

Appendix. Classified List of Hosts and Parasites¹

This list is compiled chiefly from the data given in the preceding papers. However, published and unpublished records of Spelaeorhynchidae (bat mites) and Polycetenidae (bat bugs) have been added, though these groups were not treated in the volume. Common names of hosts have also been added.

Most contributors did not give subspecies identifications of hosts, either because they did not have this information, or because they mistakenly considered it unimportant. Thus, in compiling the list, one could not usually determine the subspecific identity of a particular host. Accordingly, for practical reasons, most hosts, excepting bats, are listed by species only. The subspecies identifications of most of the host bats are known and are given in the list. Subspecies names are also given for a few bird hosts, for which the contributor had originally used subspecies names as species names.

Mr. Emmet R. Blake, Chicago Natural History Museum, advised on the use of some common and scientific names of birds, as did Dr. Charles O. Handley, Jr., Smithsonian Institution, on some common names of mammals, and Mr. Hymen Marx, Chicago Natural History Museum, on names of reptiles and amphibians. Otherwise, Hall and Kelson was followed for common names of mammals, Handley (this volume, pp. 735–795) for scientific names of Mammals and Eisenmann (1955) for common names of birds.

Authors of the new species listed are: *Amblyopinus* (Coleopterg: Staphylinidae), A. Barrera; chigger mites (Trombiculidae), J. M. Brennan and C. E. Yunker; Dermanyssidae, except *Hirstionyssus*, R. W. Strandtmann and C. E. Yunker, and of *Hirstionyssus*, C. E. Yunker and F. J. Radovsky; fleas (Siphonaptera), V. J. Tipton and E. Méndez; Laelaptinae, V. J. Tipton; Nycteribiidae, L. R. Guimarães; Streblidae, R. L. Wenzel.

¹ Compiled by Rupert L. Wenzel and Vernon J. Tipton, Editors, and Christina Johnson Fowler, Editorial Assistant.

Abbreviations

AN	Anoplura (sucking lice)	N	Nymph
CO	<i>Amblyopinus</i> (rove beetles)	NY	Nycteribiidae (batflies)
DE	Dermanyssidae (mites)	PO	Polycetenidae (bat bugs)
HI	Hippoboscidae (louse flies)	SI	Siphonaptera (fleas)
IX	Ixodoidea (ticks)	SP	Spinturnicidae (bat mites)
L	Larva	SPE	Spelaeorhynchidae (bat mites)
LA	Laelaptinae (laelaptid mites)	ST	Streblidae (batflies)
MA	Mallophaga (biting lice)	TR	Trombiculidae (chigger mites)

Classified List of Hosts and Parasites

Class AMPHIBIA

Order SALIENTIA

Family Bufonidae

Bufo marinus (Linnaeus)

Giant Toad

IX: *Amblyomma dissimile* Koch

Class REPTILIA

Order TESTUDINATA

Family Testudinidae

Geoemyda annulata (Gray)

Brown Ground Turtle

IX: *Amblyomma sabanerae* Stoll**Geoemyda funeria** (Cope)

Striped-bellied Ground Turtle

IX: *Amblyomma sabanerae* Stoll

" sp., N, L

Pseudemys scripta (Schoepff)

Pond Slider

IX: *Amblyomma sabanerae* Stoll" *dissimile* Koch

Family Kinosternidae

Kinosternon sp.IX: *Amblyomma sabanerae* Stoll

Order SQUAMATA

Suborder Sauria

Family Iguanidae

Anolis sp.

Anole

TR: *Eutrombicula alfreddugesi*
(Oudemans)**Basiliscus basiliscus** (Linnaeus)

American Basilisk

IX: *Amblyomma* sp., L**Iguana iguana** (Linnaeus)

Common Iguana

IX: *Amblyomma dissimile* Koch
" *sabanerae* Stoll**Sceloporus** sp.

Spiny Lizard

TR: *Eutrombicula alfreddugesi*
(Oudemans)*Pseudoschoengastia bulbifera*
Brennan

Family Teiidae

Ameiva ameiva (Linnaeus)IX: *Amblyomma dissimile* Koch

" sp., N, L

Ameiva bifrontata CopeDE: *Draconyssus belgicæ* n.sp.TR: *Eutrombicula alfreddugesi*
(Oudemans)" *goeldii* (Oudemans)**Ameiva festiva** (Lichtenstein)TR: *Eutrombicula goeldii* (Oudemans)**Ameiva undulata** (Wiegmann)TR: *Eutrombicula alfreddugesi*
(Oudemans)" *goeldii* (Oudemans)**Ameiva** sp.DE: *Draconyssus belgicæ* n.sp.Lizards, probably **Ameiva** spp.*Amblyomma* sp., N, L

Suborder Serpentes

Family Boidae

Constrictor constrictor LinnaeusIX: *Amblyomma dissimile* Koch**Epicrates** sp.IX: *Amblyomma* sp., N, L

Family Colubridae

Chironius carinatus (Linnaeus)IX: *Amblyomma dissimile* Koch**Oxybelis** sp.

Vine Snake

IX: *Amblyomma* sp., NTR: *Eutrombicula alfreddugesi*
(Oudemans)**Pseustes poecilonotus** (Günther)IX: *Amblyomma dissimile* KochTR: *Eutrombicula alfreddugesi*
(Oudemans)" *goeldii* (Oudemans)**Spilotes pullatus** (Linnaeus)IX: *Amblyomma dissimile* KochTR: *Eutrombicula alfreddugesi*
(Oudemans)**Thalerophis richardi** (Bory St. Vincent)

South American Green Tree Snake

IX: *Amblyomma* sp., L

Family Viperidae

Bothrops atrox (Linnaeus)

Fer-de-lance

IX: *Amblyomma dissimile* Koch**Lachesis muta** (Linnaeus)

Bushmaster

IX: *Amblyomma dissimile* Koch

Class AVES

Order TINAMIFORMES

Family Tinamidae

Crypturellus soui (Hermarn)

Little Tinamou

IX: *Amblyomma* sp., L**Crypturellus soui panamensis** (Carriker)

Little Tinamou

HI: *Microlynchia crypturelli*

J. Bequaert

Ornithoica vicina (Walker)**Tinamou**IX: *Ixodes brunneus* Koch

Order PELECANIFORMES

Family Pelecanidae

Pelecanus occidentalis californicus

Ridgeway

Brown Pelican

HI: *Olfersia sordida* Bigot

Family Phalacrocoracidae

Phalacrocorax olivaceus (Humboldt)

Olivaceous or Neotropic Cormorant

HI: *Olfersia sordida* Bigot

Family Anhingidae

Anhinga anhinga (Linnaeus)

Anhinga

TR: *Blankaartia sinnamaryi* (Floch
& Fauran)

Family Fregatidae

Fregata sp.

Frigatebird

HI: *Olfersia spinifera* (Leach)

Order CICONIIFORMES

Family Ardeidae

Casmerodius albus (Linnaeus)

Common Egret

HI: *Ornithoica confluenta* (Say)**Leucophoyx t. thula** (Molina)

Snowy Egret

HI: *Olfersia sordida* Bigot**Nycticorax nycticorax** (Linnaeus)

Black-crowned Night Heron

TR: *Blankaartia marui* n.sp.**Nyctanassa violacea** (Linnaeus)

Yellow-crowned Night Heron

TR: *Blankaartia wetmorei* n.sp.

Family Cochleariidae

Cochlearius cochlearius (Linnaeus)

Boat-billed Heron

IX: *Amblyomma dissimile* KochHI: *Lynchia albipennis* (Say)

Order FALCONIFORMES

Family Cathartidae

Sarcoramphus papa (Linnaeus)

King Vulture

HI: *Olfersia bisulcata* Macquart**Coragyps a. atratus** (Bechstein)

Black Vulture

IX: *Amblyomma oblongoguttatum*
KochHI: *Olfersia bisulcata* Macquart**Cathartes a. aura** (Linnaeus)

Turkey Vulture

HI: *Olfersia bisulcata* Macquart

Family Accipitridae

Leptodon cayanensis (Latham)(= *Odontriorchis palliatus*)

Gray-headed Kite

HI: *Ornithoctona fusciventris*
(Wiedemann)**Buteo magnirostris** (Gmelin)

Roadside Hawk

IX: *Amblyomma cajennense*
(Fabricius)**Leucopternis albicollis costaricensis**

Sclater

White Hawk

HI: *Lynchia angustifrons* (van der
Wulp)" *wolcottii* (Swenk)**Buteogallus anthracinus** (Lichtenstein)

Common Black Hawk

HI: *Lynchia nigra* (Perty)**Hypomorphnus urubitinga** (Gmelin)

Great Black Hawk

TR: *Eutrombicula batatas* (Linnaeus)**Spizaetus tyrannus** (Wied)

Black Hawk-Eagle

IX: *Amblyomma* sp., N**Hawk**HI: *Lynchia wolcottii* (Swenk)

Family Falconidae

Daptrius americanus (Boddaert)

Red-throated Caracara

HI: *Ornithoctona erythrocephala*
(Leach)**Caracara plancus** (Miller)

Crested Caracara

TR: *Eutrombicula batatas* (Linnaeus)**Falco s. sparverius** (Linnaeus)

American Sparrow Hawk or Kestrel

HI: *Lynchia angustifrons* (van der
Wulp)

Order GALLIFORMES

Family Cracidae

Crax rubra Linnaeus

Great Curassow

IX: *Amblyomma oblongoguttatum*
Koch
" sp., L**Penelope purpurascens** Wagler

Crested Guan

IX: *Amblyomma* sp., L

Family Phasianidae

Odontophorus erythrops Gould

Rufous-fronted Wood Quail

TR: *Eutrombicula alfreddugesi*
(Oudemans)*Odontacarus fieldi* Brennan &
Jones*Trombicula dunni* Ewing**Gallus gallus** (Linnaeus)

Domestic Fowl

DE: *Ornithonyssus bursa* (Berlese)IX: *Amblyomma* sp., N, LTR: *Eutrombicula batatas*
(Linnaeus)**Chicken coops**IX: *Argas persicus* (Oken)

Order GRUIFORMES

Family Rallidae

Aramides cajanea (P.L.S. Müller)

Gray-necked Wood Rail

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)

Family Eurypygidae

Eurypyga helias (Pallas)

Sunbittern

HI: *Ornithoctona erythrocephala*
(Leach)

Order CHARADRIIFORMES

Family Laridae

Sterna fuscata Linnaeus

Sooty Tern

HI: *Olfersia aenescens* C. G. Thomson

Order COLUMBIFORMES

Family Columbidae

Columba livea Gmelin

Rock Dove or Domestic Pigeon

HI: *Pseudolynchia canariensis*
(Macquart)**Columba speciosa** Gmelin

Scaled Pigeon

HI: *Stilbometopa ramphastonis* Ferris**Columbigallina talpacoti** (Temminck)

Ruddy Ground Dove

DE: *Pellonyssus marui* n.sp.**Leptotila cassinii** (Lawrence)

Gray-chested Dove

TR: *Trombicula dunni* Ewing

Order CUCULIFORMES

Family Cuculidae

Crotophaga ani Linnaeus

Smooth-billed Ani

TR: *Eutrombicula batatas* (Linnaeus)**Neomorphus geoffroyi salvini** Sclater

Rufous-vented Ground Cuckoo

IX: *Argas persicus* (Oken), NTR: *Eutrombicula goeldii* (Oudemans)*Odontacarus fieldi* Brennan &

Jones

Trombicula dunni Ewing

Order STRIGIFORMES

Family Strigidae

Otus guatemalae (Sharpe)

Vermiculated Screech Owl

TR: *Blankaartia sinnamaryi* (Floch & Fauran)HI: *Lynchia wolcotti* (Swenk)**Bubo virginianus** (Gmelin)

Great Horned Owl

HI: *Lynchia americana* (Leach)**Glaucidium jadinii** (Bonaparte)

Andean Pygmy Owl

SI: *Ceratophyllus altus* n. sp.**Ciccaba virgata** (Cassin)

Mottled Owl

TR: *Blankaartia sinnamaryi* (Floch & Fauran)**Ciccaba virgata centralis** Griscom

Mottled Owl

HI: *Lynchia wolcotti* (Swenk)

Order CAPRIMULGIFORMES

Family Caprimulgidae

Chordeiles acutipennis (Hermann)

Lesser Nighthawk

HI: *Pseudolynchia brunnea* (Latreille)**Nyctidromus albicollis** (Gmelin)

Pauraque

TR: *Eutrombicula batatas* (Linnaeus)
Blankaartia sinnamaryi (Floch & Fauran)**Caprimulgus rufus** Boddaert

Rufous Nightjar, "Capacho"

TR: *Blankaartia sinnamaryi* (Floch & Fauran)HI: *Pseudolynchia brunnea* (Latreille)

Order APODIFORMES

Family Trochilidae

Phaethornis guy (Lesson)

Green Hermit

DE: *Pellonyssus gorgasi* n.sp.

Order TROGONIFORMES

Family Trogonidae

Pharomachrus mocinno de la Llave

Quetzal

HI: *Ornithoetona fusciventris* (Wiedemann)
" nitens (Bigot)**Trogon massena** Gould

Slaty-tailed Trogon

TR: *Blankaartia sinnamaryi* (Floch & Fauran)**Trogon collaris puella** Gould

Bar-tailed Trogon

HI: *Ornithoetona nitens* (Bigot)**Trogon** sp.HI: *Ornithoetona nitens* (Bigot)

Order CORACIIFORMES

Family Alcedinidae

Chloroceryle americana (Gmelin)

Green Kingfisher

IX: *Amblyomma* sp., L

Family Momotidae

Electron platyrhynchum (Leadbeater)

Broad-billed Motmot

TR: *Neoschoengastia electron* n. sp.**Baryphthengus ruficapillus** (Viellot)

Rufous Motmot

TR: *Blankaartia sinnamaryi* (Floch & Fauran)**Momotus momota** (Linnaeus)

Blue-crowned Motmot

TR: *Eutrombicula goeldii* (Oudemans)

Order PICIFORMES

Family Bucconidae

Malacoptila panamensis Lafresnaye

White-whiskered Puffin

IX: *Amblyomma longirostre* (Koch), NTR: *Eutrombicula goeldii* (Oudemans)**Monasa morphoeus** (Hahn and Kuster)

White-fronted Nunbird

TR: *Blankaartia sinnamaryi* (Floch & Fauran)**Monasa morphoeus grandior** Sclater & Salvin

White-fronted Nunbird

HI: *Stilbometopa rhamphastonis* Ferris

Species undetermined

TR: *Blankaartia sinnamaryi* (Floch & Fauran)

Family Capitonidae

Capito maculicoronatus Lawrence
Spot-crowned Barbet

IX: *Amblyomma* sp., N

Family Ramphastidae

Aulacorhynchus prasinus (Gould)
Emerald Toucanet

DE: *Ornithonyssus sylvarium*
Canestrini & Fanzago

Ramphastos sulfuratus brevicarinatus
Gould

Keel-billed Toucan

HI: *Lynchia angustifrons* (van der
Wulp)

Ramphastos swainsonii Gould

Chestnut-mandibled Toucan

HI: *Lynchia angustifrons* (van der
Wulp)

Ornithoica vicina (Walker)

Stilbometopa ramphastonis Ferris

Ramphastos sp.

IX: *Amblyomma* sp., N

Order PASSERIFORMES

Family Dendrocolaptidae

Dendrocincla homochroa (Sclater)

Ruddy Woodcreeper

HI: *Blankaartia sinnamaryi* (Floch &
Fauran)

Xiphorhynchus guttatus (Lichtenstein)

Buff-throated Woodcreeper

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)

Xiphorhynchus sp.

IX: *Amblyomma longirostre*
(Koch), N

Family Furnariidae

Sclerurus guatemalensis (Hartlaub)

Scaly-throated Leafscraper

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)

Family Formicariidae

Cymbilaimus lineatus

Fasciated Antshrike

IX: *Amblyomma longirostre*
(Koch), N

Taraba major (Vieillot)

Great Antshrike

TR: *Eutrombicula alfreddugesi*
(Oudemans)

Blankaartia sinnamaryi (Floch &
Fauran)

Thamnophilus nigriceps Sclater

Black Antshrike

IX: *Amblyomma* sp., N

Dysithamnus mentalis (Temminck)

Plain Antvireo

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)

Dysithamnus puncticeps Salvin

Spot-crowned Antvireo

HI: *Ornithoictona fusciventris*
(Wiedemann)

Cercomacra tyrannina rufiventris

(Lawrence)

Dusky Antbird

HI: *Ornithoictona fusciventris*
(Wiedemann)

Family Cotingidae

Rhytipterna holerythra (Sclater & Salvin)

Rufous Mourner

IX: *Amblyomma* sp., N

HI: *Ornithoictona fusciventris*
(Wiedemann)

Querula purpurata (Müller)

Purple-throated Fruitcrow

IX: *Amblyomma longirostre*
(Koch), N

Family Tyrannidae

Myiodynastes hemichrysus (Cabanis)

Golden-bellied Flycatcher

HI: *Ornithoica vicina* (Walker)

Myiozetetes sp.

TR: *Eutrombicula batatas* (Linnaeus)
Blankaartia sinnamaryi (Floch &
Fauran)

Myiarchus ferox (Gmelin)

Short-crested Flycatcher

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)

Empidonax flavescens Lawrence

Yellowish Flycatcher

HI: *Ornithoictona fusciventris*
(Wiedemann)

Family Hirundinidae

Progne chalybea (Gmelin)

Gray-breasted Martin

DE: *Pellonyssus marui* n.sp.

Notiochelidon cyanoleuca (Vieillot)

Blue-and-White Swallow

SI: *Dasypsyllus lasius venezuelensis*
(I. Fox & Anduze)

Family Troglodytidae

Thryothorus atrogularis Salvin

Black-throated Wren

HI: *Ornithoctona fusciventris*
(Wiedemann)**Troglodytes musculus inquietus** Baird

Southern House Wren

HI: *Ornithoctona nitens* (Bigot)**Cyphorhinus aradus phaeocephalus** Sclater

Song Wren

TR: *Eutrombicula goeldii* (Oudemans)**Henicorhina leucophrys collina** Bangs

Gray-breasted Wood-Wren

HI: *Ornithoctona fusciventris*
(Wiedemann)

Wren

HI: *Ornithoctona fusciventris*
(Wiedemann)

Family Mimidae

Dumetella carolinensis (Linnaeus)

Common Catbird

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)

Family Turdidae

Turdus albicollis cnephosus (Bangs)(= *Turdus tristis cnephosa*)

White-throated Robin

HI: *Ornithoctona fusciventris*
(Wiedemann)**Turdus grayi** Bonaparte

Clay-colored Robin

DE: *Pellonyssus marui* n.sp.**Turdus plebejus** Cabanis

Mountain Robin

HI: *Ornithoctona fusciventris*
(Wiedemann)**Hylocichla ustulata** (Nuttall)

Swainson's or Olive-backed Thrush

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)**Catharus mexicanus** (Bonaparte)

Black-headed Nightingale Thrush

TR: *Eutrombicula batatas* (Linnaeus)
Blankaartia sinnamaryi (Floch &
Fauran)

Family Sylviidae

Microbates cinereiventris (Sclater)

Half-collared Gnatwren

TR: *Trombicula dunni* Ewing
Blankaartia sinnamaryi (Floch &
Fauran)

Family Ptilogonatidae

Ptilogonys caudatus Cabanis

Long-tailed Silky Flycatcher

SI: *Dasypsyllus gallinulae*
perpinnatus (Baker)

Family Vireonidae

Vireo flavoviridis (Cassin)

Yellow-green Vireo

DE: *Pellonyssus marui* n.sp.

Family Parulidae

Oporornis formosus (Wilson)

Kentucky Warbler

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)**Geothlypis semiflava** Sclater

Olive-crowned Yellowthroat

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)

"Yellow water thrush"

HI: *Ornithoctona fusciventris*
(Wiedemann)

Family Icteridae

Cacicus uropygialis microrhynchus

(Sclater & Salvin)

Scarlet-rumped Cacique

IX: *Amblyomma longirostre*
(Koch), N**Cassidix mexicanus** (Gmelin)

Boat-tailed Grackle

DE: *Pellonyssus marui* n.sp.**Icterus mesomelas** (Wagler)

Yellow-tailed Oriole

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)**Icterus chrysater** (Lesson)

Yellow-backed Oriole

IX: *Amblyomma longirostre*
(Koch), N

Family Thraupidae

Ramphocelus passerinii Bonaparte

Scarlet-rumped Tanager

IX: *Amblyomma* sp., N**Piranga rubra** (Linnaeus)

Summer Tanager

TR: *Blankaartia sinnamaryi* (Floch &
Fauran)**Piranga bidentata sanguinolenta**

(Lafresnaye)

Flame-colored Tanager

HI: *Ornithoctona fusciventris*
(Wiedemann)

Tachyphonus rufus (Boddaert)

White-lined Tanager

IX: *Amblyomma* sp., N**Eucometis penicillata** (Spix)

Gray-headed Tanager

IX: *Amblyomma* sp., L

Family Fringillidae

Saltator maximus (P.L.S. Müller)

Buff-Throated Saltator

IX: *Amblyomma longirostre*
(Koch), N**Saltator albicollis** Vieillot

Streaked Saltator

IX: *Amblyomma longirostre*
(Koch), N**Tiaris olivacea pusilla** Swainson(= *Eutheia o. pusilla*)

Yellow-faced Grassquit

HI: *Ornithoetona fusciventris*
(Wiedemann)**Sporophila aurita corvina** (Sclater)

Variable Seedeater

IX: *Amblyomma* sp., N
TR: *Blankaartia sinnamaryi* (Floch &
Fauran)**Pselliophorus tibialis** (Lawrence)

Yellow-thighed Finch

HI: *Ornithoetona fusciventris*
(Wiedemann)**Atlapetes gutturalis** (Lafresnaye)

Yellow-throated Brush Finch

HI: *Ornithoetona fusciventris*
(Wiedemann)**Arremonops conirostris** (Bonaparte)

Green-backed Sparrow

IX: *Amblyomma ovale* Koch
TR: *Blankaartia arremonops*
(Brennan & Jones)

Miscellaneous

No host or undet.

HI: *Olfersia fossulata* Macquart
Ornithoetona fusciventris
(Wiedemann)
Stilbometopa ramphastonis Ferris

Bird nests

SI: *Dasypsyllus gallinulae*
perpinnatus (Baker)
Dasypsyllus lasius
venezuelensis (I. Fox &
Anduze)

Class MAMMALIA

Order MARSUPIALIA

Family Didelphidae

Caluromys derbianus (Waterhouse)(= *Philander laniger* Goldman)

Wooly Opossum

IX: *Amblyomma geayi* Neumann
" sp., N, L**Monodelphis adusta** (Thomas)

Short-tailed Opossum

IX: *Ixodes venezuelensis* Kohls**Marmosa mexicana** Merriam

Mexican Mouse-Opossum

TR: *Eutrombicula goeldii* (Oudemans)
Pseudoschoengastia bulbifera
Brennan**Marmosa robinsoni** Bangs

South American Mouse-Opossum

LA: *Tur uniscutatus* (Turk)
DE: *Ornithonyssus wernecki*
(Fonseca)IX: *Amblyomma sabanerae* Stoll*Ixodes luciae* Senevet, NTR: *Eutrombicula alfreddugesi*
(Oudemans)
" *goeldii* (Oudemans)*Leptotrombidium panamensis*
(Ewing)*Pseudoschoengastia bulbifera*
Brennan*Trombicula dunni* Ewing" *manueli* Brennan &
JonesSI: *Adoratopsylla intermedia coph*
(Jordan)*Polygenis roberti beebei* (I. Fox)
" *klagesi* (Rothschild)**Philander opossum** (Linnaeus)

Four-eyed Opossum

LA: *Haemolaelaps glasgowi* (Ewing)
Tur uniscutatus (Turk)DE: *Ornithonyssus wernecki*
(Fonseca)IX: *Amblyomma auricularium*
(Conil)" *geayi* Neumann
" sp., N, L*Ixodes luciae* SenevetTR: *Crotiscus desdentatus* (Boshell &
Kerr)*Euschoengastia nunezi*
(Hoffmann)

- Eutrombicula alfreddugesi*
(Oudemans)
" *goeldii* (Oudemans)
Pseudoschoengastia bulbifera
Brennan
Trombicula dunni Ewing
" *keenani* Brennan &
Jones
- SI: *Adoratopsylla intermedia copha*
(Jordan)
Polygenis roberti beebei (I. Fox)
Rhopalopsyllus australis tupinus
Jordan & Rothschild
Rhopalopsyllus cacicus saevus
Jordan & Rothschild
- Metachirus nudicaudatus** (E. Geoffroy St.-
Hilaire)
Brown Opossum
LA: *Haemolaelaps glasgowi* (Ewing)
DE: *Ornithonyssus wernecki*
(Fonseca)
IX: *Ixodes loricatus* Neumann
" sp., N
TR: *Eutrombicula goeldii* (Oudemans)
Myxacarus oscillatus n. sp.
Trombicula dunni Ewing
SI: *Adoratopsylla intermedia copha*
(Jordan)
Polygenis roberti beebei (I. Fox)
" *dunni* (Jordan &
Rothschild)
Rhopalopsyllus cacicus saevus
Jordan & Rothschild
- Didelphis marsupialis** Linnaeus
Opossum, "Zorra"
LA: *Gigantolaelaps inca* Fonseca
" *oudemansi*
Fonseca
Haemolaelaps glasgowi (Ewing)
Laelaps pilifer n. sp.
Tur uniscutatus (Turk)
DE: *Ornithonyssus wernecki*
(Fonseca)
IX: *Amblyomma auricularium*
(Conil)
" *cajennense*
(Fabricius)
" *geayi* Neumann
" *varium* Koch
" sp., N, L
Ixodes luciae Senevet
" *boliviensis* Neumann
" *affinis* Neumann
" sp., N, L
TR: *Ascoschoengastia dyscrita*
Brennan & Jones
- Crotiscus desdentatus* (Boshell &
Kerr)
Euschoengastia megastyrax
Brennan & Jones
Euschoengastia nunezi
(Hoffmann)
" *tragulata*
Brennan & Jones
Eutrombicula alfreddugesi
(Oudemans)
" *goeldii* (Oudemans)
Hoffmannina handleyi Brennan &
Jones
Leptotrombidium panamensis
(Ewing)
Odontacarus fieldi Brennan &
Jones
Pseudoschoengastia bulbifera
Brennan
Sasacarus furmani (Hoffmann)
Trombicula dunni Ewing
" *keenani* Brennan &
Jones
" *longicalcar* Brennan
& Jones
" *manueli* Brennan &
Jones
- SI: *Adoratopsylla intermedia copha*
(Jordan)
Ctenocephalides f. felis (Bouché)
Hoplopsyllus glacialis exoticus
Jordan & Rothschild
Juxtapulex echidnophagoides
Wagner
Pleochaetis d. dolens Jordan &
Rothschild
Polygenis klagesi (Rothschild)
" *roberti beebei* (I. Fox)
Rhopalopsyllus australis tupinus
Jordan & Rothschild
Rhopalopsyllus cacicus saevus
Jordan & Rothschild
Rhopalopsyllus lugubris
cryptoctenes (Enderlein)
- Chironectes minimus** (Zimmermann)
Water Opossum
IX: *Amblyomma oblongoguttatum*
Koch
TR: *Doloisia (Kymocta) chironectes*
Yunker & Brennan
SI: *Rhopalopsyllus australis tupinus*
Jordan & Rothschild
- Order INSECTIVORA
Family Soricidae

Cryptotis nigrescens (J. A. Allen)

Blackish Small-eared Shrew

IX: ? *Dermaecentor* sp., L? *Ixodes* sp., L**Cryptotis** sp.

Small-eared Shrew

TR: *Pseudoschoengastia bulbifera*

Brennan

Order CHIROPTERA

Suborder Microchiroptera

Superfamily Emballonuroidea

Family Emballonuridae

Saccopteryx bilineata Temminck

Greater White-lined Bat

TR: *Beamerella acutascuta* Brennan*Euschoengastia desmodus*

Brennan & Dalmat

Trombicula saccopteryx Brennan
& JonesST: *Strebla alvarezi* n.sp.**Pteropteryx macrotis** (Wagner)

Lesser Doglike Bat

IX: *Ornithodoros azteci* Matheson, LTR: *Tecomatlana sandovali* Hoffmann

Family Noctilionidae

Noctilio labialis labialis (Kerr)

Southern or Little Bulldog Bat

IX: *Ornithodoros hasei* (Schulze), N, LST: *Noctiliostrebla maai* n.sp.*Paradyschiria parvuloides* n.sp.**Noctilio leporinus mexicanus** Goldman

Mexican Bulldog Bat

SP: *Periglischrus aitkeni* n.sp.IX: *Ornithodoros hasei* (Schulze), LST: *Neotrichobius stenopterus*

n.g., n.sp.

Noctiliostrebla traubi n.sp.*Paradyschiria lineata* Kessel**Dirias** sp. (*N. labialis*)ST: *Trichobius joblingi* n.sp.

Superfamily Phyllostomoidea

Family Phyllostomidae

Subfamily Chilonycterinae

Pteronotus parnellii fuscus J. A. Allen(= *Chilonycteris rubiginosa fusca*)

Parnell's Mustached Bat

SP: *Periglischrus species* "D"" *elongatus* n.sp.IX: *Ornithodoros viguerasi* Cooley &
Kohls, LTR: *Alexfainia chilonycteris* Yunker &
Jones*Trombicula anophthalma*

Hoffmann

Vergrandia galei Yunker & JonesST: *Nycterophilina parnelli* n.sp.*Speiseria ambigua* Kessel*Strebla altmani* n.sp.*Trichobius sparsus* Jobling" *yunkeri* n.sp." *joblingi* n.sp." *costalimai* Guimarães**Pteronotus psilotis** (Dobson)(= *Chilonycteris psilotis* Hall & Kelson)

Dobson's Mustached Bat

IX: *Amblyomma* sp., L*Antricola mexicanus* Hoffmann, LTR: *Alexfainia munozi* n.sp.*Perates insessus* Brennan &

Dalmat

Trombicula monops Brennan &

Jones

ST: *Nycterophilina fairchildi* n.sp.*Trichobius johnsonae* n.sp.**Pteronotus suapurensis** (J. A. Allen)

Suapuré Naked-backed Bat

SP: *Periglischrus elongatus* n.sp.TR: *Trombicula tibbettsi* Brennan &
WhiteST: *Nycterophilina fairchildi* n.sp.*Trichobius johnsonae* n.sp." *yunkeri* n.sp.**Pteronotus** sp.IX: *Ornithodoros viguerasi* Cooley &
Kohls, L

Subfamily Phyllostominae

Micronycteris megalotis microtis Miller

Brazilian Small-eared Bat

SP: *Periglischrus micronycteridis*
n.sp.TR: *Beamerella acutascuta* Brennan*Euschoengastia desmodus*

Brennan & Dalmat

Perissopalla precaria (Brennan &
Dalmat)ST: *Strebla alvarezi* n.sp.*Trichobius joblingi* n.sp." *keenani* n.sp.**Micronycteris minuta** (Gervais)SP: *Periglischrus micronycteridis*
n.sp.ST: *Trichobius dugesioides* n.sp.**Micronycteris nicefori** SanbornST: *Parastrebla handleyi* n.g., n.sp.
Strebla alvarezi n.sp.

- Trichobius joblingi* n.sp.
 " *keenani* n.sp.
Micronycteris sylvestris Thomas
 Brown Small-eared Bat
 ST: *Strebla alvarezi* n.sp.
Lonchorhina a. aurita Tomes
 Tomes' Long-eared Bat
 IX: *Ornithodoros azteci* Matheson, L
 ST: *Speiseria ambigua* Kessel
 Strebla altmani n.sp.
 " *carolliae* n.sp.
 Trichobius dugesioides n.sp.
 " *joblingi* n.sp.
 " *macrophylli* n.sp.
 " *yunkeri* n.sp.
Macrophyllum macrophyllum (Schinz)
 Long-legged Bat
 SP: *Periglischrus* species "G"
 ST: *Strebla altmani* n.sp.
 " *carolliae* n.sp.
 Trichobius joblingi n.sp.
 " *macrophylli* n.sp.
Tonatia bidens (Spix)
 Round-eared Bat
 ST: *Strebla galindoi* n.sp.
 Trichobius bequaerti n.sp.
Tonatia minuta Goodwin
 (= *T. nicaraguae* Hall & Kelson)
 Pigmy Round-eared Bat
 ST: *Mastoptera minuta* (Costa Lima)
 Pseudostrebla greenwelli n.sp.
 Strebla hoogstraali n.sp.
 Trichobius mendezi n.sp.
Tonatia s. silvicola (D'Orbigny)
 D'Orbigny's Round-eared Bat
 (= *T. amblyotis* Goldman, *T. silvicola* Hall & Kelson)
 IX: *Ornithodoros hasei* (Schulze), L
 ST: *Mastoptera minuta* (Costa Lima)
 Pseudostrebla ribeiroi Costa Lima
 Strebla kohlsi n.sp.
 Trichobius dybasi n.sp.
Tonatia sp.
 ST: *Trichobius dugesioides* n.sp.
Lonchorhina or **Tonatia** sp.
 NY: *Basilina tiptoni* n.sp.
Bat "like Tonatia"
 NY: *Basilina tiptoni* n.sp.
Mimon crenulatum keenani Handley
 NY: *Basilina tiptoni* n.sp.
Phyllostomus d. discolor Wagner
 ST: *Aspidoptera busckii* Coquillett
 Megistopoda aranea (Coquillett)
 Strebla hertigi n.sp.
 " *mirabilis* (Waterhouse)
 Trichobiodes perspicillatus
 (Pessôa & Galvão)
 Trichobius costalimai Guimarães
 " *longipes* (Rudow)
Phyllostomus hastatus panamensis
 J. A. Allen
 Spear-nosed Bat
 SP: *Periglischrus tiptoni* n.sp.
 " *inflatiseta* n.sp.
 TR: *Blankaartia sinnamaryi* (Floch & Fauran)
 Trombicula carmenae Brennan & Jones
 ST: *Mastoptera guimaraesi* n.sp.
 Speiseria ambigua Kessel
 Strebla carolliae n.sp.
 " *hertigi* n.sp.
 " *mirabilis* (Waterhouse)
 Trichobius joblingi n.sp.
 " *longipes* (Rudow)
 " *parasiticus* Gervais
 " *yunkeri* n.sp.
Phyllostomus sp.
 ST: *Mastoptera guimaraesi* n.sp.
 " *minuta* (Costa Lima)
 Trichobius longipes (Rudow)
 Mixed collection of
Phyllostomus and **Pteronotus** spp.
 ST: *Trichobius longipes* (Rudow)
Phylloderma s. stenops Peters
 Spear-nosed Bat
 (= *P. septentrionalis* Hall & Kelson)
 ST: *Strebla christinae* n.sp.
Trachops c. cirrhosus (Spix)
 Fringe-lipped Bat
 SP: *Periglischrus tiptoni* n.sp.
 " *vargasi* Hoffmann
 IX: *Ornithodoros brodyi* Matheson, L
 " *hasei* (Schulze), L
 ST: *Speiseria ambigua* Kessel
 Strebla altmani n.sp.
 " *carolliae* n.sp.
 " (?) *mirabilis* (Waterhouse)
 Trichobius dugesii Townsend
 " *dugesioides* n.sp.
 " *joblingi* n.sp.
Chrotopterus auritus (Peters)
 Peters' False Vampire Bat
 ST: *Trichobius dugesioides* n.sp.
Vampyrum spectrum (Linnaeus)
 Linnaeus' False Vampire Bat
 TR: *Trombicula longicalcar* Brennan & Jones
 " *vesperuginis* Brennan & Jones

Subfamily Glossophaginae

Glossophaga soricina leachii (Gray)

Pallas' Long-tongued Bat

DE: New genus, n.sp. no. 1

SP: *Periglischrus caligus* KolenatiSPE: *Spelaeorhynchus* sp.TR: *Euschoengastia desmodus*

Brennan & Dalmat

Trombicula vesperuginis Brennan & JonesST: *Eldunnia breviceps* Curran*Speiseria ambigua* Kessel*Strebla carolliae* n.sp.*Trichobius dugesii* Townsend" *joblingi* n.sp." *uniformis* Curran**Lonchophylla robusta** Miller

Panama Long-tongued Bat

SP: *Periglischrus* species "K"ST: *Anastrebla nycteridis* n.sp.*Eldunnia breviceps* Curran*Speiseria ambigua* Kessel*Strebla carolliae* n.sp.*Trichobius joblingi* n.sp." *johnsonae* n.sp." *lonchophyllae* n.sp.**Lionycteris spurrelli** ThomasST: *Trichobius lionycteridis* n.sp.**Anoura cultrata** HandleySP: *Periglischrus vargasi* HoffmannST: *Anastrebla mattadeni* n.sp.*Exastinion clovisi* (Pessôa & Guimarães)**Anoura geoffroyi lasiopyga** Peters

Geoffroy's Tailless Bat

SP: *Periglischrus vargasi* HoffmanST: *Anastrebla mattadeni* n.sp." *modestini* n.sp.*Exastinion clovisi* (Pessôa & Guimarães)

Subfamily Carolliinae

Carollia castanea H. Allen

Allen's Short-tailed Bat

DE: *Radfordiella* n.sp. no. 2TR: *Euschoengastia desmodus*
Brennan & DalmatST: *Speiseria ambigua* Kessel*Strebla carolliae* n.sp.*Trichobius joblingi* n.sp.**Carollia perspicillata azteca** Saussure

Seba's Short-tailed Bat

DE: *Radfordiella* n.sp. no. 2

New genus, n.sp. no. 3

SP: *Periglischrus* sp.SPE: *Spelaeorhynchus* sp.IX: *Amblyomma tapirellum* Dunn*Ornithodoros brodyi* Matheson, LTR: *Alexfainia chilonycteris* Yunker & Jones*Beamerella acutascuta* Brennan*Euschoengastia megastyra*

Brennan & Jones

Trombicula vesperuginis Brennan & JonesST: *Aspidoptera busckii* Coquillett*Mastoptera guimaraesi* n.sp.*Megistopoda aranea* (Coquillett)*Metelasmus pseudopterus*

Coquillett

Nycterophilia parnelli n.sp.*Paratrichobius dunni* (Curran)*Speiseria ambigua* Kessel*Strebla altmani* n.sp." *carolliae* n.sp." *mirabilis* (Waterhouse)" *vespertilionis* (Fabricius)*Trichobius costalimai* Guimarães" *dugesii* Townsend" *dugesioides* n.sp." *joblingi* n.sp." *johnsonae* n.sp." *longipes* (Rudow)" *macrophylli* n.sp." *sparsus* Kessel" *urodermae* n.sp." *yunkeri* n.sp.

Mixed collection of

Carollia p. azteca and**Lonchorhina a. aurita**DE: *Radfordiella* n.sp. no. 2

Mixed collection of

Carollia p. azteca and**Glossophaga s. leachii**ST: *Speiseria ambigua* Kessel*Trichobius dugesii* Townsend" *dugesioides* n.sp." *joblingi* n.sp.**Carollia subrufa** Hahn(= *C. castanea* Hall & Kelson, part.)SPE: *Spelaeorhynchus* sp.TR: *Euschoengastia colombiae*
(Boshell & Kerr)*Euschoengastia desmodus*

(Brennan & Dalmat)

ST: *Speiseria ambigua* Kessel*Strebla carolliae* n.sp.*Trichobius dugesioides* n.sp." *joblingi* n.sp.

Mixed collection of

Carollia sp. and**Natalus s. mexicanus**ST: *Trichobius dugesioides* n.sp.

Subfamily Sturnirinae

Sturnira lilium parvidens Goldman

Yellow-shouldered Bat

SP: *Periglischrus aitkeni* n.sp.ST: *Aspidoptera delatorrei* n.sp.
Megistopoda proxima (Séguy)
Paradyschiria parvuloides n.sp.
Trichobioides perspicillatus
(Pessôa & Galvão)**Sturnira ludovici** Anthony

Anthony's Bat

DE: New genus, n.sp. no. 2

SP: *Periglischrus aitkeni* n.sp.TR: *Pseudoschoengastia bulbifera*

Brennan

Trombicula carmenae Brennan &
Jones" *soucouyanti* n.sp.ST: *Megistopoda theodori* n.sp.*Trichobius brennani* n.sp." *yunkeri* n.sp.**Sturnira** sp.SP: *Periglischrus aitkeni* n.sp.

Subfamily Stenoderminae

Uroderma bilobatum Peters

Tent-making Bat

SP: *Periglischrus iheringi* OudemansIX: *Ornithodoros hasei* (Schulze), LST: *Neotrichobius stenopterus*
n.g., n.sp.*Paratrachobius dunni* (Curran)*Trichobius costalimai* Guimarães" *joblingi* n.sp." *keenani* n.sp." *urodermae* n.sp.**Vampyrops helleri** Peters(= *Platyrrhinus helleri* Hall & Kelson)

Heller's Broad-nosed Bat

SP: *Periglischrus iheringi* OudemansIX: *Amblyomma cajennense*
(Fabricius)

" sp., N

Ornithodoros hasei (Schulze), LST: *Paratrachobius* sp. B**Vampyrops vittatus** (Peters)(= *Platyrrhinus vittatus* Hall & Kelson)

White-lined Bat

DE: *Ichoronyssus* (group II) n.sp.SP: *Periglischrus iheringi* OudemansST: *Paratrachobius* sp.*Speiseria ambigua* Kessel*Trichobius vampyropis* n.sp.**Vampyroides caraccioli major** G. M. Allen(= *V. major* Goldman; *V. major* Hall &
Kelson)SP: *Periglischrus iheringi* OudemansST: *Strebla vespertilionis* (Fabricius)**Vampyressa nymphaea** ThomasST: *Aspidoptera busckii* Coquillett*Metelasmus pseudopterus*

Coquillett

Vampyressa pusilla (Wagner)

Little Yellow-eared Bat

(= *V. minuta* Goldman, *V. thyone* Hall &
Kelson)SP: *Periglischrus iheringi* OudemansTR: *Trombicula dunni* EwingST: *Neotrichobius stenopterus*

n.g., n.sp.

Vampyressa sp.ST: *Paratrachobius dunni* Curran**Chiroderma salvini** Dobson

Salvin's White-lined Bat

SP: *Periglischrus iheringi* OudemansIX: *Amblyomma* sp., NST: *Paratrachobius salvini* n.sp.**Chiroderma villosus** jesupi J. A. Allen(= *C. isthmicum* Goldman; *C. isthmicum*
Hall & Kelson)ST: *Aspidoptera busckii* Coquillett*Paratrachobius* sp. A*Trichobius joblingi* n.sp.**Artibeus aztecus** Andersen

Fruit-eating Bat

(= *A. cinereus* Hall and Kelson, part.)ST: *Paratrachobius* sp.**Artibeus cinereus** (Gervais)

Fruit-eating bat

(= *A. watsoni* Goldman, part.,*A. cinereus* Hall & Kelson, part.)SP: *Periglischrus iheringi* OudemansST: *Neotrichobius stenopterus*

n.g., n.sp.

Paratrachobius lowei n.sp.**Artibeus j. jamaicensis** Leach

Jamaican Fruit-eating Bat

(= *A. planirostris* Goldman)DE: *Ichoronyssus kochi* FonsecaSP: *Periglischrus iheringi* OudemansSPE: *Spelaeorhynchus* sp.NY: *Basilis wenzeli* Guimarães &

D'Andretta

ST: *Aspidoptera busckii* Coquillett*Megistopoda aranea* (Coquillett)*Metelasmus pseudopterus*

Coquillett

Neotrichobius stenopterus

n.g., n.sp.

Paratrachobius longicrus

(M. Ribeiro)

- Strebla carolliae* n.sp.
 " *vespertilionis* (Fabricius)
 " *hertigi* n.sp.
Trichobius joblingi n.sp.
 " *longipes* (Rudow)
 " *uniformis* Curran

Artibeus lituratus palmarum

J. A. Allen & Chapman

Big Fruit-eating Bat

- SP: *Periglischrus iheringi* Oudemans
 ST: *Aspidoptera busckii* Coquillett
Megistopoda aranea (Coquillett)
Metasmsus pseudopterus
 Coquillett
Paratrachobius longicrus
 (M. Ribeiro)
Speiseria ambigua Kessel
Trichobius costalimai Guimarães
 " *joblingi* n.sp.
 " *lonchophyllae* n.sp.
 " *vampyropis* n.sp.
 " *yunkerii* n.sp.

Artibeus toltecus (Saussure)**Fruit-eating Bat**(= *A. watsoni* Goldman, part.,*A. cinereus* Hall & Kelson, part.)DE: *Ichoronyssus kochi* FonsecaTR: *Leptotrombidium panamensis*
 (Ewing)ST: *Paratrachobius* sp.**Artibeus** sp.IX: *Ixodes* sp., L**Enchisthenes hartii** (Thomas)**Little Fruit-eating Bat**

- DE: *Periglischrus iheringi* Oudemans
 ST: *Paratrachobius sanchezi* n.sp.

Phyllostomid bat

DE: New genus, n. sp. no. 1

Family Desmodidae**Desmodus rotundus murinus** Wagner**Vampire Bat**

- DE: *Radfordiella* n.sp. no. 1
 SP: *Periglischrus iheringi* Oudemans
 " *desmodi* n.sp.
 IX: *Ornithodoros azteci* Matheson, L
 " *brodyi* Matheson, L
 ST: *Megistopoda aranea* (Coquillett)
Speiseria ambigua Kessel
Strebla vespertilionis (Fabricius)
 " *hertigi* n.sp.
Trichobius costalimai Guimarães
 " *dugesioides* n.sp.
 " *joblingi* n.sp.
 " *parasiticus* Gervais
 " *uniformis* Curran

Trichobioides perspicillatus
 (Pessôa & Galvão)

Diaemus youngii cypselinus ThomasST: *Strebla diaemi* n.sp.*Trichobius parasiticus* Gervais**"Vampire bats"**ST: *Trichobius parasitus* Gervais**Superfamily Vespertilionoidea****Family Natalidae****Natalus stramineus mexicanus** Miller**Mexican Funnel-eared Bat**

- SP: *Periglischrus natali* n.sp.
 ST: *Nycterophilia natali* n.sp.
Speiseria ambigua Kessel
Strebla carolliae n.sp.
Trichobius dugesioides n.sp.
 " *galei* n.sp.
 " *joblingi* n.sp.

Natalus sp.ST: *Trichobius galei* n.sp.**Family Vespertilionidae****Subfamily Vespertilioninae****Myotis albescens** (E. Geoffroy St.-Hilaire)**Paraguay Myotis**

- SP: *Spinturnix americanus* (Banks)
 NY: *Basilis dunni* Curran

Myotis chiloensis (Waterhouse)

- DE: *Ichoronyssus crosbyi* (Ewing &
 Stover)
 " (group III) n.sp.
 no. 1

- SP: *Periglischrus tiptoni* n.sp.
Spinturnix americanus (Banks)
 ST: *Anatrachobius scorzai* n.g., n.sp.
Joblingia schmidtii Dybas &
 Wenzel

Myotis n. nigricans (Schinz)**Black Myotis**

- DE: *Ichoronyssus robustipes* (Ewing)
 " (group III) n.sp.
 no. 1
 SP: *Spinturnix americanus* (Banks)
 " sp.
 IX: *Antricola mexicanus* Hoffmann, L
Dermacentor halli McIntosh, N
 TR: *Trombicula monops* Brennan &
 Jones
 SI: *Sternopsylla distincta speciosa*
 Johnson
 NY: *Basilis anceps* Guimarães &
 D'Andretta
Basilis myotis Curran
 " *dunni* Curran

- ST: *Anatrichobius scorzai* n.g., n.sp.
Joblingia schmidti Dybas & Wenzel
- Mixed lots of
Myotis nigricans and
Myotis chiloensis
 DE: *Ichoronyssus crosbyi* (Ewing & Stover)
 SP: *Paraspinturnix globosus* Rudnick
Spinturnix americanus (Banks)
 SI: *Sternopsylla distincta speciosa* Johnson
 ST: *Anatrichobius scorzai* n.g., n.sp.
Joblingia schmidti Dybas & Wenzel
- Myotis simus riparius** Handley
 SP: *Spinturnix americanus* (Banks)
 NY: *Basilina anceps* Guimarães & D'Andretta
- Myotis** sp.
 TR: *Trombicula soucouyanti* n.sp.
 ST: *Anatrichobius scorzai* n.g., n.sp.
Joblingia schmidti Dybas & Wenzel
- Eptesicus brasiliensis propinquus** (Peters)
 Brazilian Brown Bat
 NY: *Basilina wenzeli* Guimarães & D'Andretta
- Rhogeessa tumida** H. Allen
 Little Yellow Bat
 SP: *Spinturnix subacuminatus* n.sp.
- Lasiurus borealis frantzii** (Peters)
 Red Bat
 NY: *Basilina ferruginea* M. Ribeiro
- Lasiurus castaneus** Handley
 NY: *Basilina handleyi* n.sp.
- Lasiurus egregius** Peters
 ST: *Strebla carolliae* n.sp.
 " *vespertilionis* (Fabricius)
- Family Molossidae**
- Molossops p. planirostris** (Peters)
 PO: *Hesperoctenes fumarius* (Westwood)
- Tadarida b. brasiliensis** (I. Geoffroy St.-Hilaire)
 Brazilian Free-tailed Bat
 DE: *Ichoronyssus robustipes* (Ewing)
 SP: *Spinturnix* sp.
 SI: *Sternopsylla d. speciosa* Johnson
- Tadarida yucatanica** (Miller)
 Yucatan Free-tailed Bat
 SI: *Hormopsylla kyriophila* n.sp.
Ptilopsylla dunni Kohls
Rhynchopsyllus megastigmata Traub & Gammons
Sternopsylla d. speciosa Johnson
- Molossus bondae** J. A. Allen
 Bonda Mastiff Bat
 ST: *Trichobius dunni* n.sp.
- Molossus coibensis** J. A. Allen
 DE: *Ichoronyssus venezolanus* (Vitzthum)
 SI: *Hormopsylla kyriophila* n.sp.
Ptilopsylla dunni Kohls
 PO: *Hesperoctenes* sp.
- Molossus** sp.
 IX: *Ornithodoros hasei* (Schulze), L
- "Eumops bonariensis nanus"**
 (? *E. amazonicus* Handley)
 PO: *Hesperoctenes* sp.
- "Eumops glaucinus"** (Wagner)
 (? *E. auripendulus* Shaw)
 PO: *Hesperoctenes angustatus* Ferris & Usinger
- Molossid bat**
 DE: *Ichoronyssus haematophagus* (Fonseca)
- Miscellaneous**
- Bat**
 DE: *Ichoronyssus venezolanus* (Vitzthum)
Steatonyssus occidentalis (Ewing)
 SPE: *Spelaeorynchus latus* Banks
 TR: *Alexfainia munozi* n.sp.
Euschoengastia desmodus Brennan & Dalmat
Euschoengastia megastyrax Brennan & Jones
Eutrombicula goeldii (Oudemans)
Tecomatlana sandovali Hoffmann
Trombicula longicalcar Brennan & Jones
 " *monops* Brennan & Jones
 " *vesperuginis* Brennan & Jones
- Bat guano from roosting place of
Myotis nigricans, **M. chiloensis**, and
Tadarida brasiliensis
 SI: *Sternopsylla distincta speciosa* Johnson
 ST: *Joblingia schmidti* Dybas & Wenzel
- Bat guano from roosting place of
Tadarida yucatanica
 SI: *Hormopsylla kyriophila* n.sp.
Ptilopsylla dunni Kohls
Rhynchopsyllus megastigmata Traub & Gammons

Bat guano from roosting place of

Pteronotus psilotis

IX: *Antricola mexicanus* Hoffman

Order PRIMATES

Family Cebidae

Aotus trivirgatus (Humboldt)

Night Monkey

TR: *Eutrombicula alfreddugesi*

(Oudemans)

" *goeldii* (Oudemans)

Alouatta villosa (Gray)

Howler Monkey

AN: *Pediculus atelophilus* Ewing

Cebus capucinus (Linnaeus)

Capuchin

AN: *Pediculus atelophilus* Ewing

" *chapini* Ewing

Ateles fusciceps Gray

Black Spider Monkey

(= *A. dariensis* Goldman)

AN: *Pediculus atelophilus* Ewing

Ateles geoffroyi Kuhl

Geoffroy's Spider Monkey

AN: *Pediculus atelophilus* Ewing

Family Callithricidae

Saguinus geoffroyi (Pucheran)

Geoffroy's Tamarin

TR: *Eutrombicula alfreddugesi*

(Oudemans)

" *goeldii* (Oudemans)

Pseudoschoengastia bulbifera

Brennan

Family Hominidae

Homo sapiens Linnaeus

IX: *Amblyomma tapirellum* Dunn

" *cajennense*

(Fabricius)

" *oblongoguttatum*

Koch

" *ovale* Koch

" *naponense*

(Packard)

" *parvum* Aragão

" *sabanerae* Stoll

" sp., N

Dermacentor latus Cooley

" *imitans* Warburton

Ixodes boliviensis Neumann

Rhipicephalus sanguineus

(Latreille)

TR: *Eutrombicula batatas* (Linnaeus)

AN: *Pediculus humanus* Linnaeus

Phthirus pubis (Linnaeus)

SI: *Ctenocephalides f. felis* (Bouché)

Juxtapulex echidnophagoides

Wagner

Pulex simulans Baker

Rhopalopsyllus australis tupinus

Jordan & Rothschild

Rhopalopsyllus l. lugubris

Jordan & Rothschild

Rhopalopsyllus l. cryptoctenes

(Enderlein)

Order EDENTATA

Family Myrmecophagidae

Myrmecophaga tridactyla Linnaeus

Giant Anteater

IX: *Amblyomma calcaratum*

Neumann

" *nodosum* Neumann

" *oblongoguttatum*

Koch

" *pictum* Neumann

" *tapirellum* Dunn

" sp., N

Tamandua tetradactyla (Linnaeus)

Tamandua, Common Anteater

IX: *Amblyomma auricularium*

(Conil)

" *cajennense*

(Fabricius)

" *calcaratum*

Neumann

" *naponense*

(Packard)

" *nodosum* Neumann

" *oblongoguttatum*

Koch

" *parvum* Aragão

" sp., N, L

SI: *Rhopalopsyllus australis tupinus*

Jordan & Rothschild

Cyclopes didactylus (Linnaeus)

Two-toed Anteater,

Pygmy or Silky Anteater

IX: *Amblyomma* sp., N, L

Family Bradypodidae

Bradypus infuscatus Wagler

Gray Three-toed Sloth, "Perico lijero"

IX: *Amblyomma geayi* Neumann

" *varium* Koch

" sp., N, L

TR: *Trombicula pecari* Brennan &

Jones

" *dunni* Ewing

Choloepus hoffmanni Peters

Two-toed Sloth, "Perico lijero"

- IX: *Amblyomma calcaratum*
 Neumann
 geayi Neumann
 oblongoguttatum
 Koch
 varium Koch

Family Dasypodidae

Cabassous centralis (Miller)

Central American Five-toed Armadillo

- IX: *Amblyomma auricularium*
 (Conil)

TR: *Blix cabasso* n.sp.**Dasypus novemcinctus** Linnaeus

Nine-banded Armadillo

- IX: *Amblyomma auricularium*
 (Conil)
 cajennense
 (Fabricius)
 oblongoguttatum
 Koch
 ovale Koch
 sp., N, L

Ixodes sp., L

- TR: *Aniatus bifax* Brennan & Jones
Eutrombicula goeldii (Oudemans)
Myxacarus oscillatus n.sp.
Pseudoschoengastia apista n.sp.
 dasyi n.sp.
Trombicula dunni Ewing
Vargatula hispida n. sp.
SI: *Juxtapulex echidnophagoides*
 Wagner
Rhopalopsyllus cacticus saevus
 Jordan & Rothschild

Miscellaneous

Animal burrows (probably Armadillo)

- SI: *Rhopalopsyllus cacticus saevus*
 Jordan & Rothschild

Order LAGOMORPHA

Family Leporidae

Sylvilagus brasiliensis (Linnaeus)

Forest Rabbit

- IX: *Amblyomma* sp., N
Dermacentor sp., N
Haemaphysalis leporispalustris
 (Packard)
Ixodes pomerantzi Kohls
Ornithodoros puertoricensis
 Fox, L
TR: *Trombicula dunni* Ewing

Eutrombicula alfreddugesi

(Oudemans)

" *goeldii* (Oudemans)SI: *Ctenocephalides f. felis* (Bouché)*Hoplopsyllus glacialis exoticus*

Jordan & Rothschild

Rhopalopsyllus australis tupinus

Jordan & Rothschild

Oryctolagus cuniculus Linnaeus

Domestic Rabbit

- IX: *Rhipicephalus sanguineus*
 (Latreille)

Order RODENTIA

Suborder Sciuromorpha

Family Sciuridae

Sciurus granatensis Humboldt

Tropical Red Squirrel, "Ardilla"

LA: *Haemolaelaps glasgowi* (Ewing)DE: *Hirstionyssus keenani* n.sp.IX: *Amblyomma* sp., N, L*Ixodes tiptoni* Kohls and Clifford" sp., probably *tiptoni*, L

TR: *Eutrombicula alfreddugesi*
 (Oudemans)

" *goeldii* (Oudemans)

Odontacarus fieldi Brennan &
 Jones

Trombicula dicrura Brennan &
 Jones

" *dunni* Ewing

" *keenani* Brennan &
 Jones

" *manueli* Brennan &
 Jones

AN: *Enderleinellus* sp. (*longiceps*
 group)

Neohaematopinus sp. (*sciurinus*
 group)

SI: *Dasyptillus gallinulae*
 perpinnatus (Baker)

Juxtapulex echidnophagoides
 Wagner

Kohlsia g. graphis (Rothschild)" *tiptoni* Mendez & Altman" *traubi* Tipton & Mendez

Pleochaetis d. dolens Jordan &
 Rothschild

Polygenis dunni (Jordan &
 Rothschild)

Polygenis roberti beebei (I. Fox)

Rhopalopsyllus australis tupinus
 Jordan & Rothschild

Rhopalopsyllus sp.

Strepsylla dalmati Traub &
 Barrera

Sciurus granatensis chiriquensis BangsDE: *Hirstionyssus keenani* n.sp.**Sciurus variegatoides** Ogilby

Variegated Squirrel

DE: *Hirstionyssus keenani* n.sp.AN: *Neohaemotopinus* sp. (*sciurinus* group)**Microsciurus alfari** (J. A. Allen)

Alfaro's Pygmy Squirrel

TR: *Eutrombicula goeldii* (Oudemans)*Trombicula dunni* Ewing

Family Geomyidae

Macrogeomys cavator Bangs

Chiriqui Pocket Gopher

MA: *Geomydoecus* n.sp.

Family Heteromyidae

Liomys adpersus

Panama Spiny Pocket Mouse

LA: *Haemolaelaps glasgowi* (Ewing)*Steptolaelaps heteromys* (Fox)DE: *Hirstionyssus microchelae* n.sp.*Ornithonyssus bacoti* (Hirst)IX: *Amblyomma* sp., LTR: *Ascoschoengastia dyscrita*

Brennan & Jones

Crotonasis fissa n.sp.*Eutrombicula goeldii* (Oudemans)*Leptotrombidium panamensis*

(Ewing)

Odontacarus fieldi Brennan &

Jones

Polylopadium kramisi Brennan &

Jones

Pseudoschoengastia bulbifera

Brennan

" *zona* Brennan*Trombicula liomys* Brennan &

Jones

Vanidicus tricosus Brennan &

Jones

AN: *Fahrenholzia fairchildi* JohnsonSI: *Ctenocephalides f. felis* (Bouché)*Polygenis dunni* (Jordan &

Rothschild)

" *klagesi* (Rothschild)**Heteromys australis** Thomas

Southern Spiny Pocket Mouse

LA: *Steptolaelaps heteromys* (Fox)*Haemolaelaps glasgowi* (Ewing)TR: *Eutrombicula goeldii* (Oudemans)*Leptotrombidium panamensis*

(Ewing)

Pseudoschoengastia bulbifera

Brennan

Pseudoschoengastia zona Brennan*Trombicula dunni* Ewing" *keenani* Brennan &
JonesSI: *Polygenis klagesi* (Rothschild)**Heteromys desmarestianus** Gray

Desmarest's Spiny Pocket Mouse

LA: *Eubrachylaelaps jamesoni*

Furman

Haemolaelaps glasgowi (Ewing)*Steptolaelaps heteromys* (Fox)*Tur uniscutatus* (Turk)DE: *Hirstionyssus heteromydis* n.sp." *lunatus* n.sp." *microchelae* n.sp." *minutus* n.sp." *panamensis* n.sp.TR: *Ascoschoengastia dyscrita*

Brennan & Jones

Crotiscus desdentatus (Boshell &
Kerr)*Euschoengastia belgicae* n.sp.*Eutrombicula alfreddugesi*

(Oudemans)

" *goeldii* (Oudemans)*Hoffmannina handleyi* Brennan &
Jones*Dolopsis (Kymocta) teratarsalis*

Yunker & Brennan

Pseudoschoengastia bulbifera

Brennan

" *finitima* n.sp.*Sasacarus furmani* (Hoffmann)*Trombicula dicrura* Brennan &

Jones

" *dunni* Ewing" *keenani* Brennan &

Jones

Vanidicus tricosus Brennan &

Jones

AN: *Fahrenholzia fairchildi* Johnson" *hertigi* JohnsonSI: *Kohlsia traubi* Tipton & Mendez*Pleochaetis d. dolens* (Jordan &

Rothschild)

Polygenis roberti beebei (I. Fox)*Wenzella yunkerii* n.sp.**Heteromys** sp.IX: *Amblyomma* sp., N, L*Dermacentor* sp., N

Suborder Myomorpha

Family Cricetidae

Oryzomys albigularis (Tomes)(= *O. devius* Goldman, *O. devius* Hall &
Kelson)

White-breasted Rice Rat

- LA: *Gigantolaelaps inca* Fonseca
Laelaps thori Fonseca
 TR: *Pseudoschoengastia bulbifera*
 Brennan
 CO: *Amblyopinus emarginatus*
 Seevers
 SI: *Kohlsia keenani* Tipton & Mendez
Pleochaetis althmani Tipton &
 Mendez
 " *d. dolens* (Jordan &
 Rothschild)
Polygenis atopus Jordan &
 Rothschild

Oryzomys alfaroi (J. A. Allen)

Alfaro's Rice Rat

- LA: *Haemolaelaps glasgowi* (Ewing)
Gigantolaelaps gilmorei Fonseca
 " *inca* Fonseca
 " *oudemansi*
 Fonseca
Laelaps castroi Fonseca
 " *paulistanensis* Fonseca
 TR: *Eutrombicula alfreddugesi*
 (Oudemans)
Pseudoschoengastia bulbifera
 Brennan
 SI: *Kohlsia keenani* Tipton & Mendez
 " *traubi* Tipton & Mendez
Pleochaetis d. dolens (Jordan &
 Rothschild)
Polygenis roberti beebei (I. Fox)

Oryzomys bicolor (Tomes)

- LA: *Gigantolaelaps oudemansi*
 Fonseca
Laelaps sp.

Oryzomys bombycinus Goldman

Silky Rice Rat

- LA: *Haemolaelaps glasgowi* (Ewing)
Gigantolaelaps gilmorei Fonseca
 " *oudemansi*
 Fonseca
Laelaps pilifer n.sp.
 TR: *Leptotrombidium panamensis*
 (Ewing)
Pseudoschoengastia bulbifera
 Brennan
 SI: *Polygenis roberti beebei* (I. Fox)
 " *klagesi* (Rothschild)

Oryzomys caliginosus (Tomes)

Dusky Rice Rat

- LA: *Haemolaelaps glasgowi* (Ewing)
Gigantolaelaps gilmorei Fonseca
 " *oudemansi*
 Fonseca
 " *wolffsohni*
 (Oudemans)

Laelaps dearmasi Furman &
Tipton" *pilifer* n.sp.

- TR: *Ascoschoengastia dyscrita*
 Brennan & Jones
Eutrombicula goeldii (Oudemans)
Intercutestrix tryssa (Brennan &
 Jones)
Leptotrombidium panamensis
 (Ewing)
Polylopadium confirmatum n.sp.
Pseudoschoengastia bulbifera
 Brennan
 " *zona* Brennan

Trombicula dunni Ewing

- AN: *Hoplopleura oryzomydis* Pratt &
 Lane

- SI: *Adoratopsylla intermedia copha*
 (Jordan)
Polygenis roberti beebei (I. Fox)
Ctenocephalides f. felis (Bouché)
Rhopalopsyllus l. lugubris Jordan
 & Rothschild

Oryzomys capito (Olfers)

(= *O. talamancae* Goldman, *O. talamancae*
 Hall and Kelson, *O. laticeps* auct.)

- LA: *Gigantolaelaps gilmorei* Fonseca
 " *oudemansi*
 Fonseca
 " *wolffsohni*
 (Oudemans)

Haemolaelaps glasgowi (Ewing)*Laelaps dearmasi* Furman &
Tipton" *pilifer* n.sp." *thori* Fonseca*Mysolaelaps parvispinosus*
Fonseca

- TR: *Ascoschoengastia dyscrita*
 Brennan & Jones
Euschoengastia cunctata
 Brennan & Jones
Eutrombicula alfreddugesi
 (Oudemans)
 " *goeldii* (Oudemans)
Intercutestrix tryssa (Brennan &
 Jones)
Leptotrombidium panamensis
 (Ewing)
Myxacarus oscillatus n.sp.
Pseudoschoengastia abditiva
 Brennan
 " *bulbifera* Brennan
Trombicula dunni Ewing
 " *keenani* Brennan &
 Jones

- SI: *Jellisonia* sp.

- Polygenis roberti beebei* (I. Fox)
 " *klagesi* (Rothschild)
 " *dunni* (Jordan & Rothschild)
- Oryzomys fulvescens** (Saussure)
 Pygmy Rice Rat
 LA: *Eubrachylaelaps jamesoni* Furman
Gigantolaelaps oudemansi Fonseca
 " *wolffsohni* (Oudemans)
Haemolaelaps glasgowi (Ewing)
Laelaps castroi Fonseca
Mysolaelaps parvispinosus Fonseca
 TR: *Trombicula caccabulus* Brennan & Jones
 SI: *Kohlsia keenani* Tipton & Mendez
 " *traubi* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
 " *d. dolens* (Jordan & Rothschild)
Strepsylla dalmati Traub & Barrera
- Oryzomys** sp.
 LA: *Steptolaelaps heteromys* (Fox)
 TR: *Eutrombicula alfreddugesi* (Oudemans)
Pseudoschoengastia bulbifera Brennan
 IX: *Amblyomma ovale* Koch
 " sp., N, L
Dermacentor sp., L
Ixodes luciae Senevet
 " *venezuelensis* Kohls
 " sp., N, L
- Nectomys alfari** (J. A. Allen)
 Alfaro's Water Rat
 LA: *Echinolaelaps lowei* n.sp.
Gigantolaelaps gilmorei Fonseca
 " *oudemansi* Fonseca
 " *wolffsohni* (Oudemans)
Haemolaelaps glasgowi (Ewing)
 TR: *Crotiscus desdentatus* (Boshell & Kerr)
Eutrombicula goeldii (Oudemans)
Pseudoschoengastica bulbifera Brennan
 SI: *Polygenis roberti beebei* (I. Fox)
- Tylomys panamensis** (Gray)
 Panama Climbing Rat
 LA: *Haemolaelaps glasgowi* (Ewing)
Steptolaelaps heteromys (Fox)
- SI: *Polygenis klagesi* (Rothschild)
Tylomys watsoni Thomas
 Watson's Climbing Rat
 TR: *Ascoschoengastia dyscrita* Brennan & Jones
Euschoengastia enhebra n.sp.
Intercutestrix tryssa (Brennan & Jones)
Doloisia (Kymocta) teratarsalis Yunker & Brennan
Pseudoschoengastia zona Brennan
Sasacarus furmani (Hoffmann)
- Nyctomys sumichrasti** (Saussure)
 Sumichrast's Vesper Rat
 LA: *Haemolaelaps glasgowi* (Ewing)
 SI: *Pleochaetis d. dolens* (Jordan & Rothschild)
- Reithrodontomys creper** Bangs
 Chiriqui Harvest Mouse
 LA: *Eubrachylaelaps jamesoni* Furman
Haemolaelaps glasgowi (Ewing)
 TR: *Hoffmannina suriana* (Hoffmann)
Trombicula dicrura Brennan & Jones
 " *keenani* Brennan & Jones
 CO: *Amblyopinus tiptoni* n. sp.
 SI: *Jellisonia johnsonae* Tipton & Mendez
Juxtapulex echidnophagoides Wagner
Kohlsia traubi Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
 " *d. dolens* (Jordan & Rothschild)
Strepsylla dalmati Traub & Barrera
- Reithrodontomys creper** and
Reithrodontomys spp.
 IX: *Amblyomma* sp., L
Dermacentor sp., N, L
Ixodes sp., N
- Reithrodontomys mexicanus** (Saussure)
 Mexican Harvest Mouse
 LA: *Haemolaelaps glasgowi* (Ewing)
 TR: *Eutrombicula alfreddugesi* (Oudemans)
Hoffmannina handleyi Brennan & Jones
Trombicula caccabulus Brennan & Jones
 " *dicrura* Brennan & Jones

- Trombicula keenani* Brennan & Jones
SI: *Jellisonia johnsonae* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Strepsylla dalmati Traub & Barrera
- Reithrodontomys sumichrasti** (Saussure)
Sumichrast's Harvest Mouse
LA: *Gigantolaelaps gilmorei* Fonseca
Haemolaelaps glasgowi (Ewing)
TR: *Hoffmannina suriana* (Hoffmann)
SI: *Jellisonia johnsonae* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Strepsylla dalmati Traub & Barrera
- Reithrodontomys sp.**
TR: *Eutrombicula batatas* (Linnaeus)
Hoffmannina handleyi Brennan & Jones
Pseudoschoengastia bulbifera Brennan
Trombicula chiriquensis Brennan & Jones
AN: *Hoplopleura hesperomydis* Osborn
- Peromyscus flavidus** (Bangs)
Yellow Deer Mouse
LA: *Gigantolaelaps inca* Fonseca
" *oudemansi* Fonseca
Laelaps thori Fonseca
TR: *Eutrombicula alfreddugesi* (Oudemans)
Trombicula dunni Ewing
CO: *Amblyopinus emarginatus* Seevers
SI: *Kohlsia azuerensis* n. sp.
- Peromyscus n. nudipes** (J. A. Allen)
Naked-footed Deer Mouse
LA: *Eubrachylaelaps jamesoni* Furman
Gigantolaelaps inca Fonseca
Haemolaelaps glasgowi (Ewing)
Laelaps castroi Fonseca
DE: *Hirstionyssus galindoi* n. sp.
TR: *Cordiseta mexicana* (Hoffmann)
Euschoengastia libertatis Brennan & Jones
" *spissa* Brennan & Jones
- Eutrombicula alfreddugesi* (Oudemans)
Hoffmannina handleyi Brennan & Jones
" *suriana* (Hoffmann)
Pseudoschoengastia bulbifera Brennan
Trombicula caccabulus Brennan & Jones
" *dicrura* Brennan & Jones
" *dunni* Ewing
" *keenani* Brennan & Jones
" *tiptoni* Brennan & Jones
AN: *Hoplopleura hesperomydis* Osborn
CO: *Amblyopinus tiptoni* n. sp.
SI: *Ctenocephalides f. felis* (Bouché)
Jellisonia johnsonae Tipton & Mendez
Kohlsia keenani Tipton & Mendez
" *mojica* n.sp.
" *traubi* Tipton & Mendez
Pleochaetis altmani Tipton & Mendez
" *d. dolens* (Jordan & Rothschild)
Polygenis atopus (Jordan & Rothschild)
" *roberti beebei* (I. Fox)
Strepsylla dalmati Traub & Barrera
- Peromyscus sp. ? pirrensis**
SI: *Kohlsia azuerensis*
- Peromyscus sp.**
IX: *Amblyomma* sp., N, L
Dermacentor sp., N, L
Haemaphysalis leporispalustris (Packard), L
Ixodes sp., N, L
TR: *Polylopadium kramisi* Brennan & Jones
Pseudoschoengastia bulbifera Brennan
Trombicula chiriquensis Brennan & Jones
- Zygodontomys microtinus** (Thomas)
(= *Z. cherriei* Goldman, *Z. cherriei* Hall & Kelson)
- Cane Rat
LA: *Gigantolaelaps gilmorei* Fonseca
" *goyanensis* Fonseca
" *oudemansi* Fonseca
" *wolffsohni* (Oud.)

- Haemolaelaps glasgowi* (Ewing)
Laelaps dearmasi Furman & Tipton
 DE: *Ornithonyssus bacoti* (Hirst)
 IX: *Ixodes luciae* Senevet, N
 " *venezuelensis* Kohls
 Amblyomma ovale Koch, N
 " sp., N, L
 TR: *Eutrombicula alfreddugesi* (Oudemans)
 " *batatas* (Linnaeus)
 " *goeldii* (Oudemans)
Leptotrombidium panamensis (Ewing)
Odontacarus fieldi Brennan & Jones
Pseudoschoengastia bulbifera Brennan
 AN: *Fahrenholzia hertigi* Johnson
 SI: *Polygenis dunni* (Jordan & Rothschild)
 " *klagesi* (Rothschild)
 " *roberti beebei* (I. Fox)
Rhopalopsyllus australis tupinus J. & R.
 " *l. lugubris* Jordan & Rothschild
Scotinomys teguina (Alston)
 Alston's Brown Mouse
 LA: *Haemolaelaps glasgowi* (Ewing)
 TR: *Cordiseta mexicana* (Hoffmann)
 Eutrombicula alfreddugesi (Oudemans)
 Hoffmannina handleyi Brennan & Jones
 Trombicula caccabulus Brennan & Jones
 " *chiriquensis* Brennan & Jones
 " *dicrura* Brennan & Jones
 " *keenani* Brennan & Jones
 AN: *Hoplopleura hesperomydis* Osborn
 SI: *Jellisonia johnsonae* Tipton & Mendez
 Kohlsia keenani Tipton & Mendez
 Pleochaetis d. dolens (Jordan & Rothschild)
 Plocopsylla scotinomi n. sp.
Scotinomys xerampelinus (Bangs)
 Chiriqui Brown Mouse
 LA: *Haemolaelaps glasgowi* (Ewing)
 DE: *Hirstionyssus galindoi* n. sp.
 IX: *Ixodes* sp., L
 Dermacentor sp., L
 ? *Amblyomma* sp., L
 TR: *Eutrombicula alfreddugesi* (Oudemans)
 Hoffmannina suriana (Hoffmann)
 Pseudoschoengastia bulbifera Brennan
 Trombicula dicrura Brennan & Jones
 SI: *Jellisonia johnsonae* Tipton & Mendez
 Kohlsia keenani Tipton & Mendez
 Pleochaetis altmanni Tipton & Mendez
 " *d. dolens* (Jordan & Rothschild)
 Plocopsylla scotinomi n. sp.
 Strepsylla dalmati Traub & Barrera
Sigmodon hispidus Say & Ord
 Hispid Cotton Rat
 LA: *Gigantolaelaps gilmorei* Fonseca
 " *oudemansi* Fonseca
 " *wolffsohni* (Oudemans)
 Haemolaelaps glasgowi (Ewing)
 Laelaps dearmasi Furman & Tipton
 DE: *Acanthonyssus dentipes* (Strandtmann & Eads)
 Ornithonyssus bacoti (Hirst)
 IX: *Amblyomma auricularium* (Conil), N
 " sp., N, L
 ? *Ixodes* sp., L
 TR: *Ascoschoengastia dyscrita* Brennan & Jones
 Crotiscus desdentatus (Boshell & Kerr)
 Eutrombicula alfreddugesi (Oudemans)
 " *batatas* (Linnaeus)
 " *goeldii* (Oudemans)
 Intercutestrix tryssa (Brennan & Jones)
 Leptotrombidium panamensis (Ewing)
 Odontacarus fieldi Brennan & Jones
 Pseudoschoengastia bulbifera Brennan
 " *zona* Brennan
 Trombicula dunni Ewing
 MA: *Gliricola panamensis* Werneck
 AN: *Hoplopleura hirsuta* Ferris
 SI: *Polygenis dunni* (Jordan & Rothschild)
 " *klagesi* (Rothschild)

Family Muridae

Rattus norvegicus (Berkenhout)

Norway Rat

LA: *Laelaps nuttalli* HirstSI: *Pulex simulans* Baker**Rattus rattus** (Linnaeus)

Black Rat

LA: *Echinolaelaps echidninus*
(Berlese)*Haemolaelaps glasgowi* (Ewing)*Laelaps dearmasi* Furman &

Tipton

" *nuttalli* HirstDE: *Ornithonyssus bacoti* (Hirst)TR: *Eutrombicula goeldii* (Oudemans)AN: *Polyplax spinulosa* (Burmeister)SI: *Xenopsylla cheopis* Rothschild**Rattus** sp.IX: *Ornithodoros puertoricensis* Fox, L**Mus musculus** Linnaeus

House Mouse

SI: *Pleochaetis d. dolens* (Jordan &
Rothschild)

Family Erethizontidae

Coendou mexicanus (Kerr)

Mexican Porcupine

IX: *Dermacentor halli* McIntosh*Ixodes boliviensis* Neumann

" sp., N, L

TR: *Trombicula keenani* Brennan &
JonesMA: *Eutrichophilus maximus* BedfordSI: *Ctenocephalides f. felis* (Bouché)*Juxtapulex echidnophagoides*

Wagner

Polygenis klagesi (Rothschild)**Coendou rothschildi** Thomas

Rothschild's Porcupine

DE: *Ornithonyssus coendou* n. sp.IX: *Amblyomma longirostre* (Koch)

" sp., N, L

Haemaphysalis juxtakochi

Cooley, N

TR: *Euschoengastia tragulata*
Brennan & Jones*Eutrombicula alfreddugesi*

(Oudemans)

" *goeldii* (Oudemans)*Leptotrombidium panamensis*

(Ewing)

Pseudoschoengastia mermeriza
n. sp.*Speleocola secunda* Brennan &
Jones*Trombicula dicrura* Brennan &

Jones

" *longicalcar* Brennan
& JonesMA: *Eutrichophilus maximus* Bedford

Family Caviidae

Cavia porcellus (Linnaeus)

Guinea Pig (Domestic)

MA: *Gliricola ovalis* Burmeister" *porcelli* (Schränk)*Trimenopon hispidum*
(Burmeister)

Family Hydrochaeridae

Hydrochaeris hydrochaeris (Linnaeus)

Capybara

IX: *Amblyomma auricularium* (Conil)*Rhipicephalus sanguineus*

(Latreille)

TR: *Blankaartia alleei* (Ewing)*Eutrombicula alfreddugesi*

(Oudemans)

" *batatas* (Linnaeus)

Family Dasyproctidae

Agouti paca (Linnaeus)

Paca, "Conejo pintado"

IX: *Amblyomma coelebs* Neumann" *pacae* Aragão

" sp., N

Ixodes lasallei Mendez & Ortiz

" sp., N, L

TR: *Eutrombicula alfreddugesi*

(Oudemans)

MA: *Macroglyropus costalimai*

(Werneck)

SI: *Rhopalopsyllus australis tupinus*

Jordan & Rothschild

Rhopalopsyllus cacticus saevus

Jordan & Rothschild

Rhopalopsyllus l. cryptoctenes

(Enderlein)

Rhopalopsyllus l. lugubris

(Jordan & Rothschild)

Dasyprocta punctata Gray

Agouti, "Ñequi"

IX: *Amblyomma obongoguttatum*
Koch" *pacae* Aragão

" sp., N, L

Ixodes lasallei Mendez & Ortiz

" sp., N

TR: *Eutrombicula goeldii* (Oudemans)*Trombicula dasyproctae* Ewing" *dunni* Ewing

- SI: *Polygenis klagesi* (Rothschild)
Rhopalopsyllus australis tupinus
 Jordan & Rothschild
Rhopalopsyllus cacticus saevus
 Jordan & Rothschild
Rhopalopsyllus l. lugubris
 Jordan & Rothschild

Suborder Hystricomorpha

Family Echimyidae

Proechimys semispinosus (Tomes)

Tomes' Spiny Rat

- LA: *Tur uniscutatus* (Turk)
Gigantolaelaps gilmorei Fonseca
Haemolaelaps glasgowi (Ewing)
Laelaps dearmasi Furman &
 Tipton
 " *nuttalli* Hirst
 " *pilifer* n. sp.
 DE: *Acanthonyssus dentipes*
 (Strandtmann & Eads)
Ornithonyssus bacoti (Hirst)
 IX: *Amblyomma ovale* Koch, N
 " sp., N, L
Haemaphysalis juxtakochi
 Cooley, N
Ixodes sp., N
 TR: *Ascoschoengastia dyscrita*
 Brennan & Jones
Crotiscus desdentatus (Boshell &
 Kerr)
Eutrombicula alfreddugesi
 (Oudemans)
 " *goeldii* (Oudemans)
Intercutestrix tryssa (Brennan &
 Jones)
Leptotrombidium panamensis
 (Ewing)
Myxacaros ocillatus n.sp.
Odontacaros chiapanensis
 (Hoffmann)
 " *fieldi* Brennan &
 Jones
Polylopadium kramisi Brennan &
 Jones
Pseudoschoengastia bulbifera
 Brennan
Sasacarus furmani (Hoffmann)
Trombicula cribanus Brennan &
 Jones
 " *dunni* Ewing
 " *keenani* Brennan &
 Jones
 MA: *Gliricola panamensis* Werneck
Gyropus setifer Ewing
Harrisonia uncinata Ferris

- SI: *Adoratopsylla intermedia copha*
 (Jordan)
Polygenis dunni (Jordan &
 Rothschild)
 " *klagesi* (Rothschild)
 " *roberti beebei* (I. Fox)
Rhopalopsyllus australis tupinus
 Jordan & Rothschild
Rhopalopsyllus cacticus saevus
 Jordan & Rothschild
Rhopalopsyllus l. lugubris Jordan
 & Rothschild

Hoplomys gymnurus (Thomas)

Porcupine Rat

- LA: *Haemolaelaps glasgowi* (Ewing)
Tur uniscutatus (Turk)
 " *anomalus* n. sp.
 DE: *Ornithonyssus* sp.
 IX: *Amblyomma* sp., L
 TR: *Ascoschoengastia dyscrita*
 Brennan & Jones
Crotiscus desdentatus (Boshell &
 Kerr)
Eutrombicula goeldii (Oudemans)
Dolisia (Kymocta) *teratarsalis*
 Yunker & Brennan
Leptotrombidium panamensis
 (Ewing)
Myxacaros oscillatus Brennan &
 Yunker
Pseudoschoengastia bulbifera
 Brennan
Trombicula dunni Ewing
 " *keenani* Brennan &
 Jones
 " *punctata* Boshell &
 Kerr
 MA: *Gliricola* sp. (near *panamensis*)
Gyropus setifer Ewing
 AN: *Pterophthirus audax* (Ferris)
 SI: *Polygenis klagesi* (Rothschild)

Miscellaneous

Rodent nests

- SI: *Jellisonia johnsonae* Tipton &
 Mendez
Pleochaetis d. dolens (Jordan &
 Rothschild)

Rat

- AN: *Hoplopleura nesoryzomydis* Ferris

Mouse

- TR: *Eutrombicula alfreddugesi*
 (Oudemans)
Trombicula dicrura Brennan &
 Jones

Order CARNIVORA

Family Canidae

Canis familiaris Linnaeus

Domestic Dog, "Perro"

IX: *Amblyomma auricularium* (Conil)" *cajennense*
(Fabricius)" *oblongoguttatum*
Koch" *ovale* Koch

" sp., N, L

Ixodes affinis Neumann" *boliviensis* Neumann*Rhipicephalus sanguineus*
(Latreille)MA: *Heterodoxus spiniger* (Enderlein)*Trichodectes canis* (De Geer)SI: *Ctenocephalides f. felis* (Bouché)*Juxtapulex echidnophagoides*

Wagner

Pulex simulans Baker*Rhopalopsyllus australis tupinus*

Jordan & Rothschild

Family Procyonidae

Procyon cancrivorus (Cuvier)

Crab-eating Raccoon

IX: *Amblyomma naponense*

(Packard)

" *oblongoguttatum*
Koch" *ovale* Koch

" sp., N, L

Procyon lotor (Linnaeus)

Raccoon

IX: *Amblyomma ovale* Koch*Ixodes boliviensis* Neumann" *rubidus* NeumannMA: *Trichodectes octomaculatus* PaineSI: *Pleochaetis d. dolens* (Jordan &
Rothschild)**Nasua nasua** (Linnaeus)

Coati, "Gato solo"

LA: *Tur uniscutatus* (Turk)IX: *Amblyomma auricularium* (Conil)" *cajennense*
(Fabricius)" *naponense*
(Packard)" *oblongoguttatum*
Koch" *ovale* Koch

" sp., N, L

Ixodes boliviensis Neumann" *rubidus* Neumann

" sp., N, L

Haemaphysalis juxtakochi

Cooley

TR: *Euschoengastia tragulata*

Brennan & Jones

Eutrombicula alfreddugesi

(Oudemans)

" *goeldii* (Oudemans)*Trombicula dunni* EwingMA: *Neotrichodectes pallidus* (Piaget)SI: *Ctenocephalides f. felis* (Bouché)*Dasypsyllus gallinulae**perpinnatus* (Baker)*Hoplopsyllus glacialis exoticus*

Jordan & Rothschild

Pleochaetis d. dolens (Jordan &

Rothschild)

Polygenis klagesi (Rothschild)*Rhopalopsyllus australis tupinus*

Jordan & Rothschild

Rhopalopsyllus cacicus saevus

Jordan & Rothschild

*Rhopalopsyllus lugubris**cryptoctenes* (Enderlein)**Potos flavus** (Schreber)

Kinkajou

IX: *Amblyomma* sp., N**Potos flavus chiriquensis** J. A. AllenMA: *Trichodectes potus* Werneck**Bassaricyon gabbii** J. A. Allen

Bushy-tailed Olingo

IX: *Ixodes rubidus* NeumannSI: *Jellisonia johnsonae* Tipton &
Mendez*Pleochaetis d. dolens* (Jordan &

Rothschild)

Family Mustelidae

Mustela frenata Lichtenstein

Long-tailed Weasel

IX: *Ixodes rubidus* NeumannMA: *Neotrichodectes minutus* (Paine)?SI: *Pleochaetis d. dolens* (Jordan &
Rothschild)**Eira barbara** (Linnaeus)(=*Tayra barbara* Goldman)

Tayra

IX: *Amblyomma oblongoguttatum*
Koch" *ovale* Koch*Ixodes rubidus* NeumannSI: *Ctenocephalides f. felis* (Bouché)*Rhopalopsyllus australis tupinus*

Jordan & Rothschild

Galictis allamandi Bell(=*Grisón canaster* Goldman)

Grisón

- IX: *Amblyomma ovale* Koch
 " sp., N
 MA: *Trichodectes galictidis* Werneck
 SI: *Rhopalopsyllus australis tupinus*
 Jordan & Rothschild
Conepatus semistriatus (Boddaert)
 Striped Hog-nosed Skunk
 IX: *Ixodes rubidus* Neumann
 SI: *Ctenocephalides f. felis* (Bouché)
 Pulex irritans Linnaeus
Lutra annectens Major
 Southern River Otter
 IX: *Ixodes* sp., L

Family Felidae

- Felis cattus* Linnaeus
 Domestic Cat, "Gato"
 IX: *Amblyomma oblongoguttatum*
 Koch
 " *parvum* Aragão
 " sp., N, L
 Ixodes boliviensis Neumann
 Rhipicephalus sanguineus
 (Latreille)
 MA: *Felicola subrostratus*
 (Burmeister)
 SI: *Ctenocephalides f. felis* (Bouché)
Felis concolor Linnaeus
 Mountain Lion, "Puma," "Leon," "Tigre colorado"
 IX: *Amblyomma ovale* Koch
Felis onca Linnaeus
 Jaguar, "Tigre"
 IX: *Amblyomma ovale* Koch
 " sp., N
 Ixodes affinis Neumann
 " *boliviensis* Neumann
 SI: *Ctenocephalides f. felis* (Bouché)
 Juxtapulex echidnophagoides
 Wagner
Felis pardalis Linnaeus
 Ocelot, "Manigordo"
 IX: *Amblyomma ovale* Koch
 " sp., N, L
 Ixodes affinis Neumann
 TR: *Eutrombicula goeldii* (Oudemans)
 Odontacarus fieldi Brennan &
 Jones
 Trombicula dunni Ewing
Felis yagouaroundi Geoffroy
 Jaguarundi
 IX: *Amblyomma ovale* Koch

Order PERISSODACTYLA Family Tapiridae

- Tapirus bairdii* (Gill)
 Baird's Tapir, "Vaca de Monte," "Macho de Monte"
 IX: *Amblyomma cajennense*
 (Fabricius)
 " *coelebs* Neumann
 " *oblongoguttatum*
 Koch
 " *ovale* Koch
 " *tapirellum* Dunn
 " sp., N
Dermacentor latus Cooley
Haemaphysalis juxtakochi Cooley
Ixodes boliviensis Neumann
 " *tapirus* Kohls

Family Equidae

- Equus caballus* Linnaeus
 Domestic Horse, "Caballo"
 IX: *Amblyomma cajennense*
 (Fabricius)
 " *coelebs* Neumann
 " *oblongoguttatum*
 Koch
 " *ovale* Koch
 " *tapirellum* Dunn
 " sp., N
Anocentor nitens (Neumann)
Boophilus microplus (Canestrini)
 MA: *Bovicola equi* (Denny)

Order ARTIODACTYLA Family Tayassuidae

- Tayassu tajacu* (Linnaeus)
 Collared Peccary, "Saino"
 IX: *Amblyomma cajennense*
 (Fabricius)
 " *naponense*
 (Packard)
 " *oblongoguttatum*
 Koch
 " *pecarium* Dunn
 " *tapirellum* Dunn
 " sp., N, L
Dermacentor imitans Warburton
Haemaphysalis juxtakochi Cooley
 TR: *Eutrombicula alfreddugesi*
 (Oudemans)
 Trombicula dunni Ewing
 " *pecari* Brennan &
 Jones
Tayassu tajacu bangsi Goldman
 MA: *Macroglyropus dicotylis*
 (Macalister)

Family Suidae

Sus scrofa Linnaeus

Domestic Hog, "Puerco"

- IX: *Anocentor nitens* (Neumann)
Boophilus microplus (Canestrini)
Amblyomma cajennense

- (Fabricius)
 " *coelebs* Neumann
 " *oblongoguttatum*
 Koch
 " *ovale* Koch
 " *tapirellum* Dunn
 " sp., N

AN: *Haematopinus suis* (Linnaeus)SI: *Tunga penetrans* (Linnaeus)

Family Cervidae

Odocoileus virginianus (Zimmermann)

White-tailed Deer, "Venado"

- IX: *Amblyomma cajennense*
 (Fabricius)
 " *oblongoguttatum*
 Koch

Anocentor nitens (Neumann)
Haemaphysalis juxtakochi Cooley
Ixodes affinis Neumann
 " *boliviensis* Neumann

AN: *Solenopotes panamensis* (Ewing)

" *bipinilosus*
 (Fahrenheit)

HI: *Lipoptena mazamae* Rondani**Mazama americana** (Erxleben)

Red Brocket, "Cabra de Monte"

- IX: *Amblyomma calcaratum*
 Neumann

Amblyomma oblongoguttatum

Koch

" sp., N

Haemaphysalis juxtakochi Cooley*Ixodes affinis* NeumannTR: *Eutrombicula batatas* (Linnaeus)HI: *Lipoptena mazamae* Rondani**Mazama** sp.HI: *Lipoptena mazamae* Rondani

Family Bovidae

Bos taurus Linnaeus

Domestic Cattle, "Ganado"

- IX: *Amblyomma cajennense*

(Fabricius)

" *oblongoguttatum*

Koch

" *parvum* Aragão

" sp., N, L

Anocentor nitens (Neumann)*Boophilus microplus* (Canestrini)*Ixodes boliviensis* NeumannMA: *Bovicola bovis* (Linnaeus)

AN: *Haematopinus eurytarnus*
 (Nitsch)

(? *H. quadripertusus* Fahrenheit)**Capra hircus** Linnaeus

Domestic Goat

- IX: *Amblyomma cajennense*

(Fabricius)

" *oblongoguttatum*

Koch

Boophilus microplus (Canestrini)MA: *Bovicola limbatus* (Gervais)**Ovis aries** Linnaeus

Domestic Sheep

HI: *Melophagus ovinus* (Linnaeus)

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