Naturalis Exploring Biodiversity

thirty years of zoological research in the forests of south-east asia

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SUMMARY

The present report gives a survey of the aims and results of the research on the recent land fauna of SE Asia carried out since 1972 by staff and research associates of the National Museum of Natural History **Naturalis**. The efforts were strongly intensified since 1985 with the acceptation of a research programme for the land fauna of SE Asia. At first focusing on the area called Wallacea (Sulawesi and surrounding islands), the scope was widened in 1995 to encompass the movements of the fauna in the entire area between the Asian and Australian continental plates. The fieldwork has yielded > 100,000 specimens and samples. In addition the collections from SE Asia were enlarged by more than 150,000 specimens and samples acquired by donation and purchase. The studies resulted in the description of circa 1300 new species group taxa; the holotypes of almost all new taxa are deposited in Naturalis. These studies as well as more thematic studies on the biogeography of the area have been laid down in c. 9350 printed pages, and have been the subject of many lectures.
This report is not only retrospective. It also describes the outline of a new programme to be effective in the years to come, up to 2008.

PARTICIPANTS

Only people employed by or connected to the museum who have been actively involved in the fieldwork and/or the study of SE Asian material from the collections are included in the list below. Evidently more people were involved at an *ad hoc* basis in the preparation of the expeditions and in processing the collected material afterwards (setting, identification, labeling, etc.), including colleagues abroad.

	Museum staff	
Curators	R. de Jong (programme coordinator)	Lepidoptera
	C. van Achterberg	Hymenoptera, Diptera
	J. van Tol	Odonata
	E.J. van Nieukerken	Microlepidoptera, Arachnida
	J. Krikken	Coleoptera
	R.W.R.J. Dekker	Aves
	G.F. Mees	Aves (until June 1991)
Technicians	W.J.M. Maassen	Mollusca
	C. van den Berg	Microlepidoptera, Arachnida
	C. Lepelaar	Lepidoptera
	B. van Bekkum-Ansari	Lepidoptera
	R. de Vries	Hymenoptera
	E. Rombaut	Coleoptera
	H. van Grouw	Aves
	D. Reeder	Mammalia
	K. A. van der Blom	Mammalia
Research	C.L. Deeleman-Reinhold	Arachnida
associates	A.C. van Bruggen	Mollusca
	P.p. Chen	Heteroptera
	A. Diakonoff †	Microlepidoptera
	E.C. Dickinson	Aves
	C. Gielis	Microlepidoptera
	J. Huisman	Trichoptera
	J.A.J.M. Huijbregts	Coleoptera
	J.C. Koster	Microlepidoptera
	M.A. Lieftinck	Odonata
Students	S. van der Meije	Aves
	K. van Dorp	Lepidoptera
	D. Gassmann	Odonata
	J.-H. Megens	Lepidoptera
	F. Rozendaal	Aves

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INTRODUCTION

The large expedition to the Star Mountains in Dutch New Guinea in 1959 was the last biological expedition to Dutch possessions in SE Asia. After the administration of Dutch New Guinea had been handed over to the Indonesian government in 1963, no fieldwork was executed in Indonesia by staff of the (then) Rijksmuseum van Natuurlijke Historie for many years. Yet, interest in the fauna, stimulated by rich collections, did not wane. There was no general policy in the museum of focusing research on particular geographic regions, most staff having their own preferences for particular areas depending on the group of organisms under study. Particularly A. Diakonoff, world specialist in SE Asian Micro-lepidoptera, who retired in 1972 but remained connected to the museum as a research associate until his death in 1989, was very active in describing new taxa from SE Asia and publishing comprehensive reviews of the Micro-lepidoptera of New Guinea and the Philippines (not listed here because they were published before 1972). The first to do fieldwork again in the Malay Archipelago was J. Krikken who made an expedition to the Gunung Leuser area in N Sumatra in 1972 focusing mainly on dung beetles. This year is taken as the start for the present review. In 1980, R. de Jong did fieldwork on butterflies in the Philippines (Cebu, Leyte, Samar, Negros). Although the SE Asian fauna was studied in the framework of collection documentation (i.e. based on material already available in the collection), entomological fieldwork was still mainly concentrated in E Africa.

Project Wallace, the international expedition organized by the Royal Entomological Society of London at the occasion of its 150th anniversary, to N Sulawesi in 1985 was the start of a more concerted effort to continue studies of the entomological fauna of the Malay Archipelago. Four staff of the museum (C. van Achterberg, R. de Jong, J. Krikken and J. van Tol) and one associate (J. Huybregts) took part in the expedition. In addition, the student F. Rozendaal, at the time working with curator G. Mees (birds), joined the expedition for a couple of weeks. R.W.R.J. Dekker, not yet connected to the Leiden museum, was working on his PhD project on megapode birds in the same general area during (and before and after) the expedition. Based on the good experiences during Project Wallace, both in scientific and logistic sense, and the favourable prospects of continuing collaboration with Indonesian counterparts, including fieldwork, it was decided to focus a large part of the research on terrestrial animals on the fauna of the Malay Archipelago and adjacent areas. The area to be covered

Research area. For explanation, see text.

is known as the **Malesian Region**, extending from the Malay Peninsula through the Philippines and Indonesia to New Guinea (hence the name for the programme *Fauna Malesiana Terrestrica*), but for the purpose of the programme it was expanded to include Indo-China, Oriental China (lowland area south of latitude of Shanghai) and Thailand as well, since understanding of the history of the fauna of the Malesian Region is impossible without knowledge of the fauna of the southeastern part of the Asian continent. This extended Malesian Region (black in fig. 1) is the *priority research area*, i.e. the area of which the species are studied and where the fieldwork is carried out in the first place. Biogeographically this area is of much interest because of its very complex geological history, the transition and overlap of the faunas of the Oriental and Australian Regions and the highly endemic nature of parts of the fauna (see also below). Depending on the group under study taxa from the fauna of the Oriental and Australian Regions may also be included in revisionary studies to determine the systematic position of the taxa in the priority research area. However, fieldwork in this so-called *supplementary research area* (fig. 1) will be needed only exceptionally.

After Project Wallace a long-term research programme (to be concluded 1994) was formulated to do research **on the composition and evolution of the highly endemic fauna of Wallacea** (Sulawesi and satellite islands), including fieldwork on Sulawesi, Borneo, Java and Lesser Sunda Islands. Apart from the high level of endemism (e.g. species endemism in Wallacea exceeds 40% in butterflies, while for islands like Borneo and Java it is less than 10%) this area of interest because exchange between the faunas of the Oriental and Australian Regions had to go through it. Meanwhile, R.W.R.J. Dekker joined the staff of the museum, widening the up to then entomological focus of the programme. The programme was concluded with the publication of a booklet ("Gevangen op een eiland"), aiming at a broader audience, in 1994, describing the entomological research so far, but research publications based on collected material continued and will continue to appear for years to come.

After the Wallacea programme a new programme was formulated linked to the NWO funded programme "Pathways to New Guinea". For the sake of the museum programme the scope was widened **to faunal movements through the Malay Archipelago**, irrespective of the direction. Indeed, the evolution of the fauna of the Malay Archipelago cannot be understood without the massive faunal movements that took place between the Asian and Australian continents and that are partly correlated to the complex geological history of the area, with islands moving over enormous distances and land connections originating and disappearing repeatedly. Under the NWO programme one PhD student, D. Gassmann, was appointed in 1994 to do research on Odonata under supervision of J. van Tol. The appointment of another PhD student, H.-J. Megens (supervised by R. de Jong), under the NWO Priority Programme "Biodiversity in Disturbed Ecosystems" broadened the scope further with the influence of ecological change on the evolution of forest insects (i.c. a group of butterflies). Studying pathways of the fauna through the Malay Archipelago implied study of the faunas at and between both ends, continental Asia and New Guinea/Australia. The first expedition under this programme was to Halmahera (1995), but continuation of the fieldwork programme was hampered by the move to the new building (1997) and political unrest in E Indonesia. Finally, fieldwork was continued in 1999 with an expedition to N Vietnam, and again in 2001 to N and C Vietnam (during this expedition the scope of the research was extended to include molluscs) and in 2003 to N Vietnam (Microlepidoptera and molluscs only). The biennial scheme of fieldwork kept in the Wallacea programme, and which we hoped to continue in the Pathways programme proved difficult to keep up to due to developments in the museum beyond control of the programme participants.

Due to budgetary constraints in the museum execution of fieldwork will become more dependent on uncertain external funding in the years to come. This does not make it easy to formulate a long-term programme and keep to it. Yet, this note is an attempt to reconsider a plan for research on terrestrial animals in SE Asia up to 2008 (i.e. including the new 4-year agreement with the government). At the same time, it gives a review of the results obtained so far. Some fieldwork was carried out during holidays and on one's own budget. It is not different from working on publications during weekends and holidays and it underlines the drive of the people involved to do research on the fauna of SE Asia.

Although fieldwork is the most conspicuous aspect of the programme it must be emphasized that it is not the ultimate aim of the programme, but a means to reach the aims of improvement of the collections, filling in gaps in our knowledge and understanding the evolution of the particularly rich and complex fauna of SE Asia, related to its geological evolution. Thus, the programme is much wider geographically than the localities visited for fieldwork, ranging from continental SE Asia into the Pacific.

Summary of Results

The results of the programme are diverse. In the first place, the fieldwork has yielded important accessions to the collection (> 100,000 specimens and samples), filling in gaps (localities as well as species) and, in recent years, providing material that is suited for DNA analysis. Secondly, the studies of the various groups have resulted in descriptions of circa 1300 new species and higher taxa, revisions of genera and higher categories, and inventories of local faunas. These results have, again, been used for biogeographic analyses. Particularly the biogeography of the Sulawesi fauna is now known in a detail that is rare for other local faunas of comparable size. At the same time, insight in the evolution of the fauna in the entire area has greatly improved. The dissemination of the acquired insights has mainly been done by way of publications, in scientific journals, but also in more popular journals, see the list of publications in this report (a total of circa 9350 pages). In addition, they have formed the basis for numerous lectures at scientific meetings as well as at meetings for a wider audience. Although not a direct result of the programme the involvement of participants of the programme in the organisation of the International Symposium *Biogeography of SE Asia 2000, organisms and orogenesis*, held in Noordwijkerhout, 4-9 June 2000, and the presentation of the research carried out at the museum to an international audience must be mentioned. It was the second meeting of its kind, the first having been held at the Natural History Museum, London, in 1996 (a meeting with a narrower scope, concentrating on Wallacea, was held in Australia in 1999). An immaterial, yet important overall result of all these activities is the strengthening of the position of the museum as an important node in the international network of institutes where studies on the terrestrial fauna of SE Asia are carried out. It has also contributed to the acquisition of important private collections from the area under study, to a total of more than 150,000 specimens and samples.

CURRENT AND COMPLETED PROJECTS

The families of Hymenoptera of SE Asia (Malesia & Vietnam) (C. van Achterberg)
With more than 1 million species (including the undescribed species) the order Hymenoptera is the largest order of the animal kingdom. Currently 83 families are recognized, of which 59 are known from the Malesian area. There is only one up-to-date book on the families of the Hymenoptera (Goulet & Huber, 1993); a Fauna Malesiana Handbook and a general book will incorporate the latest developments and show a different view of the division of the order Hymenoptera into families. The project will be focused on: (1) constructing reliable keys (both to winged and wingless or brachypterous specimens!); (2) assembling information of additional literature; (3) summarizing the biological data. Collecting in Southeast Asia is needed to obtain more information about the distribution of the families.
Results: handbooks with keys to the families.

The Braconidae of Sulawesi and adjacent islands (C. van Achterberg)
For most Braconidae of Sulawesi no keys to genera or species exist. Since Project Wallace (1985) Braconidae from Sulawesi have been assembled for an overview of the braconid fauna of Sulawesi and adjacent islands. In 1997 the last material was collected and (together with BMNH material) a large collection of Braconidae is available for study. The project is focusing on: (1) constructing reliable keys; (2) revision of the genera and species in the area; (3) biogeography.
Result: review on the Braconidae of Sulawesi and adjacent islands.

Revision of the Palaeotropical Macrocentrinae (Braconidae) (C. van Achterberg)
The subfamily is a medium-sized subfamily of Braconidae, which is wide-spread and well speciated. Estimated number of species in the Palaeotropics is about 75 in 16 genera. Species live both in forest and in open habitats, including agro-systems and secondary growth. The project is focusing on: (1) constructing reliable keys (no existing keys!); (2) revision of the genera and species in the area; (3) biogeography. Some species (especially the ones occurring in secondary growth and agrosystems) are widely distributed and may be introduced inadvertantly by humans over the whole area (including the most remote Pacific Islands). Most other species have a medium-sized to small range and may give information about the processes in the past which resulted in the present distribution patterns. The land and water pattern is one of the possible drives behind the existing pattern. Collecting in Southeast Asia is needed to obtain more information about the distribution.
Results: revision of the subfamily for the Palaeotropical region.

The Butterflies of Sulawesi (R. de Jong)
Sulawesi has a highly endemic butterfly fauna, with c. 43% of the species not occurring elsewhere. Research on this fauna started 1985 and continued by fits and starts until the end of 2002. In a joint project with R.I. Vane-Wright (The Natural History Museum, London) a complete review of all species and subspecies was given (with notes on foodplants), as well as an in-depth analysis of the biogeography of the butterfly fauna in relation to the geological history of the Malay Archipelago (Vane-Wright & de Jong, 2003).

The Butterflies of Java (R. de Jong)
A field guide project. Preliminary work has been done on the families Hesperiidae, Papilionidae and Pieridae, but the project has been put on ice since 2000 to give priority to other matters.
As a logical consequence of this study an analysis of the biogeography of the butterflies as

well as the general biogeography of Java has been planned. Since the paper by Dammermann (1929) in Treubia, no update of the zoogeography of Java have been published, and with the much increased biological and geological knowledge of the island and the current cladistic approach to biogeography an update is highly relevant.

Pathways of the butterflies between continental Asia and Papuan-Australian Region (R. de Jong)

With the collision of the Australian and Asiatic plates in the Miocene the opportunities for dispersal between the two continental blocks increased considerably. Such pathways (in two directions) were evident in the hesperiid genus *Taractrocera* (see de Jong, 2001, and in press), but more such cases must be examined to establish how common or rare such dispersal scenarios are among butterflies. The entire group of genera to which *Taractrocera* belongs (the so-called *Taractrocera* group; Evans, 1949) is of interest in this connection, as are a number of other butterfly genera with members in Asia as well as in Australia. Success of colonization is not only dependent on the availablility of the foodplant(s), but of the right habitat. For many butterflies the relevant information is scant. In addition to supplying additional material for the collection and filling up gaps in the knowledge of the distribution of species, field work is needed to provide the essential background knowledge on habitat and foodplant preferences.

Directly connected to this project is the student project The Mystery of the Copper butterflies (see below).

Collecting insects at light (N Vietnam 1999, Sapa area).

Testing Gondwana origins with a molecular clock (R. de Jong)

The realization that butterflies have been moving between Asia and Australia since millions of years (see above) led to the question of the origin of so-called Gondwana distributions: taxa that are restricted to fragments of Gondwana. Such distributions are commonly considered the result of the break-up of Gondwana, although other scenarios are feasible

(de Jong, 2003). Competing scenarios differ in length of period of separation and, thus, can in principle be tested by a molecular clock. Of particular interest in this connection are the Hesperiidae, being the oldest family of butterflies. Coeliadinae (Old World tropics), *Celaenorrhinus* (pantropical) and the probable sister group relationship between the *Tagiades* group of genera (Old World tropics) and the *Telemiades* group of genera (New World tropics), but also putative Gondwana connections in other families are relevant. For this work fresh material collected during field work is most important to be sure to find sufficient nuclear DNA. Some material (kept in alcohol) has already been collected in 2001 (Vietnam), but much more is needed. The analysis of the Coeliadinae will be done jointly with Andrew Warren (State University Oregon).
This project is directly linked to the chapter by R. de Jong and C. van Achterberg in the museum book on the Dynamics of land-water distributions as a motor of evolution.

Understanding the diversity of the speciose tropical butterfly genus* Arhopala*, a molecular phylogenetic approach (H.-J. Megens, R. de Jong)
The genus *Arhopala* is restricted to the Oriental Region and the Papuan Subregion of the Australian Region. With c. 200 species it is the largest butterfly genus in the area. In Borneo c. 100 species occur, i.e. about 10% of the total butterfly fauna of Borneo. Most species are difficult to identify by morphological characters and these characters are insufficient in a phylogenetic analysis. For this reason a molecular approach was taken. This had the additional advantage that speciation events could be dated by way of a molecular clock. It was concluded that the genus underwent two periods of rapid speciation in the Miocene, resulting in a branching pattern that cannot be resolved satisfactorily. The radiation coincided with and probably was prompted by large-scale ecological changes, starting with the collision of the Australian plate with the Asiatic plate.
Most of the molecular work was executed in the joint laboratory of the museum and the University of Leiden (EEW), but part of it was done in the laboratory of Prof. Naomi Pierce, Museum of Comparative Zoology, Harvard University, Cambridge, Mass.
The phylogeny thus reconstructed was used in an analysis of the evolution of foodplant choice and ant association. For this, Hendrik-Jan Megens collaborated with Prof. Konrad Fiedler, Universität Bayreuth, who is an expert on the ecology of SE Asian Lycaenidae. There is no evidence of co-evolution of butterflies and host plants. There is, however, a certain correlation between intimacy of ant association and polyphagy: obligatory ant associated species are predominantly polyphagous.
For this ALW funded project (in the Priority Programme *Biodiversity of Disturbed Ecosystems*) Hendrik-Jan Megens also spent a couple of months in East Kalimantan to study the butterflies *in situ*. Part of the time there he was coached by R. de Jong.
The project started in 1996 and was completed with the defence of the thesis on 19 September 2002. The work will be (partly has been) published in four papers in high-ranking journals.

The Mystery of the Copper butterflies (K. van Dorp, R. de Jong)
An MSc project that has grown out of joints.
The Coppers form a well-defined subfamily of the Lycaenidae with some 140 species. They fall apart into two sections, one Holarctic but with extension through E Africa into S Africa, and surprisingly also represented in New Zealand with a couple of species, the other section occurring in the Oriental Region, in the high mountains of Papua New Guinea, and in the mountains of C America. This raises the question whether the division into two sections reflects relationships and, if so, how and when the ancestor(s?) of the

New Zealand species reached New Zealand and subsequently became extinct in SE Asia, the closest relatives seemingly living in C China. Because of the time question a molecular approach was taken. The DNA sequencing was done in the joint laboratory of the museum and the University of Leiden (IEBL) and in the laboratory of Prof. Naomi Pierce, Museum of Comparative Zoology, Harvard University, Cambridge, Mass., where Karen van Dorp spent two periods of two months. The project was started in 2002 and completed by the end of 2003. Even then the results could only be preliminary since a number of relevant taxa could not be analysed, but the results so far are highly interesting, suggesting several waves from Asia to the Australian Region. It has already lead to two lectures. The subject has the potential of a PhD project.

Microlepidoptera in SE Asia (E.J. van Nieukerken)
The Museum has a long tradition with research on Microlepidoptera in SE Asia. Early 20th century it obtained the important collection of P.C.T. Snellen, a Dutch lawyer, who described hundreds of Microlepidoptera from Indonesia (next to as many Macrolepidoptera), although he never visited the are himself. Next Alexej Diakonoff, curator of Lepidoptera form 1951 to 1972, worked extensively on the South-East Asian Microlepidoptera. He worked in the Netherlands Dutch Indies and Indonesia before his curatorship, and had a special interest for Tortricidae since his PhD in 1939. His work has enriched our collections enormously, which now count many hundreds of types, mostly from the Indonesian Archipelago. Landmarks in Diakonoff's research are the first concise works on the faunas of New Guinea and the Phillipines and a revision of the Tortricidae tribe Olethreutini of SE Asia.
Despite all this work, the old collections mainly contain material collected in secondary habitats, and only a small portion originates form primary forest. In recent expeditions, when more attention was paid to primary forests, a number of Microlepidoptera was collected, but special attention was only paid again from 2001 onwards, starting with the first expedition to Vietnam of curator E.J. van Nieukerken. The fact that every expedition unknown species are collected, and the lack of material from primary forests in the older material, indicate that collection of Microlepidoptera in this area is still much needed, the more now the forest is disappearing at an alarming rate. General Lepidoptera collectors and many amateurs tend to neglect the smaller moths and many families are therefore poorly collected. This is particular so for the leafmining families, now subject of research (Nepticulidae, Gracillariidae).

Nepticulidae of Eastern and Southern Asia (E.J. van Nieukerken)
The Nepticulidae are studied within the context of a larger project, entitled "Pattern and biodiversity of hostplant relationships in leafmining Lepidoptera". The rich SE Asian area probably contains many new Nepticulidae with intriguing host relationships, which can help us to understand better the phylogeny and co-evolution with the hostplants of several Nepticulidae taxa. In this it fills an important gap in the current knowledge. Work by others is carried out in the Neotropics and Australian region, and some publications are available on part of Africa.
In this large region Nepticulidae are still insufficiently known. However, material is now gradually becoming available from several parts of Asia. First we will concentrate on the inventory of this group in Asia, both in the field and in collections and in the formulation of future research-priorities.
Previous authors neglected the Nepticulidae, only 22 species have been described before, mostly from India and Sri Lanka, by Edward Meyrick and only one each of Thailand and Java.

A revision of these is in progress and can be published soon.
EvN collected at the borders of the area in Nepal (1981) and SW China (1984), the first results of which have been published recently (van Nieukerken & Liu, 2000). Other work published deals with species of Guam (van Nieukerken & van den Berg, 2003) and other papers on the fauna of China, Japan and Nepal are in preparation, in co-operation with several other researchers.
Collecting of Nepticulidae is a slow process: larvae have to be found on hostplants and reared into the adult stage. The advantage is that host data and immature stages are immediately known as well. In addition material is collected at light. For as many species as possible, tissue samples are collected for molecular analysis, either complete larvae, or legs of adults. Molecular work on this family is progressing in our molecular laboratory (co-operation with Dick Groenenberg), the first publications are expected in 2004.
Our work in SE Asia up to now has shown that a rich nepticulid fauna is present, with many abundant species in secondary habitats, and also an interesting fauna in primary forests, which is rather difficult to collect because of low densities and problems in collecting in canopies. The richest forest fauna probably occurs in mountainous forests and is partly associated with Fagaceae. In this respect collecting in mountainous areas of Malaysia, Thailand, Sabah and Java could be most rewarding after our work in Vietnam. In lowland forest and secondary habitats, *Stigmella* species feeding on Leguminosae, Malvaceae, Rubiaceae and several other families are dominant.

Biogeography of the Odonata of Sulawesi (J. van Tol)
The fauna of Sulawesi is characterized by a high percentage of island endemics. The fact that various speciose groups of Borneo do not occur in Sulawesi (e.g. the odonate family Platycnemididae) also indicates the long period of isolation in geological history. Groups of closely related species confined to Sulawesi frequently have small distributional ranges, defining areas of endemism. Island endemism and small distributional ranges within Sulawesi provide the tools for two levels of biogeographical studies. First, a reconstruction of the origin of the Sulawesi fauna, and second, a reconstruction of relationships of the respective areas of endemism within Sulawesi.
Widespread species occurring in Sulawesi are predominantly Oriental. Most island endemics have their presumed sister groups west of Sulawesi, although in some taxa the relationship between the Sulawesi and Philippine faunas are very close as well. The species of Oriental genera or species groups distributed trom the mainland of Southeast Asia to the Papuan

Collecting Odonata with butterfly net (N Sulawesi 1985).

region frequently show sistergroup relationship between the Sulawesi taxa and the area east of Sulawesi.
The project involved the revision of the rich material of Sulawesi Odonata available in Museum Naturalis, collecting new material, principally in regions of which new material was lacking, and making collections of taxa needing special attention. Manuscripts on the genera *Diplacina*, *Celebophlebia*, *Procordulia*, and *Protosticta* were published, while a manuscript on the genus *Libellago* will be submitted for publication soon. Revisions included also material from other islands of Indonesia, where needed for insight in phylogenetic relationships.
Long isolation and a turbulent geological history have obviously provided the opportunities for radiation of those groups that reached Sulawesi, e.g. the damselfly families Chlorocyphidae and Platystictidae. Taxon-area cladograms were based on phylogenetic relationships and distributions of the (micro)-species involved.
Relationships between areas of endemism based on lotic faunal elements largely coincide with reconstructions of the island's history based on geological data.

Taxonomy and biogeography of the Platystictidae of Southeast Asia (Odonata) (J. van Tol)
The Platystictidae is a family of damselflies confined to Southeast Asia and the northern part of South America. Three genera are recognised in the Oriental and Papuan regions, with c. 150 species in total. Nearly all species of these genera have small distributional ranges in the tropics, frequently confined to one valley only. Dispersal power is apparently low.
Descriptions of c. 30 new species in the collection of the Leiden museum, mainly from the Philippines, Wallacea and the Moluccas, are in preparation. The Philippines appears to be a region of significant radiation of one presumably monophyletic group of the genus *Drepanosticta*.
Based on various distinct characters, several presumably monophyletic groups have been identified. The distribution patterns of the species of such monophyletic groups, e.g. Sulawesi / Philippine islands or New Guinea / Moluccas / Philippine islands reflect the history of this family of damselfies, and will be compared with other groups of aquatic organisms and with the geological history of the area.

The origin of the Papuan damselflies of the subfamily Calicnemidinae (Odonata, Platycnemididae), and the role of West Malaysia and the Philippines (D. Gassmann, J. van Tol)
All extant species of the family Platycnemididae (Odonata) are confined to the OId World (Davies & Tobin, 1984; Bridges, 1991). Oligocene fossils of wings from Colorado, U.S.A., which were originally attributed to the Platycnemididae, almost certainly belang to the Coenagrionidae (Nel & Papazian 1990). Two subfamilies are recognized in the Platycnemididae, viz. the Platycnemidinae and the Calicnemidinae.
All species assigned to the Platycnemididae are inhabitants of running waters, and come from, depending on species, slowly moving lowland rivers to fast running mountain streams. Like many other species confined to stable habitats, platycnemidids tend to have a poor power of dispersal. Since poorly dispersing species usually have restricted ranges, they are particularly useful for defining areas of endemism.
The subfamily Platycnemidinae comprises the genera *Copera* Kirby and *Platycnemis* Charpentier only. The Calicnemidinae are known from Africa, Madagascar, the Mascarene Islands, Arabia, contiguous South-East Asia, the Ryukyus, the Philippines, many islands of Indonesia, and the Papuan region. The subfamily is, however, not known from the Lesser Sunda Islands, Sulawesi (Celebes), the Moluccas and Australia. The Papuan region is relative-

ly rich in genera of Calicnemidinae. At present 22 genera are recognized in the subfamily, of which nine are endemie to New Guinea, the Bismarcks, Louisiades and Solomon Islands.
The project is also a contribution to the phylogenetic and historic biogeographical studies of Malesian dragonflies. Up to now these studies have been focused on the species of Sulawesi (Van Tol, 1987 a,b, 1993 and in prep.).
The project has started in 1994 and has resulted in several publications.

Guide to the families of Coleoptera with emphasis on the fauna of the Indo-Australian Archipelago (J. Krikken)
The project aimed at producing a field guide in the Fauna Malesiana Field Guide series. It was discontinued in 1990 due to a change of activities and responsibilities.

Taxonomy and faunistics of the scarab beetles (Scarabaeoidea) of the Indo-Australian Archipelago (J. Krikken)
Emphasis of the project was on the c. 800 species of dung beetles of which a computerized, annotated checklist with bibliography is available, in addition to extensive material from the Sunda Islands and an extensive body of descriptive data. Collecting methods (bait traps, light traps) have yielded large amounts of beetles (and other insects), also of other groups, important for the other beetle project as well. Final aim of the project was a biogeographical analysis of the entire scarab fauna of the Indo-Australian Archipelago, but as with the foregoing project it had to be discontinued in 1990.

Arachnida
In the last decades not much research was carried out on Arachnida by curators of the museum, although some material was collected in the course of the years, particularly during the New Guinea expedition in the fifties. Several species have been described out of this material, and the collections contain therefore several types, including some old ones by Doleschall, van Hasselt and especially many mites by Oudemans, Lukoschus and van der Hammen.
Recently Museum Naturalis received an important gift: the largest existing collection of SE Asian spiders of Dr. Christa Deeleman-Reinhold. She still works actively on this collection, with many types, originating from many parts of SE Asia. A landmark is her recent book on forest spiders (Deeleman-Reinhold 2001).
One of our former colleagues (Peter Koomen, outside the collections and research section) is also working on Bornean spiders in his spare time. He reports that from Borneo no more than c. 400 species have been recorded, while several thousands can be expected (the relatively poor Dutch fauna has already more than 600 species).

Inventory of land molluscs in limestone areas (W.J.M. Maassen)
Land molluscs show a high diversity in limestone areas. In SE Asia such areas have yielded a wealth of small, morphologically very diverse, undescribed species. Limestone areas are digged off rapidly in SE Asia for the sake of the cement industry. In view of this serious threat sampling of areas that are still relatively intact is imperative. Since 1993 various areas in SE Asia (Sumatra, Sulawesi, Malaysia, Vietnam) have been sampled, mostly during holidays, but many areas are still awaiting investigation. The final product will be a checklist of the land molluscs of SE Asia, in cooperation with J. Vermeulen (Singapore) and M. Schilthuizen (Kota Kinabalu). Further, illustrated guides like the Fauna Malesiana Guide to Land Snails of Bali, are on the programme.

Megapode phylogeny and distribution (R.W.R.J. Dekker)
Intra- and interfamilial relationships of megapodes, distribution patterns, and the evolution of megapode incubation strategies have been studied and discussed in publications by Brom & Dekker (1992), Dekker (1989), Dekker & Brom (1992), and Jones, Dekker, & Roselaar (1995). Several questions, such as dispersal of megapodes through the Indo-Australian region remained unanswered due to lack of data. More recently, DNA-analysis has revealed new insight about megapode relationships. Within the "Dynamics of land-water distribution as a motor of the evolution" programme and book on this subject which is now in preparation, Dekker will publish a paper about the (historical) distribution patterns and evolution of megapode incubation strategies.
Also, as chairman of the Megapode Specialist Group Dekker coordinates much of the international research (both scientific and conservation) on this family.

Dissecting and preparing birds in the field (N Vietnam 1999, Sapa area).

Birds of the Oriental Region (R.W.R.J. Dekker)
Oriental avian taxa, starting with the passerines, will be reviewed and published in two different ways: 1) a synopsis (rather like Vaurie's Birds ofthe Palearctic Fauna), and 2) a series of "Systematic notes on Asian birds" which will be published in special issues of Zoologische Verhandelingen, Leiden (from 2000 to 2003, the first 40 papers have been published in four different volumes). This project is in cooperation with the Trust for Oriental Ornithology (UK), especially with E.C. Dickinson, Research Associate of the National Museum of Natural History, who is co-author and co-editor. Depending on the taxa under review, international specialists on a particular taxon will be invited as co-authors for the "Systematic notes on Asian birds" series. This work should be considered as the scientific preparation for the (planned though not yet substantiated) production of the synopsis and possibly a series of handbooks on Asian birds. Natural history collections worldwide, including the Leiden collection, will be studied for this purpose.

OUTLINE OF A NEW PROGRAMME

The emphasis on biogeography, so evident in the previous programmes, renders the programme less flexible in geographic sense, and in case of fieldwork, liable to local political and social developments. This combined with a more pragmatic view on securing funding for fieldwork promps to an adjustment of the overall focus to a lesser degree of local constraints. It does not necessarily imply new projects. Current projects, not yet completed or even just started, can easily be accomodated in the newly formulated programme. As a new theme has been chosen:

Evolution of patterns of terrestrial biodiversity in SE Asia.
The Malay Archipelago is one of the world's most important hot spots (area with disproportionally high biodiversity) of terrestrial biota. This diversity is not evenly distributed. To understand why there are so many species and why they are not evenly distributed asks for a multidirectional approach, in accordance with the diversity in size, mobility, ecological constraints, history, etc. The diversity in some groups is closely related to soil composition and structure (e.g. molluscs) and their evolution may have been influenced by microhabitat fragmentation, other groups, like dragonflies, are dependent on water (where they may occupy very restricted niches), again other groups, like Lepidoptera and parasitic wasps, are dependent on particular hostplants or host insect larvae, while relatively large animals like birds are constrained by very different factors. At the same time, all these groups may have a very different rate of evolution, be it speciation or molecular diversity. With evolution, the aspects of time and space (and thus, biogeography) come into picture. A study that would seamlessly fit into this programme is the project of H.-J. Megens mentioned above that deals with evolution rate, habitat disturbance in deep time, dependence on foodplants, etc. Evidently curators do not have as much time as PhD students for research, and consequently the projects carried out will have a more limited scope. But contrary to the previous programmes, they will be less dependent on particular areas and more tailored to the various groups. In addition to studies dealing with processes underlying biodiversity (speciation, dispersal, extinction, co-evolution), there will also be projects dealing with biodiversity assessments of particular areas, either to be used in a conservation framework, or as a start for study of underlying processes. At the same time several current projects will be continued under the new programme to secure their completion.

Dependent as it is on political, economic and other local circumstances, it is difficult to plan fieldwork far ahead. In general, fieldwork will be executed every second year. For the near future the following areas are taken into consideration.

Gunung Lumut Biodiversity Assessment, E Kalimantan (team)
Naturalis has been invited by Tropenbos International (TBI) to help inventory a relatively undisturbed area of lowland rainforest in the Pasir District, south of Balikpapan. The fieldwork was planned to take place in September/October 2004 with a team consisting of C. van Achterberg, C. van den Berg, R.W.R.J. Dekker, R. de Jong, W.J.M. Maassen, E.J. van Nieukerken, J. van Tol, and R. de Vries, working on (groups of) Hymenoptera, Lepidoptera, Odonata, molluscs and birds. The fieldwork should result in a report describing the diversity of the groups studied and their "conservation value" by the end of 2004. However, at the time of writing there were still budgetary problems between TBI and Indonesian counterparts to be solved, and it has been decided to postpone the expedition.

Mt. Malindang Biodiversity Assessment **(Mindanao)** (entomologists)
Naturalis has been invited by the Philippines-Netherlands Biodiversity Research Programme

for Development in Mindanao to help make a biodiversity assessment of the Mt Malindang area on the Philippine island of Mindanao, from the coast to the top. In addition to inventorying studies the programme has an educational aspect. In this context Jan van Tol paid a short visit to the area in March 2004 (two weeks). More extensive fieldwork will possibly be carried out in 2005. Expenditures are paid for by the programme.

Vietnam (team)
After having visited several areas in the north and central parts of the country (1999, 2001, 2003) our attention is focused on the southern part where the fauna is different and has a closer affinity to the fauna of Malaysia and the Sunda Islands. At the time of writing it was not yet certain whether fieldwork could be executed still in 2004.

The following projects have been formulated for the period 2004-2008:

The families of Hymenoptera of SE Asia (Malesia (Fauna Malesiana Handbook) & Vietnam) of the world (C. van Achterberg)
Continuation.

The Braconidae of Sulawesi and adjacent islands (C. van Achterberg)
Continuation.

Revision of the Palaeotropical Macrocentrinae (Braconidae) (C. van Achterberg)
Continuation.

Time estimates of historical events in Malesia by applying a molecular clock in butterflies (R. de Jong)
This is a continuation of the Gondwana project described above, but no longer focusing on possible Gondwana elements. Instead it attempts to date historical events in general. It will concentrate on the hesperiid subfamily Coeliadinae in the first place, but depending on material coming available (fieldwork) the genus *Celaenorrhinus* and other groups are of interest. There is a time constraint on the evolution of *Celaenorrhinus*. As far as known the species are dependent on Acanthaceae for larval food. This plant family is supposed to have originated in Middle Eocene. As a consequence the pantropical distribution of the genus cannot be attributed to a former continuous distribution across Pangea.

Evolution of the Copper Butterflies (Lycaeninae) (R. de Jong, PhD student)
One of the results of the project *The Mystery of the Copper Butterflies* described above is that there has been several waves of dispersion from the Asian mainland into Malesia (finally reaching New Zealand). An application for a PhD project will be submitted with ALW before long. If granted the project can be carried out in full by a graduate. If not granted aspects of it will be included in the previous project.

The Butterflies of Java (R. de Jong)
This project (see previous chapter) will be kept on ice until 2006. It is expected to be completed after the retirement of R. de Jong (May 2007).

Microlepidoptera in SE Asia (E.J. van Nieukerken)
Continuation.

Nepticulidae of Eastern and southern Asia (E.J. van Nieukerken)
Continuation.

Checklist of the Lepidoptera of SE Asia (E.J. van Nieukerken, R. de Jong)
There is much information on SE Asia Lepidoptera (descriptions, distributions, foodplants, etc.) available, but much of it is difficult to access having been published in a wide variety of books and journals. Apart from the published information, collections contain a wealth of data still incompletely tapped. Plans are being developed, in collaboration with colleagues abroad, to make this information electronically available (starting with published information), in agreement with the requirements of GBIF.

Biogeography of the Odonata of Sulawesi (J. van Tol)
Continuation.

Taxonomy and biogeography of the Platystictidae of Southeast Asia (Odonata) (J. van Tol)
Continuation.

Inventory of land molluscs in limestone areas (W.J.M. Maassen)
Continuation.

Megapode phylogeny and distribution (R.W.R.J. Dekker)
Continuation.

Birds of the Oriental Region (R.W.R.J. Dekker)
Continuation.

FIELDWORK

Fieldwork is essential to keep the collections updated, to fill up gaps, to improve the quality of the preserved material, and in general, to enhance the value of the collection. Recently fieldwork has also become important to get fresh material suitable for DNA analysis. Since we wish to study the original fauna of the area, i.e. the fauna as it was before large-scale disturbances by human activities took their toll, the work is often carried out in remote areas that may be difficult to reach and where subsistence is very basic. All means of transport are used, including canoes, horses, trucks, porters and of course our own feet to bring ourselves and the equipment as far away from civilisation as possible. Support from local authorities is indispensable and fieldwork is always carried out in collaboration with counterpart institutes (see next chapter) and with counterparts in the field. Since practically all undisturbed areas are under threat, it is important to keep at least voucher specimens of the fauna in museum collections before the habitat is completely destroyed. In the field a variety of equipment is used to collect animals, including butterfly nets, bait traps, Malaise traps, pitfall traps, mist nets, mercury vapour lamps operating on a generator, etc. Below the expeditions are listed in chronological order with areas visited and part-icipants from the side of the museum to give an impression of the frequency and the area covered. Also collecting trips made in private time and with private funds have been included.

Leech bites and other inconveniences during fieldwork (N Vietnam 1999, Sapa area).

1972 Sumatra: Gunung Leuser area. J. Krikken.
1980 Philippines: Cebu, Leyte, Samar, Negros. R. de Jong
[1981 Nepal, E.J. van Nieukerken]
[1984 S. China: Yunnan, E.J. van Nieukerken]
1985 Sulawesi Utara: Dumoga Bone National Park, Gn. Mujat, Gn. Ambang, Tangkoko-Dua Saudara National Reserve, nr Malibagu, Gn Mogogonipa. C. van Achterberg, [J. Huijbregts,] R. de Jong, J. Krikken, J. van Tol, [R.W.R.J. Dekker].
Sulawesi Tengah: Lore Lindu National Park. C. van Achterberg, J. Krikken, J. van Tol.
Sulawesi Selatan: Bantimurung, Malino area. R. de Jong, J. van Tol.
1986 Sabah (N Borneo): Kinabalu National Park, Nabawan area, Long Pa Sia area. J. Huisman.
1987 Sabah (N Borneo): Kinabalu National Park, Danum Valley Protection Area, Sandakan area, Crocker Range, Nabawan area, Long Pa Sia area. C. van Achterberg, J. Huisman, R. de Jong, J. Krikken, E. Rombaut, J. van Tol.
1989 Sulawesi Tengah: Banggai Peninsula. C. van Achterberg, J. Krikken, J. van Tol.
Sulawesi Tenggara: Kendari area, Gunung Watuwila, Aopa, Moramo Falls, Pulau

Buton, Pulau Kabaena. C. van Achterberg, K.A. van der Blom, J. Huisman, R. de Jong, J. Krikken, C. Lepelaar, R. de Jong.

1990 Lombok. R. de Jong.
Sulawesi Selatan: W Toraja (Mamasa area). R. de Jong.

1991 Lombok. C. van Achterberg, R. de Jong, D. Reeder.
Australia: Northern Terr. (Darwin, Kakado, Litchfield). C. van Achterberg, R. de Jong.
Sulawesi Selatan: W Toraja (Mamasa area), E Toraja (Palopo-Rantepao area), Bantimurung area, Wotu area, Gn Lompobatang, and various other places. C. van Achterberg, R. de Jong, D. Reeder, J. van Tol, R. de Vries.
Bali. C. van Achterberg.
Thailand: Chang Mai, Rattanakosin NP, Krabi. R. de Jong.

1992 Great Nicobar (India). R.W.R.J. Dekker.
Java (West, Central), Bali, Flores. R. de Jong.

1993 Sulawesi Selatan: Wotu, Danau, Matana, Palopo and Rantepao area, Gunung Rantemario. J. van Tol.
Kep. Sula: Mangole. C. van Achterberg.
Sumbawa: Gn Tambora. C. van Achterberg, R. de Jong.
Bali, Lombok, Irian Jaya (Biak, Arfak Mts). R. de Jong.
Sumatra: North Sumatra (Leuser, Tinggi Radja, Berastagi). W.J.M. Maassen.

1994 Sumatra: Bukit Lawang, nr Gn Leuser National Park. C. van Achterberg.

1995 Halmahera. C. van Achterberg, B. van Bekkum-Ansari, R. de Jong, J. van Tol.
Ternate, Tindoro. B. van Bekkum-Ansari, R. de Jong, J. van Tol.
Ambon. B. van Bekkum-Ansari, R. de Jong, J. van Tol.
Kep. Sula: Mangole, Taliabu. C. van Achterberg.
Sulawesi Selatan: Bantimurung, Malino, Rantepao, Bulusaraung.
C. van Achterberg, W.J.M. Maassen.

1996 Tanimbar. R.W.R.J. Dekker.
Lombok, Komodo, Flores. R. de Jong.
Sumatra: North Sumatra (Aceh, Leuser). W.J.M. Maassen.

1997 Sulawesi Tengah: Lore Lindu National Park. J. van Tol.
Sulawesi Selatan: Bulusaraung: C. van Achterberg, R. de Vries.
Seram: Manusela N.P. C. van Achterberg, R. de Vries.
Kalimantan: Wanariset area. R. de Jong, J.-H. Megens.
Sumatra: W.J.M. Maassen.

Transport into the interior of SE Sulawesi (Watuwila area, 1989).

1999 Vietnam: Sapa/Fan Si Pan area, Cuc Phuong National Park, Doc Theu. C. van Achterberg, K.A. van der Blom, R.W.R.J. Dekker, H. Grouw, R. de Jong, S. van der Meije, R. de Vries.
S China: Tianmu Mt. C. van Achterberg.
Malaysia: Perak, Perlis, Langkawi Islands, Perinthian Islands. W.J.M. Maassen.

2001 Vietnam: Phon Dien National Park, Bach Ma National Park, Tam Dao National Park, Chu Mom Ray National Reserve, Cuc Phuong National Park, Halong Bay, Sapa/Fan Si Pan area (Hoang Lien Son National Park). C. van Achterberg, R. de Jong, J.C. Koster, W.J.M. Maassen, E.J. van Nieukerken, J. van Tol, R. de Vries.
Sulawesi Utara: Minahassa. W.J.M. Maassen.
Pacific: Hawaii, Cook, Tonga, Samoa, Fiji, Vanuatu, New Zealand, Tahiti, Easter island. R.W.R.J. Dekker

2002 Sulawesi Selatan: Lake Matanna, Lake Wotuti, etc. W.J.M. Maassen.

2003 Vietnam: Fan Si Pan area, Tam Dao National Park, Cat Ba National Park. C. van den Berg, E.J. van Nieukerken. Lu Puong National Park, islands in Ha Long Bay area, W.J.M. Maassen.

CO-OPERATION

The scientists of the museum do not work in isolation, but are part of an extensive network of researchers. Below a non-exhaustive list is given of fellow-researchers with whom there are (or have been) more than occasional contacts. In addition, there are contacts with institutes which, in one way or other, are involved in the execution of fieldwork or in facilitating other aspects of research, in the countries where fieldwork has been conducted as well as elsewhere.

Scientific co-operation (including help with identification; alphabetically)

Ackery, P.R. (The Natural History Museum, London, England) (Lepidoptera)
Belokobylskij, S.A. (Zoological Institute, St Petersburg, Russia) (Hymenoptera)
Deeleman-Reinhold, Christa (Ossendrecht, Netherlands) (Arachnida)
Dickinson, Edward C. (Trust for Oriental Ornithology, Eastbourne, England) (Aves)
Duffels, J.P. (ZMA, Amsterdam) (Cicadidae)
Fischer, M. (Natural History Museum, Vienna, Austria) (Hymenoptera)
Gielis, C. (NNM, Leiden) (Lepidoptera)
Hämäläinen, Matti (University of Helsinki, Finland) (Odonata)
Hall, Robert (University College, London, England) (plate tectonics)
Holloway, Jeremy D. (The Natural History Museum, London, England) (Lepidoptera)
Horak, Marianne (Australian National Insect Collection, Canberra) (Lepidoptera)
Huisman, Jolanda (Minneapolis, USA) (Trichoptera)
Igarashi, Suguru (Yokohama, Japan) (Lepidoptera)
Kojima, J. (Ibaraki University, Mito, Japan) (Hymenoptera)
Larsen, Torben B. (Hanoi, Vietnam) (Lepidoptera)
Liu Youqiao (Beijing, China) (Lepidoptera)
Lvovsky, Alexander (St Petersburg, Rusland) (Lepidoptera)
Maruyama, Kyoshi (Kawasaki, Japan) (Lepidoptera)
Monastyrskii, Alexander (Vietnam-Russia Tropical Centre, Hanoi, Vietnam) (Lepidoptera)
Müller, Roland A. (St Gallen, Switzerland) (Odonata)
Nässig, Wolfgang (Senckenberg Museum, Frankfurt a/Main, Germany) (Lepidoptera)
Orr, Bert (A.G.), (Caloundra, Qld, Australia) (Odonata)
Rozendaal, Frank G. (De Bilt, Netherlands) (Odonata; Aves)
Simbolotti, G. (University of L'Aquila, Italy) (Hymenoptera)
Sinev, Sergey Yu. (St Petersburg, Rusland) (Lepidoptera)
Tennent, W. John (Norfold, England) (Lepidoptera)
Treadaway, Trig (C.G.) (Senckenberg Museum, Frankfurt a/Main, Germany) (Lepidoptera)
Vane-Wright, Dick (R.I.) (The Natural History Museum, London, England) (Lepidoptera)
Vermeulen, Jaap (?Botanical Garden, Singapore) (Mollusca)
Vos, Rob de (Zoologisch Museum Amsterdam) (Lepidoptera)
Warren, Andrew (University of Oregon, USA) (Lepidoptera)
Wells, Alice (Canberra, Australia) (Trichoptera)
Yakovlev, Roman V. (Barnaul, Russia) (Lepidoptera)
Yata, Osamu (Kyushu University, Fukuoka, Japan) (Lepidoptera)
Zolotuhin, Vadim V. (Uljanovsk State Pedagagical University, Uljanovsk, Russia) (Lepidoptera)

Institutes

National Herbarium - Leiden branch, Leiden, The Netherlands
Zoologisch Museum, University of Amsterdam, Amsterdam, The Netherlands
Tropenbos International, Wageningen, The Netherlands
Universitas Haluoleo, Kendari, Sulawesi Tenggara, Indonesia
Universitas Hasanuddin, Makassar, Sulawesi Selatan, Indonesia

Universitas Sam Ratulangi, Manado, Sulawesi Utara, Indonesia
Lembaga Ilmu Pengetahuan Indonesia (LIPI), Jakarta, Java, Indonesia
Museum Zoologicum Bogoriense, Bogor/Cibinong, Java, Indonesia
Insitute of Ecology and Biodiversity Rersearch (IEBR), Hanoi, Vietnam
Kew Gardens, Richmond, England
Royal Entomological Society, London, England
Yayasan Sabah, Kota Kinabalu, Sabah, E Malaysia

International cooperation (SE Sulawesi. Watuwila area, Centipede camp, 1989).

Fauna Malesiana Foundation

The Fauna Malesiana Foundation was founded to co-ordinate and support the activities of Dutch and Indonesian zoological institutions in the field of zoological diversity in Malesia. The general objective was defined as "the production of a scientific reference of the zoo-diversity of Southeast Asia, or the biogeographical entity denoted Malesia". The initiative received a significant grant from the Royal Netherlands Academy of Arts and Sciences within the framework of the Scientific co-operation between Indonesia and the Netherlands in 1995-1998 for the *Fauna Malesiana Handbook and Field Guide project.*

As a demand-driven project, it started with a knowledge assessment study in 1995. The results of this study were presented in two internal reports, viz. *Capturing diversity* and a *Reference Guide*. In the first year, also a *Handbook and Field Guide project: Precursor 1996* was produced, consisting of typical examples of texts and illustrations, and taken from the manuscripts for the first volumes. Based on these reports and the precursor, a group of experts from Indonesia and various European countries decided on the format, criteria and priorities for the Handbook and Field Guide Project for the years 1996-1998. Basically, this guideline is still being followed for setting the priorities up to today.

The project has resulted two series of publications, the Fauna Malesiana Handbooks (Brill Publishers, Leiden) and the Fauna Malesiana Field and Study Guide Series (various publishers, Backhuys Publishers, Leiden up to now). Both series are still being continued. Handbooks on the aquatic Hemiptera of Malesia, and Study guides for the Odonata of New Guinea and Collembola of Malesia are in the editorial process.

The project has proved to be a stimulus for scientific and logistic co-operation of Dutch institutions as the National Museum of Natural History at Leiden, the Zoological Museum of the University of Amsterdam on one side, and the Museum Zoologicum Bogoriense (now Cibinong, Indonesia) and various Indonesian universities, particularly those on Sulawesi.

Museum Naturalis has contributed significantly to the success of this project, e.g. by allocating funding for an editor and other contributions in kind.

Publications of the Stichting Fauna Malesiana

Holloway, J., Peggie, D. & Kibby, G., 2001. Families of Malesian moths and butterflies. – Fauna Malesiana Handbook 3: i-xii + 1-455.

Leis, J.M. & Carson-Ewart, B.M., 2000. Larvae of Indo-Pacific coastal fishes. – Fauna Malesiana Handbook 2: 1-xix + 1-850 [second edition 2004].

New, T.R., 2003. The Neuroptera of Malesia. – Fauna Malesiana Handbook 4. Brill Publishers: i-viii + 1-204.

Willemse, L.P.M., 2001. Fauna Malesiana Guide to the pest Orthoptera of the Indo-Malayan region. – Fauna Malesiana Field and Study Guide series 2. Backhuys Publishers, Leiden: i-ix + 1-150.

Oosterbroek, P., 1998. Families of Diptera of the Indo-Malaysian archipelago. – Fauna Malesiana Handbook 1: i-xii + 1-227.

Vermeulen, J., & Whitten, A.J., 1998. Land snails of Bali. – Fauna Malesiana Field and Study Guide Series 1. Backhuys Publishers, Leiden: i-ix + 1-164.

COLLECTION IMPROVEMENT AND EXPANSION

The collections, which for historical reasons already had a bias towards SE Asia, have benefited from the focus on SE Asia in two ways. First, the old collections had to be re-examined, re-identified, the nomen-clature had to be updated, and some parts of the collections were re-organized, if only to fit in the newly collected material. Second, many gaps could be filled, be it in species representation or in distribution. Working on the old collections it was found that the coverage of the area had been very uneven. For instance, an attempt to estimate the decline in the butterflies of Java over the last, say, 150 years in relation to the disappearance of lowland forests, failed when became apparent that 80-90% of all butterflies from Java in the collection originated from very few localities, and mainly from W Java.

The fieldwork expanded the collections with an estimated total of > 100,000 specimens and samples. The processing of so much material (setting, labelling, sorting, identification) before it can be incorporated in the collections is a huge task. Identification can be difficult and very time-consuming, except for some well-known groups. Often the identification, particularly of badly known groups, prompts to a revision of a whole species group, genus or even higher category (as can easily be seen from the list of publications). At the same time, undescribed species are found. Their description must be based on an extensive literature search and on careful comparison and examination of related taxa, in the collection as well as in other museums. Thus, it can take many years before a particular problem has been solved. Evidently, this is a problem encountered in the study of any group, but insects, with their million or so described species, and millions of undescribed species, are particularly susceptible to this problem.

Apart from material collected during fieldwork the collections grew considerably by the acquisition of some private collections that were awarded to the museum because of its central position in the study of the fauna of SE Asia. Foremost among these in recent years were the collections of Deeleman-Reinhold (the largest collection of SE Asian spiders in existence, c. 25,000 samples), Müller (Philippines; c. 40,000 Odonata, c. 23,000 Lepidoptera, c. 1500 other insects, c. 1100 birds) and Hämäläinen (Thailand and other countries in SE Asia; c. 50,000 insects, mainly Odonata).

The value of the collection is particularly enhanced by the addition of type material. A list is given of new taxa from SE Asia described since 1972 by museum staff and research associates, and by other collaborators based on material in the museum collection. Of almost all taxa type material is in the museum collection.

The new taxa are divided among the higher categories as follows.

Hymenoptera	333
Lepidoptera	378
Odonata	72
Trichoptera	55
Hemiptera	49
Dermaptera	5
Coleoptera	73
Araneae	143
Mollusca	179
Aves	6
Pisces	5
total	**1298**

Hymenoptera: Braconidae

Acanthormius brevidentatus van Achterberg, 1995
Acanthormius curvidentatus van Achterberg, 1995
Acanthormius dentifer van Achterberg, 1995
Acanthormius kabaenensis van Achterberg, 1995
Acanthormius royi van Achterberg, 1995
Acanthormius sabahensis van Achterberg, 1995
Acanthormius sumatrensis van Achterberg, 1991
Acanthormius yasirae van Achterberg, 1995
Acrocerilia pachynervis van Achterberg, 1989
Adeshoides asulcatus van Achterberg, 1983
Aleiodes convexus van Achterberg, 1991
Aleiodes takasuae van Achterberg, 1985
Aleiodes yasirae van Achterberg, 1995
Amyosoma flavistigma van Achterberg, 1996
Aneurobracon annulipes van Achterberg, 1990
Aneurobracon notaulicus van Achterberg, 1990
Apotosoma latimarginale van Achterberg, 1984
Apotosoma melateles van Achterberg, 1984
Aridelus basalis Chen & van Achterberg, 1997
Aridelus confusus Chen & van Achterberg, 1997
Aspidobracon hesperivorus van Achterberg, 1984
Aspidobracon noyesi van Achterberg, 1984
Aulacocentrum confusum He & van Achterberg, 1994
Aulacocentrum seticellum van Achterberg & He, 1994
Aulonotus partimstriatus Fischer, 2000
Aulosaphes convergens van Achterberg, 1995
Aulosaphes rasuli van Achterberg, 1995
Aulosaphes semifasciatus van Achterberg, 1995
Aulosaphes vechti van Achterberg, 1995
Aulosaphoides breviceps van Achterberg, 1995
Aulosaphoides brevitarsus van Achterberg, 1995
Aulosaphoides robberti van Achterberg, 1995
Austrozele calvatus van Achterberg, 1993
Blacus albiventris van Achterberg, 1988
Blacus alternipes van Achterberg, 1988
Blacus angichorus van Achterberg, 1988
Blacus annulatus van Achterberg, 1988
Blacus antennalis van Achterberg, 1988
Blacus apaches van Achterberg, 1976
Blacus apicalis van Achterberg, 1976
Blacus artomandibularis van Achterberg, 1976
Blacus bicolor van Achterberg, 1988
Blacus brevicarinatus van Achterberg, 1988
Blacus brevichorus van Achterberg, 1988
Blacus brevicrenulatus van Achterberg, 1988
Blacus comatus van Achterberg, 1988
Blacus diversus van Achterberg, 1988
Blacus epomidus van Achterberg, 1988
Blacus fulviceps van Achterberg, 1988
Blacus fuscicoxis van Achterberg, 1988
Blacus fuscinervis van Achterberg, 1988
Blacus fuscitarsis van Achterberg, 1988
Blacus fuscitibialis van Achterberg, 1988
Blacus glaber van Achterberg, 1976
Blacus hadrolophus van Achterberg, 1988
Blacus hemicarinatus van Achterberg, 1988
Blacus hemicastaneus van Achterberg, 1988
Blacus incarinaticeps van Achterberg, 1988
Blacus javensis van Achterberg, 1976
Blacus linearis van Achterberg, 1988
Blacus mellicornis van Achterberg, 1988
Blacus mellistigmus van Achterberg, 1988
Blacus mellitarsis van Achterberg, 1988
Blacus mischocytus van Achterberg, 1976
Blacus nigrocephalus van Achterberg, 1988
Blacus obscuripes van Achterberg, 1988
Blacus parallelus van Achterberg, 1988
Blacus parastrictus van Achterberg, 1988
Blacus paucicrenulatus van Achterberg, 1988
Blacus rectinervis van Achterberg, 1988
Blacus setosifrons van Achterberg, 1988
Blacus setosus van Achterberg, 1988
Blacus signicornis van Achterberg, 1988
Blacus signifer van Achterberg, 1988
Blacus soror van Achterberg, 1988
Blacus tenuipes van Achterberg, 1988
Blacus tuberculifer van Achterberg, 1988
Blacus ungularis van Achterberg, 1988
Blacus whartoni van Achterberg, 1988
Bracon psyllivorus van Achterberg, 2000
Brulleia brunnea van Achterberg, 1983
Brulleia nigra van Achterberg, 1983
Brulleia obereae Chen & van Achterberg, 1993
Brulleia subtilirugula He & van Achterberg, 1993
Brulleia townesi van Achterberg, 1983
Brulleia tricolor van Achterberg, 1983
Canalicephalus devriesi van Achterberg, 2002
Canalicephalus luteoscapus van Achterberg, 2002
Canalicephalus minor van Achterberg, 2002
Canalicephalus quickei van Achterberg, 2002
Canalicephalus rhinoides van Achterberg, 2002
Canalicephalus robustus van Achterberg, 2002
Canalicephalus rugifrons van Achterberg, 2002
Canalicephalus semiglaber van Achterberg, 2002
Canalirogas acutus van Achterberg, 1996
Canalirogas agilis van Achterberg, 1996
Canalirogas balgooyi van Achterberg & Chen, 1996

Canalirogas fuscipalpis van Achterberg, 1996
Canalirogas heijningeni van Achterberg, 1996
Canalirogas infuscatus van Achterberg, 1996
Canalirogas kahonoi van Achterberg, 1996
Canalirogas maculatus van Achterberg, 1996
Canalirogas nigratus van Achterberg, 1996
Canalirogas tuberculatus van Achterberg, 1996
Canalirogas yvonnae van Achterberg, 1996
Carinitermus reticulatus van Achterberg, 2000
Centistes brevitarsus Chen & van Achterberg, 1997
Centistes carinatus Chen & van Achterberg, 1997
Centistes flavus Chen & van Achterberg, 1997
Centistes guizhouensis Chen & van Achterberg, 1997
Centistes intermedius Chen & van Achterberg, 1997
Centistes minutus Chen & van Achterberg, 1997
Centistes ocularis Chen & van Achterberg, 1997
Centistes punctatus Chen & van Achterberg, 1997
Centistes rufus Chen & van Achterberg, 1997
Centistes semiglabratus Chen & van Achterberg, 1997
Centistes striatus Chen & van Achterberg, 1997
Centistes yunnanus Chen & van Achterberg, 1997
Charmon brevinervis van Achterberg, 1979
Chelonus sinensis He, Chen & van Achterberg, 1997
Conobregma brevinervis van Achterberg, 1995
Conobregma brevistigmus van Achterberg, 1995
Conobregma cometes van Achterberg, 1995
Conobregma masneri van Achterberg, 1995
Conobregma stigmaticum van Achterberg, 1995
Conobregma sulaense van Achterberg, 1995
Cordibracon setorae van Achterberg, 1989
Cornutorogas maetoi van Achterberg, 2004
Cornutorogas javensis van Achterberg, 2004
Cornutorogas sumatrensis van Achterberg, 2004
Cosmophorus adebratti van Achterberg, 2000
Cosmophorus alboterminalis
Quicke & van Achterberg, 2000
Cosmophorus brevicaudatus van Achterberg, 2000
Cosmophorus choui van Achterberg, 2000
Cosmophorus curvatus van Achterberg, 2000
Cosmophorus dentifer Quicke & van Achterberg, 2000
Cosmophorus depressus van Achterberg, 2000
Cosmophorus fusciceps Quicke & van Achterberg, 2000
Cosmophorus harrysi van Achterberg, 2000
Cosmophorus infuscatus van Achterberg, 2000
Cosmophorus mesocaudatus van Achterberg, 2000
Cosmophorus reticulatus van Achterberg, 2000
Cosmophorus rugitergitus
Chen & van Achterberg, 1997
Cosmophorus taiwanensis van Achterberg, 2000
Darnilia flagellaris van Achterberg, 1989
Diachasmimorpha feijeni van Achterberg, 1999
Distilirella curvinervosa van Achterberg, 1979
Ecnomios brevitarsus van Achterberg, 1995
Ecnomios infuscatus van Achterberg, 1995
Ecnomios yasiri van Achterberg, 1995
Eleonoria Braet & van Achterberg, 2000
Eleonoria hei van Achterberg & Chen, 2000
Eleonoria infuscata van Achterberg, 2000
Eleonoria mesembria Braet & van Achterberg, 2000
Eleonoria philippinica Braet & van Achterberg, 2000
Euagathis argentosa van Achterberg & Chen, 2002
Euagathis aurea Simbolotti & van Achterberg, 1995
Euagathis bifoveolata
Simbolotti & van Achterberg, 1995
Euagathis eburnea Simbolotti & van Achterberg, 1995
Euagathis flavicornis
Simbolotti & van Achterberg, 1990
Euagathis flavominuta Simbolotti & van Achterberg, 1995
Euagathis fuscinervis
Simbolotti & van Achterberg, 1990
Euagathis gracilitarsis van Achterberg & Chen, 2002
Euagathis henseni Simbolotti & van Achterberg, 1995
Euagathis lorensis Simbolotti & van Achterberg, 1990
Euagathis magnifica Simbolotti & van Achterberg, 1990
Euagathis maxichora van Achterberg & Chen, 2002
Euagathis mayunae van Achterberg & Chen, 2002
Euagathis minuta Simbolotti & van Achterberg, 1990
Euagathis nigrisoma Simbolotti & van Achterberg, 1995
Euagathis parallela van Achterberg, 2002
Euagathis paraminuta
Simbolotti & van Achterberg, 1990
Euagathis robusta van Achterberg & Chen, 2002
Euagathis rufoscapa Simbolotti & van Achterberg, 1990
Euagathis serena Simbolotti & van Achterberg, 1995
Euagathis subpilosa Simbolotti & van Achterberg, 1990
Euagathis tambora Simbolotti & van Achterberg, 1995
Euagathis vechti Simbolotti & van Achterberg, 1995
Euagathis vermiculata
Simbolotti & van Achterberg, 1990
Euopius lombokensis Fischer, 2000
Facitorus brevicornis van Achterberg, 1995
Facitorus superus van Achterberg, 1995
Ficobracon brusi van Achterberg & Weiblen, 2000
Gnamptodon orientalis (van Achterberg, 1983)
Heia robustipes Chen & van Achterberg, 1997
Homolobus annulatus van Achterberg, 1979
Homolobus bifurcatus van Achterberg, 1979
Homolobus celebensis van Achterberg, 1995

Homolobus crenulatus van Achterberg, 1979
Homolobus intermedius van Achterberg, 1992
Homolobus kahonoi van Achterberg, 1992
Homolobus nepalensis van Achterberg, 1979
Homolobus nigritarsis van Achterberg, 1979
Homolobus undulatus van Achterberg, 1979
Hormiitis brevitarsis van Achterberg, 1995
Hormiitis elliptivalva van Achterberg, 1995
Hyboteles toxopeusi van Achterberg, 1984
Hylcalosia hemiflava van Achterberg, 1983
Hylcalosia maetoi van Achterberg, 1983
Indabracon medivalvis van Achterberg, 1992
Katytermus palmicola van Achterberg, 1996
Leiophron chengi Chen & van Achterberg, 1997
Leiophron evida (Chen & van Achterberg, 1997)
Leiophron expansa (Chen & van Achterberg, 1997)
Leiophron flavicorpus Chen & van Achterberg, 1997
Leiophron natala (Chen & van Achterberg, 1997)
Leiophron normalis (Chen & van Achterberg, 1997)
Leiophron ruficephala Chen & van Achterberg, 1997
Leiophron rufithorax (Chen & van Achterberg, 1997)
Leiophron subtilis Chen & van Achterberg, 1997
Leiophron sutura (Chen & van Achterberg, 1997)
Opius crenuturis Fischer, 1996
Opius sumbawaensis Fischer, 2000
Orgilonia vechti van Achterberg, 1987
Orientopius malaysiae Fischer, 1996
Orientopius priminans Fischer, 1996
Pedinopleura emarginata van Achterberg, 1984
Perilitus aequorus Chen & van Achterberg, 1997
Perilitus brevicornis (Chen & van Achterberg, 1997)
Perilitus cretus (Chen & van Achterberg, 1997)
Perilitus dinghuensis (Chen & van Achterberg, 1997)
Perilitus erratus (Chen & van Achterberg, 1997)
Perilitus galbus (Chen & van Achterberg, 1997)
Perilitus lateropus Chen & van Achterberg, 1997
Perilitus liui Chen & van Achterberg, 1997
Perilitus longicornis (Chen & van Achterberg, 1997)
Perilitus longivenus Chen & van Achterberg, 1997
Perilitus longus Chen & van Achterberg, 1997
Perilitus maae (Chen & van Achterberg, 1997)
Perilitus mellinus (Chen & van Achterberg, 1997)
Perilitus mesus (Chen & van Achterberg, 1997)
Perilitus neptunus (Chen & van Achterberg, 1997)
Perilitus nigriscutum Chen & van Achterberg, 1997
Perilitus oulemae Chen & van Achterberg, 1997
Perilitus pallidistigmus (Chen & van Achterberg, 1997)
Perilitus ruficephalus Chen & van Achterberg, 1997
Perilitus simulans (Chen & van Achterberg, 1997)
Perilitus xynus Chen & van Achterberg, 1997
Peristenus furvus Chen & van Achterberg, 1997
Peristenus levigatus Chen & van Achterberg, 1997
Peristenus montanus Chen & van Achterberg, 1997
Peristenus nitidoides Chen & van Achterberg, 1997
Peristenus procerus Chen & van Achterberg, 1997
Peristenus prodigiosus Chen & van Achterberg, 1997
Peristenus rugosus Chen & van Achterberg, 1997
Peristenus spretus Chen & van Achterberg, 1997
Peristenus xanthos Chen & van Achterberg, 1997
Phanerotomella quadridens Zettel, 1989
Pholeocephala lieftincki van Achterberg, 1988
Promesocentrus tricolor van Achterberg, 1995
Psilolobus interstitialis van Achterberg, 1985
Psyttalia danumicus Fischer, 2000
Pygostolus tibetensis Chen & van Achterberg, 1997
Rattana nigriscapa van Achterberg, 1995
Rectizele parki van Achterberg, 1993
Shelfordia longicaudata van Achterberg, 1993
Sigalphus chrysopharus van Achterberg, 1995
Siniphanerotomella fanjingshana
He, Chen & van Achterberg, 1994
Sinuatophorus acutidentatus van Achterberg, 2000
Sinuatophorus breviceps
Quicke & van Achterberg, 2000
Sinuatophorus constrictus van Achterberg, 2000
Sinuatophorus longiceps
Quicke & van Achterberg, 2000
Sinuatophorus maximus van Achterberg, 2000
Spathius sabahus Belokobylskij, 1995
Stantonia angustata van Achterberg, 1987
Stantonia elizabethae van Achterberg, 1987
Stantonia gracilis van Achterberg, 1987
Stantonia intermediana van Achterberg, 1987
Stantonia jacobsoni van Achterberg, 1987
Stantonia magnifica van Achterberg, 1987
Stantonia nana van Achterberg, 1987
Stantonia nigristernum van Achterberg, 1987
Stantonia pellicea van Achterberg, 1987
Stantonia sabahensis van Achterberg, 1987
Stantonia scutellaris van Achterberg, 1987
Stantonia vittata van Achterberg, 1987
Streblocera chaoi Chen & van Achterberg, 1997
Streblocera cornis Chen & van Achterberg, 1997
Streblocera distincta Chen & van Achterberg, 1997
Streblocera gigantea Chen & van Achterberg, 1997
Streblocera janus Chen & van Achterberg, 1997
Streblocera linearata Chen & van Achterberg, 1997
Streblocera obtusa Chen & van Achterberg, 1997

Stantonia magnifica van Achterberg, holotype.

Sulorgilus reclinervis van Achterberg, 1994
Syntretus bulbus Chen & van Achterberg, 1997
Syntretus glaber Chen & van Achterberg, 1997
Syntretus setosus Chen & van Achterberg, 1997
Syntretus venus Chen & van Achterberg, 1997
Tainiterma maiphuquyi van Achterberg, 2001
Tainiterma pachytarsis van Achterberg & Shaw, 2001
Trispinaria albibasis van Achterberg, 1991
Trispinaria betremi van Achterberg, 1991
Trispinaria maculata van Achterberg, 1991
Trispinaria setosa van Achterberg, 1991
Trispinaria sulcata van Achterberg, 1991
Trispinaria unicolor van Achterberg, 1991
Tuberidelus flavicephalus
Chen & van Achterberg, 1997
Ussuraridelus yaoae Chen & van Achterberg, 1997
Ussurohelcon annulicornis van Achterberg, 1994
Ussurohelcon celebensis van Achterberg, 1994
Ussurohelcon nigricornis van Achterberg, 1994
Wilkinsonellus longicentrus
Long & van Achterberg, 2003
Wilkinsonellus paramplus
Long & van Achterberg, 2003
Zele gracilis van Achterberg, 1979
Zele punctatus van Achterberg, 1979
Zeuzerilia tricolor van Achterberg, 1989

Hymenoptera: Stephanidae:
Megischus angitibialis van Achterberg, 2002
Megischus angularis van Achterberg, 2002
Megischus breviannulatus van Achterberg, 2002
Megischus bungaensis van Achterberg, 2002
Megischus cambaensis van Achterberg, 2002
Megischus carolinae van Achterberg, 2002
Megischus emarginaticollis van Achterberg, 2002
Megischus exilis van Achterberg, 2002
Megischus fransseni van Achterberg, 2002
Megischus glabricephalus van Achterberg, 2002
Megischus krombeini van Achterberg, 2002
Megischus lieftincki van Achterberg, 2002
Megischus luzonicus van Achterberg, 2002
Megischus nigripoides van Achterberg, 2002
Megischus planifrons van Achterberg, 2002
Megischus tangkokoensis van Achterberg, 2002
Megischus tonkinensis van Achterberg, 2002
Pseudomegischus celebensis van Achterberg, 2002
Stephanus soror van Achterberg, 2002

Hymenoptera: Chalcididae:
Arthrocephalus thresiae Narendran, 1989
Brachymeria achterbergi Narendran, 1989
Dirhinus sureshani Narendran, 1989
Arthrocephalus thresiae Narendran, 1989
Haltichella achterbergi Narendran, 1989
Oxycorypha scutellata Narendran, 1989
Sinulapada padata Narendran, 1989
Trigonura achterbergi Narendran, 1989

Lepidoptera: Nepticulidae
Stigmella circumargentea
Van Nieukerken & Liu, 2000 (China, Yunnan)
Stigmella ebbenielseni
Van Nieukerken & Van den Berg, 2003 (Guam)
Stigmella kao
Van Nieukerken & Liu, 2000 (China, Yunnan)
Stigmella lithocarpella
Van Nieukerken & Liu, 2000 (China, Yunnan)
Stigmella vandrieli
Van Nieukerken & Liu, 2000 (China, Yunnan)

Lepidoptera: Oecophoridae

Promalactis autoclina javanica Lvovsky, 2000 (Java)
Promalactis balikpapana Lvovsky, 2000 (Borneo)
Promalactis diehli Lvovsky, 2000 (Sumatra)
Promalactis irinae Lvovsky, 2000 (Java)
Promalactis jacobsoni Lvovsky, 2000 (Sumatra)
Promalactis javana Lvovsky, 2000 (Java)
Promalactis jongi Lvovsky, 2000 (Sabah)
Promalactis kalimantana Lvovsky, 2000 (Borneo)
Promalactis mentawirella Lvovsky, 2000 (Borneo)
Promalactis multimaculella Lvovsky, 2000 (Java)
Promalactis naumanni Lvovsky, 2000 (Borneo)
Promalactis submentawirella Lvovsky, 2000 (Borneo)
Promalactis wegneri Lvovsky, 2000 (Java)

Lepidoptera: Tortricidae

Actinocentra aliena Diakonoff, 1973 (Sumatra)
Adoxophyes acrocindina Diakonoff, 1983 (Sumatra)
A*ethes taneces* Diakonoff, 1973 (Irian Jaya)
Allodemis dionysia Diakonoff, 1983 (Sumatra)
Allodemis euhelias Diakonoff, 1983 (Sumatra)
Allodemis fulva Diakonoff, 1983 (Sumatra)
Allodemis stegopa Diakonoff, 1983 (Sumatra)
Antirrhopa grammateus Diakonoff, 1973 (Borneo)
Antirrhopa melanapta Diakonoff, 1973 (Bali)
Antirrhopa orthopa Diakonoff, 1973 (Borneo)
Apotomis trigonias Diakonoff, 1973 (Java)
Apsidophora purpurorbis Diakonoff, 1973 (Singapore)
Arcesis anax Diakonoff, 1983 (Sumatra)
Archilobesia chresta
Diakonoff, 1973 (d'Entrecasteau Is.)
Archilobesia formosana Diakonoff, 1973 (Formosa)
Asaphistis asema Diakonoff, 1973 (Java)
Asaphistis maturicolor
Diakonoff, 1973 (New Guinea: Mt Goliath)
Asaphistis nobilis
Diakonoff, 1973 (New Guinea: Mt Wilhelm)
Asaphistis phanerops Diakonoff, 1973 (Java)
Asaphistis protosema
Diakonoff, 1973 (New Guinea: Stars Range)
Assulella anoechtotera Diakonoff, 1983 (Java)
Assulella archaea Diakonoff, 1983 (Sumatra)
Assulella lithocosma Diakonoff, 1983 (Sumatra)
Asteriognatha cyclocentra Diakonoff, 1983 (Sumatra)
Asteriognatha metriotera Diakonoff, 1983 (Sumatra)
Asymmetrarcha torquens Diakonoff, 1973 (Java)
Asymmetrarcha xenopa Diakonoff, 1973 (India: Shillong)
Balbidomaga dorophora Diakonoff, 1983 (Sumatra)
Barygnathella centripeta
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Barygnathella diagrapha
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Barygnathella phanerosema
Diakonoff, 1972 (Irian Jaya: Stars Range)
Barygnathella plagiozona
Diakonoff, 1972 (Irian Jaya: Stars Range)
Barygnathella prosecta
Diakonoff, 1972 (Irian Jaya: Stars Range)
Barygnathella psorospora
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Barygnathella pulverulosa
Diakonoff, 1972 (Irian Jaya: Stars Range)
Brongersmia polytropa
Diakonoff, 1972 (Irian Jaya: Stars Range)
Bubonoxena transversa Diakonoff, 1973 (India: Assam)
Campotenes vervoorti
Diakonoff, 1972 (Irian Jaya: Stars Range)
Capua coenotoca Diakonoff, 1983 (Sumatra)
Capua oxycelis Diakonoff, 1983 (Sumatra)
Cephalophyes porphyrea porphyrea
Diakonoff, 1973 (Java)
Cephalophyes porphyrea temperans
Diakonoff, 1973 (Java)
Chiraps phaedra Diakonoff, 1983 (Sumatra)
Clepsis platytera Diakonoff, 1983 (Sumatra)
Cornuticlava heijningeni
Diakonoff, 1972 (Irian Jaya: Stars Range)
Costosa aphenia
Diakonoff 1973 (New Guinea: Milne Bay)
Cryptaspasma (Allobrachygonia) bellicosa
Diakonoff, 1983 (Sumatra)
Cryptomelaena dynastes Diakonoff, 1983 (Sumatra)
Cryptophlebia aniacra Diakonoff, 1983 (Sumatra)
Cyclacanthina episema Diakonoff, 1973 (Java)
Cyclacanthina monosema Diakonoff, 1973 (Ceylon)
Cyclacanthina negligens Diakonoff, 1973 (Celebes)
Cymolomia vinolenta Diakonoff, 1973 (Java)
Dactylioglypha avita Diakonoff, 1973 (Louisiades)
Dactylioglypha mimas
Diakonoff, 1973 (Malay Peninsula: Perak)
Dactylioglypha pallens Diakonoff, 1973 (Java)
Dactylioglypha zonata Diakonoff, 1973 (Java)
Dicephalarcha acupicta Diakonoff, 1973 (Java)
Dicephalarcha atava Diakonoff, 1973 (Bacan)
Dicephalarcha monometalla
Diakonoff, 1973 (New Guinea)
Dicephalarcha sicca Diakonoff, 1973 (Java)

Didrimys unicolor Diakonoff, 1973 (Celebes)
Dolichurella viridimicans Diakonoff, 1983 (Sumatra)
Dudua brachytoma Diakonoff, 1973 (Java)
Dudua carpophora Diakonoff, 1973 (Bacan)
Dudua chlorohygra Diakonoff, 1973 (India: Sikkim)
Dudua cyclographa Diakonoff, 1973 (Borneo)
Dudua lamproterma Diakonoff, 1973 (d'Entrecasteau Is.)
Dudua metacyma Diakonoff, 1973 (Celebes)
Dudua microsema Diakonoff, 1973 (Celebes)
Dudua perornata Diakonoff, 1973 (Celebes)
Dudua perusta Diakonoff, 1983 (Sumatra)
Dudua proba Diakonoff, 1973 (Celebes)
Dudua ultima Diakonoff, 1973 (Nicobar Is.)
Dynatocephala erebenna Diakonoff, 1983 (Sumatra)
Embolostoma plutostola Diakonoff, 1977 (Java)
Endothenia bacillata Diakonoff, 1973 (Bali)
Endothenia lutescens Diakonoff, 1973 (Timor)
Endothenia micans Diakonoff, 1973 (Java)
Endothenia trizona Diakonoff, 1973 (Obi)
Epinotia (Asthenia) clasta Diakonoff, 1983 (Sumatra)
Epinotia (Asthenia) munda Diakonoff, 1983 (Sumatra)
Epinotia (Steganoptycha) araea
Diakonoff, 1983 (Sumatra)
Epitrichosma aureola Diakonoff, 1972 (Irian Jaya)
Epitrichosma lira
Diakonoff, 1972 (Irian Jaya: Stars Range)
Eubrochoneura aversa Diakonoff, 1973 (Celebes)
Eupoecilia anebrica Diakonoff, 1983 (Sumatra:)
Eupoecilia sumatrana Diakonoff, 1983 (Sumatra)
Gatesclarkeana batianensis Diakonoff, 1973 (Bacan)
Gatesclarkeana domestica Diakonoff, 1973 (Java)
Gatesclarkeana eothina Diakonoff, 1973 (Borneo)
Gatesclarkeana idea Diakonoff, 1973 (Java)
Gatesclarkeana moderatrix Diakonoff, 1973 (Celebes)
Gnathmocerodes labidophora
Diakonoff, 1973 (d'Entrecasteaux Isl.)
Gongylotypa anaetia Diakonoff, 1983 (Celebes)
Grapholita diaphorotorna Diakonoff, 1983 (Sumatra)
Hedya daeduchus Diakonoff, 1973 (Celebes)
Hedya leucalox
Diakonoff, 1973 (New Guinea: Stars Range)
Henioloba bifacis Diakonoff, 1973 (Tenimber)
Hermenias dnophera Diakonoff, 1983 (Sumatra)
Hermenias metaspra Diakonoff, 1983 (Sumatra)
Homona anopta Diakonoff, 1983 (Sumatra)
Homona brachysema Diakonoff, 1983 (Sumatra)
Homona despotis Diakonoff, 1983 (Sumatra)
Hoplitendemis centraspis Diakonoff, 1973 (Celebes)
Hoplitendemis erebodes Diakonoff, 1973 (Java)
Hoplitendemis pogonopoda Diakonoff, 1973 (Java)
Isodemis stenotera Diakonoff, 1983 (Sumatra
Isotenes anisa Diakonoff, 1983 Sumatra
Lasiognatha quartaria Diakonoff, 1973 (Sumatra)
Lipsotelus anacanthus anacanthus
Diakonoff, 1973 (Java)
Lipsotelus anacanthus amicus Diakonoff, 1973 (India)
Lipsotelus anacanthus insulae Diakonoff, 1973 (Hainan)
Lipsotelus anacanthus calens Diakonoff, 1973 (Assam)
Lipsotelus armiger Diakonoff, 1973 (Tenasserim)
Lipsotelus xyloides Diakonoff, 1973 (Borneo)
Litotenes ioplecta
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Lobesia acroleuca Diakonoff, 1973 (Java)
Lobesia atrata Diakonoff, 1973 (Marinas)
Lobesia candida Diakonoff, 1973 (Tenimber)
Lobesia clavosa Diakonoff, 1973 (Samoa)
Lobesia elasmopyga
Diakonoff, 1973 (New Guinea: Port Moresby)
Lopharcha chionea Diakonoff, 1974 (Java)
Lopharcha conia Diakonoff, 1983 (Sumatra)
Lopharcha ditissima Diakonoff, 1974 (Java)
Matsumuraeses alpisma Diakonoff, 1972 (Java)
Matsumuraeses felix Diakonoff, 1972 (Java)
Matsumuraeses tetramorpha Diakonoff, 1972 (Nepal)
Matsumuraeses xantholoba Diakonoff, 1972 (Nepal)
Megalota geminus Diakonoff, 1973 (Bali)
Megalota solida Diakonoff, 1973 (Bali)
Meiligma impigris Diakonoff, 1973 (Sumatra)
Metachorista caliginosa
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Metachorista evidens
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Metendothenia calopa
Diakonoff, 1973 (New Guinea: Owgarra)
Metendothenia emmilta Diakonoff, 1973 (Bali)
Metendothenia fidelis Diakonoff, 1973 (Bali)
Metendothenia hilarocroa Diakonoff, 1973 (Celebes)
Metendothenia metacycla
Diakonoff, 1973 (New Guinea: Port Moresby)
Metendothenia rhodambon Diakonoff, 1973 (Bacan)
Metendothenia spumans
Diakonoff, 1973 (New Guinea: Sogeri Plateau)
Metrioglypha aoriphora Diakonoff, 1973 (Java)
Metrioglypha crassa Diakonoff, 1973 (Sula Mangoli)
Metrioglypha dualis Diakonoff, 1973 (Sumba)
Metrioglypha empalinopa Diakonoff, 1973 (Java)
Metrioglypha gemmarius Diakonoff, 1973 (Halmahera)
Metrioglypha habilis Diakonoff, 1973 (Celebes)

Metrioglypha mellifera
Diakonoff, 1973 (Australia: Queensland)
Mimeoclysia mauroprosopa Diakonoff, 1983 (Borneo)
Mimeoclysia strongylopa Diakonoff, 1983 (Sumatra)
Molybdocrates opulenta Diakonoff, 1973 (Bacan)
Monacantha abdita Diakonoff, 1973 (Borneo)
Monacantha astuta Diakonoff, 1973 (Hainan)
Monacantha trachymelas Diakonoff, 1973 (Bacan)
Neopotamia calogona Diakonoff, 1973 (Java)
Neopotamia cathemata Diakonoff, 1983 (Sumatra)
Neopotamia cryptocosma Diakonoff, 1973 (India)
Neopotamia leucotoma Diakonoff, 1973 (Java)
Neopotamia tornocroca Diakonoff, 1973 (India)
Neotenes astromontana
Diakonoff, 1972 (Irian Jaya: Stars Range)
Notioclepsis synnoa Diakonoff, 1983 (Sumatra)
Nyctidea cyanitis Diakonoff, 1973 (New Guinea)
Nyctidea mataea
Diakonoff, 1973(New Guinea: Sorong)
Nyctidea saloris Diakonoff, 1973 (New Guinea: Kapaur)
Nyctidea syngena Diakonoff, 1973 (Louisiades)
Olethreutes agnota Diakonoff, 1973 (India: Assam)
Olethreutes nubicincta Diakonoff, 1973 (Java)
Olethreutes (Loxoterma) nomas
Diakonoff, 1983 (Sumatra)
O*ligotenes amblygrapha*
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Ophiorrhabda favillosa Diakonoff, 1973 (Java)
Palaeomorpha jacobsoni Diakonoff, 1973 (Sumatra)
Penthostola semna Diakonoff, 1978 (Java)
Peridaedala enantiosema Diakonoff, 1983 (Sumatra)
Peridaedala thesaurophora Diakonoff, 1983 (Sumatra)
Peridaedala triangulosa Diakonoff, 1983 (Sumatra)
Petridia latypos Diakonoff, 1983 (Sumatra)
Phaecasiophora diluta Diakonoff, 1973 (India: Assam)
Phaecasiophora ectropa
Diakonoff, 1973 (New Guinea: Aroa River)
Phaecasiophora guttulosa
Diakonoff, 1973 (India: Sikkim)
Phaecasiophora leechi
Diakonoff, 1973 (China: Foochau)
Phaecasiophora obraztsovi
Diakonoff, 1973 (Japan: Honshu)
Phaecasiophora pyragra Diakonoff, 1973 (Hainan)
Phaecasiophora (Phaecasiophora) caelatrix
Diakonoff, 1983 (Sumatra)
Phaecasiophora (Phaecasiophora) decolor
Diakonoff, 1983 (Sumatra)
Phaenacropista compsa Diakonoff, 1983 (Sumatra)
Phalonidia datetis Diakonoff 1984 (Thailand: Bangkok)
Phaulacantha acyclica Diakonoff, 1973 (Formosa)
Phaulacantha metamelas Diakonoff, 1973 (Borneo)
Polylopha hypophaea Diakonoff, 1974 (Java)
Pomatophora cudonis Diakonoff, 1973 (Borneo)
Prophaecasia anthion Diakonoff, 1973 (Borneo)
Proschistis amphibola
Diakonoff, 1973 (New Guinea: Maneau Range)
Proschistis polyochtha
Diakonoff, 1973 (New Guinea: Geelvink Bay)
Protarchella acheenensis Diakonoff, 1983 (Sumatra)
Pseudosciaphila rhachistis Diakonoff, 1973 (India: Pusa)
Psilacantha manifesta
Diakonoff, 1973 (New Guinea: Milne Bay)
Psilacantha spinoa Diakonoff, 1973 (Bacan)
Reptilisocia paraxena Diakonoff, 1983 (Sumatra)
Rhabdotenes dicentropa
Diakonoff, 1972 (Irian Jaya: Stars Range)
Rhabdotenes vinki
Diakonoff, 1972 (Irian Jaya: Kubor Range)
Rhodocosmaria occidentalis
Diakonoff, 1973 (Maly Peninsula: Kuala Lumpur)
Rhomboceros chalepa Diakonoff, 1983 (Celebes)
Rhopaltriplasia anamilleta
Diakonoff, 1973 (New Guinea: Geelvink Bay)
Rhopaltriplasia macrorhis Diakonoff, 1983 (Sumatra)
Rhopobota bostricus Diakonoff, 1983 (Sumatra)
Rhopobota hypomelas Diakonoff, 1983 (Sumatra)
Saetotenes (Anthophallodes) atresta
Diakonoff, 1972 (Irian Jaya: Marobo district, Wau)
Saetotenes (Saetotenes) anguina
Diakonoff, 1973 (Irian Jaya, Maneau Range
Schoenotenes ovalis
Diakonof,f 1973 (Irian Jaya, Maneau Range)
Scotyophyes hemiptycta Diakonoff, 1983 (Sumatra)
Semniotes abrupta Diakonoff, 1973 (Borneo)
Snodgrassia calliplecta Diakonoff, 1983 (Celebes)
Socioplana idicopoda Diakonoff, 1983 (Sumatra)
Sorolopha agalma
Diakonoff, 1973 (New Guinea: Mt Goliath)
Sorolopha argyropa Diakonoff, 1973 (Borneo)
Sorolopha artocincta Diakonoff, 1973 (Bacan)
Sorolopha asphaeropa
Diakonoff, 1973 (New Guinea: Milne Bay)
Sorolopha auribasis
Diakonoff, 1973 (New Guinea: Kapaur)
Sorolopha authadis
Diakonoff, 1973 (New Guinea: Geelvink Bay)

Sorolopha bathysema
Diakonoff, 1973 (New Guinea: Sorong)
Sorolopha caryochlora
Diakonoff, 1973 (New Guinea: Humboldt Bay)
Sorolopha cervicata
Diakonoff, 1973 (Burma: Thayetmyo)
Sorolopha dictyonophora Diakonoff, 1973 (Java)
Sorolopha doryphora Diakonoff, 1973 (Borneo)
Sorolopha dyspeista Diakonoff, 1973 (Celebes)
Sorolopha elaeodes parachlora
Diakonoff, 1973 (Celebes)
Sorolopha epichares
Diakonoff, 1973 (New Guinea: Milne Bay)
Sorolopha euochropa Diakonoff, 1973 (Sumatra)
Sorolopha eurychlora Diakonoff, 1973 (Java)
Sorolopha melanocycla
Diakonoff, 1973 (New Guinea: Mt Tafa)
Sorolopha metastena Diakonoff, 1973 (Celebes)
Sorolopha nucleata Diakonoff, 1973 (Java)
Sorolopha plumboviridis Diakonoff, 1973 (Bacan)
Sorolopha rubescens Diakonoff, 1973 (Halmahera)
Spatalistis philauta Diakonoff, 1983 (Java)
Statheromeris atrifacta
Diakonof,f 1973 (New Guinea: Milne Bay)
Statheromeris semaeophora Diakonoff, 1973 (Bali)
Statherotis abathodes Diakonoff, 1973 (New Guinea)
Statherotis amoebaea leucotrona
Diakonoff, 1973 (Buru)
Statherotis antisema Diakonoff, 1973 (Borneo)
Statherotis catharosema Diakonoff, 1973 (Java)
Statherotis discana cuneata Diakonoff, 1973 (Java)
Statherotis holotricha Diakonoff, 1973 (Celebs)
Statherotis licnuphora Diakonoff, 1973 (Java)
Statherotis micrandra
Diakonoff, 1973 (New Guinea: Geelvink Bay)
Statherotis perculta
Diakonoff, 1973 (New Guinea: Stars Range)
Statherotis polychlora
Diakonoff, 1973 (New Guinea: Stars Range)
Statherotis porphyrochlora
Diakonoff, 1973 (New Guinea: Mambare River)
Statherotis tapinopa
Diakonoff, 1973 (New Guinea: Stars Range)
Statherotis transsecta Diakonof,f 1973 (Obi)
Statherotoxys acrorhaga Diakonoff, 1973 (Ceylon)
Statherotoxys eurydelta Diakonoff, 1973 (Solomon Is.)
Statherotoxys hypochrysa Diakonoff, 1973 (Ternate)
Statherotoxys latens Diakonoff, 1973 (Assam)
Statherotoxys niphophora Diakonof, 1973 (Java)
Statherotoxys pudica Diakonoff, 1973 (Borneo)
Stenotenes aspasia
Diakonoff, 1972 (Irian Jaya: Stars Range)
Sycacantha amphimorpha Diakonoff, 1973 (Java)
Sycacantha caryozona
Diakonoff, 1973 (New Guinea: Aroa River)
Sycacantha catharia Diakonoff, 1973 (Sumba)
Sycacantha cinerascens Diakonoff, 1973 (Borneo)
Sycacantha complicitana elegans
Diakonoff, 1973 (Borneo)
Sycacantha concentra Diakonoff, 1973 (Bali)
Sycacantha crocamicta Diakonoff, 1973 (Bali)
Sycacantha dissita Diakonoff, 1973 (Sula Mangoli)
Sycacantha formosa rutila Diakonoff, 1973 (Borneo)
Sycacantha homichlodes Diakonof,f 1973 (Sumatra)
Sycacantha incondita Diakonoff, 1973 (Java)
Sycacantha inodes celebensis
Diakonoff, 1973 (Celebes)
Sycacantha inopinata Diakonoff, 1973 (Bali)
Sycacantha maior Diakonoff, 1973 (Borneo)
Sycacantha occulta Diakonoff, 1973 (Java)
Sycacantha ostracachtys
Diakonoff, 1973 (New Guinea: Kapaur)
Sycacantha praeclara Diakonoff, 1973 (Bacan)
Sycacantha quadrata Diakonoff, 1973 (Andaman Is.)
Sycacantha rhodocroca
Diakonoff, 1973 (New Guinea: Humboldt Bay)
Sycacantha rotundata Diakonoff, 1983 (Sumatra)
Sycacantha rufescens Diakonoff, 1973 (Java)
Sycacantha solemnis
Diakonoff, 1973 (New Guinea: Stars Range)
Sycacantha subiecta
Diakonoff, 1973 (India: Gorakhpur)
Sycacantha tapaenophyes Diakonoff, 1973 (Sumba)
Sycacantha thermographa Diakonof,f 1973 (Celebes)
Sycacantha versicolor Diakonoff, 1973 (Borneo)
Syntozyga bicuspis
Diakonoff, 1973 (India: Harsleykonda)
Syntozyga stagonophora Diakonoff, 1973 (Ceylon)
Temnolopha biguttata Diakonoff, 1973 (Borneo)
Temnolopha matura Diakonof, 1973 (Borneo)
Thaumatographa cladara Diakonoff, 1977 (Borneo)
Thaumatographa crocochorista Diakonoff, 1983 (Java)
Thaumatographa cymatodes Diakonoff, 1983 (Sumba)
Thaumatographa dolichosticha Diakonoff, 1977 (Java)
Thaumatographa macaria Diakonoff, 1977 (Java)
Thaumatographa oenobapta Diakonoff, 1977 (Java)
Thaumatographa opistocapna
Diakonoff, 1977 (New Guinea: Wareng)

Choaspes plateni boreus de Jong & Treadaway, holotype.

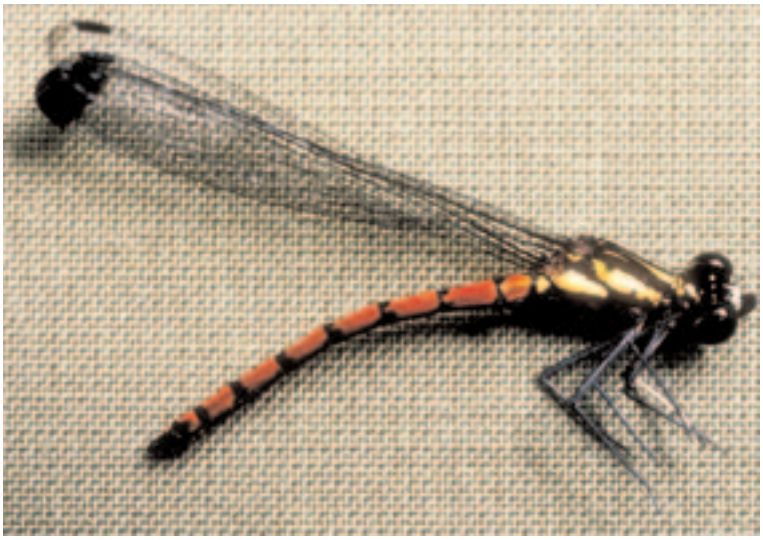
Thaumatographa ostigmatias Diakonoff, 1977 (Taiwan)
Thaumatographa phlox Diakonoff, 1977 (Java)
Thaumatographa tornoxena Diakonoff, 1977 (Java)
Thaumatographa undosa
Diakonoff, 1977 (New Guinea: Sorong
Tracholena indicata
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Tymbarcha beryllocentra Diakonoff, 1983 (Celebes)
Ulodemis hyalura Diakonof,f 1983 (Sumatra)
Xenolepis dolichoschiza
Diakonoff, 1973 (New Guinea: Milne Bay
Zacorista epacmochroma
Diakonoff, 1983 (New Guinea: Owen Stanley Range)
Zomaria frustulosa
Diakonoff, 1973 (New Guinea: Geelvink Bay)

Lepidoptera: Pterophoridae
Ochyrotica borneoica Gielis, 1988 (Borneo)
Ochyrotica breviapex
Gielis, 1989 (Irian Jaya, Morobe district)
Ochyrotica javanica Gielis, 1988 (Java)
Ochyrotica misoolica Gielis, 1988 (Misool)
Ochyrotica pseudocretosa Gielis, 1991 (Irian Jaya)
Ochyrotica toxopeusi Gielis, 1988 (Sulawesi)
Pterophorus aliubasignum
Gielis, 2000 (Irian Jaya: Sorong)
Pterophorus erratus Gielis, 2000 (Sabah: Kinabalu)
Pterophorus lieftincki Gielis, 2000 (Java)

Lepidoptera: Carposinidae
Heterogymna globula
Diakonoff, 1973 (Irian Jaya, Maneau Range)
Picrorhyncha pista
Diakonoff, 1973 (Irian Jaya, Maneau Range)

Lepidoptera: Urodidae
Wockia balikpapanella Kyrki, 1986 (Borneo)

Lepidoptera: Hesperiidae
Choaspes estrella de Jong, 1980 (Luzon)
Choaspes plateni visaya de Jong, 1980 (Leyte)
Celaenorrhinus patuloides de Jong, 1981 (India)
Celaenorrhinus toxopei de Jong, 1981 (Java)
Celaenorrhinus treadawayi treadawayi
de Jong, 1981 (Mindanao)
Celaenorrhinus treadawayi samarensis
de Jong 1981 (Samar)
Celaenorrhinus nigricans mindanus
de Jong, 1981 (Mindanao)
Hasora alta de Jong, 1982 (Sumatra)
Hasora moestissima caeruleostriata
de Jong, 1982 (Luzon) (later raised to species rank)
Kasora khoda latalba de Jong, 1982 (Simalur)
Acerbas anthea luzona de Jong, 1982 (Luzon)
Acerbas latefascia de Jong, 1982 (Sulawesi)
Matapa intermedia intermedia
de Jong, 1983 (Sulawesi)
Matapa intermedia nigrita de Jong, 1983 (Samar)
Matapa deprivata de Jong, 1983 (Burma)
Gangara tumpa de Jong, 1992 (Sulawesi)
Coladenia ochracea de Jong & Treadaway, 1992 (Leyte)
Coladenia similis
de Jong & Treadaway, 1992 (Marinduque)
Coladenia igna marinda
de Jong & Treadawy, 1992 (Marinduque)
Coladenia agni sundae
de Jong & Treadaway, 1992 (Sumatra)
Erionota surprisa de Jong & Treadaway, 1992 (Leyte)



Watuwila vervoorti van Tol, holotype.

Celaenorrhinus halconis
de Jong & Treadaway, 1993 (Mindoro)
Bibasis harisa pala
de Jong & Treadaway, 1993 (Palawan)
Bibasis harisa grandis
de Jong & Treadaway, 1993 (Samar)
Choaspes plateni negrosa
de Jong & Treadaway, 1993 (Negros)
Choaspes plateni boreus
de Jong & Treadaway, 1993 (Luzon)
Pirdanus fusca de Jong & Treadaway, 1993 (Samar)
Pyroneura liburnia dora
de Jong & Treadaway, 1993 (Mindoro)
Pyroneura liburnia rosa
de Jong & Treadaway, 1993 (Negros)
Pyroneura liburnia wita
de Jong & Treadaway, 1993 (Tawitawi Archipelago)
Halpe latipinna de Jong & Treadaway, 1993 (Mindoro)
Halpe inconspicua de Jong & Treadaway, 1993 (Leyte)
Halpe purpurascens
de Jong & Treadaway, 1993 (Panay)
Zographetus pallens
de Jong & Treadaway, 1993 (Marinduque)
Potanthus niobe hyugai
de Jong & Treadaway, 1993 (Luzon)
Taractrocera trikora de Jong, MS (Irian Jaya)
Taractrocera fusca de Jong, MS (Papua New Guinea)

Lepidoptera: Sphingidae
Dolbina krikkeni Roesler & Küppers, 1975 (Sumatra)

Lepidoptera: Arctiidae
Nyctemera consobriniformis
Vos & Cerny, 1999 (Mindanao)
Nyctemera contrasta Vos & Cerny, 1999 (Mindanao)
Nyctemera kebeae intermedia
Vos, 1997 (Irian Jaya: Star Mts)
Nyctemera kebeae occidentalis
Vos, 1997 (Irian Jaya: Centr. Bergland)
Nyctemera pseudokala Vos, 1996 (Buru)
Nyctemera swinhoei Vos, 2002 (Halmahera)

Odonata
Rhinocypha latimacula Lieftinck, 1974 (Tawi Tawi)
Caledargiolestes janiceae Lieftinck, 1975 (New Caledonia)
Isosticta gracilior Lieftinck, 1975 (New Caledonia)
Hemicordulia hilaris Lieftinck, 1975 (New Caledonia)
Somatochlora daviesi Lieftinck, 1977 (India: Meghalaya)
Calicnemia sinensis Lieftinck, 1984 (China: Fukien)
Calicnemia carminea carminea Lieftinck, 1984 (Nepal)
Calicnemia carminea pyrrhosoma Lieftinck, 1984
(India: Dehra Dun)
Rhyacocnemis prothoracica Lieftinck, 1987 (New Guinea)
Salomocnemis gerdae Lieftinck, 1987 (Solomon Islands)
Lieftinckia malaitae Lieftinck, 1987 (Solomon Islands)
Lieftinckia isabellae Lieftinck, 1987 (Solomon Islands)
Teinobasis chionopleura Lieftinck, 1987 (Solomon Islands)
Teinobasis imitans Lieftinck, 1987 (Solomon Islands)
Celebophlebia carolinae Van Tol, 1987 (Sualwesi)
Diplacina militaris dumogae Van Tol, 1987 (Sulawesi)
Diplacina sanguinolenta Van Tol, 1987 (Sulawesi)
Diplacina torrenticola Van Tol, 1987 (Sulawesi)
Leptogomphus pasia Van Tol, 1990 (Sabah)
Rhinocypha watsoni
Van Tol & Rozendaal, 1995 (Vietnam)
Bayadera vietnamensis
Van Tol & Rozendaal, 1995 (Vietnam)

Euphaea ameeka
Van Tol & Norma-Rashid, 1995 (Brunei)
Procordulia lompobatang Van Tol, 1997 (Sulawesi)
Procordulia papandayanensis Van Tol, 1997 (Java)
Procordulia rantemario Van Tol, 1997 (Sulawesi)
Watuwila vervoorti Van Tol, 1998 (Sulawesi)
Protosticta coomansi Van Tol, 2000(Sulawesi)
Protosticta geijskesi Van Tol, 2000 (Sulawesi)
Protosticta linduensis Van Tol, 2000 (Sulawesi)
Protosticta marenae Van Tol, 2000 (Sulawesi)
Protosticta maurenbrecheri Van Tol, 2000 (Sulawesi)
Protosticta pariwonoi Van Tol, 2000 (Sulawesi)
Protosticta reslae Van Tol, 2000 (Sulawesi)
Protosticta rozendalorum Van Tol, 2000 (Sulawesi)
Protosticta vanderstarrei Van Tol, 2000 (Sulawesi)
Pseudagrion lalakense Orr & Van Tol, 2001 (Brunei)
Cyrano angustior Hämäläinen, 1989 (Philippines)
Teinobasis annamaijae
Hämäläinen & Müller, 1989 (Philippines)
Neurobasis anumariae Hämäläinen, 1989 (Philippines)
Neurobasis luzoniensis subpicta
Hämäläinen, 1990 (Philippines)
Gynacantha constricta Hämäläinen, 1991 (Philippines)
Risiocnemis arator Hämäläinen, 1991 (Philippines)
Risiocnemis kiautai Hämäläinen, 1991 (Philippines)
Risiocnemis plebeja Hämäläinen, 1991 (Philippines)
Risiocnemis praeusta Hämäläinen, 1991 (Philippines)
Risocnemis rolandmuelleri
Hämäläinen, 1991 (Philippines)
Risiocnemis odobeni Hämäläinen, 1991 (Philippines)
Risiocnemis moroensis Hämäläinen, 1991 (Philippines)
Risiocnemis calceata Hämäläinen, 1991 (Philippines)
Risiocnemis fuligifrons Hämäläinen, 1991 (Philippines)
Risiocnemis siniae Hämäläinen, 1991 (Philippines)
Risiocnemis gracilis Hämäläinen, 1991 (Philippines)
Risiocnemis varians Hämäläinen, 1991 (Philippines)
Drepanosticta belyshevi Hämäläinen, 1991 (Philippines)
Gynacantha rolandmuelleri
Hämäläinen, 1991 (Philippines)
Idionyx victor Hämäläinen, 1991 (Philippines)
Onychogomphus treadawayi
Müller & Hämäläinen, 1993 (Philippines)
Neurobasis daviesi Hämäläinen, 1993 (Philippines)
Rhinocypha arguta
Hämäläinen & Divasiri, 1997 (Thailand)
Stenagrion petermilleri Hämäläinen, 1997 (Philippines)
Drepanosticta jurzitzai Hämäläinen, 1999 (Thailand)
Risocnemis seidenschwarzi
Hämäläinen, 2000 (Philippines)
Idionyx iida Hämäläinen, 2002 (Thailand)
Risiocnemis antoniae
Gassmann & Hämäläinen, 2002 (Mindanao)
Risiocnemis kaiseri
Gassmann & Hämäläinen, 2002 (Samar)
Risiocnemis nigra
Gassmann & Hämäläinen, 2002 (Samar)
Risiocnemis pistor
Gassmann & Hämäläinen, 2002 (Mindanao)
Risiocnemis rubricercus
Gassmann & Hämäläinen, 2002 (Mindanao)
Libellago balus Hämäläinen, 2002 (Nicobars)
Drepanosticta moorei Van Tol & Müller, 2003 (Luzon)
Anisopleura trulla Hämäläinen, 2003 (Thailand)
Caliphaea angka Hämäläinen, 2003 (Thailand)

Trichoptera

Apsilochorema cabang Huisman, 1992
Apsilochorema kinabalu Huisman, 1992
Apsilochorema setitiga Huisman, 1992
Apsilochorema tajuk Huisman, 1992
Hydroptila batang Wells & Huisman, 1992 (Brunei)
Hydroptila sederhana Wells & Huisman, 1992 (Sabah)
Hydroptila berkait Wells & Huisman, 1992 (Sabah)
Hydroptila lidah Wells & Huisman, 1992 (Sabah)
Hydroptila daun Wells & Huisman, 1992 (Sabah)
Hydroptila kebawah Wells & Huisman, 1992 (Sabah)
Hydroptila halus Wells & Huisman, 1992 (Sabah)
Hydroptila dayung Wells & Huisman, 1992 (Sabah)
Hellyethira selaput Wells & Huisman, 1992 (Brunei)
Hellyethira piala Wells & Huisman, 1992 (Brunei)
Hellyethira bulat Wells & Huisman, 1992 (Sabah)
Dinarthrum bidentatum
Weaver & Huisman, 1992 (Sabah)
Dinarthrum capreolum
Weaver & Huisman, 1992 (Sabah)
Dinarthrum kellyi Weaver & Huisman, 1992 (Sabah)
Dinarthrum tridentatum
Weaver & Huisman, 1992 (Sabah)
Lepidostoma bisculum
Weaver & Huisman, 1992 (Sabah)
Lepidostoma corollatum
Weaver & Huisman, 1992 (Sabah)
Lepidostoma cratis Weaver & Huisman, 1992 (Sabah)
Lepidostoma curtipendulum
Weaver & Huisman, 1992 (Sarawak)
Lepidostoma erectum Weaver & Huisman, 1992 (Sabah)
Lepidostoma ocotolobium
Weaver & Huisman, 1992 (Sabah)

Lepidostoma pendulum
Weaver & Huisman, 1992 (Sabah)
Lepidostoma quaternarium
Weaver & Huisman, 1992 (Sabah)
Lepidostoma tenellum Weaver & Huisman, 1992 (Sabah)
Lepidostoma uncinatum
Weaver & Huisman, 1992 (Sabah)
Lepidostoma neboissi
Weaver & Huisman, 1992 (Sulawesi)
Molanna jolandae Neboiss, 1993 (Sulawesi)
Gunungiella paruh Huisman, 1993 (Sabah)
Gunungiella berduri Huisman, 1993 (Sabah)
Gunungiella leluk Huisman, 1993 (Sabah)
Gunungiella anthea Huisman, 1993 (Sabah)
Gunungiella tanduk Huisman, 1993 (Sabah)
Gunungiella parang Huisman, 1993 (Sabah)
Gunungiella kakatua Huisman, 1993 (Sabah)
Microptila taji Wells, 1993 (Bali)
Chrysotrichia terpisaduri Wells, 1993 (Bali)
Chrysotrichia bintik Wells & Huisman, 1993 (Sabah)
Chrysotrichia hermani Wells & Huisman, 1993 (Sabah)
Chrysotrichia coodei Wells & Huisman, 1993 (Brunei)
Sclerotrichia bilah Wells & Huisman, 1993 (Sabah)
Sclerotrichia buluhalus Wells & Huisman, 1993 (Sabah)
Sclerotrichia ceesi Wells & Huisman, 1993 (Sabah)
Sclerotrichia gerigi Wells & Huisman, 1993 (Sabah)
Sclerotrichia paku Wells & Huisman, 1993 (Sabah)
Orthotrichia runching Wells & Huisman, 1993 (Sabah)
Orthotrichia jani Wells & Huisman, 1993 (Sabah)
Orthotrichia sinit Wells & Huisman, 1993 (Sabah)
Adicella danumensis
Huisman & Andersen, 1997 (Sabah)
Adicella gada Huisman & Andersen, 1997 (Sabah)
Adicella bavanga Huisman & Andersen, 1997 (Sabah)
Adicella anakpanah
Huisman & Andersen, 1997 (Sabah)

Homoptera: Cicadellidae

Apheliona bella Dworakowska, 1994 (Sabah)
Apheliona expansa Dworakowska, 1994 (Sabah)
Apheliona cyclops Dworakowska, 1994 (Sabah)
Apheliona radiata Dworakowska, 1994 (Sabah)
Apheliona unica Dworakowska, 1994 (Sabah)
Apheliona vexana Dworakowska, 1994 (Sabah)
Apheliona grandis Dworakowska, 1994 (Sabah)
Apheliona variocula Dworakowska, 1994 (Sabah)
Apheliona octava Dworakowska, 1994 (Sabah)

Homoptera: Cicadidae

Orientopsaltria maculosa Duffels & Zaidi, 2000 (Sabah)
Orientopsaltria kinabaluana
Duffels & Zaidi, 2000 (Sabah)
Purana capricornis Kos & Gogola, 2000 (Sabah)

Heteroptera aquatica: Gerromorpha

Cylindrostethus brachyakanthinos Chen & Nieser, 1992
Ventidius xiphobion Chen & Nieser, 1992
Ventidius xyele Chen & Nieser, 1992
Rheumatometroides makraitos Chen & Nieser, 1992
Rheumatometroides drepanephoros Chen & Nieser, 1992
Rhagovelia chrysomalla Nieser & Chen, 1993 (Sulawesi)
Rhagovelia horaia Nieser & Chen, 1993 (Sulawesi)
Rhagovelia kalami Nieser & Chen, 1993 (Sulawesi)
Rhagovelia pseudocelebensis
Nieser & Chen, 1993 (Sulawesi)
Rhagovelia robina Nieser & Chen, 1993 (Sulawesi)
Pseudovelia aflia Nieser, 1995 (Sulawesi)
Pseudovelia argyropardala Nieser, 1995 (Sulawesi)
Pseudovelia epimekta Nieser, 1995 (Sulawesi)
Pseudovelia kalami Nieser, 1995 (Mindanao)
Pseudovelia koutali Nieser, 1995 (Sulawesi)
Xiphovelia skoteina Nieser, 1995 (Sulawesi)
Aphelocheirus geros Nieser & Chen, 1996 (Sulawesi)
Enithares stansae Nieser & Chen, 1996 (Sulawesi)
Rhagovelia krama Nieser, Zettel & Chen, 1997 (Sulawesi)
Rhagovelia ochra
Nieser, Zettel & Chen, 1997 (Sulawesi)
Rhagovelia skoura Nieser, Zettel & Chen, 1997 (Sangihe)
Rhagovelia tsouloufi
Nieser, Zettel & Chen, 1997 (Sulawesi)
Pleciogonus wongsirii Chen et al., 2002 (Thailand)
Rheumatogonus esakii Chen & NIeser, 2002 (Brunei)
Rheumatogonus vantoli Chen & Nieser, 2002 (Sabah)

Nepomorpha

Aphelocheirus breviculus Nieser & Chen, 1991 (Sabah)
Aphelocheirus robustus Nieser & Chen, 1991 (Sulawesi)
Coptocatus stereos Nieser & Chen, 1991 (Sabah)
Ranatra sulawesii Nieser & Chen, 1991 (Sulawesi)
Enithares caesaries Nieser & Chen, 1991 (Sulawesi)
Micronecta kymatista Nieser & Chen, 1999
Micronecta aleksanderi Nieser & Chen, 1999
Micronecta skualis Nieser & Chen, 1999
Helotrephes otoeis Nieser & Chen, 1999
Micronecta crinita Chen et al., 2002
Micronecta transversa Chen et al., 2002
Paranisops sawangi Chen et al., 2002

Dermaptera

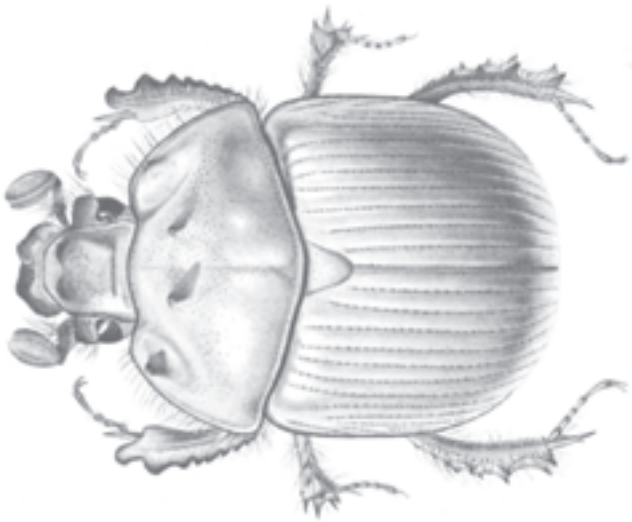
Sigmella achterbergi Roth, 1996 (Sabah)
Sigmella kinasaba Roth, 1996 (Sabah)
Sigmella huismanae Roth, 1996 (Sabah)
Sigmella barrafordae Roth, 1996 (Sabah)
Sigmella balikpapanensis Roth, 1996 (Kalimantan)
[from Wegner 1950 collection]

Coleoptera: Cincindelae

Therates wiesneri Cassola, 1991 (Sulawesi)
Thopeutica (Thopeutica) vantoli Cassola, 1991 (Sulawesi)
Thopeutica (Pseudotherates) luwuk Cassola, 1991 (Sulawesi)
Wallacedela krikkeni Cassola, 1991 (Sulawesi)
Wallacedela banggai Cassola, 1991 (Sulawesi)
Wallacedela brendelli Cassola, 1991 (Sulawesi)

Coleoptera: Scarabaeoidea

Aesalus timidus Krikken, 1975 (Sumatra)
Bolbogonium addendum Krikken, 1977 (Vietnam)
Bolbogonium bicornutum Krikken, 1977 (India)
Bolbogonium howdeni Krikken, 1977 (India)
Bolbogonium insidiosum Krikken, 1977 (India)
Bolbogonium pseudopunctatissimum Krikken, 1977 (India)
Bolbogonium scurra Krikken, 1977 (India)
Bolbogonium wiebesi Krikken, 1977 (Burma)
Plectrone negricola Krikken, 1978 (Negros)
Mimobolbus imitator Krikken, 1978 (India)
Onthophagus calamophilus Krikken, 1978 (New Guinea)
Onthophagus gajo Krikken, 1978 (Sumatra)
Onthophagus sisyphoides Krikken, 1978 (New Guinea)
Onthophagus vethi Krikken, 1978 (Suymatra)
Platygeniops exspectatus Krikken, 1978 (Borneo)
Heterovalgus popei Krikken, 1978 (Java)
Onthophagus wiebesi Krikken, 1978 (Luzon)
Mecinonota interrupta Krikken, 1979 (Sulawesi)
Oncosterna taruna Krikken, 1979 (Sangihe)
Oncosterna aberrans Krikken, 1979 (Sulawesi)
Microlomaptera pygidialis Krikken, 1979 (New Guinea)
Rhinacosmus javanus Krikken, 1979 (Java)
Bolbocerosoma dierli Krikken, 1979 (Nepal)
Bolbocerosoma garritor Krikken, 1979 (China)
Bolbocerosoma sikkimensis Krikken, 1979 (N India)
Bolbohamatum drescheri drescheri Krikken, 1980 (Java)
Bolbohamatum drescheri indosinicum Krikken, 1980 (Indo-China)
Bolbohamatum drescheri birmanicus Krikken, 1980 (Burma)
Bolbohamatum kuijteni Krikken, 1980 (India)
Bolbohamatum marginale Krikken, 1980 (India)
Bolbohamatum meridionale Krikken, 1980 (India)
Bolbohamatum phallosum Krikken, 1980 (India)
Bolbohamatum pseudogrande Krikken, 1980 (India)
Bolbohamatum pyramidifer Krikken, 1980 (India)
Bolbohamatum robustum Krikken, 1980 (India)
Bolbohamatum syncopator Krikken, 1980 (India)
Ischiopsopha jansoni Krikken, 1980 (New Guinea)
Onthophagus knapperti Krikken, 1981 (Sumatra)
Rhabdotops insularis Krikken, 1981 (Lombok)
Geotrupes martensi Krikken, 1981 (Nepal)
Geotrupes stellosus Krikken, 1981 (Nepal)
Geotrupes stellosus anapurnicus Krikken, 1981 (Nepal)
Clinterocera borneensis Krikken, 1982 (Borneo)
Taeniodera celebensis Krikken, 1982 (Sulawesi)
Taeniodera inermis Krikken, 1982 (Borneo)



Bolbohamatum drescheri Krikken, 1980, holotype.

Taeniodera bandahara Krikken, 1982 (Sumatra)
Ischiopsopha erratica Krikken, 1983 (NW Australia)
Ischiopsopha meeki
Krikken, 1983 (Goodenough Island)
Ischiopsopha uliasica Krikken, 1983 (Moluccas)
Ischiopsopha utakwa Krikken, 1983 (W New Guinea)
Peotoxus bacchusi Krikken, 1983 (W New Guinea)
Ingrisma hainanica Krikken, 1984 (Hainan)
Ruteraetia tubericeps Krikken, 1985 (Borneo)
Onthophagus dejongi Krikken, 1986 (Samar)
Onthophagus bistiniocelloides Krikken, 1986 (Samar)
Charitovalgus vermeulenae Krikken, 1987 (Sulawesi)
Synapsis cambeforti Krikken, 1987 (Brunei)
Termitodius interruptus
Krikken & Huijbregts, 1987 (Sulawesi)
Termitodius monticola
Krikken & Huijbregts, 1987 (Sulawesi)
Termitodius hammondi
Krikken & Huijbregts, 1987 (Borneo)
Termitodius neglectus
Krikken & Huijbregts, 1987 (Sumatra)
Onthophagus paroculus
Krikken & Huijbregts, 1987 (Sumatra)
Onthophagus setoculus
Krikken & Huijbregts, 1987 (Sumatra)
Onthophagus sideki
Krikken & Huijbregts, 1987 (Sumatra)
Onthophagus phillippsorum
Krikken & Huijbregts, 1987 (Borneo)
Onthophagus collinsi
Krikken & Huijbregts, 1987 (Borneo)
Onthophagus parapalatus
Krikken & Huijbregts, 1988 (Java)

Araneae: Clubionidae
Calamoneta djojosudharmoi
Deeleman-Reinhold, 2001 (Sumatra: Ketambe)
Calamoneta urata
Deeleman-Reinhold, 2001 (Java: Cibodas)
Calamopus phyllicola
Deeleman-Reinhold, 2001 (Thailand: Khao Yai NP)
Calamopus tenebrarum
Deeleman-Reinhold, 2001 (Bali, Tamblikan)
Clubiona biembolata Deeleman-Reinhold, 2001
(Sarawak: Semengoh Arboretum)
Clubiona damirkovaci
Deeleman-Reinhold, 2001 (Malay Peninsula)
Clubiona hindu
Deeleman-Reinhold, 2001 (Bali, Blimbing)
Clubiona inquilina Deeleman-Reinhold, 2001
(Sarawak: Semengoh Arboretum)
Clubiona mikhailovi
Deeleman-Reinhold, 2001 (Java: Cibodas)
Clubiona pala
Deeleman-Reinhold, 2001 (Molluccas, Ceram)
Clubiona parconcinna
Deeleman-Reinhold, 2001 (Thailand, Khao Yai NP)
Clubiona picturata
Deeleman-Reinhold, 2001 (Bali: Singaraja)
Clubiona pteronetoides Deeleman-Reinhold, 2001
(Thailand Khao Sam Roi Yot NP)
Clubiona scandens Deeleman-Reinhold, 2001
(Sabah: Poring Hot Springs)
Clubiona silvestris Deeleman-Reinhold, 2001
(Sabah: Poring Hot Springs)
Clubiona stiligera
Deeleman-Reinhold, 2001 (Sumatra: Ketambe)
Malamatidia bohorokensis
Deeleman-Reinhold, 2001 (Sumatra: Bohorok)
Malamatidia thorelli
Deeleman-Reinhold, 2001 (Sulawesi: Kendari)
Malamatidia vethi Deeleman-Reinhold, 2001
(Kalimantan: Tumbang Tahai)
Matidia bipartita Deeleman-Reinhold, 2001 (Halmaheira)
Matidia mas
Deeleman-Reinhold, 2001 (Thailand: Erawan NP)
Matidia simia Deeleman-Reinhold, 2001
(Sulawesi: Dumoga-Bone NP)
Nusatidia borneensis Deeleman-Reinhold, 2001
(Kalimantan: Kaharian)
Nusatidia camouflata
Deeleman-Reinhold, 2001 (Thailand: Erawan)
Nusatidia rama
Deeleman-Reinhold, 2001 (Sumatra, Kerinci)
Pristidia longistila Deeleman-Reinhold, 2001
(Sarawak: Semengoh Arboretum)
Pristidia prima
Deeleman-Reinhold, 2001 (Sumatra, Bohorok)
Pristidia secunda
Deeleman-Reinhold, 2001 (Sumatra: Mt.Singalang)
Pristidia viridissima
Deeleman-Reinhold, 2001 (Sumatra: Ketambe)
Pteroneta saltans Deeleman-Reinhold, 2001 (Sumba)
Systaria bohorokensis
Deeleman-Reinhold, 2001 (Sumatra: Bohorok)
Systaria dentate
Deeleman-Reinhold, 2001 (Sumatra: Ketambe)

Tamin pseudodrassus Deeleman-Reinhold, 2001
(Sabah: Poring Hot Springs)
Tamin simony Deeleman-Reinhold, 2001
(Sarawak: Semengoh Arboretum)
Xantharia floreni Deeleman-Reinhold, 2001
(Sabah: Poring Hot Springs)

Araneae: Corinnidae
Aetius nocturnes
Deeleman-Reinhold, 2001 (Sabah: Danum Valley)
Castianeira russellsmithi Deeleman-Reinhold, 2001
(Sulawesi: Dumoga Bone NP)
Castoponera lecythus
Deeleman-Reinhold, 2001 (Sabah: Danum Valley)
Echinax javana
(Deeleman-Reinhold, 1994) (Java, Pudjon Pass)
Echinax oxyopoides
(Deeleman-Reinhold, 1994) (Sumatra: Bohorok)
Koppe calciphila Deeleman-Reinhold, 2001
(Sulawesi, Ujung Pandang)
Koppe doleschalli
Deeleman-Reinhold, 2001 (Ambon)
Koppe kinabalensis Deeleman-Reinhold, 2001
(Borneo, Kinabalu Nat.Park)
Koppe minuta
Deeleman-Reinhold, 2001 (Sumatra, Bohorok)
Koppe montana
Deeleman-Reinhold, 2001 (Java, Cibodas)
Koppe no Deeleman-Reinhold, 2001
(Sulawesi, Lore Lindu Rserve)
Koppe princeps Deeleman-Reinhold, 2001
(Sulawesi, Dumoga Bone NP)
Koppe sumba Deeleman-Reinhold, 2001 (Sumba)
Medmassa diplogale Deeleman-Reinhold, 2001
(Sabah: Poring Hot Springs)
Oedignatha spadix
Deeleman-Reinhold, 2001 (Bali: Ambengan)
Serendib volans Deeleman-Reinhold, 2001
(Sabah: Poring Hot Springs)
Utivarachna bucculenta
Deeleman-Reinhold, 2001 (Thailand, Khao Yai)
Utivarachna chamaeleon
Deeleman-Reinhold, 2001 (Sarawak: Bako NP)
Utivarachna dusun Deeleman-Reinhold, 2001
(Sabah: Poring Hot Springs)
Utivarachna ichneumon
Deeleman-Reinhold, 2001 (Sabah: Danum Valley)
Utivarachna kinabaluensis
Deeleman-Reinhold, 2001 (Sabah: Kinabalu NP)
Utivarachna phyllicola
Deeleman-Reinhold, 2001 (Thailand, Khao Yai)
Utivarachna rubra
Deeleman-Reinhold, 2001 (Kalimantan: Kaharian)
Castianeira ciliata
Deeleman-Reinhold, 1992 (Sumatra, Bohorok)
Castoponera scotopoda
Deeleman-Reinhold, 1992 (Sarawak, Bako N.P.)
Corinnomma rapax
Deeleman-Reinhold, 1992 (Sumatra, Ketambe)
Pranburia mahannopi Deeleman-Reinhold, 1992
(Thailand, Khao Sam Roi Yot)

Araneae: Gnaphosidae
Hitobia yaginumai
Deeleman-Reinhold, 2001 (Thailand, Sam Roi Yot)
Hongkongia caeca
Deeleman-Reinhold, 2001 (Halmahera)
Hongkongia reptrix
Deeleman-Reinhold, 2001 (Java, Pudjon Pass)
Laronius erawan Platnick & Deeleman-Reinhold, 2001
(Thailand, Erawan)
Micythus anopsis Deeleman-Reinhold, 2001
(Thailand, Chiang Dao cave)
Odontodrassus muralis Deeleman-Reinhold, 2001
(Sulawesi, Pulau Malenge Togian)
Synaphosus feminis
Deeleman-Reinhold, 2001 (Java, Pudjon Pass)
Synaphosus kris Deeleman-Reinhold, 2001 (Bali)
Synaphosus raveni
Deeleman-Reinhold, 2001 (Thailand, Erawan)

Araneae: Linyphiidae
Mitrager noordami
van Helsdingen, 1985 (Java, Dijeng Plateau)

Araneae: Liocranidae
Jacaena mihun
Deeleman-Reinhold, 2001 (Thalland, Khao Yai)
Orthobula bilobata
Deeleman-Reinhold, 2001 (Sumbawa)
Orthobula quadrinotata
Deeleman-Reinhold, 2001 (Sulawesi: Kendari)
Otacilia ambon Deeleman-Reinhold, 2001 (Ambon)
Otacilia onoi
Deeleman-Reinhold, 2001 (Thailand, Phra Khanong)
Otacilia ornate
Deeleman-Reinhold, 2001 (Sabah: Kinabalu N.P.)

Otacilia parva
Deeleman-Reinhold, 2001 (Sumatra: Panti)
Otacilia sinifera
Deeleman-Reinhold, 2001 (Thailand: Khao Yai NP)
Plynnon jaegeri
Deeleman-Reinhold, 2001 (Sumatra, Bukittinggi)
Plynnon longitarse Deeleman-Reinhold, 2001
(Kalimantan: Tumbang Tahai)
Plynnon zborowskii
Deeleman-Reinhold, 2001 (Sabah: Kinabalu N.P.)
Sesieutes borneensis
Deeleman-Reinhold, 2001 (Kalimantan, Kaharian)
Sesieutes bulbosus
Deeleman-Reinhold, 2001 (Sabah: Danum Valley)
Sesieutes erawan
Deeleman-Reinhold, 2001 (Thailand: Erawan)
Sesieutes minor
Deeleman-Reinhold, 2001 (Sabah: Kinabalu N. Park)
Sesieutes nitens
Deeleman-Reinhold, 2001 (Sumatra, Singalang)
Sesieutes scrobiculatus
Deeleman-Reinhold, 2001 (Sumatra: Bohorok)
Sphingius octomaculatus
Deeleman-Reinhold, 2001 (Thailand, Erawan)
Sphingius punctatus
Deeleman-Reinhold, 2001 (Bali, Ambengan)
Sudharmia pongorum
Deeleman-Reinhold, 2001 (Sumatra: Ketambe)
Teutamus andrewdavisi
Deeleman-Reinhold, 2001 (Sabah: Danum Valley)
Teutamus fertilis
Deeleman-Reinhold, 2001 (Sumatra: Ketambe)
Teutamus jambiensis
Deeleman-Reinhold, 2001 (Sumatra: Kerinci)
Teutamus rhino
Deeleman-Reinhold, 2001 (Java, Udjung Kulon)
Teutamus rothorum
Deeleman-Reinhold, 2001 (Java, Cibodas)
Teutamus vittatus
Deeleman-Reinhold, 2001 (Sabah: Kinabalu NP)

Araneae: Ochyroceratidae
Althepus suhartoi
Deeleman-Reinhold, 1985 (Sumatra, Bohorok)
Leclercera negros
Deeleman-Reinhold, 1995 (Philippines, Negros)
Leclercera spinata Deeleman-Reinhold, 1995
(Sulawesi: Udjung Pandang)
Merizocera pygmaea Deeleman-Reinhold, 1995
(Thailand, Khao Sam Roi Yot)
Psiloderces enigmatus
Deeleman-Reinhold, 1995 (Matang, W.Sarawak)
Psiloderces kalimantan
Deeleman-Reinhold, 1995 (Kalimantan, Sepaku)
Psiloderces penaeorum
Deeleman-Reinhold, 1995 (Thailand: Hua Hin, cave)
Psiloderces tesselatus
Deeleman-Reinhold, 1995 (Java, Karang Bolong)
Speocera krikkeni
Brignoli, 1977 (Sumatra, Mt Bandahara)
Speocera transleuser
Deeleman-Reinhold, 1995 (Sumatra, Bohorok)

Araneae: Oonopidae
Opopoaea fosuma Buerger et al., 2002 (Sumatra)
Xyphinus lemniscatus
Deeleman-Reinhold, 1987 (Sabah: Kinabalu NP)
Xyphinus montanus Deeleman-Reinhold, 1987 (Matang)
Xyphinus xanthus Deeleman-Reinhold, 1987 (Tamparuli)

Araneae: Pacullidae
Paculla bernhardi
Deeleman-Reinhold, 1980 (Kalimantan: Sepaku)
Paculla inornata
Deeleman-Reinhold, 1980 (Sabah: Tuaran)
Sabaya bispinosa
Deeleman-Reinhold, 1980 (Sabah: Kinabalu)
Sabaya kinanabuana
Deeleman-Reinhold, 1980 (Sabah: Kinabalu)

Araneae: Pholcidae
Bocus angusticollis Deeleman-Reinhold & Floren, 2003
(Sabah, Mt Kinabalu NP)
Calapnita phasmoides
Deeleman-Reinhold, 1986 (Kalimantan, Sepaku)
Calapnita phyllicola
Deeleman-Reinhold, 1986 (Kalimantan, Sepaku)
Calapnita subphyllicola
Deeleman-Reinhold, 1986 (Mindanao, Davao)
Depreissia decipiens Deeleman-Reinhold & Floren,
2003 (Sabah, Mt Kinabalu NP)
Leptopholcus borneensis
Deeleman-Reinhold, 1986 (Kalimantan, Sepaku)
Neobrettus cornutus Deeleman-Reinhold & Floren, 2003
(Sabah, Mt Kinabalu NP)
Neobrettus xanthophyllum Deeleman-Reinhold & Floren,
2003 (Sabah, Mt Kinabalu NP)

Panjange alba Deeleman-Reinhold & Deeleman, 1983 (Sulawesi, Kendari)
Panjange cavicola Deeleman-Reinhold & Deeleman, 1983 (Sulawesi, Udjung Pandang)
Panjange lanthana Deeleman-Reinhold & Deeleman, 1983 (Luzon, Quezon NP)
Panjange nigrifrons Deeleman-Reinhold & Deeleman, 1983 (Kalimantan, Sepaku)

Araneae: Prodidomidae
Molycria voc Deeleman-Reinhold, 2001 (Malay Peninsula, Perhentian island)
Prodidomus wunderlichi Deeleman-Reinhold, 2001 (Thailand, Sam Roi Yot NP)

Araneae: Salticidae
Athamas tahitensis Jendrezejewska, 1995 (Tahiti)
Damoetas christae Proszynski, 2001 (Sabah, Kinabalu)
Damoetas galianoae Proszynski, 2001 (Sabah, Kinabalu)

Araneae: Telemidae
Apneumonella jacobsoni Brignoli, 1977 (Sumatra, Fort de Kock)

Araneae: Tetrablemmidae
Ablemma circumspectans Deeleman-Reinhold, 1980 (Sabah: Kinabalu)
Bacillemma leclerci Deeleman-Reinhold, 1993 (Thailand)
Borneomma delphina Deeleman-Reinhold, 1980 (Irian Jaya: Jayapura)
Borneomma roberti Deeleman-Reinhold, 1980 (Sabah: Kinabalu)

Araneae: Theridiidae
Carniella sumatraensis Wunderlich, 1994 (Sumatra: Ketambe)
Deelemanella borneo Yoshida, 2003 (Sabah, Mt. Kinabalu)
Molione christae Yoshida, 2003 (Sabah, Mt. Kinabalu)
Molione kinabalu Yoshida, 2003 (Sabah, Mt. Kinabalu)

Araneae: Trochanteriidae
Olin platnicki Deeleman-Reinhold, 2001 (Sulawesi, Togian islands)

Mollusca: Hydrocenidae
Georissa pangianensis Maassen, 2000 (Sumatra)

Mollusca: Cyclophoridae
Chamalycaeus kessneri Vermeulen, 1996 (Nusa Penida)
Craspedotropis andrei Vermeulen, 1999 (Borneo)
Craspedotropis juvenilis Vermeulen, 1999 (Borneo)
Cyclotus lepidotus Vermeulen, 1996 (Nusa Penida)

Mollusca: Diplommatinidae
Arinia ascotrochus Vermeulen, 1996 (Borneo)
Arinia bantimurungensis Maassen, 2003 (Sulawesi)
Arinia biplicata Vermeulen, 1996 (Borneo)
Arinia boreoborneensis Vermeulen, 1996 (Borneo)
Arinia brevispira brevispira Vermeulen, 1996 (Borneo)
Arinia brevispira orientalis Vermeulen, 1996 (Borneo)
Arinia clausa Vermeulen, 1996 (Borneo)
Arinia cylindrica cylindrica Vermeulen, 1996 (Borneo)
Arinia cylindrica crassilabris Vermeulen, 1996 (Borneo)
Arinia dentifera Vermeulen, 1996 (Borneo)
Arinia dilata Maassen, 2003 (Sulawesi)
Arinia dioryx Vermeulen, 1996 (Borneo)
Arinia distorta Vermeulen, 1996 (Borneo)
Arinia ferecognita Vermeulen, 1996 (Borneo)
Arinia hoeksemai Maassen, 2003 (Sulawesi)
Arinia jensi Maassen, 2001 (Malaysia)
Arinia kessneri Maassen, 2003 (Sulawesi)
Arinia obesa Vermeulen, 1996 (Borneo)
Arinia oviformis Vermeulen, 1996 (Borneo)
Arinia panhai Maassen, 2001 (Thailand)
Arinia paricostata Vermeulen, 1996 (Borneo)
Arinia pertusa Vermeulen, 1996 (Borneo)
Arinia saeperobustior Vermeulen, 1996 (Borneo)
Arinia simplex Vermeulen, 1996 (Borneo)
Arinia stenotrochus stenotrochus Vermeulen, 1996 (Borneo)
Arinia stenotrochus pachystoma Vermeulen, 1996 (Borneo)
Arinia stenotrochus anisopleuron Vermeulen, 1996 (Borneo)
Arinia streptaxiformis Vermeulen, 1996 (Borneo)
Arinia strophostoma strophosoma Vermeulen, 1996 (Borneo)
Arinia strophostoma fusiformis Vermeulen, 1996 (Borneo)
Arinia toradjensis Maassen, 2003 (Sulawesi)
Arinia turgida Vermeulen, 1996 (Borneo)
Arinia valkenburgi Vermeulen, 1996 (Borneo)
Arinia wasupondensis Maassen, 2003 (Sulawesi)
Diplommatina abundans Maassen, 2002 (Sumatra)
Diplommatina antheae Vermeulen, 1993 (Borneo)

Diplommatina asynaimos Vermeulen, 1993 (Borneo)
Diplommatina aurisdiaboli Vermeulen, 1993 (Borneo)
Diplommatina cacuminulus Vermeulen, 1993 (Borneo)
Diplommatina calvula Vermeulen, 1993 (Borneo)
Diplommatina carinaspinosa Maassen, 2002 (Sumatra)
Diplommatina centralis Vermeulen, 1993 (Borneo)
Diplommatina cyrtorthitis Vermeulen, 1993 (Borneo)
Diplommatina evexa Vermeulen, 1993 (Borneo)
Diplommatina ferrumequinum Vermeulen, 1993 (Borneo)
Diplommatina gadutensis Maassen, 2002 (Sumatra)
Diplommatina goliath Vermeulen, 1996 (Borneo)
Diplommatina karoensis Maassen, 2002 (Sumatra)
Diplommatina lacrimans Vermeulen, 1993 (Borneo)
Diplommatina lygipleura Vermeulen, 1993 (Borneo)
Diplommatina madaiensis Vermeulen, 1993 (Borneo)
Diplommatina maduana nefrens
Vermeulen, 1993 (Borneo)
Diplommatina meijaardi Vermeulen, 1996 (Borneo)
Diplommatina meratusensis Vermeulen, 1993 (Borneo)
Diplommatina miraculumdei Vermeulen, 1993 (Borneo)
Diplommatina oedogaster Vermeulen, 1993 (Borneo)
Diplommatina serempakensis Vermeulen, 1993 (Borneo)
Diplommatina soror Vermeulen, 1993 (Borneo)
Diplommatina stibara Vermeulen, 1993 (Borneo)
Diplommatina strongyla Vermeulen, 1993 (Borneo)
Diplommatina subglaber subglaber
Vermeulen, 1993 (Borneo)
Diplommatina subglaber kakusana
Vermeulen, 1996 (Borneo)
Diplommatina subisensis Vermeulen, 1993 (Borneo)
Diplommatina tiara Vermeulen, 1993 (Borneo)
Diplommatina toretos Vermeulen, 1993 (Borneo)
Diplommatina vanderblommi Maassen, 2002 (Sumatra)
Diplommatina welzeni Vermeulen, 1993 (Borneo)
Diplommatina wilhelminae Maassen, 2002 (Sumatra)
Niahia oberon Vermeulen, 1996 (Borneo)
Opisthostoma acolastron Vermeulen, 1994 (Borneo)
Opisthostoma aetheroscopa Vermeulen, 1991 (Borneo)
Opisthostoma aethoderma Vermeulen, 1994 (Borneo)
Opisthostoma anisopterum Vermeulen, 1994 (Borneo)
Opisthostoma asyndeton Vermeulen, 1994 (Borneo)
Opisthostoma auriforme Vermeulen, 1994 (Borneo)
Opisthostoma ballorum Vermeulen, 1991 (Borneo)
Opisthostoma banki Maassen, 2003 (Sulawesi)
Opisthostoma bihamulatum Vermeulen, 1994 (Borneo)
Opisthostoma brachyacrum tatauense
Vermeulen, 1994 (Borneo)
Opisthostoma brevituba Vermeulen, 1994 (Borneo)
Opisthostoma christae Maassen, 2001 (Malaysia)
Opisthostoma clerxi Maassen, 2002 (Sumatra)
Opisthostoma crassicolle Vermeulen, 1994 (Borneo)
Opisthostoma crassum Vermeulen, 1994 (Borneo)
Opisthostoma cryptodon Vermeulen, 1991 (Borneo)
Opisthostoma cyrtopleuron Vermeulen, 1994 (Borneo)
Opisthostoma dancei dancei Vermeulen, 1994 (Borneo)
Opisthostoma dancei dispersum
Vermeulen, 1994 (Borneo)
Opisthostoma delopterum Vermeulen, 1994 (Borneo)
Opisthostoma devogelii Vermeulen, 1991 (Borneo)
Opisthostoma dihelicton Vermeulen, 1994 (Borneo)
Opisthostoma dipterum Vermeulen, 1994 (Borneo)
Opisthostoma dormani Vermeulen, 1994 (Borneo)
Opisthostoma episomon Vermeulen, 1994 (Borneo)
Opisthostoma gibbosum Vermeulen, 1994 (Borneo)
Opisthostoma goniostoma Vermeulen, 1994 (Borneo)
Opisthostoma henki Maassen, 2002 (Sumatra)
Opisthostoma heteropleuron Vermeulen, 1994 (Borneo)
Opisthostoma inornatum Vermeulen, 1994 (Borneo)
Opisthostoma kitteli Maassen, 2002 (Sumatra)
Opisthostoma lambii Vermeulen, 1991 (Borneo)
Opisthostoma lechria Vermeulen, 1991 (Borneo)
Opisthostoma lissopleuron lissopleuron Vermeulen,
1994 (Borneo)
Opisthostoma lissopleuron bigibbum
Vermeulen, 1994 (Borneo)
Opisthostoma lituus Vermeulen, 1994 (Borneo)
Opisthostoma obliquedentatum
Vermeulen, 1994 (Borneo)
Opisthostoma perglaber Vermeulen, 1994 (Borneo)
Opisthostoma perspectivum Vermeulen, 1994 (Borneo)
Opisthostoma planiapex Vermeulen, 1991 (Borneo)
Opisthostoma ptychodon Vermeulen, 1994 (Borneo)
Opisthostoma pyrgiscus Vermeulen, 1994 (Borneo)
Opisthostoma rotundum Vermeulen, 1994 (Borneo)
Opisthostoma secretum Maassen, 2002 (Sumatra)
Opisthostoma semisolutum Vermeulen, 1994 (Borneo)
Opisthostoma simile Vermeulen, 1994 (Borneo)
Opisthostoma sinyumensis Maassen, 2001 (Malaysia)
Opisthostoma stellasubis Vermeulen, 1994 (Borneo)
Opisthostoma stenotoreton Vermeulen, 1994 (Borneo)
Opisthostoma subconicum Vermeulen, 1994 (Borneo)
Opisthostoma sulcatum Vermeulen, 1994 (Borneo)
Opisthostoma tarphypleura Vermeulen, 1991 (Borneo)
Opisthostoma telestoma Vermeulen, 1991 (Borneo)
Opisthostoma transequatorialis
Vermeulen, 1994 (Borneo)
Opisthostoma tridens Vermeulen, 1991 (Borneo)
Opisthostoma tuba Vermeulen, 1994 (Borneo)

Arinia jensi Maassen, 2001, paratype.

Opisthostoma wallacei teinostoma Vermeulen, 1994 (Borneo)
Opisthostoma wilfordi Vermeulen, 1994 (Borneo)
Palaina adonisi Maassen, 2003 (Sulawesi)
Palaina astenis Vermeulen, 1997 (Bali)
Palaina altumbilicata Maassen, 2003 (Sulawesi)
Palaina tondokensis Maassen, 2003 (Sulawesi)
Palaina monticola Maassen, 2003 (Sulawesi)
Palaina reederi Maassen, 2003 (Sulawesi)
Palaina vulcanicola Vermeulen, 1996 (Bali)
Palaina wezendonki Maassen, 2003 (Sulawesi)

Mollusca: Pupinidae
Callianella incerta Maassen & Kittel, 1996 (Sulawesi)
Moulinsia boucheti Maassen & Kittel, 1996 (Sulawesi)
Pupina acehensis Maassen, 2002 (Sumatra)
Pupina falkneri Maassen, 2002 (Sumatra)
Sulapina theresiae Maassen & Kittel, 1996 (Sulawesi)

Mollusca: Assimineidae
Anaglyphula minutissima Maassen, 2000 (Sumatra)
Anaglyphula whitteni Vermeulen, 1996 (Bali)

Mollusca: Achatinellidae
Tornatellina perinconspicua Vermeulen, 1996 (Bali)

Mollusca: Vertiginidae
Paraboysidia kitteli Maassen, 1999 (Sumatra)
Ptychopatula solemi Maassen, 2000 (Sumatra)
Ptychopatula vermeuleni Maassen, 2000 (Sumatra)

Mollusca: Strobilopsidae
Enteroplax dumogensis Vermeulen, 1992 (Sulawesi)
Eostrobilops triptychus Vermeulen, 1992 (Borneo)

Mollusca: Enidae
Coccoderma semmelinki Maassen, 2002 (Flores)
Coccoderma wilhelminae Maassen, 1998 (Sulawesi)

Mollusca: Clausiliidae
Oospira pyknosoma Gittenberger & Vermeulen, 2001 (Vietnam)

Mollusca: Streptaxidae
Diaphera connectens van Bruggen, 1974 (Philippines, Palawan)
Diaphera helenae Vermeulen, 1990 (Borneo, Sabah)
Diaphera obliquapex van Bruggen, 1974 (Philippines, Palawan)
Diaphera palawanica van Bruggen, 1974 (Philippines, Palawan)
Diaphera wilfordii ectyphus Vermeulen, 1990 (Borneo, Sabah)
Haploptychius juttingae van Bruggen, 1972 (Sulawesi, Sangihe Id.)
Sinoennea karnekampi Maassen, 1999 (Sumatra)

Mollusca: Endodontidae
Philalanka depressispira Vermeulen, 1996 (Java)
Philalanka pusilla Maassen, 2000 (Sumatra)
Philalanka setifera Vermeulen, 1996 (Java)

Mollusca: Charopidae
Teracharopa goudi Maassen, 2000 (Sumatra)
Teracharopa rara Maassen, 2000 (Sumatra)

Mollusca: Euconulidae
Coneuplecta olivacea Vermeulen, 1996 (Java, Nusa Penida, Flores)

Cettia carolinae Rozendaal, 1987, holotype.

Mollusca: Helixarionidae

Geotrochus rimatus Vermeulen, 1997 (Bali)

Liardetia pseudojavana Maassen, 2000 (Sumatra)

Microcystina brunnescens Vermeulen, 1996 (Nusa Penida)

Microcystina chinodiscus Vermeulen, 1996 (Java, Nusa Penida)

Microcystina clarkae Maassen, 2000 (Sumatra)

Rahula moolenbeeki Maassen, 2000 (Sumatra)

Mollusca: Ariophantidae

Asperitas trochus parvinsularis van Bruggen, 1976 (Indonesia, Palue Id. near Flores)

Macrochlamys spiralifer Vermeulen, 1996 (Bali)

Mollusca: Camaenidae

Ganesella sphaerotrochus Vermeulen, 1996 (Bali)

Aves

Chloropsis cochinchinensis auropectus Wells, Dickinson & Dekker, 2003 (Vietnam)

Cettia carolinae Rozendaal, 1987 (Tanimbar)

Ninox ios Rasmussen, 1999 (Sulawesi)

Accipiter virgatus quinquefasciatus Mees, 1984 (Flores)

Monarcha sacerdotum Mees, 1973 (Flores)

Cacatua pastinator transfreta Mees, 1982 (Irian Jaya)

Pisces

Therapon lacustris Mees & Kailola, 1977 (Southern New Guinea)

Therapon transmontanus Mees & Kailola, 1977 (Northern New Guinea)

Therapon obtusifrons Mees & Kailola, 1977 (Northern New Guinea)

Therapon affinis Mees & Kailola, 1977 (Southern New Guinea)

Therapon raymondi Mees & Kailola, 1977 (Southern New Guinea)

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Names of museum staff and associates in bold.

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