Gewestelijke reglementen* (n.d.), W.A. Engelbrecht and E.M.L. Engelbrecht (1954), *Werkplan 1954-1956* (1954), and *Ontwikkelingsplan* (1961). With regard to matters of native policy mention should be made of the following circulars issued by the then governor of Netherlands New Guinea Van Baal (1954, 1955, 1957).

A fair amount of unpublished information lies buried in Dutch archives, notably the Algemeen Rijksarchief at The Hague. For a retro-

spective review of the regular disputes between The Hague and Hollandia concerning matters of native policy (more in particular with regard to the powers to be conferred on local councils and on the Nieuw-Guinea Raad), see Van Baal (1980).

Other sources of information on native policy, apart from those already mentioned, are the various Memories van Overgave, the papers and extracts published in *Adatrechtbundel* 45(1955), and those mentioned in Nienhuis (1968). Matters of constitutional law are dealt with by Cowan (1954, 1957, 1958), Korn (1956, 1958), Logemann (1956, 1957a, 1957b, 1958, 1959, 1960), Steen (1958-59), Lemaire (1961) and Keuning (1961).

The other literature on the period is widely varied. Of interest are, inter alia, Kasberg (1956) and Galis and Van Doornik (1960). More impressionistic and travelogue types of accounts are, among others, Bergman (1952, 1956, 1961), Van Kampen (1956), Pouwer (1962), and Van den Berg (1982).

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VI.4. History of the Missions and their Contributions to Formal Education

The first Christian missionaries arrived in Irian in 1855, where they settled near Manokwari. For the rest of the 19th century little progress was made. This changed in the early years of the present century, when there occurred a rapid expansion. At the time it was the Utrechtsche Zendingsvereniging which sponsored the work, which later was taken over by the Zending der Nederlands Hervormde Kerk. Much later than the first Protestant mission, the Roman Catholic mission made its entrance. A first attempt to establish a mission post in the Kapaur area (c.1896) miscarried. In 1905 the Mission of the Sacred Heart set up its quarters at Merauke, and thereupon gradually extended its work to the Muyu, the Digul, and the Mimika areas. Other missions followed, namely the Zending Protestan Maluku (1929), the Franciscan Mission (from 1928 - initially unofficially - in the Fakfak area), and the Christian and Missionary Alliance, which settled in Paniai (1938). The situation at the outbreak of World War II is discussed by Brouwer and Geurtjens

(1942). After the war various other missions of different denominations also entered the area.

The missions were the first to pay proper attention to native education. Schools meeting certain minimum requirements were subsidized by the government. The specific problems presented by formal school education in these parts prompted a decision to introduce a special regulation for so-called 'beschavingsscholen', which decision implied official recognition of the contribution made by the missions to the process of civilizing the native population. The relevant regulations which were the result of the report drawn up by the regional inspector of education, Wiggers, upon his visit to the Merauke subdivision in 1937, have been recorded in *Bijblad op het Staatsblad van Nederlandsch Indië*, nos 14035 and 14081 (1938). The policy to entrust the missions with an important part of native education was continued during the post-war colonial period. From 1951 on the cooperation between the government and the missions in matters of education constituted an important item on the agendas of the successive meetings of the Raad voor Volksopvoeding (cf. the Reports of this Raad).

For a general survey of the Protestant missions up to the early fifties, see F.J.F. van Hasselt (1935) and Kamma (1953, 1976). Another work that is of general interest with respect to the policy of the Zending der Nederlands Hervormde Kerk is Van Randwijck (1981).

The volume of published literature on the Zending van de Nederlands Hervormde Kerk in Irian is extensive. Its history and problems are reflected in such works as J.L. van Hasselt (1888, 1910), F.J.F. van Hasselt (1914, 1929), Rauws (1916-17, 1919), De Santy (1947), Kamma (1955) and Bakker (1970). The latter work discusses the birth of the Gereja Kristen Injil Irian.

There is a wide variety of articles besides. Important journals are: *Berichten der Utrechtsche Zendingsvereniging (UZV)*; *Mededeelingen, Tijdschrift voor Zendingswetenschappen (MNZG)*; *De Opwekker*, and of a more popular nature *Nederlands Zendingblad*, also known as *Zendingblad der Nederlands Hervormde Kerk*. The CAMA (Christian and Missionary Alliance) is the publisher of the equally popular monthly, *De Pionier*, distributed by Parousia, Wassenaar (or Naarden). For information on other Protestant missions it is best to approach the relevant organizations themselves.

The information on the Roman Catholic Missions in Irian is more restricted. A survey is to be found in Geurtjens (1935) and Verschuieren (1953, 1957). More recent studies are Vriens (1967) and Van de Berg (1974). Of a more problem oriented nature are the works by Vertenten (1935), Verschuieren (1941, 1960), Boelaars (1964, 1967, 1969), and Samkakay (1972). Many more articles have appeared in periodicals such as *Katholieke Missiën*, *Annaïen van O.L. Vrouw van het Heilig Hart (Tilburg)* and *Sint Anthonius (Weert)*.

On the role of the missions in formal education see also Van Asperen (1936), Ten Haaft (1939), F.J.F. van Hasselt (1922), Kijne (1954), and Renwarin (1977). For further information see below, Ch. IX.2.

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VII

CULTURAL ANTHROPOLOGY

VII.1. General Reviews and Approaches

Our ethnographic knowledge of Irian suffers from many gaps and imperfections. Consequently, all general reviews and characterizations of Papuan culture and society are necessarily provisional, in keeping with the state of our knowledge at the time of writing. All authors agree that there is an urgent need for further research. Recommended general studies are those by Held (1951), Van Baal (1954), De Bruyn (1958-59), Pouwer (1961a, 1961b, 1961c, 1966a, 1966b, 1966c), Schoorl (1967), Koentjaraningrat (1970), and Bromley (1973).

VII.2. Some Special Characteristics of Irian Society and Culture

The suggestion put forward in Van Baal (1954) that Irian society may be characterized as loosely structured has been discussed in Van der Leeden (1960), Pouwer (1960a, 1960b), Dutoit (1962), and Koentjaraningrat (1977). The question of greater or lesser 'looseness' recurs in a more general, theoretical framework in Van der Leeden's essays of 1970 and 1971.

A wholly different approach to the problems of kinship organization in Irian is found in an M.A. thesis written for the Anthropology Department of the University of Amsterdam. In this paper, which unfortunately has never been published, some 40 tribal societies of Irian are compared (Pans, 1967). A more recent comparative study on kinship organization is Cook and O'Brien (1980). A recent reader on religion and kinship is Herrifield a.o. (1983). Comparative data on land tenure and the organization of local groups are presented in Ploeg (1970) and Legiyo (1981).

Surveys or comparative studies of traditional religions in Irian are lacking. Nevertheless, some preliminary steps have been made by Takenaka (1949) and Kamma (1975, 1978).

The specific subject of counting systems has been discussed by Galis (1960) and Briley (1977).

A curious document from the past, finally, is Van Hoevell (1880).

VII.3. Culture Change, Messianic Movements and Cargo Cults

The heading given to this section might suggest that Messianic movements and cargo cults always go hand in hand with culture change. But this must be emphatically denied. Even so, many of these religious movements are reactions to culture change. Besides, practically all of

them have been observed in a situation of more or less rapid culture change. As a result it is impossible to deal with culture change separately from the religious movements which reflect its influence. The presentation of the relevant literature is further complicated by the fact that developments similar to those reported from Irian have taken place in many areas in Melanesia and have provoked general discussions on culture change and religious movements in Melanesia as a whole. Many of the publications concerned form part of the vast body of literature on the subject generally. For practical reasons we must restrict ourselves to the literature on Irian specifically, and of this literature only to those works which have provided the basis for general discussions on the Irian case or which are devoted to this case. Works describing local religious movements have been relegated to the relevant subsections of Chapter VIII (Ethnography). In addition, concrete cases of culture change within the framework of cultural and economic development are dealt with in Chapter IX.

The reader interested in cargo cults specifically may best assure himself of the vast extent of the relevant material by consulting Zantkuijl's bibliography (1976).

Monographs containing information on culture change and cargo cults are Boelaars (1953), Kouwenhoven (1956), Schoorl (1957), Van Logchem (1963), Van Baal (1967), Kamma (1972a), Oosterwal (1973) and Van der Wilden (1981). Recommended periodical articles and contributions to larger volumes are those by Schneider (1928), Van Baal (1952, 1953, 1956, 1960, 1969), Held (1953-54), Kabel (1953), Kamma (1953, 1972b), Spreeuwenberg (1953), Van der Leeden (1961), Bachtiar (1963), Oosterwal (1963), O'Brien and Ploeg (1964), Marjen (1967), Boelaars (1968), Trenkenschuh (1974), Schoorl (1975), Kaipman (1978), and Godschalk (forthcoming).

Finally, several Academic Essays and mimeographed papers dealing with cargo cults must be mentioned, viz. Godschalk (1977), Agapa (1979), Hubatka (1981), Kapisa (1981), Mampioer (1981), Noriwari (1981), Romandei (1981) and Saf (1981).

VII.4. Material Culture and the Visual Arts

Up till the First World War most of the ethnographic work done in Irian was concerned with the material culture of the area. A general survey of publications on this subject has been given by Galis (1952). Unfortunately, this useful survey, covering a wide variety of subjects and tribes, is not easily accessible. It is not mentioned in Nienhuis.

One of the earliest publications on the material culture of Irian is that by De Clercq and Schmeltz (1893). Schmeltz was director of the State Ethnographic Museum at Leiden, and we are indebted to him for quite a number of well illustrated articles on the material culture of the coastal areas of Irian in *Internationales Archiv für Ethnographie* (abbreviated as IAE), namely in volumes 6 (1893), 8 and 9 (1895, 1896), 16 and 17 (1904, 1905). For brevity's sake these articles have not been specified in the bibliography at the end of the present section (subsection VII.7.). Another work of Schmeltz which has not been mentioned there is the (for those years) meritorious 'Gids voor de tentoonstelling van de voorwerpen afkomstig van de Noord Nieuw-Guinea Expeditie o.l.v. Prof. A. Wichmann' (Publicaties Rijks Ethnografisch Museum, 2e serie,

Leiden 1907). Other early publications on material culture are Serrurier (1888, 1898), Van der Sande (1906), and Fischer (1908, 1913-15, 1915).

During the period between 1920 and 1950 studies of general aspects of culture were superseded by ethnographical monographs. The description of a given people's material culture came to form part of the ethnographic study of that people's culture. Nevertheless, special studies on material culture continued to be written, though not in the old form. More attention was now paid to artistic and technical features than in the preceding period, a development which we find modestly reflected in Loeber (1919-20, 1929-30), Wirz (1921, 1922, 1923, 1930), Hornell (1923), Speiser and Wirz (1931), Braunholtz (1934, 1936), Tillema (1940), Münsterberger (1945) and Bühler (1946-49).

The main events after 1950 were the discovery of divergent art-styles in specific parts of Irian on the one hand, and of the impressive beauty of Asmat wood-carving on the other. A third development was the progress of our knowledge of the material culture of the Irian people from a purely technical point of view. Various art-styles have been described by Gerbrands (1950-51, 1979), Kooijman (1955, 1956, 1959a, 1959b, 1959c, 1961, 1962a, 1962b, 1966), Kooijman and Frese (1958), Kooijman et al. (1960), and Van Baaren (1968). Asmat wood-carving is dealt with by Renselaar (1956), Gerbrands (1966, 1967), Commentary Asmat (1971), Hoogerbrugge and Kooijman (1976), Hoogerbrugge (1977), and Konrad, Konrad and Schneebaum (1981). The above-mentioned developments are further reflected in Van Emst (1957), Galis (1963), Ucko (1969), Kamma and Kooijman (1973), Poana et al. (1978), Solheim and AP (1977), Solheim and Mansoben (1977), and Krenak (1982). The list presented here is by no means exhaustive. Additional information on material culture and visual arts may be obtained from Chapter VIII, in which the ethnographic literature has been listed area-wise. Besides, some of the big western museums, such as those of Basel, Berlin, New York (Museum of Primitive Art) and the already mentioned Peabody Museum, have guides to their collections, as well as catalogues of former exhibitions, some of which may probably still be obtainable on application. Here we can give only one example, viz. Koch (1969).

VII.5. Other Art Forms

Recommended publications on other art forms - besides the visual arts - are Kunst (1967), Cerita rakyat (1979-80), and Flassy et al. (1980). The first is a study on Papuan music of the Kaowerawedj of the Nassau Mountains(?), on Papua songs, and on music of the southwestern coast, the western part of the Bird's Head, and Waigeo. The second publication contains forty folktales from various parts of Irian Jaya, collected by a team from Cenderawasih University. It includes an account of the methods of collection, and also the texts of the first 20 folktales in the original languages. Flassy et al. present an overview, with commentary, of folk dances from various parts of Irian Jaya which were performed at folkdance festivals held in Jayapura, in 1975, 1977 and 1979.

The interested student in search of tapes and records should consult the Jaap Kunst Instituut of the University of Amsterdam, which has a modest collection of music from Irian.

VII.6. Urgent Research

The need for further anthropological research in Irian is a recurrent theme in all discussions on the cultural diversity of the area. The International Committee on Urgent Anthropological and Ethnological Research had devoted the greater part of its Bulletin no. 4 to this subject (Vienna, 1961). Here Van Baal, Van der Leeden, Van Logchem, and Pouwer have specified the most pressing needs. Although some of the gaps have been filled since, the reader of chapters V and VIII below will hardly fail to notice that most of them remain and call for swift action. Much, very much, remains to be done, and must be done quickly.

Before making an attempt to indicate the most important gaps, a remark should be made about two trends which jeopardize progress in the exploration of hitherto ignored or forgotten areas. One is the tendency to favour research in mountainous areas over that in low-lying regions because climatic conditions improve with increasing altitude. No one can deny this, but the result is that the lowlands are being neglected in spite of overwhelming evidence that the cultural variation of the lowland tribes exceeds that of the highland peoples by far. The other is the dogma borrowed from sociology which prescribes that a student who goes into the field to collect material for his doctoral thesis should organize his researches around a specific problem. As many a Ph.D. student supervisor finds himself at a loss to think up a hypothesis which may be tested in a fully unknown culture, the automatic result is that the prospective anthropologist does his research in a cultural environment on which basic information is already available. There is no doubt that this eventually contributes to a better knowledge of that specific culture. But as a consequence all the white patches on Irian's ethnographic map remain.

There are some white gaps which are really appalling. The largest, and by reason of accessibility and historical contacts most unaccountable such gap is that of the Fakfak Peninsula and the lowlands of the southern Bird's Head, opposite its north coast. The fact that we have a monograph on the Arguni Bay at our disposal accentuates the enormity of the gap rather than diminishing it. Other appalling gaps are the area to the east and south of Jayapura; the whole of Meervlakte (Lakes Plain) and the adjacent southern and northern foothills along both the Idenburg and Rouffaer Rivers; the Etna Bay region and its hinterland, including Yamur Lake; the Casuarine coast and its hinterland; the Auyu speaking tribes to the right of the Digul River; the Mapia valley of the western Paniai Division; the eastern and southeastern parts of the Paniai Division; and the peoples between the Yale and the Star Mountains in the Jayawijaya Division. If one were to go into detail one could specify many more areas, but the above suffices to show that there is a major task ahead.

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VIII

ETHNOGRAPHY. REGIONAL STUDIES

VIII.1. Introduction

In the presentation of the material this chapter mainly follows the order of the present-day administrative division of the territory into divisions (kabupaten) and subdivisions (KPS - daerah kepala pemerintah setempat). This is not done because the administrative division - which the Indonesian Government inherited from the colonial administration and since revised in points of detail - has any linguistic or ethnographic relevance - which it does not - but because it is expedient for quick geographical orientation and for the pin-pointing of official papers which are likely to give information that is relevant for the student of Irian's cultural diversity. These official papers are neither rare nor insignificant. They contain specified data on local demography, customary law, local political events, economic development and the problems of local administrators which the student of any specific culture needs for his general background information. The travel reports and Memories van Overgave of local administrators are useful documents. Many of them are relatively easily accessible because they have been filed in the former Rapportenarchief van het Kantoor voor Bevolkingszaken (KBZ). The inventory of this archive, drawn up by Nienhuis, is annexed to the present volume.

In order to derive full benefit from this source of information, the student should be able to find his way through the labyrinth of official geographic terms. This is not as simple as the new-comer to the study of Irian is liable to believe. Administrations do not always continue to use the geographical terms they have introduced in previous years. This they cannot do either. The continual growth of the administration is apt to lead to a parallel growth in the number of divisions and subdivisions and to concomitant changes of names and boundaries of earlier territorial units. In one particular case the result has been outright confusing. The term West New Guinea was initially bestowed upon what is now the Fakfak Division, later upon the Bird's Head and the Radja Ampat Islands which had previously formed part of the division of North New Guinea. There are other complications besides and to avoid confusion it will be necessary to devote the introduction to the present chapter to a short survey of Irian's administrative history.

In 1848 the Netherlands Indies Government recognized the status of the Dutch part of New Guinea as part of the territory of the principedom of Tidore, which recognition did not lead to any appreciable form of administrative control by Tidore. In 1897 the said Government decided to take the administrative control of the area in hand and, without recalling its former recognition of Tibore's nominal rights, created two 'divisions', namely those of the territory of North New Guinea (the later

(divisions of Jayapura, Cenderawasih, Manokwari and Sorong) and West and South New Guinea (now Fakfak and Irian Selatan). Two government bases were founded, Manokwari and Fakfak (1898), each under an Assistant-Resident, who was subordinate to the Resident of Ternate, under whose supervision the principedom of Tidore came.

Only a few years later South New Guinea was separated from Tidore and brought under so-called direct rule through the creation of a division of South New Guinea with Merauke as capital. The Assistant-Resident was made directly answerable to the Governor-General, a situation which prevailed until 1913. In that year South New Guinea became a division of the Residency of Ambon. In the meantime (in 1912) Fakfak (West New Guinea) had been separated from Ternate and had also been joined onto the Residency of Ambon, a change which in this case did not involve any further formal curtailment of the (purely nominal) supremacy of the principedom of Tidore.

The administrative apparatus grew slowly. In several places district chiefs, hulpbestuurders or posthouders were appointed, but no subdivisions were created until 1909 (Hollandia) and 1915 (Sorong). The post of gezaghebber at Kaimana was soon afterwards entrusted to a district chief. Similar developments took place in South New Guinea, where in 1919 a post called Boven-Digoel was created at Assike. The main task of the hulpbestuurder in charge of the post was to supervise the activities of bird of paradise hunters, a most unpromising job with the inadequate means at the functionary's disposal. The creation of further subdivisions was restricted to North New Guinea, which in 1921 comprised five such units: Manokwari, Sorong, Hollandia, Schouten Islands (Bosnik) and Serui (Yapen).

In that same year 1921 New Guinea became a separate residency of its own (cf. on this point the papers written by C. Lulofs listed in Nienhuis under nos 1-3, in particular no. 3). Further extensions were contemplated: Sarmi and Kwatisore were to become subdivisional centres. Of the two, Sarmi was later indeed, to become a subdivision, but not before 1941.

The temporary settlement at Kwatisore was soon forgotten. It was some thirty years before the plans of the Resident were realized with the creation of a Wondama subdivision with Wasior as its capital. But meanwhile many things had happened.

The sudden death of the Resident in 1923 induced the Government to reconsider the viability of a Residency of New Guinea. Communications between Manokwari and the southern and western division were poor. Consequently, the Residency was abandoned and the old situation restored. The communications with Ambon were better. But the extension of the administrative apparatus was halted. Round about 1926 even the divisional organization disappeared. In 1927, following a reorganization of the administrative structure of the Moluccas, the Regeerings-almanak (Part II of that year) informs us that the following subdivisions now came under the Resident of Ternate: Hollandia, Serui, Schouten Islands, Manokwari, Sorong and Fakfak. The two remaining subdivisions, Merauke and Boven-Digul, were placed under the supervision of the Resident of Ambon. Of the two, Boven-Digul was new. It had nothing to do with the abandoned post at Assike, 60 miles South of Tanah Merah, but everything with the concentration camp for resistance fighters established there.

In 1935 the Regeerings-almanak announced a return to the earlier

situation. South New Guinea then formed part of the new Division of Tual (of the Residency of the Moluccas); Manokwari again became the seat of an Assistant-Resident, now under the Resident of Ambon. In 1936 Fakfak followed. From the Regeerings-almanak we learn that by now the administration of the old division of West New Guinea (Fakfak) had been extended northward by adding Inanwatan to its territory. In 1937 mention was made of yet another outpost, now in the Mimika region. This is correct, but the Almanak is wrong where it states that Merauke and Boven-Digul were also included in the administration of the Assistant-Resident of Fakfak. A decision to this effect had in fact been taken, but had never been carried out. Merauke and Boven-Digul remained part of the Tual Division until the war.

In 1937 North New Guinea had 5 subdivisions, viz. Manokwari, Sorong, Central Bird's Head (the Ayamaru region), Serui, and Hollandia. The latter then had an outstation at Sarmi, which in 1941 became a sixth subdivision. Biak was no longer mentioned. Apparently it had by then returned to the status of a district. In 1938 the Ayamaru region became part of the West New Guinea Division (Fakfak), which at that time also administered the southern and southwestern lowlands of the Bird's Head (the subdivision of Inanwatan).

The pre-war administrative vicissitudes recounted above have one, not unimportant, repercussion for the student of Irian's local history. The latter should bear in mind that sometimes relevant information may be obtained from the Memories van Overgave left by the Governors, latter the Residents, of the Moluccas such as those of L. van Sandick (1926), J. Tideman (1930; Nienhuis no. 395), J. Koppenol (1934), and B.J. Haga (1938; Nienhuis no. 843). In this context mention must also be made of the Memorie written by a Resident of Ternate, viz. W.A. Hovenkamp (1934).

After the war Irian again became a Residency under the direct control of the central government at Jakarta. Hollandia became its capital. Thanks to the fact that it had accommodated the American army, it had better facilities than war-ravaged Manokwari. The administrative division returned to the old tripartition into North, West and South New Guinea, but the parts were differently defined.

In 1950 the North Division consisted of what are now the Jayapura and the Cenderawasih Divisions. West New Guinea, with Sorong as its capital, numbered five to six subdivisions: Radja Ampat, Sorong/Makbon, Manokwari, Ayamaru, and Fakfak. South New Guinea comprised three subdivisions, namely: Merauke, Boven-Digul, and Mimika. A fourth division, Central Mountains, was projected, and was for the time being to be placed under the supervision of the divisional administrator of Hollandia, who, like the other heads of divisions, was soon after the establishment of the Government of Netherlands New Guinea given the title of Resident.

In 1953-54 the number of divisions was increased by another two: the Geelvink Bay Division and the Fakfak Division. The Resident of the Geelvink Bay Division was charged with the supervision of the projected Western Mountains Division, and the Resident of Hollandia with the exploration and gradual penetration of the Eastern Mountains region. South New Guinea had to return Mimika to Fakfak. New subdivisions were created in each division, and by the end of a few years the foundations had been laid for the present organization, which has served as guide-line for the classification of the data of this chapter.

Two things should be noted, however. With the reconstitution of the Fakfak Division (1954), the Bird's Head Division, which at that time still had Sorong as its capital, retained the name Western Division. In the course of 1957, the divisional capital was transferred to Manokwari. Another point worth noting is that, with the separation of the Fakfak Division from its territory, the Western Division retained the subdivisions of Bintuni and Ayamaru, which before the war had formed part of Fakfak.

A last change followed under Indonesian sovereignty. It involved the bipartition of the Western Division into a Sorong and a Manokwari Division and the development of the two mountain districts into two fully fledged mountain divisions, Paniai and Jayawijaya, and finally the bipartition of the Cenderawasih Division into the kabupaten of Biak and Serui.

VIII.2. The Jayapura Division

VIII.2.1. General

Geographically, the Jayapura Division can be defined as the area of land bordered by the Pacific Ocean, the international border, and the Mamberamo River from its southeastern headwaters down to its mouth. The administrative border does not coincide with this in detail, but this is hardly more surprising than the fact that a drowsy little township like Hollandia turned almost overnight into a thriving provincial capital. It had been founded as an outstation of Manokwari, the divisional administrative centre on the north coast. From Hollandia government control had been extended first to Sentani and Genjem, and later all along the north coast to the Mamberamo River. Penetration further inland did not occur until the late thirties.

In 1939 (officially 1941) the Sarmi subdivision was instituted, and in those same years Van Eechoud started his explorations of the lower Mamberamo region and the Wissel Lakes. At the other end of the West-East axis Gezaghebber Hoogland extended the administrative control of the Hollandia subdivision in a southward direction to the hill country of Arso and Molof. Actually, the southeastern hill district (since 1960 the subdivision of Keerom or Ubrub) is the only part of the interior of the Jayapura Division that is relatively easily accessible and moderately densely populated. By contrast, the mountain ranges of the Northern Divide south of the Sarmi coast, from Walkenaer Bay to the Mamberamo River, are heavily accidented and very sparsely populated. Up to the present day parts of the ranges are still unexplored. Very sparsely populated also is the Lakes Plain between the Northern Divide and the foothills of the Central Mountains.

General information on the Division as a whole is limited in scope. The travel accounts of early explorers and the *Memories van Overgave* of the controleurs in charge of the subdivision of Hollandia at the time it still included the later subdivisions of Sarmi and Genjem are primarily concerned with the town and with the present day Tobati and Sentani subdivisions, and will be dealt with in the next subsection or, occasion requiring, one of the later subsections. Of all the successive divisional administrators since the North New Guinea Division was separated from Manokwari (c.1946), only one wrote a *Memorie van Overgave*, namely J.W.N. Courtois, who was Assistant-Resident in charge of

the division in 1947 and 1948 (Nienhuis no. 7; 63 pp.). A second general document is Resident Lamers' report on the first meeting of the advisory council of the North New Guinea Division (Lamers 1952). A third, and more elaborate, study, dealing with adat, inheritance, and family and land law in the Jos Sudarto (i.e. Humboldt Bay) area, and the Tanah-Merah-Demta, Sentani-Doyo-Maribo, Genyem and Kemtuk-Gressi areas, and sponsored by the University of Cenderawasih, is Adat (1973).

VIII.2.2. *Jayapura Town, Tobati and Sentani*

The Indonesian administration divided the old subdivision of Hollandia into three new ones. The available data on these three areas are so completely intertwined in our sources, however, that we could not avoid dealing with them in a single common subsection.

Today we know that the tribes which inhabited the area at the beginning of the present century belong to three groups: the Humboldt Bay people, with two villages on Humboldt Bay, two on Yotefa Bay, and one (vaguely related) on the north coast, in the Cyclop Mountains (Ormu). They speak an Austronesian language, in contrast to the two other groups, the Sko (Sekau) and the Sentani people. The former occupy the area between Humboldt Bay and the international border, and are linguistically related to the Arso, Skofro and Waris tribes of the Ubrub subdivision. The Sentani people (who have one village on Yotefa Bay, namely Nafri) occupy the whole of the Sentani Lake area and the villages of Tanah Merah Bay. We are well informed about the Humboldt Bay and Sentani people, but not so on the Sko and their southern neighbours. For descriptions of the country and the people in precolonial times, the reader may consult the reports drawn up by two members of the first New Guinea Expedition under the aegis of the Treub Maatschappij, namely Van der Sande (1907) and Wichmann (1917). Reports of earlier visitors to the area are Van der Goes (1862), Müller (1864), De Clerq (1889), Bink (1896), and Koning (1903).

More detailed general information may be obtained from the *Memories van Overgave* of N. Halie (1930, Nienhuis no. 15; Extract in *Adatrechtbundel* 45(1955):34-48), W. Philipsen (1932, Nienhuis no. 17; Extract in *Adatrechtbundel* 45(1955):49-53), J.G.H. Kramps (1936, Nienhuis no. 19; Extract in *Adatrechtbundel* 45:54-60, 353-55), W. Gerretsen (1937, Nienhuis no. 22), J. Hoogland (1940, Nienhuis no. 24; Extract in *Adatrechtbundel* 45(1955):61-92, 354 f., 479-80), W.J.H. Kouwenhoven (1947, Nienhuis no. 27), C.K. Jonasse (1957, Nienhuis no. 34), and J.W.E. Solcer (1959, Nienhuis no. 35).

In this context mention should also be made of the writings by Halie (1930), Van Hasselt (1909, 1912), Sachse (1910, 1912, 1956-57), and Sachse, Luymes and Dalhuisen (1911).

Sources on the ethnography of the Humboldt Bay people are Van Hasselt (1910), Wasterval (1916, 1922), Merkelijn (1950) and Galis (1953a, 1953b, 1955, 1968-69). Our knowledge of the Sko villages is confined to the information put forward in the *Memories van Overgave*, most especially that of Hoogland (cf. the extract in *Adatrechtbundel* 45, pp. 73-79). Additional information may (perhaps) be derived from the account by Sachse, Luymes and Dalhuisen of their experiences as members of the Dutch-German border committee (Sachse, Luymes and Dalhuisen 1912), and from the articles by Preusz (1899) and Friederici (1910).

The history of Jayapura/Hollandia has been described by Galis and Van Doornik (1960).

For more detailed information on the township's post-war development the reader should consult such official papers as Werkplan 1954-1956 (1954), the 'Bijstelling' of the latter and the Annual Reports to the United Nations (1949-1961). Interesting papers on various aspects of developments in town are: Lucas (1953a, 1953b, 1953c), Verenigingswezen (1953), Film (1956), Huizenga (1958, 1960), Van der Meulen (1959), Broekhuysen (1960), Smits (1961) and Siahaya (1972).

For general information on Sentani see the Memories van Overgave mentioned above and the relevant extracts in Adatrechtbundel 45, in particular nos 26-29. They contain but a small proportion of the available information, ethnographic and otherwise. Among the various authors who have tried to describe Sentani culture, the most prolific was undoubtedly Paul Wirz (Wirz 1924, 1928, 1929, 1933-34).

There is a large quantity of other literature, both old and new besides. We would mention Wasterval (1919), Bijkerk (1924, 1931), Halie (1931), Kramps (1939), Loth (1941-42), Cowan (1950, 1952, 1955), Erich and Peters (1952), Spreuwenberg (1953), Galis (1954, 1969), Galis and Pouwer (1956), Van Logchem (1957), Hofman (1959), Kooijman (1959, 1964), Van Emst (1961), and Hoogerbrugge (1967).

Of interest also are the results of student research laid down in Academic Essays accepted by UNCEN and associated institutions at Jayapura, especially the essays of Sudarma (1972), Asmuruf (1973), Inggerik (1973), Monim (1973), Dimara (1975), Mambrasar (1976), Ranti (1976), and Kanday (1979). Two other papers to be mentioned here are one by Suwardi (1972) and another by Subardi (1982).

The data on traditional Sentani culture raise two problems that demand the carrying out of comparative studies and further research. The first is that of the karawari houses, often called 'temples' in the relevant literature. 'Temples' of this specific type occur from as far away as the Huon Peninsula in the East up to the Mamberamo in the West. They are (were) not found everywhere. Often the concomitant ritual had to be acquired by purchase. A comparative study and further research are called for.

The second problem is that of Sentani marriage rules and kinship terminology. Galis has pointed out in an unpublished note that they may be regarded as a replica of the Aranda system, as R. Scipio did before him (1968?) in a likewise unpublished paper, written for the Anthropological Institute of Utrecht University. Van Baal has expressed his doubts about this, however. He assumes that the terminology in question is based on relations not between genealogical but between local groups, leaving aside the question of how the difference between the two should be defined. There are indications that similar trends exist among some of the tribes in the Ubrub subdivision. The question of the relationship between locally and genealogically based exogamy being one which is currently occupying the attention of New Guinea specialists, further studies on the subject would be welcome.

VIII.2.3. *The Subdivision of Ubrub (Keerom)*

The interior south of Jayapura has long been neglected. The subdivision of Ubrub was created as late as 1960. Our knowledge of the area is patchy, while fairly little information has ever been published. A noteworthy exception is formed by the extracts from Hoogland's excel-

lent *Memorie van Overgave* in *Adatrechtbundel 45*, which, together with a few articles, is all that has appeared in print. The archives contain more abundant information (see Nienhuis' *Inventaris* of the KBZ Rapportenarchief), but all the existing papers and publications combined cannot disguise the fact that most of the area constitutes a white spot on the ethnographic map of Irian, a conclusion that is well borne out by the following list of titles: Kramps (1939-40), Hoogland (1940), Van Eechoud (1944), Galis (1956, 1956-57, 1957a, 1957b), Rombouts (1957, 1959), Suparlan (1972), Waine (1974), and Koyafi (1976).

For further information the reader may consult the reports listed in *Nienhuis* under nos 125-144, and the *Memories van Overgave* of the *controleurs* and *gezaghebbers* of *Hollandia* mentioned above. (Until 1960 *Ubrub* formed part of the *Hollandia* subdivision).

VIII.2.4. *The Nimboran Subdivision (Genyem)*

This subdivision consists of three different parts, the Demta district, the districts of Nimboran and Kamtuk/Cressi, and the southern district of Unurum. Of these, Demta is a recent addition to the subdivision. Apparently the Demta people have never caused problems. The fact that there are no publications or reports devoted specifically to this area implies that they have not in the past made trouble. The reader will have to content himself with such information as can be derived from the *Hollandia Memories van Overgave* and with such incidental information as can be found in general works such as those by Van der Sande (1907) and Wichmann (1917) in *Nova Guinea III* and *IV*.

The latter were among the first visitors to the Nimboran district, which in later years aroused the interest of the officers in charge of the *Hollandia* subdivision because of its supposed potential for more advanced agriculture. They promoted the first agronomic soil investigations in the area. The results of these were encouraging. In 1951 Nimboran became a separate subdivision and the scene of Irian's first community development project, a project designed as an answer to the cargo cult, which had got the local people in its grip after the war. An authoritative account of these developments in the context of the Nimboran's original culture has been given in the doctoral dissertation of the first *controleur* in the area, viz. W.J.H. Kouwenhoven 1956. Another publication on the Nimboran community development project is Van Baal (1953). An evaluation of the project is given by Op 't Land (1970). Further information on Nimboran may be derived from Wentholt (1940), Elmberg (1949), Galls (1953), Kabel (1953), Van Loenen (1953), Anceaux (1957), Duwith (1975), Jaap van der Wilden (1976, 1981), Jelly van der Wilden (1976a, 1976b), Rafta (1978), and May (1981).

For unpublished reports on Nimboran see *Nienhuis* nos 67-83, and in particular the *Memories van Overgave* by E. van Voskuylen (1957, *Nienhuis* no. 82) and C.S.I.J. Lagerberg (1959, *Nienhuis* no. 83).

Very little is known about the tribes of the Unurum district. Information can only be derived from the two *Memories* just mentioned, from Elmberg (1949), and from the extracts of Kouwenhoven's patrol report to Guay published in *Adatrechtbundel 45* (1955), pp. 101 and 485-86 (see also *Nienhuis* no. 70).

VIII.2.5. *The Sarmi Subdivision*

Sarmi is one of the few subdivisions which has attracted three different, qualified anthropologists, namely A.C. van der Leeden, G. Oos-

terwal and Koentjaraningrat, the first working both on the coast and in the western interior, the second in the eastern interior, and the third again on the coast. The results of their research in the Sarmi region have been published in Koentjaraningrat (1966a, 1966b, 1977), Van der Leeden (1954a, 1954b, 1955a, 1955b, 1955c, 1955d, 1955e, 1955f, 1956, 1961, 1962), and Oosterwal (1959, 1961a, 1961b). A discussion of Van der Leeden's dissertation of 1956 is given by Pouwer (1960).

Other recommended publications on Sarmi are Gjellerup (1912, 1915), Bijkerk (1921), Jamna (1949), Laroche (1949), Van Dooren (1959), Erickson (1976, 1981a, 1981b), and Sterner (1981).

Finally, there is a not inconsiderable amount of unpublished archive material, primarily the papers listed by Nienhuis under nos 84-120. The more important among these are the Memories van Overgave of H.F.H. Wollrabe (1938, Nienhuis no. 84), W.F. van den Berg (1940, Nienhuis no. 85), J.W. van Eek (1952, Nienhuis no. 91), J. Dubuy (1954, Nienhuis no. 108), C.A.B. Pley (1955, Nienhuis no. 112), F.E. Meijer (1959, Nienhuis no. 118), and E. van Voskuylen (1962, Nienhuis no. 120).

VIII.2.6. *The Mamberamo Subdivision*

The Mamberamo subdivision was created round about 1960. Memories van Overgave relating to the area are not available, and the few official papers registered by Nienhuis under this heading (nos 121-124) are of little value to the anthropologist. Apart from the occasional communications found in the Sarmi Memories and papers and in the reports of the exploratory expeditions which fought their way inland through the rapids of the Mamberamo River (cf. section VI.2.2.), relevant information is restricted to Van Eechoud (1962). This posthumous publication of Van Eechoud's major contribution to ethnography is a collection of extracts from "Verslag van de Exploratietocht naar Centraal Nieuw Guinea begonnen op 3 mei 1939, afgebroken wegens het uitbreken van den oorlog op 10 mei 1940", published in mimeographed form by the Ministry of Oversea Affairs in 1949.

Further information on Mamberamo can be found in Kerkhoven (1909), Moszkowski (1911, 1912, 1928), Dubuy (1955) and Oosterwal (1963). Doubts about the reliability of Moszkowski's account of 1928 have been expressed in Militaire Exploratie (1920:31ff) and by Van Eechoud (1962:50).

VIII.2.7. *The Lakes Plain (Meervlakte)*

The Lakes Plain is ethnographically a terra incognita. Administratively, it forms part of at least three subdivisions: Mamberamo, Sarmi, and Nimboran. Descriptions are to be found in the reports of successive explorers. Their contacts with the local population - if any - were few. Exceptions are Mamberamo (1915), Feuilletau de Bruyn (1952-53), and Giel (1959). For a geographical description Langeler and Doorman (1918) may be consulted.

VIII.2.8. *Bibliography*

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VIII.3. *The Cenderawasih Division*

The people occupying the shores of Cenderawasih Bay and the islands in or facing the bay belong to a fairly homogeneous cultural province characterized linguistically by the use of Austronesian languages, socially by an organization into patrilineal clans and lineages, and materially by the dominant place of the canoe (and seafaring) in their ordinary and ceremonial life. Of course there are exceptions: Papuan languages are spoken in parts of Yapen and in several places along the coast. In the past Mapia atoll harboured the southernmost Micronesian settlement. Inside this cultural province four main regions can be distinguished: Biak/Numfor, Windesi/Wondama(Wandamen), Yapen, and

Waropen. Of these, the southwestern part of the Biak/Numfor region and the whole of the Windesi/Wondama region belong to the Manokwari Division, and so are dealt with in the next section (VIII.4.2. and VIII.4.4.).

Before the war the whole of the Cenderawasih region formed part of the Division of North New Guinea, which had Manokwari as its capital. After the war Manokwari and the Windesi/Wondama region were allocated to a new Division of West New Guinea, which included the whole of the Bird's Head and the Fakfak region. Simultaneously the central and eastern parts of the Cenderawasih region were incorporated into the reduced Division of North New Guinea, which was given Hollandia as capital. In 1953 Cenderawasih became a separate division. It then also included the present-day Nabire subdivision, which under Indonesian rule was added to the Paniai Division. As part of the coastal region of Nabire clearly belongs to the Waropen cultural area, this coastal area will be discussed here. For the tribes of the interior of the Nabire subdivision the reader is referred to subsection VIII 8.3.a.

A more drastic measure taken by the Indonesian Government was to split up the division into two parts, the kabupaten of Biak and the kabupaten of Serui. Because each of the two new divisions is relatively small and the relevant literature proportionally limited, the present authors have decided to present the data under the now somewhat obsolete heading Cenderawasih Division, which was the name of the region when the Biak and Serui Divisions were still united.

For literature on the Cenderawasih region as a whole the reader is referred to the sources mentioned in subsections 1 and 2 of the section dealing with the Manokwari Division (subsections VIII.4.1. and VIII.4.2.). The reason for this is plain. Until 1945 Manokwari was the main centre of the entire region, the place where all communications with and between the several parts converged.

VIII.3.1. The Biak-Numfor Region

Culturally and historically the region includes Doreh Bay and those islands off the East coast of the Bird's Head which do not form part of the Windesi/Wondama region. Doreh Bay (Manokwari) was the centre of communications within the region, and the centre also where the study of Numforese culture and language first began. Consequently, an important portion of the literature containing general information on the Biak/Numfor area and specific information on Numfor culture and language forms part of the literature concerned with the Manokwari Division, notably the sources mentioned in subsections VIII.4.1., 4.2. and 4.3. The reader is advised to consult these subsections, as most of these sources have not been listed here.

Good introductions to the cultures of the Biak-Numfor area are Feuilletau de Bruyn (1920), Galis (1953a), Mamoribo (1971), Kamma (1972a, 1972b), and Rumsarwir (1977). General information on the area may be derived from the sources mentioned in section VIII.4.1. and from De Bruyn (1948-49a), Stephan (1951), Galis (1953b), and Van Gendt (1954). On the development of Biak's international airfield and the construction of the township the reader may consult the relevant passages in the Annual Reports to the United Nations; a picture of the woeful circumstances in which this development started is given by Van den Berg (1982). Less spectacular were the development of a cooperative garden complex for the cultivation of vegetables (Wttewaall) in NCS

2, 1958, pp. 266-77), the promotion of copal collecting in Bosnik (prepared by i.a. Zieck; Nienhuis nos 180, 181), and the work of the Fisheries Extension Service (Ch. IX.3.5, and Nienhuis nos 198, 210, 212).

Sources concerned with the ethnography of the islands, other than those mentioned under sections VIII.4.1., 4.2. and 4.3., are Pijnappel (1854), Meyer (1875), Von Rosenberg (1878-79a, 1878-79b), De Clercq (1888a), Van Hasselt (1902a, 1902b, 1910, 1911, 1914a, 1914b), Jens (1904, 1912-13, 1915a, 1915b, 1916), Tydeman (1912), Tanamal (c.1923), Wirz (1923-25, 1931), Kijne (1930), Hartweg (1932-33, 1935), Feuilletau de Bruyn (1937-39, 1940-41a, 1940-41b, 1940-41c, 1940-41d, 1941-42, 1946-47, 1948-49), Ten Haaft (1939, 1946-49), Held (1939, 1940), Hondius (1943), De Bruyn (1948-49b, 1949), Sohilit (1949), Pos (1950), Biak (1955), Kamma (1955a, 1955b, 1955c, 1982), Noemfoor (1955), Galis (1961, 1963, 1970), Mansoben (1975), Korwa (1976), and Timme (1977).

A remote part of the Biak subdivision is Mapia atoll. Its curious history has been related by Wichmann (1909-12, cf. the index of *Nova Guinea II*, sub voce *Mapia*). See also Heeres (1900), Wichmann (1900) and Riedel (1952-53).

VIII.3.2. *The Yapen Subdivision*

In the post-war period Serui, the administrative centre of Yapen, enjoyed considerable publicity as a township where pro-Indonesian feelings prevailed, as a centre of the missionary activities of the Netherlands Reformed Church, which had its theological seminary here, and as the centre of a successful cacao cultivation project (cf. chapter IX.3.2.). Nevertheless, anthropologists have never given much attention to the area, so that we know very little about Yapen. Our information is restricted to sources which, in part, are also concerned with the Waropen area, which most of the time formed part of the Yapen subdivision. First to be mentioned are the *Memories van Overgave* of L.J. Huizinga (1927, Nienhuis no. 217), G. de Lassaquère (1932, Nienhuis no. 219), J.G. Detiger (1934, Nienhuis no. 220), F.J.H.M. Routs (1936, Nienhuis no. 178), F.R.J. Eibrink Jansen (1951, Nienhuis no. 224), J.W. van Eek (1954, Nienhuis no. 229), and W.M. van der Veen (1957, Nienhuis no. 237). Publications on Yapen are Bout (1931), Detiger (1935c, 1941-47), Van Eek (1955a, 1955b, 1955c), Teutscher (1955) and Anceaux (1961).

Aside from a few items in Nienhuis which have not been quoted here, this is about all. Perhaps some additional data may be derived from A.J. de Neef (n.d., 1938), who served as a missionary in Hollandia, Sarmi and Serui, and is the author of a number of mission stories published under his own name and under the pseudonym A. Zaaier. They have been listed by Galis in his bibliography (1962, pp. 199 and 273).

VIII.3.3. *The Waropen Subdivision and the Nabire Coast*

We are well informed about the Waropen people proper, but know next to nothing about the tribes in the interior - , just as little, in fact, as we know about the inhabitants of the islands off the Nabire coast and the few tribes speaking Papuan languages, which occupy part of Nabire's coastal area. The little information that is available is to be found in the *Memories van Overgave* listed in the preceding subsection and in those which are concerned only with the Waropen, viz. J.W. van Eek (1954, Nienhuis no. 234), R.Ch. Mahler (1958, Nienhuis no. 238),

and H.W. Assink (1958, Nienhuis no. 240).

Substantial information on Waropen culture is provided by Held (1939, 1940, 1947-48, 1956, 1957). Other sources are De Clercq (1888b), Lulofs (1912), Detiger (1935a, 1935b), De Neef (1937), and Assink (1960).

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III.4. The Manokwari Division

III.4.1. General Information

The Manokwari Division comprises only half of the Bird's Head peninsula. Its population can be roughly divided into two categories: those speaking Austronesian and those speaking Papuan languages. Of the

former, those tribes which form part of what Held has called the cultural province of Geelvink Bay (De Papoea Cultuurimprovisator, The Hague: Van Hoeve, 1951, p.19) live in the immediate vicinity of Manokwari and in the Wondama-Windesi region. About the inhabitants of the eastern part of the Bintuni subdivision we know that they, too, speak an Austronesian language (actually, a Windesi dialect). Their cultural position, however, is uncertain. The tribes of the other category, those speaking Papuan languages, are in the majority; they are settled throughout the mountainous interior, on the north coast, on part of the east coast, and in part of the Bintuni hills and lowlands.

Manokwari is located on a magnificent natural harbour which even in early times attracted many visitors. Here the Protestant mission opened its first mission station (1855), and in 1898 the colonial government founded its first permanent administrative centre. Consequently, Manokwari (Doreh Bay) figures in a great variety of early travel accounts, many of which have been listed in chapter VI.2.3., notably Forrest (1779), Leupe (1875 and 1876), Van der Goes (1862), Goudswaard (1863), Robidé van der Aa (1879), Haga (1884), Von Rosenberg (1875), d'Albertis (1880), Meyners d'Estrey (1881), Meyer (1873a, 1875a, 1875b), Beccari (1924) and Von Miklucho MacLay (1876). To this list should be added the reports by De Bruyn Kops (1840), Fabritius (1855), Goldman (1866-67), Bruyn (1877) and De Clercq (1893). With the exception of the work of Goudswaard and part of that of De Clercq, the ethnographic value of these accounts is negligible. The same can be said of the Special Reports of the Allied Forces, S.W. Pacific Area, Allied Geogr. Section, nos 40, 46 and 79 - war products which have been discussed above in section 1.1. The reports produced in the course of the period of exploration, which have been listed in section VI.2.2. (e.g., Wichmann 1917 and Militaire Exploratie 1920) sometimes provide more information, though on the whole they are very unsatisfactory. Disappointing also is the ethnographic information which may be derived from such later works as Bergman (1952), Lundquist (1952), Kokkelink (1956), and De Kock (1981).

A separate category of general works that contain more ethnographic information than the preceding one is that comprising publications dealing with the history of the Protestant missions in these parts. The more important of these works are those by Kamma, by the two Van Hasselts, and by Rauws mentioned in section VI.4. The most informative among them are Kamma's *Kruis en Korwar* (1953), which contains various articles on local subjects, and his *Dit wonderlijke Werk* (1976), a detailed history of the Protestant Mission in these parts.

A third category of works giving general information is that of *Memories van Overgave* and of articles written on subjects of administrative interest. From this category of articles those on (Indo-)European colonization in the area have been excluded. Included, however, are the *Memories* written by the controleurs of the subdivision of Manokwari before 1950, because the subdivision in those years comprised some three quarters of the present-day division of this name. The relevant *Memories* are, in chronological order C.C. Krom (1924, Nienhuis no. 4), W.A. Hovenkamp (1931), M. Klaassen (1936, Nienhuis no. 617), W. Kuiper (1937, Nienhuis no. 618), K.Th. Beets (1938, Nienhuis no. 5), J.C. Verkerke (1947, Nienhuis no. 619), K.W. Galis (1947, Nienhuis no. 621), and L.L.A. Maurenbrecher (1953, Nienhuis no. 543).

Articles on the problems of (native) policy and administration in the

Manokwari area have been published by Lulofs (1912a, 1912b), Burger (1928a, 1928b, 1928c, 1930), Tideman (1939), Lamers (1939b), and Du-bois (1958).

Publications containing ethnographically relevant information on various parts of the Manokwari division are J.L. van Hasselt (1876a, 1876b, 1890), Van Eck (1879, 1881), Wilken (1887), Horst (1889, 1893), De Clercq and Schmeltz (1893), Snelleman (1906, 1928-29), Van der Sande (1907), Nuoffer (1908), F.J.F. van Hasselt (1921, 1922, 1926, 1930), Van Heyst (1941), Münsterberger (1945), Feuilletau de Bruyn (1946-47, 1947-48b), Cowan (1953), Pans (1960), Pouwer (1960), and Kamma (1972). The papers by Pouwer and Pans, though primarily concerned with the Ransiki mountain area, have a much wider scope than just this part of the Birds' Head peninsula, and are of interest to all students of its mountain tribes. Unfortunately, Pans' paper is difficult of access.

VIII.4.2. The Subdivision of Manokwari

This subsection is devoted to a reviewal of the relevant literature on those parts of the Manokwari region which can be designated as non-Arfak. The people who are referred to as Arfak (a name covering various tribes) are dealt with in subsection 4.3., as there is a vast overlap between them and the Arfak people inhabiting the Ransiki subdivision. Reminding the reader that most of the relevant sources have already been mentioned in the preceding sections (in particular in subsection 4.1.), we are here listing the items which are of specific interest for the subdivision of Manokwari, i.e. the Doreh Bay region, Amberbaken and the Kebar Valley.

The Doreh Bay region has been described by J.L. van Hasselt (1888-89, 1901-03), Horst (1898), F.J.F. van Hasselt (1908, 1910, 1912, 1914, 1915), Galis (1948-49), and Kambuaya and Partono (1979).

Amberbaken early attracted attention because of the fact that the inhabitants of this coastal region are rice growers, and as such are unique among the Papuan tribes throughout New Guinea. They have been dealt with in Van Oosterzee (1906), Amberbaken (1953), and Winia (1957).

The Kebar Valley was of interest originally because of its wealth of agathis trees. Anthropological research followed later. Three reports on the area have been included in Nienhuis, viz. Desain (1956b), Labree (1957), and Zieck (1957). Articles on the Kebar Valley have been published by Lamers (1939a) and Van Royen (1956). Finally, a paper on the Kebar has been presented by Miedema (1981), followed by a complete monograph in 1984.

Among the unpublished reports dealing with the subdivision as a whole after 1950 are the Memories of F.R.J. Eibrink Jansen (1953, Nienhuis no. 624), H.W. Assink (1956, Nienhuis no. 632), W.G.F. Winia (1957, Nienhuis no. 638), and F.H. Peters (1961, Nienhuis no. 641). Other reports of anthropological interest are those by Woelders (Nienhuis no. 626), Pans (Nienhuis nos 629-631, 634 and 646) and Zevenbergen (Nienhuis nos 636 and 637).

VIII.4.3. The Ransiki Subdivision

Information on the islands off the coast (Meos Wár and Rumberpon) is sadly lacking. All we have are scattered communications, mainly of a moralistic nature, by missionaries. This is not to say that there is

nothing of anthropological relevance in these communications, but anyone interested in the original culture of the islanders will have to comb through them with little hope of finding much.

Fortunately, anthropologically more satisfactory information on the tribes inhabiting the mountainous mainland area of the subdivision is not scarce. Though the area does not boast any monograph on any of its tribes, there are at least a number of good and informative articles, such as those by Pouwer and Pans listed in subsection 4.2. For more published information (mainly on the Anggi Lakes region) the reader should consult Van Oosterzee (1904), Wichmann (1917:103-28), Gibbs (1918), Van Arcken (1937-38), Hordijk (1939-40), Van Schreven (1940-41), Feuilletau de Bruyn (1947-48a), Van Millingen (1953-54a, 1953-54b), Zieck (1955), and Van Gendt (1960).

Unpublished reports of ethnographic relevance are Desain (1956a), Pans (1956-58), Thoof (1956), Zevenbergen (1956, 1957, 1958), and Pouwer (1957).

Finally, there are the Memories van Overgave of J.J.W. Dubois (1954, Nienhuis no. 660), G.J. van Gendt (1958, Nienhuis no. 662), J. Dubuy (1961, Nienhuis no. 663), and P. van Oosten (1962, Nienhuis no. 664). For additional reports the reader is referred to Nienhuis under Manokwari, Arfak, Ransiki, and Anggimeren.

VIII.4.4. *Wondama (Wandamen) - Windesi Subdivision (Wasior)*

This subdivision is an almost blank spot on the ethnographic map of Irian. Our sources of information are confined to the Memories van Overgave of W.G.F. Winia (1953, Nienhuis no. 669), and C.W. Labree, (1959, Nienhuis no. 671), and a small number of articles of limited value, viz. Van Balen (1886, 1915), Bink (1888), De Clercq (1889a, 1889c), Horst (1897), Van der Roest (1898), Starrenburg (1911, 1914, 1915), Wichmann (1917:340-56), Snelleman (1919), and Kijne (1960).

VIII.4.5. *The Bintuni Subdivision*

Before the war Bintuni formed part of the subdivision of Inanwatan, which then belonged to Fakfak. At that time the Babo district came under the administration of the subdivision of Fakfak. Today the Inanwatan district is part of the Teminabuan subdivision. Information on the district, both general and ethnographic, is scarce, while part of the general information is also relevant for the Teminabuan subdivision of Sorong.

General information on Bintuni is to be found in the Memories van Overgave of F.K. Lotgering (1940, Nienhuis no. 672), R.Ch. Mahler (1954, Nienhuis nos 729 and 730), E. van Voskuyl (1958, Nienhuis no. 745), G.V. Hansen (1961, Nienhuis no. 749), and F.I.M. Haes (1962, Nienhuis no. 750), and in the publications of Kan (1888), De Clercq (1889b), Moolenburgh (1903), and Lapré (1957).

Information which is ethnographically relevant has been included in Bout (1923), Wetstein (1925), Wempe (1951), Van Rhijn (1957a, 1957b, 1957c, 1959a, 1959b), Surinde (1974), Nasira (1976), and Nafurbanan (1979).

For all further information we are dependent on documents such as the *tourneeverlagen* of R.R. Bergh listed under nos 731, 734, 736-738, 740-743 in Nienhuis together with other papers mentioned there (i.a. Schultz on the upper Sibena: no. 733).

One final remark is in place here. The area deserves greater atten-

tion than it has received so far. One of the present authors once paid a short visit to the village of Negeri Besar in this area. Brief as it was, it convinced him that here was a society which had developed a culture of a very specific type which, in outward appearances, strongly reminded him of the swamp-dwelling tribes of the Southern Division.

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VIII.5. *The Sorong Division*

VIII.5.1. *General*

Three geographical areas can be distinguished here: the islands of the Radja Ampat Group, the mountainous western half of the Vogelkop mainland, and the lowlands along the west coast of the latter. The islands and the Seget district, which traditionally were part of the Salawati realm, belong to the Radja Ampat subdivision. The northern part of the mountains together with the Klamono district constitute the Sorong/Makbon subdivision, which also includes Sorong town (or Sorong Remu). All the rest of the division - the mountainous Ayamaru district and the Inanwatan and Teminabuan lowlands - is formed by the Teminabuan subdivision.

The Sorong Division is a fairly recent creation of the Indonesian Government. Initially, Sorong was a subdivision of North New Guinea, which then had Manokwari as its divisional capital. The controleur (or gezaghebber) of Sorong resided just off the coast, on the small island of Dom. Though most of his administrative duties concerned the islands, he also had to supervise the northwestern part of the Bird's Head. In the late thirties a subdivision Midden-Vogelkop was created (Amaru of Ayamaru), which soon afterwards was added, along with the equally new subdivision of Inanwatan, to the Residency of West New Guinea (then Fakfak).

After the second world war the administrative division of Irian was revised. The western part of the northern division (the present-day Divisions of Manokwari and Sorong) was combined with Fakfak and turned into a new division of West New Guinea, with Sorong, and later Manokwari, as its capital. In 1952 the subdivision Sorong was split up into two parts, the Radja Ampat Islands and Sorong/Makbon, the mainland part. Ayamaru remained but was enlarged by the addition of the Inanwatan district of the former subdivision of that name. The remaining part of this subdivision was combined with the Babo district into the new subdivision of Bintuni, with Steenkool as its regional centre. In 1954 the reshuffle was completed. Fakfak was separated from West New Guinea and became a separate division. At the same time the Ayamaru subdivision was given a new name and capital, Teminabuan.

This rather complicated administrative history has certain consequences for the use of older official papers as sources of information. Thus the researcher studying the Radja Ampat and Makbon areas (and for a particular period the Ayamaru region as well) should look for part of the information he will need in the Memories van Overgave of the Assistant-Resident of Manokwari, whereas the student of the southern part of the division including Ayamaru may have to look for information in this category of papers written by the Assistant-Resident of Fakfak. Also in other respects, subsections 1 and 2 of section VIII.4. contain information that is relevant for the Sorong Division.

The implication of this is that general information specifically relevant for the Sorong Division as such is scarce. Nevertheless, the various parts of the division are repeatedly commented on in such works as

Kamma (1953, 1976) and Feuilletau de Bruyn (1949-50). For further general information we must turn to the *Memories van Overgave*, though even these are primarily restricted to the Radja Ampat. Listed in Nienhuis are the *Memories of P.J. van der Wal* (1923, Nienhuis no. 562), A. Raamsdonk (1933, Nienhuis no. 563), G.A.M. van Gaalen (1934, Nienhuis no. 565), S. van der Goot (1939, Nienhuis nos 566 and 567), T.R. Mulder (1940, Nienhuis nos 568 and 569), M.M. van Capelle (1946, Nienhuis no. 570), R. Hoogeveen (1948, Nienhuis no. 573), G.J. Weste-rink (1948, Nienhuis no. 575), and C.K. Jonasse (1953, Nienhuis no. 580).

VIII.5.2. The Radja Ampat Islands Subdivision

The Radja Ampat are, historically and culturally, an intriguing area. They are a port of call on the route from the North Moluccas not only to New Guinea but also to Micronesia. A hundred and fifty years ago pirates of Gebe, the nearest Moluccan neighbours of the Radja Ampat (about whom we know even less than about Radja Ampat) abducted the people of Mapia atoll. In the opposite direction Biakese migrated in not inconsiderable numbers to Waigeo and probably participated in the piracies and the raids launched far westwards from the so called Papuan islands.

Yet the Gebenese, like their masters, the Tidorese, speak a Papuan language, and the Micronesians and the Biakese an Austronesian one. We are here in a region where cultures and traditions meet - and clash with often considerable violence. From Haga's account of Prince Nuku's revolt against the Tidorese court in the late 18th century we know that the Papuan Islands - as the Radja Ampat were called at the time - played an important role in this North Moluccan conflict. But how little else we know! For ages there have been migrations to and fro in these parts, but no one ever bothered to find out what it was all about. When the name Radja Ampat is mentioned no one ever thinks of such islands as Kofiau or Ayau atoll. The former lies exactly on the route from west to east, but until very recently no one ever cared to inquire into what the Kofiau people know about their past, or what their opposite numbers, the Gebenese, do, though they boast a really thrilling history of daring raids and expeditions. Ayau atoll, moreover, which is remote from everything, was never given a place in the literature until 1976. The one-page report on children's games in Ayau mentioned in Nienhuis under no. 199 (N.B. under a heading where it does not belong, namely Biak) can conveniently be ignored. Fortunately, today there is a renewed interest being shown in the islands (through a joint research project on the Radja Ampat Islands initiated by the Indonesian and Dutch steering committees of the Indonesian Studies Programme) and we can only hope that this will throw new light on the intriguing past and present of these islands, one of which (Misól) is so close to both Seran and Irian that it poses a wholly unique enigma. For the time being the historical and other sources are as numerous as they are anthropologically uninteresting.

In the first place there are the old historical sources, mentioned in chapter VI, and listed again in this chapter under VIII.4.1. The most important of these is certainly Haga, (1884). Other 19th century sources of some interest are Von Rosenberg (1862), Bernstein (1866), Raffray (1878-79), Hoedt (1881), Van Oldenborgh (1882), Kniphorst (1883), Van Musschenbroek (1883), and De Clercq (1889).

For the present century we shall turn first to the official papers listed in Nienhuis under nos 595-616, then to the publications which have appeared since 1900. The more important official papers are, next to the Memories van Overgave mentioned at the end of the previous subsection (VIII.5.1.), the Memories which have been written since 1950, when the Radja Ampat became a separate subdivision, disconnected from Sorong/Makbon. These are the Memories of J.H.F. Sollewijn Gelpke (1951, Nienhuis no. 596), M. Maresch (1952, Nienhuis nos 598 and 599), F.E. Meijer (1955, Nienhuis no. 698), R. Stephan (1958, Nienhuis no. 613), M.O. Woelders (1961, Nienhuis no. 616), and E.A. Polansky (1957; not mentioned in Nienhuis and, from the point of view of the administrative tradition an exception as officers in charge of a district were not obliged to write such a paper).

Publications and Academic Essays which appeared since 1900 are Van Hille (1905-07), Wanner (1913), Van Peski (1914), Tauern (1915), Kamma (1939, 1941a, 1941b, 1947-49, 1977), Van der Goot (1941-42, 1955, 1961), Huwelijksadat (1955), Meijer (1955), Maurenbrecher (1956), Katoppo (1957), Polansky (1957), Kamma and Galis (1958), Mamoribo (1971), Djitmau (1974), Usman (1976), Van der Leeden (1978-79), F. Mambrasar and B. Mambrasar (1978), and Mansoben (1978-79, 1982).

VIII.5.3. *The Subdivision of Sorong/Makbon*

Sorong-Remu, the old settlement of the Protestant Mission and later the base of the New Guinea Oil Company, today is a large, multi-ethnic township which as such falls outside the scope of this chapter, except on one point. In 1953 the then manager of the oil company, the NNGPM, informed the Governor of Netherlands New Guinea that an investigation into the lodgings, wishes, complaints and expectations of the Company's Papuan personnel at its Sorong headquarters would be welcome to him. This investigation was commissioned to aspirant-controleur J.W. Schoorl, who put out his, at that time enlightening, report in 1953 (Schoorl 1953).

The rural parts of the Sorong/Makbon subdivision never received as much attention as the oil settlement enjoyed. We have to content ourselves here with a small number of official reports (i.a. Memories van Overgave) and the observations of casual visitors. Mention should be made of the Memories of A. Vesseur (1952, Nienhuis no. 593; see also nos 592 and 594), W.G.F. Winia (1954, Nienhuis no. 582; see also nos 583-586, 585 and 586 being reports by Van Eek), and W.J.H. Kouwenhoven (1959, Nienhuis no. 590). Published information is provided by Bruyn (1879), Van der Goot (1938-39, 1941-43), and Kamma (1939, 1941a, 1941b, 1951-52, 1961a, n.d.). Even when we add to this list the reports of the forestry department mentioned in Nienhuis (inter alia those by Zieck), the result is a meagre one. To an important extent we must make do with the very general information referred to in subsection 1.

VIII.5.4. *The Subdivision of Teminabuan*

The two main mountain tribes of the subdivision have been amply described, the Mejbrat by J.E. Elmsberg, the Aifat by J.M. Schoorl (please note the difference in initials with the ethnographer of the Muyu). Less attention has been given to the tribes of the lowlands. For information on their cultures we must turn to official papers (Memories), scattered communications in books and articles on the work of the Protestant mis-

sion, and the casual observations of travellers. The complicated administrative history of the lowland area is yet another factor making for confusion: the student interested in this area must also consult subsection VIII.4.5., dealing with the Bintuni subdivision. Information there provided will not as a rule be repeated here.

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Archive material dealing with this subdivision is further to be found in Galis (1955-56), Hofman (1956), Van Rhijn (1959), Kamma (1961b), and Kamma-van Dijk (1961). Papers by Van Rhijn which also have relevance for the Teminabuan subdivision are those of 1957a, 1957b, 1957c, 1959a, and 1959b (see subsection VIII.4.5. and 4.6.). For other archive material the reader is referred to Nienhuis nos 672-724.

Published sources and Academic Essays on Teminabuan are: Wetstein (1925), Massink (1954), Elmberg (1955, 1959, 1965, 1966a, 1966b), Pouwer (1957), Barnett (1959), Dubois (1960), J.M. Schoorl (1969, 1979), Kamma (1970), Wafom (1977), and Kareth (1978).

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VIII.6. The Fakfak Division

VIII.6.1. The Subdivisions of Fakfak and Kaimana

This area is famous for its long-standing relations with the Moluccas. Its northwestern corner, Onin, has been found mentioned among the dependencies of Majapahit in the Nagarakrtagama. Four centuries later, Dutch opperkoopman Keyts sang the praises of its bays in his journal (Leupe 1875:141; see VI.2.3.). In 1828 the Dutch selected the area for their first attempt at founding a permanent settlement (Fort Du Bus on Triton Bay), where they proclaimed their sovereignty over the entire western part of New Guinea. Though the settlement turned out a failure, the Dutch returned. When in 1897 they decided to stake out their claims, Fakfak was one of the two places where they set up a permanent administrative centre. In the history of the discovery of Irian as documented by Haga, Leupe, Robidé van der Aa and Wichmann, the area figures as an important entrance-way to the interior of Irian. Yet, anthropologically speaking, it is the most unknown part of all Irian.

People of the 20th century, fascinated as they were by the exotic, had little interest in what presented itself as more or less commonplace. With so many cannibals and headhunters nearby, the more decently behaved people of Fakfak and Kaimana did not attract inquiry. After all, anthropology is the child of romanticism, and its students have great difficulty in detaching themselves from their own cultural legacy. Up to the present day not more than one single ethnographic monograph has been devoted to any of the various parts of this region. All remaining publications are travel stories, while even these are few in number. For the study of the area we must often turn to archive sources, primarily *Memories van Overgave*. Although these have not been written to satisfy the anthropologist's expectations, they contain information of anthropological interest.

The *Memories* on Fakfak and Kaimana, mentioned in Nienhuis, are those of F.H. Dumas (1911, Nienhuis no. 530), G.M.G.M. Ingenluyff (1918, Nienhuis no. 531), J. Seyne Kok (1919, Nienhuis no. 532), M. Dersjant (1923, Nienhuis no. 533), S.J. van Geuns (1925, Nienhuis no. 534), A.L. Vink (1932, Nienhuis no. 525), F.W. van Santwijk (1937, Nienhuis no. 467), W.J. Cator (1939, Nienhuis no. 538), J.J.C. Haar (1940, Nienhuis no. 540), K.W. Galis (1942, Nienhuis no. 468), B.W. van Milligen (1949, Nienhuis no. 470), A. Vesseur (1951, Nienhuis no. 471), J.H.F. Sollewijn Gelpke (1953, Nienhuis no. 474), C.F. Knödler (1955, Nienhuis, no. 476), F.H. Peters (1956, Nienhuis no. 487), M.O. Woelders (1957, Nienhuis no. 481), and R.Ch. Mahler (1962, Nienhuis no. 483).

Alongside the documents listed by Nienhuis under nos 465-498 which have not been included in the preceding list, mention should be made of the unpublished papers by Sollewijn Gelpke (1952a, 1952b), Brand (1956), and Pley (1956a, 1956b).

Publications on the area are Van Dissel (1904a, 1904b, 1904c, 1907), Van Hille (1905-07), Wichmann (1917), Bout (1920), Slump (1933-35), De Jong (1939-40), Cator (1942), Van Milligen (1955), Radjaschappen (1955), Bergman (1956), Rappard (1960), Van Logchem (1963), and Peckham (1981). Finally, there are the *Academic Essays* by Higimur (1973) and Turuop (1979).

Besides the publications on Fakfak listed here, there are those which have been mentioned in Chapter VI. They include the descriptions of prehistoric remains by Cator, Galis and Röder mentioned in subsection VI.1., and the travel accounts and descriptions of historical events listed in subsections VI.2.2. and VI.2.3., in particular Wichmann (1909-12), Leupe (1871, 1875, 1876, 1877), Van der Goes (1862), Von Miklucho MacLay (1876), Robidé van der Aa (1879), and De Clercq (1891). To these should be added De Clercq (1889).

VIII.6.2. *The Mimika Subdivision*

Early this century explorers recognized in the Mimika coast with its many rivers and waterways, a promising entrance-way to the enticing highlands whose snow-covered peaks on the Carstensz Mountains stirred their imagination. Consequently, descriptions of the Mimika lowlands recur in the books of travel written by explorers who tried to penetrate to the highlands, from Lorentz (1913), Wollaston (1912), and Rawling (1913) to Bijmer (1938) (cf. subsection VI.2.3.), descriptions which, however, added little to our ethnographical knowledge. In 1926 the Roman Catholic Mission settled in the area. The mission fathers initiated

linguistic studies. Later, in 1951, the Govt. anthropologist Pouwer started his illuminating ethnographic researches in the area. We now know that the Mimika lowland is culturally and linguistically a relatively homogeneous area. The inhabitants of the foothills and mountain slopes, however, are typical mountain people. Most of them are Uhunduni, who are also at home in the southern part of the Paniai Division. In more recent years one group of these Uhunduni descended further down into the lowlands and settled at Akemunga.

On Mimika Memories van Overgave have been written by M. Paliama (1954, Nienhuis no. 519), C.S.I.J. Lagerberg (1956, Nienhuis no. 522), and K.J.M. de Jong (1959, Nienhuis no. 528). Of the other archive material mentioned in Nienhuis and elsewhere, attention should be drawn to Pouwer (1953, 1954b, 1954c, 1955a) and Coenen (1957a, 1957b, n.d.). The latter was involved in the so-called Akimunga project, which has been described in the papers listed in Nienhuis under nos 287-291 and 296-298 (referring also to Noëmba and Amungme).

In addition to the books written by explorers listed in the first part of this section, mention should be made of the publications and Academic Essays on Mimika by Drabbe (1947-50), Pouwer (1954a, 1955b, 1955c, 1955d, 1955e, 1955f, 1956, 1958, 1975), Van der Schoot (1969), Beanal (1972), Timang (1973), Ayamiseba, Turukay and Hernanto (1980), and Mamapuko Riccho (1981).

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VIII.7. The Southern Division

The Southern Division is a vast lowland. Hilly country is found only in

its northern parts, mainly the subdivisions of Tanah Merah and Muyu. Until the early thirties government control was confined to the Merauke subdivision. The construction of an internment camp on the Digul (at Tanah Merah) in 1926 presented an opportunity for using the settlement as an administrative centre for the gradual extension of government control to the upper Digul and the Muyu and Mappi regions. Here the Roman Catholic mission began its work in 1933, and after 1935 the government reluctantly followed suit by establishing a few district posts, which were too poorly equipped however, for them to have a firm grip on these parts. After the war the situation was taken in hand more seriously, but it was not until 1952 that a new subdivision was created, the Mappi Subdivision. In 1954 the Asmat subdivision followed, where around 1939 the opportunities for founding a government station had been explored but not realized. In 1955 the circle was completed with the institution of the Muyu Subdivision. This opened the way for penetration further northward, in the direction of the Central Mountains, where in 1958 a post was established in Ok Sibil, an area which now forms part of the Jayawijaya Division.

Nothing has up to now been written about the Southern Division as a whole. The Memories van Overgave of the early Assitant-Residents are relevant only for the Merauke subdivision, while the Assistant-Residents and Residents who administered the division after the war never wrote any such report. Of the three publications that are of a more general nature one is concerned with the work of the Roman Catholic Mission, (Boelaars 1953), the other two with what is essentially a subject of romantic interest: headhunting (Van der Kroef 1952, 1953). For information on mission activities in these parts see subsection VI.4., and on material culture and the arts subsection VII.4.

VIII.7.1. The Merauke Subdivision

General information on the Merauke subdivision is to be found in the publications of Schmeltz (1904, 1905), Plate (1913, 1916), Wirz (1922-25, 1928), Nielsen (1930), Nevermann (1935), Van Baal (1939), Verschueren (1941, 1947-48), Boldingh (1951-52), Kooijman (1959), and Veeger (1959).

Of the relevant Memories van Overgave the older ones were written by the Assistant-Residents of the Division of South New Guinea, viz. J.A. Kroesen (1906, Nienhuis no. 299), R.L.A. Hellwig (1906, Nienhuis no. 300), L.M.F. Plate (1915, Nienhuis no. 302), and L. Berkhout (1917, Nienhuis no. 303).

Berkhout is the last Assistant-Resident (and Resident!) a *Memorie van Overgave* by whom could be traced. All later Memories are Memories of the subdivision of South New Guinea, which name had to be changed again into Merauke subdivision after the war, when South New Guinea became a separate division. The authors of these were either *gezaghebbers* or *controleurs*. Dealing with the subdivision of South New Guinea are the Memories of A.J. Wenting (1928, Nienhuis no. 304), D.H. Fikkert (1933, Nienhuis no. 305), L. Wrede (1934, Nienhuis nos 306 and 307), W. Scheffer (1935, Nienhuis no. 308), J. Voorhamme (1937, Nienhuis no. 309), J. van Baal (1938, Nienhuis no. 310), and W. Klaus (1940, Nienhuis no. 311). The Memories relating to the Merauke subdivision are those of C.W. Wolff (1948, Nienhuis no. 329), J.J. de Zoete (1950, Nienhuis no. 330), J.C.B. Koopmans (1954, Nienhuis no. 338), A. Vesseur (1959, Nienhuis no. 342), and W.M. van der Veen

(1961, Nienhuis no. 343). Other archive materials relevant for the Merauke subdivision are listed in Nienhuis under nos 299-354 (including the Memories van Overgave). Another important paper is the Rapport Bevolkingsonderzoek (see subsection IV.2. and 3.). Ethnographic information on the area will be discussed below per tribe inhabiting it. These are the following: a. the Marind-anim; b. the Boadzi (or Gab-Gab, as they were called before the war); c. the Yéi-nan (also called Yéi-anim); d. the southern tribes occupying the area between the international border and Marind-anim territory; e. the tribes settled between the Marind-anim and the Digul River; f. the tribes of Kolepom (Frederik Hendrik Island) and Komoram (more generally called Komolom).

The Marind-anim is the biggest tribe by far and is actually made up of more than 40 subtribes. Their culture has been described by Van Baal (1966). The work includes an extensive bibliography. As it would not serve any useful purpose to repeat all the titles listed in it here, the reader interested specifically in the sources of Marind-anim ethnography will have to look for them there. On one point a correction must be made, however. On p. 970 "Vertenten, De Marind-anim" etc. should read "Vertenten, 'De Marind-anim. Hun sterrekunde', BKI 77:182-93." Later publications on the Marind are Meteray (1972), Fofid (1977), and Van Baal (1984).

Boadzi is the name given to a number of sub-tribes settled in the marshy territory between Lake Murray in Papua and the swamps along the western bank of the Fly River in Irian. The ethnographer best informed on the ins and outs of their culture was the late Father J. Verschuieren, whose data, recorded in his letters to J. van Baal, have been published by the latter in Dema (1966:104-111, 587-596, 726-730, and other places mentioned in the Index - v. 'Boadzi', p. 985). They have been discussed in this Marind monography because of the close linguistic and cultural affinity between the Boadzi and the Marind-anim. Additional data collected by Verschuieren are to be found in his original letters and in his posthumous notes, which are kept in the Social Science Dept. library of the Royal Tropical Institute at Amsterdam (cf. Van Baal's description of these posthumous notes in the Preface to his publication of 1982). For further data see Van Baal (1940), De Zoete (1947), and Nevermann (1952-53).

The Yéi-nan culture has been described by Wirz (1922-25, III, about 12 pp.), Nevermann (1942), and Van Baal (1982).

To the south and southeast of the Yéi-nan there live a number of minuscule tribes: the Moraori or Manggat-rik, the so-called Kanum-anim or Kanum-irébe, the Kurkari, and the Ng'gowugar (probably the same as the Toro). The latter group and the Kurkari live on either side of the international border. We know next to nothing about these tiny tribes, except that they must be closely akin to the tribes of the Trans-Fly region of Papua. The Kanum-anim occupy a few small settlements along the east coast of the Merauke subdivision. Their main settlement is the village of Yanggandur, in the savannah area further inland. The information on them is restricted and scattered over a variety of sources. Actually, there is only one publication especially devoted to them, viz. Nevermann (1939). See also, for what it is worth, Hellwig (1907). More scattered data are to be found in Van Baal (1966, pp. 13, 343, and 347), and in Wirz (1922-25). For literature on the cultures of the eastern neighbours of Kanum, Kurkari and Ng'go-

wugar, the interested student should consult the bibliography added to Schultze-Westrum (1965). A separate group are the Mora-ori or Manggatarik of Mbur, a village near Merauke. They speak a different language, akin to the languages of the Kanum and the Trans-Fly peoples. Their culture has been drastically affected by Marind-anim influence. Apart from a few brief articles in old missionary periodicals listed in the bibliography in Van Baal (1934), under Cappers no. 1 and Van der Kooy no. 17, the one paper giving reliable information is that by Boelaars (1951).

The tribes between the Marind-anim and the Digul River have never been properly studied or classified. Relations between these tribes and the Yaqai are probable. Two of the languages of these tribes, the Makléw and the Yelmek, are fairly closely akin (cf. subsections V.9. and V.11., Boelaars 1950 and Drabbe 1954). The ethnographic information on these tribes is restricted to Nevermann's travel accounts (1935, 1940, 1952). Perhaps some additional information can be derived from the *Memories van Overgave*.

The main source of ethnographic information on the tribes of Kolepom and Komoram (Komolom) is Serpenti (1965, 1966, 1969, 1972-73, 1984). Other sources are Wolff (1948), Schoorl (1953), Verhage (1957), Van Heurn (1960), Kunewara (1981), and Tjabuy (1981), and the archive material listed in Nienhuis under nos 346-48. On the languages see subsections V.9. and V.11., Boelaars (1950), Drabbe (1949a).

VIII.7.2. The Tanah Merah and Mindiptana Subdivisions

The southwestern corner of the Tanah Merah subdivision excepted, the whole area is hilly, lying as it does on the southern spurs of the central mountains. The ethnographic knowledge of the peoples occupying these parts is restricted to the Muyu, east of the Kao River, and the Mandobo, between the Kao and the Digul. Culturally, both these peoples are akin to the mountain tribes farther to the north, which strongly suggests that the same may be expected of the hill tribes north of the Muyu and Mandobo about which no other information is available than that buried in an unpublished paper by Pouwer on the Iwur. As far as we know, the lowland tribes of the southwestern part of the area are quite different. Unfortunately, all we really know is that they speak various Auyu dialects (or languages), and thus belong to the same linguistic stock as the tribes occupying a large part of the Mappi subdivision and of the upper Asmat region. This knowledge does not make us any the wiser as regards their cultural position, however. The Mandobo also speak Auyu dialects (identified by Drabbe as Kaeti and Wambon), and the general pattern of their culture is reminiscent of that of the mountain peoples of the highlands, whereas the little ethnographic information that is available on the Auyu of the Mappi and upper Asmat regions points in the direction of a lowland type of culture, whatever that may mean.

For the ethnography of the two subdivisions interesting publications and Academic Essays are Den Haan (1955), Schoorl (1957, 1970, 1975), Drabbe (1958, 1959), Boelaars (1969, 1970), Kuktem (1974), Kandam (1979), and Rumliis (1980). Additional information, also on groups which have never been given attention in print, may be found in the papers listed in Nienhuis under nos 394-421 and nos 439-464. Some of these papers have already been mentioned at the end of subsection

VI.3.1., in the context of the Tanah Merah camp in which we also mentioned the books written by J.F.M. Salim (1973) and L.J.A. Schoonheydt (1940). These, too, give background information which may be of interest to the student of native culture and development.

An important category of primary sources is again that of the Memories van Overgave, viz. J. Wiarda (1938, Nienhuis no. 397), W.J.H. Houbolt (1940, Nienhuis no. 399), R. den Haan (1949, Nienhuis no. 402), N.A. Nieland (1953, Nienhuis no. 406), C.H. Stefels (1955, Nienhuis no. 415), J.W. Schoorl (1956, Nienhuis no. 458), and F.H. Peters (1958, Nienhuis no. 417).

Alongside the other documents listed in Nienhuis, mention should be made of Pouwer (1959), and De Vries (1981).

VIII.7.3. *The Mappi Subdivision*

The eastern and northern parts of the subdivision are occupied by Auyu-speaking tribes; the central part, all along the eastern tributaries of the Mappi River, by the Yaqai; and the remaining, western part by what Boelaars calls the Qondu tribes - people about whom we know next to nothing. Published information is almost wholly restricted to the Yaqai, the only tribe to have been properly described.

For general information on the situation in the years before and just after the war see, in addition to the above-mentioned Memories by Wiarda, Houbolt and Den Haan: Lebelauw (1941), Van Ravenswaay Claasen (1946-47), Maturbongs (1949), Verschueren and Meuwese (1950), Verschueren and Vriens (1951-52), and Nieland (1953). On a slightly later period are Mappi en Asmat (1955), Mappiverslag (1955), Van Kampen (1956), Cappetti (1958), and Zevering (1960).

Ethnographic information on the Yaqai is to be found in Boelaars (1957, 1971, 1981), and Kabagaimu (1979). Additional information on the Yaqai may be derived from Boelaars' mimeographed reports mentioned in Nienhuis (nos 385-393) and his voluminous report mentioned in Daftar buku² Keuskupan Jayapura but not in Nienhuis: De sociaal-economische structuur der Jaqai (1955, 86 pp.).

Ethnographic information on the Auyu-speaking tribes is confined to Vriens and Boelaars (1954, 1971), Tenjap (1974), and Haak (1981).

VIII.7.4. *The Asmat Subdivision*

The Asmat subdivision comprises an extensive, marshy lowland, dissected by countless creeks, and inhabited by numerous tribes and subtribes. Linguistically these are closely akin to each other, with a few exceptions each of them speaking a dialect of the Asmat language (cf. subsection V.9.) Socially, however, they are deeply divided as a result of internal warfare. Initially, in the years when they were called the Manowé, they were famous for their savagery. When they became better known and after the name Manowé had been replaced by that of Asmat, they became even more famous for their art. Yet, though much has been written about them since, they have never become fully known. There is not a single monograph on an Asmat tribe or subtribe which deserves to be called a full-fledged ethnography. There are a great many data available, but they are either too general or too specific, and are insufficient for the compilation of an integral description of their culture. Towards that end two or three subtribal monographs are still badly needed. Nevertheless, the available data are so diverse that they cannot but arouse the anthropologist's curiosity. There is no lack

of general introductions dealing with special aspects or problems to sustain this curiosity, such as Van Amelsvoort (1964), Gerbrands (1967b), Van der Schoot (1969), and Konrad, Konrad and Scheebaum (1981). The latter is bilingual and also bears the German title *Leben mit den Ahnen*. Actually, it is a catalogue of the exhibition of Asmat art presented at Hofheim am Taunus in 1981. Van Amelsvoort's book originally appeared as a doctoral dissertation under the title *Early introduction of integrated rural health into a primitive society*. One of its virtues is its extensive bibliography of the earlier literature. Other literature on Asmat art has already been listed in subsections VII.4. and 7. Titles containing more information on Asmat art among many other things, are included among the following publications devoted to Asmat culture generally: Fischer (1913-15), Mappi en Asmat (1955), Zegwaard and Boelaars (1955), Zegwaard (1954-55, 1959), Bergman (1961), Van Kessel (1961), Gerbrands (1962a, 1962b, 1963, 1967a), De Hoog (1963), Eyde (1966), Hoogerbrugge (1969, 1973, 1976), Girard (1970), Smidt (1970), Sowada (1971, 1973), Keller (1972), M'Bait and McQuire (1972), Adrian (1973), Van Arsdale (1973, 1978), Greiwe (1973), Jorpitsj (1973), Kasiran (1973), Lang (1973), M'Bait (1973a, 1973b), Omberep (1973), Rausch (1973), Walker (1973, 1974b), Arsdale and Gallus (1974), Konrad and Böhning (1974), Kuruwaip (1974a, 1974b), Mansoben (1974b), Van de Wouw (1974), Claerhout (1975), Konrad, Böhning and Sowada (1975), and Wassing (1977).

Mimeographed papers and Academic Essays on Asmat are Sowada (1961), Rumulus (1971), Ap (1974a, 1974b, 1974c), Ap and Mansoben (1974), Jamlean (1974), Korwa (1974), Mansoben (1974a, 1974c), Ohoiwutun (1974), and Setilit (1977). Further there are the articles in *An Asmat Sketchbook*, a periodical edited by F. Trenkenschuh on behalf of the Asmat Museum of Culture and Progress, Agats. Since 1970 at least six volumes of this have appeared, containing articles on a variety of subjects relating to Asmat life and art. Examples are the articles of Zegwaard (1970a, 1970b, 1978), Konrad (1977), and Arsdale (1978). Zegwaard is the author of a number of short articles such as those in *NNG* 2(1954) nos 5 and 7, in *Schakels NNG* 21(1956) and 39(1960), and in an *Asmat Sketchbook* 4(1974):137-40.

In addition to all the publications mentioned above there are the unpublished archive documents listed in *Nienhuis* (nos 422-438). Among them are the following *Memories van Overgave* relating to the Asmat subdivision: J. Thooft (1957, *Nienhuis* no. 429), M. Lapré (1959, *Nienhuis* nos 430 and 431), and H.A. van der Schoot (1960, *Nienhuis* no. 433). There is also one relating to the Casuarine Coast district, viz. V.P.C. Maturbongs (1959, *Nienhuis* nos 436 and 437). Maturbongs was well experienced in these parts. He is the author of a 12-page report on the "bangsa? Papoea bahagian 'Manoewé'" (*Nienhuis* no. 423) dated August 1938, which is apparently a sequel to the description of the exploratory activities of the previous year by R.R. van Ravenswaay Claasen (*Nienhuis* no. 422). Other interesting reports are those by Wassing on his disastrous journey with the late Rockefeller jr. (*Nienhuis* no. 435) and by Krosschell on his stay among the people of the Casuarine Coast from 1959 to 1961 (*Nienhuis* no. 438).

Finally, mention must be made of a number of films, in the first place that made by A.A. Gerbrands, Matjemosh, a woodcarver from the village of Amanamkai, an Asmat tribe on the southwest coast of New Guinea (16 mm., colour, sound, duration 27 min. Production: Stichting

Film en Wetenschap, Utrecht). A number of films of shorter duration on various subjects are available at the Institut für den wissenschaftlichen Film, Encyclopaedia Cinematographica, Göttingen, under nos E 645 - E 647/1964 and E 655/1964. Another interesting film is that by Gaisseau and Saulnier (above, p. 49).

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VIII.8. The Paniai Division

VIII.8.1. Exploration

The Central Mountains region is extremely rugged country, shielded from penetration from the south by a vast swampy lowland, and from the north by the equally marshy Lakes Plain, a plain offering considerable opportunities for traffic by water but putting up an insurmountable barrier to further penetration in the forbidding rapids in the middle of the course of the Mamberamo River. The only places where overland travel is feasible are in the far eastern part of the Jayawijaya Division and the western end of the Paniai Division. In the far eastern end a road is now under construction, a gargantuan task intended to provide an overland connection between Jayapura and Merauke. It is fairly certain that in the foreseeable future the beneficial effects of the road will be restricted to the eastern part of Jayawijaya Division. East-west travel between Paniai and the Balim area is difficult, as any possible route has to pass through narrow valleys and across mountain passes which

make road construction highly expensive. For an overland connection with the coast, Paniai should look for other solutions.

In the past two of these have been explored, namely an overland route southward from Lake Tigi via the Uta Valley, and another one northward from Lake Paniai through the Siriwo valley to Napan/Wainami on the Nabire coast. So far, neither of these possibilities has been realized, and for good reasons. The northward route leads through a very sparsely populated area with virtually no chances of raising the labour needed for the maintenance of a road; the other ends at a point on the river which is as unpromising for shipping as, further downstream, is the coast.

The exploration of the Paniai region started late. It took the discovery of the lakes by Wissel (December 1936) to stimulate the interest of the authorities. Previous mountain expeditions had concentrated more on the eastern part of the range (the Jayawijaya region) than on the western part. The two expeditions which reached this area were those led by Stirling and Bijlmer respectively, but they did not penetrate it far enough to find out that it harboured a fairly dense population (cf. subsection VI.2.2.). Wissel's discovery provoked feverish activity on the part of the administration. Thanks to Van Eechoud's untiring efforts both as an explorer and as an organizer, Enarotali was able to welcome its first controleur (Stutterheim), as early as the autumn of 1938. In 1939 his place was taken by Vic de Bruyn, who, by destiny and perseverance, became the great explorer of the area. The reports of the preparatory explorations in 1937 and 1938 by the Assistant-Resident of Fakfak, Dr. W.J. Cator, cannot easily be traced. Easier of access is Van Eechoud's thrilling account of his crossing from south to north in 1938 (Van Eechoud 1939). Van Eechoud did not restrict himself to travelling; he organized the construction and fitting out of the new government station at Enarotali. A great achievement and an instructive report. His explorations had an immediate follow-up in those by Harzen and Van Krieken and those of the Wissel Lakes Expedition of 1939 led by Le Roux. These explorations have been reported in Harzen (1939), Krieken (1940), and Le Roux (1948-51). Further reports are those by Le Roux (1927), Van Ravenswaay Claasen (1939), and Eyma (1940).

With the arrival of De Bruyn as controleur at Enarotali, a new period of intensive exploration of the area set in, which laid the foundations for regular government supervision in the Western mountain region (De Bruyn 1939a, 1939b, 1939-41, 1941a, 1941b). Similar exploratory activities from a later period have been reported by Veurman (1951, 1951-52) and Meyer Ranneft (1952-54). See also Nienhuis nos 252, 268, 274, 277, 279, 282-285, 293-295.

VIII.8.2. Administration and Related Matters

In 1953 the Dutch colonial government entrusted the Resident of Biak (the Cenderawasih Division) with the supervision of the Western Mountain area, an arrangement which was continued after this region was recognized as a separate division. Following the transfer of sovereignty to Indonesia, the division received a bupati of its own. The bupati, however, was not stationed in the mountains but on the coast, in Nabire. By creating a separate subdivision of Nabire and transferring it from the Cenderawasih Division to Paniai, the Indonesian Government brought about a situation whereby the administrative officer in charge of the area is resident in the division itself, but is, in fact, as much

out of direct touch with the centre of its population as formerly the Resident of Biak used to be.

On the administration of the main area four Memories van Overgave are available, namely those by R.J. Meyer Ranneft (1952, Nienhuis no. 257), R. Den Haan (1956, Nienhuis no. 264), J. Massink (1960, Nienhuis no. 275), and G.O. Bouma (1960, Nienhuis no. 280). Other sources on administrative matters and related subjects are Meyer Ranneft (1950-51), Boelen (1955), Van Logchem (1957b), Van Nunen (1957), Van Emst (1958), and Dubbeldam (1964). Of interest in this context is the "Wege Bage movement", discussed in Nienhuis no. 271 (1959) and in the more recent paper by Mote (1976). Finally, mention should be made of the discussion of the administration of justice in the Wissel Lakes area in BK1 117:25-50 and in NGS 5:253-76, listed in subsection VI.3.3. and 3.4., under Keuning (1961) and Lemaire (1961).

For information on development work the reader must turn to chapter IX. It is very limited, as is that on the activities of the missions. Reports on the progress made by the CAMA, or Christian and Missionary Alliance, which has been working in the area since just before the war, are to be found in the periodical *Parousia*. Unfortunately, most of the information presented here is of an edificatory rather than a factual nature.

The archives do not yield much information, either. The one report mentioned in Nienhuis (no. 293) is that by the missionary Troutman on his visit to the Ilaga valley. The Roman Catholic mission, which started its work here more or less simultaneously with the Protestant CAMA, is dealt with by Steltenpool (1957-58) and Degei (1977). A settlement project for mountain dwellers in Akimunga (Mimika) is discussed by Peters (1957-58, 1958). See also Nienhuis under nos 287, 288, 296-298, and above, subsection VIII.6.2.

VIII.8.3. *Ethnography*

For the purposes of the present review the Paniai population has been divided into the following groups: a. the tribes of the Nabire subdivision; b. the Kapauku or Ekagi people; c. the Moni; d. the south-eastern tribes such as the Uhunduni; and e. the tribes of the far eastern corner (the Mulia valley). The division is neither consistently correct nor geographically complete. Its only virtue is its use as an organizing principle for the classification of the available sources without necessitating comments on what we do not know, comments which, in order to be useful, demand a better local knowledge than that which is at present available. For a review of the different tribes and their territories see *Adatrechtbundel* 45(1955):322-26.

a. The sources containing information on the Nabire coast have been listed in subsection VIII.3.3., where they are logically more in place than in a list of sources on highland cultures. Our information on the tribes in the interior of the Nabire subdivision is restricted to the papers by Kuik (1937-38, 1940-41a, 1940-41b), and Luttkhuis (1958). Finally, attention should be drawn to the travel account of an early visitor to Yamur Lake, A. Wichmann, in *Nova Guinea* IV, pp. 356-77.

b. We are better informed on the Kapauku or Ekagi people occupying the Lakes area and a major part of the territory to the east and west of it. Authoritative are the works by Pospisil (1956, 1958a, 1958b, 1959-60, 1963a, 1963b, 1965a, 1965b, 1967, 1980), and by Pospisil and De Sola Price (1966). Other literature of ethnographic relevance not men-

tioned in subsections VIII.8.1. and 2. is De Bruyn (1939-40a, 1939-40b, 1955a, 1955b, 1955c, the Adatrechtbundel papers being extracts of an unpublished report listed in Nienhuis under no. 261), Van Eechoud (1939-40), Stutterheim (1939), Roushdy (1940), Tillemans (1950-51), Boelen (1954, 1955-56), Den Haan (1955), Dubbeldam (1957), Van Logchem (1957a), Grootenhuis (1960), Makai (1972), Tatago (1979), Kudiai (1980), and Van Emmerik (n.d.). A practically unknown part of the area is its southwestern corner, the Mapia Valley. It is dealt with by Bunapa (1972). For further information on the Kapauku the reader should consult Nienhuis. More data are to be expected from Father S. Hylkema, however, who at the time of writing is again in the field. His fieldnotes contain a wealth of data on Kapauku society and lore.

c. Reports of ethnographic relevance on the Moni are De Bruyn (1939-40a), Troutman (1951), Van Nunen (1966, 1980), and Zonggonau (1976).

d. Articles and manuscripts on the southeastern tribes have been written by Bijlmer (1939), Kammerer (1953, 1954), Coenen (1957a, 1957b, 1959, 1960), Kock (1967), and Von Schiefenhövel (1977, 1978).

e. A report on the Munia Valley, in the far eastern corner of the Paniai Division, has been written by Van Rhijn (1969).

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VIII.9. The Jayawijaya Division

VIII.9.1. Exploration and Administration

The eastern part of the Central Mountains enjoyed greater attention from successive exploratory expeditions than the western part, and yet it was not until 1938 that a really exciting discovery was made - that of the Grand Valley of the Balim. At that time, however, the territorial government was preoccupied with the preparations for a worthy follow-up to another stimulating discovery - that of the Wissel Lakes. So it happened that no action was taken in this part other than the exploration of the eastern hill country south of Hollandia, where, forty years later, the Indonesian Government planned a road which is to connect Jayapura with the eastern Highlands and, eventually, Merauke. (On the surveying activities of gezaghebber Hoogland in the Arso and Waris regions, see his *Memorie van Overgave* listed in subsection VIII.2.3.). For the time being, World War II prevented all further attempts at penetrating into the eastern mountains. And after the war the government did not hurry with this. It had more than enough work to clear away the war debris and to get ready for a new start. So it happened that the first government station in the area was established as late as December 1956, some two years after the first missionaries had arrived there. The location selected for the station was a promising one: Wame-na, in the centre of the Grand Valley, near a suitable place for the construction of a sizable airfield.

There is no need to return here to the period of the expeditions. The relevant documents have been listed in subsection VI.2.2. Here must be mentioned those documents which relate to events and developments during the first years of government control in the area, such as Hamers (1956), Veldkamp (1957, 1958a, 1958b), Gonsalves (1960),

Bongers (1960), and Ploeg (1979). On the Balim Valley see also Nienhuis nos 154, 163 and 167.

Information on the first experiences of the local Government in the northeastern part of the division is confined to a patrol report by Gonsalves (Nienhuis no. 148).

We are much better informed as regards the introduction of government control in the Star Mountains region at the southeastern end of the division. It coincided with the activities in connection with the Star Mountains Expedition of 1959 (cf. subsection VI.2.2.). The area was approached from the south. As early as 1955 J.W. Schoorl, then controleur of Muyu, undertook the first patrol to the Sibil valley (J.W. Schoorl, Nienhuis no. 168). In 1957-58 Hermans constructed a small airstrip, and soon after the Expedition people entered the field. On the activities undertaken during this period see the reports written by A.A.M. Hermans listed in Nienhuis under nos 169-171 and 173, by D.J. Dragt (Nienhuis no. 146), J. Snee (Nienhuis no. 147), J.J. Reynders (Nienhuis no. 172) and G.H. Dasselaar (Nienhuis no. 174). On the subsequent period when government control had become more or less routinized see the *Memories van Overgave* by G.H. Dasselaar (1960, Nienhuis no. 176) and J.M.A. Born (Nienhuis no. 177). During all this time the area formed part of the Division of South New Guinea. Its incorporation into the Jayawijaya Division is of a later date.

VIII.9.2. *Ethnography*

The ethnographic map of the eastern highlands is anything but complete. We know for certain that the western part of the division is occupied by Dani speaking tribes, but we have no guarantee that linguistic affinity always goes hand in hand with a high degree of cultural relationship. Nor can we be sure that all tribes in that part of the division speak a Dani language, though various Dani groups have been subject to ethnographic description. Similarly, we have by now extensive information on the Yali of the northeast and on some groups in the Star Mountains in the southeast, but no descriptions of the different parts of the area as a whole. Throughout the division we come across various well-known and well studied groups surrounded by neighbours about whom we know next to nothing.

a. *The Dani-speaking Tribes*

Earlier contributions to Dani ethnography are De Kock (1912), Van Nouhuys (1913), Wirz (1924a, 1924b, 1931), Brass (1941), and Snell (n.d.).

Since 1960 ethnographic reports and publications have followed each other in rapid succession as a result of the interest being taken in the area by missions and the government on the one hand, and by American anthropologists on the other. A great stimulus was provided by the Rockefeller Expedition of 1959/60, which entailed the tragic death of the young Rockefeller on the Asmat coast. Of the published material we would mention Hitt (1962), Matthiessen (1963), Iskandar (1964, review by Koentjaraningrat 1966a), Peters (1965, review by Koentjaraningrat 1966b), Broekhuysse (1967), Gardner and Heider (1969, review by Camps and Naylor 1972), Ploeg (1969), Heider (1970, review by Camps 1972), Nafuni (1975), Heider (1979), and Hayward (1980).

Articles and contributions to larger volumes have been published by Van der Stoep (1959-60), Bromley (1960, 1962a, 1962b, 1962c, 1976,

1980), Smit and Smit (1960a, 1960b), Brookfield (1964), O'Brien and Ploeg (1964), O'Brien (1966, 1969a, 1969b, 1980), Ploeg (1966, 1968, 1979, 1980), Heider (1967a, 1967b, 1969a, 1969b, 1971-72, 1972b, 1972c, 1975-76, 1976a, 1976b, 1980), Hively (1975), Scovill (1975), and Ucko (1969). Then, there is the often interesting unpublished material by Broekhuysse (1961), Bromley (1961), O'Brien (1969c), Larson (1972, 1976), Naylor (1973), and Wetapo (1981). To these should be added the early report of Ploeg listed in Nienhuis under no. 153.

Finally, attention should be paid to Gardner's film "Dead Birds" (Gardner 1963, 1971), and Heider (1972a).

b. *The Yali (Yale) Tribes and their Neighbours*

Information on these tribes is provided in Koch (1967, 1968, 1968-69, 1970a, 1970b, 1970c, 1972, 1974a, 1974b, 1974c, 1980), Fahner (1970), and Zöllner (1977).

c. *The Star Mountains Region (Sibil)*

The Star Mountains Region has been described by Kooijman (1962), Reynders (1962), and Pouwer (1960, 1964). Of particular interest is the penetrating description of a more northern mountain group in the Apmi-Sibil valley by Hylkema (1974).

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IX

ECONOMIC AND SOCIO-CULTURAL DEVELOPMENT AFTER 1950

IX.1. Introduction

Until World War II, Irian was the most underdeveloped part of Indonesia. After the war, and more particularly since 1950, the territory and its population have gone through a process of rapid development and change. Some of the main documents concerned with this process have been listed in Chapter VI, sections 3 and 4. Details and information on more recent developments had to be left aside there. They will find a place here, in the sections dealing with education, economic development, migration and resettlement, health care and social development. For a general orientation on the development policy with respect to the area are recommended J.C.M. Bakker (1965), *Werkplan 1954-56* and *Ontwikkelingsplan 1961-63* (see Chapter VI.3.3. and 3.4.), and Verhoeff (1956), *Development* (1968), and Garnaut and Manning (1974).

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IX.2. Education

During the colonial period the system of native school education was developed jointly by the government and the missions. The final phase of this course can be followed by reading the successive Reports on Netherlands New Guinea submitted to the United Nations over the years 1949-61. Extensive information on the policy pursued and on the problems at issue can be gathered from the reports of the Raad voor Volksopvoeding from 1951 on. A comprehensive study devoted to the place and problems of school education in the framework of the socio-cultural development of Irian is sadly lacking, though some of the problems have been discussed in the doctoral dissertations of Lagerberg (1962) and

J.C.M. Bakker (1965) mentioned in subsection VI.3.3. and 3.4. On the role of the missions in school education see also section VI.4. Other contributions to the discussion on education during the colonial period are Van Baal (1953), Heynes (1954, 1955, 1959-60), Van der Stoep (1954a, 1954b, 1956, 1959-60), Schoe (1955-56), Van Doorenmalen (1956a, 1956b, 1956c), Coreelmont (1958), Kroeskamp (1958, 1962), Verslag onderwijsconferentie (1958), Plenter (1959), Kijne (1961), and Huizenga (1962).

Since the Indonesian take-over of West New-Guinea from the United Nations in 1963, the rapid development of education has been one of the main concerns of the administration. A general statement on the strategy in this connection has been given by Soekisno Hadikoemoro (1972), a senior functionary of the Ministry of Education in Jakarta and a former deputy vice-chancellor of the University of Cenderawasih.

In the development of elementary education, the provincial government has cooperated closely with missionary organizations, and although there was a remarkable increase in public primary schools in urban as well as rural areas, in 1970 85 percent of the provincial enrolments were still at mission schools. The growth in enrolments, which, as statistics show for primary schools have almost doubled in less than 10 years - from 58,913 in 1963 to 107,058 in 1970 - has placed severe strains on teaching resources and has gone at the expense of the quality of education. The relevant figures can be found in Irian Barat dalam angka (1970) and in Masalah pendidikan (1970).

Within the framework of the rapid expansion of education there has been some discussion at the Teachers' Training College of the University of Cenderawasih, about the current context of the Indonesian educational programme for Irian Jaya. In an economy where self-employment is widespread and even a large proportion of unskilled jobs are filled by immigrants, a special system should be devised for the education of the rural indigenous population of the province. It was argued, for instance, that special vocational training courses should be introduced for students not continuing beyond the primary grade. This discussion is dealt with by Duynstee (1972) and Spicer (1972). The subject of literacy is discussed by Ellenberger (1971) and Mohanty (1971).

Much more intensive scientific research needs to be done on the problems of education in Irian Jaya. Only a few limited studies have been undertaken by students of the Teachers' Training College of Cenderawasih University in fulfilment of requirements for B.A. and M.A. examinations, or for reports such as Laporan penelitian (1981).

At the beginning, in 1963, the Indonesian government established a university in the area called Universitas Cenderawasih (UNCEN), with a faculty of law, a faculty of agriculture, a teachers' training college and an institute for anthropology. During the first decade of its existence, staffmembers of the large universities of Java were given assignments to teach at the Irian Jaya University for a number of years or were flown over at regular intervals. A major proportion of the students were initially Indonesian immigrants, because there were only few Irianese who had graduated from high school in the early sixties. This situation has gradually changed in the course of the sixties and seventies. A brief outline of the history of UNCEN and some information on its role in the development of the province are contained in an academic address delivered by its first vice-chancellor, Poerbakawaja (1977).

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IX.3. Economic Development

IX.3.1. General

Speculations about Irian's potentials for economic development date back to the third decade of this century. The problem of how to promote economic progress in this remote and unpromising backyard of the tropical world soon attracted academic attention. Between 1933 and 1965 no less than six doctoral dissertations were devoted to the subject, viz. Bruynis (1933), Winsemius (1936, see also 1955), Leslie-Miller (1952), Stratenus (1952), Cannegieter (1959), and Bakker (1965). Of all these works, the last-mentioned is the only one which does not concentrate on what should or could be done in a more or less foreseeable future, but on what has been done in the recent past. Most of the other dissertations represent attempts at giving a more scientific foundation for the schemes evolved in such circles as the Nieuw-Guinea Comité and the Nieuw-Guinea Studiekring, where people met who, lured by the challenge of Irian's vast wilderness, were of the opinion that its hidden treasures and unexplored potential called for development by a determined colonizer. Though many of their ideas on colonization were far from realistic, they were men of imagination rather than wild dreamers. In their numerous contributions to their journal, *TNG*, men such as Klein and Feuilletau de Bruyn put forward a good deal of information and a wealth of ideas that could lend support to practical development. The two editions of Klein's handbook *Nieuw-Guinea* constitute a reliable source of information and inspiration which have proved their worth.

Nevertheless, the problems were manifold. When at last the task was really taken in hand, the first obstacles to be overcome were not those of reclamation but of the construction of housing facilities for the necessary personnel and of the organization of means of transport and communication between the many isolated bigger and smaller centres of

activity. Taking a retrospective view of the last decade of the colonial era, it may be stated that the problems of communication and housing were successfully solved and also that a promising start was made with rural development and health care. On the other hand, one ardently pursued goal was never achieved. The metropolitan government had set great hopes upon foreign investment in mining as the surest way of supporting public finance. Towards that end geological and mining surveys were promoted, with the encouraging result that worthwhile quantities of copper, nickel and chromium ores were discovered. In 1959 the Government even published a preliminary report on the potentials for hydro-electric power. But all to no avail. Potential investors showed themselves interested in the opportunities offered but were put off by the political uncertainty ensuing from the Dutch-Indonesian conflict. All mining remained restricted to the activities of the one petroleum company, the NNGPM. To make matters worse, the great expectations raised by the latter's early (partly pre-war) surveys were at best only partly answered. Although the NNGPM made a praiseworthy contribution to vocational training, the contributions of mining to the economic development of Irian fell short of the initial expectations, and will not be further discussed here. For relevant literature the reader is referred to section 11.2. of this book and to the bilingual report on hydro-electric potential by Brouwer (1959).

The development process was interrupted by the transfer of the sovereignty over Irian to Indonesia. The almost total withdrawal of Dutch colonial managerial and technological expertise from Irian Jaya at the Indonesian take-over, the exorbitant rate of inflation during the years 1963 to 1965, the chronic foreign exchange shortage, and, consequently, the almost total breakdown of the central Indonesian economy in the mid sixties, have had devastating effects on the development work in West New Guinea, which was initiated in the last decade of the Dutch colonial administration. At the micro, grass roots, level, in the rural village communities the deterioration of public utilities and the breakdown of transport and marketing services, causing a scarcity of consumers goods, reached extreme proportions in 1964. A specially focused in-depth study of, for instance, the decline of indigenous copra growing in the Sarmi subdivision (Koentjaraningrat 1969) has demonstrated, however, that part of the fault also lies with the attitudes of the local population, which do not seem to be conducive yet to rapid economic development.

When, after the change of government in 1965, Indonesia embarked on a more serious and realistic scheme to develop its economy, the economic restoration and integration of Irian Jaya also received special attention. Separate development programs were designed during the years 1967, 1968 and 1969, and extensive international aid channelled through FUNDWI, the United Nations Fund for the Development of West Irian, constituted the main item of the budget. Despite the fact that over-zealous Indonesian administrators have sometimes applied themselves to "faulty" development programs, United Nations' reports and published macro-studies by qualified economists have indeed shown accelerated improvement in the money, labour and commodity markets and in transport and communications during the seventies, which at the same time, however, seem to have had dramatic or even traumatic effects on the indigenous population of the province. More information on these development processes is included in the publications of Bernander (1971),

FUNDWI (1971-72), Hutagalung (1971), Zainal (1971), Manning and Garnaut (1972, 1973), Siregar (1972), Abubakar (1974), Abdul Bari (1974), Garnaut and Manning (1974, 1979), and Hanggaibak (1974).

IX.3.2. Rural Development

a. General

The first, in many respects authoritative, formulation of the colonial government's rural development policy is found in *Agrarische Commissie* (1955). It was drawn up by a committee of prominent experts nominated for the task by the Minister of Overseas Territories. The committee paid a lengthy visit to Irian in 1953, and subsequently made the following recommendations:

- that an elaborate community development plan should be realized in 25 different areas;
- that an agri- and sylvicultural research station should be set up at Manokwari;
- that medium-sized farms should be created in the Geelvink Bay area;
- that a rice and a meat project should be started in the vicinity of Merauke in order to make Irian independent of rice imports;
- that saw-mills should be established at Manokwari and Merauke.

Although the Commission's recommendation to concentrate the better part of the supervision of the execution of its suggested plans at The Hague met with considerable criticism from the government at Hollandia, the plans themselves were sound enough. With the exception of the Geelvink Bay medium-sized farms, an experimental cacao station at Ransiki, and the Merauke saw-mill, they were all realized in one form or another.

A different form was given to the community development plan. The then Governor had his own ideas about community development. Before coming to office as such, he had had a hand in the Nimboran community development plan, the results of which did not satisfy him. He strongly felt that community development is a too strictly localized and too restricted form of government. Good government should promote economic development everywhere, and integrate it into routine forms of local self-government. He also objected to the emphasis placed on communal action which, he argued, did not do justice to the Papuan preference for individual activity and ownership. The policy adopted under his administration conduced to rubber planting in the Muyu area, the laying out of coconut and cacao plantations in the Mappi area, the promotion of improved nutmeg plantations in Fakfak, cooperative vegetable-growing in Biak, and a model project involving individual cacao gardens in Yapen. For the latter, the credit goes to agricultural officer M. de Vries, who all by himself designed a perfect scheme combining subsistence gardening with the preparation of cash crop plantations. In other subdivisions (notably Ayamaru) comparable activities were started. Very little has been published about them, and most of the relevant information has to be gathered from either the Annual Reports to the United Nations or from *Memories van Overgave* and a few reports specified in the selected papers mentioned below. The only project which has enjoyed satisfactory publicity is the Nimboran project. For discussions and relevant literature see *Op 't Land* (1970, in particular pp. 205-86). This does not mean that little has been published during this period. In the first place mention must be made of the agricultural series published by 'Economic Affairs' at Hollandia as a more technical, special issue

of the Department's Bulletin of Economic Affairs. Seven issues appeared, five in 1961, two in 1962. The essays written in Dutch are followed by a summary in English. The official title is: Mededelingen van Economische Zaken, Landbouwkundige Serie (abbreviated as MEZ). We would mention the contributions of Johnston (1961), Moll (1961, 1962), Schreurs and Simon Thomas (1961), Simon Thomas (1961, 1962), and Wttewaall (1961).

Other publications which appeared between 1953 and 1962 and are concerned with rural development generally are Jansen (1953), Van Gogh (1954), De Wilde de Ligny, Ham and Van Loenen (1954), Brantjes (1955), De Jongh (1958), De Haan (1958), Van Beek (1959) and De Vries (1959). Publications on specific subjects are Poyck (1956) on cacao, Barrau (1958) on the virtues and drawbacks of shifting cultivation (for other papers of Barrau see subsection III.3.), Wttewaall (1958) on Biak, Van Dooren (1959, 1962a, 1962b) on cooperative societies, Flach (1959) on nutmeg cultivation, Huizenga (1959) on Yapen and Waropen, and Huizenga and De Vries (1960 and 1962) on cacao and on Yapen and Waropen respectively.

Of the unpublished reports listed in Nienhuis, special mention must be made of those of M. Zwollo (1950, 1953, and 1955) on sago, on Numfor, and on Mappi respectively; of A. Perk (1953a and 1953b) on the development projects for Mappi and Muyu; of De Wilde de Ligny (1954) on Muyu; of Wttewaall (1954) on industrial sago preparation in the Inanwatan region; of Ham (1955) on cacao on Yapen; of Hofman (1955, 1956) on rural development on Yapen and in Teminabuan respectively; of De Haan (1957) on rural development in Ayamaru; of Reynders and Hofman (1957) on the agricultural potentials of the Wissel Lakes district; and of Moll (1959) on coffee cultivation in this same district. Finally, we call attention to the papers presented in Nienhuis under nos 208-215 concerning the Numfor development plan.

Recommended papers on agriculture and rural development after 1962 are Landskroner (1967), Tiga tahun pembangunan (1972), Foster (1973), Howay (1973), Walker (1973a, 1973b), Rumbiak (1974), and Karafir (1981a, 1981b).

b. Estate Farming and Agricultural Research

Estate farming never struck roots in Irian. Almost all that can be said about it has been said by De Wilde de Ligny, in his article in Klein's Nieuw-Guinea III (1954, pp. 288-91). After the war Irian counted no more than two coconut estates, one on Wakde (Sarmi) and one on the coast to the west of Merauke, which latter was owned by the R.C. Mission. More successful was the Government Rice Project at Kurik (Kumbe) in South New Guinea. The project, proposed by the 'Agrarische Commissie', had been inspired by the successes of a pre-war colony of Javanese rice-growers near Merauke, described in the Memories van Overgave by Van Baal and Klaus (Nienhuis nos 310 and 327). The new project is described by Kool and Vollema (1957).

The pre-war experimental estate of the NEGUMIJ (a private company formed by a consortium of big Netherlands-Indies estate firms) had continued in existence, but never extended its plantation beyond the 100 hectares it had originally rented in Ransiki (cf. *Wie is dat?*, 1958: 65ff.). On estate farming the reader may further consult Van Dunné (1941), Eysvoogel (1954, 1955), and Van Baal (1958).

Very little has been written about the Agrarian Research Station,

first established at Kota Nica (Sentani), and later, in conformity with the recommendations of the Agrarische Commissie, at Manokwari. Since 1959 it has published *Mededelingen van de landbouwkundige afdeling van de Stichting voor Agrarisch Onderzoek*. On the Stichting (Foundation) itself see the *Rapport Agrarische Commissie*, and Coolhaas (1954). What the Stichting actually did can be found out by skimming through Nienhuis' *Inventaris*, where under the names of individual researchers time and again the Stichting is mentioned as their sponsor. The few publications mentioned here provide an incomplete picture of the activities undertaken during this period. Far more information can be gleaned from the Annual Reports submitted to the United Nations. The last one of these (for the year 1961) gives a detailed enumeration of the various projects then in progress, in particular in connection with native agriculture and forestry.

XI.3.3. Forestry

Irian is a forest-covered country and its wealth of forest products represents an enticing object of timber exploitation and resin- and rattan-collecting. Its hardwood (intia and pomelia species) is much sought after, and such trees as the resin-producing agathis and the araucaria of the Kebar are valued sources of plywood. However, the way from the habitat of a particular tree to the sawmill is always long and difficult. This is aggravated by the fact that most of Irian's forests are extremely heterogeneous. In the more easily accessible areas timber with a market value is usually limited to two or at best three trees of a specific species per hectare. One of the forestry department's first tasks was to find out whether the numerous tree species surrounding the superior timber quality ones were good enough to be included in the harvest of an area allocated for timber-felling. If this were so, a wholesale clearing of the terrain and its reforestation with one or two valuable species only would be a payable and promising proposition. Where this is not the case, selective timber-felling is called for - an often disastrous method which excludes the possibility of replanting and leads either to erosion or to the permanent impoverishment of the composition of the forest in the process of its natural rehabilitation. As long as selective timber-felling is limited to the fulfilment of local needs, the damage done may be acceptable; if the method is applied to satisfy the insatiable demands of the world market, in other words, for export purposes, it definitely is not.

Considerations of this kind have determined the policy of the Irian Forestry Department. It was concentrated on the surveying and inventurization of the forests of Irian. The best remembered explorers were, before the war, Salverda, and after the war, in chronological sequence, Zieck, Van Royen and Kalkman. Nienhuis' inventory of the *Rapporten-archief* of the *Kantoor voor Bevolkingszaken* mentions well over 20 reports written by Zieck alone. Many more such reports must lie stored away in the files of the Agricultural Research Station at Manokwari.

Another task of the Department was the development and extension of such natural, fairly homogeneous complexes as the araucaria forests of the Kebar Plain and the agathis forests of Biak, which, under responsible management, would constitute promising objects of permanent and profitable exploitation. The Forestry Department also kept a watchful eye on the forestry activities of others, such as the timber-felling activities of the large Government saw-mill at Manokwari and those of the

small, privately owned mills which, in such places as Hollandia, Manokwari, Sorong, Agats and Merauke, worked mostly to satisfy local needs (the one in Agats excepted). Finally, in areas where the collecting of resins and rattan constituted a remunerative source of cash income for the local population, the foresters organized courses to provide information on better methods of cutting and collecting. This was, alongside the Department's contribution to the cash income of the local natives as their employer, its only activity which was of direct benefit to the local native economy. A general introduction to the subject is Beversluis (1954).

In general, publications on forest management and exploitation in Irian are scarce. Information on this subject can be gathered from the Agrarische Commissie (1955), Fokkinga (1954), and, above all, from the Annual Reports submitted to the United Nations. Publications on forest research are numerous. Apart from those mentioned by Prof. Kalkman in sections III.2. and III.3. of this volume, and the numerous reports listed by Nienhuis under the names of Zieck and Kalkman, mention should be made of Salverda (1937), Van Son (1937), Westermann (1951, 1951-52), Jutte (1958-64), Rappard (1958a, 1958b, 1958c, 1960, 1961), Rappard and Van Royen (1959), and Nienhuis nos 887-902. On the awakening of public awareness in Indonesia with regard to responsible forest management in Irian, see the Bulletin of the Indonesisch Documentatie- en Informatiecentrum (INDOC) in Leiden (Indoc, 1982).

IX.3.4. Animal Husbandry

In Irian the domestic animal par excellence is the pig. It is of the same species as the wild pig. Pigs are bred primarily for ceremonial occasions, the traditional pig-feasts. Although in the central mountains this kind of celebrations combine ritual with trade objectives, pig-breeding for purely economic purposes is alien to the Papuan tradition. Perhaps this is one of the reasons why attempts to improve (enlarge) the native strain by crossbreeding with imported boars have been unsuccessful.

Cattle-breeding was originally unknown in Irian, where the largest indigenous mammal was the wild pig. The import of cattle in Merauke by the Government and in Manokwari by Indo-European colonists has since aroused the interest of local natives in cattle-breeding without, however, making this really popular. The introduction of poultry, mostly by mission teachers, had more success over a wider area. Until World War II little attention was given to Irian's potentials for stockraising. The second edition of Klein's *Nieuw-Guinea* still ignores the subject. After the war this changed. The department of agriculture then was extended by the addition of a new subdivision for animal husbandry and cattle-raising. A government cattle station was established at Merauke.

The best source of information on this subject are the Annual Reports to the United Nations. Publications on animal husbandry are Huitema (1947-48, 1949-50), De Jong (1954), Zwart (1958, 1959), Hoekstra (1960), and Kafior (1979).

IX.3.5. Fisheries

Before World War II little attention was given to native fishing in Irian. Among the older publications we should mention Muller (1916), Boschma (1937), and Feuilletau de Bruyn (1940-41). After the war, public and official interest in fishing rapidly grew, and the post-war colonial government of Irian contributed substantially to the development of fishery

and the construction of fish ponds. The Annual Report to the United Nations for 1961 gives a good idea of the progress made until that year. Further information and literature is to be found in D.C. Zwollo (1949, 1955a, 1955b, 1956), Westenberg (1951), Bottemanne (1954), Boeseman (1956), Holthuis (1956), and Van Pel (1958, 1959). Finally, there are the reports quoted in Nienhuis under nos 903-906, 32, 55, 186, 198, 210, 212, 235 and 699. The development of the fishing industry during the Indonesian period had been dealt with by Walker (1972).

IX.3.6. Bibliography

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IX.4. Migration and Resettlement

The term 'migration' as applied in this section refers to three types of population movement: (1) the migration to towns and cities and the subsequent urbanization of the indigenous rural population of Irian Jaya; (2) the self-financed movement of unskilled and semi-skilled Indonesians from other provinces to Irian Jaya in the hope of finding employment on arrival; (3) the movement of Indonesian or foreign bureaucrats and other skilled employees of the government and large companies to take up previously secured positions. The term 'resettlement' refers to the process involving the transfer of farmers from other, densely populated parts of Indonesia or demobilized personnel of the Indonesian armed forces to take up farming in Irian Jaya under the government transmigrasi scheme; and the resettlement of semi-nomadic Irianese or Irianese occupying small isolated settlements over a large area in sizeable, modern local communities.

The movement of rural Irianese to towns or cities in search of employment or education started after the war and has since continued at an increasing rate. It is a world-wide phenomenon. Many post-war ethnographies have reported on and illustrated it with detailed microstatistical data. Often such movements have led to the development of wards in towns and cities in which people from particular rural regions, villages or clans congregated in small, compact communities. The social problems entailed by this type of migration already worried the Dutch. In section IX.6. attention will be drawn to a number of reports on these and related problems. However, they have not led to adequate descriptions being made of the economic conditions, the social organization and structure, the interaction networks, the motives for moving, or the attitudes and world view of these new Irianese urban settlers. More recent research has not achieved this, either, though occasionally attempts at further research have been made by Cenderawasih students in fulfilment of the requirements for their examinations, such as Kaipman (1973, 1974), Gobay (1977), Nenebais (1977), Turat (1977), Dow (1978), Tikul (1979), and Renwarin (1980).

So far no satisfactory studies, either quantitatively or qualitatively, have been made of the second type of population movements, the immigration of individuals from East Indonesian provinces such as Southeast Sulawesi, East Sulawesi and the Moluccas to Irian Jaya.

The third type of population movement seems hardly to have been studied, either, despite the current availability of elaborate statistics on the labour force of Irian Jaya. One of the main obstacles to an adequate study of immigration patterns of Indonesians from other provinces to Irian Jaya is, apparently, the lack of specified information provided by these statistics, which fail to distinguish between Irianese and non-Irianese or to indicate the ethnic background of the non-Irianese immigrants.

Similarly, no serious, adequately planned study seems to have been made of the resettlement of farmers coming to Irian Jaya from other provinces. In the vast body of literature which exists on transmigrasi in Indonesia, only a few titles refer to Irian Jaya, while among the numerous doctoral dissertations on the subject not one is concerned with Irian Jaya, as far as we know. We must content ourselves with the papers of Poterejauw (1972), Suwondo (1972), Karafir (1974), Dopi (1977), Suhartono (1977), Bohang (1978), and with Transmigrasi (1981-82).

The fifth type of population movement, i.e. the resettlement of semi-nomadic Irianese or Irianese occupying small, isolated rural settlements in larger local communities has a long history. It began with the introduction of schools. Long before World War II the Missions were already endeavouring to persuade people living in scattered hamlets to co-reside in larger communities which would accommodate a sufficient number of children for filling a school - a policy strongly supported by the colonial government. Many new villages sprang up this way, and with them quite a number of unforeseen difficulties arose. The semi-nomadic way of life and the preference for living in small, isolated hamlets more often than not have a solid foundation in the people's subsistence economy and in the distribution of sago groves and coconut gardens between descent groups. People prefer to live in the immediate vicinity of their gardens and sometimes feel compelled to seasonal shifts of residence. The effect of this on school attendance is, of course, adverse. A satisfactory solution can only be provided by a change in the local people's economy. Consequently, the Indonesian government is trying to combine the implementation of its nationwide program to resettle so-called suku-suku asing (isolated communities) with the likewise nationwide program for community development. It all forms part of a more comprehensive socio-cultural problem which we will deal with in the final section of this chapter. In the present context the reports listed below must suffice to make clear that the attempts at implementing the above-indicated policy are still at a very early stage of trial and error. Reports on this type of resettlement are Griapon (1972), Arfayan (1973), Hegemur (1974) and Hadisoepipto (n.d.).

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IX.5. Health

The Irian lowlands were in 1950 an unhealthy, malaria-ridden area. In the years that followed a concerted effort was made to improve health conditions. What is really important is the effect of preventive medicine rather than the fact that existing hospitals were enlarged or improved and new ones built. The near-simultaneity of elaborate anti-malaria measures, the anti-yaws campaign, and the fight against leprosy and tuberculosis with positive steps in the fields of health education, mother and child welfare and the introduction of village welfare workers has had a spectacular effect on general health conditions throughout the territory. Besides, the close cooperation of the territorial health department with the health section of the South Pacific Commission and the WHO had a stimulating effect on scientific activities of local health officers. The Annual Reports to the United Nations, though instructive, describe only part of these activities. A more vivid picture is painted by the mimeographed periodicals published by the Netherlands New Guinea Health Service, namely the *Mededelingen van de Dienst van Gezondheidszorg in Nederlands Nieuw-Guinea*, (abbreviated as MDGZ), Hollandia, a quarterly which from 1954 appeared in issues of some ninety-odd pages each, and the *Jaarverslag Centraal Ziekenhuis Hollandia*, an annual report of c.60 pages which first appeared in 1957.

There are quite a number of other publications besides, among them at least a dozen doctoral dissertations. As introductions to the subject of this section the following articles and books are recommended: De Rook (1938), Bierdrager and De Rook (1954), Bierdrager (1960), Van Amelsvoort (1964), and Vogel (1965).

It is of some interest to note that the authors of the introductory articles here mentioned were leading medical officers in the territory, and that both had experience with the primitive health conditions here in the pre-war period. Bierdrager was director of health from 1954-59. Further publications of these authors are De Rook (1930, 1957a, 1957b,

1957c) and Bierdrager (1934).

A very great deal has been written on malaria and mosquito-borne diseases generally, amongst others by Van Thiel (1955), Van Thiel and Metselaar (1955), Metselaar (1957, 1959a, 1959b, 1961), and Meeuwissen (1963). A spectacular success was achieved by the anti-yaws campaign started in 1955, which has been described in the doctoral dissertation by Kranendonk (1958).

More resistant were leprosy and tuberculosis. On leprosy see, in addition to Vogel (1965), Leiker (1958 and 1960). Preventive measures against tuberculosis are discussed by Wijsmuller (1963); see also his articles in MDGZ of 1956 and 1961, nos 3-4:4-18, and 8-2:61-94. For further literature the bibliography in Vogel (1965) should be consulted.

A recurrent condition in the highlands (though occasionally also occurring in the lowlands) is goitre. It was made the object of special research by the medical officer Van Rhijn, who reported on this in his Leiden dissertation (1969). Another report on goitre is that by Adams, Kennedy, Choufoer and Querido (1968).

Apart from the annual reports of the Central Hospital at Hollandia (since 1959 a perfectly equipped modern hospital; cf. the description by J.S. de Vries in Schakels NNG 36(1960):22-27; and by G. Hoekstra in SPC Quarterly Bulletin 9(1959) no. 4:37-40), little has been written about hospitals in the area. Even the special issue of *Mededelingen van de Dienst van Gezondheidszorg* devoted to hospitals (1958 no. 3) lacks descriptions of hospitals in our area, combining articles on how hospitals should be fitted out with essays on special diseases. The interest of the Health Service has focused on preventive medicine and mass treatment rather than on curative medicine and the individual. One of the major problems it had to contend with was nutrition and its influence on mother and child welfare, a problem which could only be solved by better health (and nutrition) education. In these two fields the Health Service has been lucky to receive the support and cooperation of two leading Dutch specialists, Oomen and Luyken, whose inspiring work has exercised a lasting influence. Oomen wrote a booklet which every social worker or student in the area should read carefully (1958; see also Oomen 1959, 1961a, 1961b, Oomen and Malcolm 1958, and Oomen et al. 1961). Luyken participated in SPC project no. S 18, 'Depopulation of the Marind-anim' (Luyken 1961, Luyken and Luyken-Koning (1955), and Luyken, Luyken-Koning and Pikaar (1964). The interest in nutrition and in health education as means of improving the health situation was shared by local medical officers. Four of them, all practitioners, have recorded their experiences in doctoral dissertations, viz. Van der Hoeven (1956), Jansen (1959), Veeger (1959), and Voorhoeve (1965).

It is not only medical officers who have given systematic descriptions of their experiences. Nurses, too, were inspired workers who did their job under often very trying conditions. An example is Bartels (1967). Other authors writing about nutrition and health education are Voors (1957), Biersteker (1962), and De Vries (1962).

On other diseases than those mentioned before reports have been written by Van der Hammen (1956), Vogel (1958, 1962), Smits (1960), Van der Hoeven and Rijpstra (1962), Schubert (1964), and Van Amelsvoort (1976).

Finally, mention should be made of the papers and articles listed by Nienhuis under nos 797-809, in particular those by Van der Hoeven,

Voors, and Luyken. A popular description of a doctor's work is given by Boelen (n.d.).

The take-over of Irian by Indonesia resulted in the departure of almost the entire Dutch medical staff. Although this did not involve a break-down in the exchange of ideas or exclude occasional visits, the remanning of the health service presented many problems. These were finally solved by the introduction of the national Puskesmas system (from Pusat Kesehatan Masyarakat). The latter involved the establishment of dozens of small clinics in many of the subdivisional towns of Irian Jaya. In these clinics junior, newly graduated doctors are obliged to serve for a period of three years before qualifying for a licence allowing them to open private practice or permission to continue their studies for further specialization. Nevertheless, the state of public health in the province is still at a low level, and such major tropical diseases as malaria, cholera and leprosy, but also tuberculosis, yaws and influenza, are continuing to contribute to mortality rates that are considered high even by Indonesian standards.

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IX.6. *Social Development*

The degree of social development achieved during the last decade of the colonial regime has never been comprehensively described, neither as a whole nor in part. To find out what was done, the reader must turn

primarily to the successive Annual Reports to the United Nations. It is only natural that he will read them with the slight suspicion that they probably present too rosy a picture of the situation. At any rate, this is the accusation levelled time and again by the anti-colonial opponents of colonial powers at the meetings of the United Nations Committee on non-selfgoverning territories. These critics tended to suspect the colonial powers of doing all they could to avoid their harsh and often biting criticism and accommodating their reports accordingly. The truth of the matter is that the metropolitan countries were wise enough not to give legitimate occasion for such accusations. Of course they were reluctant to wash their dirty linen too much in public. But they hated being exposed to the criticism that they had coloured the facts or minimized abuses, and consequently presented the facts correctly and in detail, be it with a greater emphasis on their successes than on their failures. What is important is that the facts are correct, whether they are concerned with labour conditions, housing facilities, poor relief and nutrition, or with human rights - such as the right of free assembly or of associating in trade unions - and freedom of the press. The reader of chapter III of the successive volumes of the Annual Report on Netherlands New Guinea (entitled 'Social Conditions', in Dutch 'De sociale toestand') cannot fail to be struck by the steady progress.

One of the governments' major headaches was housing and living conditions in the various towns, not only for European workers imported from the Netherlands, but also for migrant labourers coming from the rural parts of the colony. Being initially almost exclusively bachelors, these labourers were housed in barracks. After they were encouraged to bring their families with them, houses had to be built, and in this way sprang up such native wards as Hamadi in Hollandia and similar such ones in Biak and Sorong. Houses for individual families were constructed from coral bricks. The opening of social centres followed.

The Government encouraged the Christelijk Nationaal Vakverbond, one of the chief Dutch unions, to assist with the creation of native worker unions. It also stimulated research into social conditions in urban areas and - with an eye to the fixing of socially acceptable minimum wages - into family budgets. Another field of social welfare activity was that in the area of sports, scouting and the setting up of clubs and free associations generally, in all of which sorts of activity the missions and private white citizens participated.

On all these subjects little has been published other than in the Annual Reports to the United Nations. There must be numerous reports in local archives, but only a few of these have found their way to the Kantoor voor Bevolkingszaken archives inventorized by Nienhuis. Presumably, more information may be found in the various Memories van Overgave. Nevertheless, a number of reports and publications can be listed here, namely Verenigingswezen (1953), Filet (1953), Lucas (1953, 1954), Schoorl (1953), Stolp (1954, 1956, n.d.), Jaarverslag Sociale Zaken (1955), Film (1956), Minimumnormen huisvesting (1956), Huizenga (1958, 1960-61, 1962), Van der Meulen (1959), Broekhuysse (1960), Heynes (1960), Dubbeldam (1962), Snapper (1962), De Bruyn (1965).

A special chapter in the history of the colonial government's development policy of the period is that of the political development - the education of the people of Irian towards self-government and political autonomy. This policy has been described and commented on in the dissertation by Lagerberg (1962). Criticism on the government's policy

has been expressed by De Bruyn (1978).

The policy of the colonial government at Hollandia was regulated by the *Bewindsregeling* 1949, which was the legal constitution for the territory. This document urged the institution of a New Guinea Council for the colony as a whole, of local councils for its parts, and of advisory councils wherever elected councils were not yet a feasible proposition. The intentions of the legislator were clear, but their realization was left to circumstances of all kinds, and rightly so, because in 1950 the colony was not ready for their implementation. All that came of them was the institution of three advisory councils, one for each of the three divisions, and of a *Raad voor Volksopvoeding* (Council for the Education of the People) for the colony as a whole in the course of the years 1950 and 1951. The results, especially those of the meetings of the Residential councils, were not encouraging. The administrative divisions of the area were so big and diversified that members were often unable to advise on matters of local policy. On this score the colonial government faced two major problems. The one was that of the constitution of local communities large enough to support such facilities as a school, a shop, or a dispensary, and small enough to guarantee the solidarity of their constituent parts. The other was that of the institution of councils for areas of the size of - maximally - a subdivision to which financial means for the promotion of area development could be entrusted. It was not long before the Hollandia government decided in favour of local experiments.

The *Raad voor Volksopvoeding* worked more satisfactorily. In it the missions played an important role, and their advice was often useful. Nevertheless, the institution as such was too obviously paternalistic to satisfy the democratic ideals of the *Bewindsregeling*. The Hollandia government preferred a representative council on the model of the Netherlands-Indies *Volksraad*. Consultations with the metropolitan government resulted in the creation of a Nieuw-Guinea *Raad* of more restricted powers than was intended by Hollandia. Little has been published on the relevant conflict between Hollandia and The Hague. Lagerberg, at the time of the preparation of his dissertation, had no admission to the secret correspondence of before the constitution of the New Guinea Council, but some of the remarks made in Van Baal (1980) in his 'Post-koloniale Kolonie', (subsection VI.3.3. and 3.4.) suggest that a further investigation of these formerly secret documents might be of interest.

Of no lesser interest is the history of the creation of the area councils (*streekgemeenschappen*) and village councils, a subject introduced in *Werkplan* 1954-56 (cf. VI.3.3. and 3.4.). Soon after this local administrators started experiments. Their history can be traced in the Annual Reports to the United Nations (in chapter I of these, under D). It is a long history, which began with the institution of advisory councils for areas the size of a subdivision, which gradually gave way to area councils with financial and political responsibilities and with the power to create local village councils. Here the Biak case served as model. The minutes of the numerous meetings held by Resident Veldkamp with his advisory council of Biak (which minutes are only to be found at Biak or Jayapura) bear witness to the Biak people's determination to achieve a wholly new concept of a local community, a concept that was no longer determined by clan solidarity but by the spatial solidarity of neighbouring groups. It divided up the whole of the Biak-Numfor area,

with its formerly 160-odd village chiefs, into 16 (eventually 18) local communities, each with an elected governing council. A point of specific interest is that these councils had to be re-elected periodically. The system did away with the old, 'feudal' institution of village chiefs appointed for life.

Area councils of this type have so far been created in Biak, Yapen, Hollandia, Fakfak, Radja Ampat and Merauke. None of these councils, nor the village councils under their supervision, have had time for consolidation. After the transfer of sovereignty, the Indonesian Government gave priority to the integration of the new province into the national administrative arrangement. However, many of the administrative changes were postponed until after August 1969, when the Act of Self-Determination required by the agreement with The Netherlands was completed.

The Central Government's supervision of the administration of Irian Jaya was entrusted to the Direktorat Irian Barat, which after 1969 became the Sektor Khusus Irian Jaya (Special Section for Irian Jaya) within the Ministry of Internal Affairs.

The implementation of the various development programs, such as the five-year national development programs (Pelita), the United Nations development programs and the special task force programs (such as Operasi Koteka), is coordinated at the provincial level by a provincial agency for the execution of the development plans, whereas the policy-making authority is formally vested in the governor and the Provincial People's Representative Assembly, or Dewan Perwakilan Rakyat Daerah (DPRD).

One level below the provincial administration are the kabupaten. These are the administrative units which the Dutch formerly called *afdelingen*, with the one major difference that to the six *afdelingen* established, i.e. Hollandia (changed into Jayapura), Manokwari, Biak, Fak-Fak, Merauke and Paniai, the Indonesian government has added three new ones, i.e. Sorong, Serui and Jayawijaya. (Of these Serui is the most recent addition. The present work still treats Biak and Serui as being united in the kabupaten of Cenderawasih.)

The kabupaten administrations after 1969 were formally granted a certain measure of autonomy (cf. Basic Act 12, 1969), and thus are responsible for the implementation of the Government's policies and for the supervision of development projects with respect to their respective areas. Judicial, executive and coordinating powers are vested in the bupati (the kabupaten heads) and the kabupaten councils.

Each kabupaten comprises four to five administrative units, called daerah kepala pemerintah setempat (KPS), and each KPS in turn is supposed to contain four or five subdistricts (kecamatan), covering an average of thirty or so scattered villages and settlements. In many areas, however, these kecamatan have not even been formed. In a number of areas the government has made attempts to combine certain extremely small and scattered, isolated settlements into larger village communities. However, as was mentioned earlier, these attempts at village consolidation, which kind of attempts had already been made by the Dutch administration, have had only limited success.

Very few studies have been made of this process of administrative reform in Irian Jaya. Only the Academy for Administration in Jayapura has charged and encouraged its students to study the problems of administrative reform in detail, very often in conjunction with problems of

community development at the local grassroots level. The lack of funds for serious research, inadequate supervision, and general low standard of the training school are the causes of the dubious quality of most of the reports of the studies made for this purpose. Even so, some of these papers, which are kept in the library of the Academy, are informative and worth looking at if only for the multitude of local facts which they include. Examples are Gie (1966), Arfayan (1971), Artoyo (1971), Renyaan (1971), Runtukahu (1971), Ambrauw (1972), Hallatu (1973), Isir (1973), Kayot (1973), Marbun (1973), Sjukur (1973), Soor (1973), Thamrin (1973), Diningsih (1974), Hanafi (1974), Ibrahim (1974), Mainolo (1974), Tan (1974), Usnawas (1974), Achmad (1975), Iskandar (1975), Soewarto Citrotaruna (1977), Sawaki (1978), and Fisher (1980).

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EXPLANATORY NOTE ON HOW TO USE THE INDEXES

Two indexes have been compiled - one of authors, the other of geographic and tribal names. The suggestion to add a subject index as well was rejected because the bare titles presented here sometimes yield insufficient information on the contents of the various papers and books concerned for close specification. Instead, the reader should consult the introductory passages preceding the various bibliographies for the subjects specified in the table of contents.

Many anonymous papers had to be omitted from the author index, as the entry under which they appeared in the bibliographies yielded insufficient information on the relevant contents. Those which appeared under such entries as 'Rapport' and 'Verslag' or under entries possessing informative value (e.g. 'Film') were incorporated, however. Also incorporated were the names of a few non-Authors who were mentioned in the text as persons of particular interest (e.g. J. Carstensz).

The compilation of the index of geographic and tribal names was complicated by the fact that these names were found differently spelled by different authors. Adding to the confusion were the differences in orthography between English, Dutch, older Indonesian and modern Indonesian. Dutch and older Indonesian have (oe) and (j) where the English and modern Indonesian languages have (u) and (y). Recently modern Indonesian has introduced (c) for (tj), and (j) for (dj), moreover. In the index the modern Indonesian orthography has been used as the standard spelling, at least as far as the use of (u) and (y) are concerned, although even this rule could not be adhered to wholly consistently. Nevertheless, the user of the index should bear in mind that generally names which in the past began with (oe) or (j) must now be looked up under (u) and (y).

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**INVENTARIS
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door

P. NIENHUIS

INHOUD

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INLEIDING

Het Kantoor voor Bevolkingszaken werd per 10 februari 1951 ingesteld bij besluit van de Gouverneur van Nieuw-Guinea van 28 februari 1951, nr. 10, waarvan de tekst luidt:

"Overwegende:

dat het in het belang van de sociale en culturele ontwikkeling en van de opvoeding tot zelfstandigheid der autochthone bevolking van Nieuw-Guinea noodzakelijk is, de kennis van haar zeden, gebruiken, rechten en talen te verdiepen;

dat het gewenst is, een instantie in het leven te roepen, welke in het bijzonder belast zal zijn met de studie van deze zeden, gebruiken, rechten en talen en met de behartiging van de daarmee samenhangende belangen;

IS GOEDGEVONDEN EN VERSTAAN;

Eerstelijk:

Gerekend van 10 Februari 1951 in te stellen een KANTOOR VOOR BEVOLKINGSZAKEN, hetwelk tot taak heeft de ethnologische, sociaal-economische en taalkundige bestudering der autochthone bevolking in haar geheel en in haar stamverband, alsmede de behartiging van aangelegenheden, welke rechtstreeks of zijdelings betrekking hebben op de zeden, gebruiken, rechten en talen van deze bevolking;

Ten tweede:

Het Hoofd van bedoeld KANTOOR VOOR BEVOLKINGSZAKEN rechtstreeks te stellen onder de Gouverneur en hem te machtigen zich in voorkomende gevallen rechtstreeks te verstaan met de Hoofden van Dienst en andere centrale organen."

Op grond van organisatorische overwegingen werd het kantoor per 1 augustus 1959 ondergebracht bij de Dienst van Binnenlandse Zaken (zie Gouvernementsblad nr. 29 en 33). Artikel 2 van het betreffende besluit zegt van de taak:

"De Adviseur voor Bevolkingszaken is, met inachtneming van de door de Directeur van Binnenlandse Zaken te geven aanwijzingen, belast met het ethnologisch, demografisch en taalkundig onderzoek betreffende de bevolking van Nederlands-Nieuw-Guinea, alsmede met het oudheidkundig onderzoek. Hij verzamelt de gegevens, welke nodig zijn voor een goede uitoefening van zijn taak."

De aan het slot vermelde opdracht om gegevens te verzamelen heeft o.m. geleid tot het vormen van het in deze inventaris beschreven rapportenarchief. Dit archief omvat een verzameling van belangrijke nota's, verslagen, memories van overgave, excerpten uit de literatuur en uit ambtelijke stukken.

Het materiaal is afkomstig van ambtelijke en van particuliere zijde, terwijl uit de taakomschrijving blijkt, welke onderwerpen zoal in de documenten worden behandeld.

In verband met het feit dat alle deskundige medewerkers van het Kantoor voor Bevolkingszaken, als gevolg van de soevereiniteitsoverdracht in 1962, uit Nieuw-Guinea vertrokken, werd besloten het rapportenarchief grotendeels naar Nederland over te brengen. Men heeft echter niet alles verzonden; zo werd vernomen dat b.v. de rapporten, waarvan men wist dat daarvan reeds kopieën in Nederland aanwezig waren, niet uit Hollandia zijn verzonden.

Een inhoudsopgave werd niet aangetroffen; ook het inschrijfgeregister ontbrak, zodat alle rapporten opnieuw moesten worden beschreven. Om praktische redenen kon dit inschrijven niet aanstonds in systematische volgorde geschieden, zodat de nummering van de rapporten niet parallel loopt met de inventarisnummers.

Een groot aantal rapporten bleek erg geleden te hebben van de klimatologische omstandigheden, die men in de tropen aantreft, terwijl de gevolgen van een slechte magazijnruimte ook duidelijk zichtbaar waren. In meerdere jaarverslagen¹ van het Kantoor voor Bevolkingszaken wordt hiervan melding gemaakt; in het verslag over het jaar 1957 b.v.:

"Het kantoor is buitengewoon vochtig. De vloer is in de ochtenduren volkomen nat. Een andere moeilijkheid wordt gevormd door de ratten, die ondanks het toepassen van bestrijdingsmiddelen geregeld schade aanrichten aan de boekwerken in de bibliotheek."

Aan de materiële verzorging moest daarom veel aandacht worden besteed alvorens de rapporten in numerieke volgorde in archiefdozen werden opgeborgen.

Uit de jaarverslagen blijkt, dat de rapporten in Nieuw-Guinea toegankelijk werden gemaakt naar gebied, onderwerp en schrijver, waarbij de stafleden aangaven welke onderwerpen geïndexeerd moesten worden. Het lag voor de hand dat bij onze inventarisatie deze drie facetten eveneens zijn vastgelegd, waarbij het volgende wordt opgemerkt:

Gebied

Omdat de indeling van het grondgebied herhaaldelijk is gewijzigd, terwijl een bepaald gebied ook meermaals een andere naam kreeg, moest een keuze worden gemaakt voor een indeling zoals die op een bepaald moment gold. De keuze is gevallen op de bestuurlijke indeling, die is gepubliceerd in het laatst verschenen rapport (over het jaar 1961) betreffende Nederlands-Nieuw-Guinea dat jaarlijks ingevulde artikel 73e van het Handvest der Verenigde Naties werd uitgebracht.

Waar dit nuttig leek, is aan de kop van het betreffende gebied iets vermeld omtrent de instelling, vroegere benamingen, e.d. [Unfortunately not always correctly; Editors.]

¹ Aanwezig in het archief van het voormalige Ministerie van Zaken Overzee (Doc. A. nr. E467).

De aandacht wordt er op gevestigd, dat het voor het verkrijgen van alle gegevens van een bepaald gebied, steeds noodzakelijk zal zijn ook de rapporten te raadplegen van het grotere gebied; zoekt men b.v. gegevens over de Baliem dan raadplege men ook de stukken van Exploratie-essort Oost-Bergland, vanaf 1954 afdeling Hollandia en vóór 1954 Afdeling Centraal Nieuw-Guinea. Omdat de grenzen niet altijd even duidelijk na te gaan waren op het beschikbare kaartenmateriaal zal het goed zijn bij het zoeken van gegevens over de grensgebieden tevens de rapporten na te zien van aangrenzende (onder-)afdelingen.

Tenslotte wordt opgemerkt dat de naam van een gebied dikwijls identiek is aan de naam van het volk (de stam) dat daar woont; het is daarom niet onmogelijk dat bij de gebiedsindeling een aantal rapporten is samengebracht onder een naam, die in feite geen gebied, doch een bepaalde bevolkingsgroep aanduidt.

Onderwerp

Zoals reeds werd opgemerkt, werden in Nieuw-Guinea de te documenteren onderwerpen aangegeven door de wetenschappelijke medewerkers van het Kantoor. Als voorbeeld ziet men op nr. 287 aangegeven dat het stuk bij de volgende onderwerpen geregistreerd moest worden: geografie, tuinbouw (shifting cultivation), acculturatie, gezondheidszorg, ziekten, framboesia, malaria, sociale structuur, transmigratie, varkensfeest, bevolkingscijfers, onderwijs. Een dergelijke uitvoerige en deskundige documentatie treft men in de voorliggende inventaris niet aan. In de eerste plaats ontbrak de deskundigheid van een wetenschappelijke medewerker om de verschillende begrippen op het gebied van de volkenkunde te signaleren en in de tweede plaats ontbrak de tijd alle rapporten goed te lezen. In het algemeen moest worden volstaan met het hoofdonderwerp vast te leggen. Dat hier en daar toch nogal gedetailleerd is geclasseerd is meer gedaan om een indruk te geven van de zeer gevarieerde gegevens die in dit rapportenarchief te vinden zijn.

Uit het vorenstaande volgt o.m., dat gegevens over een bepaald onderwerp niet alleen gezocht moeten worden in de naar onderwerp geordende rapporten, doch dat over een dergelijk onderwerp dikwijls ook gesproken wordt in de rapporten die naar het gebied zijn ingedeeld; speciaal geldt dit voor de rapporten met een algemene strekking, zoals reisverslagen, streekontwikkelingsplannen, Memories van Overgave, e.d.

Zowel bij de primaire als bij de secundaire ordening zijn - zo nodig - verwijzingen gemaakt naar de elders geclasseerde rapporten die over hetzelfde gebied of hetzelfde onderwerp handelen; een uitzondering hierop vormen de rubrieken "Land- en volkenkunde. Algemeen", "Bestuur. Algemeen" en "Streekontwikkeling". Vanwege het grote aantal, over deze onderwerpen handelende, rapporten betreffende een bepaald gebied, zijn deze uitsluitend daar vermeld.

De titelbeschrijving, de materiële verzorging en de door gebrek aan goed kaartmateriaal moeilijke en zeer tijdrovende geografische indeling is verricht door Mej. P. van den Hoek, plv. Hoofd van het sub-bureau Statische Archieven van het Ministerie van Binnenlandse Zaken.

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364

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366

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420

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Zie ook nr. 320.

12. *Onderafdeling Asmat (hoofdplaats: Agats). Ingesteld in 1954.*

422

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13. Onderafdeling Moejoe (hoofdplaats: Mindiptana). Ingesteld in 1955; behoorde daarvoor bij de Onderafdeling Boven-Digoel.

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