


1986 IUCN Red List of Threatened Animals





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**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.

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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

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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

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- 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

Long-beaked Echidna

V New Guinea

Order MARSUPIALIA

Family Macropodidae

Bettongia lesueur

Bettongia penicillata

Caloprymnus campestris

Dendrolagus dorianus notatus

Dendrolagus goodfellowi shawmayeri

Dorcopsis atrata

Dorcopsulus macleayi

Lagorchestes asomatus

Lagorchestes hirsutus

Lagorchestes leporides

Lagostrophus fasciatus

Macropus greyi

Onychogalea fraenata

Onychogalea lunata

Petrogale sp. nov.

Potorous longipes

Potorous 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 Nailtail Wallaby
Crescent Nailtail 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 interpositus

Phalanger lullulae

Phalanger 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

Lasiorhinus krefftii

Northern Hairy-nosed Wombat

E Australia

Family Peramelidae

<u>Chaeropus ecaudatus</u>	Pig-footed Bandicoot	Ex	[Australia]
<u>Echymipera clara</u>	White-Lipped Bandicoot	R	New Guinea
<u>Perameles bougainville</u>	Western Barred Bandicoot	R	Australia
<u>Perameles eremiana</u>	Desert Bandicoot	Ex	[Australia]

Family Thylacomyidae

<u>Macrotis lagotis</u>	Greater Bilby	E	Australia
<u>Macrotis leucura</u>	Lesser Bilby	Ex	[Australia]

Family Dasyuridae

<u>Antechinus apicalis</u>	Dibbler	I	Australia
<u>Phascogale calura</u>	Red-tailed Phascogale	I	Australia
<u>Sminthopsis douglasi</u>	Julia Creek Dunnart	I	Australia
<u>Sminthopsis longicaudata</u>	Long-tailed Dunnart	K	Australia
<u>Sminthopsis psammophila</u>	Sandhill Dunnart	K	Australia

Family Myrmecobiidae

<u>Myrmecobius fasciatus</u>	Numbat	E	Australia
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Family Thylacinidae

<u>Thylacinus cynocephalus</u>	Thylacine	Ex	[Australia]
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Order INSECTIVORA

Family Solenodontidae

<u>Solenodon cubanus</u>	Cuban Solenodon	E	Cuba
<u>Solenodon paradoxus</u>	Haitian Solenodon	E	Hispaniola

Family Chrysochloridae

<u>Amblysomus julianae</u>	Juliana's Golden Mole	R	South Africa
<u>Chrysospalax trevelyani</u>	Giant Golden Mole	E	South Africa

Family Erinaceidae

<u>Podogymnura truei</u>	Mindanao Gymnure	V	Philippines
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Family Talpidae

<u>Desmana moschata</u>	Russian Desman	V	U.S.S.R.
<u>Galemys pyrenaicus</u>	Pyrenean Desman	V	France, Portugal, Spain

Family Soricidae

<u>Crocidura maquassiensis</u>	Maquassie Musk Shrew	R	South Africa, Zimbabwe
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Family Cheirogaleidae

- Allocebus trichotis
- Microcebus coquereli
- Phaner furcifer

Family Indridae

- Avahi laniger
- Indri indri
- Propithecus diadema
- Propithecus verreauxi

Family Daubentoniidae

- Daubentonia madagascariensis

Family Tarsiidae

- Tarsius bancanus borneanus
- Tarsius syrichta

Family Cebidae

- Alouatta fusca
- Alouatta villosa
- Ateles belzebuth
- Ateles fusciceps
- Ateles geoffroyi
- Ateles paniscus
- Brachyteles arachnoides
- Cacajao calvus
- Cacajao melanocephalus
- Callicebus personatus
- Chiropotes albinasus
- Chiropotes satanas satanas
- Lagothrix flavicauda
- Lagothrix lagothricha
- Saimiri oerstedii

Family Callitrichidae

- Callimico goeldii
- Callithrix argentata leucippe
- Callithrix aurita
- Callithrix flaviceps
- Callithrix humeralifer

Hairy-eared Dwarf Lemur	E	Madagascar
Coquerel's Dwarf Lemur	K	Madagascar
Fork-marked Lemur	K	Madagascar
Woolly Lemur	K	Madagascar
Indris	E	Madagascar
Diademed Sifaka	V	Madagascar
Verreaux's Sifaka	K	Madagascar
Aye-aye	E	Madagascar
Bornean Tarsier	I	Borneo
Philippine Tarsier	E	Philippines
Brown Howler Monkey	I	Bolivia, Brazil
Guatemalan Black Howler Monkey	I	Belize, Guatemala, Mexico
Long-haired Spider Monkey	V	South America
Brown-headed Spider Monkey	I	Colombia, Ecuador, Panama
Geoffroy's Spider Monkey	V	Central America, Mexico
Black Spider Monkey	V	South America
Woolly Spider Monkey	E	Brazil
Red & White Uakari	V	Brazil, Colombia, Peru
Black-headed Uakari	V	Brazil, Colombia, Venezuela
Masked Titi	V	Brazil
White-nosed Saki	V	Brazil
Southern Bearded Saki	E	Brazil
Yellow-tailed Woolly Monkey	E	Ecuador, Peru
Woolly Monkey	V	South America
Central American Squirrel Monkey	E	Costa Rica, Panama
Goeldi's Marmoset	R	South America
White Marmoset	V	Brazil
Buffy-tufted-ear Marmoset	E	Brazil
Buffy-headed Marmoset	E	Brazil
Tassel-eared Marmoset	V	Brazil

Leontopithecus rosalia
Leontopithecus chrysomelas
Leontopithecus chrysopygus
Saguinus bicolor
Saguinus imperator
Saguinus leucopus
Saguinus oedipus oedipus

Golden Lion Tamarin
Golden-headed Lion Tamarin
Golden-rumped Lion Tamarin
Bare-faced Tamarin
Emperor Tamarin
White-footed Tamarin
Cotton-top Tamarin

E Brazil
E Brazil
E Brazil
I Brazil, Peru
I Bolivia, Brazil, Peru
V Colombia
E Colombia

Family Cercopithecidae

Allenopithecus nigroviridis
Cercocebus aterrimus
Cercocebus galeritus galeritus
Cercocebus torquatus
Cercopithecus diana
Cercopithecus dryas
Cercopithecus erythrogaster
Cercopithecus erythrotis
Cercopithecus hamlyni
Cercopithecus hoesti
Cercopithecus preussi
Cercopithecus salongo
Colobus badius badius
Colobus badius bouvieri
Colobus badius foai
Colobus badius gordonorum
Colobus badius kirkii
Colobus badius oustaleti
Colobus badius pennanti
Colobus badius preussi
Colobus badius temminckii
Colobus badius tephrosceles
Colobus badius rufomitratu
Colobus badius waldroni
Colobus satanas
Macaca pagensis
Macaca silenus
Macaca sylvanus
Nasalis larvatus
Papio leucophaeus
Papio sphinx

Allen's Swamp Monkey
Black Mangabey
Tana River Mangabey
Collared Mangabey
Diana Monkey
Dryas Guenon
White-throated Guenon
Russet-eared Guenon
Owl-faced Guenon
L'hoest's Monkey
Preuss's Guenon
Salongo Guenon
Bay Colobus
Bouvier's Red Colobus
Foa Red Colobus
Uhehe Red Colobus
Zanzibar Red Colobus
Oustalet's Red Colobus
Pennant's Red Colobus
Preuss's Red Colobus
Western Red Colobus
Uganda Red Colobus
Tana River Red Colobus
Miss Waldron's Bay Colobus
Black Colobus
Mentawai Islands Macaque
Lion-tailed Macaque
Barbary Macaque
Proboscis Monkey
Drill
Mandrill

K Congo, Zaire
K Angola, Zaire
E Kenya
V West Africa
V West Africa
K Zaire
V Benin, Nigeria
V Cameroon, Fernando Po, Nigeria
K Rwanda, Uganda, Zaire
V Burundi, Rwanda, Uganda, Zaire
V Cameroon, Fernando Po, Nigeria
K Zaire
V West Africa
K Congo
K Zaire
E Tanzania
E Zanzibar
K Sudan, Zaire
V Fernando Po
E Cameroon
K West Africa
K East Africa
E Kenya
E Ghana, Ivory Coast
V Cameroon, Congo, Eq. Guinea, Gabon
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E India
V Algeria, Gibraltar*, Morocco
V Borneo
E Cameroon, Fernando Po, Nigeria
V Cameroon, Congo, Eq. Guinea, Gabon

Presbytis geei
Presbytis johni
Procolobus potenzi
Pygathrix nemaeus
Rhinopithecus roxellanae
Simias concolor

Family Hylobatidae

Hylobates concolor
Hylobates klossi
Hylobates moloch
Hylobates pileatus

Family Pongidae

Gorilla gorilla
Gorilla gorilla beringei
Pan paniscus
Pan troglodytes
Pongo pygmaeus

Order EDENTATA

Family Myrmecophagidae

Myrmecophaga tridactyla

Family Bradypodidae

Bradypus torquatus

Family Dasypodidae

Clamyphorus retusus
Chlamyphorus truncatus
Priodontes giganteus
Isotypeutes trinctus

Order LAGOMORPHA

Family Ochotonidae

Prolagus sardus

Golden Langur	R	Bhutan, India
Nilgiri Langur	V	India
Mentawai Islands Langur	I	Mentawai Is
Olive Colobus	R	West Africa
Douc Langur	E	China, Laos, Vietnam
Snub-nosed Langur	R	China
Pig-tailed Langur	E	Mentawai Is
Black Gibbon	I	China, Indochina
Kloss's Gibbon	V	Mentawai Is
Javan Gibbon	E	Indonesia
Pileated Gibbon	E	Indochina, Thailand
Gorilla	V	Equatorial Africa
Mountain Gorilla	E	Rwanda, Uganda, Zaire
Pygmy Chimpanzee	V	Zaire
Chimpanzee	V	Equatorial Africa
Orang-utan	E	Borneo, Sumatra
Giant Anteater	V	Central & South America
Maned Sloth	E	Brazil
Burmeister's Armadillo	K	Argentina, Bolivia, Paraguay
Pink Fairy Armadillo	K	Argentina
Giant Armadillo	V	South America
Brazilian Three-banded Armadillo	I	Brazil
Sardinian Pika	Ex	[Sardinia, Corsica]

Mammals

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

- Utah Prairie Dog
- Vancouver Island Marmot
- Menzbier's Marmot
- Delmarva Fox Squirrel

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

- Dipodomys elator
- Dipodomys heermanni morroensis

- Texas Kangaroo Rat
- Morro Bay Kangaroo Rat

- R U.S.A.
- E U.S.A.

Family Cricetidae

- Pitymys bavaricus
- Reithrodontomys raviventris

- Bavarian Pine Vole
- Salt-marsh Harvest Mouse

- 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

- V Arctic, North Atlantic Ocean & North Pacific Ocean

Family Balaenopteridae

- Balaenoptera musculus
- Balaenoptera physalus
- Megaptera novaeangliae

- E All Oceans
- V All Oceans
- E All Oceans

- Blue Whale
- Fin Whale
- Humpback Whale

Family Balaenidae

- Balaena mysticetus
- Eubalaena glacialis

- E Arctic Ocean
- E Temperate Seas

- Bowhead Whale
- Black Right Whale

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

Ailuropoda melanoleuca
Melursus ursinus
Selenarctos thibetanus gedrosianus
Tremarctos ornatus
Ursus arctos nelsoni
Ursus maritimus

Family Mustelidae

<u>Lutra felina</u>	Marine Otter	V	Chile, Peru, [Argentina]
<u>Lutra longicaudis</u>	La Plata Otter	V	South America
<u>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>Ateronura 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 musschenbroekii</u>	Ceibes Giant Palm Civet	R	Sulawesi
<u>Viverra megaspilla civettina</u>	Malabar Large Spotted Civet	E	India

Family Herpestidae

Galidictis fasciata
Salanoia concolor

Family Hyaenidae

<u>Hyaena brunnea</u>	Brown Hyaena	V	Southern Africa
<u>Hyaena hyaena barbara</u>	Barbary Hyaena	E	Algeria, Morocco, Tunisia

Family Felidae

<u>Acinonyx jubatus</u>	Cheetah	V	Africa, Middle East, Iran
<u>Acinonyx jubatus venaticus</u>	Asiatic Cheetah	E	Iran
<u>Felis badia</u>	Bornean Bay Cat	R	Borneo
<u>Felis caracal michaelis</u>	Turkmenian Caracal	R	U.S.S.R.
<u>Felis concolor coryi</u>	Florida Cougar	E	U.S.A.
<u>Felis concolor cougar</u>	Eastern Cougar	E	Canada, U.S.A.
<u>Felis jacobita</u>	Andean Cat	R	Andes
<u>Felis margarita scheffeli</u>	Pakistan Sand Cat	E	Pakistan
<u>Felis marmorata</u>	Marbled Cat	I	Asia
<u>Felis pardalis</u>	Ocelot	V	U.S.A., Central & South America
<u>Felis pardina</u>	Pardel Lynx	E	Portugal, Spain
<u>Felis planiceps</u>	Flat-headed Cat	I	South-east Asia
<u>Felis temmincki</u>	Asiatic Golden Cat	I	Asia
<u>Felis tigrina</u>	Little Spotted Cat	V	Central & South America
<u>Felis wiedii</u>	Margay	V	Central & South America
<u>Felis yagouaroundi</u>	Jaguarundi	I	U.S.A., Central & South America
<u>Neofelis nebulosa</u>	Clouded Leopard	V	Asia
<u>Panthera leo persica</u>	Asiatic Lion	E	India
<u>Panthera onca</u>	Jaguar	V	U.S.A., Central & South America
<u>Panthera pardus</u>	Leopard	V	Africa, Middle East, Asia
<u>Panthera tigris</u>	Tiger	E	Asia
<u>Panthera uncia</u>	Snow Leopard	E	Asia
<u>Prionailurus iriomotensis</u>	Iriomote Cat	E	Ryukyu Is

Order PINNIPEDIA

Family Otariidae

<u>Arctocephalus philippii</u>	Juan Fernandez Fur Seal	V	Chile
<u>Arctocephalus townsendi</u>	Guadalupe Fur Seal	V	Mexico, U.S.A.
<u>Odobenus rosmarus laptevi</u>	Laptev Walrus	K	U.S.S.R.
<u>Zalophus californianus japonicus</u>	Japanese Sea Lion	E	Japan, North & South Korea

Family Phocidae

<u>Monachus monachus</u>	Mediterranean Monk Seal	E	Mediterranean & Mauritanian coasts
<u>Monachus schauinslandi</u>	Hawaiian Monk Seal	E	Hawaii
<u>Monachus tropicalis</u>	Caribbean Monk Seal	Ex?	[Caribbean]
<u>Phoca hispida saimensis</u>	Saimaa Seal	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
- Trichechus manatus

Amazonian Manatee
Caribbean Manatee

V Amazon basin
V Caribbean & South American Coasts &
Rivers

- Trichechus senegalensis

West African Manatee

V West Africa

Order PERISSODACTYLA

Family Equidae

- Equus africanus
- Equus grevyi
- Equus hemionus
- Equus hemionus hemippus
- Equus hemionus khur
- Equus przewalskii
- Equus quagga
- Equus zebra hartmannae
- Equus zebra zebra

African Wild Ass
Grevy's Zebra
Asiatic Wild Ass
Syrian Wild Ass
Indian Wild Ass
Przewalski's Horse
Quagga
Hartmann's Mountain Zebra
Cape Mountain Zebra

E North Africa
E Ethiopia, Kenya, [Somalia]
V Asia
E Mesopotamia
E Pakistan
Ex? [China, Mongolia]
Ex [South Africa]
V Angola, Namibia
E South Africa

Family Tapiridae

- Tapirus bairdii
- Tapirus indicus
- Tapirus pinchaque

Central American Tapir
Malayan Tapir
Mountain Tapir

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

Family Rhinocerotidae

- Ceratotherium simum cottoni
- Diceros bicornis
- Didemnoceros sumatrensis
- Rhinoceros sondaicus
- Rhinoceros unicornis

Northern Square-lipped Rhinoceros
Black Rhinoceros
Sumatran Rhinoceros
Javan Rhinoceros
Great Indian Rhinoceros

E Zaire
E Africa
E South-east Asia
E Java
E India, Nepal

Order ARTIODACTYLA

Family Suidae

Babirusa
Sus babyrusa
Sus salvanius

Family Tayassuidae

Catagonus wagneri

Family Hippopotamidae

Choeropsis liberiensis

Family Camelidae

Camelus bactrianus
Vicugna vicugna

Family Cervidae

Axis calamianensis
Axis kuhli
Blastocerus dichotomus
Cervus albirostris
Cervus duvauceli
Cervus elaphus bactrianus
Cervus elaphus barbarus
Cervus elaphus corsicanus
Cervus elaphus hanglu
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)

Babirusa
Pygmy Hog

Chacoan Peccary

Pygmy Hippopotamus

Wild Bactrian Camel
Vicuna

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 Sulawesi
E [Bangladesh], India, Nepal

V Argentina, Bolivia, Paraguay

V West Africa

V China, Mongolia
V Andes

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

<u>Muntiacus crinifrons</u>	Black Muntjac	I	China
<u>Muntiacus feae</u>	Fea's Muntjac	E	Burma, Thailand
<u>Odocoileus hemionus cerrosensis</u>	Cedros Island Mule Deer	R	Mexico
<u>Odocoileus virginianus clavium</u>	Key Deer	R	U.S.A.
<u>Ozotoceros bezoarticus celer</u>	Argentinian Pampas Deer	E	Argentina
<u>Pudu mephistophiles</u>	Northern Pudu	I	Andes
Family Antilocapridae			
<u>Antilocapra americana peninsularis</u>	Lower California Pronghorn	E	Mexico
<u>Antilocapra americana sonoriensis</u>	Sonoran Pronghorn	E	Mexico, U.S.A.
Family Bovidae			
<u>Addax nasomaculatus</u>	Addax	E	Sahara/Sahel
<u>Aepyceros melampus petersi</u>	Black-faced Impala	E	Angola, Namibia
<u>Alcelaphus buselaphus swaynei</u>	Swayne's Hartebeest	E	Ethiopia, Somalia
<u>Alcelaphus buselaphus tora</u>	Tora Hartebeest	E	Egypt, Ethiopia, Sudan
<u>Ammodorcas clarkei</u>	Dibatag	V	Ethiopia, Somalia
<u>Ammotragus lervia</u>	Barbary Sheep	V	Sahara/Sahel
<u>Bos gaurus</u>	Gaur	V	South-east Asia
<u>Bos grunniens</u>	Wild Yak	E	Central Asia
<u>Bos javanicus</u>	Banteng	V	South-east Asia
<u>Bos sauveli</u>	Kouprey	E	Indochina
<u>Bubalus bubalis</u>	Wild Asiatic Water Buffalo	E	India, Nepal
<u>Bubalus depressicornis</u>	Lowland Anoa	E	Sulawesi
<u>Bubalus mindorensis</u>	Tamaraw	E	Philippines
<u>Bubalus quarlesi</u>	Mountain Anoa	E	Sulawesi
<u>Budorcas taxicolor bedfordi</u>	Golden Takin	R	China
<u>Budorcas taxicolor tibetana</u>	Szechwan Takin	I	China
<u>Capra falconeri</u>	Markhor	V	West Himalayas
<u>Capra falconeri megaceros</u>	Straight-horned Markhor	E	Afghanistan, Pakistan
<u>Capra pyrenaica pyrenaica</u>	Pyrenean Ibex	E	Spain
<u>Capra walie</u>	Walia Ibex	E	Ethiopia
<u>Capricornis sumatraensis sumatraensis</u>	Sumatran Serow	E	Sumatra
<u>Cephalophus adersi</u>	Ader's Duiker	V	Kenya, Tanzania, Zanzibar
<u>Cephalophus jentinki</u>	Jentink's Duiker	E	Ivory Coast, Liberia
<u>Cephalophus spadix</u>	Abbott's Duiker	K	Tanzania
<u>Cephalophus zebra</u>	Zebra Duiker	I	Ivory Coast, Liberia, Sierra Leone
<u>Damaliscus dorcas dorcas</u>	Bontebok	V	South Africa
<u>Damaliscus hunteri</u>	Hunter's Antelope	R	Kenya, Somalia, Tanzania
<u>Dorcatragus megalotis</u>	Beira Antelope	K	Djibouti, Ethiopia, Somalia

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

CLASS AVES

Order RHEIFORMES

Family Rheidae

Pterocnemia pennata tarapacensis

Order TINAMIFORMES

Family Tinamidae

Crypturellus saltuarius

Tinamus solitarius pernambucensis

Order PODICIPEDIFORMES

Family Podicipedidae

Podiceps andinus

Podiceps gallardoi

Podiceps taczanowskii

Colombian Grebe
Hooded Grebe
Junin Grebe

Ex [Colombia]
R Argentina
R Peru

Puna Rhea

E Eastern Andes

Magdalena Tinamou
Pernambuco Solitary Tinamou

I Colombia
E Brazil

<u>Podilymbus gigas</u>	Atitlan Grebe	E	Guatemala
<u>Tachybaptus pelzelni</u>	Madagascar Little Grebe	K	Madagascar
<u>Tachybaptus rufolavatus</u>	Alaotra Grebe	E	Madagascar
Order PROCELLARIIFORMES			
Family Diomedidae			
<u>Diomedea albatrus</u>	Short-tailed Albatross	E	Japan
<u>Diomedea amsterdamensis</u>	Amsterdam Albatross	E	Amsterdam I.
Family Procellariidae			
<u>Procellaria parkinsoni</u>	Black Petrel	E	Galapagos Is, New Zealand, South America
<u>Procellaria westlandica</u>	Westland Black Petrel	V	New Zealand, Australia
<u>Pterodroma aterrima</u>	Mascarene Petrel	E	Reunion, Rodrigues
<u>Pterodroma axillaris</u>	Chatham Island Petrel	E	Chatham Is
<u>Pterodroma cahow</u>	Cahow	E	Bermuda
<u>Pterodroma cookii cookii</u>	New Zealand Cook's Petrel	E	New Zealand, North & South America
<u>Pterodroma cookii</u>	Gon-gon	R	Desertas (Madeira), Cape Verde Is
<u>Pterodroma feae</u>	Black-capped Petrel	V	Haiti
<u>Pterodroma hypoleuca hasitata</u>	Gould's Petrel	R	New Zealand, Australia
<u>Pterodroma leucoptera leucoptera</u>	Macgillivray's Petrel	I	Fiji
<u>Pterodroma macgillivrayi</u>	Magenta Petrel	E	Chatham Is
<u>Pterodroma magentae</u>	Freira	R	Madeira
<u>Pterodroma madeira</u>	Dark-rumped Petrel	E	Hawaii, Galapagos Is, Central & South America
<u>Pterodroma phaeopygia</u>	Beck's Petrel	I	Solomon Is
<u>Pterodroma rostrata becki</u>	Heinroth's Shearwater	I	New Britain
<u>Puffinus heinrothi</u>	Newell's Shearwater	V	Hawaii
<u>Puffinus puffinus newelli</u>			
Order PELECANIFORMES			
Family Pelecanidae			
<u>Pelecanus crispus</u>	Dalmatian Pelican	V	South-east Europe, U.S.S.R., China
Family Sulidae			
<u>Sula abbotti</u>	Abbott's Booby	E	Christmas I. (Indian O.)
Family Phalacrocoracidae			
<u>Nannopterum harrisi</u>	Galapagos Flightless Cormorant	R	Galapagos Is
<u>Phalacrocorax c. carunculatus</u>	King Shag	R	New Zealand
Family Fregatidae			
<u>Fregata andrewsi</u>	Christmas Frigatebird	V	Christmas I. (Indian O.)
<u>Fregata aquila</u>	Ascension Frigatebird	R	Ascension I.

Order CICONIIFORMES

Family Ardeidae

Ardea humbloti
Egretta eulophotes
Egretta vinaceigula
Tigrisoma fasciatum fasciatum

Madagascar Heron
Chinese Egret
Slaty Egret
Fasciated Tiger-heron

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

Oriental White Stork
Storm's Stork
Milky Stork

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

Dwarf Olive Ibis
Southern Bald Ibis
Northern Bald Ibis

Japanese Crested Ibis
White-shouldered Ibis
Giant Ibis
Aldabra Sacred Ibis

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 "oustaleti"
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

New Zealand Brown Teal
Madagascar Teal
Laysan Duck
Marianas Mallard
Koloa
Tule White-fronted Goose
Madagascar Pochard
Aleutian Canada Goose
Nene
White-winged Wood Duck
Ruddy-headed Goose
West Indian Whistling Duck
Brazilian Merganser
Chinese Merganser
South American Pochard

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

California Condor

E California

Family Accipitridae

Accipiter fasciatus natalis

Accipiter francesii pusillus

Accipiter striatus fringilloides

Accipiter striatus venator

Aquila adalberti

Buteo galapagoensis

Buteo platypterus brunnescens

Buteo solitarius

Chondrohierax uncinatus mirus

Chondrohierax uncinatus wilsonii

Eutriorchis astur

Gyps coprotheres

Haliaeetus albicilla

Haliaeetus leucocephalus leucocephalus

Haliaeetus vociferoides

Harpia harpyja

Leucopternis occidentalis

Leucopternis polionota

Morphnus guianensis

Pithecophaga jefferyi

Rostrhamus sociabilis plumbeus

Christmas Brown Goshawk
Anjouan Sparrowhawk
Cuban Sharp-shinned Hawk
Puerto Rican Sharp-shinned Hawk
Spanish Imperial Eagle
Galapagos Hawk
Puerto Rican Broad-winged Hawk
Hawaiian Hawk
Grenada Hook-billed Kite
Cuban Hook-billed Kite
Madagascar Serpent Eagle
Cape Vulture
White-tailed Eagle
Southern Bald Eagle
Madagascar Fish Eagle
Harpy Eagle
Grey-backed Hawk
Mantled Hawk
Crested Eagle
Philippines Eagle
Florida Everglade Kite

R Christmas I. (Indian O.)
E Comoro Is
R Cuba
R Puerto Rico
E Spain, Portugal
R Galapagos Is
R Puerto Rico
R Hawaii
E Grenada
R Cuba
E Madagascar
R Southern Africa
V Palearctic
E U.S.A., Mexico
E Madagascar
R Central & South America
I Ecuador
I South America
R Central & South America
E Philippines
R U.S.A., Cuba

Family Falconidae

Falco newtoni alabranus

Falco peregrinus

Falco punctatus

Aldabra Kestrel
Peregrine Falcon
Mauritius Kestrel

R Aldabra
V Worldwide
E Mauritius

Order GALLIFORMES

Family Megapodiidae

Macrocephalon maleo

Megapodius laperouse

Maleo
Micronesian Megapode

V Indonesia
R Marianas & Palau Is

Family Cracidae

Aburria jacutinga
Crax alberti
Crax blumenbachii
Crax fasciolata pinima
Crax mitu mitu
Crax rubra griseomi
Oreophasis derbiana
Ortalis vetula deschauenseei
Penelope albipennis
Penelope perspicax
Pipile pipile pipile

Black-fronted Piping Guan
 Blue-billed Curassow
 Red-billed Curassow
 Northern Bare-faced Curassow
 Eastern Razor-billed Curassow
 Cozumel Curassow
 Horned Guan
 Utila Chachalaca
 White-winged Guan
 Cauca Guan
 Trinidad Piping Guan

E South America
 V Colombia
 E Brazil
 I Brazil
 E Brazil
 R Mexico
 E Guatemala, Mexico
 E Honduras
 E Peru
 E Colombia
 E Trinidad & Tobago

Family Phasianidae

Agelastes meleagrides
Catreus wallichii
Colinus virginianus ridgwayi
Crossoptilon crossoptilon
Crossoptilon mantchuricum
Francolinus camerunensis
Francolinus nahani
Francolinus ochropectus
Francolinus swierstrai
Lophophorus luuysii
Lophophorus sclateri
Lophura bulweri
Lophura edwardsi
Lophura imperialis
Lophura swinhoii
Odontophorus strophium
Pavo muticus
Perdix perdix italica
Polyplectron emphanum
Rheinardia ocellata
Symaticus ellioti
Symaticus humiae
Symaticus mikado
Tetrao urogallus cantabricus
Tragopan blythii
Tragopan caboti
Tragopan melanocephalus
Tympanuchus cupido attwateri

White-breasted Guineafowl
 Cheer Pheasant
 Masked Bobwhite Quail
 White Eared Pheasant
 Brown Eared Pheasant
 Mount Cameroon Francolin
 Nahan's Francolin
 Djibouti Francolin
 Swierstra's Francolin
 Chinese Monal
 Sclater's Monal
 Bulwer's Wattled Pheasant
 Edward's Pheasant
 Imperial Pheasant
 Swinhoe's Pheasant
 Gorgeted Wood Quail
 Green Peafowl
 Italian Grey Partridge
 Palawan Peacock Pheasant
 Crested Argus Pheasant
 Elliot's Pheasant
 Hume's Bar-tailed Pheasant
 Mikado Pheasant
 Cantabrian Capercaillie
 Blyth's Tragopan
 Cabot's Tragopan
 Western Tragopan
 Attwater's Prairie Chicken

E West Africa
 E Nepal, Pakistan, India
 E U.S.A., Mexico
 V India, Burma, China
 E China
 R Cameroon
 R Uganda, Zaire
 E Djibouti
 I Angola
 E China
 R Southern Asia
 V Borneo
 V Vietnam
 V Laos, Vietnam
 V Taiwan
 E Colombia
 V South-east Asia
 E Italy
 V Philippines
 R Laos, Vietnam, Malaysia
 E China
 R China, India, Indochina
 V Taiwan
 E Spain
 R Tibet, Bhutan, India, Burma
 E Tibet, Bhutan, India
 E India, Pakistan
 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 nesiotis
Grus canadensis pulla
Grus japonensis
Grus leucogeranus
Grus monacha
Grus nigricollis
Grus vipio
Amaurornis olivieri
Atlantisia rogersi
Coturnicops noveboracensis goldmani
Cyanolimnas cerverai
Dryolimnas cuvieri alabranus
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 semplumbeus
Sarothrura ayresi
Sarothrura watersi
Tricholimnas sylvestris

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 alabranus
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 semplumbeus
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
Takahe
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
E 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

Order CHARADRIIFORMES

Family Haematopodidae

- Haematopus meadewaldoi
Haematopus unicolor chathamensis

Family Recurvirostridae

- Himantopus himantopus knudseni
Himantopus novaezealandiae

Family Charadriidae

- Charadrius sanctaehelenae
Charadrius thoracicus
Thinornis novaeseelandiae
Vanellus macropterus

Family Scolopacidae

- Coenocorypha aucklandica
Limnodromus semipalmatus
Numenius borealis
Prosobonia cancellatus
Tringa guttifer

Family Laridae

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

Order COLUMBIFORMES

Family Columbidae

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

Great Indian Bustard

E India

Canarian Black Oystercatcher
Chatham Island Oystercatcher

Ex [Canary Is]
E Chatham Is

Hawaiian Stilt
Black Stilt

R Hawaii
E New Zealand

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

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

New Zealand Snipe
Asian Dowitcher
Eskimo Curlew
Tuamotu Sandpiper
Spotted Greenshank

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

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

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 Somalia

<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 oceanica ratakensis</u>	Radak Micronesian Pigeon	I	Marshall Is
<u>Ducula oceanica teraokai</u>	Truk Micronesian Pigeon	E	Caroline Is
<u>Ducula whartoni</u>	Christmas Imperial Pigeon	V	Christmas I. (Indian O.), Cocos Is
<u>Gallicolumba erythroptera</u>	Society Islands Ground Dove	I	Tuamotu
<u>Gallicolumba 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

<u>Vini peruviana</u>	Tahiti Lorikeet	R	Cook I., Society Is, Tuamotu
<u>Vini ultramarina</u>	Ultramarine Lorikeet	R	Marquesas Is

Family Psittacidae

<u>Agapornis nigrigenis</u>	Black-cheeked Lovebird	R	Zambia, Zimbabwe
<u>Amazona arausiaca</u>	Red-necked Parrot	E	Dominica
<u>Amazona brasiliensis</u>	Red-tailed Parrot	E	Brazil
<u>Amazona guildingii</u>	St Vincent Parrot	E	St Vincent
<u>Amazona imperialis</u>	Imperial Parrot	E	Dominica
<u>Amazona leucocephala bahamensis</u>	Bahamas' Parrot	R	Bahamas
<u>Amazona leucocephala hesternae</u>	Cayman Brac Parrot	R	Cayman Is
<u>Amazona pretrei</u>	Red-spectacled Parrot	V	Argentina, Brazil, Uruguay
<u>Amazona versicolor</u>	St Lucia Parrot	E	St Lucia
<u>Amazona vittata</u>	Puerto Rican Parrot	E	Puerto Rico
<u>Anodorhynchus glaucus</u>	Glaucous Macaw	E	South America
<u>Anodorhynchus leari</u>	Lear's Macaw	E	Brazil
<u>Ara ambigua guayaquilensis</u>	Guayaquil Great Green Macaw	I	Ecuador
<u>Ara glaucogularis</u>	Blue-throated Macaw	I	Bolivia
<u>Aratinga guarouba</u>	Golden Parakeet	V	Brazil

Bolborhynchus ferrugineifrons
Coracopsis nigra barklyi
Cyanopsitta spixii
Cyanoramphus auriceps forbesi
Cyanoramphus malherbi
Cyanoramphus novaezelandiae cookii
Eumyphicus cornutus uvaeensis
Geopsittacus occidentalis
Hapalopsittaca amazonina fuentisi
Neophema chrysogaster
Neophema pulchella
Neophema splendida
Ognorhynchus icterotis
Pezoparus wallicus
Psephotus c. crysopterygius
Psephotus chrysopterygius dissimilis
Psephotus pulcherrimus
Psittacula eques
Pyrrhura cruentata
Rhynchopsitta pachyrhyncha
Strigops habroptilus
Touit melanonta
Touit surda

Rufous-fronted Parakeet
 Seychelles Black Parrot
 Spix's Macaw
 Forbes's Parakeet
 Orange-fronted Parakeet
 Norfolk Island Parakeet
 Uvea Horned Parakeet
 Night Parrot
 Indigo-winged Parrot
 Orange-bellied Parakeet
 Turquoise Parakeet
 Splendid Parakeet
 Yellow-eared Conure
 Ground Parrot
 Golden-shouldered Parakeet
 Hooded Parakeet
 Paradise Parakeet
 Mauritius Parakeet
 Ochre-marked Parakeet
 Thick-billed Parrot
 Kakapo
 Black-eared Parrotlet
 Golden-tailed Parrotlet

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Colombia
 Seychelles
 Brazil
 Chatham Is
 Norfolk I.
 New Caledonia
 Australia
 Colombia
 Australia
 Australia
 Australia
 Colombia, Ecuador
 Australia
 Australia
 Australia
 Australia
 Mauritius
 Brazil
 Mexico
 New Zealand
 Brazil
 Brazil

Order CUCULIFORMES

Family Musophagidae

Tauraco bannermani
Tauraco fischeri zanzibaricus
Tauraco ruspolii

Bannerman's Turaco
 Zanzibar Red-crested Lourie
 Prince Ruspoli's Turaco

E
 R
 R

Cameroon
 Zanzibar
 Ethiopia

Family Cuculidae

Coua delalandei
Neomorphus geoffroyi dulcis

Neomorphus geoffroyi maximiliani
Pachycoccyx audeberti audeberti

Snail-eating Coua
 South-eastern Rufous-vented
 Ground Cuckoo
 Bahia Rufous-vented Ground Cuckoo
 Madagascar Thick-billed Cuckoo

Ex
 E

 I
 I

[Madagascar]
 Brazil

 Brazil
 Madagascar

Order STRIGIFORMES

Family Tytonidae

Phodilus prigoginei
Ityo soumagnei

Itonbwe Owl
 Madagascar Red Owl

I
 I

Zaire
 Madagascar

Family Strigidae

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

Order CAPRIMULGIFORMES

Family Caprimulgidae

<u>Caprimulgus noctitherus</u>		R	Puerto Rico
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Order APODIFORMES

Family Apodidae

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

Family Trochilidae

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

Sennornis ramphastinus

Stactolaema olivacea woodwardi

Family Indicatoridae

Melignomon eisentrauti

Family Picidae

Campephilus imperialis

Campephilus principalis

Dendrocopos leucotos owstoni

Dryocopus galeatus

Dryocopus javensis richardsi

Melanerpes supercilii bahamensis

Melanerpes supercilii nyanus

Picoides borealis

Picoides tridactylus inouyei

Picus awokera takatsukasa

Sapheopipo noguchii

Order PASSERIFORMES

Family Eurylaimidae

Pseudocalyptomena graueri

Family Dendrocolaptidae

Xiphorhynchus picus altirostris

Ceylon Broad-billed Roller	I	India, Sri Lanka
Rufous-headed Ground Roller	R	Madagascar
Short-legged Ground Roller	R	Madagascar
Scaly Ground Roller	R	Madagascar
Long-tailed Ground Roller	R	Madagascar
Helmeted Hornbill	I	South-east Asia
White-chested Tinkerbird	I	Zambia
Toucan Barbet	V	Colombia, Ecuador
Ngoye Green Barbet	R	South Africa
Yellow-footed Honeyguide	K	Cameroon, Ghana, Liberia
Imperial Woodpecker	E	Mexico
Ivory-billed Woodpecker	E	Cuba, U.S.A.
Owston's White-backed Woodpecker	R	Ryukyu Is
Helmeted Woodpecker	I	South America
Tristram's Woodpecker	E	North Korea, South Korea
Grand Bahama Red-bellied Woodpecker	I	Bahamas
San Salvador Red-bellied Woodpecker	R	Bahamas
Red-cockaded Woodpecker	V	U.S.A.
Inouye's Three-toed Woodpecker	R	Japan
Takatsukasa's Green Woodpecker	R	Ryukyu Is
Okinawa Woodpecker	E	Ryukyu Is
African Green Broadbill	R	Uganda, Zaire
Trinidad Straight-billed Woodcreeper	R	Trinidad & Tobago

Family Formicariidae

- Formicivora iheringi
- Grallaria allenii
- 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

- Ex [New Zealand]

Family Philepittidae

- Neodrepanis hypoxantha

- Yellow-bellied Sunbird-asity

- 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</u>	Jamaica Golden Swallow	I	Jamaica
<u>Pseudochelidon sirintarae</u>	White-eyed River Martin	I	Thailand

Family Motacillidae

<u>Anthus sokokensis</u>	Soko Pipit	V	Kenya, Tanzania
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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 abbotti</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 damii</u>	Van Dam's Vanga	R	Madagascar
<u>Xenopirostris polleni</u>	Pollen's Vanga	R	Madagascar

Family **Cinclidae**

Cinclus schultzi

Rufous-throated Dipper I Argentina

Family **Troglodytidae**

Cistothorus apolinari
Ferminia cerverai
Troglodytes aedon guadeloupensis
Troglodytes aedon mesoleucus
Troglodytes troglodytes fridariensis

Apolinar's Marsh Wren V Colombia
Zapata Wren R Cuba
Guadeloupe Wren E Guadeloupe
St Lucia Wren E St Lucia
Fair Isle Wren R U.K.

Family **Mimidae**

Cinlocerthia ruficauda gutturalis
Nesomimus trifasciatus trifasciatus
Ramphocinclus brachyurus

Martinique Trembler E Martinique
Charles Mockingbird R Galapagos Is
White-breasted Trembler E Martinique, St Lucia

Family **Muscicapidae**

Acrocephalus caffer aquilonis
Acrocephalus caffer longirostris
Acrocephalus caffer postremus
Acrocephalus kingii
Acrocephalus rodericanus
Acrocephalus sechellensis
Alethe choloensis
Amaurocichla bocagii
Amytornis goideri
Apalis argentea
Apalis kaboboensis
Apalis karamojae
Apalis moreau
Bathmocercus winifredae
Bowdleria punctata wilsoni
Bradypterus grandis
Bradypterus graueri
Chloropeta gracilirostris
Cichlherminia lherminieri
sanctaeluciae
Cisticola restricta
Copsychus sechellarum
Cossypha heinrichi
Crossleyia xanthophrys
Dasyornis brachypterus longirostris
Dasyornis broadbenti littoralis

Eiao Polynesian Warbler E Marquesas Is
Moorea Polynesian Warbler E Society Is
Hatutu Polynesian Warbler R Marquesas Is
Nihoa Millerbird R Hawaii
Rodrigues Brush Warbler E Rodrigues
Seychelles Brush Warbler R Seychelles
Thyolo Alethe E Malawi, Mozambique
Sao Tome Short-tail I Sao Tome
Eyrean Grass Wren I Australia
Kungwe Apalis R Central & East Africa
Kabobo Apalis R Zaire
Karamoja Apalis K Tanzania, Uganda
Long-billed Apalis R Mozambique, Tanzania
Mrs Moreau's Warbler R Tanzania
Codfish Island Fernbird E New Zealand
Dja River Warbler K Cameroon, Gabon
Grauer's Swamp Warbler V Central & East Africa
Papyrus Yellow Warbler R Central & East Africa
St Lucia Forest Thrush E St Lucia

Tana River Cisticola K Kenya
Seychelles Magpie Robin E Seychelles
White-headed Robin-chat I Angola, Zaire
Madagascar Yellowbrow I Madagascar
Western Bristlebird R Australia
Western Rufous Bristlebird E Australia

Dryocichloides lowei
Dryocichloides montanus
Eremomela turneri
Erithacus komadori subrufa
Humblotia flavirostris
Lioptilus gilberti
Macrosphenus pulitzeri
Megalurys pryeri pryeri
Melaenornis 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 nukuhiva
Pomarea nigra nigra
Prinia "fluviatilis"
Regulus calendula obscura
Saxicola dacotiae
Sheppardia gunningi
Swynnertonia swynnertonii
Terpsiphone bourbonensis 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
 I 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

Turdus kibalensis
Turdus oberlaenderi
Turdus poliocephalus poliocephalus
Zoothera dauma major

Family Sittidae

Sitta ledanti

Family Nectariniidae

Anthreptes pallidigaster
Anthreptes rubritorques
Nectarinia prigoginei
Nectarinia rockefelleri
Nectarinia rufipennis

Family Zosteropidae

Rukia longirostris
Rukia ruki
Speirops brunneus
Zosterops albugularis
Zosterops chloronothos
Zosterops conspicillata rotensis
Zosterops ficedulinus
Zosterops luteirostris luteirostris
Zosterops modestus
Zosterops mouroniensis

Family Meliphagidae

Apalopteron familiare familiare
Meliphaga cassidix
Moho braccatus
Notiomystis cincta

Family Emberizidae

Ammodramus maritimus mirabilis
Ammodramus maritimus nigrescens
Amphispiza belli clementeae
Atlapetes flaviceps
Camarhynchus heliobates
Geospiza magnirostris magnirostris
Melospiza melodia amaka
Nemosia rourei
Neospiza acunhae

Kibale Ground-thrush	I	Uganda
Forest Ground-thrush	R	Uganda, Zaire
Grey-headed Blackbird	E	Norfolk I.
Anami Ground-thrush	I	Ryukyu Is
Algerian Nuthatch	R	Algeria
Amani Sunbird	R	Kenya, Tanzania
Banded Green Sunbird	R	Tanzania
Marunga Sunbird	E	Zaire
Rockefeller's Sunbird	R	Zaire
Rufous-winged Sunbird	R	Tanzania
Ponape Greater White-eye	R	Caroline Is
Truk Greater White-eye	E	Caroline Is
Fernando Po Speirops	R	Eq. Guinea
White-breasted Silver-eye	E	Norfolk I.
Mauritius Olive White-eye	V	Mauritius
Rota Bridled White-eye	I	Marianas
Sao Tome White-eye	I	Sao Tome
Gizo White-eye	E	Solomon Is
Seychelles White-eye	R	Seychelles
Mount Karthala White-eye	R	Comoro Is
Mukojima Bonin Honeyeater	E	Japan
Helmsted Honeyeater	E	Australia
Kauai 'O'o	E	Hawaii
Stitchbird	V	New Zealand
Cape Sable Seaside Sparrow	R	U.S.A.
Dusky Seaside Sparrow	E	U.S.A.
San Clemente Sage Sparrow	E	U.S.A.
Olive-headed Brush Finch	I	Colombia
Mangrove Finch	R	Galapagos Is
Floreana Large Ground Finch	I	Galapagos Is
Amak Song Sparrow	Ex	[U.S.A.]
Cherry-throated Tanager	E	Brazil
Tristan Bunting	R	Tristan da Cunha

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
Leucopoea 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

Nukup'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
R Hawaii
E Hawaii
E Hawaii
V Hawaii
E Hawaii

Family Icteridae

Agelaius xanthomus

Yellow-shouldered Blackbird

V 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 Estrilididae

- Erythrura kleinschmidti
- Erythrura trichroa pelewensis
- Estrilda nigriloris
- Estrilda poliopareia

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

- R Fiji
- I Pacific Trust Territory
- K Zaire
- K Nigeria

Family Ploceidae

- Foudia flavicans
- Foudia rubra
- Foudia secellarum
- Malimbus ballmanni
- Malimbus ibadanensis
- Ploceus aureonucha
- Ploceus bannermani
- Ploceus batesi
- Ploceus flavipes
- Ploceus golandi
- Ploceus nicolli
- Ploceus nigritimentum
- 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 waideni

- 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 Dermatemnydidae

- Dermatemmys mawii

- V Central America

- Central American River Turtle

Family Emydidae

- Batagur baska
- Callagur borneoensis
- Clemmys muhlbergii
- 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 forsterii
- 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

Family Cheloniidae

Caretta caretta
Chelonia mydas
Eretmochelys imbricata
Lepidochelys kempii
Lepidochelys olivacea

Family Dermochelyidae

Dermochelys coriacea

Family Carettochelyidae

Carettochelys insculpta

Family Trionychidae

Trionyx nigricans

Family Pelomedusidae

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

Family Chelidae

Phrynops dahli
Phrynops hogei
Phrynops rufipes

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

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

Leatherback

E Tropical & Temperate Seas

New Guinea Plateless Turtle

K Australia, New Guinea

Dark Soft-shell Turtle

R Bangladesh

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

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

Yellow-spotted Sideneck Turtle

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

I Colombia
I Brazil
K Brazil, Colombia

Family Agamidae

Hydrosaurus pustulatus

Family Iguanidae

Amblyrhynchus cristatus

Anolis roosevelti

Brachylophus fasciatus

Conolophus pallidus

Conolophus subcristatus

Cyclura carinata

Cyclura cornuta

Cyclura cychlura

Cyclura nubiila

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

Macrosclincus coctaei

Family Anguidae

Gerrhonotus panamintus

Family Anniellidae

Anniella pulchra nigra

Family Helodermatidae

Heloderma horridum

Heloderma suspectum

Sail-fin Lizard	V	Philippines
Galapagos Marine Iguana	R	Galapagos Is
Culebra Island Giant Anole	E	Culebra I. (Puerto Rico)
Fiji Banded Iguana	E	Fiji, Tonga
Barrington Land Iguana	R	Galapagos Is
Galapagos Land Iguana	V	Galapagos Is
Turks & Caicos Rock Iguana	R	Bahamas, Turks & Caicos
Rhinoceros Rock Iguana	T	Hispaniola, Mona I.
Andros Ground Iguana	R	Bahamas
Cuban Ground Iguana	V	Cayman Is, Cuba
Anegada Ground Iguana	E	Anegada (British Virgin Is)
Hispaniolan Ground Iguana	K	Hispaniola
San Joaquin Leopard Lizard	T	Bahamas
San Diego Horned Lizard	E	U.S.A.
	K	Mexico, U.S.A.
	E	Hierro (Canary Is)
Filfola Lizard	R	Filfola I. (Malta)
St Croix Ground Lizard	E	U.S. Virgin Is
Orange-throated Whiptail	V	Mexico, U.S.A.
Macab Forest Skink	R	Mauritius
Round Island Skink	R	Round I.
Cape Verde Giant Skink	I	Cape Verde Is
Panamint Alligator Lizard	K	U.S.A.
Black Legless Lizard	E	U.S.A.
Beaded Lizard	I	Guatemala, Mexico
Gila Monster	V	Mexico, U.S.A.

Family Varanidae

- Varanus griseus caspius
- Varanus komodoensis

Central Asian Monitor
Komodo Dragon

V West Asia
R Indonesia

Order SERPENTES

Family Typhlopidae

- Typhlops monensis

Mona Blind Snake

R Mona I.

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

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

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

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

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

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

Family Elapidae

- Naja oxiana
- Ogmodon vitianus

Central Asian Cobra
Fiji Snake

Central Asia
Fiji

Family Viperidae

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

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

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

CLASS AMPHIBIA

Order CAUDATA

Family Cryptobranchidae

- Andrias davidianus
- Andrias japonicus

Chinese Giant Salamander
Japanese Giant Salamander

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

Family Salamandridae

- Chioglossa lusitanica

Gold-striped Salamander

V Portugal, Spain

Family Plethodontidae

- Batrachoseps aridus
- Batrachoseps sinatus
- 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 Mountains Salamander
Cheat Mountain Salamander
Texas Blind Salamander
Grotto Salamander

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

Family Proteidae

- Proteus anguinus

Olmo

V Italy, Yugoslavia

Order ANURA

Family Leiopelmatidae

- Leiopelma archeyi
- Leiopelma hamiltoni
- Leiopelma hochstetteri

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

R New Zealand
R New Zealand
R New Zealand

Family Pipidae

- Xenopus gilli

Cape Platanna

V South Africa

Family Discoglossidae

Discoglossus nigriventer

E Israel

Israel Painted Frog

Family Pelobatidae

Pelobates fuscus insubricus

E Italy

Italian Spadefoot Toad

Family Leptodactylidae

Batrachophrynus macrostomus

K Peru

Lake Juin Giant Frog

Eleutherodactylus jasperii

R Puerto Rico

Golden Cocqui Frog

Family Myobatrachidae

Philoria frosti

R Australia

Baw-baw Frog

Rheobatrachus silus

V Australia

Platypus Frog

Family Bufonidae

Bufo boreas nelsoni

I U.S.A.

Amargosa Toad

Bufo exsul

V U.S.A.

Black Toad

Bufo houstonensis

E U.S.A.

Houston Toad

Bufo periglensis

E Costa Rica

Golden Toad

Bufo retiformis

V Mexico, U.S.A.

Sonoran Green Toad

Nectophrynoides occidentalis

V Guinea, Ivory Coast

Mount Nimba Viviparous Toad

Family Hylidae

Hyla andersoni

R U.S.A.

Pine Barrens Tree Frog

Pseudacris streckeri illinoensis

I U.S.A.

Illinois Chorus Frog

Family Ranidae

Conraua goliath

V Cameroon, Eq. Guinea

Nesomantis thomasseti

I Thomasset's Seychelles Frog

Rana latastei

V Italian Agile Frog

Rana pipiens fisheri

E Italy, Switzerland, Yugoslavia

Sooglossus gardineri

E U.S.A.

Vegas Valley Leopard Frog

Sooglossus sechellensis

I Seychelles

Seychelles Frog

Family Hyperoliidae

Tachycinemis sechellensis

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 oxyrhynchus</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

Polyodon spathula

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

Notopterus blanchi

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

<u>Notropis welaka</u>	Bluenose Shiner	R	U.S.A.
<u>Notropis xanthicara</u>	Cuatro Cienegas Shiner	E	Mexico
<u>Oreodaimon quathlambae</u>	Drakensberg Minnow	E	Lesotho
<u>Phenacobius teretulus</u>	Kanawha Minnow	V	U.S.A.
<u>Phoxinus cumberlandensis</u>	Blackside Dace	V	U.S.A.
<u>Plagopterus argentissimus</u>	Woundfin	E	U.S.A.
<u>Pogonichthys ciscooides</u>	Clear Lake Splittail	Ex	[U.S.A.]
<u>Pogonichthys macrolepidotus</u>	Splittail	R	U.S.A.
<u>Probarbus jullieni</u>	Ikan Temoleh	I	South-east Asia
<u>Ptychocheilus lucius</u>	Colorado River Squawfish	E	U.S.A.
<u>Rasbora vaterifloris</u>	Vateria Flower Rasbora	V	Sri Lanka
<u>Relictus solitarius</u>	Relict Dace	V	U.S.A.
<u>Rhinichthys deaconi</u>	Las Vegas Dace	Ex	[U.S.A.]
<u>Rhinichthys osculus (subspecies)</u>	Speckled Dace	T*	Canada, U.S.A.
<u>Semotilus lumbee</u>	Sandhills Chub	R	U.S.A.
<u>Stypodon signifer</u>	Stumptooth Minnow	Ex	[Mexico]
<u>Tanakia tanago</u>	Tokyo Bitterling	E	Japan
<u>Tiaroga cobitus</u>	Loach Minnow	V	U.S.A.
<u>Tylognathus klatti</u>		E	Turkey
Family Cobitidae			
<u>Lepidocephalus jonklassi</u>	Spotted Loach	E	Sri Lanka
<u>Leptobotia curta</u>	Ayumodoki	E	Japan
Family Catostomidae			
<u>Catostomus bernardini</u>	Yaqui Sucker	V	Mexico, U.S.A.
<u>Catostomus fumeiventris</u>	Owens Sucker	R	U.S.A.
<u>Catostomus luxatus</u>	Lost River Sucker	V	U.S.A.
<u>Catostomus microps</u>	Modoc Sucker	E	U.S.A.
<u>Catostomus warnerensis</u>	Warner Sucker	E	U.S.A.
<u>Catostomus wigginsi</u>	Opata Sucker	R	Mexico
<u>Chasmistes brevirostris</u>	Shortnose Sucker	E	U.S.A.
<u>Chasmistes cujus</u>	Cui-ui	E	U.S.A.
<u>Chasmistes liorus</u>	June Sucker	E	U.S.A.
<u>Chasmistes muriei</u>	Snake River Sucker	Ex	[U.S.A.]
<u>Lagochila lacera</u>	Harelip Sucker	Ex	[U.S.A.]
<u>Moxostoma hamiltoni</u>	Rustyside Sucker	R	U.S.A.
<u>Moxostoma hubbsi</u>	Copper Redhorse	V	Canada
<u>Xyrauchen texanus</u>	Razorback Sucker	E	U.S.A.

Order CHARACIFORMES

Family Characidae

Catabasis acuminatus

Gymnocharacinus bergi

Naked Characin

E Brazil

V Argentina

Order SILURIFORMES

Family Diplomystidae

Diplomystes chilensis

Tollo de Agua Dulce

E Chile

Family Ictaluridae

Ictalurus mexicanus

Ictalurus pricei

Noturus bailei

Noturus flavipinnis

Noturus furiosus

Noturus gilberti

Noturus lachneri

Noturus munitus

Noturus placidus

Noturus stanuli

Noturus taylori

Noturus trautmani

Prietella phreatophila

Satan eurystomus

Trogloglanis pattersoni

Rio Verde Catfish

Yaqui Catfish

Smoky Madtom

Yellowfin Madtom

Carolina Madtom

Orangefin Madtom

Quachita Madtom

Frecklebelly Madtom

Neosho Madtom

Pygmy Madtom

Caddo Madtom

Scioto Madtom

Muzquiz Blindcat

Widemouth Blindcat

Toothless Blindcat

R Mexico

R Mexico

E U.S.A.

E U.S.A.

V U.S.A.

V U.S.A.

E 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.

Family Bagridae

Coreobagrus ichikawai

Gephryoglanis gilli

Nekogigi

Clanwilliam Rock-catfish

E Japan

R South Africa

Family Pangasiidae

Pangasianodon gigas

Pangasius sanitwongsei

Giant Catfish

Catfish

V Mekong Basin

R Thailand

Family Clariidae

Clarias cavernicola

Cave Catfish

E Namibia

Order SALMONIFORMES

Family Umbridae

Novumbra hubbsi

Olympic Mudminnow

R U.S.A.

Fish

Family Osmeridae

Osmerus spectrum

Pygmy Smelt

R Canada, U.S.A.

Family Retropinnidae

Prototroctes oxyrhynchus

New Zealand Greyling

Ex [New Zealand]

Family Galaxiidae

Galaxias postvectis

Shortjawed Kokopu

I New Zealand

Neohanna burrowsius

Canterbury Mudfish

R New Zealand

Neohanna diversus

Black Mudfish

I New Zealand

Family Salmonidae

Coregonus alpenae

Ex [Great Lakes (North America)]

Coregonus canadensis

E Great Lakes (North America)

Coregonus hoyi

I Great Lakes (North America)

Coregonus johannae

Ex Great Lakes (North America)

Coregonus kivi

V Great Lakes (North America)

Coregonus nigripinnis

V Great Lakes (North America)

Coregonus reighardi

V Great Lakes (North America)

Coregonus zenithicus

V Great Lakes (North America)

Salmo apache

V U.S.A.

Salmo chrysogaster

I Mexico

Salmo clarki (subspecies)

T* U.S.A.

Salmo gilae

E U.S.A.

Salmo platycephalus

E Turkey

Salvelinus agassizi

Ex [Mexico]

Stenodus leucichthys leucichthys

V U.S.S.R.

Order PERCOPSIFORMES

Family Amblyopsidae

Amblyopsis rosae

Ozark Cavefish

V U.S.A.

Amblyopsis spelaea

Northern Cavefish

V U.S.A.

Speoplatyrhinus poulsoni

Alabama Cavefish

V U.S.A.

Order CYPRINODONTIFORMES

Family Aplocheilidae

Rivulus robustus

Mexican Rivulus

R Mexico

Family Cyprinodontidae

Campellobias brucei

Santa Catarina Sabrefin

E Brazil

Crenichthys baileyi

White River Springfish

V U.S.A.

Crenichthys nevadae

Railroad Valley Springfish

V U.S.A.

Cuatlac tessellatus

Media Luna Killie

V Mexico

Family Goodeidae

- Allotoca maculata
- Ataeniobius toweri
- Characodon lateralis
- Skiffia francescae
- Xenoporphus captivus

Opal Goodeid
Striped Goodeid
Rainbow Goodeid
Golden Skiffia
Potosi Goodeid

V Mexico
V Mexico
V Mexico
E Mexico
R Mexico

Family Poeciliidae

- Gambusia alvarezi
- Gambusia amistadensis
- Gambusia gaigei
- Gambusia georgei
- Gambusia heterochir
- Gambusia hurtadoi
- Gambusia longispinis
- Gambusia nobilis
- Poeciliopsis occidentalis
- Xiphophorus couchianus
- Xiphophorus gordonii

Guayacon de San Gregorio
Amistad Gambusia
Big Bend Gambusia
San Marcos Gambusia
Clear Creek Gambusia
Guayacon de Hacienda Dolores
Guayacon de Cuatro Ciénegas
Pecos Gambusia
Gila Topminnow
Monterrey Platyfish
Cuatro Ciénegas Platyfish

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

Order ATHERINIFORMES

Family Atherinidae

- Menidia conchorum
- Menidia extensa

Key Silverside
Waccamaw Silverside

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

Family Phallostethidae

- Phallostethus dunckeri

I Malaysia

Order SCORPAENIFORMES

Family Cottidae

- Cottus asperimus
- Cottus echinatus
- Cottus extensus
- Cottus greeniei
- Cottus princeps
- Cottus pygmaeus

Rough Sculpin
Utah Lake Sculpin
Bear Lake Sculpin
Shoshone Sculpin
Klamath Lake Sculpin
Pygmy Sculpin

R U.S.A.
Ex [U.S.A.]
R U.S.A.
V U.S.A.
R U.S.A.
V U.S.A.

Order PERCIFORMES

Family Centrarchidae

- Ambloplites cavifrons
- Micropterus notius
- Micropterus treculi

Roanoke Bass
Suwannee Bass
Guadalupe Bass

R U.S.A.
R U.S.A.
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>	Watercress Darter	E	U.S.A.
<u>Etheostoma okaloosae</u>	Okaloosa Darter	V	U.S.A.
<u>Etheostoma pallidiorsum</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>	Blotcheside 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

Family Sciaenidae

<u>Iotoaba macdonaldi</u>	Totoaba	E	Mexico
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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 V Mexico
- Mojarra V Mexico
- Mojarra V Mexico
- Mojarra R Mexico
- Mojarra R Mexico
- Dikume V Cameroon
- Konye V Cameroon
- Sinarapan V Philippines
- Myaka Myaka V Cameroon
- Pungu V Cameroon
- Fissi V Cameroon
- Unga V Cameroon
- Leka Keppe V Cameroon
- Kululu V Cameroon
- Nsess V Cameroon
- Mongo V Cameroon
- pindu V Cameroon

Family Gobiidae

- Eucyclogobius newberryi
- Lentipes concolor
- Sicydium stimpsoni

- Tidewater Goby R U.S.A.
- Lizard Goby V U.S.A.
- O'opu Nopili R U.S.A.

Family Belontiidae

- Belontia signata
- Malpulutta kretseri

- Combtail R Sri Lanka
- Ornate Paradisefish 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.

Order HOPLONEMERTEA

Family Prosorhochmidae

Antiponemertes allisonae
Argonemertes australiensis
Argonemertes hillii
Argonemertes stocki
Geonemertes rodericana
Katechonemertes nightingaleensis
Leptonemertes chalcophora
Pantionemertes agricola
Pantionemertes enalios
Pantionemertes winsori

CLASS GASTROPODA

Order ARCHAEOGASTROPODA

Family Turbinidae

Turbo marmoratus

Order MESOGASTROPODA

Family Valvatidae

Valvata utahensis
Utah Roundmouth Snail

Family Hydrobiidae

Amnicola deserta
 Aphaostracon asthenes
 Aphaostracon monas
 Aphaostracon pyncas
 Aphaostracon xynoelectus
 Cincinnatia helicogyra
 Cincinnatia mica
 Cincinnatia monroensis
 Cincinnatia parva
 Cincinnatia ponderosa
 Cincinnatia vanhyningi
 Cincinnatia wekiwa
 Coahuilix hubbsi

Phylum MOLLUSCA

Phylum NEMERTEA

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

CR Indo-Pacific

I U.S.A.

[illegible]

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

Lithasia jayana
Lithasia lima
Lithasia salebrosa
Lithasia verrucosa

Family Strombidae
Strombas gigas

Family Cymatiidae
Charonia tritonis

Order GYMNOSOMATA
 Family Corambidae
Doridella batava

Order BASOMMATOPHORA
 Family Lymnaeidae
Lymnaea kingii
Myxas glutinosa
Stagnicola pilsbryi

Family Lencidae
Fisherola nuttalli

Family Physidae
Physa spelunca
Physa utahensis
Physa zionis
Physa sp.
Stenophysa microstriata

Family Planorbidae
Ancylastrum cumingianus
Helisoma jacksonense
Helisoma magnificum
Segmentina nitida
Iaphius eucosmius eucosmius

Order STYLOMMATOPHORA
 Family Achatinellidae
Achatinella (41 species)

Partulina confusa

Jay's River Snail	I	U.S.A.
Elk River File Snail	I	U.S.A.
Rugged River Snail	I	U.S.A.
Verrucose File Snail	I	U.S.A.
Queen Conch	CT	Caribbean
Triton's Trumpet	R	Indo-Pacific
Zuiderzee Doridella Sea Slug	K	Netherlands
Utah Band Snail	I	U.S.A.
Glutinous Snail	V	Europe
Fish Springs Pond Snail	I	U.S.A.
Giant Columbia River Limpet	I	U.S.A.
Wyoming Cave Snail	I	U.S.A.
Utah Bubble Snail	I	U.S.A.
Zion Canyon Snail	I	U.S.A.
Snake River Physa Snail	V	U.S.A.
Fish Lake Snail	I	U.S.A.
Tasmanian Freshwater 'Limpet'	E	Tasmania
Jackson Lake Snail	I	U.S.A.
Cape Fear Ramshorn Snail	I	U.S.A.
Greenfield Ramshorn Snail	V	Europe
	I	U.S.A.

22 species Little Agate Shells
 19 species Little Agate Shells

Ex [Hawaii]
 E Hawaii
 E Hawaii

<u>Partulina crassa</u>	Ex	[Hawaii]
<u>Partulina fusoides</u>	V	Hawaii
<u>Partulina montagui</u>	Ex	[Hawaii]
<u>Partulina perdix</u>	V	Hawaii
<u>Partulina splendida</u>	V	Hawaii
<u>Perdicella kuhnsi</u>	E/V	Hawaii
Family Partulidae		
<u>Partula aurantia</u>	E/Ex	Moorea
<u>Partula exigua</u>	E	Moorea
<u>Partula gibba</u>	E	Guam
<u>Partula hebe</u>	E	Society Is
<u>Partula mirabilis</u>	E	Moorea
<u>Partula mooreana</u>	E	Moorea
<u>Partula radiolata</u>	E	Moorea
<u>Partula salifana</u>	K	Guam
<u>Partula suturalis</u>	K	Guam
<u>Partula taeniata</u>	E	Moorea
<u>Partula tohiveana</u>	E	Moorea
<u>Samoana abbreviata</u>	I	American Samoa
<u>Samoana diaphana</u>	E	Society Is
<u>Samoana solitaria</u>	E	Society Is
Family Amastridae		
<u>Carelia</u> (all species)	Ex	[Hawaii]
<u>Thaanumia</u> sp.	Ex?	[Hawaii]
Family Pupillidae		
<u>Leiostylia abbreviata</u>	V	Madeira
<u>Leiostylia cassida</u>	V	Madeira
<u>Leiostylia corneocostata</u>	V	Madeira
<u>Leiostylia gibba</u>	V	Madeira
<u>Leiostylia lamellosa</u>	V	Madeira
<u>Sterkia clementina</u>	I	U.S.A.
Family Vertiginidae		
<u>Vertigo alabamensis</u>	I	U.S.A.
<u>Vertigo angustior</u>	V	Europe
<u>Vertigo genesii</u>	V	Europe
<u>Vertigo geyeri</u>	V	Europe
<u>Vertigo hebardi</u>	I	U.S.A.
<u>Vertigo mouliniana</u>	V	Europe
Family Vertiginidae		
<u>Vertigo alabamensis</u>	I	U.S.A.
<u>Vertigo angustior</u>	V	Europe
<u>Vertigo genesii</u>	V	Europe
<u>Vertigo geyeri</u>	V	Europe
<u>Vertigo hebardi</u>	I	U.S.A.
<u>Vertigo mouliniana</u>	V	Europe
Family Vertiginidae		
<u>Vertigo alabamensis</u>	I	U.S.A.
<u>Vertigo angustior</u>	V	Europe
<u>Vertigo genesii</u>	V	Europe
<u>Vertigo geyeri</u>	V	Europe
<u>Vertigo hebardi</u>	I	U.S.A.
<u>Vertigo mouliniana</u>	V	Europe

Family Clausiliidae

Balea perversa

V Europe

Family Succineidae

Catinella arenaria

V Europe

Oxyloma haydeni kanabensis

Kanab Amber Snail

I U.S.A.

Oxyloma sarsi

V Europe

Family Streptaxidae

Gulella plantii

Plant's Gulella Snail

V South Africa

Family Rhytididae

Paryphanta 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 Acavidae

Anoglypta launcestonensis

Granulated Tasmanian Snail

E Tasmania

Family Bulimulidae

Bulimulus (31 endemic species)

Placostylus ambagiosus

E Galapagos Is

Placostylus bollonsi

V New Zealand

Placostylus hongii

V New Zealand

Flax Snail

V New Zealand

Family Arionidae

Binneya notabilis

V U.S.A.

Geomalacus maculosus

R Ireland

Family Endodontidae

Anquispira picta

V U.S.A.

Discus defloratus

V Madeira

Discus querinianus

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

Mount Matafao Different Snail I American Samoa

Family Zonitidae

- Glyphyalinia pecki
Paravitrea clappi

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

Family Polygyridae

- Asmunella pasonis
Mesodon archeri
Mesodon clarki nantahala
Mesodon clausus trossulus
Mesodon clenchi
Mesodon magazinensis
Polygyra hippocrepis
Polygyra peregrina
Polygyriscus virginianus
Stenotrema hubrichti
Stenotrema leai cheatumi
Stenotrema pilsbryi
Iridopsis mullani magnidentata
Iridopsis occidentalis
Vespericola karokorum

Archer's Toothed Land Snail I U.S.A.
Noonday Snail I U.S.A.
Clench's Middle-toothed Land Snail V U.S.A.
Magazine Mountain Middle-toothed Snail I U.S.A.
Strange Many-whorled Land Snail I U.S.A.
Virginia Fringed Mountain Snail I U.S.A.
Pilsbry's Narrow-apertured Land Snail E U.S.A.
Western Three-toothed Land Snail I U.S.A.
Karok Indian Snail V U.S.A.

Family Ammonitellidae

- Ammonitella yatesi

Yate's Snail I U.S.A.

Family Camaenidae

- Papustyla pulcherima

Manus Green Tree Snail 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

Idaho Banded Mountain Snail I U.S.A.
Vortex Banded Mountain Snail I U.S.A.
Coalville Mountain Snail I U.S.A.
Carinated Striate Banded Mountain Snail I U.S.A.
Walton's Banded Mountain Snail I U.S.A.

Family Helminthoglyptidae

Helminthoglypta allynsmithi	Allyn Smith's Banded Snail	I	U.S.A.
<u>Helminthoglypta arrosa pomeoensis</u>		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>		I	U.S.A.
<u>Helminthoglypta walkeriana</u>	Banded Dune Snail	V	U.S.A.
<u>Micrarionta facta</u>	Concentrated Snail	V	U.S.A.
<u>Micrarionta feralis</u>	Fraternal Snail	I	U.S.A.
<u>Micrarionta gabbi</u>	Gabb's Snail	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 mccoiana</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>		I	U.S.A.
<u>Sonorella eremita</u>	Trinity Bristle Snail	I	U.S.A.
<u>Sonorella metcalfei</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>	V	Madeira
<u>Helix pomatia</u>	V	Madeira
<u>Helix subplicata</u>	R	Europe
	V	Madeira

Family **Elonidae**
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
Canthyrina collina
Carunculina pulla
Conradilla caelata
Cyprogenia aberti
Cyprogenia irrorata
Cyrtonaiaas tampicoensis
Dromus dromas
Elliptio marsupiobesa
Elliptio nigella
Elliptio spinosa
Elliptio steinstansana
Elliptio waccamawensis
Elliptio sp.
Epioblasma arcaeformis
Epioblasma biemarginata
Epioblasma brevidens
Epioblasma capsaeformis
Epioblasma flexuosa
Epioblasma florentina curtisi
Epioblasma florentina florentina
Epioblasma haysiana
Epioblasma lefevrei

Dwarf Wedge Mussel

Wheeler's Pearly Mussel
James River Spiny Mussel
Savannah Shore Mussel
Birdwing Pearly Mussel
Western Fan-shell Pearly Mussel
Eastern Fan-shell Pearly Mussel
Tampico Pearly Mussel
Dromedary Pearly Mussel
Cape Fear Spike Pearly Mussel
Recovery Pearly Mussel
Georgia Spiny Mussel
Tar River Spiny Mussel
Waccamaw Spike
Waccamaw Lake Pearly Mussel
Arc-form Pearly Mussel

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.]

Arcuate Pearly Mussel
Curtis Pearly Mussel
Yellow-blossom Pearly Mussel
Acorn Pearly Mussel
Lefevre's Pearly Mussel

<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>	Tuberled-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 higginsii</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>		I	U.S.A.
<u>Lexingtonia dolabelloides</u>	Scale Shell	I	U.S.A.
<u>Megalonaia nicklineana</u>	Slab-side Pearly Mussel	E	Mexico
<u>Obovaria retusa</u>	Nicklin's Pearly Mussel	I	U.S.A.
<u>Pegias fabula</u>	Golf Stick Pearly Mussel	I	U.S.A.
<u>Plethobasus cicatricosus</u>	Little Winged Pearly Mussel	E	U.S.A.
<u>Plethobasus cooperianus</u>	White Warty Back Pearly Mussel	E	U.S.A.
<u>Pleurobema clava</u>	Cumberland Pigtoe	E	U.S.A.
<u>Pleurobema curtum</u>	Northern Club Shell	E	U.S.A.
<u>Pleurobema marshalli</u>	Curtus' Mussel	E	U.S.A.
<u>Pleurobema oviforme</u>	Marshall's Mussel	I	U.S.A.
<u>Pleurobema plenum</u>		E	U.S.A.
<u>Pleurobema rubrum</u>	Rough Pigtoe Pearly Mussel	I	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
Toxotasma 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.
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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.

CLASS POLYCHAETA

Order EUNICIDA

Family Eunicidae

Eunice viridis

K Pacific

Palolo Worm

Phylum ANNELIDA

Annelids

CLASS HIRUDINOIDEA

Order ARHYNCHOBDELLAE

Family Hirudinidae

Hirudo medicinalis

Medicinal Leech

I

Europe

CLASS OLIGOCHAETA

Order HAPLOTAXIDA

Family Megascolecidae

Megascolides americanus

Megascolides australis

Megascolides macelfreshi

Washington Giant Earthworm

Giant Gippsland Earthworm

Oregon Giant Earthworm

E

V

E

U.S.A.

Australia

U.S.A.

Family Acanthodrilidae

Chilota (13 species)

Diplolema (16 species)

Microcolex (9 species)

Udeina (59 species)

South African Acanthodriline Earthworms

V

V

V

South Africa

South Africa

South Africa

South Africa

Family Microchaetidae

Microchaetus (33 species)

Iritogenia (5 species)

South African Giant Earthworms

V

V

South Africa

South Africa

Family Lutodrilidae

Lutodrilus multivesiculatus

R

U.S.A.

Family Komarekionidae

Komarekiona eatoni

V

U.S.A.

CLASS MEROSTOMATA

Order XIPHOSURA

Family Limulidae

Carcinoscorpius rotundicauda

Limulus polyphemus

Tachypleus gigas

Tachypleus tridentatus

Horseshoe Crabs

K

K

K

K

Coastal waters - Japan to Indonesia

Atlantic coast of North America

Coastal waters - Japan to Indonesia

Coastal waters - Japan to Indonesia

Phylum ARTHROPODA
Subphylum CHELICERATA

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
Iroglophantes gracilis
Iroglophantes similis
Iroglophantes 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 spinulae
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>Metatrichoniscoides celticus</u>	V	U.K.
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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 usdagalun</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 Cove 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>	Ephemeral 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.
Family Orchestiidae			
<u>Speleorchestia koloana</u>	Kauai Cave Amphipod	I	Hawaii

Order DECAPODA

Family Atyidae

- Palaemonias alabamae
- Syncaris pacifica
- Typhlatya monae

Alabama Cave Shrimp I U.S.A.
California Freshwater Shrimp E U.S.A.
Mona Cave Shrimp I Puerto Rico

Family Palaemonidae

- Palaemonetes antrorum
- Palaemonetes cummingi

Texas Cave Shrimp I U.S.A.
Florida Cave Shrimp V U.S.A.

Family Nephropidae

- Homarus americanus
- Homarus gammarus
- Nephrops norvegicus

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

Family Cambaridae

- Cambarus batchi
- Cambarus bouchardi
- Cambarus catagius
- Cambarus chasmodactylus
- Cambarus extransus
- Cambarus obeyensis
- Cambarus zophonastes
- Orconectes jeffersoni
- Orconectes shoupi
- Procambarus acherontis
- Procambarus connus
- Procambarus lepiclodactylus

Big South Fork Crayfish I U.S.A.
Greensboro Burrowing Crayfish I U.S.A.
New River Riffle Crayfish I U.S.A.
Chickamanga Crayfish I U.S.A.
Obey Crayfish I U.S.A.
Louisville Crayfish E U.S.A.
Nashville Crayfish I U.S.A.
Orlando Cave Crayfish E U.S.A.
Pee Dee Lotic Crayfish I U.S.A.

Family Astacidae

- Astacus astacus
- Austropotamobius pallipes
- Austropotamobius torrentium
- Pacifastacus fortis
- Pacifastacus nigrescens

Noble Crayfish V Europe
White-clawed Crayfish R Europe
Shasta Crayfish K Europe
Ex? V U.S.A.
[U.S.A.]

Family Parastacidae

- Astacoides madagascariensis
- Astacopsis gouldi
- Cherax crassimanus
- Engaewa subcoerulea

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

Family Palinuridae

<u>Jasus edwardsii</u>	Rock Lobster	CT	New Zealand
<u>Panulirus argus</u>		CT	Caribbean
<u>Panulirus guttatus</u>	Spotted Spiny Lobster	CT	Caribbean
<u>Panulirus penicillatus</u>		CT	Indo-Pacific

Family Coenobitidae

<u>Birgus latro</u>	Coconut Crab	R	Indo-Pacific
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Family Hippidae

<u>Emerita emeritus</u>	Sand Crab	K	India, Thailand
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Family Pinnotheridae

<u>Parapinnixa affinis</u>	California Bay Pea Crab	K	U.S.A.
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Subphylum UNIRAMIA

CLASS INSECTA

Order THYSANURA

Family Machilidae

<u>Machiloides heteropus</u>	Hawaiian Long-palp Bristletail	I	Hawaii
<u>Machiloides perkinsi</u>	Perkin's Club-palp Bristletail	I	Hawaii

Order EPHEMEROPTERA

Family Siphonuridae

<u>Acanthometropus pecatonica</u>	Pecatonica River Mayfly	Ex	[U.S.A.]
<u>Ameletus falsus</u>	False Mayfly	I	U.S.A.
<u>Isonychia diversa</u>	Diverse Mayfly	I	U.S.A.
<u>Tasmanophlebia lacus-coerulei</u>	Large Blue Lake Mayfly	R	Australia

Family Baetidae

<u>Heterocleon berneri</u>	Berner's Two-winged Mayfly	I	U.S.A.
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Family Oligoneuridae

<u>Homoeoneuria cahabensis</u>	Cahaba Sand-filtering Mayfly	I	U.S.A.
<u>Homoeoneuria dolani</u>	Blackwater Sand-filtering Mayfly	I	U.S.A.

Family Heptageniidae

<u>Pseudirion meridionalis</u>	Meridion Blackwater Mayfly	I	U.S.A.
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Family Behningiidae

<u>Dolania americana</u>	American Sand-burrowing Mayfly	I	U.S.A.
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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
- Angiagrion leoninium
- Ceriagrion mourae

I Angola
E Mauritius
I Cameroon
I Sierra Leone
I Mozambique

<u>Coenagrion freyi</u>	Frey's Damselfly	E	Austria, Germany, Switzerland
<u>Coenagrion mercuriale</u>	Southern Damselfly	E	Europe
<u>Enallagma cameronense</u>		I	Tropical Africa
<u>Enallagma polychromaticum</u>		I	South Africa
<u>Enallagma recurvatum</u>		V	U.S.A.
<u>Ischnura gemina</u>		E	U.S.A.
<u>Megalagrion adytum</u>		I	Hawaii
<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>		Ex?	[Hawaii]
<u>Megalagrion leptodemus</u>		I	Hawaii
<u>Megalagrion molokaiense</u>		I	Hawaii
<u>Megalagrion nesiotus</u>		Ex?	[Hawaii]
<u>Megalagrion nigrohamatum</u>		I	Hawaii
<u>Megalagrion nigrolineatum</u>		I	Hawaii
<u>Megalagrion oahuensis</u>		I	Hawaii
<u>Megalagrion oceanicum</u>		I	Hawaii
<u>Megalagrion pacificum</u>		E	Hawaii
<u>Megalagrion xanthomelas</u>		I	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>	Relict Himalayan Dragonfly	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 lampropeltis</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
	Sandhills Clubtail Dragonfly		
	Cherokee Clubtail Dragonfly		
	Diminutive Clubtail		
	Twin-striped Clubtail		

<u>Gomphus hodgei</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 potentulus</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>Indophlebia asiatica</u>					V	India
Family Cordulegasteridae						
<u>Cordulegaster myzmae</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>Libellullosoma 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
<u>Hodge's Clubtail</u>						
<u>Gulf Clubtail</u>						
<u>Tennessee Clubtail Dragonfly</u>						
<u>Septima's Clubtail Dragonfly</u>						
<u>Bronze Clubtail Dragonfly</u>						
<u>Grne Keiljungter</u>						
<u>Edmund's Snaketail Dragonfly</u>						
<u>Howe's Midget Snaketail Dragonfly</u>						
<u>Alleghany Snaketail Dragonfly</u>						
<u>Belle's Sand Variegated Clubtail</u>						
<u>Gomphus à Pattes Jeunes</u>						
<u>Yellow-sided Clubtail</u>						
<u>L'Aesche Verte</u>						
<u>Florida Spiketail Dragonfly</u>						
<u>Apalachicola Twilight Skimmer Dragonfly</u>						
<u>Orange-spotted Emerald</u>						

<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>Allothizucha 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>Monardithemis 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>Irithemis hartwigi</u>		I	Eq. Guinea
<u>Irithemis nigra</u>		I	Sao Tome
<u>Urothemis thomasi</u>		K	Iran

Family Synlestidae			
<u>Phyllestes 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 muwu

Deinacrida carinata

Deinacrida fallai

Deinacrida heteracantha

Deinacrida rugosa

Deinacrida tibiospina

Stenopelmatius cahuilaeensis

Stenopelmatius navajo

Family Rhaphidophoriidae

Daihinibaenetes arizonensis

Macrobaenetes kelsoensis

Macrobaenetes valgum

Pristoceuthophilus sp.

Utabaenetes tanneri

Family Tettigoniidae

Baetica ustulata

Banza nihoae

Belocephalus micranopy

Belocephalus sleighti

Conocephaloides remotus

Idiostatus middlekaufi

Neduba extincta

Neduba longipennis

Saga pedita

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

Family Perlidae

- Beloneuria jamesae
- Beloneuria georgiana
- Hansonoperla appalachia

Family Chloroperlidae

- Alloperla roberti

Family Peltoperlidae

- Soliperla fenderi

Family Eutheniidae

- Euthenia nothofagi

Family Gripopterygidae

- Leptoperla cacuminis
- Riekoperla darlingtoni

Order ZORAPTERA

Family Zorotypidae

- Zorotypus swezeyi

Order ANOPLURA

Family Haematopinidae

- Haematopinus oliveri

Order HEMIPTERA

Family Belostomatidae

- Belostoma saratogae

Family Naucoridae

- Ambrysus amargosus
- Pelocoris shoshone

Family Mesoveliidae

- Cavaticovelina aaa

Family Macroveliidae

- Oravelia pegi

Cheaha Stonefly	I	U.S.A.
Georgia Stonefly	I	U.S.A.
Hanson's Appalachian Stonefly	I	U.S.A.
Robert's Stonefly	Ex	[U.S.A.]
Fender's Stonefly	I	U.S.A.
Otway Stonefly	E	Australia
Mount Kosciusko Wingless Stonefly	R	Australia
Mount Donna Buang Wingless Stonefly	R	Australia
Swezey's Zoroapteran	I	Hawaii
Pygmy Hog Sucking Louse	E	India
Saratoga Springs Bug	I	U.S.A.
Ash Meadows Bug	E	U.S.A.
Amargosa Bug	I	U.S.A.
Aaa Water Treader Bug	I	U.S.A.
Dry Creek Cliff Strider Bug	I	U.S.A.

Family Miridae

Cyrtopeltis phyllostegiae
Kalania hawaiiensis
Kalania sp.

Phyllostegian Leaf Bug
Lanai Leaf Bug
Oshu Leaf Bug

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Family Reduviidae

Empicoris pulchrus
Siacella 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

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Family Lygaeidae

Metrarga obscura
Neseis alternatus
Neseis haleakalae
Nesocryptias villosa
Nysius frigatensis
Nysius neckerensis
Nysius nihoae
Nysius sulfusus
Oceanaiides bryani
Oceanides perkensi
Oceanides rugosiceps

Mauna Loa Seed Bug
Kauai Band-legged Seed Bug
Mount Haleakala Seed Bug
Villosan Flightless 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

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Family Rhopalidae

Ithamar annectans
Ithamar hawaiiense

Annectans Bug
Hawaiian bug

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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

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Family Delphacidae

Nesorestias filicicola
Nesosydne acuta
Nesosydne bridwelli

Mt. Tantalus Shortwing Fern Planthopper
Iao Valley Planthopper
Bridewell's Planthopper

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<u>Nesosydne cyrtandrae</u>					I	Hawaii
<u>Nesosydne cyrtandricola</u>					I	Hawaii
<u>Nesosydne kuschei</u>					I	Hawaii
<u>Nesosydne leahi</u>					I	Hawaii
<u>Nesosydne longipes</u>					I	Hawaii
<u>Nesosydne sulcata</u>					I	Hawaii
Family Cicadidae						
<u>Magiccicada cassini</u>					V	U.S.A.
<u>Magiccicada septendecim</u>					V	Canada
<u>Magiccicada septendecula</u>					V	U.S.A.
Family Cicadellidae						
<u>Felexamia rubranura</u>				Red-veined Prairie Leafhopper	I	U.S.A.
Family Pseudococcidae						
<u>Claviccoccus erinaceus</u>					Ex	[Hawaii]
<u>Phyllococcus oahuensis</u>					Ex	[Hawaii]
Order NEUROPTERA						
Family Ithonidae						
<u>Oliarces clara</u>					I	Hawaii, U.S.A.
Family Mantispidae						
<u>Mantispa styriaca</u>					K	South & Central Europe
Family Hemerobiidae						
<u>Nesothauma halakalae</u>				Haleakala Spongillafly	I	Hawaii
<u>Pseudopsectra cookeorum</u>				Cooke's Spongillafly	I	Hawaii
<u>Pseudopsectra lobipennis</u>				Lobe-wing Spongillafly	I	Hawaii
<u>Pseudopsectra swezeyi</u>				Swezey's Spongillafly	I	Hawaii
<u>Pseudopsectra usingeri</u>				Usinger's Spongillafly	I	Hawaii
Family Ascalaphidae						
<u>Libelloides libelluloides</u>					K	Europe
<u>Libelloides macaronius</u>					K	Europe
Family Myrmeleontidae						
<u>Acanthaclisis occitanica</u>					K	Europe
<u>Dendroleon pantherinus</u>					K	Europe
<u>Distoleon tetragrammicus</u>					K	Europe
<u>Eidoleon perjurus</u>					I	Hawaii
<u>Myrmeleon formicarius</u>				Molokai Antlion	K	Europe

Order COLEOPTERA

Family Carabidae

Agonum betteri
Aplothorax burchelli
Calosoma sycophanta
Carabus intricatus
Carabus olympiae
Elaphrus viridis
Mormolyce phyllodes
Sphaeroderus schaumii shenandoah

Beller's Ground Beetle
Puppenrauber
Blue Ground Beetle
Delta Green Ground Beetle
Ghost Walker Beetle
Schaum's Blue Ridge Ground Beetle

I U.S.A.
E St Helena
V Europe, North Africa, U.S.S.R.
V Europe
E Italy
V U.S.A.
V 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
Cazier's Tiger Beetle
Smyth's Tiger Beetle
Columbia River Tiger Beetle
North-eastern Beach Tiger Beetle
Oblivious Tiger Beetle
Coral Pink Dunes Tiger Beetle
Tiger Beetle
Cobblestone Tiger Beetle
Los Olmos Tiger Beetle
Subtropical Blue-black Tiger Beetle
Neojuvnale Tiger Beetle
Puritan Tiger Beetle
Greenest Tiger Beetle

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Family Haliplidae

Brychius hungerfordi
Haliphus nitens

Hungerford's Crawling Water Beetle
Disjunct Crawling Water Beetle

I U.S.A.
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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
Fig Seed Diving Beetle
Texas Cave Beetle
Elusive Diving Beetle
Folkert's Diving Beetle
Woolly Diving Beetle
Leech's Skyline Diving Beetle
Simple Diving Beetle

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E North & Central Europe, Siberia
E Central & West Europe
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<u>Hydroporus spangleri</u>	Spangler's Diving Beetle	I	U.S.A.
<u>Hydroporus sulphurius</u>	Sulphur Springs Diving Beetle	I	U.S.A.
<u>Hydroporus utahensis</u>	Utah Diving Beetle	I	U.S.A.
<u>Hygrotus artus</u>	Mono Lake Diving Beetle	Ex?	[U.S.A.]
<u>Hygrotus curvipes</u>	Curved-foot Diving Beetle	I	U.S.A.
<u>Hygrotus diversipes</u>	Narrow-foot Diving Beetle	I	U.S.A.
<u>Hygrotus fontinalis</u>	Travertine Band-thigh Diving Beetle	I	U.S.A.
<u>Hygrotus sylvanus</u>	Sylvan Diving Beetle	I	U.S.A.
Family Gyrinidae			
<u>Spanglerogyrus albiventris</u>	Red Hills Unique Whirligig Beetle	I	U.S.A.
Family Hydraenidae			
<u>Gymnocthebius maureenae</u>	Maureen's Minute Moss Beetle	I	U.S.A.
<u>Hydraena maureenae</u>	Maureen's Moss Beetle	I	U.S.A.
<u>Limnebius aridus</u>	Animas Minute Moss Beetle	I	U.S.A.
<u>Limnebius texanus</u>	Texas Minute Moss Beetle	I	U.S.A.
<u>Limnebius utahensis</u>	Utah Minute Moss Beetle	I	U.S.A.
<u>Ochthebius crassalus</u>	Wing-shoulder Minute Moss Beetle	I	U.S.A.
<u>Ochthebius putnamensis</u>	Indiana Minute Moss Beetle	I	U.S.A.
<u>Ochthebius reticulatus</u>	Wilbur Springs Minute Moss Beetle	I	U.S.A.
Family Leioididae			
<u>Glacicavicola bathysciodes</u>	Blind Cave Beetle	I	U.S.A.
Family Silphidae			
<u>Nicrophorus americanus</u>	American Burying Beetle	E	Eastern North America
Family Hydrophilidae			
<u>Chaetarthria leechi</u>	Leech's Water Scavenger Beetle	I	U.S.A.
<u>Chaetarthria utahensis</u>	Utah Water Scavenger Beetle	I	U.S.A.
<u>Cymbiodyta arizonica</u>	Arizona Water Scavenger Beetle	I	U.S.A.
<u>Hydrochara rickseckeri</u>	Ricksecker's Water Scavenger Beetle	I	U.S.A.
<u>Paracymus seclusus</u>	Seclusive Water Scavenger Beetle	I	U.S.A.
Family Lucanidae			
<u>Apterocychnus honoluluenis</u>	Kauai Flightless Stag Beetle	E	Hawaii
<u>Dorcus auriculatus</u>		V	New Zealand
<u>Dorcus ithaginis</u>		V	New Zealand
Family Trogidae			
<u>Irox howelli</u>	Caracara Commensal Scarab Beetle	V	U.S.A.

Family Geotrupidae

Typheus hiostius

Family Scarabaeidae

Aegialia concinna

Aegialia crescenta

Aegialia haroyi

Aegialia magnifica

Anomala exigua

Anomala eximia

Anomala tibialis

Aphodius fordi

Aphodius troglodytes

Ataenius superficialis

Ataenius woodruffi

Copris gopheri

Cyclocephala miamiensis

Dynastes hercules

Dynastes hercules glaseri

Dynastes hercules hercules

Dynastes hercules reidi

Glaresis arenata

Gronocarus multispinosus

Lichnanthe albopilosa

Lichnanthe ursina

Mycotrupes pedester

Onthophagus furacatus

Onthophagus polyphemi

Oryctes chevrolati

Osmoderma eremita

Peltotrupes youngi

Polylamina pubescens

Polyphylla anteronevea

Polyphylla avittata

Polyphylla barbata

Polyphylla nubila

Prodontria lewisi

Pseudocotalpa giulianii

Serica frosti

Serica tantula

Trigonopelastes floridana

V sardinia

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V U.S.A.

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V Caribbean & Northern South America

K Trinidad & Tobago

V Dominica, Guadeloupe

V Martinique, St Lucia

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V Austria

I U.S.A.

K Reunion

E Europe

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V New Zealand

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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 E Europe

Family Elmidae

Atractelmis wawona

Cylloepus parkeri

Dubiraphia brunnescens

Dubiraphia giulianii

Dubiraphia parva

Dubiraphia robusta

Heterelmis stephani

Huleechius marroni carolus

Microcylloepus browni

Optioservus browni

Optioservus canus

Optioservus phaeus

Stenelmis calida calida

Stenelmis calida moapa

Stenelmis douglasensis

Stenelmis gammoni

Zaitzeva thermiae

Wawona Riffle Beetle I U.S.A.
Parker's Riffle Beetle I U.S.A.
Brownish Riffle Beetle I U.S.A.
Giuliani's Riffle Beetle I U.S.A.
Little Riffle Beetle I U.S.A.
Robust Riffle Beetle I U.S.A.
Stephan's Riffle Beetle I U.S.A.
Marron's San Carlos Riffle Beetle I U.S.A.
Brown's Riffle Beetle I U.S.A.
Brown's Riffle Beetle I U.S.A.
Pinnacles Riffle Beetle I U.S.A.
Scott Riffle Beetle I U.S.A.
Devil's Hole Warm Spring Riffle Beetle I U.S.A.
Moapa Warm Springs Riffle Beetle I U.S.A.
Douglas Riffle Beetle I U.S.A.
Gammon's Riffle Beetle I U.S.A.
Warm Spring Riffle Beetle I U.S.A.

Family Psephenidae

Acneus beeri

Acneus burnelli

Alabamabria starki

Dicranopselaphus variegatus

Psephenus arizonensis

Psephenus montanus

Beer's False Water Penny Beetle I U.S.A.
Burnell's False Water Penny Beetle I U.S.A.
Stark's False Water Penny Beetle I U.S.A.
Variegated False Water Penny Beetle I U.S.A.
Arizona Water Penny Beetle I U.S.A.
White Mountains Water Penny Beetle I U.S.A.

Family Elateridae

Amychus candezei

Amychus granulatus

Eanus hatchi

Eopenthes (17 species)

Itodacnus (whole genus)

V Chatham Is, New Zealand
V New Zealand
I Canada, U.S.A.
E Hawaii
I Hawaii

Family Eucnemidae

Paleoxenus dohmi

Dohrn's Elegant Eucnemid Beetle I U.S.A.

Family Lampyridae

Micronaspis floridana
Photuris brunnipennis floridana

Family Anobiidae

Holcobius pikoensis

Family Cucujidae

Cucujus cinnaberinus

Family Tenebrionidae

Coelus globosus

Coelus gracilis

Polposipus herculeanus

Family Meloidae

Lytta hoppingi

Lytta inseperata

Lytta mirifica

Lytta moesta

Lytta molesta

Lytta morrisoni

Family Anthicidae

Anthicus antiochensis

Anthicus sacramento

Family Cerambycidae

Aeschrithmysus dubautianus

Aeschrithmysus swezeyi

Aeschrithmysus terryi

Cerambyx cerdo

Crossidius mojavensis mojavensis

Desmocerus californicus dimorphus

Dryobius sexnotatus

Macrodonatia cervicornis

Morimus funereus

Necydalis rudei

Nesithmysus bridwelli

Nesithmysus frobesi

Nesithmysus haasi

Nesithmysus swezeyi

Florida Intertidal Firefly	I	U.S.A.
Everglades Browing Firefly	I	U.S.A.
Piko Anobiid Beetle	I	Hawaii
Scharlachkfer	E	Northern & Central Europe
Globose Dune Beetle	I	Mexico, U.S.A.
San Joaquin Dune Beetle	I	U.S.A.
Frigate Island Giant Tenebrionid Beetle	R	Seychelles
Hopping's Blister Beetle	I	U.S.A.
Mojave Desert Blister Beetle	I	U.S.A.
Anthony Blister Beetle	I	Mexico, U.S.A.
Moestan Blister Beetle	I	U.S.A.
Molestan Blister Beetle	I	U.S.A.
Morrison's Blister Beetle	I	U.S.A.
Antioch Dunes Beetle	I	U.S.A.
Sacramento Beetle	I	U.S.A.
Cerambyx Longicorn	E	Hawaii
Mojave Rabbitbrush Longhorn Beetle	E	Hawaii
Valley Elderberry Longhorn Beetle	V	Hawaii
Six-banded Longhorn Beetle	I	Central & Northern Europe
	K	U.S.A.
	E	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

<u>Plagithmysus</u> (49 species)			
<u>Rosalia alpina</u>	Rosalia Longicorn	E	Hawaii
<u>Xylotoles costatus</u>		E	Central & Northern Europe [Chatham Is]
Family Chrysomelidae			
<u>Donacia idola</u>	Bog Idol Leaf Beetle	I	U.S.A.
Family Aglycyderidae			
<u>Proterhinus</u> (72 species)	Hawaiian Proterhinus Beetles	E	Hawaii
Family Curculionidae			
<u>Anagotus fairburni</u>	Flax Weevil	V	New Zealand
<u>Anagotus turbotti</u>	Turbott's Weevil	V	New Zealand
<u>Deinocoelonus nestotes</u>	Oahu Nestotes Weevil	E	Hawaii
<u>Dryophthorus distinguendus</u>		Ex	[Hawaii]
<u>Dryotribus mimeticus</u>		Ex	[Hawaii]
<u>Dysticheus rotundicollis</u>	Antioch Dune Weevil	I	U.S.A.
<u>Gymnopholus lichenifer</u>	Lichen Weevil	V	Papua New Guinea
<u>Hadramphus spinipennis</u>		V	Chatham Is
<u>Hadramphus stilbocarpae</u>		V	New Zealand
<u>Hadramphus tuberculatus</u>		V	New Zealand
<u>Heteramphus filicum</u>		E	Hawaii
<u>Heterexis seticostatus</u>		V	New Zealand
<u>Lyperobius huttoni</u>		V	New Zealand
<u>Macrancylus linearis</u>	Speargrass Weevil	Ex	[Hawaii]
<u>Megacolabus sculpturatus</u>		V	New Zealand
<u>Microcryptorhynchus orientissimus</u>		R	Henderson I.
<u>Miloderes nelsoni</u>	Nelson's Weevil	I	U.S.A.
<u>Miloderes ruieni</u>	Rulien's Weevil	I	U.S.A.
<u>Nesotocus giffordi</u>	Gifford's Weevil	I	Hawaii
<u>Nesotocus kauaiensis</u>	Kauai Weevil	I	Hawaii
<u>Nesotocus munroi</u>	Munro's Weevil	I	Hawaii
<u>Nothaldonis peaci</u>		E	New Zealand
<u>Oclandius laevisculus</u>		V	New Zealand
<u>Oedemasyllus laysanensis</u>		Ex	[Hawaii]
<u>Onchobarus langei</u>	Lange's El Segundo Dune Weevil	I	U.S.A.
<u>Oodemus (whole genus)</u>	Windward Chain Weevils	I	Hawaii
<u>Pentarthrum blackburni</u>	Blackburn's Weevil	Ex?	[Hawaii]
<u>Pentarthrum obscura</u>	Obscure Weevil	I	Hawaii
<u>Pentarthrum pritchardias</u>		E	Hawaii
<u>Rhyncogonus hendersoni</u>		R	Henderson I.
<u>Rhyncogonus</u> (22 species)	Hawaiian Snout Beetles	E	Hawaii
<u>Stenotrupis pritchardiae</u>	Nihoa Weevil	I	Hawaii

<u>Irigonoscuta brunnotessellata</u>	Brown-tassel Weevil	I	U.S.A.
<u>Irigonoscuta dorothea dorothea</u>	Dorothy's El Segundo Dune Weevil	I	U.S.A.
<u>Irigonoscuta doyeri</u>	Doyen's Dune Weevil	E/V	U.S.A.
<u>Irigonoscuta rossi</u>	Fort Ross Weevil	Ex?	[U.S.A.]
<u>Irigonoscuta yorbalindae</u>	Yorba Linda Weevil	Ex?	[U.S.A.]
<u>Unas piceus</u>		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>Metapogon 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>Campsicnemus mirabilis</u>		Ex	[Hawaii]
Family Syrphidae			
<u>Mixogaster delongi</u>	Delong's Flower Fly	I	U.S.A.

Family Asteiidae
Bryania bipunctata

Nihoa Two-spotted Asterid Fly I Hawaii

Family Drosophilidae
Drosophila lanaiensis

Ex [Hawaii]

Family Ephydriidae
Paracoenia calida

Wilber Springs Shore Fly I U.S.A.

Order TRICHOPTERA

Family Rhyacophilidae

Rhyacophila alexandra I U.S.A.
Rhyacophila amabilis Ex [U.S.A.]
Rhyacophila colonus I U.S.A.
Rhyacophila fenderi I U.S.A.
Rhyacophila haddocki I U.S.A.
Rhyacophila lineata I U.S.A.
Rhyacophila mosana I U.S.A.
Rhyacophila spinata I U.S.A.
Rhyacophila unipunctata I U.S.A.

Alexander's Caddisfly I U.S.A.
Castle Lake Caddisfly Ex [U.S.A.]
Obrien Caddisfly I U.S.A.
Fender's Caddisfly I U.S.A.
Haddock's Caddisfly I U.S.A.
Castle Crags Caddisfly I U.S.A.
Bilobed Caddisfly I U.S.A.
Spiny Caddisfly I U.S.A.
One-spot Caddisfly I U.S.A.

Family Glossosomatidae

Agapetus artesus I U.S.A.
Agapetus denningi I U.S.A.
Agapetus medicus I U.S.A.
Protoptila arca I U.S.A.

Artesian Caddisfly I U.S.A.
Denning's Caddisfly I U.S.A.
Arkansas Caddisfly I U.S.A.
San Marcos Caddisfly I U.S.A.

Family Hydrotilidae

Hydroptila decia I U.S.A.
Neotrichia kitae I U.S.A.
Ochrotrichia alsea I U.S.A.
Ochrotrichia contorta I U.S.A.
Ochrotrichia phenosa I U.S.A.
Ochrotrichia provosti I U.S.A.
Ochrotrichia vertreesi I U.S.A.
Oxyethira florida I U.S.A.

Knoxville Micro Caddisfly I U.S.A.
Kite's Micro Caddisfly I U.S.A.
Alsea Micro Caddisfly I U.S.A.
Contorted Micro Caddisfly I U.S.A.
Deschutes Micro Caddisfly I U.S.A.
Provost's Micro Caddisfly I U.S.A.
Vertree's Micro Caddisfly I U.S.A.
Florida Micro Caddisfly I U.S.A.

Family Philopotamidae

Apatania tavata I U.S.A.
Cryptochia excella I U.S.A.
Cryptochia neosa I U.S.A.

Cascades Caddisfly I U.S.A.
Kings Canyon Caddisfly I U.S.A.
Blue Mountains Caddisfly I U.S.A.

Dolophilodes oregona
Ecclisomyia bilera
Farula davis
Farula jewetti
Farula reaperi
Glyphopsyche missouri
Limnephilusalconura
Limnephilus atercus
Neothrauma andersoni
Oligophlebodes mostbento
Philocasca oron
Iriaenodes tridonata

Family Lepidostomatidae

Lepidostoma fischeri
Lepidostoma goedeni

Family Sericostomatidae

Agarodes ziczac

Family Odontoceridae

Psilotreta hansonii

Family Leptoceridae

Ceraclea floridana
Ceraclea vertreesi
Oecetis parva
Iriaenodes phalacris

Order LEPIDOPTERA

Family Hepialidae

Leto venus
Zelotypia stacyi

Family Nepticulidae

Ectodemia castaneae
Ectodemia phleophaga

Family Tischeriidae

Iischeria perplexa

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.
Columbian 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.]

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

Zigzag Blackwater Caddisfly I U.S.A.

I U.S.A.

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.]

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

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

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

Family Gracillariidae

- Petrochroa neckerensis
- Phildoria wilkesiella

Family Coleophoridae

- Coleophora leucochrysell

Family Gelechiidae

- Kiwaia jeanae

Family Carposinidae

- Heterocrossa viridis

Family Argyresthiidae

- Argyresthia castaneela

Family Sesiidae

- Synanthedon castaneae

Family Tortricidae

- Grapholitha edwardsiana
- Spheterista oheoheana
- Spheterista pterotropiana
- Spheterista reynoldsiana

Family Cochylidae

- Carolella busckana

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 panoquinoides errans
- Problema buienta

Necker Leaf-miner Moth

I Hawaii
E Hawaii

Ex? [U.S.A.]

V New Zealand

I Hawaii

Ex? [U.S.A.]

I U.S.A.

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

I U.S.A.

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.

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

Pseudocopaeodes eunus eunus
Syrictus cribrellum
Syrictus tessellum
Isitana dicksoni

Wandering Skipper
Spinose Skipper
Tessellated Skipper
Dickson's Sylph

I U.S.A.
I Romania, Southern U.S.S.R.
K Balkans, Southern U.S.S.R., Iran
V South Africa

Family Megathymidae
Stallingsia maculosus

Maculated Manfreda Skipper

I U.S.A.

Family Papilionidae

Atrophaneura atropos
Atrophaneura jophon
Atrophaneura luchtii
Atrophaneura palu
Atrophaneura schadenbergi
Baronia brevicornis
Battus zetides
Bhutanitis ludlowi
Bhutanitis mansfieldi
Bhutanitis thaidina
Eurytides iphitas
Eurytides lysithous harrisianus
Eurytides marcellinus
Graphium alebion chungianus
Graphium antiphates ceylonicus
Graphium aurivilliusi
Graphium epaminondas
Graphium idaeoides
Graphium levassori
Graphium meeki
Graphium megaera
Graphium mendana
Graphium procles
Graphium sandawanum
Graphium stresemanni
Luehdorfia chinensis
Luehdorfia japonica
Ornithoptera aesacus
Ornithoptera alexandrae
Ornithoptera chimaera
Ornithoptera croesus
Ornithoptera meridionalis
Ornithoptera paradisea

Sri Lankan Rose

Short-horned Baronia
Zetides Swallowtail
Ludlow's Bhutan Swallowtail
Mansfield's Three-tailed Swallowtail
Chinese Three-tailed Swallowtail
Yellow Kite Swallowtail
Harris' Mimic Swallowtail
Jamaican Kite

Sri Lankan Five-bar Swordtail

Andamans Swordtail

Meek's Graphium

Chinese Luehdorfia
Japanese Luehdorfia

Queen Alexandra's Birdwing
Chimaera Birdwing

Paradise Birdwing

I Philippines
V Sri Lanka
R Java
K Sulawesi
V Philippines
R Mexico
V Hispaniola
K Bhutan
R China
R China
V Brazil
E Brazil
V Jamaica
R Taiwan
V Sri Lanka
K Zaire
K Andaman Is
R Philippines
V Comoro Is
R Bougainville, Solomon Is
I Philippines
R Bougainville, Solomon Is
I Sabah
V Philippines
R Moluccas
K China
I Japan, Taiwan
I Moluccas
E Papua New Guinea
I New Guinea
V Moluccas
V New Guinea
I New Guinea

Ornithoptera rothschildi
Ornithoptera tithonus
Papilio acheron
Papilio antimachus
Papilio aristodemus ponceanus
Papilio aristophontes
Papilio aristor
Papilio benquetanus
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 neuomegeni
Papilio osmana
Papilio phorbanta
Papilio phorbanta nana
Papilio sjoestedti
Papilio toboroi
Papilio weymeri
Parides ascanius
Parides burchellianus
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

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

<u>Parnassius clodius shepardii</u>	Shepard's Clodius Parnassian	I	U.S.A.
<u>Parnassius clodius strohbeeni</u>	Strohbeen's Clodius Parnassian	Ex	[U.S.A.]
<u>Teinopalpus aureus</u>	Golden Kaiser-I-Hind	K	China
<u>Teinopalpus imperialis</u>	Kaiser-I-Hind	R	India to China
<u>Iroides aeacus kaguva</u>		E	Taiwan
<u>Iroides andromache</u>		I	Sabah, Sarawak
<u>Iroides dohertyi</u>	Talaud Black Birdwing	V	Sulawesi
<u>Iroides prattorum</u>		I	Moluccas
Family Pieridae			
<u>Artogeia virginienensis</u>	West Virginia White	I	Canada, U.S.A.
<u>Belenois orygia</u>		E	South Africa
<u>Euchloe hyantis andrewsi</u>	Andrew's Marble Butterfly	I	U.S.A.
<u>Mylothris carcassoni</u>		R	Zimbabwe
<u>Pieris krueperi devta</u>		R	India
Family Lycaenidae			
<u>Alaena margaritacea</u>		V	South Africa
<u>Aloeides caledoni</u>		V	South Africa
<u>Aloeides dentatis</u>		R	South Africa
<u>Aloeides egerides</u>		V	South Africa
<u>Aloeides lutescens</u>		V	South Africa
<u>Argyrocupha malagrida malagrida</u>	Lion's Head Copper	V	South Africa
<u>Argyrocupha malagrida paarlensis</u>	Lion's Head Copper	V	South Africa
<u>Callophrys mossii bayensis</u>	San Bruno Elfin	E	U.S.A.
<u>Capys penningtoni</u>		E	South Africa
<u>Chrysoritis cotrelli</u>		I	South Africa
<u>Chrysoritis oreas</u>	Drakensburg Copper	I	South Africa
<u>Chrysoritis zeuxo</u>		I	South Africa
<u>Cyclyrus mandersi</u>		I	South Africa
<u>Deloneura immaculata</u>		I	Mauritius
<u>Deloneura millari millari</u>		Ex?	[South Africa]
<u>Deudorix penningtoni</u>		V	South Africa
<u>Deudorix vansonii</u>		V	South Africa
<u>Durbania limbata</u>		V	South Africa
<u>Erikssonia acraeina</u>		V	South Africa
<u>Eumaeus atala florida</u>	Florida Atala Hairstreak	V	U.S.A.
<u>Everes comyntas texanus</u>	Texas Tailed Blue	Ex	[U.S.A.]
<u>Glaucopsyche lygdamus palosverdesensis</u>	Palos Verdes Blue	Ex?	[U.S.A.]
<u>Glaucopsyche xerces</u>	Xerces Blue	Ex	[U.S.A.]
<u>Hemiargus thomasi bethune-bakeri</u>	Miami Blue Butterfly	I	U.S.A.
<u>Icaricia icarioides missionensis</u>	Mission Blue	E	U.S.A.

Shijimiaeoides rita mattonii

Spindasis collinsi

Strymon acis bartrami

Strymon avalona

Thestor dicksoni dicksoni

Thestor kaplani

Thestor tempe

Irimenia wallengrenii

Uranothauma usambarae

Mattoni's Blue

Bartram's Hairstreak

Avalon Hairstreak

Dickson's Thestor

Kaplan's Thestor

Wallengren's Copper

I U.S.A.

V Tanzania

I U.S.A.

K U.S.A.

V South Africa

V South Africa

V South Africa

V South Africa

V Tanzania

Family Libytheidae

Libythea cinyras

Ex [Mauritius]

Family Danaidae (or Nymphalidae: Danainae)

Amauris comorana

Amauris nossima

Amauris pheodon

Anetia briarea

Anetia cubana

Anetia jaegeri

Anetia pantheratus

Danaus cleophile

Euploea albicosta

Euploea blossomae

Euploea caespes

Euploea configurata

Euploea cordelia

Euploea dentiplaga

Euploea doretta

Euploea eboraci

Euploea eupator

Euploea euphon

Euploea gamelia

Euploea lacon

Euploea latifasciata

Euploea magou

Euploea martinii

Euploea mitra

Euploea toberi

Euploea tripunctata

Idea electra

Idea iasonia

Idea malabarica

R Comoro Is

R Comoro Is, Madagascar

R Mauritius

R Cuba, Hispaniola

R Cuba

R Hispaniola

R Cuba, Hispaniola

K Hispaniola, Jamaica

R Irian Jaya

R Philippines

R Indonesia

R Sulawesi

R Sulawesi

R Indonesia

R Bismarck Arch.

R Bismarck Arch.

R Sulawesi

R Mauritius, Reunion, Rodrigues

R Java

R Bismarck Arch.

R Sulawesi

R Sulawesi

R Sumatra

R Seychelles

R Philippines

R Irian Jaya

R Philippines

R Sri Lanka

R India

Idea tambusisiana
Ideopsis hewitsonii
Ideopsis klassika
Ideopsis oberthurii
Parantica albata
Parantica clinias
Parantica crowleyi
Parantica dannatti
Parantica davidi
Parantica garamantis
Parantica kirbyi
Parantica kuekenthali
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
E Philippines
R Bougainville, Solomon Is
K New Guinea
R 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)

False Ringlet

Europe & Northern Asia

Coenonympha oedippus

Erebia annada annada

Erebia christi

Erebia gorgone

Erebia narasingha narasingha

Erebia ottomana

Erebia scipio

Erebia sthenyo

Raetzer's Ringlet

Gavarnie Ringlet

Ottoman Brassy Ringlet

Larche Ringlet

False Dewy Ringlet

Europe & Northern Asia

Bhutan, India

Italy, Switzerland

France

India

Southern Europe

France, Italy

France, Spain

<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>		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>Satyrodes eurydice fumosa</u>	Smokey Eyed Brown Butterfly	I	U.S.A.
<u>Smerina manoro</u>		R	Madagascar
<u>Speyeria adiaste 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	U.S.A.
<u>Speyeria nokomis caerulescens</u>	Blue Silverspot	I	Canada, 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 myrtilae</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>Geoblia dryadopa</u>	Oheuaupaka Oeobian Moth	I	Hawaii

Family Geometridae

Fletcherana ioxantha
Gnophos obscurata
Scotorythra megalophylla
Scotorythra nesiotis
Scotorythra paratactis
Iritocleis microphylla

Ioxantha Looper Moth
 Kona Giant Looper Moth
 Ko'olau Giant Looper Moth
 Hawaiian Hopseed Looper Moth
 Ola'a Peppered Looper Moth

I Hawaii
 K Austria
 Ex? [Hawaii]
 Ex? [Hawaii]
 Ex? [Hawaii]
 Ex? [Hawaii]

Family Lasiocampidae

Eriogaster catax
Phyllodesma ilicifolia

E Austria, Belgium, F.R.G., Hungary
 V Central & North Europe to Japan

Family Saturniidae

Graellsia isabelae
Saturnia pyri

Small Lappet Moth
 Spanish Moon Moth
 Great Peacock Moth

V France, Spain
 E Austria, Czechoslovakia, F.R.G.

Family Sphingidae

Celerio wilsoni perkinsi
Euproserpinus euterpe
Euproserpinus wiesti
Hyles hippophaes
Manduca blackburni
Proserpinus proserpina
Iinostoma smaragditis

Kern Primrose Sphinx Moth
 Prairie Sphinx Moth
 Blackburn's Sphinx Moth
 Fabulous Green Sphinx of Kauai

E Hawaii
 V U.S.A.
 E U.S.A.
 V Europe & U.S.S.R.
 Ex? [Hawaii]
 V Central & South Europe, Middle East
 Ex? [Hawaii]

Family Noctuidae

Acronicta albarufa
Agrotis crinigera
Agrotis fasciata
Agrotis kerri
Agrotis laysanensis
Agrotis photophila
Agrotis procellaris
Catocala marmorata
Catocala pretiosa
Erythroecia hebardei
Helicoverpa confusa
Helicoverpa minuta
Hydraecia petasitis
Hypena laysanensis
Hypena newelli
Hypena plagiota

Albarufan Dagger Moth
 Poko Noctuid Moth
 Midway Noctuid Moth
 Kerr's Noctuid Moth
 Laysan Noctuid Moth
 Procellaris grotis Noctuid Moth
 Marbled Underwing Moth
 Precious Underwing Moth
 Hebard's Noctuid Moth
 Confused Moth
 Minute Noctuid Moth
 Laysan Dropseed Noctuid Moth
 Hilo Noctuid Moth
 Lovegrass Noctuid Moth

I Canada, U.S.A.
 Ex? [Hawaii]
 Ex [Hawaii]
 Ex? [Hawaii]
 Ex [Hawaii]
 Ex [Hawaii]
 Ex [Hawaii]
 I U.S.A.
 I U.S.A.
 I U.S.A.
 Ex? [Hawaii]
 Ex [Hawaii]
 E Austria, F.R.G.
 Ex [Hawaii]
 Ex? [Hawaii]
 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 Bethyridae

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 dalmaticus
Camponotus fallax
Camponotus universitatis
Epimyrmica groesswaldi
Epimyrmica ravouxi
Formica aquilonia
Formica lugubris
Formica polycтена
Formica pratensis
Formica rufa
Formica transkaucasica
Formica uralensis
Leptothorax goesswaldi
Myrmica bibikoffi
Myrmica slovaca
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
Niihau Vespid Wasp
Soror Vespid Wasp

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 niithauensis
Odynerus soror

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 perkins
- 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

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- Hawaii
- Hawaii
- Hawaii
- U.S.A.

Family Colletidae

- Nesoprosophis (57 species)

- Hawaii

Family Andrenidae

- Perdita hirticeps luteocincta
- Perdita scitula antiochensis

- I
- I

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

Family Megachilidae

- Chalicodoma pluto

- Moluccas

CLASS ONYCHOPHORA

Order ONYCHOPHORA

Family Peripatidae

- Family Peripatosidae

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

- V
- V

- Equatorial Tropics
- Southern Hemisphere

CLASS ECHINOIDA

Order ECHINOIDA

Family Echinidae

- Echinus esculentus
- Paracentrotus lividus

- European Edible Sea Urchin
- Purple Urchin

- K
- CT

- North-east Atlantic
- North-east Atlantic, Mediterranean

Phylum ECHINODERMATA

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