
1986 IUCN Red List of Threatened Animals



Digitized by the Internet Archive
in 2010 with funding from
UNEP-WCMC, Cambridge

<http://www.archive.org/details/1986iucnredlisto86iucn>

1542
L

**1986 IUCN RED LIST
OF THREATENED ANIMALS**

Prepared by

**The IUCN Conservation Monitoring Centre
Cambridge U.K.**

**International Union for Conservation of Nature
and Natural Resources**

1986

IUCN

IUCN (International Union for Conservation of Nature and Natural Resources) is a network of governments, nongovernmental organizations (NGOs), scientists and other conservation experts, joined together to promote the protection and sustainable use of living resources

Founded in 1948, IUCN has more than 500 member governments and NGOs in over 116 countries. Its six Commissions consist of more than 2000 experts on threatened species, protected areas, ecology, environmental planning, environmental policy, law and administration, and environmental education.

IUCN monitors the status of ecosystems and species throughout the world; plans conservation action, both at strategic level through the World Conservation Strategy and at the programme level through its programme of conservation for sustainable development; promotes such action by governments, inter-governmental bodies and nongovernmental organisations; and provides the assistance and advice necessary to achieve such action.

THE IUCN CONSERVATION MONITORING CENTRE is the division of the Union that provides a data service to IUCN and to the conservation and development community. CMC is building an integrated and cross-referenced database on animals and plants of conservation concern, on wildlife trade, and on ecosystems (principally protected areas so far). The CMC produces a wide variety of specialist outputs and analyses, as well as major publications such as Red Data Books and Protected Area Directories. Other IUCN Centres focus on Environmental Law, and Conservation for Development. Collectively this information and expertise is used to assist IUCN members to prepare conservation programmes, and to provide information and advice to the conservation and development communities. Should you wish to consult these services please contact the:

IUCN Secretariat, World Conservation Centre
Ave du Mont Blanc, CH-1196 Gland, Switzerland

The designations of geographical entities in this book, and the presentation of the material, do not imply the expression of any opinion whatsoever on the part of IUCN concerning the legal status of any country, territory, or area, or of its authorities, or concerning the delimitation of its frontiers or boundaries.

Published by IUCN, Gland, Switzerland, and Cambridge, U.K.

Prepared with financial support from World Wildlife Fund International, and the United Nations Environment Programme, and published with a grant from World Wildlife Fund U.K.

A contribution to GEMS - the Global Environment Monitoring System.



© 1986 International Union for Conservation of Nature and Natural Resources/United Nations Environment Programme.

ISBN No 2-88032-605-2

Printed by Ziprint Parchment(Oxford)Ltd, 60 Hurst Street, Oxford

Cover Design by James Butler

Cover Photo WWF/GEO/Timm Rautert/BCL

PREAMBLE

The strength of the species conservation argument is dependent on the scientific knowledge available, and the Red Data Books provide us all with a tool to be used for a restricted number of well known species or cases.

It is hoped, with this Threatened Species List, that the huge hidden information base held at the IUCN Conservation Monitoring Centre may be exposed to a wider audience. There is, of course, an inherent problem with any data base of any quality and size; everybody wants access to it instantly, but the reality is that all this hard won information has got to be distilled, manipulated and reproduced in a particular format for any user.

This takes time and time is money, so by exposing the data base one is apparently issuing an invitation to use it, whereas I think we should all be aware that to use it means we have to find the money to pay for its use. It cannot be provided for free!

The great skills of the staff and the huge network of specialists from which the data is acquired, many of whom are members of the Specialist Groups of the Species Survival Commission, are actually worth paying for, painful as this concept might be.

It was with great pleasure that World Wildlife Fund UK agreed to pay for the publication of this species list, to show what the data base holds and, to show the status of the species held, which in itself is of value to a whole range of users.

As one reviews, during this 25th Anniversary Year of the World Wildlife Fund, what has been accomplished in species conservation, it must be said that whilst we have done well in creating an extensive information base, we are sadly still very far away from being in a position to have plans and programmes to ensure the wise management of all these threatened species. Our success in the field and 'in captivity' sometimes obscures this reality!

The reality, in fact, shows the need for greater and more vigorous action but, having said this, I believe we should congratulate the team at the Conservation Monitoring Centre for their sterling effort in the battle for species conservation.

Grenville Ll. Lucas,

Chairman,
Species Survival Commission, IUCN

28th August, 1986

CONTENTS

	Page
Introduction	iii
Inventory Report Form	v
Documents on which the IUCN Red List is based	vii
Taxonomy	viii
IUCN Category Definitions	ix
List of Abbreviations	x
Threatened Species List	
Mammals	2
Birds	15
Reptiles	33
Amphibians	38
Fishes	39
Invertebrates	49
Index	97

Introduction

IUCN has long been known for the compilation of a series of Red Data Books, authoritative international inventories of threatened species. In recent years the Red Data Books have changed in format from the original loose-leaf style which allowed for frequent update of species accounts, to that of bound volumes. In addition, some books have become regional rather than global in approach, e.g. Threatened Birds of Africa and Related Islands. As a result, a list of internationally threatened species has not been readily available from IUCN for some years. This publication has been prepared in response to the increasing demand for such a list, from scientists, educationalists, zoos, the media, and conservation organisations. It is intended that new editions of the list will be published periodically.

The Red Data Book concept, originated by Sir Peter Scott in the mid-1960s, aimed to focus attention on the plight of the earth's vanishing wildlife. The concept has been immensely successful and, two decades later, many national and regional Red Data Books have been published; and many more countries are in the process of compiling their own threatened species lists. National and regional compilations are always likely to be more detailed than the international overview provided by IUCN. Increasingly therefore, IUCN's role will be to provide pointers to the availability of such data sources. Where these exist, IUCN will not duplicate the detailed information they contain, but will list any identified globally threatened taxa on its international list. For example, Australia has in recent years produced several texts detailing the status of its native species. IUCN will include all the relevant threatened Australian species on the international list but will not give high priority to the compilation of detailed data sheets for Australian taxa.

The next generation of Red Data Books prepared by IUCN will thus tend to be shorter, more specific publications highlighting the conservation problems of a group of species, perhaps even a single species, or an area. Such shorter compilations will allow for faster dissemination of conservation data, and will be more responsive to the changing priorities and needs of conservation. Complementing these, the periodic publication of the IUCN list of internationally threatened species will provide an index to the species data held by IUCN.

IUCN's threatened species list is compiled and maintained by the IUCN Conservation Monitoring Centre. For each threatened taxon, the list provides the scientific name, English vernacular name (where known), IUCN category (for definitions see page ix), and a brief description of the animal's distribution. This is followed by an index to the list based on the order, family and generic listing. Vernacular names for major groupings such as monkeys, parrots, and butterflies are also included.

Data upon which the listings are made are gathered from literature searches, and from correspondence with specialists around the world, including those belonging to the Specialist Groups of IUCN's Species Survival Commission.

The number of threatened animal taxa identified by IUCN is 3117, comprised of 385 mammals, 428 birds, 143 reptiles, 46 amphibians, 286 fishes, and 1829 invertebrates. These numbers, however, represent only those taxa whose threatened status has been brought to the attention of IUCN; many, many more taxa, particularly invertebrates are threatened, and going extinct every year unbeknownst to the scientific and conservation communities. Thus the number of threatened taxa identified by IUCN represents only the visible fraction of a much greater problem. The vertebrate listings are based almost entirely on the IUCN Red Data Books. For invertebrates, however, it must be stressed that the list is only provisional, since most species have not yet been subjected to the same review process as has been carried out for the vertebrate groups, apart from those listed in the IUCN Invertebrate Red Data Book and Swallowtail Butterfly Red Data Book. Other invertebrate listings have been taken from correspondence and a number of published sources (noted on page vii).

The threatened species list is constantly under review; as new areas or species groups are surveyed, species may be listed or delisted or categories may change. Since at any one time work is focused on a particular group of species, some parts of the list are more up to date than others. For example, a review of the conservation status of the birds of Africa and related islands was undertaken by IUCN and ICBP (the International Council for Bird Preservation) between 1982 and 1985, leading to the publication of the Bird Red Data Book for Africa. Work is now in progress to assess the conservation status of the birds of the Americas. Information on Asian birds has not therefore been reviewed for some time (although files and correspondence are maintained), and so changes are undoubtedly required.

The need for new information is thus continuous and assistance in providing accurate data always welcome. An inventory report form is detailed on page v and is a guide to the information required by IUCN to assess the international conservation status of a species.

The present list undoubtedly includes a number of errors and omissions, but it is to be hoped that these will stimulate people to send new information to:-

The Species Conservation Monitoring Unit
IUCN Conservation Monitoring Centre
219c Huntingdon Road
Cambridge CB3 0DL
United Kingdom

INVENTORY REPORT FORM

Report to be mailed to SCMU, IUCN Conservation Monitoring Centre, 219(c) Huntingdon Rd, Cambridge, CB3 0DL, U.K.

1. Country

2. Date

3. Reporter Name:

Address:

4. Taxon

Scientific Name:

Common Name:

5. Distribution

Present:

Former:

If possible, please include a map. Is present range preferred or enforced habitat?

6. Population

Estimated numbers in the wild. Indicate date of estimate and describe method of estimation. Are numbers increasing, decreasing or stable?

7. Habitat and Ecology

Biome type. Elevation range. Brief notes about social structure, feeding habits and diet, reproduction (gestation, breeding season, number of young, age of sexual maturation), longevity etc.

8. Scientific interest and potential value

Use in scientific or medical research; commercial value in trade or local economy.

9. Threats to Survival

Eg. habitat destruction, over-exploitation, hybridization, natural disasters, competition for food.

10. Conservation Measures Taken

Legal measures (international conventions, national laws); is law enforced? Protected areas - does it occur in national parks, reserves etc.? If so, please list. Management programmes or research programmes in progress.

11. Conservation Measures Proposed

Same as for 10, but measures that are needed for the conservation of the taxon.

12. Captive Breeding

Numbers in captivity. Does it breed readily in captivity? Where and when?

13. Remarks

Reference citations for description of animal. Comments about related taxa. If the above information concerns a subspecies then brief information should be given about the distribution and status of the species as a whole. Special acknowledgements etc.

14. References

Can be published papers, unpublished manuscripts, or references to correspondence (cited as In litt.).

DOCUMENTS ON WHICH THE IUCN RED LIST IS BASED

The asterisk indicates books currently available from IUCN.

Mammals

Goodwin, H.A. and Holloway, C.W. (1972). Red Data Book, Vol. 1 - Mammalia. Second Edition. IUCN, Morges. (Revisions: 1973 and 1974 by Goodwin, H.A. and Holloway, C.W.; 1976 by Fitter, R.S.R. and Holloway, C.W.; 1978 by Thornback, J.).
Thornback, J. and Jenkins, M. (1982). Terrestrial Mammals. Part VII. In: Threatened Species of Wild Flora and Vertebrate Fauna. Report to the Commission of the European Communities. The Nature Conservancy Council, Great Britain.
Thornback, J. (1984). Wild Cattle, Bison and Buffaloes; their status and potential value. Report to UNEP. IUCN Conservation Monitoring Centre.
*Thornback, J. and Jenkins, M. (1982). The IUCN Mammal Red Data Book. Part 1. The Americas and Australasia. IUCN, Gland.

Birds

King, W.B. (1981). Endangered Birds of the World. The ICBP Bird Red Data Book. Smithsonian Institution Press and ICBP, Washington D.C.
*Collar, N.J. and Stuart, S.N. (1985). Threatened Birds of Africa and Related Islands. The ICBP/IUCN Red Data Book, Part 1. Third Edition. ICBP and IUCN, Cambridge.

Amphibians and Reptiles

*Groombridge, B. (1982). The IUCN Amphibia-Reptilia Red Data Book. Part 1, Testudines, Crocodylia, Rhynchocephalia. IUCN, Gland.
Groombridge, B. (1982). Amphibians and Reptiles. Part IV. In: Threatened Species of Wild Flora and Vertebrate Fauna. Report to the Commission of the European Communities. The Nature Conservancy Council, Great Britain.
Honneger, R. (1975/1979). Red Data Book, Vol. 3 - Amphibia and Reptilia. Second Edition. IUCN, Gland.

Fishes

*Evans, D. (1981). Threatened Fish of Sri Lanka. IUCN Conservation Monitoring Centre, Cambridge.
Evans, D. and Almada-Villela, P. (Unpublished). Threatened Fishes of North America. Draft Document. IUCN Conservation Monitoring Centre.
Miller, R.R. (1977). Red Data Book, Vol. 4 - Pisces. Second Edition. IUCN, Morges.
U.S. Department of the Interior (1986). Endangered and Threatened Wildlife and Plants. Federal Register 50 CFR 17.11 and 17.12: 1-30

Invertebrates

*Collins, N.M. and Morris, M.G. (1985). Threatened Swallowtail Butterflies of the World. The IUCN Red Data Book. IUCN, Gland and Cambridge.
Collins, N.M. and Wells, S.M. (1986). Insects and other Invertebrates as Candidates for the Berne Convention. A Report to the Council of Europe. IUCN Conservation Monitoring Centre.
U.S. Department of the Interior. (1984). Endangered and Threatened Wildlife and Plants; Review of Invertebrate Wildlife for Listing as Endangered or Threatened Species. Federal Register 49(100): 21664-21675.
*Wells, S.M., Pyle, R.M. and Collins, N.M. (1983). The IUCN Invertebrate Red Data Book. IUCN, Gland.

TAXONOMY

The systems of classification and nomenclature principally follow the undermentioned authors.

Mammals

Cabrera, A. (1957-61). Catalogo de los mamiferos de America del Sur. Rev. del Mus. Argent. de Cienc. Nat. 'Bernardino Rivadavia' Cienc. Zool. 4(1,2): 1-732.

Corbet, G.B. and Hill, J.E. (1980). A World List of Mammalian Species. British Museum (Natural History) and Cornell University Press.

Hall, E.R. and Kelson, K.R. (1959). The Mammals of North America. Ronald Press Co., New York.

Honacki, J.H., Kinman, K.E. and Koepl, J.W. (1982). Mammal Species of the World: a taxonomic and geographic reference. Allen Press Inc. and the Association of Systematics Collections, Kansas.

Meester, J. and Setzer, H.W. (Eds) (1971). The Mammals of Africa: an Identification Manual. Smithsonian Institution Press, City of Washington.

Ride, W.D.L. (1970). A Guide to the Native Mammals of Australia. Oxford University Press, Melbourne.

Birds

Morony, J.J., Bock, W.J. and Farrand, J. (1975). Reference List of the Birds of the World. American Museum of Natural History, New York.

Reptiles

Groombridge, B. (1983). World Checklist of Threatened Amphibians and Reptiles. Third Edition. Nature Conservancy Council, London.

Pritchard, P.C.H. (1979). Encyclopaedia of Turtles. T.F.H. Publications, New Jersey and Hong Kong.

Wermuth, H. and Mertens, R. (1977). Testudines, Crocodylia, Rhynchocephalia. Das Tierreich 100: 1-174.

Amphibians

Groombridge, B. (1983). World Checklist of Threatened Amphibians and Reptiles. Third Edition. Nature Conservancy Council, London.

Fishes

Nelson, J.S. (1984). Fishes of the World. Second Edition. John Wiley and Sons, New York, Chichester, Brisbane, Toronto, Singapore.

Robins, C.R., Bailey, R.M., Bond, C.E., Brooker, J.R., Lachner, E.A., Lea, R.N., Scott, W.B. (1980). A List of Common and Scientific Names of Fishes from the United States and Canada. Fourth Edition. American Fisheries Society Special Publication No. 12.

Invertebrates

Hancock, D.L. (1983). Classification of the Papilionidae (Lepidoptera): a phylogenetic approach. Smithersia 2: 1-48.

Parker, S.B. (1982). Synopsis and Classification of Living Organisms. McGraw-Hill, New York.

IUCN THREATENED SPECIES CATEGORIES

Species identified as threatened by IUCN are assigned a category indicating the degree of threat. Definitions are as follows:

EXTINCT (Ex)

Species not definitely located in the wild during the past 50 years (criterion as used by the Convention on International Trade in Endangered Species of Wild Fauna and Flora).

N.B. On a few occasions, the category Ex? has been assigned; this denotes that it is virtually certain that the taxon has recently become extinct.

ENDANGERED (E)

Taxa in danger of extinction and whose survival is unlikely if the causal factors continue operating.

Included are taxa whose numbers have been reduced to a critical level or whose habitats have been so drastically reduced that they are deemed to be in immediate danger of extinction. Also included are taxa that may be extinct but have definitely been seen in the wild in the past 50 years.

VULNERABLE (V)

Taxa believed likely to move into the 'Endangered' category in the near future if the causal factors continue operating.

Included are taxa of which most or all the populations are decreasing because of over-exploitation, extensive destruction of habitat or other environmental disturbance; taxa with populations that have been seriously depleted and whose ultimate security has not yet been assured; and taxa with populations that are still abundant but are under threat from severe adverse factors throughout their range.

N.B. In practice, 'Endangered' and 'Vulnerable' categories may include, temporarily, taxa whose populations are beginning to recover as a result of remedial action, but whose recovery is insufficient to justify their transfer to another category.

RARE (R)

Taxa with small world populations that are not at present 'Endangered' or 'Vulnerable', but are at risk.

These taxa are usually localised within restricted geographical areas or habitats or are thinly scattered over a more extensive range.

INDETERMINATE (I)

Taxa known to be 'Endangered', 'Vulnerable' or 'Rare' but where there is not enough information to say which of the three categories is appropriate.

INSUFFICIENTLY KNOWN (K)

Taxa that are suspected but not definitely known to belong to any of the above categories, because of lack of information.

THREATENED (T)

Threatened is a general term to denote species which are 'Endangered', 'Vulnerable', 'Rare', 'Indeterminate', or 'Insufficiently Known' and should not be confused with the use of the same term by the U.S. Office of Endangered Species. In this volume it is used to identify taxa comprised of several sub-taxa which have differing status categories.

COMMERCIALLY THREATENED (CT)

Taxa not currently threatened with extinction, but most or all of whose populations are threatened as a sustainable commercial resource, or will become so, unless their exploitation is regulated.

This category applies only to taxa whose populations are assumed to be relatively large.

N.B. In practise, this category has only been used for marine species of commercial importance that are being overfished in several parts of their ranges.

ABBREVIATIONS

Arch.	Archipelago
Eq. Guinea	Equatorial Guinea
F.R.G.	Federal Republic of Germany
I.	Island
Is	Islands
O.	Ocean
sp.	Unnamed species
U.A.E.	United Arab Emirates
U.K.	United Kingdom
U.S.A.	United States of America
U.S.S.R.	Union of Soviet Socialist Republics
[]	Former Distribution
*	An important, introduced population

**1986 IUCN RED LIST
OF THREATENED SPECIES**

Phylum CHORDATA

CLASS MAMMALIA

Order MONOTREMATA

Family Tachyglossidae

Zaglossus bruijnii

V New Guinea

Long-beaked Echidna

Order MARSUPIALIA

Family Macropodidae

Bettongia lesueurBettongia penicillataCaloprymnus campestrisDendrolagus dorianus notatusDendrolagus goodfellowi shawmayeriDorcopsis atrataDorcopsulus macleayiLagorchestes asomatusLagorchestes hirsutusLagorchestes leporidesLagostrophus fasciatusMacropus greyiOnychogalea fraenataOnychogalea lunataPetrogale sp. nov.Potorous longipesPotorous platyops

Burrowing Bettong
 Brush-tailed Bettong
 Desert Rat-kangaroo
 Doria's Tree-kangaroo
 Goodfellow's Tree-kangaroo
 Black Dorcopsis Wallaby
 Papuan Dorcopsis
 Central Hare-wallaby
 Rufous Hare-wallaby
 Eastern Hare-wallaby
 Banded Hare-wallaby
 Toolache Wallaby
 Bridled Naitail Wallaby
 Crescent Naitail Wallaby
 Proserpine Rock-wallaby
 Long-footed Potoroo
 Broad-faced Potoroo

R Australia
 E Australia
 I Australia
 V New Guinea
 V Papua New Guinea
 R Papua New Guinea
 R Papua New Guinea
 EX [Australia]
 R Australia
 EX [Australia]
 R Australia
 EX [Australia]
 E Australia
 EX [Australia]
 R Australia
 I Australia
 EX [Australia]

Family Phalangeridae

Phalanger interpositusPhalanger tullulalaePhalanger rufoniger

Stein's Cuscus
 Woodlark Island Cuscus
 Black-spotted Cuscus

R New Guinea
 R Papua New Guinea
 R New Guinea

Family Petauridae

Gymnobelideus leadbeateri

Leadbeater's Possum

E Australia

Family Vombatidae

Lasiiorhinus krefftii

Northern Hairy-nosed Wombat

E Australia

Family Peramelidae

Chaeropus ecaudatus
Echymipera clara
Perameles bougainville
Perameles eremiana
Pig-footed Bandicoot
White-lipped Bandicoot
Western Barred Bandicoot
Desert Bandicoot

EX [Australia]
R New Guinea
R Australia
EX [Australia]

Family Thylacomyidae

Macrotis lagotis
Macrotis leucura
Greater Bilby
Lesser Bilby

E Australia
EX [Australia]

Family Dasyuridae

Antechinus apicalis
Phascogale calura
Sminthopsis douglasi
Sminthopsis longicaudata
Sminthopsis psammophila
Dibbler
Red-tailed Phascogale
Julia Creek Dunnart
Long-tailed Dunnart
Sandhill Dunnart

I Australia
I Australia
I Australia
K Australia
K Australia

Family Myrmecobiidae

Myrmecobius fasciatus
Numbat

E Australia

Family Thylacinidae

Thylacinus cynocephalus
Thylacine

EX [Australia]

Order INSECTIVORA

Family Solenodontidae

Solenodon cubanus
Solenodon paradoxus
Cuban Solenodon
Haitian Solenodon

E Cuba
E Hispaniola

Family Chrysochloridae

Amblysomus julianae
Chrysothalax trevelyani
Juliana's Golden Mole
Giant Golden Mole

R South Africa
E South Africa

Family Erinaceidae

Podogymnura truei
Mindanao Gymnure

V Philippines

Family Talpidae

Desmana moschata
Galemys pyrenaicus
Russian Desman
Pyrenean Desman

V U.S.S.R.
V France, Portugal, Spain

Family Soricidae

Crocidura maguassensis
Maguassie Musk Shrew

R South Africa, Zimbabwe

Order CHIROPTERA**Family Pteropodidae**

<u>Pteropus mariannus</u>	Marianas Flying Fox	V	Marianas
<u>Pteropus niger</u>	Mauritian Flying Fox	R	Mauritius
<u>Pteropus rodricensis</u>	Rodrigues Flying Fox	E	Rodrigues
<u>Pteropus tokudae</u>	Guam Flying Fox	E	Guam

Family Craseonycteridae

<u>Craseonycteris thonglongyai</u>	Kitti's Hog-nosed Bat	K	Thailand
------------------------------------	-----------------------	---	----------

Family Megadermatidae

<u>Macroderma gigas</u>	Ghost Bat	V	Australia
-------------------------	-----------	---	-----------

Family Rhinolophidae

<u>Hipposideros ridleyi</u>	Singapore Roundleaf Horseshoe Bat	E	Singapore, Peninsula Malaysia
-----------------------------	-----------------------------------	---	-------------------------------

Family Vespertilionidae

<u>Lasiurus cinereus semotus</u>	Hawaiian Hoary Bat	I	U.S.A.
<u>Myotis grisescens</u>	Grey Bat	E	U.S.A.
<u>Myotis sodalis</u>	Indiana Bat	V	U.S.A.
<u>Plecotus townsendii ingens</u>	Ozark Big-eared Bat	I	U.S.A.
<u>Plecotus townsendii virginianus</u>	Virginia Big-eared Bat	E	U.S.A.

Order PRIMATES**Family Lemuridae**

<u>Hapalemur griseus</u>	Grey Gentle Lemur	K	Madagascar
<u>Hapalemur simus</u>	Broad-nosed Gentle Lemur	E	Madagascar
<u>Lemur catta</u>	Ring-tailed Lemur	K	Madagascar
<u>Lemur coronatus</u>	Crowned Lemur	K	Madagascar
<u>Lemur macaco flavifrons</u>	Sclater's Lemur	E	Madagascar
<u>Lemur macaco macaco</u>	Black Lemur	V	Madagascar
<u>Lemur mongoz</u>	Mongoose Lemur	V	Madagascar, Comoro Is
<u>Lemur rubriventer</u>	Red-bellied Lemur	I	Madagascar
<u>Lepilemur dorsalis</u>	Grey-backed Sportive Lemur	K	Madagascar
<u>Lepilemur edwardsi</u>	Milne-Edwards' Sportive Lemur	K	Madagascar
<u>Lepilemur leucopus</u>	White-footed Sportive Lemur	K	Madagascar
<u>Lepilemur microdon</u>	Microdon (?) Sportive Lemur	K	Madagascar
<u>Lepilemur mustelinus</u>	Weasel Lemur	K	Madagascar
<u>Lepilemur ruficaudatus</u>	Red-tailed Sportive Lemur	K	Madagascar
<u>Lepilemur septentrionalis</u>	Northern Sportive Lemur	K	Madagascar
<u>Varecia variegata</u>	Ruffed Lemur	I	Madagascar

Family Cheirogaleidae

<u>Allocebus trichotis</u>			
<u>Microcebus coquereli</u>		Hairy-eared Dwarf Lemur	E Madagascar
<u>Phaner furcifer</u>		Coquerel's Dwarf Lemur	K Madagascar
		Fork-marked Lemur	K Madagascar

Family Indridae

<u>Avahi laniger</u>		Woolly Lemur	K Madagascar
<u>Indri indri</u>		Indris	E Madagascar
<u>Propithecus diadema</u>		Diademed Sifaka	V Madagascar
<u>Propithecus verreauxi</u>		Verreaux's Sifaka	K Madagascar

Family Daubentoniidae

<u>Daubentonia madagascariensis</u>		Aye-aye	E Madagascar
-------------------------------------	--	---------	--------------

Family Tarsiidae

<u>Tarsius bancanus borneanus</u>		Bornean Tarsier	I Borneo
<u>Tarsius sylvaticus</u>		Philippine Tarsier	E Philippines

Family Cebidae

<u>Alouatta fusca</u>		Brown Howler Monkey	I Bolivia, Brazil
<u>Alouatta villosa</u>		Guatemalan Black Howler Monkey	I Belize, Guatemala, Mexico
<u>Ateles belzebuth</u>		Long-haired Spider Monkey	V South America
<u>Ateles fusciceps</u>		Brown-headed Spider Monkey	I Colombia, Ecuador, Panama
<u>Ateles geoffroyi</u>		Geoffroy's Spider Monkey	V Central America, Mexico
<u>Ateles paniscus</u>		Black Spider Monkey	V South America
<u>Brachyteles arachnoides</u>		Woolly Spider Monkey	E Brazil
<u>Cacajao calvus</u>		Red & White Uakari	V Brazil, Colombia, Peru
<u>Cacajao melanocephalus</u>		Black-headed Uakari	V Brazil, Colombia, Venezuela
<u>Callicebus personatus</u>		Masked Titi	V Brazil
<u>Chiropotes albinasus</u>		White-nosed Saki	V Brazil
<u>Chiropotes satanas satanas</u>		Southern Bearded Saki	E Brazil
<u>Leothrix flavicauda</u>		Yellow-tailed Woolly Monkey	E Ecuador, Peru
<u>Leothrix lagothericha</u>		Woolly Monkey	V South America
<u>Saimiri oerstedii</u>		Central American Squirrel Monkey	E Costa Rica, Panama

Family Callitrichidae

<u>Callimico goeldii</u>		Goeldi's Marmoset	R South America
<u>Callithrix argentata leucippe</u>		White Marmoset	V Brazil
<u>Callithrix aurita</u>		Buffy-tufted-ear Marmoset	E Brazil
<u>Callithrix flaviceps</u>		Buffy-headed Marmoset	E Brazil
<u>Callithrix humeralifer</u>		Tassel-eared Marmoset	V Brazil

<u>Leontopithecus rosalia</u>	Golden Lion Tamarin	E	Brazil
<u>Leontopithecus chrysomelas</u>	Golden-headed Lion Tamarin	E	Brazil
<u>Leontopithecus chrysopygus</u>	Golden-rumped Lion Tamarin	E	Brazil
<u>Saguinus bicolor</u>	Bare-faced Tamarin	I	Brazil, Peru
<u>Saguinus imperator</u>	Emperor Tamarin	I	Bolivia, Brazil, Peru
<u>Saguinus leucopus</u>	White-footed Tamarin	V	Colombia
<u>Saguinus oedipus oedipus</u>	Cotton-top Tamarin	E	Colombia
Family Cercopithecidae			
<u>Allenopithecus nigroviridis</u>	Allen's Swamp Monkey	K	Congo, Zaire
<u>Cercocebus aterrimus</u>	Black Mangabey	K	Angola, Zaire
<u>Cercocebus galeritus galeritus</u>	Tana River Mangabey	E	Kenya
<u>Cercocebus torquatus</u>	Collared Mangabey	V	West Africa
<u>Cercopithecus diana</u>	Diana Monkey	V	West Africa
<u>Cercopithecus dryas</u>	Dryas Guenon	K	Zaire
<u>Cercopithecus erythrogaster</u>	White-throated Guenon	V	Benin, Nigeria
<u>Cercopithecus erythrotis</u>	Russet-eared Guenon	V	Cameroon, Fernando Po, Nigeria
<u>Cercopithecus hamlyni</u>	Owl-faced Guenon	K	Rwanda, Uganda, Zaire
<u>Cercopithecus lhoesti</u>	L'hoest's Monkey	V	Burundi, Rwanda, Uganda, Zaire
<u>Cercopithecus preussi</u>	Preuss's Guenon	V	Cameroon, Fernando Po, Nigeria
<u>Cercopithecus salongo</u>	Salongo Guenon	K	Zaire
<u>Colobus badius badius</u>	Bay Colobus	V	West Africa
<u>Colobus badius bouvieri</u>	Bouvier's Red Colobus	K	Congo
<u>Colobus badius foai</u>	Foa Red Colobus	K	Zaire
<u>Colobus badius gordonorum</u>	Uhehe Red Colobus	E	Tanzania
<u>Colobus badius kirkii</u>	Zanzibar Red Colobus	E	Zanzibar
<u>Colobus badius oustaleti</u>	Oustalet's Red Colobus	K	Sudan, Zaire
<u>Colobus badius pennanti</u>	Pennant's Red Colobus	V	Fernando Po
<u>Colobus badius preussi</u>	Preuss's Red Colobus	E	Cameroon
<u>Colobus badius temminckii</u>	Western Red Colobus	K	West Africa
<u>Colobus badius tephrosceles</u>	Uganda Red Colobus	K	East Africa
<u>Colobus badius rufomitratu</u>	Tana River Red Colobus	E	Kenya
<u>Colobus badius waldfreni</u>	Miss Waldron's Bay Colobus	E	Ghana, Ivory Coast
<u>Colobus satanas</u>	Black Colobus	V	Cameroon, Congo, Eq. Guinea, Gabon
<u>Macaca pagensis</u>	Mentawai Islands Macaque	I	Mentawai Is
<u>Macaca silenus</u>	Lion-tailed Macaque	E	India
<u>Macaca sylvanus</u>	Barbary Macaque	V	Algeria, Gibraltar*, Morocco
<u>Nasalis larvatus</u>	Proboscis Monkey	V	Borneo
<u>Papio leucophaeus</u>	Drill	E	Cameroon, Fernando Po, Nigeria
<u>Papio sphinx</u>	Mandrill	V	Cameroon, Congo, Eq. Guinea, Gabon

Presbytis geei
Presbytis johni
Presbytis potenziani
Procolobus verus
Pygathrix nemaeus
Rhinopithecus roxellanae
Simias concolor

Golden Langur
 Nilgiri Langur
 Mentawai Islands Langur
 Olive Colobus
 Douc Langur
 Snub-nosed Langur
 Pig-tailed Langur

R Bhutan, India
 V India
 I Mentawai Is
 R West Africa
 E China, Laos, Vietnam
 R China
 E Mentawai Is

Family Hylobatidae

Hylobates concolor
Hylobates klossi
Hylobates moloch
Hylobates pileatus

Black Gibbon
 Kloss's Gibbon
 Javan Gibbon
 Pileated Gibbon

I China, Indochina
 V Mentawai Is
 E Indonesia
 E Indochina, Thailand

Family Pongidae

Gorilla gorilla
Gorilla gorilla beringei
Pan paniscus
Pan troglodytes
Pongo pygmaeus

Gorilla
 Mountain Gorilla
 Pygmy Chimpanzee
 Chimpanzee
 Orang-utan

V Equatorial Africa
 E Rwanda, Uganda, Zaire
 V Zaire
 V Equatorial Africa
 E Borneo, Sumatra

Order EDENTATA

Family Myrmecophagidae

Myrmecophaga tridactyla

Giant Anteater

V Central & South America

Family Bradypodidae

Bradypus torquatus

Maned Sloth

E Brazil

Family Dasypodidae

Chlamyphorus retusus
Chlamyphorus truncatus
Priodontes giganteus
Tolypeutes tricinctus

Burmeister's Armadillo
 Pink Fairy Armadillo
 Giant Armadillo
 Brazilian Three-banded Armadillo

K Argentina, Bolivia, Paraguay
 K Argentina
 V South America
 I Brazil

Order LAGOMORPHA

Family Ochotonidae

Prolagus sardus

Sardinian Pika

Ex [Sardinia, Corsica]

Family Leporidae

Bunolagus monticularis
Caprolagus hispidus
Nesolagus netscheri
Pentalagus furnessi
Romerolagus diazi

Riverine Rabbit
 Hispid Hare
 Sumatran Short-eared Rabbit
 Amami Rabbit
 Volcano Rabbit

E South Africa
 E Himalayan foothills
 R Sumatra
 E Ryukyu Is
 E Mexico

Order RODENTIA**Family Sciuridae**

Cynomys parvidens
Marmota vancouverensis
Marmota menzbieri
Sciurus niger cinereus
 Family Heteromyidae
Dipodomys elator
Dipodomys heermanni morroensis

Utah Prairie Dog
 Vancouver Island Marmot
 Menzbier's Marmot
 Delmarva Fox Squirrel
 Texas Kangaroo Rat
 Morro Bay Kangaroo Rat

V U.S.A.
 E Canada
 V U.S.S.R.
 E U.S.A.
 R U.S.A.
 E U.S.A.

Family Cricetidae

Pitymys bavaricus
Reithrodontomys raviventris

Ex [F.R.G.]
 E U.S.A.

Family Muridae

Batomys granti
Conilurus albipes
Leporillus apicalis
Leporillus conditor
Microtus breweri
Notomys amplus
Notomys aquilo
Notomys longicaudatus
Notomys macrotis
Notomys mordax
Oryzomys argentatus
Pseudomys fieldi
Pseudomys oralis
Pseudomys praeconis
Tokudaia osimensis muenninki
Xeromys myoides
Zyzomys pedunculatus

Luzon Forest Rat
 Rabbit-eared Tree-rat
 Lesser Stick-nest Rat
 Greater Stick-nest Rat
 Beach Vole
 Short-tailed Hopping-mouse
 Northern Hopping-mouse
 Long-tailed Hopping-mouse
 Big-eared Hopping-mouse
 Darling Downs Hopping-mouse
 Silver Rice Rat
 Alice Springs Mouse
 Hastings River Mouse
 Shark Bay Mouse
 Ryukyu Spiny Rat
 False Water-rat
 Central Rock-rat

I Philippines
 Ex [Australia]
 Ex [Australia]
 R Australia
 R U.S.A.
 Ex [Australia]
 K Australia
 Ex [Australia]
 Ex [Australia]
 Ex [Australia]
 I U.S.A.
 Ex [Australia]
 I Australia
 R Australia
 I Ryukyu Is
 K Australia
 I Australia

Family Erithizontidae

Chaetomys subspinosus

Thin-spined Porcupine

I Brazil

Family Chinchillidae

Chinchilla brevicaudata
Chinchilla lanigera

Short-tailed Chinchilla
Long-tailed Chinchilla

I Andes
I Chile

Family Capromyidae

Capromys angelcabrerai
Capromys auritus
Capromys garridoi
Capromys melanurus
Capromys nanus
Capromys sanfelipensis
Geocapromys brownii
Geocapromys ingrahami
Plagiodontia aedium

Cabrera's Hutia
Large-eared Hutia
Garrido's Hutia
Bushy-tailed Hutia
Dwarf Hutia
Little Earth Hutia
Jamaican Hutia
Bahamian Hutia
Hispaniolan Hutia

E Cuba
E Cuba
I Cuba
I Cuba
E Cuba
E Cuba
I Jamaica
R Bahamas
I Hispaniola

Order CETACEA

Family Platanistidae

Lipotes vexillifer
Platanista indi

Beiji Dolphin
Indus Dolphin

E China
E India, Pakistan

Family Delphinidae

Phocoena sinus

Vaquita

V Mexico

Family Ziphiidae

Hyperoodon ampullatus

Northern Bottlenose Whale

V Arctic, North Atlantic Ocean &
North Pacific Ocean

Family Balaenopteridae

Balaenoptera musculus
Balaenoptera physalus
Megaptera novaeangliae

Blue Whale
Fin Whale
Humpback Whale

E All Oceans
V All Oceans
E All Oceans

Family Balaenidae

Balaena mysticetus
Eubalaena glacialis

Bowhead Whale
Black Right Whale

E Arctic Ocean
E Temperate Seas

Order CARNIVORA

Family Canidae

<u>Atelocynus microtis</u>	Small-eared Dog	K	South America
<u>Canis lupus</u>	Grey Wolf	V	North America, Middle East, Eurasia
<u>Canis rufus</u>	Red Wolf	E	U.S.A.
<u>Canis simensis</u>	Simien Fox	E	Ethiopia
<u>Chrysocyon brachyurus</u>	Maned Wolf	V	South America
<u>Cuon alpinus</u>	Dhole	V	Asia
<u>Dusicyon australis</u>	Falkland Island Wolf	EX	[Falkland Is]
<u>Lycaon pictus</u>	African Wild Dog	V	Subsaharan Africa
<u>Speothos venaticus</u>	Bush Dog	V	South America

Family Ursidae

<u>Ailuropoda melanoleuca</u>	Giant Panda	R	China
<u>Melursus ursinus</u>	Sloth Bear	I	India, Nepal, Sri Lanka
<u>Selenarctos thibetanus gedrosianus</u>	Baluchistan Bear	E	Iran, Pakistan
<u>Tremarctos ornatus</u>	Spectacled Bear	V	South America
<u>Ursus arctos nelsoni</u>	Mexican Grizzly Bear	EX	[Mexico, U.S.A.]
<u>Ursus maritimus</u>	Polar Bear	V	Arctic

Family Mustelidae

<u>Lutra felina</u>	Marine Otter	V	Chile, Peru, [Argentina]
<u>Lutra longicaudis longicaudis</u>	La Plata Otter	V	South America
<u>Lutra lutra lutra</u>	European Otter	V	Eurasia
<u>Lutra provocax</u>	Southern River Otter	I	Argentina, Chile
<u>Mustela nigripes</u>	Black-footed Ferret	E	U.S.A.
<u>Pteronura brasiliensis</u>	Giant Otter	V	South America

Family Viverridae

<u>Cryptoprocta ferox</u>	Fossa	V	Madagascar
<u>Eupleres goudotii</u>	Falanouc	K	Madagascar
<u>Fossa fossa</u>	Malagasy Civet	K	Madagascar
<u>Macrogalidia musschenbroeki</u>	Celebes Giant Palm Civet	R	Sulawesi
<u>Viverra megaspila civettina</u>	Matabar Large Spotted Civet	E	India

Family Herpestidae

<u>Galidictis fasciata</u>	Malagasy Broad-striped Mongoose	K	Madagascar
<u>Salanoia concolor</u>	Malagasy Brown-tailed Mongoose	K	Madagascar

Family Hyaenidae

Hyaena brunnea
Hyaena hyaena barbara

Family Felidae

Acinonyx jubatus
Acinonyx jubatus venaticus
Felis badia
Felis caracal michaelis
Felis concolor coryi
Felis concolor cougar
Felis jacobita
Felis margarita scheffeli
Felis marmorata
Felis pardalis
Felis pardina
Felis planiceps
Felis temmincki
Felis tigrina
Felis wiedii
Felis yagouaroundi
Neofelis nebulosa
Panthera leo persica
Panthera onca
Panthera pardus
Panthera tigris
Panthera uncia
Prionailurus iriomotensis

Order PINNIPEDIA

Family Otariidae

Arctocephalus philippii
Arctocephalus townsendi
Odobenus rosmarus laptevi
Zalophus californianus japonicus

Family Phocidae

Monachus monachus
Monachus schauinslandi
Monachus tropicalis
Phoca hispida saimensis

Brown Hyaena
Barbary Hyaena

Cheetah
Asiatic Cheetah
Bornean Bay Cat
Turkmenian Caracal Lynx
Florida Cougar
Eastern Cougar
Andean Cat
Pakistan Sand Cat
Marbled Cat
Ocelot
Pardel Lynx
Flat-headed Cat
Asiatic Golden Cat
Little Spotted Cat
Margay
Jaguarundi
Clouded Leopard
Asiatic Lion
Jaguar
Leopard
Tiger
Snow Leopard
Iriomote Cat

Juan Fernandez Fur Seal
Guadalupe Fur Seal
Laptev Walrus
Japanese Sea Lion

Mediterranean Monk Seal
Hawaiian Monk Seal
Caribbean Monk Seal
Saimaa Seal

V Southern Africa
E Algeria, Morocco, Tunisia

V Africa, Middle East, Iran
E Iran
R Borneo
R U.S.S.R.
E U.S.A.
E Canada, U.S.A.
R Andes
E Pakistan
I Asia
V U.S.A., Central & South America
E Portugal, Spain
I South-east Asia
I Asia
V Central & South America
V Central & South America
I U.S.A., Central & South America
V Asia
E India
V U.S.A., Central & South America
V Africa, Middle East, Asia
E Asia
E Asia
E Ryukyu Is

V Chile
V Mexico, U.S.A.
K U.S.S.R.
E Japan, North & South Korea

E Mediterranean & Mauritanian coasts
E Hawaii
Ex? [Caribbean]
R Finland

Order PROBOSCIDEA

Family Elephantidae

- Elephas maximus*
- Loxodonta africana*

- Asian Elephant
- African Elephant

- E Asia
- V Africa

Order SIRENIA

Family Dugongidae

- Dugong dugon*

- Dugong

- V Coastal Indian Ocean & Eastern Pacific Ocean

- Hydrodamalis gigas*

- Steller's Sea Cow

- EX [Bering Sea, North Pacific Ocean]

Family Trichechidae

- Trichechus inunguis*

- Amazonian Manatee

- V Amazon basin
- V Caribbean & South American Coasts & Rivers

- Trichechus manatus*

- Caribbean Manatee

- Trichechus senegalensis*

- West African Manatee

- V West Africa

Order PERISSODACTYLA

Family Equidae

- Equus africanus*

- E North Africa

- Equus grevyi*

- E Ethiopia, Kenya, [Somalia]

- Equus hemionus*

- V Asia

- Equus hemionus hemippus*

- E Mesopotamia

- Equus hemionus khur*

- E Pakistan

- Equus przewalskii*

- EX? [China, Mongolia]

- Equus quagga*

- Quagga

- EX [South Africa]

- Equus zebra hartmannae*

- Hartmann's Mountain Zebra

- V Angola, Namibia

- Equus zebra zebra*

- Cape Mountain Zebra

- E South Africa

Family Tapiridae

- Tapirus bairdii*

- Central American Tapir

- V Central & North-west South America
- E South-east Asia

- Tapirus indicus*

- Malayan Tapir

- V North-west South America

- Tapirus pinchaque*

- Mountain Tapir

Family Rhinocerotidae

- Ceratotherium simum cottoni*

- Northern Square-lipped Rhinoceros

- E Zaire

- Diceros bicornis*

- Black Rhinoceros

- E Africa

- Didermocerus sumatrensis*

- Sumatran Rhinoceros

- E South-east Asia

- Rhinoceros sondaicus*

- Javan Rhinoceros

- E Java

- Rhinoceros unicornis*

- Great Indian Rhinoceros

- E India, Nepal

Order ARTIODACTYLA

Family Suidae

Babirusa
Babirusa babyrussa
Sus salvanus

Babirusa
Pygmy Hog

V Sulawesi
E [Bangladesh], India, Nepal

Family Tayassuidae

Catagonus wagneri

Chacoan Peccary

V Argentina, Bolivia, Paraguay

Family Hippopotamidae

Choeropsis liberiensis

Pygmy Hippopotamus

V West Africa

Family Camelidae

Camelus bactrianus
Vicugna vicugna

Wild Bactrian Camel
Vicuna

V China, Mongolia
V Andes

Family Cervidae

Axis calamianensis
Axis kuhli
Blastocercus dichotomus
Cervus albirostris
Cervus duvauceli
Cervus elaphus bactrianus
Cervus elaphus barbarus
Cervus elaphus corsicanus
Cervus elaphus hangly
Cervus elaphus macneilli
Cervus elaphus wallichi
Cervus elaphus yarkandensis
Cervus eldi eldi
Cervus eldi siamensis
Cervus nippon grassianus
Cervus nippon keramae
Cervus nippon kopschi
Cervus nippon mandarinus
Cervus nippon taiouanus
Dama mesopotamica
Hippocamelus antisensis
Hippocamelus bisulcus
Moschus chrysogaster (subspecies)

Calamian Deer
Kuhl's Deer
Marsh Deer
Thorold's Deer
Swamp Deer
Bactrian Deer
Barbary Deer
Corsican Red Deer
Hangul
M'Neill's Deer
Shou
Yarkand Deer
Manipur Brow-antlered Deer
Thailand Brow-antlered Deer
Shansi Sika
Ryukyu Sika
South China Sika
North China Sika
Formosan Sika
Persian Fallow Deer
North Andean Huemul
South Andean Huemul
Himalayan subspecies of Musk Deer

V Philippines
R Bawean I.
V Central South America
I China
E India, Nepal
E Afghanistan, U.S.S.R.
V Algeria, Tunisia
E [Corsica], Sardinia
E India
I China
E China, Bhutan
E China
E India
E South-east Asia
E China
E Ryukyu Is
E China
E China
E Taiwan
E Mesopotamia
V North Andes
E South Andes
V Himalayas

Muntiacus crinifrons
Muntiacus feae
Odocoileus hemionus cerrosensis
Odocoileus virginianus clavium
Ozotoceros bezoarticus celer
Pudu mephistophiles

Family Antilocapridae

Antilocapra americana peninsularis
Antilocapra americana sonoriensis

Family Bovidae

Addax nasomaculatus
Aepyceros melampus petersi
Alcelaphus buselaphus swaynei
Alcelaphus buselaphus tora
Ammodorcas clarkei
Ammotragus lervia
Bos gaurus
Bos grunniens
Bos javanicus
Bos sauveli
Bubalus bubalis
Bubalus depressicornis
Bubalus mindorensis
Bubalus quarlesi
Budorcas taxicolor bedfordi
Budorcas taxicolor tibetana
Capra falconeri
Capra falconeri megaceros
Capra pyrenaica pyrenaica
Capra wylie
Capricornis sumatraensis sumatraensis
Cephalophus adersi
Cephalophus jentinki
Cephalophus spadix
Cephalophus zebra
Damaliscus dorcas dorcas
Damaliscus hunteri
Dorcacragus megalotis

Black Muntjac
 Fea's Muntjac
 Cedros Island Mule Deer
 Key Deer
 Argentinian Pampas Deer
 Northern Pudu

Lower California Pronghorn
 Sonoran Pronghorn

Addax
 Black-faced Impala
 Swayne's Hartebeest
 Tora Hartebeest
 Dibatag
 Barbary Sheep
 Gaur
 Wild Yak
 Banteng
 Kouprey
 Wild Asiatic Water Buffalo
 Lowland Anoa
 Tamaraw
 Mountain Anoa
 Golden Takin
 Szechwan Takin
 Markhor
 Straight-horned Markhor
 Pyrenean Ibx
 Walia Ibx
 Sumatran Serow
 Ader's Duiker
 Jentink's Duiker
 Abbott's Duiker
 Zebra Duiker
 Bontebok
 Hunter's Antelope
 Beira Antelope

I China
 E Burma, Thailand
 R Mexico
 R U.S.A.
 E Argentina
 I Andes

E Mexico
 E Mexico, U.S.A.

E Sahara/Sahel
 E Angola, Namibia
 E Ethiopia, Somalia
 E Egypt, Ethiopia, Sudan
 V Ethiopia, Somalia
 V Sahara/Sahel
 V South-east Asia
 E Central Asia
 V South-east Asia
 E Indochina
 E India, Nepal
 E Sulawesi
 E Philippines
 E Sulawesi
 R China
 I China
 V West Himalayas
 E Afghanistan, Pakistan
 E Spain
 E Ethiopia
 E Sumatra
 V Kenya, Tanzania, Zanzibar
 E Ivory Coast, Liberia
 K Tanzania
 I Ivory Coast, Liberia, Sierra Leone
 V South Africa
 R Kenya, Somalia, Tanzania
 K Djibouti, Ethiopia, Somalia

<u>Gazella cuvieri</u>			
<u>Gazella dama</u>	V	Sahara/Sahel	North-west Africa
<u>Gazella dorcas massaesyala</u>	K	Sahara/Sahel	Sahara/Sahel
<u>Gazella gazella</u>	V	Arabia, Middle East	Arabia, Middle East
<u>Gazella leptoceros</u>	V	Sahara/Sahel	Sahara/Sahel
<u>Gazella rufifrons</u>	K	Senegal to Eritrea	Senegal to Eritrea
<u>Gazella soemmerringi</u>	V	North-eastern Africa	North-eastern Africa
<u>Gazella spekei</u>	K	Somalia, Ethiopia	Somalia, Ethiopia
<u>Gazella subgutturosa marica</u>	E	Arabia	Arabia
<u>Hemitragus hylocrius</u>	V	India	India
<u>Hemitragus jayakari</u>	E	Oman, U.A.E.	Oman, U.A.E.
<u>Hippotragus leucophaeus</u>	Ex	[South Africa]	[South Africa]
<u>Hippotragus niger variani</u>	E	Angola	Angola
<u>Kobus leche</u>	V	Southern Africa	Southern Africa
<u>Neotragus moschatus moschatus</u>	E	Zanzibar	Zanzibar
<u>Oryx dammah</u>	E	Sahara/Sahel	Sahara/Sahel
<u>Oryx leucoryx</u>	E	Arabia, Middle East	Arabia, Middle East
<u>Ovis ammon musimon</u>	E	Sardinia, Corsica, Cyprus	Sardinia, Corsica, Cyprus
<u>Rupicapra rupicapra balcanica</u>	K	Albania, Bulgaria, Greece, Yugoslavia	Albania, Bulgaria, Greece, Yugoslavia
<u>Rupicapra rupicapra cartusiana</u>	E	France	France
<u>Rupicapra rupicapra ornata</u>	V	Italy	Italy
<u>Taurotragus derbianus derbianus</u>	E	West Africa	West Africa
<u>Cuvier's Gazelle</u>			
<u>Dama Gazelle</u>			
<u>Dorcas Gazelle</u>			
<u>Mountain Gazelle</u>			
<u>Slender-horned Gazelle</u>			
<u>Red-fronted Gazelle</u>			
<u>Soemmerring's Gazelle</u>			
<u>Speke's Gazelle</u>			
<u>Saudi Goitred Gazelle</u>			
<u>Nilgiri Tahr</u>			
<u>Arabian Tahr</u>			
<u>Bluebuck</u>			
<u>Giant Sable Antelope</u>			
<u>Lechwe</u>			
<u>Zanzibar Suni</u>			
<u>Scimitar-horned Oryx</u>			
<u>Arabian Oryx</u>			
<u>Mediterranean Mouflon</u>			
<u>Balkan Chamois</u>			
<u>Chartreuse Chamois</u>			
<u>Abruzzo Chamois</u>			
<u>Western Giant Eland</u>			

CLASS AVES

Order RHEIFORMES

Family Rheidae

Pterocnemia pennata tarapacensis

E Eastern Andes

Order TINAMIFORMES

Family Tinamidae

Crypturellus saltuarius

Tinamus solitarius pernambucensis

Magdalena Tinamou

Pernambuco Solitary Tinamou

I Colombia

E Brazil

Order PODICIPEDIFORMES

Family Podicipedidae

Podiceps andinus

Podiceps gallardoi

Podiceps taczanowskii

Colombian Grebe

Hooded Grebe

Junin Grebe

Ex

R [Colombia]

R Argentina

R Peru

Podilymbus gigas
Tachybaptus pelzelni
Tachybaptus rufolavatus

Atitlan Grebe
 Madagascar Little Grebe
 Alaotra Grebe

E Guatemala
 K Madagascar
 E Madagascar

Order PROCELLARIIFORMES

Family Diomedidae

Diomedea albatrus
Diomedea amsterdamensis

Short-tailed Albatross
 Amsterdam Albatross

E Japan
 E Amsterdam I.

Family Procellariidae

Procellaria parkinsoni

Black Petrel

E Galapagos Is, New Zealand,
 South America

Procellaria westlandica

Westland Black Petrel

V New Zealand, Australia

Pterodroma aterrima

Mascarene Petrel

E Reunion, Rodrigues

Pterodroma axillaris

Chatham Island Petrel

E Chatham Is

Pterodroma cahow

Cahow

E Bermuda

Pterodroma cookii cookii

New Zealand Cook's Petrel

E New Zealand, North & South America
 R Desertas (Madeira), Cape Verde Is

Pterodroma feae

Gon-gon

V Haiti

Pterodroma hypoleuca hasitata

Black-capped Petrel

R New Zealand, Australia

Pterodroma leucoptera leucoptera

Gould's Petrel

I Fiji

Pterodroma macgillivrayi

Macgillivray's Petrel

E Chatham Is

Pterodroma magentae

Magenta Petrel

E Madeira

Pterodroma madeira

Freira

R Hawaii, Galapagos Is, Central &
 South America

Pterodroma phaeopygia

Dark-rumped Petrel

E South America

Pterodroma rostrata becki

Beck's Petrel

I Solomon Is

Puffinus heinrothi

Heinroth's Shearwater

I New Britain

Puffinus puffinus newelli

Newell's Shearwater

V Hawaii

Order PELECANIFORMES

Family Pelecanidae

Pelecanus crispus

Dalmatian Pelican

V South-east Europe, U.S.S.R., China

Family Sulidae

Sula abbotti

Abbott's Booby

E Christmas I. (Indian O.)

Family Phalacrocoracidae

Nannopterum harrisi

Galapagos Flightless Cormorant

R Galapagos Is

Phalacrocorax c. carunculatus

King Shag

R New Zealand

Family Fregatidae

Fregata andrewsi

Christmas Frigatebird

V Christmas I. (Indian O.)

Fregata aquila

Ascension Frigatebird

R Ascension I.

Order CICONIIFORMES

Family Ardeidae

Ardea humbloti
Egretta eulophotes
Egretta vinaceigula
Tigrisoma fasciatum fasciatum

K Madagascar, Comoro Is
V China, South-east Asia
I Southern Africa
I Argentina, Brazil

Family Ciconiidae

Ciconia (ciconia) boyciana
Ciconia episcopus stormi
Mycteria cinerea

E Eastern Palearctic
I Indonesia, Malaysia
V South-east Asia

Family Threskiornithidae

Bostrychia bocagei
Geronticus calvus
Geronticus eremita
Nipponia nippon
Pseudibis davisoni
Thaumatibis gigantea
Threskiornis aethiopica abbotti

I Sao Tome
R South Africa
E South Europe, Middle East, North Africa
E Japan, China, Korea
I South-east Asia
R South-east Asia
R Seychelles

Order ANSERIFORMES

Family Anatidae

Anas aucklandica
Anas bernieri
Anas laysanensis
Anas "oustaletii"
Anas wyvilliana
Anser albifrons elgasi
Aythya innotata
Branta canadensis leucopareia
Branta sandvicensis
Cairina scutulata
Chloephaga rubidiceps
Dendrocygna arborea
Mergus octosetaceus
Mergus squamatus
Netta erythrophthalma erythrophthalma

V New Zealand
V Madagascar
R Hawaii
E Marianas
V Hawaii
R U.S.A.
E Madagascar
R U.S.A., Mexico
V Hawaii
V India, South-east Asia
V South America, Falkland Is
V West Indies
I Argentina, Brazil
I Siberia, China
I North-west South America

Order FALCONIFORMES

Family Cathartidae

Gymnogyps californianus

Family Accipitridae

Accipiter fasciatus natalisAccipiter francesii pusillusAccipiter striatus fringilloidesAccipiter striatus venatorAquila adalbertiButeo galapagoensisButeo platypterus brunnescensButeo solitariusChondrohierax uncinatus mirusChondrohierax uncinatus wilsoniiEutriorchis asturGyps coprotheresHaliaeetus albicillaHaliaeetus leucocephalus leucocephalusHaliaeetus vociferoidesHarpia harpyjaLeucopternis occidentalisLeucopternis polionotaMorphnus guianensisPitheophaga jefferyiRostrhamus sociabilis plumbeus

California Condor

E California

Christmas Brown Goshawk

R Christmas I. (Indian O.)

Anjouan Sparrowhawk

E Comoro Is

Cuban Sharp-shinned Hawk

R Cuba

Puerto Rican Sharp-shinned Hawk

R Puerto Rico

Spanish Imperial Eagle

E Spain, Portugal

Galapagos Hawk

R Galapagos Is

Puerto Rican Broad-winged Hawk

R Puerto Rico

Hawaiian Hawk

R Hawaii

Grenada Hook-billed Kite

E Grenada

Cuban Hook-billed Kite

R Cuba

Madagascar Serpent Eagle

E Madagascar

Cape Vulture

R Southern Africa

White-tailed Eagle

V Palearctic

Southern Bald Eagle

E U.S.A., Mexico

Madagascar Fish Eagle

E Madagascar

Harpy Eagle

R Central & South America

Grey-backed Hawk

I Ecuador

Mantled Hawk

I South America

Crested Eagle

R Central & South America

Philippines Eagle

E Philippines

Florida Everglade Kite

R U.S.A., Cuba

Family Falconidae

Falco newtoni aldabranusFalco peregrinusFalco punctatus

Aldabra Kestrel

R Aldabra

Peregrine Falcon

V Worldwide

Mauritius Kestrel

E Mauritius

Order GALLIFORMES

Family Megapodiidae

Macrocephalon maleoMegapodius laperouse

Maleo

V Indonesia

Micronesian Megapode

R Marianas & Palau Is

Family Cracidae

<u>Aburria iacutinga</u>	E	South America
<u>Crax alberti</u>	V	Colombia
<u>Crax blumenbachi</u>	E	Brazil
<u>Crax fasciolata pinima</u>	I	Brazil
<u>Crax mitu mitu</u>	E	Brazil
<u>Crax rubra griscomi</u>	R	Mexico
<u>Oreophasis derbianus</u>	E	Guatemala, Mexico
<u>Ortalis vetula deschauenseei</u>	E	Honduras
<u>Penelope albipennis</u>	E	Peru
<u>Penelope perspicax</u>	E	Colombia
<u>Pipile pipile pipile</u>	E	Trinidad & Tobago

Family Phasianidae

<u>Agelastes meleagrides</u>	E	West Africa
<u>Catreus wallichii</u>	E	Nepal, Pakistan, India
<u>Colinus virginianus ridgwayi</u>	E	U.S.A., Mexico
<u>Crossoptilon crossoptilon</u>	V	India, Burma, China
<u>Crossoptilon mantchuricum</u>	E	China
<u>Francolinus camerunensis</u>	R	Cameroon
<u>Francolinus nahani</u>	R	Uganda, Zaire
<u>Francolinus ochropectus</u>	R	Djibouti
<u>Francolinus swierstrai</u>	I	Angola
<u>Lophophorus lhuysii</u>	E	China
<u>Lophophorus sclateri</u>	R	Southern Asia
<u>Lophura bulweri</u>	V	Borneo
<u>Lophura edwardsi</u>	V	Vietnam
<u>Lophura imperialis</u>	V	Laos, Vietnam
<u>Lophura swinhoii</u>	V	Taiwan
<u>Odontophorus strophium</u>	E	Colombia
<u>Pavo muticus</u>	V	South-east Asia
<u>Perdix perdix italica</u>	E	Italy
<u>Polyplectron emphanum</u>	V	Philippines
<u>Rheinardia ocellata</u>	R	Laos, Vietnam, Malaysia
<u>Symaticus ellioti</u>	E	China
<u>Symaticus humiae</u>	R	China, India, Indochina
<u>Symaticus mikado</u>	V	Taiwan
<u>Tetrao urogallus cantabricus</u>	E	Spain
<u>Tragopan blythii</u>	R	Tibet, Bhutan, India, Burma
<u>Tragopan caboti</u>	E	Tibet, Bhutan, India
<u>Tragopan melanocephalus</u>	E	India, Pakistan
<u>Tympanuchus cupido attwateri</u>	R	U.S.A.

Order GRUIFORMES
Family Mesitornithidae

Mesitornis unicolor
Mesitornis variegata
Monias benschi

Brown Mesite
 White-breasted Mesite
 Subdesert Mesite

K Madagascar
 R Madagascar
 R Madagascar

Family Gruidae

Grus americana
Grus canadensis nesiotes
Grus canadensis pulla
Grus japonensis
Grus leucogeranus
Grus monacha
Grus nigricollis
Grus vipio

Whooping Crane
 Cuban Sandhill Crane
 Mississippi Sandhill Crane
 Japanese Crane
 Siberian White Crane
 Hooded Crane
 Black-necked Crane
 White-naped Crane

E Canada, U.S.A.
 R Cuba
 E U.S.A.
 V East Asia
 E Central & East Asia
 V East Asia
 I East Asia
 V East Asia

Family Rallidae

Amaurornis olivieri
Atlantisia rogersi
Coturnicops noveboracensis goldmani
Cyanolimnas cerverai
Dryolimnas cuvieri aldabranus
Fulica americana alai
Fulica cornuta
Gallinula chloropus guami
Gallinula chloropus sandvicensis
Gallinula comeri
Notornis mantelli
Pareudiastes sylvestris
Rallus longirostris levipes
Rallus longirostris obsoletus
Rallus owstoni
Rallus pectoralis muelleri
Rallus poecilopterus
Rallus semiplumbeus
Sarothrura ayresi
Sarothrura watersi
Tricholimnas sylvestris

Sakalava Rail
 Inaccessible Rail
 Goldman's Yellow Rail
 Zapata Rail
 Aldabra White-throated Rail
 Hawaiian Coot
 Horned Coot
 Marianas Gallinule
 Hawaiian Gallinule
 Gough Moorhen
 Takahē
 San Cristobal Mountain Rail
 Light-footed Clapper Rail
 California Clapper Rail
 Guam Rail
 Auckland Island Rail
 Barred-wing Rail
 Bogota Rail
 White-winged Flufftail
 Slender-billed Flufftail
 Lord Howe Wood Rail

K Madagascar
 R Tristan da Cunha
 I Mexico
 R Cuba
 R Seychelles
 R Hawaii
 R Argentina, Bolivia, Chile
 R Marianas
 R Hawaii
 R Tristan da Cunha
 E New Zealand
 I Solomon Is
 E Mexico, U.S.A.
 V U.S.A.
 V Guam
 I Auckland Is
 E Fiji
 V Colombia
 I Ethiopia & Southern Africa
 I Madagascar
 E Lord Howe I.

Family Rhynochetidae
Rhynochetos jubatus

Kagu

E New Caledonia

Family Otididae
Ardeotis nigriceps

Great Indian Bustard

E India

Order CHARADRIIFORMES

Family Haematopodidae

- Haematopus meadewaldoi
Haematopus unicolor chathamensis

Canarian Black Oystercatcher
Chatham Island Oystercatcher

EX [Canary Is]
E Chatham Is

Family Recurvirostridae

- Himantopus himantopus knudseni
Himantopus novaezealandiae

Hawaiian Stilt
Black Stilt

R Hawaii
E New Zealand

Family Charadriidae

- Charadrius sanctaehelenae
Charadrius thoracicus
Thinornis novaeeseelandiae
Vanellus macropterus

St Helena Plover
Madagascar Plover
New Zealand Shore Plover
Javanese Wattled Lapwing

R St Helena
R Madagascar
E Chatham Is
EX [Indonesia]

Family Scolopacidae

- Coenocorypha aucklandica
Limnodromus semipalmatus
Numenius borealis
Prosobonia cancellatus
Tringa guttifer

New Zealand Snipe
Asian Dowitcher
Eskimo Curlew
Tuamotu Sandpiper
Spotted Greenshank

R New Zealand
R Asia
E Americas
V Tuamotu
I South-east Asia

Family Laridae

- Larus audouinii
Larus relictus
Sterna albifrons browni
Sterna balaenarum
Sterna zimmermanni

Audouin's Gull
Relict Gull
California Least Tern
Damara Tern
Chinese Crested Tern

R Mediterranean, North Africa
R Mongolia, U.S.S.R., Vietnam
E Guatemala, Mexico, U.S.A.
R Southern Africa
I China & South-east Asia

Order COLUMBIFORMES

Family Columbidae

- Caloenas nicobarica pelewensis
Claravis godefrida
Columba bollii
Columba inornata exigua
Columba inornata wetmorei
Columba junoniae
Columba oliviae

Palau Nicobar Pigeon
Purple-winged Ground Dove
Dark-tailed Laurel Pigeon
Jamaican Plain Pigeon
Puerto Rican Plain Pigeon
White-tailed Laurel Pigeon
Somali Pigeon

E Pacific Trust Territory
V Argentina, Paraguay, Brazil
R Canary Is
I Jamaica
E Puerto Rico
R Canary Is
R Somelia

<u>Columba palumbus azorica</u>	Azores Wood Pigeon	R	Azores
<u>Columba thomensis</u>	Maroon Pigeon	V	Sao Tome
<u>Columba trocaz</u>	Long-toed Pigeon	V	Canary Is, Madeira
<u>Didunculus strigirostris</u>	Tooth-billed Pigeon	V	West Samoa
<u>Drepanoptila holosericea</u>	Cloven-feathered Dove	V	New Caledonia
<u>Ducula aurorae</u>	Society Islands Pigeon	V	Society Is, Tuamotu
<u>Ducula galeata</u>	Marquesas Pigeon	E	Marquesas Is
<u>Ducula goliath</u>	Giant Imperial Pigeon	V	New Caledonia
<u>Ducula oceania ratakensis</u>	Radak Micronesian Pigeon	I	Marshall Is
<u>Ducula oceania teraokai</u>	Truk Micronesian Pigeon	E	Caroline Is
<u>Ducula whartoni</u>	Christmas Imperial Pigeon	V	Christmas I. (Indian O.), Cocos Is
<u>Gallucolumba erythroptera</u>	Society Islands Ground Dove	I	Tuamotu
<u>Gallucolumba rubescens</u>	Marquesas Ground Dove	I	Marquesas Is
<u>Hemiphaga novaeseelandiae chathamensis</u>	Chatham Island Pigeon	E	Chatham Is
<u>Leptotila conoveri</u>	Tolima Dove	I	Colombia
<u>Leptotila wellsi</u>	Grenada Dove	I	Grenada
<u>Nesoenas mayeri</u>	Pink Pigeon	E	Mauritius
<u>Ptilinopus huttoni</u>	Rapa Fruit Dove	R	Tubuai Is
<u>Ptilinopus roseicapillus</u>	Marianas Fruit Dove	V	Guam
<u>Streptopelia picturata rostrata</u>	Seychelles Turtle Dove	Ex	Seychelles
<u>Treron australis griveaudi</u>	Moheli Green Pigeon	R	Comoro Is

Order PSITTACIFORMES

Family Loriidae

- Vini peruviana
- Vini ultramarina

Family Psittacidae

- Agapornis nigrigenis
- Amazona arausiaca
- Amazona brasiliensis
- Amazona guildingii
- Amazona imperialis
- Amazona leucocephala bahamensis
- Amazona leucocephala hesternae
- Amazona pretrei
- Amazona versicolor
- Amazona vittata
- Anodorhynchus glaucus
- Anodorhynchus leari
- Ara ambigu guayaquilensis
- Ara glaucogularis
- Aratinga guarouba

Tahiti Lorikeet	R	Cook I., Society Is, Tuamotu
Ultramarine Lorikeet	R	Marquesas Is
Black-cheeked Lovebird	R	Zambia, Zimbabwe
Red-necked Parrot	E	Dominica
Red-tailed Parrot	E	Brazil
St Vincent Parrot	E	St Vincent
Imperial Parrot	E	Dominica
Bahamas' Parrot	R	Bahamas
Cayman Brac Parrot	R	Cayman Is
Red-spectacled Parrot	V	Argentina, Brazil, Uruguay
St Lucia Parrot	E	St Lucia
Puerto Rican Parrot	E	Puerto Rico
Glaucous Macaw	E	South America
Lear's Macaw	E	Brazil
Guayaquil Great Green Macaw	I	Ecuador
Blue-throated Macaw	I	Bolivia
Golden Parakeet	V	Brazil

<u>Bolborhynchus ferrugineifrons</u>	Rufous-fronted Parakeet	I	Colombia
<u>Coracopsis nigra barklyi</u>	Seychelles Black Parrot	E	Seychelles
<u>Cyanopsitta spixii</u>	Spix's Macaw	V	Brazil
<u>Cyanoramphus auriceps forbesi</u>	Forbes's Parakeet	E	Chatham Is
<u>Cyanoramphus malherbi</u>	Orange-fronted Parakeet	E	Norfolk I.
<u>Cyanoramphus novaezelandiae cookii</u>	Norfolk Island Parakeet	E	New Caledonia
<u>Eumyphicus cornutus uvaeensis</u>	Uvea Horned Parakeet	E	Australia
<u>Geopsittacus occidentalis</u>	Night Parrot	I	Colombia
<u>Hapalopsittaca amazonina fuertisi</u>	Indigo-winged Parrot	I	Australia
<u>Neophema chrysoaster</u>	Orange-bellied Parakeet	R	Australia
<u>Neophema pulchella</u>	Turquoise Parakeet	R	Australia
<u>Neophema splendida</u>	Splendid Parakeet	R	Australia, Ecuador
<u>Ognorhynchus icterotis</u>	Yellow-eared Conure	V	Australia
<u>Pezoparus wallicus</u>	Ground Parrot	R	Australia
<u>Psephotus c. crysopterygius</u>	Golden-shouldered Parakeet	R	Australia
<u>Psephotus chrysopterygius dissimilis</u>	Hooded Parakeet	R	Australia
<u>Psephotus pulcherrimus</u>	Paradise Parakeet	E	Australia
<u>Psittacula eques</u>	Mauritius Parakeet	E	Mauritius
<u>Pyrrhura cruentata</u>	Ochre-marked Parakeet	R	Brazil
<u>Rhynchopsitta pachyrhyncha</u>	Thick-billed Parrot	V	Mexico
<u>Strigops habroptilus</u>	Kakapo	E	New Zealand
<u>Touit melanonta</u>	Black-eared Parrotlet	R	Brazil
<u>Touit surda</u>	Golden-tailed Parrotlet	I	Brazil

Order CUCULIFORMES

Family Musophagidae

<u>Tauraco bannermani</u>	Bannerman's Turaco	E	Cameroon
<u>Tauraco fischeri zanzibaricus</u>	Zanzibar Red-crested Lourie	R	Zanzibar
<u>Tauraco ruspolii</u>	Prince Ruspoli's Turaco	R	Ethiopia

Family Cuculidae

<u>Coua delalandei</u>	Snail-eating Coua	Ex	[Madagascar]
<u>Neomorphus geoffroyi dulcis</u>	South-eastern Rufous-vented Ground Cuckoo	E	Brazil
<u>Neomorphus geoffroyi maximiliani</u>	Bahia Rufous-vented Ground Cuckoo	I	Brazil
<u>Pachyococcyx audeberti audeberti</u>	Madagascar Thick-billed Cuckoo	I	Madagascar

Order STRIGIFORMES

Family Tytonidae

<u>Phodilus prigoginei</u>	I tombwe Owl	I	Zaire
<u>Tyto soumagnei</u>	Madagascar Red Owl	I	Madagascar

Family Strigidae

<u>Asio clamator oberi</u>	Tobago Striped Owl	R	Trinidad & Tobago
<u>Asio flammeus ponapensis</u>	Ponape Short-eared Owl	R	Caroline Is
<u>Athene blewitti</u>	Forest Little Owl	I	India
<u>Bubo vosseleti</u>	Nduk Eagle Owl	R	Tanzania
<u>Glaucidium albertinum</u>	Albertine Owllet	R	Rwanda, Zaire
<u>Ninox novaeseelandia undulata</u>	Norfolk Boobook Owl	I	Norfolk I.
<u>Ninox squamipila natalis</u>	Christmas Island Owl	R	Christmas I. (Indian O.)
<u>Otus elegans botelensis</u>	Lanyu Scops Owl	E	Taiwan
<u>Otus hartlaubi</u>	Sao Tome Scops Owl	R	Sao Tome
<u>Otus insularis</u>	Seychelles Scops Owl	R	Seychelles
<u>Otus ireneae</u>	Sokoke Scops Owl	E	Kenya
<u>Otus magicus beccarii</u>	Papuan Scops Owl	I	Irian Jaya
<u>Otus nudipes newtoni</u>	Virgin Islands Screech Owl	R	Virgin Is, Puerto Rico
<u>Otus pauliani</u>	Grand Comoro Scops Owl	R	Comoro Is
<u>Otus rutilus capnodes</u>	Anjouan Scops Owl	E	Comoro Is
<u>Scotopelia ussheri</u>	Rufous Fishing Owl	R	West Africa

Order CAPRIMULGIFORMES

Family Caprimulgidae

<u>Caprimulgus noctitherus</u>	Puerto Rican Whippoorwill	R	Puerto Rico
--------------------------------	---------------------------	---	-------------

Order APODIFORMES

Family Apodidae

<u>Apus sladeniae</u>	Fernando Po Swift	K	West Africa, Angola
<u>Collocalia elaphra</u>	Seychelles Swiftlet	R	Seychelles
<u>Schoutedenapus schoutedeni</u>	Schouteden's Swift	I	Zaire

Family Trochilidae

<u>Coeligena prunellei</u>	Black Inca	I	Colombia
<u>Eulidia yarrellii</u>	Chilean Woodstar	E	Chile
<u>Glaucis dohrni</u>	Hook-billed Hermit	E	Brazil
<u>Phaethornis margaritae</u>	Klabin Farm Long-tailed Hermit	E	Brazil
<u>Phaethornis nigrostris</u>	Black-billed Hermit	R	Brazil
<u>Threnetes grzimeki</u>	Black Barbthroat	E	Brazil

Order TROGONIFORMES

Family Trogonidae

<u>Pharomacrus mocinno</u>	Resplendent Quetzal	V	Central America
----------------------------	---------------------	---	-----------------

Order CORACIIFORMES

Family Alcedinidae

<u>Halcyon cinnamomina cinnamomina</u>	Giant Micronesian Kingfisher	E	Guam
--	------------------------------	---	------

Family Coraciidae

Eurystomus orientalis irisi

Family Brachypteraciidae

Atelornis crossleyi

Brachypteracias leptosomus

Brachypteracias squamiger

Uratelornis chimaera

Family Bucerotidae

Rhinoplax vigil

Order PICIFORMES

Family Capitonidae

Pogoniulus makawai

Semnorhis ramphastinus

Stactolaema olivacea woodwardi

Family Indicatoridae

Melignomon eisentrauti

Family Picidae

Campephilus imperialis

Campephilus principalis

Dendrocopos leucotos owstoni

Dryocopus galeatus

Dryocopus javensis richardsi

Melanerpes supercilianis bahamensis

Melanerpes supercilianis nyeanus

Picoides borealis

Picoides tridactylus inouyei

Picus awokera takatsukasae

Sapheopipo noguchii

Order PASSERIFORMES

Family Eurylaimidae

Pseudocalyptomena graueri

Family Dendrocolaptidae

Xiphorhynchus picus altirostris

Ceylon Broad-billed Roller

Rufous-headed Ground Roller

Short-legged Ground Roller

Scaly Ground Roller

Long-tailed Ground Roller

Helmeted Hornbill

White-chested Tinkerbird

Toucan Barbet

Ngoye Green Barbet

Yellow-footed Honeyguide

Imperial Woodpecker

Ivory-billed Woodpecker

Owston's White-backed Woodpecker

Helmeted Woodpecker

Tristram's Woodpecker

Grand Bahama Red-bellied Woodpecker

San Salvador Red-bellied Woodpecker

Red-cockaded Woodpecker

Inouye's Three-toed Woodpecker

Takatsukasae's Green Woodpecker

Okinawa Woodpecker

African Green Broadbill

Trinidad Straight-billed Woodcreeper

India, Sri Lanka

Madagascar

Madagascar

Madagascar

Madagascar

South-east Asia

Zambia

Colombia, Ecuador

South Africa

Cameroon, Ghana, Liberia

Mexico

Cuba, U.S.A.

Ryukyu Is

South America

North Korea, South Korea

Bahamas

Bahamas

U.S.A.

Japan

Ryukyu Is

Ryukyu Is

Uganda, Zaire

Trinidad & Tobago

Family Formicariidae

- Formicivora iheringi
- Grallaria alleni
- Grallaria guatemalensis aripoensis
- Grallaria milleri
- Myrmotherula erythronotos
- Pyriglena atra
- Rhopornis ardesiaca

- Narrow-billed Antwren
- Moustached Antpitta
- Trinidad Scaled Antpitta
- Brown-banded Antpitta
- Black-hooded Antwren
- Fringe-backed Fire-eye
- Slender Antbird

- V Brazil
- I Colombia
- R Trinidad/Tobago
- I Colombia
- E Brazil
- E Brazil
- V Brazil

Family Rhinocryptidae

- Merulaxis stresemanni
- Scytalopus novacapitalis

- Stresemann's Bristlefront
- Brasilia Tapaculo

- I Brazil
- I Brazil

Family Cotingidae

- Calyptura cristata
- Cephalopterus penduliger
- Cotinga maculata
- Procnias averano averano
- Xipholena atropurpurea

- Kinglet Calyptura
- Long-wattled Umbrellabird
- Banded Cotinga
- Marcgrave's Bearded Bellbird
- White-winged Cotinga

- I Brazil
- V Colombia, Ecuador
- V Brazil
- V Brazil
- V Brazil

Family Tyrannidae

- Polystictus pectoralis bogotensis

- Bogota Bearded Tachuri

- I Colombia

Family Pittidae

- Pitta gurneyi

- Gurney's Pitta

- I Burma, Thailand

Family Xenicidae

- Xenicus longipes

- New Zealand Bush Wren

- Ex [New Zealand]

Family Philepittidae

- Neodrepanis hypoxantha

- Yellow-bellied Sunbird-asisity

- I Madagascar

Family Atrichornithidae

- Atrichornis clamosus
- Atrichornis rufescens

- Noisy Scrub Bird
- Rufous Scrub Bird

- E Australia
- R Australia

Family Alaudidae

<u>Alauda razae</u>	Raso Lark	E	Raso (Cape Verde Is)
<u>Heteromirafra archeri</u>	Somali Long-clawed Lark	I	Somalia
<u>Heteromirafra ruddi</u>	South African Long-clawed Lark	I	South Africa
<u>Heteromirafra sidamoensis</u>	Sidamo Long-clawed Lark	I	Ethiopia
<u>Mirafra ashi</u>	Ash's Lark	K	Somalia
<u>Mirafra degodiensis</u>	Degodi Lark	K	Ethiopia
<u>Spizocorys fringillaris</u>	Botha's Lark	I	South Africa

Family Hirundinidae

<u>Hirundo megaensis</u>	White-tailed Swallow	R	Ethiopia
<u>Kalochelidon euchrysea euchrysea</u>	Jamaica Golden Swallow	I	Jamaica
<u>Pseudochelidon sirintarae</u>	White-eyed River Martin	I	Thailand

Family Motacillidae

<u>Anthus sokokensis</u>	Sokoke Pipit	V	Kenya, Tanzania
--------------------------	--------------	---	-----------------

Family Campephagidae

<u>Campephaga lobata</u>	Western Wattled Cuckoo-shrike	V	West Africa
<u>Coracina newtoni</u>	Reunion Cuckoo-shrike	V	Reunion
<u>Coracina typica</u>	Mauritius Cuckoo-shrike	V	Mauritius

Family Pycnonotidae

<u>Chlorocichla prigoginei</u>	Prigogine's Greenbul	V	Zaire
<u>Criniger olivaceus</u>	Yellow-throated Olive Greenbul	V	West Africa
<u>Hypsipetes olivaceus</u>	Mauritius Black Bulbul	V	Mauritius
<u>Phyllastrephus apperti</u>	Appert's Greenbul	R	Madagascar
<u>Phyllastrephus cinereiceps</u>	Grey-crowned Greenbul	R	Madagascar
<u>Phyllastrephus tenebrosus</u>	Dusky Greenbul	R	Madagascar

Family Laniidae

<u>Lanius ludovicianus mearnsi</u>	San Clemente Loggerhead Shrike	E	U.S.A.
<u>Lanius newtoni</u>	Sao Tome Fiscal Shrike	I	Sao Tome
<u>Malaconotus alius</u>	Uluguru Bush-shrike	R	Tanzania
<u>Malaconotus gladiator</u>	Green-breasted Bush-shrike	R	Cameroon, Nigeria
<u>Malaconotus kupeensis</u>	Mount Kupe Bush-shrike	I	Cameroon
<u>Malaconotus monteiri</u>	Monteiro's Bush-shrike	I	Angola, Cameroon
<u>Prionops gabela</u>	Gabela Helmet-shrike	I	Angola

Family Vangidae

<u>Xenopirostris dami</u>	Van Dam's Vanga	R	Madagascar
<u>Xenopirostris polleni</u>	Pollen's Vanga	R	Madagascar

Family CinclidaeCinclus schultzi

Rufous-throated Dipper

I Argentina

Family TroglodytidaeCistothorus apolinari

Apolinar's Marsh Wren

V Colombia

Ferminia cerverai

Zapata Wren

R Cuba

Troglodytes aedon guadeloupensis

Guadeloupe Wren

E Guadeloupe

Troglodytes aedon mesoleucus

St Lucia Wren

E St Lucia

Troglodytes troglodytes fridariensis

Fair Isle Wren

R U.K.

Family MimidaeCinlocerthia ruficauda gutturalis

Martinique Trembler

E Martinique

Nesomimus trifasciatus trifasciatus

Charles Mockingbird

R Galapagos Is

Ramphocinclus brachyurus

White-breasted Trembler

E Martinique, St Lucia

Family MuscicapidaeAcrocephalus caffer aquilonis

Eiao Polynesian Warbler

E Marquesas Is

Acrocephalus caffer longirostris

Moorea Polynesian Warbler

E Society Is

Acrocephalus caffer postremus

Hatutu Polynesian Warbler

R Marquesas Is

Acrocephalus kingii

Nihoa Millerbird

R Hawaii

Acrocephalus rodericanus

Rodrigues Brush Warbler

E Rodrigues

Acrocephalus sechellensis

Seychelles Brush Warbler

R Seychelles

Alethe choloensis

Thyolo Alethe

E Malawi, Mozambique

Amaurocichla bocagii

Sao Tome Short-tail

E Sao Tome

Amytornis goyderi

Eyrean Grass Wren

I Australia

Apalis argentea

Kungwe Apalis

R Central & East Africa

Apalis kaboboensis

Kabobo Apalis

R Zaire

Apalis karamojae

Karamoja Apalis

K Tanzania, Uganda

Apalis moreau

Long-billed Apalis

R Mozambique, Tanzania

Bathmocercus winifredae

Mrs Moreau's Warbler

R Tanzania

Bowdleria punctata wilsoni

Codfish Island Fernbird

E New Zealand

Bradypterus grandis

Dja River Warbler

K Cameroon, Gabon

Bradypterus graueri

Grauer's Swamp Warbler

V Central & East Africa

Chloropeta gracilirostris

Papyrus Yellow Warbler

R Central & East Africa

Cichlherminia herminieri

St Lucia Forest Thrush

E St Lucia

sanctaeluciaeCisticola restricta

Tana River Cisticola

K Kenya

Copsychus sechellarum

Seychelles Magpie Robin

E Seychelles

Cossypha heinrichi

White-headed Robin-chat

I Angola, Zaire

Crossleyia xanthophrys

Madagascar Yellowbrow

I Madagascar

Dasyornis brachypterus longirostris

Western Bristlebird

R Australia

Dasyornis broadbenti littoralis

Western Rufous Bristlebird

E Australia

Dryocichloides lowei
Dryocichloides montanus
Eremomela turneri
Erethacus komadori subrufa
Humblotia flavirostris
Lioptilus gilberti
Macrosphenus pulitzeri
Megalururus pryeri pryeri
Meleagornis annamarulae
Metabolus rugensis
Modulatrix orostruthus
Monticola bensoni
Muscicapa lendu
Myadestes genibarbis sibilans
Nesillas alabranus
Nesocichla eremita eremita
Newtonia fanovanae
Paradoxornis heudei heudei
Petroica traversi
Phaeornis obscurus myadestina
Phaeornis obscurus rutha
Phaeornis palmeri
Picathartes gymnocephalus
Picathartes oreas
Platysteira laticincta
Pomarea dimidiata
Pomarea iphis fluxa
Pomarea mendozae mendozae
Pomarea mendozae mira
Pomarea mendozae nukuhivae
Pomarea nigra nigra
Prinia "fluviatilis"
Regulus calendula obscura
Saxicola dacotiae
Sheppardia gunningi
Swynnertonia swynnertonii
Terpsiphone bourbonnensis desolata
Terpsiphone corvina
Trichocichla rufa
Turdoides hindei
Turdus fischeri
Turdus helleri

Iringa Ground Robin
 Usambara Ground Robin
 Turner's Eremomela
 Southern Ryukyu Robin
 Grand Comoro Flycatcher
 White-throated Mountain Babbler
 Pulitzer's Longbill
 Japanese Marsh Warbler
 Nimba Flycatcher
 Truk Monarch
 Dappled Mountain Robin
 Benson's Rockthrush
 Chapin's Flycatcher
 St Vincent Solitaire
 Aldabra Brush Warbler
 Tristan Starchy
 Fanovana Newtonia
 Lower Yangtze Xiang Crow-tit
 Chatham Island Black Robin
 Kauai Thrush
 Molokai Thrush
 Small Kauai Thrush
 White-necked Picathartes
 Grey-necked Picathartes
 Banded Wattle-eye
 Rarotonga Flycatcher
 Eiao Flycatcher
 Hivaoa Flycatcher
 Uapou Flycatcher
 Nukuhiva Flycatcher
 Tahiti Flycatcher
 River Prinia
 Guadeloupe Kinglet
 Fuerteventura Stonechat
 East Coast Akalat
 Swynnerton's Forest Robin
 Mauritius Paradise Flycatcher
 Seychelles Black Paradise Flycatcher
 Long-legged Warbler
 Hinde's Pied Babbler
 Spotted Ground-thrush
 Taita Thrush

R Tanzania
 R Tanzania
 R Kenya, Uganda, Zaire
 E Ryukyu Is
 R Comoro Is
 R Cameroon, Nigeria
 I Angola
 R Japan
 I Ivory Coast, Liberia
 R Caroline Is
 R Mozambique, Tanzania
 K Madagascar
 R Kenya, Uganda, Zaire
 R St Vincent
 E Seychelles
 R Tristan da Cunha
 R Madagascar
 I China
 E Chatham Is
 E Hawaii
 E Hawaii
 E Hawaii
 V West Africa
 V West Africa
 E Cameroon
 V Cook I.
 I Marquesas Is
 E Marquesas Is
 R Marquesas Is
 E Marquesas Is
 E Society Is
 K Cameroon, Chad, Niger
 I Guadeloupe
 R Canary Is
 R East Africa
 R Mozambique, Tanzania, Zimbabwe
 R Mauritius
 R Seychelles
 E Fiji
 V Kenya
 R East & South Africa
 E Kenya

<u>Turdus kibalensis</u>			
<u>Turdus oberlaenderi</u>			
<u>Turdus poliocephalus poliocephalus</u>			
<u>Zoothera dauma major</u>			
Family Sittidae			
<u>Sitta ledanti</u>			R Algeria
Family Nectariniidae			
<u>Anthreptes pallidigaster</u>			R Kenya, Tanzania
<u>Anthreptes rubritorques</u>			R Tanzania
<u>Nectarinia prigoginei</u>			E Zaire
<u>Nectarinia rockefelleri</u>			R Zaire
<u>Nectarinia rufipennis</u>			R Tanzania
Family Zosteropidae			
<u>Rukia longirostris</u>			R Caroline Is
<u>Rukia ruki</u>			E Caroline Is
<u>Speirops brunneus</u>			R Eq. Guinea
<u>Zosterops albogularis</u>			E Norfolk I.
<u>Zosterops chloronothos</u>			V Mauritius
<u>Zosterops conspiciolata rotensis</u>			I Marianas
<u>Zosterops ficedulinus</u>			I Sao Tome
<u>Zosterops luteirostris luteirostris</u>			E Solomon Is
<u>Zosterops modestus</u>			R Seychelles
<u>Zosterops mouroniensis</u>			R Comoro Is
Family Meliphagidae			
<u>Apalopteron familiare familiare</u>			E Japan
<u>Meliphaga cassidix</u>			E Australia
<u>Moho braccatus</u>			E Hawaii
<u>Notiomystis cincta</u>			V New Zealand
Family Emberizidae			
<u>Anmodramus maritimus mirabilis</u>			R U.S.A.
<u>Anmodramus maritimus nigrescens</u>			E U.S.A.
<u>Amphispiza belli clementeae</u>			E U.S.A.
<u>Atlapetes flaviceps</u>			I Colombia
<u>Camarhynchus heliobates</u>			R Galapagos Is
<u>Geospiza magnirostris magnirostris</u>			I Galapagos Is
<u>Melospiza melodia amaka</u>			EX [U.S.A.]
<u>Nemosia rourei</u>			E Brazil
<u>Neospiza acunhae</u>			R Tristan da Cunha
	Kibale Ground-thrush		
	Forest Ground-thrush		
	Grey-headed Blackbird		
	Amami Ground-thrush		
	Algerian Nuthatch		
	Amani Sunbird		
	Banded Green Sunbird		
	Marunga Sunbird		
	Rockefeller's Sunbird		
	Rufous-winged Sunbird		
	Ponape Greater White-eye		
	Truk Greater White-eye		
	Fernando Po Speirops		
	White-breasted Silver-eye		
	Mauritius Olive White-eye		
	Rota Bridled White-eye		
	Sao Tome White-eye		
	Gizo White-eye		
	Seychelles White-eye		
	Mount Karthala White-eye		
	Mukojima Bonin Honeyeater		
	Helmeted Honeyeater		
	Kauai 'O'o		
	Stitchbird		
	Cape Sable Seaside Sparrow		
	Dusky Seaside Sparrow		
	San Clemente Sage Sparrow		
	Olive-headed Brush Finch		
	Mangrove Finch		
	Floreana Large Ground Finch		
	Amak Song Sparrow		
	Cherry-throated Tanager		
	Tristan Bunting		

Neospiza concolor
Neospiza wilkinsi
Rowettia goughensis
Sporophila insulata
Tangara cabanisi
Tangara fastuosa
Torreornis inexpecta

Sao Tome Grosbeak
 Grosbeak Bunting
 Gough Bunting
 Tumaco Seedeater
 Azure-rumped Tanager
 Seven-colored Tanager
 Zapata Sparrow

I Sao Tome
 R Tristan da Cunha
 R Tristan da Cunha
 I Colombia
 I Guatemala
 V Brazil
 R Cuba

Family Parulidae

Dendroica kirtlandii
Dendroica petechia petechia
Geothlypis rostrata rostrata
Leucopezia semperi
Vermivora bachmanii

Kirtland's Warbler
 Barbados Yellow Warbler
 New Providence Bahama Yellowthroat
 Semper's Warbler
 Bachman's Warbler

E Bahamas, North America
 E Barbados
 I Bahamas
 E St Lucia
 E Bahamas, Cuba, U.S.A.

Family Drepanididae

Hemignathus lucidus
Hemignathus procerus
Hemignathus wilsoni
Loxioides bailleui
Loxops coccinea coccinea
Loxops coccinea ochracea
Melamprosops phaeosoma
Palmeria dolei
Paroreomyza maculata bairdi
Paroreomyza maculata flammea
Paroreomyza maculata maculata
Pseudonestor xanthophrys
Psittirostra psittacea

Nukupu'u
 Kauai 'Alialoa
 'Akiapola'au
 Palila
 Hawaii 'Akepa
 Maui 'Akepa
 Po'o Uli
 Crested Honeycreeper
 Kauai Creeper
 Molokai Creeper
 Oahu Creeper
 Maui Parrotbill
 'O'u

E Hawaii
 E Hawaii
 E Hawaii
 E Hawaii
 V Hawaii
 E Hawaii
 E Hawaii
 R Hawaii
 V Hawaii
 R Hawaii
 E Hawaii
 E Hawaii
 V Hawaii
 E Hawaii

Family Icteridae

Agelaius xanthomus

Puerto Rico

Family Fringillidae

Acanthis johannis
Fringilla teydea
Pyrrhula pyrrhula murina
Serinus ankoberensis
Serinus flavigula
Spinus cucullatus

Warsangli Linnet
 Blue Chaffinch
 Sao Miguel Bullfinch
 Ankober Serin
 Yellow-throated Serin
 Red Siskin

R Somalia
 R Canary Is
 E Azores
 R Ethiopia
 I Ethiopia
 E Colombia, Venezuela,
 Trinidad & Tobago

Family Estrildidae

Erythrura kleinschmidti
Erythrura trichroa pelewensis
Estrilda nigriloris
Estrilda poliopareia

Pink-billed Parrotfinch
 Palau Blue-faced Parrotfinch
 Black-lored Waxbill
 Anambra Waxbill

R Fiji
 I Pacific Trust Territory
 K Zaire
 K Nigeria

Family Ploceidae

Foudia flavicans
Foudia rubra
Foudia sechellarum
Malimbus ballmanni
Malimbus ibadanensis
Ploceus aureonucha
Ploceus bannermani
Ploceus batesi
Ploceus flavipes
Ploceus golandi
Ploceus nicolli
Ploceus nigrimentum
Ploceus ruweti
Ploceus subpersonatus

Rodrigues Fody
 Mauritius Fody
 Seychelles Fody
 Gola Malimbe
 Ibadan Malimbe
 Golden-naped Weaver
 Bannerman's Weaver
 Bates's Weaver
 Yellow-legged Weaver
 Clarke's Weaver
 Tanzanian Mountain Weaver
 Black-chinned Weaver
 Lake Lufira Weaver
 Loango Slender-billed Weaver

E Rodrigues
 E Mauritius
 R Seychelles
 I Ivory Coast, Liberia, Sierra Leone
 E Nigeria
 I Zaire
 V Cameroon, Nigeria
 R Cameroon
 V Zaire
 E Kenya
 R Tanzania
 K Angola, Congo
 K Zaire
 K Angola, Congo, Gabon, Zaire

Family Sturnidae

Aplonis pelzelni
Aplonis santovestris
Leucopsar rothschildi

Ponape Mountain Starling
 Santo Mountain Starling
 Rothschild's Starling

V Caroline Is
 R Fiji
 E Indonesia

Family Dicruridae

Dicrurus fuscipennis
Dicrurus waldeni

Grand Comoro Drongo
 Mayotte Drongo

R Comoro Is
 R Comoro Is

Family Callaeidae

Callaeas cinerea
Creadion carunculatus

V New Zealand
 R New Zealand

Family Artamidae

Artamus leucorhynchus pelewensis

Palau White-breasted Wood Swallow

R Pacific Trust Territory

Family Cracticidae

Strepera graculina crissalis

Lord Howe Currawong

E Lord Howe I.

Family Corvidae

Corvus kubaryi
Corvus tropicus
Zavattariornis stresemanni

Marianas Crow
Hawaiian Crow
Ethiopian Bush-crow

E Guam
E Hawaii
R Ethiopia

CLASS REPTILIA

Order TESTUDINES

Family Kinosternidae

Kinosternon angustipons
Kinosternon creaseri
Kinosternon dunni
Kinosternon flavescens spooneri
Sternotherus minor depressus

R Costa Rica, Nicaragua, Panama
R Mexico
R Colombia
E U.S.A.
I U.S.A.

Narrow-bridged Mud Turtle
Creaser's Mud Turtle
Dunn's Mud Turtle
Illinois Mud Turtle
Flattened Musk Turtle

Family Dermatemydidae

Dermatemys mawii

Central American River Turtle

V Central America

Family Emydidae

Batagur baska
Callagur borneoensis
Clemmys muhlenbergii
Heosemys silvatica
Pseudemys alabamensis
Pseudemys felis
Pseudemys malonei
Pseudemys rubriventris bangsi
Pseudemys scripta callirostris
Rhinoclemmys areolata
Rhinoclemmys rubida
Terrapene coahuila

E South-east Asia
V South-east Asia
I U.S.A.
I U.S.A.
I U.S.A.
R Bahamas
R Bahamas
R U.S.A.
V Colombia, Venezuela
K Central America
K Mexico
V Mexico

River Terrapin
Painted Terrapin
Bog Turtle
Cane Turtle
Alabama Red-bellied Turtle
Cat Island Turtle
Inagua Island Turtle
Plymouth Red-bellied Turtle
South American Red-lined Turtle
Furrowed Wood Turtle
Mexican Spotted Wood Turtle
Aquatic Box Turtle

Family Testudinidae

Geochelone carbonaria
Geochelone chilensis
Geochelone elephantopus
Geochelone emys
Geochelone forstenii
Geochelone gigantea
Geochelone impressa
Geochelone platynota

K South America
K Argentina, Bolivia, Paraguay
E Galapagos Is
K South-east Asia
R Sulawesi
R Aldabra
K South-east Asia
K Burma

Red-foot Tortoise
Chaco Tortoise
Galapagos Giant Tortoise
Burmese Brown Tortoise
Sulawesi Tortoise
Aldabra Giant Tortoise
Impressed Tortoise
Burmese Starred Tortoise

Geochelone radiata
Geochelone travancorica
Geochelone yniphora
Gopherus agassizii
Gopherus berlandieri
Gopherus flavomarginatus
Gopherus polyphemus
Malacochersus tornieri
Psammobates geometricus
Pyxis arachnoides
Pyxis planicauda
Testudo graeca graeca
Testudo hermanni
Testudo kleinmanni

Radiated Tortoise
 Travancore Tortoise
 Angonoka
 Desert Tortoise
 Texas Gopher Tortoise
 Bolson Tortoise
 Florida Gopher Tortoise
 Pancake Tortoise
 Geometric Tortoise
 Spider Tortoise
 Madagascar Flat-shelled Tortoise
 Spur-thighed Tortoise
 Hermann's Tortoise
 Egyptian Tortoise

V Madagascar
 K India
 E Madagascar
 V Mexico, U.S.A.
 I Mexico, U.S.A.
 E Mexico
 V U.S.A.
 K Kenya, Tanzania
 V South Africa
 I Madagascar
 I Madagascar
 V Europe, North Africa
 V Europe
 I Egypt, Israel, Libya

Family Cheloniidae

Caretta caretta
Chelonia mydas
Eretmochelys imbricata
Lepidochelys kempi
Lepidochelys olivacea

Loggerhead Turtle
 Green Turtle
 Hawksbill Turtle
 Kemp's Ridley
 Olive Ridley

V Subtropical & Temperate Seas
 E Tropical Seas
 E Tropical Seas
 E Gulf of Mexico
 E Tropical Seas

Family Dermochelyidae

Dermochelys coriacea

Leatherback

E Tropical & Temperate Seas

Family Carettochelyidae

Carettochelys insculpta

New Guinea Plateless Turtle

K Australia, New Guinea

Family Trionychidae

Trionyx nigricans

Dark Soft-shell Turtle

R Bangladesh

Family Pelomedusidae

Erymnochelys madagascariensis
Podocnemis erythrocephala
Podocnemis expansa
Podocnemis lewyana
Podocnemis sextuberculata
Podocnemis unifilis

Madagascar Sideneck Turtle
 Red-headed Amazon Turtle
 South American River Turtle
 Magdalena River Turtle
 Yellow-spotted Sideneck Turtle

I Madagascar
 K Brazil, Venezuela
 E Amazon Basin
 I Colombia
 K Brazil, Colombia, Peru
 V Amazon Basin

Family Chelidae

Phrynops dahlí
Phrynops hogei
Phrynops rufipes

Dahl's Toad-headed Turtle
 Hoge's Sideneck Turtle
 Red-headed Sideneck Turtle

I Colombia
 I Brazil
 K Brazil, Colombia

Platemys pallidipectoris
Platemys spixii
Pseudemys dura umbrina

R Argentina, Paraguay
K Argentina, Brazil, Uruguay
E Western Australia

Chaco Sideneck Turtle
Spix's Sideneck Turtle
Western Swamp Turtle

Alligator sinensis
Caiman crocodilus
Caiman latirostris
Melanosuchus niger

E China
T Central & South America
E Southern South America
E South America

E Chinese Alligator
T Spectacled Caiman
E Broad-nosed Caiman
E Black Caiman

Order CROCODYLIA

Family Alligatoridae

Family Crocodylidae

Crocodylus acutus
Crocodylus cataphractus
Crocodylus intermedius
Crocodylus johnsoni
Crocodylus mindorensis
Crocodylus moreletii
Crocodylus niloticus
Crocodylus novaeguineae
Crocodylus palustris
Crocodylus porosus
Crocodylus rhombifer
Crocodylus siamensis
Osteolaemus tetraspis
Tomistoma schlegelii

E American Crocodile
I African Slender-snouted Crocodile
E Orinoco Crocodile
V Australian Fresh-water Crocodile
E Philippines Crocodile
E Morelet's Crocodile
V Nile Crocodile
V New Guinea Crocodile
V Muggier
E Estuarine Crocodile
E Cuban Crocodile
E Siamese Crocodile
I West African Dwarf Crocodile
E False Gharial

E Caribbean, Central America, U.S.A.
I Africa
E Colombia, Venezuela
V Australia
E Philippines
E Central America
V Africa, Madagascar
V New Guinea
V South Asia
E Asia, Australia, West Pacific
E Cuba
E South-east Asia
I West & Central Africa
E South-east Asia

Family Gavialidae

Gavialis gangeticus

E Gharial

Order RHYNCHOCEPHALIA

Family Spherodontidae

Sphenodon punctatus

R Tuatara

Order SAURIA

Family Gekkonidae

Cyrtodactylus serpensinsula
Oedura reticulata
Phelsuma edwardnewtonii
Phelsuma guentheri

R Serpent Island Gecko
V Reticulated Velvet Gecko
E Rodrigues Day Gecko
R Round Island Day Gecko

R Round I., Serpent I.
V Australia
E Rodrigues
R Round I.

Family Xantusiidae

Xantusia riversiana

R Island Night Lizard

R U.S.A.

Family Agamidae

Hydrosaurus pustulatus

Family Iguanidae

Amblyrhynchus cristatus

Anolis roosevelti

Brachylophus fasciatus

Conolophus pallidus

Conolophus subcristatus

Cyclura carinata

Cyclura cornuta

Cyclura cychlura

Cyclura nubila

Cyclura pinguis

Cyclura ricordii

Cyclura rileyi

Gambelia silus

Phrynosoma cornatum blainvillei

Family Lacertidae

Gallotia simonyi

Podarcis filfolensis filfolensis

Family Teiidae

Ameiva polops

Cnemidophorus hyperythrus

Family Scincidae

Gongylomorphus bojerii fontenayi

Leiolopisma telfairii

Macrocincus coctaei

Family Anguidae

Gerrhonotus panamintus

Family Anniellidae

Anniella pulchra nigra

Family Helodermatidae

Heloderma horridum

Heloderma suspectum

Sail-fin Lizard

Galapagos Marine Iguana

Culebra Island Giant Anole

Fiji Banded Iguana

Barrington Land Iguana

Galapagos Land Iguana

Turks & Caicos Rock Iguana

Rhinoceros Rock Iguana

Andros Ground Iguana

Cuban Ground Iguana

Anegada Ground Iguana

Hispaniolan Ground Iguana

San Joaquin Leopard Lizard

San Diego Horned Lizard

Hierro Giant Lizard

Filfola Lizard

St Croix Ground Lizard

Orange-throated Whiptail

Macab Forest Skink

Round Island Skink

Cape Verde Giant Skink

Panamint Alligator Lizard

Black Legless Lizard

Beaded Lizard

Gila Monster

V

Philippines

R

Galapagos Is

E

Culebra I. (Puerto Rico)

E

Fiji, Tonga

R

Galapagos Is

V

Galapagos Is

R

Bahamas, Turks & Caicos

T

Hispaniola, Mona I.

R

Bahamas

V

Cayman Is, Cuba

E

Anegada (British Virgin Is)

K

Hispaniola

T

Bahamas

E

U.S.A.

K

Mexico, U.S.A.

E

Hierro (Canary Is)

R

Filfola I. (Malta)

E

U.S. Virgin Is

V

Mexico, U.S.A.

R

Mauritius

R

Round I.

I

Cape Verde Is

K

U.S.A.

E

U.S.A.

I

Guatemala, Mexico

V

Mexico, U.S.A.

Family Varanidae

Varanus griseus caspius
Varanus komodoensis

Order SERPENTES

Family Typhlopidae

Typhlops monensis

Family Boidae

Acrantophis dumerili
Acrantophis madagascariensis
Bolyeria multocarinata
Casarea dussumieri
Charina bottae umbratica
Epicrates angulifer
Epicrates inornatus
Epicrates monensis
Epicrates striatus fosteri
Epicrates subflavus
Python molurus
Sanzinia madagascariensis

Family Colubridae

Drymarchon corais couperi
Masticophis flagellum ruddocki
Masticophis lateralis euryxanthus
Nerodia fasciata taeniata
Nerodia sipedon insularum
Thamnophis couchi gigas
Thamnophis couchi hammondi
Thamnophis sirtalis tetrataenia

Family Elapidae

Naja oxiana
Ogmodon vitianus

Family Viperidae

Bothrops insularis
Crotalus unicolor
Crotalus willardi
Vipera ammodytes transcaucasiana
Vipera latifii
Vipera lebetina schweizeri
Vipera raddei

Central Asian Monitor
Komodo Dragon

Mona Blind Snake

Madagascar Boa
Round Island Boa
Round Island Keel-scaled Boa
Southern Rubber Boa
Cuban Tree Boa
Puerto Rican Boa
Mona Boa
Bimini Boa
Jamaican Boa
Indian Python

Eastern Indigo Snake
San Joaquin Coachwhip
Alameda Striped Racer
Atlantic Saltmarsh Snake
Lake Erie Water Snake
Giant Garter Snake
Two-striped Garter Snake
San Francisco Garter Snake

Central Asian Cobra
Fiji Snake

Queimada Island Bothrops
Aruba Island Rattlesnake
Arizona Ridge-nosed Rattlesnake
Transcaucasian Long-nosed Viper
Latifi's Viper
Lebetine Viper
Armenian Viper

V West Asia
R Indonesia

R Mona I.

K Madagascar
K Madagascar
E Round I.
E Round I.
R U.S.A.
I Cuba
E Puerto Rico
R Mona I.
R Bahamas
V Jamaica
V South & South-east Asia
K Madagascar

V U.S.A.
R U.S.A.
R U.S.A.
R U.S.A.
K U.S.A.
R U.S.A.
R Mexico, U.S.A.
E U.S.A.

E Central Asia
V Fiji

K Queimada I. (Brazil)
R Aruba I. (Netherlands Antilles)
T Mexico, U.S.A.
R Turkey, U.S.S.R.
E Iran
V Cyclades Is
R Turkey, U.S.S.R.

CLASS AMPHIBIA

Order CAUDATA

Family Cryptobranchidae

Andrias davidianus
Andrias japonicus

Chinese Giant Salamander
Japanese Giant Salamander

I
R

China
Japan

Family Ambystomatidae

Ambystoma californiense
Ambystoma dumerilii dumerilii
Ambystoma lermaensis
Ambystoma macrodactylum croceum
Ambystoma mexicanum

California Tiger Salamander
Lake Patzcuaro Salamander
Lake Lerma Salamander
Santa Cruz Long-toed Salamander
Axolotl

V
R
R
E
R

U.S.A.
Mexico
Mexico
U.S.A.
Mexico

Family Salamandridae

Chioglossa lusitanica

Gold-striped Salamander

V

Portugal, Spain

Family Plethodontidae

Batrachoseps aridus
Batrachoseps simatus
Batrachoseps stebbinsi
Eurycea nana
Hydromantes brunus
Hydromantes shastae
Phaeognathus hubrichti
Plethodon larselli
Plethodon neomexicanus
Plethodon richmondi nettingi
Typhlomolge rathbuni
Typhlotriton spelaeus

Desert Slender Salamander
Kern Canyon Slender Salamander
Tehachapi Slender Salamander
San Marcos Salamander
Limestone Salamander
Shasta Salamander
Red Hills Salamander
Larch Mountain Salamander
Jemez Mountain Salamander
Cheat Mountain Salamander
Texas Blind Salamander
Grotto Salamander

E
R
R
R
R
R
R
R
I
V
K
E
K

U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.
U.S.A.

Family Proteidae

Proteus anguinus

Olm

V

Italy, Yugoslavia

Order ANURA

Family Leiopelmatidae

Leiopelma archeyi
Leiopelma hamiltoni
Leiopelma hochstetteri

Archey's Frog
Hamilton's Frog
Hochstetter's Frog

R
R
R

New Zealand
New Zealand
New Zealand

Family Pipidae

Xenopus gilli

Cape Platanna

V

South Africa

Family Discoglossidae

Discoglossus nigriventer

Israel Painted Frog E Israel

Family Pelobatidae

Pelobates fuscus insubricus

Italian Spadefoot Toad E Italy

Family Leptodactylidae

Batrachophrynus macrostomus

K Peru

Eleutherodactylus jasperii

R Puerto Rico

Family Myobatrachidae

Philoria frosti

R Australia

Rheobatrachus silus

V Australia

Family Bufonidae

Bufo boreas nelsoni

I U.S.A.

Bufo exsul

V U.S.A.

Bufo houstonensis

E U.S.A.

Bufo periglones

E Costa Rica

Bufo retiformis

V Mexico, U.S.A.

Nectophrynoides occidentalis

V Guinea, Ivory Coast

Family Hylidae

Hyla andersoni

R U.S.A.

Pseudacris streckeri illinoensis

I U.S.A.

Family Ranidae

Conraua goliath

V Cameroon, Eq. Guinea

Nesomantis thomasseti

I Seychelles

Rana latastei

V Italy, Switzerland, Yugoslavia

Rana pipiens fisheri

E U.S.A.

Sooglossus gardineri

I Seychelles

Sooglossus sechellensis

I Seychelles

Family Hyperoliidae

Tachynemis seychellensis

K Seychelles

CLASS CEPHALASPIDOMORPHI

Order PETROMYZONTIFORMES

Family Petromyzontidae

Lampetra minima

Miller Lake Lamprey

Ex [U.S.A.]

Fish

CLASS OSTEICHTHYES

Order ACIPENSERIFORMES

Family Acipenseridae

<u>Acipenser brevirostrum</u>	Shortnose Sturgeon	V	Canada, U.S.A.
<u>Acipenser fulvescens</u>	Lake Sturgeon	V	Canada, U.S.A.
<u>Acipenser oxyrinchus</u>	Atlantic Sturgeon	V	Canada, U.S.A.
<u>Acipenser schrencki</u>	Amur Sturgeon	V	U.S.S.R.
<u>Huso dauricus</u>	Kaluga	R	U.S.S.R.
<u>Scaphirhynchus albus</u>	Pallid Sturgeon	E	U.S.A.

Family Polyodontidae

<u>Polyodon spathula</u>	Paddlefish	I	U.S.A.
--------------------------	------------	---	--------

Order OSTEOGLOSSIFORMES

Family Osteoglossidae

<u>Arapaima gigas</u>	Pirarucu	V	Amazon Basin
<u>Scleropages formosus</u>	Asian Bonytongue	K	South-east Asia

Family Notopteridae

<u>Notopterus blanci</u>	Featherback	R	Kampuchea, Thailand
--------------------------	-------------	---	---------------------

Order CYPRINIFORMES

Family Cyprinidae

<u>Acanthorutilus handlirschi</u>	Ciek	E	Turkey
<u>Barbus afer</u>	Eastern Cape Redfin	R	South Africa
<u>Barbus asper</u>	Small-scaled Redfin	V	South Africa
<u>Barbus burchelli</u>	Burchell's Redfin	R	South Africa
<u>Barbus burgi</u>	Berg River Redfin	R	South Africa
<u>Barbus calidus</u>	Clanwilliam Redfin	R	South Africa
<u>Barbus capensis</u>	Clanwilliam Yellowfish	R	South Africa
<u>Barbus cumingi</u>	Cuming's Two-banded Barb	V	Sri Lanka
<u>Barbus erubescens</u>	Twee River Redfin	V	South Africa
<u>Barbus nigrofasciatus</u>	Black Ruby Barb	V	Sri Lanka
<u>Barbus phlegethon</u>	Fieri Redfin	E	South Africa
<u>Barbus pleurotaenia</u>	Side Striped Barb	V	Sri Lanka
<u>Barbus tenuis</u>	Slender Redfin	R	South Africa
<u>Barbus titteya</u>	Cherry Barb	V	Sri Lanka
<u>Barbus treurenensis</u>	Treur River Barb	E	South Africa
<u>Barbus trevelyani</u>	Border Barb	E	South Africa
<u>Chela caeruleostigmata</u>	Devil's River Minnow	R	Thailand
<u>Dionda diaboli</u>	Bicolor Minnow	V	Mexico, U.S.A.
<u>Dionda dichroma</u>		R	Mexico

<u>Dionda mandibularis</u>		
<u>Eremichthys acros</u>	V	U.S.A.
<u>Evarra bustamantei</u>	Ex	[Mexico]
<u>Evarra eigenmanni</u>	Ex	[Mexico]
<u>Evarra tlahuacensis</u>	Ex	[Mexico]
<u>Gila alvordensis</u>	V	U.S.A.
<u>Gila bicolor</u> (subspecies)	T*	U.S.A.
<u>Gila boraxobius</u>	V	U.S.A.
<u>Gila crassicauda</u>	V	U.S.A.
<u>Gila cypha</u>		
<u>Gila ditaenia</u>		
<u>Gila elegans</u>		
<u>Gila intermedia</u>		
<u>Gila modesta</u>		
<u>Gila nigrescens</u>		
<u>Gila purpurea</u>		
<u>Gila robusta</u>		
<u>Hemitremia flammea</u>		
<u>Hybopsis cahni</u>		
<u>Hybopsis crameri</u>		
<u>Hybopsis labrosa</u>		
<u>Hybopsis monacha</u>		
<u>Iotichthys phlegethontis</u>		
<u>Labeo fisheri</u>	E	Sri Lanka
<u>Lepidomeda albivallis</u>	E	U.S.A.
<u>Lepidomeda altivelis</u>	Ex	[U.S.A.]
<u>Lepidomeda mollispinis</u>	V	U.S.A.
<u>Lepidomeda vittata</u>	V	U.S.A.
<u>Meda fulgida</u>	V	U.S.A.
<u>Moapa coriacea</u>	V	U.S.A.
<u>Notropis aguirrequenoi</u>	V	Mexico
<u>Notropis bocagrande</u>	V	Mexico
<u>Notropis caeruleus</u>	V	U.S.A.
<u>Notropis callitaenia</u>	V	U.S.A.
<u>Notropis formosus</u>	V	Mexico, U.S.A.
<u>Notropis hubbsi</u>	R	U.S.A.
<u>Notropis jemezianus</u>	I	U.S.A.
<u>Notropis mekistocholas</u>	V	U.S.A.
<u>Notropis orca</u>		
<u>Notropis perpallidus</u>		
<u>Notropis proserpinus</u>		
<u>Notropis semperasper</u>		
<u>Notropis simus</u>	Ex	[Mexico]
	V	U.S.A.
	V	U.S.A.
	R	U.S.A.
	V	U.S.A.
	E	Mexico
Flatjaw Minnow		
Desert Dace		
Alvord Chub		
Tui Chub		
Borax Lake Chub		
Thicktail Chub		
Humpback Chub		
Sonora Chub		
Bonytail		
Gila Chub		
Salttillo Chub		
Chihuahuan Chub		
Yaqui Chub		
Roundtail Chub		
Flame Chub		
Slender Chub		
Oregon Chub		
Thicklip Chub		
Spotfin Chub		
Least Chub		
Green Labeo		
White River Spinedace		
Pahrnagat Spinedace		
Virgin Spinedace		
Little Colorado Spinedace		
Spikedace		
Moapa Dace		
Pilon Shiner		
Bigmouth Shiner		
Blue Shiner		
Bluestripe Shiner		
Beautiful Shiner		
Bluehead Shiner		
Rio Grande Shiner		
Cape Fear Shiner		
Phantom Shiner		
Peppered Shiner		
Proserpine Shiner		
Roughhead Shiner		
Bluntnose Shiner		

Notropis welaka
Notropis xanthicara
Oreodaimon quathlambae
Phenacobius teretulus
Phoxinus cumberlandensis
Plagopterus argentissimus
Pogonichthys ciscooides
Pogonichthys macrolepidotus
Probarbus jullieni
Ptychocheilus lucius
Rasbora vaterifloris
Relictus solitarius
Rhinichthys deaconi
Rhinichthys osculus (subspecies)
Semotilus lumbee
Stypodon signifer
Tanakia tanago
Tiaroga cobitus
Tylognathus klatti

Bluenose Shiner
 Cuatro Ciénegas Shiner
 Drakensberg Minnow
 Kanawha Minnow
 Blackside Dace
 Woundfin
 Clear Lake Splittail
 Splittail
 Ikan Temoleh
 Colorado River Squawfish
 Vateria Flower Rasbora
 Relict Dace
 Las Vegas Dace
 Speckled Dace
 Sandhills Chub
 Stumptooth Minnow
 Tokyo Bitterling
 Loach Minnow

R U.S.A.
 E Mexico
 E Lesotho
 V U.S.A.
 V U.S.A.
 E U.S.A.
 Ex [U.S.A.]
 R U.S.A.
 I South-east Asia
 E U.S.A.
 V Sri Lanka
 V U.S.A.
 Ex [U.S.A.]
 T* Canada, U.S.A.
 R U.S.A.
 Ex [Mexico]
 E Japan
 V U.S.A.
 E Turkey

Family Cobitidae

Lepidocephalus jonklassi
Leptobotia curta

E Sri Lanka
 E Japan

Family Catostomidae

Catostomus bernardini
Catostomus fumeiventris
Catostomus luxatus
Catostomus microps
Catostomus warnerensis
Catostomus wigginsi
Chasmistes breviostris
Chasmistes cujus
Chasmistes liorus
Chasmistes muriei
Lagochila lacera
Moxostoma hamiltoni
Moxostoma hubbsi
Xyrauchen texanus

Yaqui Sucker
 Owens Sucker
 Lost River Sucker
 Modoc Sucker
 Warner Sucker
 Opata Sucker
 Shortnose Sucker
 Cui-ui
 June Sucker
 Snake River Sucker
 Harelip Sucker
 Rustyside Sucker
 Copper Redhorse
 Razorback Sucker

V Mexico, U.S.A.
 R U.S.A.
 V U.S.A.
 E U.S.A.
 E U.S.A.
 R Mexico
 E U.S.A.
 E U.S.A.
 E U.S.A.
 Ex [U.S.A.]
 Ex [U.S.A.]
 R U.S.A.
 V Canada
 E U.S.A.

Order CHARACIFORMES

Family Characidae

Catabasis acuminatus
Gymnocharacinus bergi

Order SILURIFORMES

Family Diplomystidae

Diplomystes chilensis

Family Ictaluridae

Ictalurus mexicanus
Ictalurus pricei
Noturus bailei
Noturus flavipinnis
Noturus furiosus
Noturus gilberti
Noturus lachneri
Noturus munitus
Noturus placidus
Noturus stanauli
Noturus taylori
Noturus trautmani
Prietella phreatophila
Satan eurystomus
Trogloglanis pattersoni

Family Bagridae

Coreobagrus ichikawai
Gephryoglanis gilli

Family Pangasiidae

Pangasianodon gigas
Pangasius sanitwongsei

Family Clariidae

Clarias cavernicola

Order SALMONIFORMES

Family Umbridae

Novumbra hubbsi

E Brazil
V Argentina

E Chile

R Mexico
R Mexico
E U.S.A.
E U.S.A.
V U.S.A.
V U.S.A.
E U.S.A.
V U.S.A.
V U.S.A.
R U.S.A.
R U.S.A.
E U.S.A.
I Mexico
R U.S.A.
R U.S.A.

E Japan
R South Africa

V Mekong Basin
R Thailand

E Namibia

R U.S.A.

Naked Characin

Tollo de Agua Dulce

Rio Verde Catfish
Yaqui Catfish
Smoky Madtom
Yellowfin Madtom
Carolina Madtom
Orangefin Madtom
Ouachita Madtom
Frecklebelly Madtom
Neosho Madtom
Pygmy Madtom
Caddo Madtom
Scioto Madtom
Muzquiz Blindcat
Widemouth Blindcat
Toothless Blindcat

Nekogigi
Clanwilliam Rock-catfish

Giant Catfish
Catfish

Cave Catfish

Olympic Mudminnow

Family OsmeridaeOsmerus spectrum

R Canada, U.S.A.

Pygmy Smelt

Family RetropinnidaePrototroctes oxyrhynchus

EX [New Zealand]

New Zealand Greyling

Family GalaxiidaeGalaxias postvectis

I New Zealand

Shortjawed Kokopu

Neochanna burrowsius

R New Zealand

Canterbury Mudfish

Neochanna diversus

I New Zealand

Black Mudfish

Family SalmonidaeCoregonus alpenae

EX [Great Lakes (North America)]

Longjaw Cisco

Coregonus canadensis

E Great Lakes (North America)

Atlantic Whitefish

Coregonus hoyi

I Great Lakes (North America)

Bloater

Coregonus johannae

EX Great Lakes (North America)

Deepwater Cisco

Coregonus kiyi

V Great Lakes (North America)

Kiyi

Coregonus nigripinnis

V Great Lakes (North America)

Blackfin Cisco

Coregonus reighardi

V Great Lakes (North America)

Shortnose Cisco

Coregonus zenithicus

V Great Lakes (North America)

Shortjaw Cisco

Salmo apache

V U.S.A.

Apache Trout

Salmo chrysogaster

I Mexico

Mexican Golden Trout

Salmo clarki (subspecies)

T* U.S.A.

Cutthroat Trout

Salmo gilae

E U.S.A.

Gila Trout

Salmo platycephalus

E Turkey

Ala Balik

Salvelinus agassizi

EX [Mexico]

Silver Trout

Stenodus leucichthys leucichthys

V U.S.S.R.

Order PERCOPSIFORMES**Family Amblyopsidae**Amblyopsis rosae

V U.S.A.

Ozark Cavefish

Amblyopsis spelaea

V U.S.A.

Northern Cavefish

Speoplatyrhinus poulsoni

V U.S.A.

Alabama Cavefish

Order CYPRINODONTIFORMES**Family Aplocheilidae**Rivulus robustus

R Mexico

Mexican Rivulus

Family CyprinodontidaeCampellobias brucei

E Brazil

Santa Catarina Sabrefin

Crenichthys baileyi

V U.S.A.

White River Springfish

Crenichthys nevadae

V U.S.A.

Railroad Valley Springfish

Cualac tessellatus

V Mexico

Media Luna Killie

<u>Cynolebias constanciae</u>			I	Brazil
<u>Cynolebias marmoratus</u>	Ginger Pearlfish		I	Brazil
<u>Cynolebias minutus</u>	Minute Pearlfish		I	Brazil
<u>Cynolebias opalescens</u>	Opalescent Pearlfish		I	Brazil
<u>Cynolebias splendens</u>	Splendid Pearlfish		I	Brazil
<u>Cyprinodon alvarezi</u>	Potosi Pupfish		E	Mexico
<u>Cyprinodon atrorus</u>	Bolson Pupfish		R	Mexico
<u>Cyprinodon beltrani</u>	Blackfin Pupfish		R	Mexico
<u>Cyprinodon bifasciatus</u>	Cuatro Cienegas Pupfish		R	Mexico
<u>Cyprinodon bovinus</u>	Leon Springs Pupfish		E	U.S.A.
<u>Cyprinodon diabolis</u>	Devils Hole Pupfish		V	U.S.A.
<u>Cyprinodon elegans</u>	Comanche Springs Pupfish		E	U.S.A.
<u>Cyprinodon eximius</u>	Conchos Pupfish		V	Mexico, U.S.A.
<u>Cyprinodon fontinalis</u>	Carbonera Pupfish		E	Mexico
<u>Cyprinodon labiosus</u>	Thicklip Pupfish		R	Mexico
<u>Cyprinodon latifasciatus</u>	Paras Pupfish		Ex	[Mexico]
<u>Cyprinodon macrolepis</u>	Bigscale Pupfish		R	Mexico
<u>Cyprinodon macularius</u>	Desert Pupfish		E	Mexico, U.S.A.
<u>Cyprinodon maya</u>	Maya Pupfish		R	Mexico
<u>Cyprinodon meeki</u>	Mezquital Pupfish		V	Mexico
<u>Cyprinodon nevadensis</u>	Amargosa Pupfish		V	U.S.A.
<u>Cyprinodon pachycephalus</u>	Bighead Pupfish		V	Mexico
<u>Cyprinodon radiosus</u>	Owens Pupfish		E	U.S.A.
<u>Cyprinodon simus</u>	Vertical Jaw Pupfish		R	Mexico
<u>Cyprinodon tularosa</u>	White Sands Pupfish		R	U.S.A.
<u>Cyprinodon verrecundus</u>	Largefin Pupfish		R	Mexico
<u>Empetrichthys latos</u>	Pahrump Killifish		V	U.S.A.
<u>Empetrichthys merriami</u>	Ash Meadows Killifish		Ex	[U.S.A.]
<u>Fundulus albolineatus</u>	Whiteline Topminnow		Ex	[U.S.A.]
<u>Fundulus julisia</u>	Barrens Topminnow		V	U.S.A.
<u>Fundulus waccamensis</u>	Waccamaw Killifish		V	U.S.A.
<u>Kosswigichthys asquamatus</u>	Scaleless Killifish		V	Turkey
<u>Lucania interioris</u>	Sardinilla Cuatro Cienegas		V	Mexico
<u>Micropanchax schoelleri</u>	Caterina Pupfish		I	Egypt
<u>Megupsilon aporus</u>			E	Mexico
<u>Orestias cuvieri</u>			E	Bolivia
<u>Simpsonichthys boitonei</u>	Brasilia Lyrefin		R	Brazil

Family Goodeidae

<u>Allotoca maculata</u>					
<u>Ataeniobius toweri</u>					Mexico
<u>Characodon lateralis</u>					Mexico
<u>Skiffia francescae</u>					Mexico
<u>Xenoporphus captivus</u>					Mexico
Family Poeciliidae					
<u>Gambusia alvarezi</u>		Guayacon de San Gregorio		R	Mexico
<u>Gambusia amistadensis</u>		Amistad Gambusia		EX	[U.S.A.]
<u>Gambusia gaigei</u>		Big Bend Gambusia		E	U.S.A.
<u>Gambusia georgei</u>		San Marcos Gambusia		E	U.S.A.
<u>Gambusia heterochir</u>		Clear Creek Gambusia		E	U.S.A.
<u>Gambusia hurtadoi</u>		Guayacon de Hacienda Dolores		R	Mexico
<u>Gambusia longispinis</u>		Guayacon de Cuatro Ciénegas		R	Mexico
<u>Gambusia nobilis</u>		Pecos Gambusia		E	U.S.A.
<u>Poeciliopsis occidentalis</u>		Gila Topminnow		V	Mexico, U.S.A.
<u>Xiphophorus couchianus</u>		Monterrey Platyfish		E	Mexico
<u>Xiphophorus gordonii</u>		Cuatro Ciénegas Platyfish		R	Mexico

Order ATHERINIFORMES**Family Atherinidae**

<u>Menidia conchorum</u>		Key Silverside		R	U.S.A.
<u>Menidia extensa</u>		Waccamaw Silverside		V	U.S.A.

Family Phallostethidae

<u>Phallostethus dunckeri</u>				I	Malaysia
-------------------------------	--	--	--	---	----------

Order SCORPAENIFORMES**Family Cottidae**

<u>Cottus asperimus</u>		Rough Sculpin		R	U.S.A.
<u>Cottus echinatus</u>		Utah Lake Sculpin		EX	[U.S.A.]
<u>Cottus extensus</u>		Bear Lake Sculpin		R	U.S.A.
<u>Cottus greeniei</u>		Shoshone Sculpin		V	U.S.A.
<u>Cottus princeps</u>		Klamath Lake Sculpin		R	U.S.A.
<u>Cottus pygmaeus</u>		Pygmy Sculpin		V	U.S.A.

Order PERCIFORMES**Family Centrarchidae**

<u>Ambloplites cavifrons</u>		Roanoke Bass		R	U.S.A.
<u>Micropterus notius</u>		Suwannee Bass		R	U.S.A.
<u>Micropterus treculi</u>		Guadalupe Bass		V	U.S.A.

Family Percidae

<u>Ammocrypta asprella</u>	Crystal Darter	R	U.S.A.
<u>Ammocrypta pellucida</u>	Eastern Sand Darter	V	Canada, U.S.A.
<u>Etheostoma acuticeps</u>	Sharphead Darter	V	U.S.A.
<u>Etheostoma aquali</u>	Coppercheek Darter	R	U.S.A.
<u>Etheostoma australe</u>	Conchos Darter	V	Mexico
<u>Etheostoma boschungii</u>	Slackwater Darter	V	U.S.A.
<u>Etheostoma cinereum</u>	Ashy Darter	R	U.S.A.
<u>Etheostoma ditrema</u>	Coldwater Darter	V	U.S.A.
<u>Etheostoma fonticola</u>	Fountain Darter	E	U.S.A.
<u>Etheostoma kanawhae</u>	Kanawha Darter	R	U.S.A.
<u>Etheostoma luteovinctum</u>	Redband Darter	R	U.S.A.
<u>Etheostoma mariae</u>	Pinewoods Darter	R	U.S.A.
<u>Etheostoma microlepidum</u>	Smallscale Darter	R	U.S.A.
<u>Etheostoma moorei</u>	Yellowcheek Darter	R	U.S.A.
<u>Etheostoma nianguae</u>	Niangua Darter	R	U.S.A.
<u>Etheostoma nuchale</u>	Watercross Darter	E	U.S.A.
<u>Etheostoma okaloosae</u>	Okaloosa Darter	V	U.S.A.
<u>Etheostoma pallidorsum</u>	Paleback Darter	R	U.S.A.
<u>Etheostoma pottsi</u>	Mexican Darter	V	Mexico
<u>Etheostoma rubrum</u>	Bayou Darter	V	U.S.A.
<u>Etheostoma saludae</u>	Saluda Darter	R	U.S.A.
<u>Etheostoma sellare</u>	Maryland Darter	E	U.S.A.
<u>Etheostoma striatulum</u>	Striated Darter	V	U.S.A.
<u>Etheostoma trisella</u>	Trispot Darter	V	U.S.A.
<u>Etheostoma tuscumbia</u>	Tuscumbia Darter	V	U.S.A.
<u>Perca schrenki</u>	Balkhash Perch	R	U.S.S.R.
<u>Percina antesella</u>	Amber Darter	V	U.S.A.
<u>Percina aurolineata</u>	Goldline Darter	V	U.S.A.
<u>Percina burtoni</u>	Blotchsided Logperch	R	U.S.A.
<u>Percina cymatotaenia</u>	Bluestripe Darter	R	U.S.A.
<u>Percina jenkinsi</u>	Conasauga Logperch	E	U.S.A.
<u>Percina lenticula</u>	Freckled Darter	R	U.S.A.
<u>Percina macrocephala</u>	Longhead Darter	V	U.S.A.
<u>Percina nasuta</u>	Longnose Darter	V	U.S.A.
<u>Percina pantherina</u>	Leopard Darter	V	U.S.A.
<u>Percina rex</u>	Roanoke Logperch	V	U.S.A.
<u>Percina tanasi</u>	Snail Darter	R	U.S.A.
<u>Romanichthys valsanicola</u>	Asprete	E	Rumania
<u>Totoaba macdonaldi</u>	Totoaba	E	Mexico

Family Sciaenidae

Totoaba macdonaldi

Family Cichlidae

Cichlasoma bartoni
Cichlasoma labridens
Cichlasoma minckleyi
Cichlasoma pantostictum
Cichlasoma steindachneri
Konia dikume
Konia eisentrauti
Mistichthys luzonensis
Myaka myaka
Pungu maclareni
Sarotherodon caroli
Sarotherodon linnellii
Sarotherodon lohbergeri
Sarotherodon steinbachi
Stomatepia mariae
Stomatepia mongo
Stomatepia pindu

Mojarra Caracolera
Mojarra
Mojarra
Mojarra
Mojarra
Dikume
Konye
Sinarapan
Myaka Myaka
Pungu
Fissi
Unga
Leka Keppe
Kululu
Nsess
Mongo
Pindu

V Mexico
V Mexico
V Mexico
R Mexico
R Mexico
V Cameroon
V Cameroon
V Philippines
V Cameroon
V Cameroon
V Cameroon
V Cameroon
V Cameroon
V Cameroon
V Cameroon
V Cameroon

Family Gobiidae

Eucyclogobius newberryi
Lentipes concolor
Sicydium stimpsoni

Tidewater Goby
Lizard Goby
O'opu Nopili

R U.S.-A.
V U.S.-A.
R U.S.-A.

Family Belontiidae

Belontia signata
Malpulutta kretseri

Combail
Ornate Paradisefish

R Sri Lanka
V Sri Lanka

Family Chaniidae

Channa orientalis

Smooth Breasted Snakehead

R Sri Lanka

Phylum CILIOPHORA

CLASS POLYHYMENOPHOREA

Order HETEROTRICHIDA

Family Stentoridae

Stentor introversus

Tartar's Stentor

K U.S.A.

Phylum CNIDARIA

CLASS ANTHOZOA

Order GORGONACEA

Family Plexauridae

Eunicella verrucosa

Broad Sea Fan

K Mediterranean Sea, North-east Atlantic Ocean

Family Coralliidae

Corallium

Precious Corals (20 species)

CT Mediterranean Sea, Pacific Ocean

Order ACTINIARIA

Family Edwardsiidae

Nematostella vectensis

Starlet Sea Anemone

V U.K., North America

Order ANTIPATHARIA

Family Anthipathidae

Black Coral (c 150 species)

CT Caribbean, Indo-Pacific

Phylum PLATYHELMINTHES

CLASS TURBELLARIA

Order TRICLADIDA

Family Kenkiidae

Kenkia rhynchida

Romankenkius pedderensis

Sphalloplana holsingeri

Sphalloplana subtilis

Malheur Cave Planarian

Lake Pedder Planarian

Holsinger's Groundwater Planarian

Biggers' Groundwater Planarian

R U.S.A.

Ex? [Tasmania]

E U.S.A.

E U.S.A.

Phylum NEMERTEA

CLASS ENOPLA

Order HOPLONEMERTEA

Family Prosorhochmidae

- Antiponemertes allisonae
Argonemertes australiensis
Argonemertes hillii
Argonemertes stocki
Geonemertes rodericana
Katechonemertes nightingaleensis
Leptonemertes chalicophora
Pantinonemertes agricola
Pantinonemertes enalios
Pantinonemertes winsori

Land Nemerterines

V New Zealand
 R Australia
 R Australia
 R Australia
 R Rodrigues
 R Tristan da Cunha
 R Madeira, Azores, Canary Is
 R Bermuda
 K Australia
 K Australia

Phylum MOLLUSCA

CLASS GASTROPODA

Order ARCHAEOGASTROPODA

Family Turbinidae

Turbo marmoratus

Green Snail

CT Indo-Pacific

Order MESOGASTROPODA

Family Valvatidae

Valvata utahensis

Utah Roundmouth Snail

I U.S.A.

Family Hydrobiidae

- Ammicola deserta
Aphaostracon asthenes
Aphaostracon monas
Aphaostracon pycnas
Aphaostracon xynoeiictus
Cincinnatia helicogyra
Cincinnatia mica
Cincinnatia monroensis
Cincinnatia parva
Cincinnatia ponderosa
Cincinnatia vanhyningi
Cincinnatia wekiwae
Coahuilix hubbsi

St George Snail
 Blue Spring Aphaostracon
 Wekiwa Springs Aphaostracon
 Compact Hydrobe Snail
 Fenney's Spring Hydrobe Snail
 Helicoid Spring Snail
 Enterprise Spring Snail
 Ponderous Spring Snail
 Seminole Spring Snail
 Wekiwa Spring Snail
 Coahuilix de Hubbs Snail

I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.
 V Mexico

<u>Cochliopa texana</u>	I	U.S.A.	Phantom Cave Snail
<u>Cochliopina milleri</u>	V	Mexico	Miller's Snail
<u>Durangonella coahuilae</u>	V	Mexico	Durangonella de Coahuila Snail
<u>Fluminicola avernalis</u>	I	U.S.A.	Muddy Valley Turban Snail
<u>Fluminicola erythropoma</u>	E	U.S.A.	Point of Rocks Spring Snail
<u>Fluminicola merriami</u>	I	U.S.A.	Pahrnagat Valley Turban Snail
<u>Fluminicola robusta</u>	I	U.S.A.	Elk Island Snail
<u>Fontelicella sp.</u>	V	U.S.A.	Roswell Fontelicella
<u>Fonticella neomexicana</u>	Ex?	[U.S.A.]	Socorro Spring Snail
<u>Lithoglyphus columbiana</u>	I	U.S.A.	Giant Columbia River Spire Snail
<u>Marstonia agarhecta</u>	I	U.S.A.	
<u>Marstonia castor</u>	I	U.S.A.	
<u>Marstonia ogmoraphe</u>	I	U.S.A.	Obese Marstonia Snail
<u>Mexipyrus carranzae</u>	V	Mexico	Mexipyrus de Carranza Snail
<u>Mexipyrus churinceanus</u>	V	Mexico	Mexipyrus de Churince Snail
<u>Mexipyrus escobeda</u>	V	Mexico	Mexipyrus de Escobeda Snail
<u>Mexipyrus lugoi</u>	V	Mexico	Mexipyrus de Lugo Snail
<u>Mexipyrus mojarrales</u>	V	Mexico	Mexipyrus de West El Mojarral Snail
<u>Mexipyrus multilineatus</u>	V	Mexico	Mexipyrus de East El Mojarral Snail
<u>Mexithauma quadripaludium</u>	V	Mexico	Mexithauma de Cienegas Snail
<u>Nymphophilus minckleyi</u>	V	Mexico	Nymphophilus de Minckley Snail
<u>Paludiscala caramba</u>	V	Mexico	Paludiscala de Oro Snail
<u>Somatogyrus catanotus</u>	I	U.S.A.	
<u>Somatogyrus parvulus</u>	I	U.S.A.	
<u>Somatogyrus tenax</u>	I	U.S.A.	
<u>Stiobia nana</u>	I	U.S.A.	
<u>Tryonia cheatumi</u>	I	U.S.A.	Cheatum's Snail
<u>Tryonia clathrata</u>	I	U.S.A.	White River Snail
<u>Tryonia imitator</u>	I	U.S.A.	California Brackish Water Snail
Family Assimineidae			
<u>Assimineae infirma</u>	I	U.S.A.	Badwater Snail
<u>Assimineae sp.</u>	V	U.S.A.	Pecos Assiminea Snail
Family Pleuroceridae			
<u>Athearni anthonyi</u>	I	U.S.A.	Anthony's River Snail
<u>Athearni crassa</u>	I	U.S.A.	Crass River Snail
<u>Goniobasis albanyensis</u>	I	U.S.A.	Albany River Snail
<u>Io fluviialis</u>	V	U.S.A.	Spiny River Snail
<u>Leptoxis praerosa</u>	I	U.S.A.	Mainstream River Snail
<u>Lithasia armigera</u>	I	U.S.A.	Armigerous River Snail
<u>Lithasia duttoniana</u>	I	U.S.A.	Dutton's River Snail
<u>Lithasia geniculata</u>	I	U.S.A.	Geniculate River Snail

<u>Lithasia jayana</u>	Jay's River Snail	I	U.S.A.
<u>Lithasia lima</u>	Elk River File Snail	I	U.S.A.
<u>Lithasia salebrosa</u>	Rugged River Snail	I	U.S.A.
<u>Lithasia verrucosa</u>	Verrucose File Snail	I	U.S.A.
Family Strombidae			
<u>Strombas gigas</u>	Queen Conch	CT	Caribbean
Family Cymatiidae			
<u>Charonia tritonis</u>	Triton's Trumpet	R	Indo-Pacific
Order GYMNOSOMATA			
Family Corambidae			
<u>Doridella batava</u>	Zuiderzee Doridella Sea Slug	K	Netherlands
Order BASOMMATOPHORA			
Family Lymnaeidae			
<u>Lymnaea kingii</u>	Utah Band Snail	I	U.S.A.
<u>Myxas glutinosa</u>	Glutinous Snail	V	Europe
<u>Stagnicola pilsbryi</u>	Fish Springs Pond Snail	I	U.S.A.
Family Laniidae			
<u>Fisherola nuttalli</u>	Giant Columbia River Limpet	I	U.S.A.
Family Physidae			
<u>Physa spelunca</u>	Wyoming Cave Snail	I	U.S.A.
<u>Physa utahensis</u>	Utah Bubble Snail	I	U.S.A.
<u>Physa zionis</u>	Zion Canyon Snail	I	U.S.A.
<u>Physa sp.</u>	Snake River Physa Snail	V	U.S.A.
<u>Stenophysa microstriata</u>	Fish Lake Snail	I	U.S.A.
Family Planorbidae			
<u>Ancylastrum cumingianus</u>	Tasmanian Freshwater 'Limpet'	E	Tasmania
<u>Helisoma jacksonense</u>	Jackson Lake Snail	I	U.S.A.
<u>Helisoma magnificum</u>	Cape Fear Ramshorn Snail	I	U.S.A.
<u>Segmentina nitida</u>	Greenfield Ramshorn Snail	V	Europe
<u>Iaphius eucoosmius eucoosmius</u>		I	U.S.A.
Order STYLOMMATOPHORA			
Family Achatinellidae			
<u>Achatinella</u> (41 species)	22 species Little Agate Shells	Ex	[Hawaii]
<u>Partulina confusa</u>	19 species Little Agate Shells	E	Hawaii

Partulina crassa Ex [Hawaii]
Partulina fusoides V Hawaii
Partulina montagui Ex [Hawaii]
Partulina perdix V Hawaii
Partulina splendida V Hawaii
Perdicella kuhnsi E/V Hawaii

Family Partulidae

Partula aurantia E/Ex Moorea
Partula exigua E Moorea
Partula gibba E Guam
Partula hebe E Society Is
Partula mirabilis E Moorea
Partula mooreana E Moorea
Partula radiolata K Guam
Partula salifana K Guam
Partula suturalis E Moorea
Partula taeniata E Moorea
Partula tohiveana E Moorea
Samoana abbreviata I American Samoa
Samoana diaphana E Society Is
Samoana solitaria E Society Is

Short Samoan Tree Snail

Family Amastridae

Carelia (all species)
Ihaanumia sp.

Family Pupillidae

Leiostyla abbreviata V Madeira
Leiostyla cassida V Madeira
Leiostyla corneocostata V Madeira
Leiostyla gibba V Madeira
Leiostyla lamellosa V Madeira
Sterkia clementina I U.S.A.

San Clemente Island Blunt-top Snail

Family Vertiginidae

Vertigo alabamensis I U.S.A.
Vertigo angustior V Europe
Vertigo genesii V Europe
Vertigo geyeri V Europe
Vertigo hebardei I U.S.A.
Vertigo moulinsiana V Europe

Family ClausiliidaeBalea perversa

V Europe

Family SuccineidaeCatinella arenaria

V Europe

Oxyloma haydeni kanabensis

I U.S.A.

Oxyloma sarsi

V Europe

Family StreptaxidaeGulella plantii

V South Africa

Family RhytididaeParyphanta busbyi

V New Zealand

Paryphanta compta

V New Zealand

Paryphanta fletcheri

V New Zealand

Paryphanta gilliesi

V New Zealand

Paryphanta hochstetteri

V New Zealand

Paryphanta lignaria

V New Zealand

Paryphanta rossiana

V New Zealand

Paryphanta traversi

V New Zealand

Family AcauidaeAnoglypta launcestonensis

E Tasmania

Family BulimulidaeBulimulus (31 endemic species)Placostylus ambagiosus

E Galapagos Is

Placostylus bollonsi

V New Zealand

Placostylus hongii

V New Zealand

Family ArionidaeBinneva notabilis

V U.S.A.

Geomalacus maculosus

R Ireland

Family EndodontidaeAnguispira picta

V U.S.A.

Discus defloratus

V Madeira

Discus guerinianus

V Madeira

Discus macclintocki

E U.S.A.

Discus marmorensis

I U.S.A.

Thaumatodon hystricelloides

E Western Samoa

Family Helicodiscidae

Helicodiscus diadema
Helicodiscus hexodon

I U.S.A.
I U.S.A.

Family Helicarionidae

Diastole matafaoi

I American Samoa

Family Zonitidae

Glyphyalinia pecki
Paravitrea clappi

I U.S.A.
I U.S.A.

Family Polygyridae

Ashmunella pasonis
Mesodon archeri
Mesodon clarki nantahala
Mesodon clausus trossulus
Mesodon clenchi
Mesodon magazinensis
Polygyra hippocrepis
Polygyra peregrina
Polygyris virginianus
Stenotrema hubrichti
Stenotrema leai cheatumi
Stenotrema pilsbryi
Triadopsis mullani magnidentata
Triadopsis occidentalis
Vespericola karokorum

I U.S.A.
I U.S.A.
V U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
E U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.

Mount Matafao Different Snail
Archer's Toothed Land Snail
Noonday Snail
Clench's Middle-toothed Land Snail
Magazine Mountain Middle-toothed Snail
Strange Many-whorled Land Snail
Virginia Fringed Mountain Snail
Pilsbry's Narrow-apertured Land Snail
Western Three-toothed Land Snail
Karok Indian Snail
Yate's Snail
Manus Green Tree Snail
Idaho Banded Mountain Snail
Vortex 7-ridged Mountain Snail
Coalville Mountain Snail
Carinated Striate Banded Mountain Snail
Walton's Banded Mountain Snail

Family Ammonitellidae

Ammonitella yatesi

I U.S.A.

Family Camaenidae

Papustyla pulcherrima

R Papua New Guinea

Family Oreohelicidae

Oreohelix avaloensis
Oreohelix idahoensis idahoensis
Oreohelix jugalis jugalis
Oreohelix jugalis vortex
Oreohelix peripherica weberiana
Oreohelix strigosa goniogyra
Oreohelix waltoni

I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.

Family Helminthoglyptidae

<u>Helminthoglypta allynsmithi</u>				I	U.S.A.
<u>Helminthoglypta arrosa pomoiensis</u>		Allyn Smith's Banded Snail		I	U.S.A.
<u>Helminthoglypta arrosa williamsi</u>				I	U.S.A.
<u>Helminthoglypta callistoderma</u>				I	U.S.A.
<u>Helminthoglypta mohaveana</u>				I	U.S.A.
<u>Helminthoglypta nickliniana awania</u>		Nicklin's Peninsula Snail		I	U.S.A.
<u>Helminthoglypta nickliniana bridgesi</u>				I	U.S.A.
<u>Helminthoglypta sequoicola consors</u>				I	U.S.A.
<u>Helminthoglypta traski coelata</u>		Banded Dune Snail		V	U.S.A.
<u>Helminthoglypta walkeriana</u>		Concentrated Snail		V	U.S.A.
<u>Micrarionta facta</u>		Fraternal Snail		I	U.S.A.
<u>Micrarionta feralis</u>		Gabb's Snail		I	U.S.A.
<u>Micrarionta gabbi</u>				I	U.S.A.
<u>Micrarionta immaculata</u>				I	U.S.A.
<u>Micrarionta morongoana</u>		Colorado Desert Snail		I	U.S.A.
<u>Micrarionta opuntia</u>		Prickly Pear Snail		I	U.S.A.
<u>Micrarionta rowelli bakerensis</u>				I	U.S.A.
<u>Micrarionta rowelli mcoiana</u>		California McCoy Snail		I	U.S.A.
<u>Monadenia circumcarinata</u>				I	U.S.A.
<u>Monadenia fidelis minor</u>				I	U.S.A.
<u>Monadenia fidelis pronotis</u>		Rocky Coast Snail		I	U.S.A.
<u>Monadenia hillebrandi yosemitansis</u>		Indian Yosemite Snail		I	U.S.A.
<u>Monadenia mormonum buttoni</u>				I	U.S.A.
<u>Monadenia mormonum hirsuta</u>				I	U.S.A.
<u>Monadenia setosa</u>				I	U.S.A.
<u>Monadenis troglodytes</u>		Trinity Bristle Snail		I	U.S.A.
<u>Sonorella eremita</u>				I	U.S.A.
<u>Sonorella metcalfi</u>				I	U.S.A.

Family Helicidae

<u>Caseolus calculus</u>				V	Madeira
<u>Caseolus commixta</u>				V	Madeira
<u>Caseolus sphaerula</u>				V	Madeira
<u>Discula leacockiana</u>				V	Madeira
<u>Discula tabellata</u>				V	Madeira
<u>Discula testudinalis</u>				V	Madeira
<u>Discula turricula</u>				V	Madeira
<u>Geomitra moniziana</u>		Cima Discula		V	Madeira
<u>Helix pomatia</u>		Roman Snail		R	Europe
<u>Helix subplicata</u>				V	Madeira

Family Eloniidae

Elona quimperiana

Escargot de quimper

R France, Spain

CLASS BIVALVIA

Order PTERIOIDA

Family Pteriidae

Pinctada margaritifera

Pinctada maxima

Black-lipped Pearl Oyster

Gold-lipped Pearl Oyster

CT Indo-Pacific

CT Indo-Pacific

Order UNIONOIDA

Family Unionidae

Alasmidonta arcuata

Alasmidonta atropurpurea

Alasmidonta heterodon

Alasmidonta raveneliana

Alasmidonta robusta

Alasmidonta wrightiana

Arkansia wheeleri

Canthyrria collina

Carunculina pulla

Conradilla caelata

Cyrogenia aberti

Cyrogenia irrorata

Cyrtoniaias tampicoensis tecomatensis

Dromus dromas

Elliptio marsupiobesa

Elliptio nigella

Elliptio spinosa

Elliptio steinstansana

Elliptio waccamawensis

Elliptio sp.

Epioblasma arcaeorformis

Epioblasma biemarginata

Epioblasma brevidens

Epioblasma capsaeformis

Epioblasma flexuosa

Epioblasma florentina curtisi

Epioblasma florentina florentina

Epioblasma haysiana

Epioblasma lefevrei

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

V U.S.A.

I U.S.A.

E U.S.A.

I U.S.A.

I U.S.A.

E Mexico

E U.S.A.

I U.S.A.

Ex [U.S.A.]

I U.S.A.

E U.S.A.

I U.S.A.

I U.S.A.

Ex? [U.S.A.]

Ex [U.S.A.]

I U.S.A.

I U.S.A.

Ex [U.S.A.]

Ex? [U.S.A.]

E U.S.A.

E U.S.A.

Ex [U.S.A.]

<u>Epioblasma lenior</u>	Stone's Pearly Mussel	EX	[U.S.A.]
<u>Epioblasma lewisi</u>	Lewis Pearly Mussel	Ex?	[U.S.A.]
<u>Epioblasma metastrata</u>		E	U.S.A.
<u>Epioblasma othcaloogensis</u>	Southern Acorn Riffle Shell	E	U.S.A.
<u>Epioblasma penita</u>	Penitent Mussel	E	U.S.A.
<u>Epioblasma personata</u>	Fine-rayed Pearly Mussel	EX	[U.S.A.]
<u>Epioblasma propinqua</u>	Nearby Pearly Mussel	EX	[U.S.A.]
<u>Epioblasma sampsoni</u>	Sampson's Pearly Mussel	E	U.S.A.
<u>Epioblasma stewardsoni</u>	Steward's Pearly Mussel	EX	[U.S.A.]
<u>Epioblasma sulcata delicata</u>	White Cat's Paw Mussel	E	U.S.A.
<u>Epioblasma sulcata sulcata</u>	Purple Cat's Paw Mussel	I	U.S.A.
<u>Epioblasma torulosa gubernaculum</u>	Green-blossom Pearly Mussel	E	U.S.A.
<u>Epioblasma torulosa rangiana</u>	Tan-blossom Pearly Mussel	E	Canada, U.S.A.
<u>Epioblasma torulosa torulosa</u>	Tubercled-blossom Pearly Mussel	E	U.S.A.
<u>Epioblasma triquetra</u>	Snuffbox	V	U.S.A.
<u>Epioblasma turgidula</u>	Turgid-blossom Pearly Mussel	E	U.S.A.
<u>Epioblasma walkeri</u>	Tan Riffle Shell Mussel	E	U.S.A.
<u>Fusconaia collina</u>	Virginia Spiny Mussel	I	U.S.A.
<u>Fusconaia cuneolus</u>	Fine-rayed Pigtoe Pearly Mussel	E	U.S.A.
<u>Fusconaia edgariana</u>	Shiny Pigtoe Pearly Mussel	E	U.S.A.
<u>Hemistena lata</u>	Cracking Pearly Mussel	I	U.S.A.
<u>Lampsilis higginsi</u>	Higgin's Eye Pearly Mussel	E	U.S.A.
<u>Lampsilis orbiculata</u>	Pick Musket Pearly Mussel	E	U.S.A.
<u>Lampsilis perovalis</u>		I	U.S.A.
<u>Lampsilis rafinesqueana</u>	Neosho Pearly Mussel	I	U.S.A.
<u>Lampsilis streckeri</u>		I	U.S.A.
<u>Lampsilis virescens</u>	Alabama Lamp Pearly Mussel	E	U.S.A.
<u>Lasmigona holstonia</u>		I	U.S.A.
<u>Leptodea leptodon</u>	Scale Shell	I	U.S.A.
<u>Lexingtonia dolabelloides</u>	Slab-side Pearly Mussel	I	U.S.A.
<u>Megaloniaias nicklineana</u>	Nicklin's Pearly Mussel	E	Mexico
<u>Obovaria retusa</u>	Golf Stick Pearly Mussel	I	U.S.A.
<u>Pegias fabula</u>	Little Winged Pearly Mussel	I	U.S.A.
<u>Plethobasus cicatricosus</u>	White Warty Back Pearly Mussel	E	U.S.A.
<u>Plethobasus cooperianus</u>	Cumberland Pigtoe	E	U.S.A.
<u>Pleurobema clava</u>	Northern Club Shell	I	U.S.A.
<u>Pleurobema curtum</u>	Curtus' Mussel	E	U.S.A.
<u>Pleurobema marshalli</u>	Marshall's Mussel	E	U.S.A.
<u>Pleurobema oviforme</u>		I	U.S.A.
<u>Pleurobema plenum</u>		E	U.S.A.
<u>Pleurobema rubrum</u>	Rough Pigtoe Pearly Mussel	E	U.S.A.
<u>Pleurobema taitianum</u>	Judge Tait's Mussel	E	U.S.A.

Potamilus capax
Potamilus inflatus
Quadrula cylindrica strigillata
Quadrula fragosa
Quadrula sparsa
Quadrula stapes
Simpsoniconcha ambigua
Toxolasma cylindrella
Villosa choctawensis
Villosa fabalis
Villosa ortmanni
Villosa perpurea
Villosa trabalis

Fat Pocketbook
Rough Rabbit's Foot Pearly Mussel
Rough Maple Leaf Pearly Mussel
Appalachian Monkey Face Pearly Mussel
Stirrup Shell
Salamander Mussel
Pale Lilliput Pearly Mussel
Choctaw Pearly Mussel
Ortmann's Pearly Mussel
Fine-rayed Purple Pearly Mussel
Cumberland Bean Pearly Mussel

E U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
E U.S.A.
E U.S.A.
I U.S.A.
E U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
E U.S.A.

Family Margaritiferidae
Cumberlandia monodonta
Margaritifera auricularia
Margaritifera margaritifera
Margaritifera marrianae

Spectacle Case Pearly Mussel
Spengler's Freshwater Mussel
Freshwater Pearl Mussel
Alabama Pearl Shell

I U.S.A.
I Europe
V Europe, North America
I U.S.A.

Order VENEROIDA

Family Tridacnidae
Hippopus hippopus
Hippopus porcellanus
Iridacna crocea
Iridacna derasa
Iridacna gigas
Iridacna maxima
Iridacna squamosa

Horse's Hoof Clam
China Clam
Crocus Clam
Southern Giant Clam
Giant Clam
Small Giant Clam
Scaly Clam

I Indo-Pacific
I Indo-Pacific
K Indo-Pacific
V Indo-Pacific
V Indo-Pacific
K Indo-Pacific
I Indo-Pacific

Family Sphaeriidae
Pisidium ultramontanum

I U.S.A.

Phylum ANNELIDA

CLASS POLYCHAETA

Order EUNICIDA
Family Eunicidae
Eunice viridis

K Pacific

Palolo Worm

Annelids

CLASS HIRUDINOIDEA**Order ARHYNCHOBDELLAE****Family Hirudinidae**Hirudo medicinalis

Medicinal Leech

I Europe

CLASS OLIGOCHAETA**Order HAPLOTAXIDA****Family Megascolecidae**Megascolides americanusMegascolides australisMegascolides macelfreshi

Washington Giant Earthworm

Giant Gippsland Earthworm

Oregon Giant Earthworm

E U.S.A.

V Australia

E U.S.A.

Family AcanthodrilidaeChilota (13 species)Diploprema (16 species)Microscolex (9 species)Udeina (59 species)

South African Acanthodriline Earthworms

V South Africa

V South Africa

V South Africa

V South Africa

Family MicrochaetidaeMicrochaetus (33 species)Iritogenia (5 species)

South African Giant Earthworms

V South Africa

V South Africa

Family LutodrilidaeLutodrilus multivesiculatus

R U.S.A.

Family KomarekionidaeKomarekiona eatoni

V U.S.A.

CLASS MEROSTOMATA**Order XIPHOSURA****Family Limulidae**Carcinoscorpius rotundicaudaLimulus polyphemusTachypleus gigasTachypleus tridentatus

Horseshoe Crabs

K

K

K

K

Phylum ARTHROPODA
Subphylum CHELICERATA

Coastal waters - Japan to Indonesia

Atlantic coast of North America

Coastal waters - Japan to Indonesia

Coastal waters - Japan to Indonesia

CLASS ARACHNIDA

Order ARANEAE
Family Theraphosidae
Brachypelma smithi

Red-kneed Tarantula

K Mexico

Family Dipluridae
Macrothele calpeiana
Macrothele cretica

V Spain
I Crete

Family Ctenizidae
Cyclocosimia torreya

I U.S.A.

Family Telemidae
Telema (whole genus)

I U.S.A.

Family Eresidae
Eresus niger

Ladybird Spider

I Europe

Family Linyphiidae
Troglophantes gracilis
Troglophantes similis
Troglophantes spinipes

Kocevje Subterranean Spider
Kocevje Subterranean Spider
Kocevje Subterranean Spider

R Yugoslavia
R Yugoslavia
R Yugoslavia

Family Asauridae
Dolomedes plantarius

Great Raft Spider

V Northern Europe

Family Araneidae
Meta dolloff

I U.S.A.

Family Gnaphosidae
Cesonia irvingi

I Bahamas, U.S.A.

Family Lycosidae
Adelocosa anops
Lycosa ericeticola
Pardosa diuturna
Sosippus placidus

No-eyed Big-eyed Wolf Spider
Glacier Bay Wolf Spider

E U.S.A.
I U.S.A.
R U.S.A.
I U.S.A.

Order PSEUDOSCORPIONIDA

Family Neobisiidae
Microcreagris imperialis

I U.S.A.

Order OPILIONES
 Family Phalangodidae
Banksula melones

Melones Bay Harvestman

V U.S.A.

Subphylum CRUSTACEA

CLASS CRUSTACEA

Order ANOSTRACA
 Family Artemiidae
Artemia monica

Mono Lake Brine Shrimp

I U.S.A.

Family Branchinectidae
Branchinecta gigas
Branchinecta paludosa

Giant Fairy Shrimp

I Western North America
 R Czechoslovakia

Order THORACICA
 Family Balanidae
Armatobalanus nefrens
Balanus aquila

I U.S.A.
 I U.S.A.

Order ANASPIDACEA
 Family Anaspidae
Allanaspides helonomus
Allanaspides hickmani
Anaspides spinulæ
Anaspides tasmaniae
Paranaspides lacustris

V Tasmania
 V Tasmania
 V Tasmania
 V Tasmania
 V Tasmania

Family Koonungidae
Koonunga cursor
Micraspides calmani

R Tasmania, Australia
 R Tasmania

Family Psammaspidae
Eucrenonaspides oinotheke

V Tasmania

Order ISOPODA
 Family Cirolanidae
Antrolana lira
Arubolana imula
Mexilana saluposi
Speocirolana affinis
Speocirolana interstitialis
Speocirolana thermydromis

Madison Cave Isopod

V U.S.A.
 I Netherlands
 K Mexico
 K Mexico
 K Mexico
 K Mexico

Family Sphaeromatidae

<u>Thermosphaeroma dugesi</u>	K	Mexico
<u>Thermosphaeroma milleri</u>	K	Mexico
<u>Thermosphaeroma smithi</u>	K	Mexico
<u>Thermosphaeroma subequalum</u>	K	Mexico
<u>Thermosphaeroma thermophilum</u>	E	U.S.A.

Socorro Isopod

Family Trichoniscidae

<u>Metatriconiscoides celticus</u>	V	U.K.
------------------------------------	---	------

Family Asellidae

<u>Caecidotea barri</u>	I	U.S.A.
<u>Caecidotea macropoda</u>	I	U.S.A.
<u>Caecidotea nickajackensis</u>	I	U.S.A.
<u>Lirceus culveri</u>	I	U.S.A.
<u>Lirceus usdagalum</u>	I	U.S.A.

Clifton Cave Isopod

Bat Cave Isopod

Nickajack Cave Isopod

Rye Cove Cave Isopod

Lee County Cave Isopod

Family Stenasellidae

<u>Mexistenasellus coahuila</u>	I	Mexico
<u>Mexistenasellus parzefalli</u>	R	Mexico
<u>Mexistenasellus wilkensi</u>	R	Mexico

Parzefall's Stenasellid

Wilkens' Stenasellid

Order AMPHIPODA

Family Gammaridae

<u>Gammarus acherondytes</u>	I	U.S.A.
<u>Gammarus bousfieldi</u>	I	U.S.A.
<u>Gammarus desperatus</u>	I	U.S.A.
<u>Gammarus hyalieioides</u>	I	U.S.A.
<u>Gammarus pecos</u>	I	U.S.A.

Illinois Cave Amphipod

Bousfield's Amphipod

Noel's Amphipod

Diminutive Amphipod

Pecos Amphipod

Family Crangonyctidae

<u>Allocrangonyx hubrichti</u>	I	U.S.A.
<u>Allocrangonyx pellucidus</u>	I	U.S.A.
<u>Crangonyx dearolfi</u>	I	U.S.A.
<u>Crangonyx grandimanus</u>	I	U.S.A.
<u>Crangonyx hobbsi</u>	I	U.S.A.
<u>Stygobromus araeus</u>	I	U.S.A.
<u>Stygobromus arizonensis</u>	I	U.S.A.
<u>Stygobromus balconius</u>	I	U.S.A.
<u>Stygobromus barri</u>	I	U.S.A.
<u>Stygobromus bifurcatus</u>	I	U.S.A.

Central Missouri Cave Amphipod

Oklahoma Cave Amphipod

Pennsylvania Cave Amphipod

Florida Cave Amphipod

Hobb's Cave Amphipod

Tidewater Interstitial Amphipod

Arizona Cave Amphipod

Balcones Cave Amphipod

Barr's Cave Amphipod

Bifurcated Cave Amphipod

<u>Stygobromus bowmani</u>	Bowman's Cave Amphipod	I	U.S.A.
<u>Stygobromus clantoni</u>	Clanton's Cave Amphipod	I	U.S.A.
<u>Stygobromus conradi</u>	Burnsville Cave Cave Amphipod	I	U.S.A.
<u>Stygobromus cooperi</u>	Cooper's Cave Amphipod	I	U.S.A.
<u>Stygobromus dejectus</u>	Cascade Cave Amphipod	I	U.S.A.
<u>Stygobromus elatus</u>	Elevated Spring Amphipod	I	U.S.A.
<u>Stygobromus emarginatus</u>	Greenbrier Cave Amphipod	I	U.S.A.
<u>Stygobromus ephemerus</u>	Ephemerat Cave Amphipod	I	U.S.A.
<u>Stygobromus flagellatus</u>	Ezell's Cave Amphipod	I	U.S.A.
<u>Stygobromus gradyi</u>	Grady's Cave Amphipod	I	U.S.A.
<u>Stygobromus hadenoecus</u>	Devil's Sinkhole Amphipod	I	U.S.A.
<u>Stygobromus harai</u>	Hara's Cave Amphipod	I	U.S.A.
<u>Stygobromus hayi</u>	Hay's Spring Amphipod	I	U.S.A.
<u>Stygobromus heteropodus</u>	Pickle Springs Amphipod	I	U.S.A.
<u>Stygobromus hubbsi</u>	Malheur Cave Amphipod	I	U.S.A.
<u>Stygobromus identatus</u>	Tidewater Stygonectid Amphipod	I	U.S.A.
<u>Stygobromus longipes</u>	Long-legged Cave Amphipod	I	U.S.A.
<u>Stygobromus lucifugus</u>	Rubious Cave Amphipod	Ex	[U.S.A.]
<u>Stygobromus mackenziei</u>	Mackenzie's Cave Amphipod	I	U.S.A.
<u>Stygobromus montanus</u>	Mountain Cave Amphipod	I	U.S.A.
<u>Stygobromus morrisoni</u>	Morrison's Cave Amphipod	I	U.S.A.
<u>Stygobromus mundus</u>	Bath County Cave Amphipod	I	U.S.A.
<u>Stygobromus nortoni</u>	Norton's Cave Amphipod	I	U.S.A.
<u>Stygobromus onondagaensis</u>	Onondaga Cave Amphipod	I	U.S.A.
<u>Stygobromus ozarkensis</u>	Ozark Cave Amphipod	I	U.S.A.
<u>Stygobromus parvus</u>	Minute Cave Amphipod	I	U.S.A.
<u>Stygobromus pecki</u>	Peck's Cave Amphipod	I	U.S.A.
<u>Stygobromus pizzinii</u>	Pizzini's Amphipod	I	U.S.A.
<u>Stygobromus putealis</u>	Wisconsin Well Amphipod	I	U.S.A.
<u>Stygobromus reddelli</u>	Reddell's Cave Amphipod	I	U.S.A.
<u>Stygobromus smithii</u>	Alabama Well Amphipod	I	U.S.A.
<u>Stygobromus spinatus</u>	Spring Cave Amphipod	I	U.S.A.
<u>Stygobromus stellmacki</u>	Stellmack's Cave Amphipod	I	U.S.A.
<u>Stygobromus subtilis</u>	Subtle Cave Amphipod	I	U.S.A.
<u>Stygobromus wengerorum</u>	Wengeror's Cave Amphipod	I	U.S.A.
<u>Spelaeorchestia koloana</u>	Kauai Cave Amphipod	I	Hawaii

Family Orchestiidae

Spelaeorchestia koloana

Order DECAPODA

Family Atyidae

<u>Palaemonias alabamae</u>	Alabama Cave Shrimp	I	U.S.A.
<u>Syncaris pacifica</u>	California Freshwater Shrimp	E	U.S.A.
<u>Typhlatya monae</u>	Mona Cave Shrimp	I	Puerto Rico

Family Palaemonidae

<u>Palaemonetes antrorum</u>	Texas Cave Shrimp	I	U.S.A.
<u>Palaemonetes cummingi</u>	Florida Cave Shrimp	V	U.S.A.

American Lobster	CT	North Atlantic
European Lobster	CT	North-east Atlantic
Norway Lobster	CT	North-east Atlantic

Family Nephropidae

<u>Homarus americanus</u>	American Lobster	CT	North Atlantic
<u>Homarus gammarus</u>	European Lobster	CT	North-east Atlantic
<u>Nephrops norvegicus</u>	Norway Lobster	CT	North-east Atlantic

Family Cambaridae

<u>Cambarus batchi</u>	Big South Fork Crayfish	I	U.S.A.
<u>Cambarus bouchardi</u>	Greensboro Burrowing Crayfish	I	U.S.A.
<u>Cambarus catagius</u>	New River Riffle Crayfish	I	U.S.A.
<u>Cambarus chasmodactylus</u>	Chickamanga Crayfish	I	U.S.A.
<u>Cambarus extraneus</u>	Obey Crayfish	I	U.S.A.
<u>Cambarus obeyensis</u>	Obey Crayfish	I	U.S.A.
<u>Cambarus zophonastes</u>	Louisville Crayfish	E	U.S.A.
<u>Orconectes jeffersoni</u>	Nashville Crayfish	I	U.S.A.
<u>Orconectes shoupi</u>	Nashville Crayfish	E	U.S.A.
<u>Procambarus acherontis</u>	Orlando Cave Crayfish	I	U.S.A.
<u>Procambarus connus</u>	Orlando Cave Crayfish	I	U.S.A.
<u>Procambarus lepiclodactylus</u>	Pee Dee Lotic Crayfish	I	U.S.A.

Family Astacidae

<u>Astacus astacus</u>	Noble Crayfish	V	Europe
<u>Austropotamobius pallipes</u>	White-clawed Crayfish	R	Europe
<u>Austropotamobius torrentium</u>	White-clawed Crayfish	K	Europe
<u>Pacifastacus fortis</u>	Shasta Crayfish	V	U.S.A.
<u>Pacifastacus nigrescens</u>	Shasta Crayfish	Ex?	[U.S.A.]

Madagascar Freshwater Crayfish	I	Madagascar
Giant Freshwater Crayfish	V	Tasmania
	R	West: Australia
	R	West: Australia

Family Parastacidae

<u>Astacoides madagascariensis</u>	Madagascar Freshwater Crayfish	I	Madagascar
<u>Astacopsis gouldi</u>	Giant Freshwater Crayfish	V	Tasmania
<u>Cherax crassimanus</u>		R	West: Australia
<u>Engaewa subcoerulea</u>		R	West: Australia

Family Palinuridae

Jasus edwardsii
Panulirus argus
Panulirus guttatus
Panulirus penicillatus

Rock Lobster
 Spotted Spiny Lobster
 CT New Zealand
 CT Caribbean
 CT Caribbean
 CT Indo-Pacific

Family Coenobitidae

Birgus latro

Coconut Crab
 R Indo-Pacific

Family Hippidae

Emerita emeritus

Sand Crab
 K India, Thailand

Family Pinnotheridae

Parapinnixa affinis

California Bay Pea Crab
 K U.S.A.

Subphylum UNIRAMIA**CLASS INSECTA****Order THYSANURA****Family Machilidae**

Machiloides heteropus
Machiloides perkinsi

Hawaiian Long-palp Bristletail
 perkin's Club-palp Bristletail
 I Hawaii
 I Hawaii

Order EPHEMEROPTERA**Family Siphonuridae**

Acanthometropus pecatonica
Ametetus falsus
Isonychia diversa
Tasmanophlebia lacus-coerulei

Pecatonica River Mayfly
 False Mayfly
 Diverse Mayfly
 Large Blue Lake Mayfly
 Ex [U.S.A.]
 I U.S.A.
 I U.S.A.
 R Australia

Family Baetidae

Heterocleon berneri

Berner's Two-winged Mayfly
 I U.S.A.

Family Oligoneuridae

Homoeoneuria cahabensis
Homoeoneuria dolani

Cahaba Sand-filtering Mayfly
 Blackwater Sand-filtering Mayfly
 I U.S.A.
 I U.S.A.

Family Heptageniidae

Pseudirion meridionalis

Meridion Blackwater Mayfly
 I U.S.A.

Family Behningiidae

Dolania americana

American Sand-burrowing Mayfly
 I U.S.A.

Family Ephemeridae

Ephemera compar
Ephemera triplex
Pantagenia robusta

Colorado Burrowing Mayfly
West Virginia Burrowing Mayfly
Robust Burrowing Mayfly

I U.S.A.
I U.S.A.
Ex [U.S.A.]

Family Ephemerellidae

Ceratella frisoni
Ceratella spiculosa
Ephemerella argo

Frison's Mayfly
Spiculose Mayfly
Argo Mayfly

I U.S.A.
I U.S.A.
I U.S.A.

Family Caenidae

Brachycercus flavus

Yellow Mayfly

I U.S.A.

Order ODONATA

Family Chlorolestidae

Ecchlorolestes nylepytha
Ecchlorolestes peringueyi

E South Africa
E South Africa

Family Lestidae

Austrolestes "m"

E Australia

Family Hemiphlebiidae

Hemiphlebia mirabilis

Small Damselfly

V Australia

Family Megapodagrionidae

Amanipodagrion gilliesi

E Tanzania

Family Protoneuridae

Noeneura aaroni
Nososticta pilbara

R Guatemala, U.S.A.
E Australia

Family Platycnemididae

Metacnemis angusta
Platycnemis mauricana

I South Africa
E Mauritius

Family Coenagrionidae

Aciagrion rarum
Agriocnemis solitaria
Agriocnemis umbargae
Argiagrion leoninium
Ceriagrion mourae

I Angola
E Mauritius
I Cameroon
I Sierra Leone
I Mozambique

<u>Coenagrion freyi</u>						
<u>Coenagrion mercuriale</u>						E Austria, Germany, Switzerland
<u>Enallagma camerunense</u>						E Europe
<u>Enallagma polychromaticum</u>						I Tropical Africa
<u>Enallagma recurvatum</u>						I South Africa
<u>Ischnura gemina</u>						V U.S.A.
<u>Megalagrion adytum</u>						E U.S.A.
<u>Megalagrion amaurodytum fallax</u>						I Hawaii
<u>Megalagrion amaurodytum peles</u>						I Hawaii
<u>Megalagrion amaurodytum waianaenum</u>						I Hawaii
<u>Megalagrion jugorum</u>						I Hawaii
<u>Megalagrion leptodemus</u>						Ex? [Hawaii]
<u>Megalagrion molokaiense</u>						I Hawaii
<u>Megalagrion nesiotis</u>						I Hawaii
<u>Megalagrion nigrohamatum</u>						Ex? [Hawaii]
<u>Megalagrion nigrolineatum</u>						I Hawaii
<u>Megalagrion oahuensis</u>						I Hawaii
<u>Megalagrion oceanicum</u>						I Hawaii
<u>Megalagrion pacificum</u>						I Hawaii
<u>Megalagrion xanthomelas</u>						E Hawaii
<u>Mortonagrion hirosei</u>						E Japan
<u>Teinobasis alluaudi alluaudi</u>						E Seychelles
Family Pseudostigmatidae						
<u>Mecistogaster asticta</u>						E Brazil
Family Calopterygidae						
<u>Calopteryx angustipennis</u>						I U.S.A.
<u>Calopteryx syriaca</u>						E Turkey, Syria, Jordan
Family Epiophlebiidae						
<u>Epiophlebia laidlawi</u>						V India, Nepal
Family Gomphidae						
<u>Antipodogomphus hodgkini</u>						E Australia
<u>Cornigomphus guineensis</u>						I Tropical Africa
<u>Eleuthemis beuttikofera quadrigutta</u>						K Mozambique, Zimbabwe
<u>Erpetogomphus lamprobeltis</u>						K U.S.A.
<u>Gomphus carolinus</u>						I U.S.A.
<u>Gomphus consanguis</u>						R U.S.A.
<u>Gomphus diminutus</u>						R U.S.A.
<u>Gomphus germinatus</u>						R U.S.A.
<u>Gomphus graslini</u>						R France
<u>Frey's Damselfly</u>						
<u>Southern Damselfly</u>						
<u>Barrens Bluet Damselfly</u>						
<u>San Francisco Forktail Damselfly</u>						
<u>Adytum Damselfly</u>						
<u>Fallax Damselfly</u>						
<u>Pele Damselfly</u>						
<u>Waianae Damselfly</u>						
<u>Jugorum Damselfly</u>						
<u>Leptodemas Damselfly</u>						
<u>Molokai Damselfly</u>						
<u>Nesiotis Damselfly</u>						
<u>Nigrohamatum Damselfly</u>						
<u>Blackline Damselfly</u>						
<u>Oahu Damselfly</u>						
<u>Oceanic Damselfly</u>						
<u>Pacific Damselfly</u>						
<u>Orange-black Damselfly</u>						
<u>Retict Himalayan Dragonfly</u>						
<u>Sandhills Clubtail Dragonfly</u>						
<u>Cherokee Clubtail Dragonfly</u>						
<u>Diminutive Clubtail</u>						
<u>Twin-striped Clubtail</u>						

<u>Gomphus hodgesi</u>	V	U.S.A.
<u>Gomphus maxwelli</u>	R	U.S.A.
<u>Gomphus modestus</u>	R	U.S.A.
<u>Gomphus ozakensis</u>	R	U.S.A.
<u>Gomphus parvidens</u>	R	U.S.A.
<u>Gomphus sandrius</u>	I	U.S.A.
<u>Gomphus septima</u>	R	U.S.A.
<u>Gomphus townesi</u>	I	U.S.A.
<u>Hemigomphus "m"</u>	E	Australia
<u>Ictinogomphus dobsoni</u>	E	Australia
<u>Isomma hieroglyphicum</u>	I	Madagascar
<u>Ophiogomphus acuminatus</u>	R	U.S.A.
<u>Ophiogomphus anomalus</u>	R	Eastern North America
<u>Ophiogomphus arizonicus</u>	R	U.S.A.
<u>Ophiogomphus cecilia</u>	E	Europe to Siberia
<u>Ophiogomphus edmundo</u>	Ex?	[U.S.A.]
<u>Ophiogomphus howei</u>	V	U.S.A.
<u>Ophiogomphus incurvatus</u>	R	U.S.A.
<u>Ophiogomphus incurvatus alleghaniensis</u>	I	U.S.A.
<u>Progomphus bellei</u>	R	U.S.A.
<u>Stylurus flavipes</u>	E	North Palearctic
<u>Stylurus potulentus</u>	V	U.S.A.
<u>Stylurus townesi</u>	R	U.S.A.
Family Aeshnidae		
<u>Aeshna merensis</u>	R	Tanzania
<u>Aeshna persephone</u>	R	U.S.A.
<u>Aeshna viridis</u>	E	Europe to Siberia
<u>Anax georgius</u>	I	Tropical Africa
<u>Brachytron pratense</u>	V	Belgium, Germany, U.K.
<u>Indophtebia asiatica</u>	V	India
Family Cordulegasteridae		
<u>Cordulegaster mzymtae</u>	E	Turkey, U.S.S.R.
<u>Cordulegaster sayi</u>	V	U.S.A.
Family Corduliidae		
<u>Antipodochlora braueri</u>	I	New Zealand
<u>Austrocordulia "t"</u>	E	Australia
<u>Libellulosoma minuta</u>	I	Madagascar
<u>Neurocordulia clara</u>	I	U.S.A.
<u>Oxygastra curtisii</u>	E	North Africa, West Europe
<u>Somatochlora brevicincta</u>	R	Canada
Hodge's Clubtail		
Gulf Clubtail		
Tennessee Clubtail Dragonfly		
Septima's Clubtail Dragonfly		
Bronze Clubtail Dragonfly		
Grne Keiljungter		
Edmund's Snaketail Dragonfly		
Howe's Midget Snaketail Dragonfly		
Alleghany Snaketail Dragonfly		
Belle's Sand Variegated Clubtail		
Gomphus à Pattes Jeunes		
Yellow-sided Clubtail		
L'Aeschna Verte		
Florida Spiketail Dragonfly		
Apalachicola Twilight Skimmer Dragonfly		
Orange-spotted Emerald		

<u>Somatochlora calverti</u>	Calverts' Emerald	R	U.S.A.
<u>Somatochlora hineana</u>	Ohio Emerald Dragonfly	E	U.S.A.
<u>Somatochlora incurvata</u>		R	Eastern North America
<u>Somatochlora margarita</u>	Big Thicket Emerald Dragonfly	R	U.S.A.
<u>Somatochlora ozarkensis</u>		R	U.S.A.
<u>Williamsonia lintneri</u>	Banded Bog Skimmer Dragonfly	V	U.S.A.
Family Libellulidae			
<u>Aethiothemis wataliki</u>		K	Congo
<u>Allorhizucha campioni</u>		K	Sierra Leone
<u>Anectothemis apicalis</u>		K	Tropical Africa
<u>Brachythemis fuscopalliata</u>		E	Iraq, Israel, Turkey
<u>Brachythemis liberiensis</u>		I	Guinea Bissau
<u>Congothemis longistyla</u>		K	Zaire
<u>Leucorrhinia albifrons</u>	Leucorrhine à Front Blanc	E	Europe, West Siberia
<u>Leucorrhinia caudalis</u>	Leucorrhine à Large Queue	E	Europe, West Siberia
<u>Libellula angelina</u>		E	Japan
<u>Libellula jerseana</u>		K	U.S.A.
<u>Monardthemis flava</u>		V	Angola, Zambia
<u>Orthetrum "b"</u>		E	Australia
<u>Orthetrum rubens</u>	Purple Chaser	I	Tropical Africa
<u>Palpopleura albifrons</u>		I	Gabon
<u>Sympetrum dilatatum</u>		Ex?	[St Helena]
<u>Trithemis hartwigi</u>		I	Eq. Guinea
<u>Trithemis nigra</u>		I	Sao Tome
<u>Urothemis thomasi</u>		K	Iran
Family Synlestidae			
<u>Phyllolestes ethelae</u>		V	Dominican Republic
Family Macromiidae			
<u>Macromia margarita</u>		R	U.S.A.
<u>Macromia splendens</u>	Shining Macromia Dragonfly	V	France, Portugal, Spain
<u>Macromia wabashensis</u>	Wabash Belted Skimmer Dragonfly	K	U.S.A.
Order BLATTARIA			
Family Blattidae			
<u>Aspiduchus cavernicola</u>	Tuna Cave Roach	I	Puerto Rico
Order MANTODEA			
Family Mantidae			
<u>Apteromantis aptera</u>		E	Spain

Order GRYLLOBLATTARIA

Family Grylloblattidae

Grylloblatta chirurgica

Order ORTHOPTERA

Family Stenopelmatidae

Ammopelmatius kelsoensis

Ammopelmatius muwū

Deinacrida carinata

Deinacrida fallai

Deinacrida heteracantha

Deinacrida rugosa

Deinacrida tibiospina

Stenopelmatius cahuilaensis

Stenopelmatius navajo

Family Rhaphidophoriidae

Daihinibaenetes arizonensis

Macrobaenetes kelsoensis

Macrobaenetes valgum

Pristoceuthophilus sp.

Utabaenetes tanneri

Family Tettigoniidae

Baetica ustulata

Banza nihoa

Belocephalus micanopy

Belocephalus sleighti

Conocephaloides remotus

Idiostatus middlekaufi

Neduba extincta

Neduba longipennis

Saga pedo

Family Gryllotalpidae

Gryllotalpa major

Family Gryllidae

Caconemobius howarthi

Caconemobius schauinslandi

Caconemobius varius

Mount St Helens' Grylloblattid

V

U.S.A.

Kelso Jerusalem Cricket

I

U.S.A.

Port Conception Jerusalem Cricket

I

U.S.A.

Herakopare Island Weta

V

New Zealand

Poor Knights Weta

V

New Zealand

Metapunga

V

New Zealand

Stephens Island Weta

V

New Zealand

Coachella Valley Jerusalem Cricket

I

New Zealand

Navajo Jerusalem Cricket

I

U.S.A.

Arizona Giant Sand Treader Cricket

I

U.S.A.

Kelso Giant Sand Treader Cricket

I

U.S.A.

Coachella Giant Sand Treader Cricket

I

U.S.A.

Samwell Cave Cricket

I

U.S.A.

Tanner's Black Camel Cricket

I

U.S.A.

Nihoa Banza Conehead Katydid

V

Spain

Big Pine Key Conehead Katydid

I

Hawaii

Keys Short-winged Conehead Katydid

I

U.S.A.

Remote Conehead Katydid

I

U.S.A.

Middlekauf's Shieldback Katydid

I

Hawaii

Antioch Dunes Shieldback Katydid

I

U.S.A.]

Santa Monica Shieldback Katydid

Ex

U.S.A.]

Predatory Bush Cricket

I

U.S.A.

Southern Europe

Prairie Mole Cricket

I

U.S.A.

Howarth's Cave Cricket

I

Hawaii

Schauinsland's Bush Cricket

I

Hawaii

Kaumana Cave Cricket

I

Hawaii

<u>Cycloptilum irregularis</u>					
<u>Leptogryllus deceptor</u>		Keys Scaly Cricket	I	U.S.A.	
<u>Oecanthus laricis</u>		Oahu Deceptor Bush Cricket	I	Hawaii	
<u>Thaumatogryllus cavicola</u>		Laricis Tree Cricket	I	U.S.A.	
<u>Thaumatogryllus variegatus</u>		Volcanoes Cave Cricket	I	Hawaii	
		Kauai Thin-footed Bush Cricket	I	Hawaii	
Family Eumastacidae					
<u>Eumorsea pinaleno</u>		Pinaleno Monkey Grasshopper	I	U.S.A.	
<u>Psychomastix deserticola</u>		Desert Monkey Grasshopper	I	U.S.A.	
Family Acrididae					
<u>Acrolophitus pulchellus</u>		Idaho Point-headed Grasshopper	I	U.S.A.	
<u>Appalachia arcana</u>		Michigan Bog Grasshopper	I	U.S.A.	
<u>Chloaeltis aspasma</u>		Siskiyou Chloaeltis Grasshopper	I	U.S.A.	
<u>Spharagemon superbum</u>			I	U.S.A.	
Family Tetrigidae					
<u>Tetrix sierrana</u>		Sierra Pygmy Grasshopper	I	U.S.A.	
<u>Tettigidea empedonepia</u>		Torreya Pygmy Grasshopper	I	U.S.A.	
Order PHASMATOPTERA					
Family Phasmatidae					
<u>Dryococelus australis</u>		Lord Howe Island Stick-insect	EX	[Lord Howe I.]	
Order DERMAPTERA					
Family Labiduridae					
<u>Labidura herculeana</u>		St Helena Earwig	E	St Helena	
Order PLECOPTERA					
Family Nemouridae					
<u>Lednia tumana</u>		Meltwater Stonefly	I	U.S.A.	
<u>Nemours wahkeena</u>		Wahkeena Falls Flightless Stonefly	I	U.S.A.	
Family Capniidae					
<u>Capnia lacustra</u>		Lake Tahoe Benthic Stonefly	I	U.S.A.	
Family Leuctridae					
<u>Leuctra szczytkoi</u>		Schoolhouse Springs Stonefly	I	U.S.A.	
Family Taeniopterygidae					
<u>Taeniopteryx starki</u>		Leon River Stonefly	I	U.S.A.	

Family Perlidae

Beloneuria jamesae
Beloneuria georgiana
Hansonoperla appalachia

Cheaha Stonefly
Georgia Stonefly
Hanson's Appalachian Stonefly

I U.S.A.
I U.S.A.
I U.S.A.

Family Chloroperlidae

Alloperla roberti

Robert's Stonefly

EX [U.S.A.]

Family Peltoperlidae

Soliperla fenderi

Fender's Stonefly

I U.S.A.

Family Eustheniidae

Eusthenia nothofagi

Otway Stonefly

E Australia

Family Gripopterygidae

Leptoperla cacuminis
Riekoperla darlingtoni

Mount Kosciusko Wingless Stonefly
Mount Donna Buang Wingless Stonefly

R Australia
R Australia

Order ZORAPTERA

Family Zorotypidae

Zorotypus swezeyi

Swezey's Zoroapteran

I Hawaii

Order ANOPLURA

Family Haematopinidae

Haematopinus oliveri

Pygmy Hog Sucking Louse

E India

Order HEMIPTERA

Family Belostomatidae

Belostoma saratogae

Saratoga Springs Bug

I U.S.A.

Family Naucoridae

Ambrysus amargosus
Pelocoris shoshone

Ash Meadows Bug
Amargosa Bug

E U.S.A.
I U.S.A.

Family Mesoveliidae

Cavaticovelia aaa

Aaa Water Treader Bug

I U.S.A.

Family Macroveliidae

Oravelia pege

Dry Creek Cliff Strider Bug

I U.S.A.

Family Miridae

- Cyrtopeltis phyllostegiae
- Kalania hawaiiensis
- Kalania sp.

- Phyllostegian Leaf Bug
- Lanai Leaf Bug
- Oahu Leaf Bug

I Hawaii
I Hawaii
I Hawaii

Family Reduviidae

- Epicorisis pulchrus
- Stacella smithi
- Nesidiolestes ana
- Nesidiolestes insularis
- Nesidiolestes roberti
- Nesidiolestes selium

- Pulchrus Thread Bug
- Smith's Reduviid Bug
- Ana Wingless Thread Bug
- Mount Tantalus Wingless Thread Bug
- Robert's Wingless Thread Bug
- Selium Wingless Thread Bug

I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii

Family Lygaeidae

- Metrarga obscura
- Neseis alternatus
- Neseis haleakalae
- Nesocryptias villosa
- Nysius frigateensis
- Nysius neckerensis
- Nysius nihoae
- Nysius sulfusus
- Oceanaiides bryani
- Oceanaiides perkinsi
- Oceanaiides rugosiceps

- Mauna Loa Seed Bug
- Kauai Band-legged Seed Bug
- Mount Haleakala Seed Bug
- Villosan Frigateless Seed Bug
- French Frigate Shoal Seed Bug
- Necker Goosefoot Seed Bug
- Nihoae Seed Bug
- Necker Bunchgrass Seed Bug
- Bryan's Seed Bug
- Perkin's Seed Bug
- Rough-headed Seed Bug

I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii

Family Rhopalidae

- Ithamar annectans
- Ithamar hawaiiense

- Annectans Bug
- Hawaiian bug

I Hawaii
I Hawaii

Order HOMOPTERA

Family Cixiidae

- Oliarus consimilis
- Oliarus discrepans
- Oliarus lanaiensis
- Oliarus lihue
- Oliarus myoporicola

- Kauai Particoloured Planthopper
- Wild Cotton Planthopper
- Lanai Planthopper
- Lihue Planthopper
- Barber's Point Planthopper

I Hawaii
I Hawaii
I Hawaii
I Hawaii
I Hawaii

Family Delphacidae

- Nesorestias filicicola
- Nesosydne acuta
- Nesosydne bridwelli

- Mt. Tantalus Shortwing Fern Planthopper
- Iao Valley Planthopper
- Bridwell's Planthopper

I Hawaii
I Hawaii
I Hawaii

<u>Nesosydne cyrtandrae</u>					
<u>Nesosydne cyrtandricola</u>					
<u>Nesosydne kuschei</u>					
<u>Nesosydne leahi</u>					
<u>Nesosydne longipes</u>					
<u>Nesosydne sulcata</u>					
Family Cicadidae					
<u>Magiicada cassini</u>					
<u>Magiicada septendecim</u>					
<u>Magiicada septendecula</u>					
Family Cicadellidae					
<u>Felexamia rubranura</u>					
Family Pseudococcidae					
<u>Claviccoccus erinaceus</u>					
<u>Phyllococcus oahuensis</u>					
Order NEUROPTERA					
Family Ithonidae					
<u>Oliarces clara</u>					
Family Mantispidae					
<u>Mantispa styriaca</u>					
Family Hemerobiidae					
<u>Nesothauma halakalae</u>					
<u>Pseudopsectra cookeorum</u>					
<u>Pseudopsectra lobipennis</u>					
<u>Pseudopsectra swezeyi</u>					
<u>Pseudopsectra usingeri</u>					
Family Ascalaphidae					
<u>Libelloides libelluloides</u>					
<u>Libelloides macaronius</u>					
Family Myrmeleontidae					
<u>Acanthaclisis occitanica</u>					
<u>Dendroleon pantherinus</u>					
<u>Distoleon tetragrammicus</u>					
<u>Eidoleon perjurus</u>					
<u>Myrmeleon formicarius</u>					
<u>Nahiku Planthopper</u>					
<u>Glenwood Planthopper</u>					
<u>Kusche's Planthopper</u>					
<u>Diamond Head Planthopper</u>					
<u>Long-footed Planthopper</u>					
<u>Keanae Planthopper</u>					
<u>Cassini Periodical Cicada</u>					
<u>Decim Periodical Cicada</u>					
<u>Decula Periodical Cicada</u>					
<u>Red-veined Prairie Leafhopper</u>					
<u>Haleakala Spongillafly</u>					
<u>Cooke's Spongillafly</u>					
<u>Lobe-wing Spongillafly</u>					
<u>Swezey's Spongillafly</u>					
<u>Usinger's Spongillafly</u>					
<u>Molokai Antlion</u>					

Order COLEOPTERA

Family Carabidae

Agonum belleri
Aplothorax burchelli
Calosoma sycophanta
Carabus intricatus
Carabus olympiae
Elaphrus viridis
Mormolyce phyllodes
Sphaeroderus schauumi shenandoah

Beller's Ground Beetle I U.S.A.
 Puppenrauber E St Helena
 Blue Ground Beetle V Europe, North Africa, U.S.S.R.
 Delta Green Ground Beetle V Europe
 Ghost Walker Beetle E Italy
 Schaum's Blue Ridge Ground Beetle V U.S.A.
 I Malaysia
 I U.S.A.

Family Cicindelidae

Cicindela arenicola
Cicindela cazieri
Cicindela chlorocephala smythi
Cicindela columbica
Cicindela dorsalis dorsalis
Cicindela latesignata obliviosa
Cicindela limbata albissima
Cicindela marginata
Cicindela marginipennis
Cicindela nevadica olmosa
Cicindela nigrocoerulea subtropica
Cicindela obsoleta neojuvnalis
Cicindela puritana
Cicindela tranquebarica viridissima

Idaho Dunes Tiger Beetle I U.S.A.
 Cazier's Tiger Beetle I U.S.A.
 Smyth's Tiger Beetle I U.S.A.
 Columbia River Tiger Beetle E U.S.A.
 North-eastern Beach Tiger Beetle I U.S.A.
 Oblivious Tiger Beetle I U.S.A.
 Coral Pink Dunes Tiger Beetle I U.S.A.
 Tiger Beetle I U.S.A.
 Cobblestone Tiger Beetle I U.S.A.
 Los Olmos Tiger Beetle I U.S.A.
 Subtropical Blue-black Tiger Beetle I U.S.A.
 Neojuvnal Tiger Beetle I U.S.A.
 Puritan Tiger Beetle I U.S.A.
 Greenest Tiger Beetle I U.S.A.

Family Haliplidae

Brychius hungerfordi
Haliphus nitens

Hungerford's Crawling Water Beetle I U.S.A.
 Disjunct Crawling Water Beetle I U.S.A.

Family Dytiscidae

Agabus rumpfi
Desmopachria conchramis
Dytiscus latissimus
Graphoderus bilineatus
Haideoporus texanus
Hydroporus elusivus
Hydroporus folkertsi
Hydroporus hirsutus
Hydroporus leechi
Hydroporus simplex

Death Valley Diving Beetle I U.S.A.
 Fig Seed Diving Beetle I U.S.A.
 Texas Cave Beetle E North & Central Europe, Siberia
 Elusive Diving Beetle E Central & West Europe
 Folkert's Diving Beetle I U.S.A.
 Woolly Diving Beetle I U.S.A.
 Leech's Skyline Diving Beetle I U.S.A.
 Simple Diving Beetle I U.S.A.

Hydroponus spangleri I U.S.A.
Hydroponus sulphurinus I U.S.A.
Hydroponus utahensis I U.S.A.
Hygrotus artus Ex? [U.S.A.]
Hygrotus curvipes I U.S.A.
Hygrotus diversipes I U.S.A.
Hygrotus fontinalis I U.S.A.
Hygrotus sylvanus I U.S.A.

Family Gyrinidae

Spanglerogyrus albiventris I U.S.A.

Family Hydraenidae

Gymnocthebius maureenae I U.S.A.
Hydraena maureenae I U.S.A.
Limnebius aridus I U.S.A.
Limnebius texanus I U.S.A.
Limnebius utahensis I U.S.A.
Ochthebius crassalus I U.S.A.
Ochthebius putnamensis I U.S.A.
Ochthebius reticulatus I U.S.A.

Family Leioldidae

Glacicavicola bathysciodes I U.S.A.

Family Silphidae

Microphorus americanus E Eastern North America

Family Hydrophilidae

Chaetanthria leechi I U.S.A.
Chaetanthria utahensis I U.S.A.
Cymbiodyta arizonica I U.S.A.
Hydrochara rickseckeri I U.S.A.
Paracymus seclusus I U.S.A.

Family Lucanidae

Apterocyclus honoluluensis E Hawaii
Dorcus auriculatus V New Zealand
Dorcus ithaginis V New Zealand

Family Trogidae

Irox howelli V U.S.A.

Spangler's Diving Beetle
Sulphur Springs Diving Beetle
Utah Diving Beetle
Mono Lake Diving Beetle
Curved-foot Diving Beetle
Narrow-foot Diving Beetle
Travertine Band-thigh Diving Beetle
Sylvan Diving Beetle

Red Hills Unique Whirligig Beetle

Maureen's Minute Moss Beetle
Maureen's Moss Beetle
Animas Minute Moss Beetle
Texas Minute Moss Beetle
Utah Minute Moss Beetle
Wing-shoulder Minute Moss Beetle
Indiana Minute Moss Beetle
Wilbur Springs Minute Moss Beetle

Blind Cave Beetle

American Burying Beetle

Leech's Water Scavenger Beetle
Utah Water Scavenger Beetle
Arizona Water Scavenger Beetle
Ricksecker's Water Scavenger Beetle
Seclusive Water Scavenger Beetle

Kauai Flightless Stag Beetle

Caracara Commensal Scarab Beetle

Family Geotrupidae

Typphaeus hiostius

Family Scarabaeidae

Aegialia concinnaAegialia crescentaAegialia haroyiAegialia magnificaAnomala exiguaAnomala eximiaAnomala tibialisAphodius fordiAphodius troglodytesAtaenius superficialisAtaenius woodruffiCopris gopheriCyclocephala miamiensisDynastes herculesDynastes hercules glaseriDynastes hercules herculesDynastes hercules reidiGlaresis arenataGronocarus multispinosusLichnanthe albopilosaLichnanthe ursinaMycotrupes pedesterOnthophagus furacatusOnthophagus polyphemiOryctes chevrolatiOsmoderma eremitaPelitotrupes youngiPolylamina pubescensPolyphylla anteroniveaPolyphylla avittataPolyphylla barbataPolyphylla nubilaProdontria lewisiPseudocotalpa giulianiiSerica frostiSerica tantulaTrigonopelastes floridana

V Sardinia

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

V U.S.A.

E U.S.A.

I U.S.A.

I U.S.A.

V Caribbean & Northern South America

K Trinidad & Tobago

V Dominica, Guadeloupe

V Martinique, St Lucia

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

V Austria

I U.S.A.

K Reunion

E Europe

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

I U.S.A.

V New Zealand

I U.S.A.

I U.S.A.

I U.S.A.

R/I U.S.A.

Ciervo Scarab Beetle

Crescent Dune Scarab Beetle

Hardy's Scarab Beetle

Large Scarab Beetle

Exiguous Scarab Beetle

Archbold Scarab Beetle

Tibial Scarab Beetle

Ford's Beetle

Tortoise Commensal Scarab Beetle

Big Pine Key Dung Beetle

Woodruff's Dung Beetle

Tortoise Commensal Scarab Beetle

Miami Roundhead Scarab Beetle

Hercules Beetle

Hercules Beetle

Hercules Beetle

Hercules Beetle

Kelso Dune Scarab Beetle

Spiny Florida Sandhill Scarab Beetle

White Sand Bear Scarab Beetle

Pacific Sand Bear Scarab Beetle

Scrub Island Burrowing Scarab Beetle

Tortoise Commensal Scarab Beetle

Hermit Beetle

Ocala Burrowing Scarab Beetle

Woody Gulf Dune Scarab Beetle

Saline Valley Snow-front Scarab

Spotted Warner Valley Dunes Scarab

Barbate Scarab Beetle

Atascodera Scarab Beetle

Cromwell Chafer

Giuliani's Dune Scarab Beetle

Frost's Spring Scarab Beetle

Tantula Scarab Beetle

Scrub Palmetto Flower Scarab Beetle

Family Buprestidae

Buprestis splendens

Goldstreifiger I Europe

Family Elmidae

Atractelmis wawona

Wawona Riffle Beetle I U.S.A.

Cylloepus parkeri

Parker's Riffle Beetle I U.S.A.

Dubiraphia brunnescens

Brownish Riffle Beetle I U.S.A.

Dubiraphia giulianii

Giuliani's Riffle Beetle I U.S.A.

Dubiraphia parva

Little Riffle Beetle I U.S.A.

Dubiraphia robusta

Robust Riffle Beetle I U.S.A.

Heterelmis stephani

Stephan's Riffle Beetle I U.S.A.

Huleechius marroni carolus

Marron's San Carlos Riffle Beetle I U.S.A.

Microcylloepus browni

Brown's Riffle Beetle I U.S.A.

Optioservus browni

Brown's Riffle Beetle I U.S.A.

Optioservus canus

Pinnacles Riffle Beetle I U.S.A.

Optioservus phaeus

Scott Riffle Beetle I U.S.A.

Stenelmis calida calida

Devil's Hole Warm Spring Riffle Beetle I U.S.A.

Stenelmis calida moapa

Moapa Warm Springs Riffle Beetle I U.S.A.

Stenelmis douglasensis

Douglas Riffle Beetle I U.S.A.

Stenelmis gammoni

Gammon's Riffle Beetle I U.S.A.

Zaitzeva thermae

Warm Spring Riffle Beetle I U.S.A.

Family Psephenidae

Acneus beeri

Beer's False Water Penny Beetle I U.S.A.

Acneus burnelli

Burnell's False Water Penny Beetle I U.S.A.

Alabamaubria starki

Stark's False Water Penny Beetle I U.S.A.

Dicranopsetaphus variegatus

Variiegated False Water Penny Beetle I U.S.A.

Psephenus arizonensis

Arizona Water Penny Beetle I U.S.A.

Psephenus montanus

White Mountains Water Penny Beetle I U.S.A.

Family Elateridae

Amychus candezei

V Chatham Is, New Zealand

Amychus granulatus

V New Zealand

Eanus hatchi

I Canada, U.S.A.

Eopenthes (17 species)

E Hawaii

Itodacnus (whole genus)

I Hawaii

Family Eucnemidae

Paleoxenus dohmi

I U.S.A.

Dohrn's Elegant Eucnemid Beetle

Family Lampyridae

Micronaspis floridana
Photuris brunnipennis floridana

Florida Intertidal Firefly
 Everglades Browing Firefly

I U.S.A.
 I U.S.A.

Family Anobiidae

Holcobius pikoensis

Piko Anobiid Beetle

I Hawaii

Family Cucujidae

Cucujus cinnabarinus

Scharlachkfer

E Northern & Central Europe

Family Tenebrionidae

Coelus globosus
Coelus gracilis
Polposipus herculeanus

Globose Dune Beetle
 San Joaquin Dune Beetle
 Frigate Island Giant Tenebrionid Beetle

I Mexico, U.S.A.
 I U.S.A.
 R Seychelles

Family Meloidae

Lytta hoppingi
Lytta inseperata
Lytta mirifica
Lytta moesta
Lytta molesta
Lytta morrisoni

Hopping's Blister Beetle
 Mojave Desert Blister Beetle
 Anthony Blister Beetle
 Moestan Blister Beetle
 Molestan Blister Beetle
 Morrison's Blister Beetle

I U.S.A.
 I U.S.A.
 I Mexico, U.S.A.
 I U.S.A.
 I U.S.A.
 I U.S.A.

Family Anthicidae

Anthicus antiochensis
Anthicus sacramento

Antioch Dunes Beetle
 Sacramento Beetle

I U.S.A.
 I U.S.A.

Family Cerambycidae

Aeschrithmysus dubautianus
Aeschrithmysus swezeyi
Aeschrithmysus terryi
Cerambyx cerdo
Crossidius mojavensis
Desmocerus californicus dimorphus
Dryobius sexnotatus
Macrodonatia cervicornis
Mormis funereus
Necydalis rudei
Nesithmysus bridwelli
Nesithmysus frobesi
Nesithmysus haasi
Nesithmysus swezeyi

Cerambyx Longicorn
 Mojave Rabbitbrush Longhorn Beetle
 Valley Elderberry Longhorn Beetle
 Six-banded Longhorn Beetle

E Hawaii
 E Hawaii
 E Hawaii
 E Central & Northern Europe
 E U.S.A.
 V U.S.A.
 I U.S.A.
 K Brazil, Peru
 E Central Europe, U.S.S.R.

Rude's Longhorn Beetle

I Hawaii
 E Hawaii
 E Hawaii
 E Hawaii
 E Hawaii

Plagithmysus (49 species)
Rosalia alpina
Xylotoles costatus

Family Chrysomelidae

Donacia idola

Family Aglycyderidae

Proterhinus (72 species)

Family Curculionidae

Anagotus fairburni
Anagotus turbotti
Deinocossonus nesiotos
Dryophthorus distinguendus
Dryotribus mimeticus
Gynsticheus rotundicollis
Gymnopholus lichenifer
Hadramphus spinipennis
Hadramphus stilbocarpae
Hadramphus tuberculatus
Heteramphus filicum
Heterexis seticostatus
Lyperobius huttoni
Macrancylus linearis
Megacolabus sculpturatus
Microcryptorhynchus orientissimus
Miloderes nelsoni
Miloderes rulienei
Nesotocus giffordi
Nesotocus kauaiensis
Nesotocus munroi
Nothaldonis peaci
Oclandius laeviusculus
Odemasylus laysanensis
Onchobarus langei
Oodemas (whole genus)
Pentarthrum blackburni
Pentarthrum obscura
Pentarthrum pritchardias
Rhyncogonus hendersoni
Rhyncogonus (22 species)
Stenotrupis pritchardiae

E Hawaii
E Central & Northern Europe
Ex [Chatham Is]

I U.S.A.

E Hawaii

V New Zealand
V New Zealand
E Hawaii
Ex [Hawaii]
Ex [Hawaii]
I U.S.A.

V Papua New Guinea
V Chatham Is

V New Zealand
V New Zealand
E Hawaii

V New Zealand
V New Zealand
Ex [Hawaii]

V New Zealand
R Henderson I.

I U.S.A.

I U.S.A.

I Hawaii

I Hawaii

I Hawaii

E New Zealand

V New Zealand

Ex [Hawaii]

I U.S.A.

I Hawaii

Ex? [Hawaii]

I Hawaii

E Hawaii

K Henderson I.

E Hawaii

I Hawaii

Rosalia Longicorn

Bog Idol Leaf Beetle

Hawaiian Proterhinus Beetles

Flax Weevil
Turbott's Weevil
Oahu Nesiotos Weevil

Antioch Dune Weevil
Lichen Weevil

Speargrass Weevil

Nelson's Weevil
Rulien's Weevil
Gifford's Weevil
Kauai Weevil
Munro's Weevil

Lange's El Segundo Dune Weevil
Windward Chain Weevils
Blackburn's Weevil
Obscure Weevil

Hawaiian Snout Beetles
Nihoa Weevil

<u>Trigonoscuta brunnotesselata</u>					
<u>Trigonoscuta dorothea dorothea</u>		Brown-tassel Weevil		I	U.S.A.
<u>Trigonoscuta doyeri</u>		Dorothy's El Segundo Dune Weevil		I	U.S.A.
<u>Trigonoscuta rossi</u>		Doyen's Dune Weevil		E/V	U.S.A.
<u>Trigonoscuta yorbalindae</u>		Fort Ross Weevil		Ex?	[U.S.A.]
<u>Unas piceus</u>		Yorba Linda Weevil		Ex?	[U.S.A.]
				V	New Zealand
Order DIPTERA					
Family Psychodidae					
<u>Nemopalpus nearcticus</u>		Sugarfoot Moth Fly		I	U.S.A.
Family Blephariceridae					
<u>Edwardsina gigantea</u>		Giant Torrent Midge		E	Australia
<u>Edwardsina tasmaniensis</u>		Tasmanian Torrent Midge		E	Australia
Family Tabanidae					
<u>Apatalestea rossi</u>		Ross's Apatalestes Tabanid Fly		I	U.S.A.
<u>Asaphomyia floridensis</u>		Florida Asaphomyian Tabanid Fly		I	U.S.A.
<u>Asaphomyia texanus</u>		Texas Asaphomyian Tabanid Fly		I	U.S.A.
<u>Brennania belkini</u>		Belkin's Dune Tabanid Fly		E	Mexico
<u>Merycomyia brunnea</u>		Brown Merycomyian Tabanid Fly		I	U.S.A.
<u>Stonemyia volutina</u>		Volutine Stoneyian Tabanid Fly		Ex	[U.S.A.]
Family Acroceridae					
<u>Eulonchus marialiciae</u>		Mary Alice's Small-headed Fly		I	U.S.A.
Family Asilidae					
<u>Cophura hurdi</u>		Antioch Robberfly		I	U.S.A.
<u>Efferia antiochi</u>		Antioch Robberfly		I	U.S.A.
<u>Metopogon hurdi</u>		Hurd's Robberfly		I	U.S.A.
Family Apiocertidae					
<u>Raphiomydas triochilus</u>		Valley Mydas Fly		I	U.S.A.
Family Empididae					
<u>Chersodromia hawaiiensis</u>		Hawaiian Dance Fly		I	Hawaii
Family Dolichopodidae					
<u>Campicnemus mirabilis</u>				Ex	[Hawaii]
Family Syrphidae					
<u>Mixogaster delongi</u>		DeLong's Flower Fly		I	U.S.A.

Family Asteliidae
Bryania bipunctata

Nihoa Two-spotted Asterid Fly

I Hawaii

Family Drosophilidae
Drosophila lanaiensis

Ex [Hawaii]

Family Ephydriidae
Paracoenia calida

I U.S.A.

Wilber Springs Shore Fly

Order TRICHOPTERA

Family Rhyacophilidae

Rhyacophila alexandra
Rhyacophila amabilis
Rhyacophila colonus
Rhyacophila fenderi
Rhyacophila haddocki
Rhyacophila lineata
Rhyacophila mosana
Rhyacophila spinata
Rhyacophila unipunctata

I U.S.A.
Ex [U.S.A.]
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.

Alexander's Caddisfly
Castle Lake Caddisfly
Obrien Caddisfly
Fender's Caddisfly
Haddock's Caddisfly
Castle Crags Caddisfly
Bilobed Caddisfly
Spiny Caddisfly
One-spot Caddisfly

Family Glossosomatidae

Agapetus artesus
Agapetus denningi
Agapetus medicus
Protoptila arca

I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.

Artesian Caddisfly
Denning's Caddisfly
Arkansas Caddisfly
San Marcos Caddisfly

Family Hydrotilidae

Hydroptila decia
Neotrichia kitae
Ochrotrichia alsea
Ochrotrichia contorta
Ochrotrichia phenosa
Ochrotrichia provosti
Ochrotrichia vertreesi
Oxyethira florida

I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.
I U.S.A.

Knoxville Micro Caddisfly
Kite's Micro Caddisfly
Alsea Micro Caddisfly
Contorted Micro Caddisfly
Deschutes Micro Caddisfly
Provost's Micro Caddisfly
Vertree's Micro Caddisfly
Florida Micro Caddisfly

Family Philopotamidae

Apatania tavalala
Cryptochia excella
Cryptochia neosa

I U.S.A.
I U.S.A.
I U.S.A.

Cascades Caddisfly
Kings Canyon Caddisfly
Blue Mountains Caddisfly

Dolophilodes oregona
Eclisomyia bilera
Farula davisi
Farula jewetti
Farula reaperi
Glyphopsyche missouri
Limnephilus alconura
Limnephilus atercus
Neothraupis andersoni
Oligophlebodes mostbento
Philoscia oron
Triaenodes tridonata

Oregon Caddisfly I U.S.A.
 King's Creek Caddisfly I U.S.A.
 Green Springs Mountain Caddisfly I U.S.A.
 Mount Hood Caddisfly I U.S.A.
 Tombstone Prairie Caddisfly I U.S.A.
 Missouri Caddisfly I U.S.A.
 Klamath Caddisfly I U.S.A.
 Fort Dick Caddisfly I U.S.A.
 Colombian Gorge Caddisfly I U.S.A.
 Tombstone Prairie Oligophlebodes I U.S.A.
 Clatsop Caddisfly I U.S.A.
 Three-tooth Caddisfly Ex [U.S.A.]

Family Lepidostomatidae

Lepidostoma fischeri
Lepidostoma goedeni

Fischer's Caddisfly I U.S.A.
 Goeden's Caddisfly I U.S.A.

Family Sericostomatidae

Agarodes ziczac

Zigzag Blackwater Caddisfly I U.S.A.

Family Odontoceridae

Psilotreta hansonii

I U.S.A.

Family Leptoceridae

Ceraclea floridana
Ceraclea vertreesi
Oecetis parva
Triaenodes phalacris

Florida Longhorn Caddisfly I U.S.A.
 Vertree's Caddisfly I U.S.A.
 Little Longhorn Caddisfly I U.S.A.
 Athens Caddisfly Ex [U.S.A.]

Order LEPIDOPTERA

Family Hepialidae

Leto venus
Zelotypia stacyi

Silver Spotted Ghost Moth V South Africa
 Bent Wing Swift Moth V Australia

Family Nepticulidae

Ectodemia castaneae
Ectodemia phleophaga

American Chestnut Moth Ex? [U.S.A.]
 Phleophagan Chestnut Moth Ex? [U.S.A.]

Family Tischeriidae

Tischeria perplexa

Chestnut Clearwing Moth Ex? [U.S.A.]

Family Gracillariidae

Petrochroa neckerensis
Phildonia wilkesiella

Necker Leaf-miner Moth

I Hawaii
E Hawaii

Family Coleophoridae

Coleophora leucochrysell

Ex? [U.S.A.]

Family Gelechiidae

Kiwaia jeanae

V New Zealand

Family Carposinidae

Heterocrossa viridis

Green Carposinid Moth

I Hawaii

Family Argyresthiidae

Argyresthia castaneella

Chestnut Ermine Moth

Ex? [U.S.A.]

Family Sesiidae

Synanthedon castaneae

Chestnut Clearwing Moth

I U.S.A.

Family Tortricidae

Grapholitha edwardsiana
Spheterista oheoheana
Spheterista pterotropiana
Spheterista reynoldiana

San Francisco Tree Lupine
Ohe Ohe Leaf-roller Moth
Green-banded Ohe Ohe Leaf-roller Moth
Wallupe Leaf-roller Moth

R U.S.A.
I Hawaii
I Hawaii
I Hawaii

Family Cochyliidae

Carolella busckana

Busk's Gall Moth

I U.S.A.

Family Hesperiidae

Carterocephalus palaemon
Dalla octomaculata
Epargyreus antaeus
Epargyreus spana
Euscheman rafflesia
Hesperia dacotae
Hesperia pawnee montana
Kedestes barerae bunta
Kedestes chaca
Metisella syrinx
Panoquina errans
Panoquina panoquinooides errans
Problema buienta

Chequered Skipper
Eight Spotted Skipper

Skipper
Dakota Skipper
Pawnee Montane Skipper
Barber's Ranger

Bamboo Sylph
Wandering Skipper
Salt Marsh Skipper
Rare Skipper

Busk's Gall Moth

Chequered Skipper
Eight Spotted Skipper

Skipper
Dakota Skipper
Pawnee Montane Skipper
Barber's Ranger

Bamboo Sylph
Wandering Skipper
Salt Marsh Skipper
Rare Skipper

V Central & North Europe
R Costa Rica, Panama
R Jamaica
R Dominican Republic
K Australia
E U.S.A., Canada
E U.S.A.
V South Africa
V South Africa
V South Africa
V U.S.A., Mexico
V U.S.A., Mexico
I U.S.A.

<u>Pseudophaea eunus</u>			I	U.S.A.
<u>Syrichthys cribrillum</u>	Wandering Skipper		I	Romania, Southern U.S.S.R.
<u>Syrichthys tessellum</u>	Spiny Skipper		K	Balkans, Southern U.S.S.R., Iran
<u>Tsitana dicksoni</u>	Tessellated Skipper		V	South Africa
	Dickson's Sylph			
Family Megathymidae				
<u>Stallingsia maculosus</u>	Maculated Manfreda Skipper		I	U.S.A.
Family Papilionidae				
<u>Atrophaneura atropos</u>			I	Philippines
<u>Atrophaneura jophon</u>	Sri Lankan Rose		V	Sri Lanka
<u>Atrophaneura luchti</u>			R	Java
<u>Atrophaneura palu</u>			K	Sulawesi
<u>Atrophaneura schadenbergi</u>			V	Philippines
<u>Baronia brevicornis</u>	Short-horned Baronia		R	Mexico
<u>Battus zetides</u>	Zetides Swallowtail		V	Hispaniola
<u>Bhutanitis ludlowi</u>	Ludlow's Bhutan Swallowtail		K	Bhutan
<u>Bhutanitis mansfieldi</u>	Mansfield's Three-tailed Swallowtail		R	China
<u>Bhutanitis thaidina</u>	Chinese Three-tailed Swallowtail		R	China
<u>Eurytides iphitas</u>	Yellow Kite Swallowtail		V	Brazil
<u>Eurytides lysithous harrisianus</u>	Harris' Mimic Swallowtail		E	Brazil
<u>Eurytides marcellinus</u>	Jamaican Kite		V	Jamaica
<u>Graphium alebion chungianus</u>	Sri Lankan Five-bar Swordtail		R	Taiwan
<u>Graphium antiphates ceylonicus</u>			V	Sri Lanka
<u>Graphium aurivilliusi</u>			K	Zaire
<u>Graphium epaminondas</u>	Andamans Swordtail		K	Andaman Is
<u>Graphium idaeoides</u>			R	Philippines
<u>Graphium levassori</u>			V	Comoro Is
<u>Graphium meeki</u>	Meek's Graphium		R	Bougainville, Solomon Is
<u>Graphium megaera</u>			I	Philippines
<u>Graphium mendana</u>			R	Bougainville, Solomon Is
<u>Graphium procles</u>			I	Sabah
<u>Graphium sandawanum</u>			V	Philippines
<u>Graphium stresemanni</u>			R	Moluccas
<u>Luehdorfia chinensis</u>	Chinese Luehdorfia		K	China
<u>Luehdorfia japonica</u>	Japanese Luehdorfia		I	Japan, Taiwan
<u>Ornithoptera aesacus</u>			I	Moluccas
<u>Ornithoptera alexandrae</u>	Queen Alexandra's Birdwing		E	Papua New Guinea
<u>Ornithoptera chimaera</u>	Chimaera Birdwing		I	New Guinea
<u>Ornithoptera croesus</u>			V	Moluccas
<u>Ornithoptera meridionalis</u>			V	New Guinea
<u>Ornithoptera paradisea</u>	Paradise Birdwing		I	New Guinea

Ornithoptera rothschildi
Ornithoptera tithonus
Papilio acheron
Papilio antimachus
Papilio aristodemus ponceanus
Papilio aristophontes
Papilio aristot
Papilio benguetanus
Papilio caiguanabus
Papilio carolinensis
Papilio chikae
Papilio desmondi teita
Papilio esperanza
Papilio garleppi
Papilio grosesmithi
Papilio himeros
Papilio homerus
Papilio hospiton
Papilio jordani
Papilio leucotaenia
Papilio mangoura
Papilio manlius
Papilio maraho
Papilio maroni
Papilio moernerii
Papilio morondavana
Papilio neuwoegeni
Papilio osmana
Papilio phorbanta
Papilio phorbanta nana
Papilio sjoestedti
Papilio toboroi
Papilio weymeri
Parides ascanius
Parides burchellanus
Parides coelus
Parides hahneli
Parides klagesi
Parides pizarro
Parides steinbachi
Parnassius apollo
Parnassius apollo vinningensis
Parnassius autocrator

Rothschild's Birdwing
 African Giant Swallowtail
 Schaus' Swallowtail
 Scarce Haitian Swallowtail
 Poey's Black Swallowtail
 Taita Blue-banded Papilio
 Homerus Swallowtail
 Corsican Swallowtail
 Jordan's Swallowtail
 Cream-banded Swallowtail
 Madagascan Emperor Swallowtail
 Papillon La Pature
 Kilimanjaro Swallowtail
 Fluminense Swallowtail
 Hahnel's Amazonian Swallowtail
 Apollo

Irian Jaya
 Irian Jaya
 Sabah, Sarawak
 Central & West Africa
 U.S.A.
 Comoro Is
 Hispaniola
 Philippines
 Cuba
 Philippines
 Philippines
 Kenya
 Mexico
 South America
 Madagascar
 Argentina, Brazil
 Jamaica
 Corsica, Sardinia
 Sulawesi
 Burundi, Rwanda, Uganda
 Madagascar
 Mauritius
 Taiwan
 French Guiana
 Bismarck Arch.
 Madagascar
 Lesser Sunda Is
 Philippines
 Reunion
 [Seychelles]
 Tanzania
 Bougainville, Solomon Is
 Bismarck Arch.
 Brazil
 Brazil
 French Guiana
 Brazil
 Venezuela
 Brazil
 Bolivia
 Europe & U.S.S.R. to China
 F.R.G.
 R Afghanistan, Tadzhikistan

Parnassius clodius shepardii
Parnassius clodius strohbeeni
Teinopalpus aureus
Teinopalpus imperialis
Troides aeacus kaguva
Troides andromache
Troides dohertyi
Troides prattorum

Shepard's Clodius Parnassian
 Strohbeen's Clodius Parnassian
 Golden Kaiser-I-Hind
 Kaiser-I-Hind

I U.S.A.
 Ex [U.S.A.]
 K China
 R India to China
 E Taiwan
 I Sabah, Sarawak
 V Sulawesi
 I Moluccas

Talaud Black Birdwing

Family Pieridae

Artogeia virginienensis
Belenois orgygia
Euchloe hyantis andrewsi
Mylothris carcassoni
Pieris krueperi devta

West Virginia White

Andrew's Marble Butterfly

I Canada, U.S.A.
 E South Africa
 I U.S.A.
 R Zimbabwe
 R India

Family Lycaenidae

Alaena margaritacea
Aloeides caledoni
Aloeides dentatis
Aloeides egerides
Aloeides lutescens
Argyrocupha malagrida malagrida
Argyrocupha malagrida paarlensis
Callophrys mossii bayensis
Capys penningtoni
Chrysothitis cotrelli
Chrysothitis greas
Chrysothitis zeuxo
Cyclyrus mandersi
Deloneura immaculata
Deloneura millari millari
Deudorix penningtoni
Deudorix vansonii
Durbania limbata
Erikssonia acraeina
Eumacrus atala florida
Everes comyntas texanus
Glaucopsyche lygdamus palosverdesensis
Glaucopsyche xerces
Hemiargus thomasi bethune-bakeri
Icaricia icarioides missionensis

Lion's Head Copper
 Lion's Head Copper
 San Bruno Elfin

Drakensburg Copper

Millar's Buff

Florida Atala Hairstreak
 Texas Tailed Blue
 Palos Verdes Blue
 Xerces Blue
 Miami Blue Butterfly
 Mission Blue

V South Africa
 V South Africa
 R South Africa
 V South Africa
 V South Africa
 V South Africa
 V South Africa
 V South Africa
 E U.S.A.
 E South Africa
 I South Africa
 I South Africa
 I South Africa
 I Mauritius
 Ex? [South Africa]
 V South Africa
 V South Africa
 V South Africa
 V South Africa
 R South Africa
 V U.S.A.
 Ex [U.S.A.]
 Ex? [U.S.A.]
 Ex [U.S.A.]
 I U.S.A.
 E U.S.A.

<u>Icaricia icarioides moroensis</u>	Moro Blue Bay Blue	I	U.S.A.
<u>Icaricia icarioides pheres</u>	Pheres Blue	I	U.S.A.
<u>Lepidochrysops ariadne</u>		E	South Africa
<u>Lepidochrysops bacchus</u>		V	South Africa
<u>Lepidochrysops hypopolia</u>		Ex?	[South Africa]
<u>Lepidochrysops loewensteini</u>		V	South Africa
<u>Lepidochrysops lotana</u>		E	South Africa
<u>Lepidochrysops methymna dicksoni</u>		E	South Africa
<u>Lepidochrysops titei</u>		V	South Africa
<u>Lycaeides argyrognomon lotis</u>	Lotis Blue	E	U.S.A.
<u>Lycaeides melissa samuelis</u>	Karner Blue	I	U.S.A.
<u>Lycaena dispar</u>	Large Copper	E	Northern Europe
<u>Lycaena dorcas claytoni</u>	Clayton's Copper	I	U.S.A.
<u>Lycaena hermes</u>	Hermes Copper	I	U.S.A., Mexico
<u>Maculinea alcon</u>	Alcon Large Blue	V	Europe, U.S.S.R.
<u>Maculinea arion</u>	Large Blue	V	Europe, U.S.S.R.
<u>Maculinea arionides</u>		V	China, Japan, U.S.S.R.
<u>Maculinea arionides matsumara</u>	Greater Large Blue	V	China, Japan, U.S.S.R.
<u>Maculinea nausithous</u>	Greater Large Blue	V	China, Japan, U.S.S.R.
<u>Maculinea rebeli</u>	Dusky Large Blue	E	Europe, U.S.S.R.
<u>Maculinea teleius</u>	Rebel's Large Blue	V	South & Central Europe
<u>Maculinea teleius burdigalensis</u>	Scarce Large Blue	E	Europe & Northern Asia
<u>Notarhynus binghami</u>	Scarce Large Blue	E	France
<u>Oreolyce dohertyi</u>		R	India
<u>Ornipholidotos peucetia penningtoni</u>	Naga Hedge Blue	R	India
<u>Oxychaeta dicksoni</u>	White Mimic	I	Mozambique, South Africa
<u>Panchala ganesa loomisi</u>	Dickson's Copper	E	South Africa
<u>Philotiella speciosa bohartorum</u>	Tailless Blue	E	Japan
<u>Plebejus emigdionis</u>	Bohart's Blue	I	U.S.A.
<u>Plebejus icarioides missionensis</u>	San Emigdio Blue	I	U.S.A.
<u>Plebicula golgus</u>	Mission Blue	E	U.S.A.
<u>Poecilmitis adonis</u>	Nevada Blue	E	Spain
<u>Poecilmitis aureus</u>		V	South Africa
<u>Poecilmitis endymion</u>		I	South Africa
<u>Poecilmitis lycnurius</u>		V	South Africa
<u>Poecilmitis nigricans</u>		V	South Africa
<u>Poecilmitis rileyi</u>		V	South Africa
<u>Pseudiolaus lulua</u>		V	South Africa
<u>Shijimiaeoides battoides allyni</u>	Tsomo River Copper	I	South Africa
<u>Shijimiaeoides battoides comstocki</u>	Blue Jewel Copper	I	South Africa
<u>Shijimiaeoides eoptes smithi</u>		V	South Africa
<u>Shijimiaeoides langstoni langstoni</u>		V	South Africa
	White Spotted Sapphire	V	South Africa
	El Segundo Blue	E	U.S.A.
	Comstock's Blue	I	U.S.A.
	Smith's Blue	E	U.S.A.
	Langston's Blue	I	U.S.A.

<u>Shijimiaeoides rita mattonii</u>	Mattoni's Blue	I	U.S.A.
<u>Spindasis collinsi</u>		V	Tanzania
<u>Strymon acis bartrami</u>	Bartram's Hairstreak	I	U.S.A.
<u>Strymon avalona</u>	Avalon Hairstreak	K	U.S.A.
<u>Thestor dicksoni dicksoni</u>	Dickson's Thestor	V	South Africa
<u>Thestor kaplani</u>	Kaplan's Thestor	V	South Africa
<u>Thestor tempe</u>		V	South Africa
<u>Trimenia wallengrenii</u>	Wallengren's Copper	V	Tanzania
<u>Uranothauma usambarae</u>		V	Tanzania

Family Libytheidae

Libythea cinyras

EX [Mauritius]

Family Danaidae (or Nymphalidae: Danainae)

<u>Amauris comorana</u>		R	Comoro Is
<u>Amauris nossima</u>		R	Comoro Is, Madagascar
<u>Amauris pheodan</u>		R	Mauritius
<u>Anetia briarea</u>		R	Cuba, Hispaniola
<u>Anetia cubana</u>		R	Cuba
<u>Anetia jaegeri</u>		R	Hispaniola
<u>Anetia pantheratus</u>		R	Cuba, Hispaniola
<u>Danaus cleophile</u>		K	Hispaniola, Jamaica
<u>Euploea albicosta</u>		R	Irian Jaya
<u>Euploea blossomae</u>		R	Philippines
<u>Euploea caespes</u>		R	Indonesia
<u>Euploea configurata</u>		R	Sulawesi
<u>Euploea cordelia</u>		R	Sulawesi
<u>Euploea dentiplaga</u>		R	Indonesia
<u>Euploea doretta</u>		R	Bismarck Arch.
<u>Euploea eboraci</u>		R	Bismarck Arch.
<u>Euploea eupator</u>		R	Sulawesi
<u>Euploea euphon</u>		R	Mauritius, Reunion, Rodrigues
<u>Euploea gamelia</u>		R	Java
<u>Euploea lacon</u>		R	Bismarck Arch.
<u>Euploea latifasciata</u>		R	Sulawesi
<u>Euploea magou</u>		R	Sulawesi
<u>Euploea martinii</u>		R	Sumatra
<u>Euploea mitra</u>		R	Seychelles
<u>Euploea tobleri</u>		R	Philippines
<u>Euploea tripunctata</u>		R	Irian Jaya
<u>Idea electra</u>		R	Philippines
<u>Idea iasonia</u>		R	Sri Lanka
<u>Idea malabarica</u>		R	India

Sulawesi Tree Nymph

Idea tambusisiana
Ideopsis hewitsonii
Ideopsis klassika
Ideopsis oberthurii
Parantica albata
Parantica clinias
Parantica crowleyi
Parantica dannatti
Parantica davidi
Parantica garamantis
Parantica kirbyi
Parantica kuekenthalii
Parantica marcia
Parantica menadensis
Parantica milagros
Parantica nilgiriensis
Parantica philo
Parantica phyle
Parantica pseudomelaneus
Parantica pumila
Parantica rotundata
Parantica schoenigi
Parantica sulewattan
Parantica taprobana
Parantica tityoides
Parantica toxopei
Parantica wegneri
Parantica weiskei
Protoploea apatela
Tiradelphe schneideri
Tirumala euploeomorpha
Tirumala gautama

K Sulawesi
R Irian Jaya
R Indonesia
R Indonesia
R Java, Sumatra
R Bismarck Arch.
R Borneo
R Philippines
R Philippines
E Bougainville, Solomon Is
R New Guinea
K Sulawesi
R Irian Jaya
R Sulawesi
R Philippines
R India
R Indonesia
R Philippines
R Java
R New Caledonia
R Bismarck Arch.
R Philippines
R Sulawesi
R Sri Lanka
R Sumatra
R Sulawesi
R Indonesia
R New Guinea
R New Guinea
R Solomon Is
R Solomon Is
R Indochina, China, Malaysia

Family Satyridae (or Nymphalidae: Satyrinae)

Coenonympha oedippus
Erebia annada annada
Erebia christi
Erebia gorgone
Erebia narasingha narasingha
Erebia ottomana
Erebia scipio
Erebia sthenyo

E Europe & Northern Asia
R Bhutan, India
V Italy, Switzerland
I France
R India
R Southern Europe
R France, Italy
R France, Spain

False Ringlet
Raetzer's Ringlet
Gavarnie Ringlet

Ottoman Brassy Ringlet
Larche Ringlet
False Dewy Ringlet

<u>Erebia sudetica</u>		Sudeten Ringlet				Europe
<u>Lethe distans</u>		Scarce Red Forester				Burma, India
<u>Lethe dura gammiei</u>						Bhutan, India
<u>Lethe europa tamuna</u>						India
<u>Lethe gemina gafuri</u>						India
<u>Lethe margaritae</u>						Bhutan, India
<u>Lethe ocellata lynceus</u>						Bhutan, India
<u>Lethe ramadeva</u>						Bhutan, Burma, India
<u>Lethe satyavati</u>						India
<u>Pararge menava maeroides</u>						India
<u>Stygionympha dicksoni</u>		Dickson's Brown				South Africa
<u>Ypthima dohertyi persimilis</u>						Burma, India

Family Nymphalidae (or Nymphalinae)

<u>Anaea floridalis</u>		Florida Leafwing				U.S.A.
<u>Antanartia borbonica</u>						Madagascar, Mauritius, Reunion
<u>Antanartia borbonica mauritiana</u>						Mauritius
<u>Apaturopsis kilusa</u>						Madagascar
<u>Apaturopsis pauliani</u>						Madagascar
<u>Apodemia mormo langei</u>		Lange's Metalmark				U.S.A.
<u>Boloria acrocneuma</u>		Uncompahgre Fritillary Butterfly				U.S.A.
<u>Cercyonis sthenele sthenele</u>		Sthenele Wood Nymph				U.S.A.]
<u>Charaxes cowani</u>						Madagascar
<u>Charaxes druceanus entabeni</u>		Silver Barred Charaxes				South Africa
<u>Charaxes druceanus williamsi</u>						Kenya
<u>Charaxes durnfordi nicholi</u>		Chestnut Rajah				Burma, India
<u>Charaxes karkloof capensis</u>						South Africa
<u>Charaxes marieps</u>						South Africa
<u>Charaxes sambarae</u>						Tanzania
<u>Charaxes xiphares desmondi</u>						Kenya
<u>Charaxes xiphares xiphares</u>						South Africa
<u>Cymothoe alcimeda alcimeda</u>		Western Forest Emperor				South Africa
<u>Cymothoe amaniensis</u>		Battling Glider				South Africa
<u>Cymothoe aurivillii</u>						Tanzania
<u>Cymothoe magambae</u>						Tanzania
<u>Cymothoe melanjae</u>						Tanzania
<u>Cymothoe teita</u>						Malawi
<u>Dolichallia bisaltide andamana</u>		Andaman Leafwing				Kenya
<u>Euphydryas editha bayensis</u>		Bay Checkerspot Butterfly				Andaman Is
<u>Euphydryas editha monoensis</u>		Mono Checkerspot Butterfly				U.S.A.
<u>Euryphura achlys</u>		Mottled Green				U.S.A.
<u>Euthalia malapana</u>						East & South Africa
<u>Euxanthe madagascariensis</u>						[Taiwan]
						Madagascar

<u>Fabriciana elisa</u>	Corsican Fritillary	V	France, Italy
<u>Heliconius charltonius peruvianus</u>		V	Ecuador, Peru
<u>Heliconius nattereri</u>	Natterer's Longwing	E	Brazil
<u>Hypodryas maturna</u>	Scarce Fritillary	E	Europe
<u>Hypolimnas antevorta</u>		V	Tanzania
<u>Hypolimnas dubius drucei</u>		I	Comoro Is, Madagascar, Mauritius
<u>Neptis decaryi</u>		R	Madagascar
<u>Neptis manasa</u>		R	China, India, Sikkim
<u>Neptis metella gratilla</u>	Pale Hockeystick Sailer	R	Madagascar
<u>Neptis nycteus</u>		R	Sikkim
<u>Neptis sankara nar</u>		R	Andaman Is
<u>Neptis sextilla</u>		I	Madagascar
<u>Phalanta philiberti</u>		E	Seychelles
<u>Phyciodes batesi</u>		I	U.S.A.
<u>Salamis angustina</u>	Tawny Crescent Butterfly	I	Madagascar, Mauritius
<u>Salamis angustina angustina</u>	Salamis Retrecie	I	Madagascar, Reunion
<u>Salamis angustina vinsoni</u>	Salamis Retrecie	Ex	[Mauritius]
<u>Sasakia charonda</u>		I	Japan, Taiwan
<u>Satyroides eurydice fumosa</u>	Smokey Eyed Brown Butterfly	I	U.S.A.
<u>Smerina manoro</u>		R	Madagascar
<u>Speyeria adiaeste atossa</u>	Atossa	Ex	[U.S.A.]
<u>Speyeria callippe callippe</u>	Callippe Silverspot	I	U.S.A.
<u>Speyeria hydaspe conquista</u>	Silverspot	I	U.S.A.
<u>Speyeria idalia</u>	Regal Fritillary	I	Canada, U.S.A.
<u>Speyeria nokomis caerulescens</u>	Blue Silverspot	I	U.S.A.
<u>Speyeria nokomis nokomis</u>	Great Basin Silverspot	I	U.S.A.
<u>Speyeria zerene behrensi</u>	Behren's Silverspot	I	U.S.A.
<u>Speyeria zerene hippolyta</u>	Oregon Silverspot	V	U.S.A.
<u>Speyeria zerene myrtleae</u>	Myrtle's Fritillary	R	U.S.A.
Family Acraeidae			
<u>Acraea hova</u>		R	Madagascar
<u>Acraea sambavae</u>		R	Madagascar
Family Pyralidae			
<u>Hedylepta (14 species)</u>	Hedyleptan Moths	T*	Hawaii
<u>Kupea electilis</u>		V	New Zealand
<u>Margaronia cyanomichla</u>	Blue Margaronian	I	Hawaii
<u>Margaronia exaula</u>	Green Margaronian	I	Hawaii
<u>Oeoblia dryadopa</u>	Oheuaupaka Oeobian Moth	I	Hawaii

Family Geometridae

<u>Fletcherana ioxantha</u>	Ioxantha Looper Moth	I	Hawaii
<u>Gnophos obscurata</u>		K	Austria
<u>Scotorythra megalophylla</u>	Kona Giant Looper Moth	Ex?	[Hawaii]
<u>Scotorythra nesiotetes</u>	Ko'olau Giant Looper Moth	Ex?	[Hawaii]
<u>Scotorythra paratactis</u>	Hawaiian Hopseed Looper Moth	Ex?	[Hawaii]
<u>Iritocleis microphylla</u>	Ola'a Peppered Looper Moth	Ex?	[Hawaii]

Family Lasiocampidae

<u>Eriogaster catax</u>	Small Lappet Moth	E	Austria, Belgium, F.R.G., Hungary
<u>Phylodesma ilicifolia</u>		V	Central & North Europe to Japan

Family Saturniidae

<u>Graellsia isabelae</u>	Spanish Moon Moth	V	France, Spain
<u>Saturnia pyri</u>	Great Peacock Moth	E	Austria, Czechoslovakia, F.R.G.

Family Spingidae

<u>Celerio wilsoni perkinsi</u>	Kern Primrose Sphinx Moth	E	Hawaii
<u>Euproserpinus euterpe</u>	Prairie Sphinx Moth	V	U.S.A.
<u>Euproserpinus wiesti</u>		V	U.S.A.
<u>Hyles hippophaes</u>	Blackburn's Sphinx Moth	V	Europe & U.S.S.R.
<u>Manduca blackburni</u>	Fabulous Green Sphinx of Kauai	Ex?	[Hawaii]
<u>Proserpinus proserpina</u>		V	Central & South Europe, Middle East
<u>Tinostoma smaragditis</u>		Ex?	[Hawaii]

Family Noctuidae

<u>Acrionicta albarufa</u>	Albarufan Dagger Moth	I	Canada, U.S.A.
<u>Agrotis crinigera</u>	Poko Noctuid Moth	Ex?	[Hawaii]
<u>Agrotis fasciata</u>	Midway Noctuid Moth	EX	[Hawaii]
<u>Agrotis kerri</u>	Kerr's Noctuid Moth	Ex?	[Hawaii]
<u>Agrotis laysanensis</u>	Laysan Noctuid Moth	EX	[Hawaii]
<u>Agrotis photophila</u>		EX	[Hawaii]
<u>Agrotis procellaris</u>	Procellaris grotis Noctuid Moth	EX	[Hawaii]
<u>Catocala marmorata</u>	Marbled Underwing Moth	I	U.S.A.
<u>Catocala pretiosa</u>	Precious Underwing Moth	I	U.S.A.
<u>Erythroecia hebardei</u>	Hebard's Noctuid Moth	I	U.S.A.
<u>Helicoverpa confusa</u>	Confused Moth	Ex?	[Hawaii]
<u>Helicoverpa minuta</u>	Minute Noctuid Moth	EX	[Hawaii]
<u>Hydraecia petasitis</u>		E	Austria, F.R.G.
<u>Hypena laysanensis</u>	Laysan Dropseed Noctuid Moth	EX	[Hawaii]
<u>Hypena newelli</u>	Hilo Noctuid Moth	Ex?	[Hawaii]
<u>Hypena plagiota</u>	Lovegrass Noctuid Moth	Ex?	[Hawaii]

Hypena senicula
Lithophane lemmeri
Peridroma porphyrea
Pyreferra ceromatica

Kaholuamano Noctuid Moth
 Lemmer's Noctuid Moth
 Ceromatic Noctuid Moth

Ex? [Hawaii]
 I U.S.A.
 Ex [Hawaii]
 I Canada, U.S.A.

Order HYMENOPTERA

Family Eupelmidae

Eupelmus nihoaensis

Nihoa Eupelmus Wasp

I Hawaii

Family Bethyilidae

Sclerodermus nihoaensis

Nihoa Sclerodermus Wasp

I Hawaii

Family Mutillidae

Myrmosula pacifica

Antioch Mutillid Wasp

I U.S.A.

Family Formicidae

Anergates atratulus
Aneuretus simoni
Aulacopone relicta
Camponotus aethiops
Camponotus dalmanicus
Camponotus fallax
Camponotus universitatis
Epimyrma goesswaldi
Epimyrma ravouxi
Formica aquilonia
Formica lugubris
Formica polyctena
Formica pratensis
Formica rufa
Formica transcaucasica
Formica uralensis
Leptothorax goesswaldi
Myrmica bibikoffi
Myrmica slovacica
Nothomyrmecia macrops
Polyergus rufescens

Sri Lankan Relict Ant
 Caucasian Relict Ant

Ravoux's Slavemaker Ant

European Red Wood Ant

Red Wood Ant
 Black Bog Ant

Goesswald's Inquiline Ant

Australian Ant

I F.R.G., Switzerland, U.K.
 K Sri Lanka
 K Azerbaydzhan
 I F.R.G.
 I Switzerland
 I F.R.G.
 I F.R.G., France
 I Europe
 R Central & Southern Europe
 V F.R.G.
 V F.R.G., Italy
 V F.R.G., Italy
 V U.K.
 V Central Europe
 I Northern Europe
 I F.R.G., Switzerland
 K Switzerland
 I Switzerland
 I Switzerland
 K Australia
 I F.R.G.

Family Vespidae

Odynerus niihauensis
Odynerus soror

Niihau Vespid Wasp
 Soror Vespid Wasp

E Hawaii
 E Hawaii

Family Sphecidae

- Deinomimesa hawaiiensis
- Deinomimesa punae
- Ectemnius curtipes
- Ectemnius fulvicrus
- Ectemnius giffardi
- Ectemnius haleakalae
- Ectemnius nesocrabo bidecoratus
- Eucerceris ruficeps
- Nesomimesa kauaiensis
- Nesomimesa perkinsi
- Nesomimesa sciapteryx
- Philanthus nasalis

- Hawaiian Sphecid Wasp
- Puna Sphecid Wasp
- Short-foot Sphecid Wasp
- Brown Cross Sphecid Wasp
- Giffard's Sphecid Wasp
- Haleakala Sphecid Wasp
- Bidecoratus Sphecid Wasp
- Redheaded Sphecid Wasp
- Kauai Sphecid Wasp
- Shade-winged Sphecid Wasp
- Antioch Sphecid Wasp

- E Hawaii
- E Hawaii
- E Hawaii
- E Hawaii
- E Hawaii
- E Hawaii
- I U.S.A.
- I U.S.A.
- E Hawaii
- E Hawaii
- E Hawaii
- I U.S.A.

Family Colletidae

Nesoprotopis (57 species)

Hawaii

Family Andrenidae

- Perdita hirticeps luteocincta
- Perdita scitula antiochensis

- Yellow Banded Andrenid Bee
- Antioch Andrenid Bee

- I U.S.A.
- I U.S.A.

Family Megachilidae

Chalicodoma pluto

Moluccas

CLASS ONYCHOPHORA

Order ONYCHOPHORA

Family Peripatidae

Family Peripatosidae

- Peripatus (10 genera)
- Peripatus (12 genera)

- V Equatorial Tropics
- V Southern Hemisphere

CLASS ECHINOIDA

Order ECHINOIDA

Family Echinidae

- Echinus esculentus
- Paracentrotus lividus

- European Edible Sea Urchin
- Purple Urchin

- K North-east Atlantic
- CT North-east Atlantic, Mediterranean

Phylum ECHINODERMATA

INDEX

- Aburria, 19
Acanthaclisis, 75
Acanthis, 31
Acanthodrilidae, 60
Acanthometropus, 66
Acanthorutilus, 40
Acavidae, 54
Accipiter, 18
Achatinella, 52
Achatinellidae, 52
Aciastrion, 67
Acinonyx, 11
Acipenser, 40
Acneus, 79
Acraea, 93
Acraeidae, 93
Acrantophis, 37
Acrididae, 72
Acrocephalus, 28
Acroceridae, 82
Acrolophitus, 72
Acronicta, 94
Actiniaria, 49
Addax, 14
Adelocosa, 61
Aegialia, 78
Aepyceros, 14
Aeschrithmysus, 80
Aeshna, 69
Aeshnidae, 69
Aethiothemis, 70
Agabus, 76
Agapetus, 83
Agapornis, 22
Agarodes, 84
Agelaius, 31
Agelastes, 19
Aglycyderidae, 81
Agonum, 76
Agriocnemis, 67
Agrotis, 94
Ailuropoda, 10
Akalats, 29
Alabamaubria, 79
Alaena, 88
Alasmidonta, 57
Alauda, 27
Albatrosses, 16
Alcelaphus, 14
Alethe, 28
Allanaspides, 62
Allenopithecus, 6
Alligator, 35
Allocebus, 5
Allocranonyx, 63
Alloperla, 73
Allorhizucha, 70
Allotoca, 46
Aloeides, 88
Alouatta, 5
Amanipodagrion, 67
Amastridae, 53
Amauris, 90
Amaurocichla, 28
Amaurornis, 20
Amazona, 22
Amber Snail, 54
Ambloplites, 46
Amblyopsis, 44
Amblyrhynchus, 36
Amblysomus, 3
Ambrysomus, 73
Ambystoma, 38
Ameiva, 36
Ameletus, 66
Ammocrypta, 47
Ammodorcas, 14
Ammodramus, 30
Ammonitella, 55
Ammonitellidae, 55
Ammopelmatus, 71
Ammotragus, 14
Amnicola, 50
Amphipoda, 63
Amphipods, 63
Amphispira, 30
Amphispiza, 30
Amychus, 79
Amytornis, 28
Anaea, 92
Anagotus, 81
Anas, 17
Anaspidacea, 62
Anaspidae, 62
Anaspides, 62
Anax, 69
Ancylastrum, 52
Andrenidae, 96
Andrias, 38
Anectothemis, 70
Anergates, 95
Anetia, 90
Aneuretus, 95
Anguispira, 54
Annelida, 59
Anniella, 36
Anobiidae, 80
Anodorhynchus, 22
Anoglypta, 54
Anolis, 36
Anomala, 78
Anoplura, 73
Anostraca, 62
Anser, 17
Antanartia, 92
Anteaters, 7
Antechinus, 3
Antelopes, 14
Anthicidae, 80
Anthicus, 80
Anthipathidae, 49
Anthozoa, 49
Anthreptes, 30
Anthus, 27
Antilocapra, 14
Antipatharia, 49
Antipodochlora, 69
Antipodogomphus, 68
Antiponemertes, 50
Antpittas, 26
Antrolana, 62
Ants, 95
Antwrens, 26
Apalis, 28
Apalopteron, 30
Apatalestea, 82
Apatania, 83
Apaturopsis, 92
Apes, 7
Aphaostracon, 50
Aphodius, 78
Apiocertidae, 82
Aplonis, 32
Aplothorax, 76
Apodemia, 92
Appalachia, 72
Apterocyclus, 77
Apteromantis, 70
Apus, 24
Aquila, 18
Ara, 28
Arachnida, 61
Araneae, 61
Araneidae, 61
Arapaima, 40
Aratinga, 22
Archaeogastropoda, 50
Arctocephalus, 11
Ardea, 17
Ardeotis, 21
Argiagrion, 67
Argonemertes, 50
Argyresthia, 85
Argyresthiidae, 85
Argyrocupha, 88
Arhynchobdellae, 60
Arionidae, 54
Arkansia, 57
Armadillos, 7
Armatobalanus, 62
Artamus, 32
Artemia, 62
Artemiidae, 62
Arthropoda, 60
Artogeia, 88
Arubolana, 62
Asaphomyia, 82
Asauridae, 61
Ascalaphidae, 75
Asellidae, 63
Ashmunella, 55
Asilidae, 82
Asio, 24
Aspiduchus, 70
Asses, 12
Assimineae, 51
Assimineidae, 51
Astacidae, 65
Astacoides, 65
Astacopsis, 65
Astacus, 65
Asteiidae, 83
Ataeniobius, 46
Ataenius, 78
Ateles, 5
Atelocynus, 10
Atelornis, 25
Athearnj, 51
Athene, 24
Atlantisia, 20
Atlapetes, 30
Atractelmis, 79
Atrichornis, 26
Atrophaneura, 86
Atyidae, 65
Aulacopone, 95
Austrocordulia, 69
Austrolestes, 67
Austropotamobius, 65
Avahi, 5
Axis, 13
Axolotl, 38
Aythya, 17
Babblers, 29
Babyrousa, 13
Baetica, 71
Baetidae, 66
Balaena, 9
Balaenoptera, 9
Balanidae, 62
Balanus, 62
Balea, 54
Bandicoot, 3
Banksula, 62
Banza, 71
Barbs, 40
Barbus, 40
Baronia, 86
Basommatophora, 52
Bass, 46
Batagur, 33
Bathmocercus, 28

Index

- Batomys, 8
Batrachophrynus, 39
Batrachoseps, 38
Bats, 4
Battus, 86
Bears, 10
Bees, 96
Beetles, 76
Behningiidae, 66
Belenois, 88
Belocephalus, 71
Beloneuria, 73
Belontia, 48
Belostoma, 73
Belostomatidae, 73
Bethylidae, 95
Bettongia, 2
Bhutanitis, 86
Binneva, 54
Birdwings, 86
Birgus, 66
Bivalvia, 57
Blackbirds, 30, 31
Blastocerus, 13
Blattaria, 70
Blattidae, 70
Blephariceridae, 82
Blindcats, 43
Blister Beetles, 80
Boas, 37
Bolborhynchus, 23
Boloria, 92
Bolyeria, 37
Bos, 14
Bostrychia, 17
Bothrops, 37
Bowdleria, 28
Brachycercus, 67
Brachylophus, 36
Brachypelma, 61
Brachypteracias, 25
Brachyteles, 5
Brachythemis, 70
Brachytron, 69
Bradypterus, 28
Bradypus, 7
Branchinecta, 62
Branchinectidae, 62
Branta, 17
Brennania, 82
Bristlebirds, 28
Bristletails, 66
Bryania, 83
Brychius, 76
Bubalus, 14
Bubo, 24
Budorcas, 14
Bufo, 39
Bugs, 73
Bulimulidae, 54
Bulimulus, 54
Bunolagus, 8
Buntings, 30
Buprestidae, 79
Buprestis, 79
Bush cricket, 71
Bustards, 21
Buteo, 18
Butterflies, 85
Cacajao, 5
Caconemobius, 71
Caddisflies, 83
Caecidotea, 63
Caenidae, 67
Caiman, 35
Caimans, 35
Cairina, 17
Callaeas, 32
Callagur, 33
Callicebus, 5
Callimico, 5
Callithrix, 5
Calophrys, 88
Caloenas, 21
Caloprymnus, 2
Calopterygidae, 68
Calopteryx, 68
Calosoma, 76
Calyptura, 26
Camaenidae, 55
Camarhynchus, 30
Cambaridae, 65
Cambarus, 65
Camels, 13
Camelus, 13
Campellolebias, 44
Campephaga, 27
Campephilus, 25
Camponotus, 95
Campsicnemus, 82
Canis, 10
Canthya, 57
Capnia, 72
Capniidae, 72
Capra, 14
Capricornis, 14
Caprimulgus, 24
Caprolagus, 8
Capromys, 9
Capys, 88
Carabidae, 76
Carabus, 76
Carcinoscorpius, 60
Carelia, 53
Caretta, 34
Carettochelys, 34
Carolella, 85
Carposinidae, 85
Carterocephalus, 85
Carunculina, 57
Casarea, 37
Caseolus, 56
Catabasis, 43
Catagonus, 13
Catfish, 43
Catinella, 54
Catocala, 94
Catostomus, 42
Catreus, 19
Cats, 11
Cattle, 14
Cavaticovelgia, 73
Cavefish, 44
Celerio, 94
Cephalophus, 14
Cephalopterus, 26
Ceraclea, 84
Cerambycidae, 80
Cerambyx, 80
Ceratella, 67
Ceratotherium, 12
Cercocebus, 6
Cercopithecus, 6
Cercyonis, 92
Ceriagrion, 67
Cervus, 13
Cesonia, 61
Chaeropus, 3
Chaetarthria, 77
Chaetomys, 8
Chalicodoma, 96
Channa, 48
Characodon, 46
Charadrius, 21
Charaxes, 92
Charina, 37
Charonia, 52
Chasmistes, 42
Chela, 40
Chelicerata, 60
Chelonia, 34
Cherax, 65
Chersodromia, 82
Chilota, 60
Chimpanzees, 7
Chinchilla, 9
Chioglossa, 38
Chiropotes, 5
Chlamyphorus, 7
Chloaeltis, 72
Chloephaga, 17
Chlorocichla, 27
Chlorolestidae, 67
Chloroperlidae, 73
Chloropeta, 28
Choeropsis, 13
Chondrohierax, 18
Chrysocyon, 10
Chrysomelidae, 81
Chrysoritis, 88
Chrysospalax, 3
Chub, 41
Cicadas, 75
Cicadellidae, 75
Cicadidae, 75
Cichlasoma, 48
Cichlherminia, 28
Cicindela, 76
Cicindelidae, 76
Ciconia, 17
Ciliophora, 49
Cincinnatia, 50
Cinclocerthia, 28
Cinclus, 28
Cirolanidae, 62
Cisco, 44
Cisticola, 28
Cistothorus, 28
Civets, 10
Cixiidae, 74
Clams, 59
Clamyphorus, 7
Claravis, 21
Clarias, 43
Clasiliidae, 54
Claviccoccus, 75
Clemmys, 33
Click Beetles, 79
Cnidaria, 49
Coahuilix, 50
Cobras, 37
Cochliopa, 51
Cochliopina, 51
Cochylidae, 85
Coeligena, 24
Coelus, 80
Coenagrion, 68
Coenagrionidae, 67
Coenobitidae, 66
Coenocorpyha, 21
Coenonympha, 91
Coleophora, 85
Coleophoridae, 85
Coleoptera, 76
Colinus, 19
Colletidae, 96
Collocalia, 24
Colobus, 6
Columba, 21
Conch, 52
Condors, 18

- Congothemis, 70
Conilurus, 8
Conocephaloides, 71
Conolophus, 36
Conradilla, 57
Conraua, 39
Coots, 20
Cophura, 82
Copris, 78
Copsyclus, 28
Coracina, 27
Coracopsis, 23
Coralliidae, 49
Corallium, 49
Corals, 49
Corambidae, 52
Cordulegaster, 69
Cordulegasteridae, 69
Corduliidae, 69
Coregonus, 44
Coreobagrus, 43
Cornigomphus, 68
Corvus, 33
Cossypha, 28
Cotinga, 26
Cottus, 46
Coturnicops, 20
Coua, 23
Crabs, 66
Cranes, 20
Crangonyctidae, 63
Crangonyx, 63
Craseonycteris, 4
Crax, 19
Crayfish, 65
Creadion, 32
Creepers, 31
Crenichthys, 44
Crickets, 71
Criniger, 27
Crocidura, 3
Crocodiles, 35
Crocodylus, 35
Crossidius, 80
Crossleyia, 28
Crossoptilon, 19
Crotalus, 37
Crustacea, 62
Cryptochia, 83
Cryptoprocta, 10
Crypturellus, 15
Ctenizidae, 61
Cualac, 44
Cuckoos, 23
Cucujidae, 80
Cucujus, 80
Cumberlandia, 59
Cuon, 10
Curculionidae, 81
Cuscus, 2
Cyanolimnas, 20
Cyanopsitta, 23
Cyanoramphus, 23
Cyclocephala, 78
Cyclocosimia, 61
Cycloptilum, 72
Cyclura, 36
Cyclurius, 88
Cylloepus, 79
Cymatiidae, 52
Cymbiodyta, 77
Cymothoe, 92
Cynolebias, 45
Cynomys, 8
Cyprinodon, 45
Cyprogenia, 57
Cyrtodactylus, 35
Cyrtonaias, 57
Cyrtopeltis, 74
Dace, 41
Daihinibaenetes, 71
Dalla, 85
Dama, 13
Damaliscus, 14
Damselflies, 67
Danaidae, 90
Danaus, 90
Darters, 47
Dasyornis, 28
Daubentonia, 5
Decapoda, 65
Deer, 13
Deinacrida, 71
Deinocossonus, 81
Deinomimesa, 96
Deloneura, 88
Delphacidae, 74
Dendrocopos, 25
Dendrocycgna, 17
Dendroica, 31
Dendrolagus, 2
Dendroleon, 75
Dermaptera, 72
Dermatemys, 33
Dermodochelys, 34
Desmana, 3
Desmocerus, 80
Desmopachria, 76
Deudorix, 88
Diastole, 55
Diceros, 12
Dicranopselaphus, 79
Dicrurus, 32
Didermocerus, 12
Didunculus, 22
Diomedea, 16
Dionda, 40
Diplomystes, 43
Diplotrema, 60
Dipluridae, 61
Dipodomys, 8
Diptera, 82
Discoglossus, 39
Discula, 56
Discus, 54
Distoleon, 75
Diving Beetles, 76
Dogs, 10
Dolania, 66
Doleschallia, 92
Dolichopodidae, 82
Dolomedes, 61
Dolophilodes, 84
Dolphins, 9
Donacia, 81
Dorcatragus, 14
Dorcopsis, 2
Dorcopsulus, 2
Dorcus, 77
Doridella, 52
Dragonflies, 68
Drepanoptila, 22
Dromus, 57
Drosophila, 83
Drosophilidae, 83
Drymarchon, 37
Drvobius, 80
Drvocichloides, 29
Dryococelus, 72
Drvocopus, 25
Drvolimnas, 20
Dryophthorus, 81
Dryotribus, 81
Dubiraphia, 79
Ducks, 17
Ducula, 22
Dugong, 12
Dune Beetles, 80
Durangonella, 51
Durbania, 88
Dusicvon, 10
Dynastes, 78
Dysticheus, 81
Dytiscidae, 76
Dytiscus, 76
Eagles, 18
Eanus, 79
Earthworms, 60
Earwigs, 72
Ecchiorolestes, 67
Ecclisomyia, 84
Echidnas, 2
Echinidae, 96
Echinodermata, 96
Echinoida, 96
Echinus, 96
Echymipera, 3
Ectemnius, 96
Ectodemia, 84
Edwardsiidae, 49
Edwardsina, 82
Efferia, 82
Egretta, 17
Eidoleon, 75
Elaphrus, 76
Elateridae, 79
Elephants, 12
Elephas, 12
Eleuthemis, 68
Eleutherodactylus, 39
Elliptio, 57
Elmidae, 79
Elona, 57
Elonidae, 57
Emerita, 66
Empetrichthys, 45
Empicoris, 74
Empididae, 82
Enallagma, 68
Endodontidae, 54
Engaewa, 65
Enopla, 50
Eopenthes, 79
Epargyreus, 85
Ephemera, 67
Ephemerella, 67
Ephemerellidae, 67
Ephemeridae, 67
Ephemeroptera, 66
Ephydriidae, 83
Epicrates, 37
Epimyrma, 95
Epioblasma, 57
Epiophlebia, 68
Epiophlebiidae, 68
Equus, 12
Erebia, 91
Eremichthys, 41
Eremomela, 29
Eresidae, 61
Eresus, 61
Eretmochelys, 34
Eriksonia, 88
Eriogaster, 94
Erithacus, 29
Erpetogomphus, 68
Erymnochelys, 34
Erythroecia, 94
Erythrura, 32
Estrilda, 32

Index

- Etheostoma, 47
Eubalaena, 9
Eucerceris, 96
Euchloe, 88
Eucnemidae, 79
Eucrenonaspides, 62
Eucyclogobius, 48
Eulidia, 24
Eulonchus, 82
Eumaeus, 88
Eumastacidae, 72
Eumorsea, 72
Eunice, 59
Eunicella, 49
Eunicida, 59
Eunicidae, 59
Eunymphicus, 23
Eupelmidae, 95
Eupelmus, 95
Euphydryas, 92
Eupleres, 10
Euploea, 90
Euproserpinus, 94
Eurycea, 38
Euryphura, 92
Eurystomus, 24
Eurytides, 86
Euscheman, 85
Eusthenia, 73
Eustheniidae, 73
Euthalia, 92
Eutriorchis, 18
Euxanthe, 92
Evarra, 41
Everes, 88

Fabriciana, 93
Falco, 18
Falcons, 18
Farula, 84
Felexamia, 75
Felis, 11
Ferminia, 28
Finchs, 30
Fireflies, 80
Fisherola, 52
Fletcherana, 94
Flies, 82
Flufftails, 20
Fluminicola, 51
Flycatchers, 29
Flying Foxes, 4
Fontelicella, 51
Fonticella, 51
Formica, 95
Formicidae, 95
Formicivora, 26
Fossa, 10

Foudia, 32
Francolins, 19
Francolinus, 19
Fregata, 16
Fringilla, 31
Frogs, 38
Fulica, 20
Fundulus, 45
Fusconaia, 58

Galaxias, 44
Galemys, 3
Galidictis, 10
Gallicolumba, 22
Gallinula, 20
Gallotia, 36
Gambelia, 36
Gambusia, 46
Gammaridae, 63
Gammarus, 63
Garter snakes, 37
Gastropoda, 50
Gavialis, 35
Gazella, 15
Gazelles, 15
Geckos, 35
Gelechiidae, 85
Geocapromys, 9
Geochelone, 33
Geomalacus, 54
Geometridae, 94
Geomitra, 56
Geonemertes, 50
Geopsittacus, 23
Geospiza, 30
Geothlypis, 31
Geotrupidae, 78
Gephyroglanis, 43
Geronticus, 17
Gerrhonotus, 36
Gharians, 35
Gibbons, 7
Gila, 41
Glacivicola, 76
Glaresis, 78
Glaucidium, 24
Glaucis, 24
Glaucopsyche, 88
Glossosomatidae, 83
Glyphalinia, 55
Glyphopsyche, 84
Gnaphosidae, 61
Gnophos, 94
Gobies, 48
Gomphidae, 68
Gomphus, 68
Gongylomorphus, 36
Goniobasis, 51

Goodeids, 46
Gopherus, 34
Gorgonacea, 49
Gorilla, 7
Gorillas, 7
Gracillariidae, 85
Graellsia, 94
Grallaria, 26
Graphium, 86
Graphoderus, 76
Grapholitha, 85
Grasshoppers, 72
Grayling, 43
Grebes, 15
Greenbuls, 27
Gripopterygidae, 73
Gronocarus, 78
Ground Beetles, 76
Grus, 20
Gryllidae, 71
Grylloblatta, 71
Grylloblattaria, 71
Grylloblattidae, 71
Gryllotalpa, 71
Gryllotalpidae, 71
Guans, 19
Gulella, 54
Gulls, 21
Gymnobelideus, 2
Gymnocharacinus, 43
Gymnocthebius, 77
Gymnogyps, 18
Gymnopholus, 81
Gymnosomata, 52
Gyps, 18
Gyrinidae, 77

Hadramphus, 81
Haematopinidae, 73
Haematopinus, 73
Haematopus, 21
Haideoporus, 76
Halcyon, 24
Haliaeetus, 18
Haliplidae, 76
Halipus, 76
Hansonoperla, 73
Hapalemur, 4
Hapalopsittaca, 23
Haplotaxida, 60
Hares, 8
Harpia, 18
Hawks, 18
Hedylepta, 93
Helicarionidae, 55
Helicidae, 56
Helicodiscidae, 55
Helicodiscus, 55

Heliconius, 93
Helicoverpa, 94
Helisoma, 52
Helix, 56
Helminthoglypta, 56
Helminthoglyptidae, 56
Heloderma, 36
Hemeroibiidae, 75
Hemiargus, 88
Hemignathus, 31
Hemigomphus, 69
Hemiphaga, 22
Hemiphlebia, 67
Hemiphlebiidae, 67
Hemiptera, 73
Hemistena, 58
Hemitragus, 15
Hemitremia, 41
Heosemys, 33
Hepialidae, 84
Heptageniidae, 66
Hermits, 24
Hérons, 17
Hesperia, 85
Hesperidae, 85
Heteramphus, 81
Heterelmis, 79
Heterexis, 81
Heterocleon, 66
Heterocrossa, 85
Heteromirafra, 27
Heterotrichida, 49
Himantopus, 21
Hippidae, 66
Hippocamelus, 13
Hippopotami, 13
Hippopus, 59
Hipposideros, 4
Hippotragus, 15
Hirudinidae, 60
Hirudinoidea, 60
Hirudo, 60
Hirundo, 27
Holcobius, 80
Homarus, 65
Homoeoneuria, 66
Homoptera, 74
Honeyeaters, 30
Hoplonemertea, 50
Horseshoe crabs, 60
Huleechius, 79
Humblotia, 29
Huso, 40
Hutias, 9
Hyaena, 11
Hybopsis, 41
Hydraecia, 94
Hydraena, 77

- Hydraenidae, 77
Hydrobiidae, 50
Hydrochara, 77
Hydrodamalis, 12
Hydromantes, 38
Hydrophilidae, 77
Hydroporus, 76
Hydroptila, 83
Hydrosaurus, 36
Hydrotilidae, 83
Hygrotus, 77
Hyla, 39
Hyles, 94
Hylobates, 7
Hymenoptera, 95
Hypena, 94
Hyperoodon, 9
Hypodryas, 93
Hypolimnas, 92
Hypsipetes, 27

Ibis, 17
Icaricia, 88
Ictalurus, 43
Ictinogomphus, 69
Idea, 90
Ideopsis, 91
Idiostatus, 71
Iguanas, 36
Indophlebia, 69
Indri, 5
Insecta, 66
Io, 51
Iotichthys, 41
Ischnura, 68
Isomma, 69
Isonychia, 66
Isopoda, 62
Isopods, 62
Ithmamar, 74
Ithonidae, 75
Itodacnus, 79

Jasus, 65

Kalania, 74
Kalochelidon, 27
Kangaroos, 2
Katechonemertes, 50
Katydids, 71
Kedestes, 85
Kenkia, 49
Kenkiidae, 49
Killifish, 45
Kinosternon, 33
Kites, 18
Kiwaia, 85
Kobus, 15

Komarekiona, 60
Komarekionidae, 60
Konia, 48
Koonunga, 62
Koonungidae, 62
Kosswigichthys, 45
Kupea, 93

Labeo, 41
Labidura, 72
Labiduridae, 72
Lagochila, 42
Lagorchestes, 2
Lagostrophus, 2
Lagothrix, 5
Lampetra, 39
Lampreys, 39
Lampsilis, 58
Lampyridae, 80
Lancidae, 52
Land Snails, 55
Lanius, 27
Lapwings, 21
Larks, 27
Larus, 21
Lasiocampidae, 94
Lasiorhinus, 2
Lasiurus, 4
Lasmigona, 58
Leaf Bugs, 74
Lednia, 72
Leeches, 60
Leioididae, 77
Leiopisma, 36
Leiopelma, 38
Leiostyla, 53
Lemur, 4
Lentipes, 48
Leontopithecus, 6
Lepidocephalus, 42
Lepidochelys, 34
Lepidochrysops, 89
Lepidomeda, 41
Lepidoptera, 84
Lepidostoma, 84
Lepidostomatidae, 84
Lepilemur, 4
Leporillus, 8
Leptobotia, 42
Leptoceridae, 84
Leptodea, 58
Leptogryllus, 72
Leptonemertes, 50
Leptoperla, 73
Leptothorax, 95
Leptotila, 22
Leptoxis, 51
Lestidae, 67

Lethe, 92
Leto, 84
Leucopeza, 31
Leucopsar, 32
Leucopternis, 18
Leucorrhinia, 70
Leuctra, 72
Leuctridae, 72
Lexingtonia, 58
Libelloides, 75
Libellula, 70
Libellulidae, 70
Libellulosoma, 69
Libythea, 90
Libytheidae, 90
Lice, 73
Lichnanthe, 78
Limnebius, 77
Limnephilus, 84
Limnodromus, 21
Limulidae, 60
Limulus, 60
Linyphiidae, 61
Lioptilus, 29
Lipotes, 9
Lirceus, 63
Lithasia, 51
Lithoglyphus, 51
Lithophane, 95
Lizards, 35
Lobsters, 65
Longhorn Beetles, 80
Lophophrus, 19
Lophura, 19
Loxioides, 31
Loxodonta, 12
Loxops, 31
Lucania, 45
Lucanidae, 77
Luehdorfia, 86
Lutodrilidae, 60
Lutodrilus, 60
Lutra, 10
Lycaeides, 89
Lycaena, 89
Lycaenidae, 88
Lycaon, 10
Lycosa, 61
Lycosidae, 61
Lygaeidae, 74
Lymnaea, 52
Lymnaeidae, 52
Lyperobius, 81
Lytta, 80

Macaca, 6
Machiloides, 66
Macrancylus, 81

Macrobaenetes, 71
Macrobanetes, 71
Macrocephalon, 18
Macroderma, 4
Macrodonatia, 80
Macrogalidia, 10
Macromia, 70
Macromiidae, 70
Macropus, 2
Macroscincus, 36
Macrosphenus, 29
Macrothele, 61
Macrotis, 8
Macroveliidae, 73
Maculinea, 89
Madtoms, 43
Magiicada, 75
Malacocheirus, 34
Malaconotus, 27
Malimbus, 32
Malpulutta, 48
Manatees, 12
Manduca, 94
Mantidae, 70
Mantispa, 75
Mantispidae, 75
Mantodea, 70
Margaritifera, 59
Margaritiferidae, 59
Margaronia, 93
Marmota, 8
Marstonia, 51
Martins, 27
Masticophis, 37
Mayflies, 66
Mecistogaster, 68
Meda, 41
Megachilidae, 96
Megacolabus, 81
Megalagrion, 68
Megalonaias, 58
Megalurus, 29
Megapodagrionidae, 67
Megapodes, 18
Megapodius, 18
Megaptera, 9
Megascolecidae, 60
Megascolides, 60
Megathymidae, 86
Megupsilon, 45
Melaenornis, 29
Melamprosops, 31
Melanerpes, 25
Melanosuchus, 35
Melignomon, 25
Meliphaga, 30
Meloidae, 80
Melospiza, 30

Index

- Melursus, 10
Menidia, 46
Mergus, 17
Merostomata, 60
Merulaxis, 26
Merycomyia, 82
Mesitornis, 20
Mesodon, 55
Mesogastropoda, 50
Mesoveliidae, 73
Meta, 61
Metabolus, 29
Metacnemis, 67
Metapogon, 82
Metatrichoniscooides, 63
Metisella, 85
Metranga, 74
Mexilana, 62
Mexipyrgus, 51
Mexistenasellus, 63
Mexithauma, 51
Mice, 8
Micrarionta, 56
Micraspides, 62
Microcebus, 5
Microchaetidae, 60
Microchaetus, 60
Microcreagris, 61
Microcryptorhynchus, 8
Microcyloopus, 79
Micronaspis, 80
Micropanchax, 45
Micropterus, 46
Microscolex, 60
Microtus, 8
Miloderes, 81
Minnows, 40
Miraфра, 27
Miridae, 74
Mistichthys, 48
Mixogaster, 82
Moapa, 41
Modulatrix, 29
Moho, 30
Mollusca, 50
Monachus, 11
Monadenia, 56
Monardithemis, 70
Mongooses, 10
Monias, 20
Monkeys, 5
Monticola, 29
Morimus, 80
Mormolyce, 76
Morphnus, 18
Mortonagrion, 68
Moschus, 13
Moss Beetles, 77
Moth Flies, 82
Moths, 84
Moxostoma, 42
Mudminnows, 43
Muntiacus, 14
Muscicapa, 29
Mussels, 57
Mustela, 10
Mutillidae, 95
Myadestes, 29
Myaka, 48
Mycotrupes, 78
Mycteria, 17
Mylothris, 88
Myotis, 4
Myrmecobius, 3
Myrmecophaga, 7
Myrmeleon, 75
Myrmeleontidae, 75
Myrmica, 95
Myrmosula, 95
Myrmotherula, 26
Myxas, 52
Naja, 37
Nannopterum, 16
Nasalis, 6
Naucorid Bugs, 73
Naucoridae, 73
Nectarinia, 30
Nectophrynooides, 39
Necydalis, 80
Neduba, 71
Nematostella, 49
Nemertea, 50
Nemertine Worms, 50
Nemopalpus, 82
Nemosia, 30
Nemouridae, 72
Nemours, 72
Neobisiidae, 61
Neochanna, 44
Neodrepanis, 26
Neofelis, 11
Neomorphus, 23
Neophema, 23
Neospiza, 30
Neothramma, 84
Neotragus, 15
Neotrichia, 83
Nephropidae, 65
Nephrops, 65
Neptulidae, 84
Neptis, 93
Nerodia, 36
Neseis, 74
Nesidiolestes, 74
Nesillas, 29
Nesithmysus, 80
Nesocichla, 29
Nesocryptias, 74
Nesoenas, 22
Nesolagus, 8
Nesomantis, 39
Nesomimesa, 96
Nesomimus, 28
Nesoprosopis, 96
Nesorestias, 74
Nesosydne, 74
Nesothauma, 75
Nesotocus, 81
Netta, 17
Neurocordulia, 69
Neuroptera, 75
Newtonia, 29
Nicrophorus, 77
Ninox, 24
Nipponia, 17
Noctuidae, 94
Noeneura, 67
Nososticta, 67
Notarthrinus, 89
Nothaldonis, 81
Nothomyrmecia, 95
Notiomystis, 30
Notomys, 8
Notopterus, 40
Notornis, 20
Notropis, 41
Noturus, 43
Novumbra, 43
Numenius, 21
Nuthatches, 30
Nymphalidae, 92
Nymphophilus, 51
Nysius, 74
Obovaria, 58
Oceanides, 74
Ochrotrichia, 83
Ochthebius, 77
Oclandius, 81
Odobenus, 11
Odocoileus, 14
Odonata, 67
Odontoceridae, 84
Odontophorus, 19
Odynerus, 95
Oecanthus, 72
Oecetis, 84
Oedemasyllus, 81
Oedura, 35
Oeoblia, 93
Ogmodon, 37
Ognorhynchus, 23
Oliarces, 75
Oliarus, 74
Oligochaeta, 60
Oligoneuridae, 66
Oligophlebodes, 84
Onchobarus, 81
Onthophagus, 78
Onychogalea, 2
Onychophora, 96
Oodemias, 81
Ophiogomphus, 69
Opiliones, 62
Optioservus, 79
Oravelia, 73
Orchestiidae, 64
Orconectes, 65
Oreodaimon, 42
Oreohelicidae, 55
Oreohelix, 55
Oreolyce, 89
Oreophasis, 19
Orestias, 45
Ornipholidotus, 89
Ornithoptera, 86
Ortalis, 19
Orthetrum, 70
Orthoptera, 71
Oryctes, 78
Oryx, 15
Oryzomys, 8
Osmerus, 44
Osmoderma, 78
Osteolaemus, 35
Otters, 10
Otus, 24
Ovis, 15
Owls, 23
Oxychaeta, 89
Oxyethira, 83
Oxygastra, 69
Oxyloma, 54
Oystercatchers, 21
Oysters, 57
Ozotoceros, 14
Pachycoccyx, 23
Pacifastacus, 65
Paddlefish, 40
Paduniella,
Palaemonetes, 65
Palaemonias, 65
Palaemonidae, 65
Paleoxenus, 79
Palinuridae, 66
Palmeria, 31
Palpopleura, 70
Paludiscala, 51
Pan, 7
Panchala, 89

- Panda, 10
Pangasianodon, 43
Pangasius, 43
Panoquina, 85
Pantagenia, 67
Panthera, 11
Pantinonemertes, 50
Panulirus, 66
Papilio, 87
 Papilionidae, 86
Papio, 7
Papustyla, 55
Paracentrotus, 96
Paracoenia, 83
Paracymus, 77
Paradoxornis, 29
Parakeets, 23
Paranaspides, 62
Parantica, 91
Parapinnixa, 66
Pararge, 92
 Parastacidae, 65
Paravitrea, 55
Pardosa, 61
Pareudiastes, 20
Parides, 87
Parnassius, 87
Paroreomyza, 31
 Parrotfinches, 22
Parrots, 22
Partula, 53
 Partulidae, 53
Partulina, 52
Paryphanta, 54
Pavo, 19
 Peafowls, 19
 Pearlfish, 45
Pegias, 58
Pelecanus, 16
Pelobates, 39
Pelocoris, 73
 Peltoperlidae, 73
Peltotrupes, 78
Penelope, 19
Pentalagus, 8
Pentarthrum, 81
Perameles, 3
Perca, 47
Percina, 47
Perdicella, 53
Perdita, 96
Perdix, 19
Peridroma, 95
 Peripatidae, 96
 Peripatosidae, 96
 Peripatus, 96
 Perlidae, 73
 Petrels, 16
Petrochroa, 85
Petrogale, 2
Petroica, 29
Pezoparus, 23
Phaeognathus, 38
Phaeornis, 29
Phaethornis, 24
Phalacrocorax, 16
Phalanger, 2
 Phalangodidae, 62
Phalanta, 93
Phallostethus, 46
Phaner, 5
Pharomacrus, 24
Phascogale, 3
 Phasmatidae, 72
 Phasmatoptera, 72
 Pheasants, 19
Phelsuma, 35
Phenacobius, 42
Philanthus, 96
Phildoria, 85
Philocasca, 84
 Philopotamidae, 83
Philoria, 39
Philotiella, 89
Phoca, 11
Phocoena, 9
Phodilus, 23
Photuris, 80
Phoxinus, 42
Phrynops, 34
Phrynosoma, 36
Phyciodes, 93
Phyllastrephus, 27
Phyllococcus, 75
Phyllodesma, 94
Phylolestes, 70
Physa, 52
 Physidae, 52
Picathartes, 29
Picoides, 25
Picus, 25
 Pieridae, 88
Pieris, 88
 Pigeons, 21
Pinctada, 57
 Pinnotheridae, 66
Pipile, 19
Pisidium, 59
Pithecophaga, 18
Pitta, 26
Pitymys, 8
Placostylus, 54
Plagiodontia, 9
Plagithmysus, 80
Plagopterus, 42
 Planaria, 49
 Planorbidae, 52
 Planthoppers, 74
Platanista, 9
Platemys, 33
 Platycnemididae, 67
Platycnemis, 67
 Platyhelminthes, 49
Platysteira, 29
Plebejus, 89
Plebicula, 89
 Plecoptera, 72
Plecotus, 4
Plethobasus, 58
Plethodon, 38
Pleurobema, 58
 Pleuroceridae, 51
 Plexauridae, 49
Ploceus, 32
 Plovers, 21
Podarcis, 36
Podiceps, 15
Podilymbus, 16
Podocnemis, 34
Podogymnura, 3
Poeciliopsis, 46
Poecilmitis, 89
Pogonichthys, 42
Pogoniulus, 25
Polposipus, 80
Polychaeta, 59
Polyergus, 95
Polygra, 55
 Polygyridae, 55
Polygyriscus, 55
 Polyhymenophorea, 49
Polylamina, 78
Polyodon, 40
Polyphylla, 78
Polyplectron, 19
Polystictus, 26
Pomarea, 29
Pongo, 7
Potamilus, 59
Potorous, 2
Presbytis, 7
Prietella, 43
Prinia, 29
Priodontes, 7
Prionailurus, 11
Prionops, 27
Pristoceuthophilus, 71
Probarbus, 42
Problema, 85
Procambarus, 65
Procellaria, 16
Procnias, 26
Procolobus, 7
Prodontria, 78
Progomphus, 69
Prolagus, 7
Propithecus, 5
Proserpinus, 94
Prosobonia, 21
 Prosorhochmidae, 50
Proterhinus, 80
Proteus, 38
 Protoneuridae, 67
Protoploea, 91
Protoptila, 83
Prototroctes, 43
 Psammaspidae, 62
Psammobates, 34
 Psephenidae, 79
Psephenus, 79
Psephotus, 23
Pseudacris, 39
Pseudemydura, 35
Pseudemys, 33
Pseudibis, 17
Pseudiolaus, 89
Pseudirion, 66
Pseudocalyptomena, 25
Pseudochelidon, 27
 Pseudococcidae, 75
Pseudocopaesodes, 86
Pseudocotalpa, 78
Pseudomys, 8
Pseudonestor, 31
Pseudopsectra, 75
 Pseudoscorpionida, 61
 Pseudostigmatidae, 68
Psilotreta, 84
Psittacula, 23
Psittirostra, 31
Psophodes, 29
 Psychodidae, 82
Psychomastix, 72
 Pteriidae, 57
 Pterioida, 57
Pterocnemia, 15
Pterodroma, 16
Pteronura, 10
Pteropus, 4
Ptilinopus, 22
Ptychocheilus, 42
Pudu, 14
Puffinus, 16
Pungu, 48
 Pupfish, 45
 Pupillidae, 53
Pygathrix, 7
 Pyralidae, 93
Pyreferra, 95
Pyrglena, 26
Pyrrhula, 23
Python, 37

Index

- Pyxis, 34
- Quadrula, 59
- Quails, 19
- Quetzals, 24
- Rabbits, 8
- Rails, 20
- Rallus, 20
- Ramphocinclus, 28
- Rana, 39
- Raphiomydas, 82
- Rasbora, 42
- Rats, 8
- Rattlesnakes, 37
- Redfins, 40
- Reduviidae, 74
- Regulus, 29
- Reithrodontomys, 8
- Relictus, 42
- Rhaphidophoridae, 71
- Rheas, 15
- Rheinardia, 19
- Rheobatrachus, 39
- Rhinichthys, 42
- Rhinoceros, 12
- Rhinoceros, 12
- Rhinoclemmys, 33
- Rhinopithecus, 7
- Rhinoplax, 25
- Rhopalid Bugs, 74
- Rhopalidae, 74
- Rhopornis, 26
- Rhyacophila, 83
- Rhyacophilidae, 83
- Rhynchopsitta, 23
- Rhyncogonus, 81
- Rhynochetos, 20
- Rhytididae, 54
- Riekoperla, 73
- Riffle Beetles, 79
- Rivulus, 44
- Roaches, 70
- Robberflies, 82
- Robins, 28
- Rollers, 25
- Romanichthys, 47
- Romankenkius, 49
- Romerolagus, 8
- Rosalia, 81
- Rostrhamus, 18
- Rowettia, 31
- Rukia, 30
- Rupicapra, 15
- Saga, 71
- Saguinus, 6
- Saimiri, 5
- Salamanders, 38
- Salamis, 93
- Salanoia, 10
- Salmo, 44
- Salvelinus, 44
- Samoana, 53
- Sanzinia, 37
- Sapheopipo, 25
- Sarotherodon, 48
- Sarothrura, 20
- Sasakia, 93
- Satan, 43
- Saturnia, 94
- Saturniidae, 94
- Satyridae, 91
- Satyrodes, 93
- Saxicola, 29
- Scaphirhynchus, 40
- Scarab Beetles, 77
- Scarabaeidae, 78
- Scavenger Beetles, 77
- Schoutedenapus, 24
- Sciurus, 8
- Sclerodermus, 95
- Scleropages, 40
- Scotopelia, 24
- Scotorythra, 94
- Sculpins, 46
- Scytalopus, 26
- Sea Anemones, 49
- Sea Fans, 49
- Sea Slugs, 52
- Sea Urchins, 96
- Seals, 11
- Seed Bugs, 74
- Segmentina, 52
- Selenarctos, 10
- Semnornis, 25
- Semotilis, 42
- Serica, 78
- Sericostomatidae, 84
- Serins, 31
- Serinus, 31
- Sesiidae, 85
- Sheep, 14
- Sheppardia, 29
- Shijimiaeoides, 89
- Shiners, 41
- Shrikes, 27
- Shrimps, 62, 65
- Siacella, 74
- Sicydium, 48
- Silphidae, 77
- Simias, 7
- Simpsonichthys, 45
- Simpsoniconcha, 59
- Siphonuridae, 66
- Sitta, 30
- Skiffia, 46
- Skinks, 36
- Skippers, 85
- Slugs, 54
- Smelt, 44
- Smerina, 93
- Sminthopsis, 3
- Snails, 50
- Snipe, 21
- Solenodon, 3
- Soliperla, 73
- Somatochlora, 69
- Somatogyrus, 51
- Sonorella, 56
- Sooglossus, 39
- Sosippus, 61
- Spanglerogyrus, 76
- Sparrows, 30
- Speirops, 30
- Spelaeorchestia, 64
- Speocirolana, 62
- Speoplatyrhinus, 44
- Speothos, 10
- Speyeria, 93
- Sphaeriidae, 59
- Sphaeroderus, 76
- Sphaeromatidae, 63
- Sphalloplana, 49
- Spharagemon, 72
- Sphecidae, 96
- Sphenodon, 35
- Spheterista, 85
- Sphingidae, 94
- Spiders, 61
- Spindasis, 90
- Spinedace, 41
- Spinus, 31
- Spizocorys, 27
- Splittails, 42
- Spongillaflies, 75
- Sporophila, 31
- Springfish, 44
- Stactolaema, 25
- Stag Beetles, 77
- Stagnicola, 52
- Stallingsia, 86
- Starlings, 32
- Stenasellidae, 63
- Stenasellids, 63
- Stenelmis, 79
- Stenodus, 44
- Stenopelmatidae, 71
- Stenopelmatius, 71
- Stenophysa, 52
- Stenotrema, 55
- Stenotrupidis, 81
- Stentor, 49
- Stentoridae, 49
- Sterkia, 53
- Sterna, 21
- Sternotherus, 34
- Stick-insects, 72
- Stilts, 21
- Stiobia, 51
- Stomatepia, 48
- Stoneflies, 72
- Stonemyia, 82
- Storks, 17
- Strepera, 32
- Streptaxidae, 54
- Streptopelia, 22
- Strider Bugs, 73
- Strigops, 23
- Strombas, 52
- Strombidae, 52
- Strymon, 90
- Sturgeon, 40
- Stygionympha, 92
- Stygobromus, 63
- Stylommatophora, 52
- Stypodon, 42
- Styrulus, 69
- Succineidae, 54
- Suckers, 42
- Sula, 16
- Sunbirds, 30
- Sus, 13
- Swallows, 27, 32
- Swallowtails, 87
- Swifts, 24
- Swynnertonia, 29
- Sympetrum, 70
- Synanthedon, 85
- Syncaris, 65
- Synlestidae, 70
- Syrichthus, 86
- Syrmaticus, 19
- Syrphidae, 82
- Tabanid Flies, 82
- Tabanidae, 82
- Tachybaptus, 16
- Tachycnemis, 39
- Tachypleus, 60
- Taeniopterygidae, 72
- Taeniopteryx, 72
- Tamarins, 6
- Tanagers, 30
- Tanakia, 42
- Tangara, 31
- Tapaculo, 26
- Taphius, 52
- Tapirs, 12
- Tapirus, 12
- Tarantulas, 60
- Tarsius, 5

- Tasmanophlebia, 66
Tauraco, 23
Taurotragus, 15
Teinobasis, 68
Teinopalpus, 88
Telega, 61
 Telemidae, 61
 Tenebrionidae, 80
 Terns, 21
Terpsiphone, 29
Terrapene, 33
 Terrapins, 33
Testudo, 34
Tetrao, 19
 Tetrigidae, 72
Tetrix, 72
Tettigidea, 72
 Tettigoniidae, 71
Thaanumia, 53
Thamnophis, 37
Thaumatibis, 17
Thaumatodon, 54
Thaumatogryllus, 72
 Theraphosidae, 61
Thermosphaeroma, 63
Thestor, 90
Thinornis, 21
 Thoracica, 62
 Thread Bugs, 74
Threnetes, 24
Threskiornis, 17
 Thrushes, 29
Thylacinus, 3
 Thysanura, 66
Tiaroga, 42
 Tiger Beetles, 76
Tigrisoma, 17
 Tinamou, 15
Tinamus, 15
Tinostoma, 94
Tiradelphe, 91
Tirumala, 91
Tischeria, 84
 Tischeriidae, 84
 Toads, 39
Tokudaia, 8
Tolypeutes, 7
Tomistoma, 35
 Torrent Midges, 82
Torreornis, 31
 Tortoises, 33
 Tortricidae, 85
Totoaba, 47
Touit, 23
Toxolasma, 59
Tragopan, 19
 Treader Bugs, 73
 Tree Snails, 53
Tremarctos, 10
 Tremblers, 28
Treron, 22
Triaenodes, 84
Trichechus, 12
Trichocichla, 29
Tricholimnas, 20
 Trichoniscidae, 63
 Trichoptera, 83
 Tricladida, 49
Tridacna, 59
 Tridacnidae, 59
Trigonopelastes, 78
Trigonoscuta, 82
Trimenia, 90
Tringa, 21
Triodopsis, 55
Trionyx, 35
Trithemis, 70
Tritocleis, 94
Tritogenia, 60
 Tritons, 52
 Troglidae, 77
Trogodytes, 28
Trogloglanis, 43
Troglophantes, 61
Troides, 88
 Trout, 44
Trox, 77
Tryonia, 51
Tsitana, 86
 Tuatara, 35
 Turacos, 23
 Turbellaria, 49
 Turbinidae, 50
Turbo, 50
Turdoides, 29
Turdus, 29
 Turtles, 33
Tylognathus, 42
Tympanuchus, 19
Typhaeus, 78
Typhlatva, 65
Typhlomolge, 38
Typhlops, 37
Typhlotriton, 38
Tyto, 23
Udeina, 60
 Umbrellabirds, 26
Unas, 82
 Unionidae, 57
 Unionoidea, 57
 Uniramia, 66
Uranothauma, 90
Uratelornis, 25
Urothemis, 70
Ursus, 10
Utabaenetes, 71
Valvata, 50
 Valvatidae, 50
Vanellus, 21
Varanus, 37
Varecia, 4
 Veneroidea, 59
Vermivora, 31
 Vertiginidae, 53
Vertigo, 53
Vespericola, 55
 Vespidae, 95
Vicugna, 13
 Vicunas, 13
Villosa, 59
Vini, 22
Vipera, 37
 Vipers, 37
Viverra, 10
 Voles, 8
 Wallabies, 2
 Warblers, 28, 31
 Wasps, 95
 Water Beetles, 76
 Weavers, 32
 Weevils, 81
 Weta, 71
 Whales, 9
 Whipbirds, 29
 Whirligig Beetles, 77
 White-eyes, 30
 Whitefish, 44
Williamsonia, 70
 Wolves, 10
 Woodpeckers, 25
 Worms, 59
 Wrens, 28
Xantusia, 35
Xenicus, 26
Xenoporphus, 46
Xenopirostris, 27
Xenopus, 38
Xeromys, 8
Xipholena, 26
Xiphophorus, 46
Xiphosura, 60
Xylotoles, 81
Xyrauchen, 42
 Yellowbrows, 28
Ypthima, 92
Zaglossus, 2
Zaitzeva, 79
Zalophus, 11
Zavattariornis, 33
 Zebras, 12
Zelotypia, 84
 Zonitidae, 55
Zoothera, 30
 Zoraptera, 73
 Zorotypidae, 73
Zorotypus, 73
Zosterops, 30
Zyzomys, 8



Prepared with financial support from the World Wildlife Fund International and the United Nations Environment Programme, and published with a grant from World Wildlife Fund UK.

A contribution to GEMS – the Global Environment Monitoring System.



This book is part of
THE IUCN CONSERVATION LIBRARY

For a free copy of the complete catalogue please write to:
IUCN Publications Services,
210 Huntingdon Road, Cambridge CB3 0DL, UK
or Avenue de la Paix 11, Case Postale 26,
CH-1196 Gland, Switzerland