

**LONGHORNED WOOD-BORING BEETLES**  
**(CERAMBYCIDAE : COLEOPTERA)**  
**OF COSTA RICA**  
An annotated species list

Frank T. Hovore, April, 2002

The following provides a brief taxonomic and biological synopsis of the family Cerambycidae (sensu latu) for Costa Rica. It was assembled in June, 2001, primarily to provide a working baseline for collection organization and field study focus at the National Institute for Biodiversity (INBio), University of Costa Rica (UCR). Each segment (tribes, or groups of tribes) has a summary of the species diversity as presently known, notes about the taxonomic status of the group, and where pertinent, a mention of known work in progress or projects initiated. This list contains described species through early 2001, but is a work in process in that it will be modified to accommodate taxonomic changes or new material examined; the number of undescribed taxa is an approximation of the number of apparently new taxa seen by the author in both public (UCR, INBio, USNM, CAS, UCB) and private collections. I am grateful to Humberto Lezama (Museo de Insectos, UCR), Angel Solís and Alvaro Herrera (INBio), Henry Hespenheide (OTS, UCLA), John Chemsak (UCB), Keve Ribardo (CAS), Luis Diego Gomez (OTS, Las Cruces), Jack Longino and the ALAS lab staff (OTS, La Selva), the Tropical Science Center, Dan Janzen, Dick Penrose, Pat Sullivan, Ian Swift, and the late Ed Giesbert for specimen data, camaraderie and many other important contributions. The Costa Rican Ministerio del Ambiente y Energia is gratefully acknowledged for providing collecting and export permits.

**PARANDRINAE**

**PARANDRINI**

Hesperandra glabra (Degeer)

Hesperandra polita (Say)

Parandra (P.) angulicollis Bates

Subfamily appears to be relatively well-known taxonomically; recent revisional studies by Arigony; no new species in collections; biology similar for all taxa, which are generalist feeders in decaying logs and stumps.

Taxon summary: known species in Costa Rica: 3; number undescribed, 0.

**PRIONINAE**

**MACROTOMINI**

Mallodon dasystomus (Say)

M. m. molarius Bates

Mallodon spinibarbis (Linnaeus)\*

Mallodonopsis corrosa Bates

M. mexicana Thomson

Parastrogylaspis linsleyi Giesbert

S. bullata Bates\*

S. granigera Bates\*

Strongylaspis corticaria Erichson\*

Most taxa well-known and common in collections; *Strongylaspis* in need of review to determine true identity of *S. corticaria* versus other named taxa, probably no new species; recently described new *Mallodon* from Costa Rica (*M. mandibulare* Lackerbeck) is invalid taxon, being both a homonym, and a synonym (of *M. dasystomus*). Biology of most species known, but the last 4 taxa listed have no published biological data.

Taxon summary: known species in Costa Rica: 9; number undescribed, 0.

### ERGATINI

*Callipogon barbatum* (Fabricius)  
*C. lemoinei* Reiche\*  
*C. (Orthomegas) fragosoi* Bleuzen  
*C. (Orthomegas) monnei* Bleuzen

### ANCISTROTINI

*Macrodontia dejeani* Gory

### MALLASPINI

*Charmallaspis rhombodera* (Bates)  
*Holonotus nigroaeneus* (Bates)  
*H. sternalis* Gahan  
*Insuetaspis paradoxa* (Bates)  
*Scatopyrodes angusta* (Taschenberg)  
*S. b. belti* (Bates)  
*S. trichostetha* Bates

### PRIONINI

*Callistoprionus fasciatus* Tippmann  
*Derobrachus asperatus* Bates  
*D. dentipes* Chemsak  
*D. longicornis* Bates  
*D. sulcicornis* LeConte  
*Psalidognathus modestus* Fries  
*P. superba* or near

### ANACOLINI

*Myzomorphus scutellatus* Sallé  
*Otheostethus melanurus* Bates  
*Udeterus magnificus* Galileo

Above tribes all recently reviewed or revised; a few minor corrections and notations may need to be done, and much more specimen data is needed for virtually all tribes; there may be one or more new taxa to be named in Anacolini; biology of most of the described taxa unknown or unpublished.

Taxon summary: described species in Costa Rica: 22; number undescribed, 1?

### MEROSCELISINI

New genus, new species #1  
New genus, new species #2

The entire known Costa Rican meroscelisine fauna at hand is undescribed, but papers underway in U.S. and Brasil will deal with these taxa.

Taxon summary: known species in Costa Rica: 2; number undescribed, 2.

### **CERAMBYCINAE**

#### OEMINI

*Atenizus simplex* Bates  
*A. laticeps* Bates  
*Malacopterus tenellus* (Fabr.)  
*Temnopsis* sp.\*

Taxonomy of Oemini relatively straightforward, but *Temnopsis* is a tentative ID, from one old UCR specimen, possibly mislabeled. Biology of *Malacopterus* known, others not.

Taxon summary: known species in Costa Rica: 3; number undescribed, 1?.

### ACHRYSONINI

Achryson surinamum (L.)  
A. ornatipenne Perroud  
Alastos batesi (Pascoe)  
Niophis antennata Martins\*

Tribe reviewed by Monné, taxonomy well known; full distribution of *Alastos* not well known; no biological data for last 3 taxa.

Taxon summary: known species in Costa Rica: 4; number undescribed, 0.

### CERAMBYCINI

Bothrocerambyx nevermanni Schwarzer  
*Brasilianus* batus (Linnaeus)  
B. yucatecus Chemsak & Noguera  
B. mexicanus Thomson  
B. plicatus (Olivier)  
Coleoxestia bimaculata Fuchs  
C. nidita Bates  
C. sanguinipes Bates  
Coleoxestia n.sp.,near nitida Bates  
Coleoxestia sp. nr vittata Bates  
*Criodion* antennatum Bates\*  
C. murinum Nonfried\*  
Poeciloxestia lanceolata Fragoso  
Sphallambyx superbum (Aurivillius)\*  
Sphallotrichus puncticollis robustus (Bates)

Taxonomy of this tribe in part has been well-studied, but not completed, by Fragoso; *Criodion* species determinations are tentative. No new taxa seen in collections at hand, except perhaps the species of *Sphallambyx*, which may be new, and not *superbum* (described from Colombia). Biology known only for a few *Brasilianus*, and ecological distribution not well-known for any of the species.

Taxon summary: known species in Costa Rica: 15; number undescribed, 3?.

### HESPEROPHANINI

*Amphelictus* bicolor Chemsak & Linsley  
*Amphelictus* sp. nr brevidens Chemsak & Linsley  
A. castaneus or panamensis Chemsak & Linsley\*  
Anatinomma alveolatum Bates\*  
A. bispinosum Aurivillius\*  
A. brevicornis Fisher

Members girdle twigs and limbs. Taxonomy of *Amphelictus* needs to be revisited, as 2 of 3 names can only be tentatively assigned; at least one new species at hand from extreme western Panama probably is present in Las Alturas region of Costa Rica as well.

Taxon summary: known species in Costa Rica: 6; number undescribed, 1?.

### EBURIINI

Eburia aegrota Bates  
E.fuligineus (Bates)  
E. pedestris White  
E. stigma (Olivier)\*  
Eburodacrys callixantha Bates  
E. coalescens Bates

*E. havanensis* Chevrolat  
*E. sticticollis* Bates  
*E. triocellata* (Stål)

*Eburia* presently under review by Noguera; all new taxa at hand should be named in that work. Biology known for a few species only.

Taxon summary: known species in Costa Rica: 9; number undescribed, 3?.

#### ELAPHIDIINI

*Aneflus* (*Protaneflus*) *minutivestis* Linsley  
*A. (P.) planus* Franz  
*A. (P.) pilosicornis* Ch. & Lins.  
*Anelaphus daedalus* (Bates)  
*A. jansoni* Linsley  
*A. misellus* (Bates)  
*Anelaphus* sp.#1, nr *jansoni*  
*Anelaphus* sp.#2, nr *jansoni*  
*Anelaphus* sp., nr *giesberti* Chemsak & Linsley  
*Anopliomorpha* sp., *hirsutum* Linsley or near  
*Atylostagma polita* White  
*Elaphidion irroratum* (Linnaeus)  
*E. scabricolle* Bates\*  
*Enaphalodes coronatum* (White)  
*Eutrichophoroides albisparsus* (Bates)  
*Ironeus duplex* Bates  
*I. pulcher* Bates  
*Megapsyrassa atkinsoni* Chemsak & Giesbert  
*M. n.sp.*  
*M. xestioides* (Bates)  
*Micropsyrassa bimaculata* (Bates)  
*M. minima* Martins & Chemsak  
*Miltesthus marginatus* Bates  
*Nephalioides rutilus* (Bates)  
*Nyssicus topographicus* (Linsley)  
*Paramallocera cribripennis* (Bates)  
*Parastizocera procera* (Erichson)  
*Peranoplium undulatum* (Bates)  
*Peranoplium* n. sp.  
*Psyrassa sallaei* Bates\*  
*P. testacea* Linsley  
*P. subpicea* (White)  
*Psyrassa* sp. nr *testacea*  
*Psyrassa* n. sp. (rounded elytral apices)  
*Orwellion* g. *gibbulum* (Bates)  
*Sphaerion* sp. indet.  
*Stenosphenus* l. *languriooides* Bates  
*S. lineatus* costaricensis Giesbert  
*S. o. ochraceus* Bates  
*S. trispinosus* Bates  
*Stizocera plicicollis* (Germar)  
*Terpnissa listropterina* Bates  
*Trichophoroides niveus* Linsley  
*Tropimerus hovorei* Giesbert

This is a large and complex tribe, with very high number of genera to species; numerous new taxa are at hand, at least some of which are in ms by Hovore at present; *Psyrassa* is currently being reviewed by Toledo at UNAM; other genera in need of work include *Anelaphus*, *Elaphidion*, and *Peranoplium*. Most species in the tribe are larval twig girdlers, but the larvae of a few species work in already-dead wood.

Taxon summary: known species in Costa Rica: 44; number undescribed, 10?.

#### PIEZOCERINI

- Haruspex bivittis agnatus* Melzer  
*Haruspex* n. sp.  
*Hemilissa rufa* Melzer\*  
*Piezasteria helenae* Martins\*  
*Piezocera monochroa* Bates

Tribe recently revised by Martins, but several taxa from Costa Rica can only be tentatively named herein; minor work to determine accuracy of identifications, and at least one new species at hand. Biologies of all species unknown, but *Hemilissa* and *Haruspex* usually taken on dead branches..

Taxon summary: known species in Costa Rica: 5; number undescribed, 1.

#### IBIDIONINI

- Alcyopis chalcea* Bates  
*Asynapteron glabriolum* (Bates)  
*Compsa leucozona* Bates  
*C. macra* Thomson  
*Compsibidion vanum* Thomson  
*Corimbion martensi* Giesbert  
*Cycnidolon trituberculatum* Martins  
*Diasporidion duplicatum* (Gounelle)  
*Engyum virgulatum* (Bates)  
*Gnomidolon basicoeruleum* Martins  
*G. laetabile* Bates  
*G. melanosomum* Bates  
*G. proseni* Martins  
*Heterachthes concretus* Martins  
*H. ebenus* (Newman)  
*H. fraterculus* Martins & Napp  
*H. nigrocinctus* Bates  
*H. rubricolor* Melzer  
*Hexoplus albipenne* Bates  
*Neocompsa bimaculata* Martins & Napp  
*N. comula* Martins  
*N. giesberti* Martins & Napp  
*N. glaphyra* Martins  
*N. lineolata* (Bates)  
*N. mexicana* (Thomson)  
*N. spinosa* Martins  
*N. squalida* (Thomson)  
*N. textilis* (Thomson) or new  
*N. thelgema* Martins  
*N. tuberosa* Martins  
*N. v-flava* Melzer  
*N. ventricosa* (Bates)  
*Pygmodeon cribripenne* (Bates)  
*P. ditulum* (Bates)

*P. excelsum* Martins & Napp  
*P. obtusum* (Bates)  
*P. validicorne* (Bates)  
*P. sp. indet.*  
*Stenygra h. histrio* Serville  
*S. histrio nigrina* Franz  
*Thoracibidion buqueti* (Thomson)  
*Xalitla* sp., *genuina* Martins, or near

Large, but relatively well-known tribe, completely revised by Martins, with numerous subsequent papers by same author, describing new taxa. There appear to yet be a few new taxa in Costa Rica, some of which presently are included in faunal works in progress. New taxa also at hand from Cocos Island. Biologies mostly unknown, but tribe in general associated with dry, dead twigs and branches, woody vines.

Taxon summary: known species in Costa Rica: 42; number undescribed, 2?.

#### OBRINI

*Obrium albifasciatum* Bates  
*O. angulosum* Bates  
*O. cordicolle* Bates  
*O. costaricum* Hovore & Chemsak  
*O. cribripenne* Bates  
*O. maculatum* (Olivier)  
*O. ruficolle* Bates

Tribe reviewed by Hovore & Chemsak; no new taxa at hand; biologies not published, but most species bore in small dead twigs.

Taxon summary: known species in Costa Rica: 7; number undescribed, 0.

#### HYBODERINI

*Pachymerola ruficollis humeralis* Giesbert

#### MOLORCHINI

*Oxycoleus bicolor* Melzer  
*Oxycoleus n. sp.* – culicina-like  
*Oxycoleus n. sp.* – Monteverde

#### NECYDALOPSINI

*Eucharassus bicolor* Melzer  
*E. dispar* Bates  
*E. nevermanni* Melzer  
*E. n. sp. #1*  
*E. n. sp. #2*  
*E. n. sp. #3*  
*N. genus, n. sp.* (Monteverde)

Above three tribes somewhat complex at higher classification level, latter may be polyphyletic, several of the new taxa are in manuscripts in progress; *Oxycoleus* needs work, with perhaps 3 new species at hand. *Eucharassus bicolor* appears to be the female of *E. dispar*, but this has not yet been published.

Taxon summary: known species in Costa Rica: 11; number undescribed, 7.

#### RHINOTRAGINI

*Acyphoderes abdominalis* (Olivier)  
*A. fulgida* Chemsak & Linsley  
*A. sexualis* Linsley  
*A. n. sp.*

*A. suavis* Bates  
*Bromiades brachyptera* Chevrolat  
*Cantharoxylymna linsleyi* Fisher  
*Crossomeles acutipennis* Chemsak & Noguera  
*Epimelitta nigerimma* Bates or consobrina Melzer  
*Ischasia nevermanni* Fisher  
*I. rufina* Thomson\*  
*Isthmiade perpulchra* Linsley  
*Odontocera buscki* Fisher  
*O. exilis* Fisher  
*O. fasciata* (Olivier)  
*O. nevermanni* Fisher  
*O. scabricollis* Melzer  
*O. zeteki* Fisher  
*Odontocera* sp., nr *clara* Bates  
*Odontocera* sp. indet.  
*Oxylymma tuberculicollis* Fisher  
*Ommata aurantipennis* Giesbert  
*O. beltiana* Bates  
*O. championella* Bates\*  
*O. cyanipennis* Bates  
*O. elegans* White  
*O. turrialbae* Giesbert  
*Ommata* (*Ecliptophanes*) *tommyi* Hovore  
*Ommata* sp. #1  
*Phesquia corinna* (Pascoe)  
*Stenochariergus hollyae* Giesbert & Hovore  
*Stenopseustes* sp.  
*Tomopterus vespooides* White

The tribe is mega-diverse and generally poorly known at present, with many new species at hand from mesoamerica overall, but relatively few from Costa Rica (one in ms by Hovore at present). Generic concepts for *Odontocera*, *Acypoderes*, and *Ommata* need clarification. Specific biologies not known for Costa Rican fauna, but tribe generally utilizes dry dead wood for larval development.

Taxon summary: known species in Costa Rica: 33; number undescribed, 6.

#### EROSCHEMINI

*Tethlimmena aliena* Bates

The one described species possibly encompasses more than one taxon, and needs further study. Reared from *Persea* girdled by *Oncideres* (Hovore).

Taxon summary: known species in Costa Rica: 1; number undescribed, 1?.

#### CALLICHROMATINI

*Callichroma batesi* Gahan  
*Diotecnon* i. *iris* (Taschenberg)  
*Mionochroma aureotincta* (Bates)  
*M. v. vittata* (Fabricius)  
*Plinthocoelium xanthogastrum* (Bates)  
*Schwarzterion* h. *holochlorum* (Bates)  
*Xenochroma azurea* Demets  
*X. hovorei* Giesbert  
*X. tibialis* Giesbert  
*Xystrochroma clypeatum* (Schwarzter)

Most genera reviewed by Giesbert, and no new species are at hand in material from Costa Rica at this time. Biologies unknown for most species, but most taxa bore in larger trunks and branches of fallen trees.

Taxon summary: known species in Costa Rica: 10; number undescribed, 0.

#### DRYOBIINI

*Ornithia m. mexicana* (Sturm)

Only one common species is known. Larval biology not published, but adults usually found beneath bark on large burned stumps, or at flowers.

Taxon summary: known species in Costa Rica: 1; number undescribed, 0.

#### CLYTINI

*Anthoboscus tricolor* (Chevrolat)

*Mecometopus jansoni* Bates

*M. macilentus* Bates

*M. solidicornis* Bates

*Megacyllene angulatus* (Fabricius)

*M. costaricensis* (Thomson)\*

*M. ellifranziana* Fuchs

*M. guttata* Chevrolat

*M. panamensis* (Bates)

*Neoclytus beltianus* (Bates)

*N. cacicus* (Chevrolat)

*N. justini* (Chevrolat)

*N. lebasi* Chevrolat

*N. personatus* Chemsak & Linsley

*N. n. sp.*

*Ochraethes citrinus* Chevrolat\* (dubious record)

*O. pollinosa* (Chevrolat)

*Ochraethes n. sp.*

*Placosternus crinicornis* (Chevrolat)

*P. erythropus* (Chevrolat)

*Tanyochraethes ochrozona* (Bates)

*Trichoxys viridicollis* Chevrolat

Relatively well-known tribe, but there are few new species in collections at hand, some in manuscripts in progress. Some minor taxonomic sorting needed, and generic divisions not clear for all taxa; probably more new species to be discovered with additional collecting. Biologies not published for most taxa, but most clytine species breed in dead hardwoods, a few in living woody plants.

Taxon summary: known species in Costa Rica: 22; number undescribed, 2.

#### ANAGLYPTINI

*Aphysotes tubericollis* Bates

*Diphyrama singularis* Bates

*Pempteurya sericans* Bates

#### TILLOMORPHINI

*E. boucardi* (Bates)\*

*E. cleriformis* Bates

*E. cribellatus* (Bates)

*E. dimidiatipennis* Melzer

*E. linsleyi* Giesbert & Chemsak

*E. posticus* (Pascoe)

*E. pusillus* Giesbert & Chemsak  
*E. succinus* Giesbert & Chemsak  
*Tetranodus angulicollis* Chemsak  
*T. reticeps* (Bates)  
*T. xanthocollis* Chemsak

Euderces was recently reviewed by Giesbert & Chemsak; not well-studied biologically, but several species reared from Oncideres girdles (Hovore, Giesbert) and dead twigs. Adults often found on blossoms of flowering trees.

Taxon summary: known species in Costa Rica: 14; number undescribed, 0.

#### CLEOMININI

*Dihammophora aurovittata* Bates  
*Dihammophora chontalensis* Bates  
*Dihammophora* sp. #1  
*Haenkea thoracica* (Chevrolat)  
*Listroptera aterrima* (Germar)

#### RHOPALOPHORINI

*Coremia plumipes* (Pallas)  
*Cosmisoma martyr* Thomson  
*C. militaris* Giesbert  
*C. plumicornis* (Drury)  
*C. titania* Bates  
*C. n. sp.* (metallic purple)  
*Cycnoderus* (*Ulododerus*) *barbatus* (Gounelle)  
*Ischionodonta serripes* (Bates)  
*I. versicolor* (Chevrolat)  
*Ozodes multituberculata* Bates  
*O. xanthophasma* Bates  
*Rhopalophora cupricollis* Guerin  
*R. tenuis* (Chevrolat)  
*R. rubecula* Bates

These three tribes are currently being studied taxonomically by Napp, Mermudes, Marquez and graduate students in Brasil, and may prove to be more diverse than presently thought. Costa Rican representation is much less complex than the South American fauna; distributions and biologies are not well-known.

Taxon summary: known species in Costa Rica: 19; number undescribed, 2.

#### HETEROPSINI

*Chrysoprasis belti* Bates  
*C. hypocrita* Erichson\*  
*C. hirtula* White  
*C. seticornis* Bates  
*C. sp.* (blackish)  
*Monecles apollinarii* (Gounelle)  
*Pronuba gracilis* Hovore & Giesbert  
*P. incognita* Hovore & Giesbert

Napp & Martins recently reviewed most of these genera, and tribe overall is well-studied taxonomically. Biologies have not been published for any of the species in Costa Rica, however.

Taxon summary: known species in Costa Rica: 8; number undescribed, 1.

### PLATYARTHINI

*Platyarthron chilense* Thomson  
*P. laterale* Bates  
*P. semivittatum* Bates  
*P. sp.* indet.

This tribe is not well-known taxonomically, and species names as applied are all somewhat tentative. Could be a good, compact thesis project at level of entire fauna in Mexico and Central America. Biologies unknown, but adults often sit on the stems of living plants, particularly Solanaceae.

Taxon summary: known species in Costa Rica: 4; number undescribed, 1?.

### PTEROPLATINI

*Corynellus cinnabarinus* Chemsak & Linsley  
*Deltosoma flavidum* Aurivillius  
*N. genus, n. sp.*

Small tribe in Costa Rica, only new taxon in manuscript in progress; biologies for Central American taxa not known.

Taxon summary: known species in Costa Rica: 3; number undescribed, 0.

### TORNEUTINI

*Chlorida cincta* Guerin  
*C. festiva* (Linn.)  
*Coccoderus* sp. (*amazonicus* Bates?)  
*Gigantotrichoderes conicicollis* Tippmann  
*G. flabellicornis* (Zajciw)  
*Gnaphalodes trachyderoides* Thomson  
*Thaumasus gigas* (Olivier)  
*Xenambyx lansbergei* (Thomson)

This tribe may be polyphyletic as presently constituted, and studies are underway in South America at the tribal level; Taxonomy of Costa Rican species is marginal: *Coccoderus* species may be new, *Gigantotrichoderes* may hold another species, *Thaumasus* may be male of *Xenambyx*.

Taxon summary: known species in Costa Rica: 8; number undescribed, 2?

### TRACHYDERINI

*Amphonthe caudalis* Schwarzer  
*Ancylocera macrotela* Bates\*  
*Ancylosternus m. morio* (Fabricius)  
*Axestoleus meridionalis* (Bates)  
*Ceragenia insulana* Fisher  
*Ceralocyna* sp.?  
*Callona rutilans* Bates \*  
*Callona* n. sp.  
*Crioprosopus amoenus* Jordan\*  
*Elytroleptus grandis* Linsley  
*Galissus cyanopterus* Dupont  
*G. n. sp.*  
*G. n. sp.*  
*Gortonia linsleyi* Hovore  
*Metaleptus angulatus* (Chevrolat)  
*Oxymerus aculeatus lebasi* Dupont

Parevander nobilis (Bates)  
P. unicolor (Bates)  
Sphaenothecus facetus Chemsak & Noguera  
S. toledo Chemsak & Noguera  
Stenobatyle eburata (Chevrolat)  
Trachyderes (T.) elegans  
Trachyderes (T.) elegans blandus Dupont  
T. (T.) hilaris Bates  
T. (T.) s. succincta (Linnaeus)  
T. steinhausenii (Huedepohl)  
Zenochloris sp.  
Zenochloris n. sp.  
new genus, new species, nr Trachyderes

Polyphyletic tribe as presently constituted; there are several new taxa at hand (in manuscript), others are only tentatively determined. *Zenochloris* in particular may hold several new species in Costa Rica.

Taxon summary: known species in Costa Rica: 29; number undescribed, 7.

#### LISSONOTINI

Lissonotus flavocinctus multifasciatus Dupont

Phoenidnus n.sp.?

#### MEGADERINI

Megaderus stigma (Linnaeus)

These two tribes seem pretty simple in Costa Rica, although identity of material tentatively considered as a new *Phoenidnus* needs to be resolved.

Taxon summary: known species in Costa Rica: 3; number undescribed, 1.

## LEPTURINAE

#### LEPTURINI

Chontalia cyanicolor Bates  
Choriolaus gracilis (Chemsak & Linsley)  
Cyphonotida rostrata Bates  
Euryptera albosterna Chemsak & Linsley  
Leptochoriolaus opacus Chemsak & Linsley  
Lycidocerus sanguineus Chemsak & Linsley  
Lycomorphoides simulans Linsley  
Megachoriolaus lineatocollis Chemsak & Linsley  
M. patricia (Bates)  
Mimiptera fulvella (Bates)  
Pseudotypocerus ater (Chemsak & Linsley)  
P. inflaticollis Chemsak & Linsley\*  
Strangalia annae (Chemsak & Linsley)  
S. belti (Bates)  
S. cantharidis (Chemsak & Linsley)  
S. elegans Giesbert  
S. emaciata (Bates)  
S. guindoni Giesbert  
S. hovorei Giesbert  
S. instabilis Giesbert  
S. opleri Chemsak & Linsley

- S. picticornis (Bates)
- S. pseudocantharidis Giesbert
- S. saltator (Bates)\*
- Strangalia spp. indet. (3 – 5)
- Strangalidium chemsaki Giesbert
- S. nigellum (Bates)
- S. kunaianum Giesbert

This tribe has received considerable attention in recent years (not all new changes and/or names are included herein), but more new taxa are at hand, and the entire group needs review for Costa Rica and/or Central America. Biologies unknown for most taxa.

Taxon summary: known species in Costa Rica: 32; number undescribed, 5+.

## LAMIINAE

### MONOCHAMINI

- Deliathus nivea detersa Bates
- D. quadrataeniator (White)
- Neoptychodes candidus (Bates)
- N. cretatus (Bates)
- N. hondurae (White)
- N. trilineatus (L.)
- Plagiohammus albatus (Bates)
- P. elatus (Bates)
- P. emanon Dillon & Dillon
- P. pollinosus (Bates)
- P. rubefactus (Bates)\*
- P. spinipennis (Thomson)
- P. strandi Breuning
- P. thiodes (Bates)\*
- Ptychodes politus lecontei Serville
- Taeniotes inquinatus (Thomson)
- T. preclarus Bates
- T. scalaris (Fabr.)
- T. xanthostictus Bates

Relatively well-known group taxonomically in Central America, less so in Ecuador; no obvious new species at hand, although some names may be incorrectly assigned. Biologies not known for most species.

Taxon summary: known species in Costa Rica: 19; number undescribed, 0.

### TAPEININI

- Tapeina costaricensis Breuning
  - T. transversifrons centralis Marinoni
- Compact group taxonomically; biologies not studied for Costa Rican species.
- Taxon summary: known species in Costa Rica: 2; number undescribed, 0.

### ADETINI

- Adetus analis (Haldeman)\*
- A. bacillarius Bates
- A. consors Bates
- A. costicollis Bates
- A. denticauda Bates
- A. excultus Bates

- A. fasciatus Franz
- A. furculicauda (Bates)
- A. griseicauda (Bates)
- A. leucostigma Bates
- A. muticus (Thomson) [=analis auct.]
- A. nitens Bates\*
- A. pictoides Breuning
- A. pictus Bates
- A. pulchellus (Thomson)
- A. salvadorensis Franz\*
- A. subellipticus Bates
- A. n. sp., nr longicauda

A review of this genus would be very useful, as existing taxonomic treatment by Breuning is practically useless. Some of the names are applied without confidence. Most taxa breed in vines and lianas, but genus is biologically heterogeneous, a situation which may reflect polyphyly.

Taxon summary: known species in Costa Rica: 18; number undescribed, 1.

#### APOMECYNINI

- Acestrilla minima Bates
  - Amphicnæia apicalis Melzer
  - A. brevivittis Bates
  - A. crustulata Bates
  - A. lepida Melzer
  - A. quinquevittata Bates
  - A. sexnotata Melzer
  - A. strandi Breuning
  - Amphicnæia n. sp.
  - Asyngenes (Neosyngenes) venezuelensis Breuning
  - Bebilis acuta geometrica Bates
  - B. divaricata Fisher
  - B. longipennis Bates\*
  - B. mexicana Bates\*
  - Bisaltes sp.
  - B. sp. #2
  - Dorcasta dasycera (Erichson)
  - Ischioloncha lineata Bates
  - Ischioloncha [?] sp.
  - Orteguaza lichenigera Lane\*
  - Phrynidius echinus Bates
  - Ptericoptus panamensis Bates\*
  - Rosalba approximata Melzer
  - R. costaricensis Melzer
  - R. obliqua (Bates)
  - Sarillus pygmaeus Bates
- PTEROPLIINI
- Ataxia fulvifrons (Bates)
  - A. lineata (Fabricius)
  - A. niveisparsa Bates
  - Epectasis juncea (Newman)\*
  - Esthlogena porosa Bates
  - Esthlogena n. sp.

### DESMIPHORINI

- Desmiphora aegrota Bates
- D. canescens Bates
- D. cirrosa Erichson
- D. fasciculata (Olivier)
- D. hirticollis (Olivier)
- D. mulsa Giesbert
- Paradesmiphora farinosa (Bates)
- Pogonillus subfasciatus Bates or near

### APODASYINI

- Atelodesmis piperita Bates
- Atelodesmis n. sp.
- Atimiola guttulata Bates
- Eupogonius apicornis Bates
- E. cryptus Hovore
- E. flavocinctus Bates
- E. infimus Thomson
- E. longipilis Bates\*
- E. major Bates
- E. pubicollis Melzer
- E. scutellaris Bates
- E. strandi Breuning
- E. subtessellatus Melzer
- E. vittipennis Bates
- Eupogonius n.sp. #1, nr major
- Eupogonius n.sp. #2, nr major
- Eupogonius n.sp. #3, nr vittipennis
- Parestola zapotensis Bates

### ESTOLINI

- Blabia costaricensis Breuning
- Cicatrisestoloides costaricensis Br. & Heyrovsky
- Estola ignobilis Bates
- E. misella Bates
- E. strandiella Breuning
- E. vittulata Bates
- Estola sp. nr misella
- Estola sp. nr ignobilis
- Estoloides (E.) fulvitarsis (Bates)
- E. (E.) longicornis Breuning
- E. (E.) perforata (Bates)\*
- E. (E.) strandiella Breuning\*
- E. (E.) turrialbae Breuning
- E. (Parestoloides) costaricensis Breuning\*
- E. (P.) esthlogenoides Breuning\*
- E. (P.) parva Breuning\*
- Periestola strandi Breuning
- Pseudestoloides costaricensis Br. & Heyrovsky

The preceding four tribes are very messy taxonomically, thanks to Breuning. Many new species no doubt lurk within existing names assigned by that author, and no doubt many synonymies are needed as well. Breuning types are scattered, and usually unidentifiable to species due to their terrible condition and/or indecipherable labels. Many excellent thesis projects lie within these tribes. Genera in particular need of review, and probably workable, include *Amphicnaea*, *Bisaltes*, *Esthlogena*, *Eupogonius*, *Estola* and

*Estolooides*. New taxa are at hand in collections in all these genera, and the larval biologies are largely unknown.

Taxon summary: known species in Costa Rica: 77; number undescribed, 12+.

#### POGONOCHERINI

*Ecyrus albifrons* Chemsak & Linsley

*E. arcuatus* Gahan\*

*Lypsimena fuscata* Haldeman

*L. tomentosa* Chemsak & Linsley\*

*Poliaenus* n. sp.

*N. genus, n. sp*

#### COMPSOSOMATINI

*Aerenea impetiginosa* Thomson

*Aerenea* n. sp.

*Tessarecphora arachnoides centralis* Marinoni

Both tribes relatively compact within the fauna, but new taxa are at hand in both.  
Issues in pogonocherines will be resolved in upcoming manuscripts.

Taxon summary: known species in Costa Rica: 9; number undescribed, 3.

#### ONCIDERINI

*Cacostola acuticauda* Marinoni & Martins

*Cacostola* sp. #1, nr volvula (Fabricius)

*Cacostola* sp. #2

*Cacostola* sp. #3

*Cacostola* sp. #4

*Charoides fulvofasciata* Dillon & Dillon

*C. lycimnia* Dillon & Dillon

*C. pallida* Dillon & Dillon

*Cylicasta nysa* Dillon & Dillon

*Ecthoea quadricornis* Olivier

*Eudesmus grisescens* Serville \*

*Furona degenera* (Bates)

*Hesychotypa cedestes* Dillon & Dillon

*H. turbida* Bates\*

*H. heraldica* Bates

*Hypsioma* (?) n. sp.

*Ischiocentra monteverdensis* Giesbert

*I. stockwelli* Giesbert

*Jamesia ericksoni* Hovore

*J. multivittata* Bates

*J. papulenta* Thomson

*Lochmaeocles batesi* Aurivillius

*L. consobrinus* Dillon & Dillon

*L. sparsus* Bates

*L. t. tessellatus* (Thomson)

*L. tessellatus costaricæ* Chemsak

*Oncideres a. albomarginata* Thomson

*O. fisheri* Dillon & Dillon

*O. fulvostillata* Bates or near

*O. minuta* Thomson\*

*O. pittieri* Gahan

*O. punctata* Dillon & Dillon

*O. putator brevifasciatus* Dillon & Dillon

O. O. rubra Franz  
O. sp. indet.  
Periergates chiriquiensis Bates\*  
Sternycha approximata Dillon & Dillon\*  
S. paupera (Bates)\*  
Trachysomus surdus Dillon & Dillon\*  
Trestonia assulina Bates  
T. confusa Dillon & Dillon  
T. pulcherrima Dillon & Dillon  
T. pyralis Dillon & Dillon  
Tybalmia caeca Bates  
T. funeraria Bates  
Venustus zeteki Dillon & Dillon

Most parts of this tribe are relatively well-studied, but *Cacostola* is a mess. Numerous new species are at hand in collections and no useful key is available. Work needed in *Trestonia* as well. Hovore has new *Hypsioma* in manuscript.

Taxon summary: known species in Costa Rica: 46; number undescribed, 6.

LATICRANIINI

Laticranium mandibulare Lane

AGAPANTHIINI

Amillarus apicalis Thomson  
Helvina howdenorum Hovore & Giesbert  
Hippopsis lemniscata (Fabr.)  
H. tremata Galileo & Martins  
Spalacopsis protensa Pascoe\*  
S. sp., variegata Bates or near

ANISOCERINI

Anisocerus palliatus White  
Batesbeltia belti (Bates)  
Parachalastinus championi (Bates)  
P. rubrocinctus Bates  
P. nigrescens Galileo & Martins  
Hoplistocerus gemmatus Bates  
Mauesia n. sp.  
Onychocerus crassus (Voet)  
Taurolema flavocincta Gounelle

T. nasicornis Schwarzer

Taurolema n. sp.

Thryallis leucophaeus White  
T. ocellatus Chemsak & McCarty

POLYRHAPHIDINI

Polyrhaphis angustata Buquet  
P. batesi Hovore & McCarty  
P. belti Hovore & McCarty  
P. paraensis Bates

Preceding four tribes relatively well-known, but some new taxa are at hand, and some synonymy needed in Anisocerini; *Spalacopsis* is very poorly understood taxonomically south of the U.S.

Taxon summary: known species in Costa Rica: 23; number undescribed, 3.

### ACROCININI

*Acrocinus longimanus* (Linn.)

One genus and species in tribe, well-known and well-studied.

Taxon summary: known species in Costa Rica: 1; number undescribed, 0.

### ACANTHODERINI

*Acanthoderes bivittata* White

*A. circumflexa* Jac. duVal

*A. inquinata* Bates

*A. laevicollis* Bates

*A. polysticta* Bates

*Acanthoderes* n. sp. #1

*Acanthoderes* n. sp. #2

*Acanthoderes* n. sp. #3

*Ackakyra* n. sp.

*Amblysaphes striatus* Bates

*Alphus cavifrons* Bates

*Dufauxia* sp.

*Macronemus asperulus* White

*Myoxinus pictus* (Erichson)

*Nesozineus bucki* (Breuning)\*

*Oreodera c-album* Bates

*O. canotogata* Bates

*O. costaricensis* Thomson

*O. fasciculosus* Thomson

*O. fluctuosa* Bates

*O. g. glauca* (Linnaeus)

*O. granulifera* Bates

*O. graphiptera* Bates

*O. inscripta* Bates

*O. lezamai* Hovore

*O. mimetica* Lane\*

*O. purpurascens* Bates

*O. semialba* Bates

*O. verrucosa* Bates

*O. n. sp.* #1

*Paradiscopus maculatus* Schwarzer

*P. n. sp.*

*Pseudaethomerus maximus* Tippmann

*Pycnomorphus centroleatus* (Bates)

*Scleronotus* sp. indet.

*Steirastoma albiceps* Bates

*S. brevis* (Sulzer) \*

*S. histrionicum* White

*S. larva* Thomson

*S. stellio* Pascoe\*

*S. melanogenys* White

*S. senex* White

*Tetrasarus formosus* Bates

*T. pictulus* Bates

*Tetrasarus* n. sp. #1

*Tetrasarus* n. sp. #2

*Zikanita* n. sp.

A large and complex tribe, with most genera relatively poorly defined; Hovore & Chemsak have most of the new species listed herein described in submitted manuscript  
Taxon summary: known species in Costa Rica: 47; number undescribed, 11.

### ACANTHOCININI

- Alcathous polyrhaphoides (White)
- Alcidion humeralis (Perty)
- Alphinellus sp. nr subcornutus Bates
- Amniscites pictipes Bates
- Anisopodus affinis Martins
- A. costaricensis Lara & Shenefelt
- A. dispar Bates
- A. hamaticollis Bates
- A. hiekei Martins
- A. humeralis Bates
- A. nigripes Bates
- A. scriptipennis Bates
- A. strigosus (Erichson)\*
- A. xylinus Bates\*
- A. n. sp.#1
- A. n. sp.#2
- A. n. sp.#3, nr degener Bates
- A. n. sp.#4
- A. n. sp.#5
- A. n. sp.#6 (nr nigripes)
- Apteralcidion lapierrei Hovore
- A. (?) n. sp.
- Atrypanius conspersus (Germar)
- A. irrorellus Bates\* (= spreta Bates?)
- A. punctatellus Bates
- A. implexus (Erichson)
- Canidia c. cincticornis Thomson
- C. c. balteatus Lacordaire
- Carpheolus sublineatus Bates
- C. sp. nr sublineatus
- Carphina arcifera Bates
- Cobelura claviger (Bates)
- Cobelura n. sp.
- Colobeutrypanius ornatus Tippmann
- Cosmotoma adjuncta Bates
- C. fasciata Fisher
- Eleothinus abstrusus Bates
- E. pygmaeus Bates
- Eleothinus sp. nr abstrusus Bates
- Eutrypanus mucoreus (Bates)
- Graphisurus eucharis Bates
- G. vexillaris Bates
- Hexacona armata Bates
- Hexacona or near, n. sp.#1
- Hexacona or near, n. sp.#2
- Hylettus coenobita (Erichson)
- H. seniculus (Germar)
- Hyperplatys argus Bates
- H. pusillus nigrisparsa (Bates)\*

Lagocheirus aranaeiformis ypsilon Voet  
L. cristulatus Bates  
L. giesberti Hovore  
L. kathleenae Hovore  
L. plantaris indistinctus Dillon  
L. praecellens Bates  
L. r. rogersi Bates  
L. rosaceus Bates  
L. simplicicornis Bates  
L. tuberculatus v-album Bates  
L. undatus Voet  
Leptostylus angulicollis Bates  
L. cineraceus Bates  
L. cristulatus Bates  
L. decipiens Bates  
L. g. gibbulosus Bates  
L. hilaris Bates  
L. hispidulus Bates  
L. laevicauda chiriquinus Bates  
L. leucopygus Bates  
L. lividus Hovore  
L. macrostigma Bates  
L. metallicus Bates  
L. notaticollis Bates  
L. ochropygus Bates  
L. orbiculus Bates\*  
L. petulans Bates  
L. pygialis Bates  
L. phrissominus Bates\*  
L. pilulus Bates  
L. retrorsus Bates  
L. spermovoratis Chemsak  
L. subfurcatus Bates  
L. triangulifera Bates  
L. trigonus Bates  
L. viridescens Bates\*  
L. viriditinctus Bates  
L. x-griseus Bates  
L. zonatus Bates  
Leptostylus sp.#1 nr albicinctus Bates  
Leptostylus sp.#2  
Leptostylus sp.#3 nr gibbulosus  
Leptostylus sp.#4  
Leptostylus sp.#5  
Leptostylus sp.#6  
Leptostylus sp.#7  
Leptostylus sp.#8  
Leptostylus sp.#9  
Leptostylus sp.#10  
Leptostylus sp.#11  
Leptrichillus minutus Gilmour\*  
Lepturgantes pacifica Gilmour  
Lepturges charicles Bates  
L. festivus Bates

L. figuratus Pascoe\*  
L. infilatus Bates\*  
L. laeteguttata Bates\*  
L. limpida Bates\*  
L. navicularis Bates  
L. proxima Melzer  
L. sejunctimacula Bates\*  
L. sexvittata Bates  
L. n. sp.#1  
L. n. sp.#2  
L. n. sp.#3  
Lepturges (Chaeturges) inscripta Bates\*  
Lithargyrus melzeri Martins & Monne  
Lophopoeum humerosum (Monne & Martins)  
L. saronotum (Bates)  
Mecotetartus antennatus Bates  
Nealcidion adjunctum (Thomson)  
N. brachiale (Bates)  
N. lineatum (Bates)  
N. p. privatum (Pascoe)  
N. scutellatum (Bates)  
Nealcidion sp. #1  
Nealcidion sp. #2  
Nealcidion sp. #3  
Neoeutrypanus decorus (Bates)  
N. mutilatus (Germar)  
Nyssodectes longula (Bates)  
N. roseicollis (Bates)  
Nyssodectes sp. nov.  
Nyssodrysina binoculata (Bates)  
Nyssodrysina corticalis (Bates)  
N. haldemani (Bates)  
N. leucopyga (Bates)  
N. infima (Bates)  
N. scutellata (Bates)  
N. sp. nr polyspila (Bates)  
N. n. sp.#1  
N. n. sp.#2  
Nyssodysternum ocellatum (Bates)  
N. poriferum (Bates)  
N. serpentinum (Erichson)  
N. sulphurescens (Bates)[=Stenolis]  
N. univittis (Bates)  
N. vigintiguttatum (Bates)  
N. n. sp.  
Oedopeza guttigera Bates  
O. pogonocherooides Serville  
O. setiger Bates  
Olenosus serrimanus Bates  
Onalcidion fibrosum Martins & Monne  
O. pictulum (White)\*  
Onalcidion n.sp.  
Ozineus arietinus Bates  
O. cribripennis Bates

O. elongatus Bates  
O. dorsalis Melzer  
O. moestus Bates  
O. sp. indet.#1  
O. sp. indet. #2  
O. n.sp.  
Paracobelura curiosa Monne & Martins  
Paracobelura n. sp.?  
Paranisopodus heterotarsus Monne & Martins\*  
Paranisopodus sp.  
Pattalinus sp.\*  
Pentheochaetes apicalis Melzer  
P. turbidus Melzer  
Phrissolaus inspersus Bates  
Proxatrypanius rockefelleri Gilmour  
Sporetus sp.\*  
Stenolis c. calligramma (Bates)  
S. calligramma consobrina Melzer  
S. circumscripta (Bates)  
S. decemguttata (Bates)  
S. inclusa (Bates)  
S. laetifica (Bates)  
S. polygramma (Bates)  
S. polytaenia (Bates)  
S. pulverea (Bates)  
S. theobromae (Lara & Shenefelt)  
Stenolis sp. #1  
Stenolis sp. #2  
Sympagus laetabilis (Bates)  
Tithonus acutispinus (Bates)  
T. barbiscapus (Bates)  
Trichotithonus curvatus (Bates)  
T. hispidus (Bates)  
T. tenebrosus Monné  
Trypanidius mexicanus Thomson  
T. notatus (Fabricius)  
T. rubripes Bates  
Urgleptes charilla (Bates)  
U. elaineae Gilmour\* (=fasciata Bates?)  
U. euprepes (Bates)  
U. histrionna (Bates)  
U. laticollis (Bates)  
U. laxicollis Gilmour  
U. literata (Bates)  
U. mixta (Bates)  
U. multinotata (Bates)\*  
U. ornatissima (Bates)  
U. pareuprepes Gilmour  
U. penrosei Hovore [ms name]  
U. physodera (Bates)  
U. pluristrigosa (Bates)  
U. ruficollis (Bates)  
U. trivittata (Bates)  
U. tumidicollis (Bates)

*U. unilineata* (Bates)  
*Urgleptes* sp. nr *tumidicollis*  
*Urgleptes* sp. nr *laticollis*  
*Urgleptes* sp. nr *tumidicollis*  
*Urgleptes* sp. nr *fasciata*  
*Xenocona pulchra* Gilmour  
N. genus, n. sp., near *Hexacona*  
N. genus, n. sp., near *Xenostylus*

A huge, complex, but relatively homogenous tribe, with many new genera and species at hand in collections. South American components even richer, probably in excess of 1,500 new species. Many good thesis projects lie within. Hovore has a number of new taxa in manuscript, but many more remain to be determined or described. Biology not published for most species, but typically they are subcortical borers.

Taxon summary: known species in Costa Rica: 218; number undescribed: 50+.

#### CYRTININI

*Cyrtinus* sp. indet #1  
C. sp. indet. #2  
C. sp. indet. #3  
*Omosarotes* n. sp.  
N. g., n. sp. [may be *Scopadus*]

A very small tribe at present, but at least several new taxa are at hand in collections. Most of the new taxa are presently in manuscripts in progress.

Taxon summary: known species in Costa Rica: 5; number undescribed: 3?

#### COLOBOTHEINI

*Carneades hemileuca* Bates  
*C. superba* Bates  
*Carneades* n. sp.  
*Carterica pygmaea* Bates  
C. n. sp. #1  
C. n. sp. #2  
C. n. sp. #3  
C. n. sp. #4  
*Colobothea aleata* Bates  
*C. bitincta* Bates  
*C. chemsaki* Giesbert  
*C. chontalensis* Bates  
*C. dispersa* Bates  
*C. distincta* Pascoe  
*C. pleuralis* Casey  
*C. rincona* Giesbert  
*C. unilineata* Bates  
C. n. sp.  
*Colobothina perplexa* Hovore  
N. gen. n. sp.  
*Priscilla hypsiomoides* Thomson  
*Sangaris geometrica* Bates  
*S. giesberti* Hovore  
*S. lezamai* Hovore  
*S. multimaculata* Hovore  
*Sympleurotis* sp., near *armatus*

Difficult tribe to define absolutely against the breadth of the preceding tribe, but relatively compact overall; new taxa described by Hovore in *Sangaris*, and other new taxa presently in manuscript. *Colobothea* reviewed by Giesbert some years ago, but needs update for Central America, as several new taxa are at hand.

Taxon summary: known species in Costa Rica: 26; number undescribed: 8.

#### PHYTOECINI

*Mecas* (*Dylobolus*) *rotundicollis* (Thomson)

The only known species in Costa Rica is widespread and relatively well studied.

Taxon summary: known species in Costa Rica: 1; number undescribed: 0.

#### TETRAOPINI

*Phaea auricapilla vittulata* Melzer

*P. copei* Chemsak

*P. elegantula* Melzer

*P. flavovittata* Bates

*P. giesberti* Chemsak

*P. hatsueae* Chemsak

*P. hovorei* Chemsak

*P. janzeni* Chemsak

*P. kellyae* Chemsak

*P. lateralis* Bates\*

*P. lawi* Chemsak

*P. miniata* Pascoe

*P. mirabilis* Bates

*P. nevermanni* Melzer\*

*P. phthisica* Bates\*

*P. rosea* Bates

*P. rubella* Bates

*P. schildi* Melzer

*P. scuticollis* Bates

*P. sherylae* Chemsak

*P. signaticornis* Melzer

*Tetraopes comes* Bates

*T. paracomes* Chemsak

Both genera recently revised, but both are relatively complex, and new taxa undoubtedly will be collected as new areas are better explored entomologically.

Taxon summary: known species in Costa Rica: 23; number undescribed: 0.

#### HEMILOPHINI

*A. fraudatrix* Bates

*A. ventralis* Gahan\*

*Adesmus* n. sp.#1

*Adesmus* n. sp.#2

*Adesmus* n. sp.#3

*Adesmus* n. sp.#4 nr *princeps* Bates

*Adesmus* n. sp.#6

*Cephalodina crassiceps* Bates

*Cephalodina capito* Bates

*Cirrhicera championi* Bates

*C. cinereola* Bates

*C. cristipennis* Bates  
*C. panamensis* Bates  
*C. sallaei* Thomson  
*Erana dispar* Bates\*  
*E. fulveola* Bates  
*E. leuconoe* Bates  
*Essostruthella nevermanni* Lane  
*Hilaroleopsis* sp.,nr pluricostatus Bates  
*Icimauna angaba* Martins & Galileo  
*I. aysa* Martins & Galileo  
*Isomerida cinctiventris* Bates  
*I. lineata* Bates  
*Itumbiara subdilitata* Bates\*  
*I. picticornis* (Bates)  
*Juninia beckeri* Martins & Galileo  
*Lycidola* sp. nr *belti* Bates  
*L. expansa* Bates  
*Oedudes bifasciatus* Bates  
*O. druryi* Thomson  
*O. notaticollis* Lane  
*Oedudes* sp. indet, nr *bifasciatus*  
*Phoebe albaria* Bates  
*P. luteola* Bates  
*P. mexicana* Bates  
*Tetamauara eximia* (Bates)  
*Tyrinthia lycinella* Bates\*  
*T. xanthe* Bates\*  
*Woytkowskia gruberi* Martins & Galileo

Extraordinarily complex and evolutionary derived tribe; generic concepts being explored by Brasilian authors Martins and Galileo, but Costa Rican material generally not well-represented in studies. Many new taxa at hand in collections, and fogging surveys undoubtedly will reveal more. Known biologies include twig girdling, similar to *Oncideres*.

Taxon summary: known species in Costa Rica: 39; number undescribed: 9.

#### AERENICINI

*Aerenicopsis championi* Bates\*  
*A. costaricensis* (Breuning)  
*A. n. sp.*  
*Antodice cretata* Bates  
*A. nympha* Bates  
*Eulachnesia smaragdina* Bates  
*Holoaerenica apleta* Martins  
*Montesia fasciolata* Galileo & Martins  
*Recchia hirsuta* Bates  
*n. genus?*, *n. sp.* (cantharid mimetic)

Like preceding tribe, this group is highly derived and complicated taxonomically. Recent revision of tribe clarified most issues, but additional new taxa are at hand from Central America.

Taxon summary: known species in Costa Rica: 10; number undescribed: 2.

#### CALLIINI

*Asemolea* n. sp.

A. minuta (Bates)  
 Callia fulvocincta Bates  
 C. n. sp. nr chrysomelina Bates  
 Callityrinthia mimetica Galileo & Martins  
 N. gen. n. sp.  
 Cymatonycha castanea Bates or n.sp.  
 Drycothaea cibrata Bates\*  
 D. stictica Bates\*  
 Drycothaea sp. nr sallaei Thomson  
 Harringtonia d'almeidai Dillon & Dillon  
 Mimolaia calopterona (Bates)  
**FALSAMBLESTHIINI**  
 Bactriola paupercula Bates  
 B. vittulata Bates

These two tribes are difficult to work with at present. Callini recently reviewed by Galileo, but *Drycothaea* needs further study north of Panama.

Taxon summary: known species in Costa Rica: 14; number undescribed: 4?

## DISTENIINAE

### DISTENIINI

Distenia cribristernis Bates  
 D. geniculata Bates  
 D. limbata Bates  
 D. phaeocera Bates  
 D. pilatei Chevrolat  
 D. rugiscapis Bates\*  
 D. n. sp.  
 D. simplex Bates  
 D. spinipennis Fisher  
 D. spinosa Bates [=striatiscapis?]  
 D. striatiscapis Villiers  
 D. trifasciata Bates  
 Distenia sp. #1  
 Distenia sp. #2  
 Distenia sp. #3  
 Distenia sp. #4  
 Paracometes emarginata (Fisher)  
 P. pulcherimma (Bates)  
 P. hilaris Bates  
 P. sp. indet

Numerous new species in both genera in Mexico and Central America. Presently no-one working in subfamily overall, but some new taxa in manuscript by Hovore.

Taxon summary: known species in Costa Rica: 20; number undescribed: 6.

## Summary

The Costa Rican Cerambycidae fauna currently encompasses no fewer than 943 species, of which 170 (18%) are thought to be undescribed. The actual number of undescribed taxa is somewhat higher than this figure, however, as most of the material not included in this analysis falls into that category. INBio taxonomy partners Hovore, Chemsak and Giesbert\* have described 103 of the total species presently named (or in

active manuscript), 11% of the described fauna, and an additional 30 – 40 new species are in early manuscript preparation at this time by Hovore and/or Chemsak (some with additional co-authors). It is anticipated that all manuscript names presently in progress will be finalized within 3 years. The probable total for the country will exceed 1,000 species.

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