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Neotropical Tree Species and Their Faunas of Xylophagous Longicorns (Coleoptera: Cerambycidae) in French Guiana

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I. Abstract

Estimates of the total number of species in existence are based, in part, upon assumptions about the host specificity of tropical insects. These estimates are difficult to evaluate because there is so little data available describing the host-plant affiliations of tropical insects. Over a three-year period, 690 trees in the Sinnamary River Basin of French Guiana were felled and investigated for their associated cerambycid fauna. These trees (belonging to approximately 200 species representing 38 plant families) ultimately gave rise to 334 species of cerambycids. One-quarter of these beetle species had not yet been described, and hundreds of previously unknown host-plant associations were documented. These data are presented in a table which also includes the results of additional rearing experiments in French Guiana, as well as selected literature references. Organized by host-tree family, the table facilitates the circumscription of beetle guilds occurring on related hosts. Abundantly represented plant families typically gave rise to faunas including numerous taxonomically unrelated beetles. The beetle guilds associated with different plant families had very different ratios of specialist:generalist species. The majority of the specialists successfully reproduced in related tree species belonging to a particular plant family; only a few cerambycid species appear to depend exclusively on a single host. These data contribute to an understanding of host specificity and host fidelity in tropical insects.

II. Introduction

Tropical rain forests are the repository for much of the Earth's biological diversity. Although a mere 7% of the land surface supports tropical rain forests (Wilson, 1988), they are home to a disproportionate number of the world's plant and animal species. Projections have been made that, given current rates of tropical deforestation, most of these forests will have been either cleared or significantly degraded by 2135 A D It is thus presumed that we are in the midst of a mass extinction event unparalleled within the last 65 million years (Wilson, 1988). The magnitude of this event cannot be described without a clear understanding of the rate of habitat loss, which has been the subject of varying estimates (Lugo, 1988), and the relationship between geographic area and the number of species that can be supported (Wilson,

1988). Other poorly understood variables include the relative species richness of different types of tropical forest (Lugo, 1988) and the distribution ranges of tropical forest species (Wilson, 1988), the majority of which are insects.

Even should data permit the calculation of credible extinction rates (see Lugo, 1988, for a summary), it would be difficult to generate reliable figures predicting how many species might be lost, because we lack baseline documentation of many species that currently exist. Current high-end estimates of the potential number of extant species (30–50 million) were formulated on the basis of the results of experiments in which insecticides were used to knock insects down from the canopies of tropical trees (Erwin, 1982, 1988). These estimates have engendered great controversy, in part due to the assumption that many tropical arthropods are dependent on a single host plant for survival (Erwin, 1982). Subsequent studies have compared the insect faunas of conspecific trees with those of unrelated tree species and have suggested that Erwin may have overestimated the host fidelity of tropical insects (Kitching et al., 1997; Mawdsley & Stork, 1997). These studies, also based on canopy-fogging experiments, do not adequately sample concealed feeders such as leaf-miners and bark- or wood-borers. In addition, due to the chaotic profusion of arthropod species and individuals harvested after the release of insecticides, very few trees can actually be sampled. The state of knowledge regarding the host specificity of tropical insects is still rudimentary at best.

This paper presents the results of an extended study of cerambycid beetles and their associated host plants in French Guiana, undertaken by the first author. French Guiana is part of the Guayana floristic province in northeastern South America (Mori, 1991), a species-rich region with between 7000 and 10,000 angiosperms (Lindeman & Mori, 1989). Although numerous forest types are represented, including mangrove, marsh, swamp, and montane forest, much of French Guiana is covered with intact, and relatively well-investigated, seasonal evergreen forest (Granville, 1986).

Cerambycids (longicorns, long-horned beetles, timber beetles) play an important role in the recycling of nutrients in the forest. The females of most species oviposit their eggs into freshly killed or damaged wood with persistent bark that protects the immature stages of the beetles (Linsley, 1959, 1961). After about a week, the eggs hatch into larvae which, feeding on the wood, gain weight and pass through five or six larval instars (Hequet & Tavakilian, 1996). As they feed, the larvae create systems of tunnels and galleries throughout the wood, which may then be colonized by other animals or microorganisms. The larvae eventually excavate pupal chambers underneath the bark. After metamorphosis, the adult beetles chew exit holes through the bark of the host and commence the search for mates and appropriate host plants. The feeding habits of the rather short-lived adult longicorns can be quite variable. They may feed on numerous plant parts (Linsley, 1959, 1961) not necessarily belonging to the host plant in which the larvae developed. Therefore, when we discuss the host specificity of longicorns, we refer to reproductive-host specificity.

Cerambycidae is one of the largest insect families and is particularly diverse in the tropics. As recently as 1983, only 330 cerambycid species had been recorded in French Guiana, but well over 1400 species have now been documented, including 600 that are currently being described (Hequet & Tavakilian, 1996; Tavakilian, in prep.). Although metropolitan France occupies an area more than five times as large as French Guiana, French Guiana supports 10 times as many tree species. France has a predictably diminished cerambycid fauna of only 235 species (Tavakilian, 1993), and fewer than 1000 species are found in all of the United States and Canada (Arnett, 1988).

The only way to provide incontrovertible documentation of host-plant association is to actually rear an insect from an accurately identified host. More than 1000 host-plant records

have been established for the cerambycids of French Guiana via the arduous process of rearing adult beetles from freshly fallen wood. Host-plant associations for 348 cerambycid species reared from more than 200 tree species are presented in Table I. While the host-plant associations for the 235 cerambycid species found in France were revealed over a period of 200 years (Tavakilian, 1993), most of the data presented here were assembled between 1991 and 1993. During this time, a massive study was conducted to document the biodiversity of an area of the Sinnamary River Basin subsequently inundated by a reservoir formed behind the Petit Saut Dam. Table I also incorporates the results from additional rearing experiments in French Guiana, as well as selected literature references. We propose a quantitative system to designate the reproductive-host specificity of cerambycid species reared, and discuss patterns of host utilization by beetle guilds associated with well-represented plant taxa.

III. Materials and Methods

A. SINNAMARY RIVER BASIN STUDY SITE

Most of the beetle–plant interactions reported on here were obtained from trees felled on the Sinnamary River in an area now inundated by the reservoir formed after the closure of the Petit Saut Dam.

The Sinnamary River Basin, covering 6000 km^2, is located in north central French Guiana. Because the Sinnamary Basin encompasses little relief and does not include savannas, the species richness of the basin is not as great as it is in areas of comparable size in other parts of French Guiana (Hoff, 1994). Variation in forest vegetation in the Sinnamary Basin is dictated by soil moisture, ranging from swamp forests dominated by *Euterpe oleracea* Martius at some places along rivers and streams to mixed forest on well-drained soil. The mixed forest does not differ fundamentally in structure and composition from this type of forest in other parts of French Guiana (Hoff, 1994, 1996).

Annual rainfall is usually less than 3000 mm. However, some areas may receive as little as 2000 mm and others as much as 3600 mm. There are two dry seasons each year, a long one from July to November and a short one in February and March. Winds are light throughout the year (Hoff, 1994).

Trees were felled at two localities in close proximity to one another. One study was located at the mouth of Crique Plomb and the other was situated between Crique Plomb and Crique Tigre at about 500 meters above Saut Tigre. The former site was subject to periodic inundation, whereas the latter site was situated at roughly 80 meters above the river and was not subject to inundation before the closure of the dam.

B. REARING EXPERIMENTS

Between 1991 and 1993, 690 trees and lianas were felled (a complete list of these can be made available upon request). The cuts were made during different parts of the dry season (July–November), when the adults of most cerambycid species are active. The plants belonged to 38 plant families. Abundant plant taxa included Moraceae, Malvales, Lecythidaceae, Sapotaceae, Fabales, and Apocynaceae. Although these taxa were represented by numerous samples, the selection of individuals was not random. Rare tree species and lianas were favored because it was anticipated that they might give rise to poorly known cerambycid species.

(Text continues on p. 346)

Table I

Neotropical tree species and their cerambycid faunas in French Guiana

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Subclass Magnoliidae **Order Magnoliales** **ANNONACEAE** *Anaxagorea dolichocarpa* Sprague & Sandwith / M23664	*Igualda posticalis* Thomson, 1868	ISD	Calliini
Annona ambotay Aublet / M23585	*Alphus senilis* Bates, 1862	S/GEN	Acanthoderini
A muricata Linneaus f. / *Marie-Francoise PREVOST det.[+]	*Alphus senilis* Bates, 1862	S/GEN	Acanthoderini
Guatteria schomburgkiana Martius / L1705	*Mecometopus triangularis* (Castelnau & Gory, 1836)	G	Clytini
Oxandra asbeckii (Pulle) R.E. Fries / L1734, L1761, M23388, M23573	*Hexoplon carissimum* (White, 1855) (L1761)	ISD	Ibidionini
	Odontocera trisignata Gounelle, 1911 (L1734, M23388, M23573)	S/SP	Rhinotragini
	Ommata sp 1400 (M23388, M23573)	S/SP	Rhinotragini
	Mecometopus triangularis (Castelnau & Gory, 1836) (L1734)	G	Clytini
	Macronemus antennator (Fabricius, 1801) (M23388, M23573)	G	Acanthoderini
Xylopia pulcherrima Sandwith / L1372, L1817	*Mecometopus triangularis* (Castelnau & Gory, 1836) (L1372)	G	Clytini
	Eupromerella clavator (Fabricius, 1801) (L1372)	ISD	Acanthoderini
	Oedopeza sp. 1327 (L1817)	G	Acanthocinini
X sericea Saint-Hilaire / *F2313	*Opades costipennis* (Buquet, 1844)	G	Eburiini
	Colobothea hirtipes (Degeer, 1775)	G	Colobotheini
MYRISTICACEAE *Iryanthera sagotiana* (Bentham) Warburg / *CTFT 1147	*Xenocrasis politipennis* (Zajciw, 1971)	ISD	Rhinotragini
Virola michelii Heckel / M23558	*Brasilianus plicatus* (Olivier, 1790)	G	Cerambycini
	Macropophora trochlearis (Linnaeus, 1758)	G	Acrocinini
V sebifera Aublet / L1586, L1594	*Jamesia globifera* (Fabricius, 1801) (L1586)	G	Onciderini
	Macropophora trochlearis (Linnaeus, 1758) (L1594)	G	Acrocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
V. surinamensis (Rolander) Warburg / L1602	*Symperasmus thoracicus* (White, 1855)	G	Acanthoderini
	Leptostylus plautus Monné & Hoffmann, 1981	G	Acanthocinini
	Nyssodrysternum signiferum (Bates, 1864)	G	Acanthocinini
	Toronaeus perforator Bates, 1864	G	Acanthocinini
Virola sp. / M23507	*Brasilianus plicatus* (Olivier, 1790)	G	Cerambycini
Order Laurales			
LAURACEAE			
Aniba parviflora (Meissner) Mez / S&P2130	*Phygopoda* sp. 1236	S/FAM	Rhinotragini
Licaria canella (Meissner) Kostermans / M23587	*Anoplomerus globulicollis* Buquet, 1860	S/FAM	Hesperophanini
L. martiniana (Mez) Kostermans / M23391, M23568	*Anoplomerus globulicollis* Buquet, 1860 (M23391)	S/FAM	Hesperophanini
	Phygopoda sp. 1236 (M23568)	S/FAM	Rhinotragini
L. rigida (Kostermans) Kostermans / L1720	*Ochrus* sp. 1346	S/FAM	Achrysonini
	Phygopoda sp. 1236	S/FAM	Rhinotragini
Mezilaurus itauba (Meissner) Taubert ex Mez / *L1243	*Ommata* sp. 1340	ISD	Rhinotragini
Ocotea argyrophylla Ducke / L1357, S&P2147	*Anoplomerus globulicollis* Buquet, 1860	S/FAM	Hesperophanini
O. guianensis Aublet / *F1505	*Anoplomerus globulicollis* Buquet, 1860	S/FAM	Hesperophanini
	Heterachthes tysiphonis (Thomson, 1867)	ISD	Ibidionini
	Cosmisoma speculiferum (Gory, 1831)	ISD	Rhopalophorini
	Lepturgantes seriatus Monné, 1988	ISD	Acanthocinini
O. rubra Mez / L1683, L1767	*Ochrus grammoderus* Lacordaire, 1869 (L1767)	ISD	Achrysonini
	Anoplomerus globulicollis Buquet, 1860 (L1683)	S/FAM	Hesperophanini
	Lepturges (Chaeturges) sp. 708 (L1767)	ISD	Acanthocinini
Ocotea sp / L1307, L1694, L1701, L1840, M23394, M23512, Daniel FOUQUET det.[+] by wood structure	*Parandra punctatissima* (Thomson, 1861) (Daniel FOUQUET det[+])	ISD	Parandrini
	Ochrus sp. 1346 (L1694, L1840)	S/FAM	Achrysonini
	Ozodes infuscatus Bates, 1870 (L1307)	G	Necydalopsini
	Mecometopus triangularis (Castelnau & Gory, 1836) (L1701, M23394, M23512)	G	Clytini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Ocotea sp contd	*Cosmisoma lineellum* Bates, 1870 (L1694)	ISD	Rhopalophorini
	Estola cayennensis Breuning, 1940 (M23512)	ISD	Desmiphorini
	Colobothea elongata Gahan, 1889 (L1307)	G	Colobotheini
Rhodostemonodaphne grandis (Mez) Rohwer / L1867, *S1473	*Mecometopus triangularis* (Castelnau & Gory, 1836) (L1867)	G	Clytini
	Paroecus charpentierae Villiers, 1971 (L1867, S1473)	S/FAM	Acanthocinini
	Colobothea obconica Aurivillius, 1902 (S1473)	ISD	Colobotheini
Subclass Hamamelidae **Order Urticales** **MORACEAE**			
Artocarpus altilis (S Parkinson) Fosberg / *Jean-Jacques de GRANVILLE det.[+]	*Taeniotes cayennensis* Thomson, 1859	S/FAM	Lamiini
	T. pulverulentus (Olivier, 1790)	ISD	Lamiini
	Acrocinus longimanus (Linnaeus, 1758)	S/LAT	Acrocinini
	Hylettus coenobita (Erichson, 1847)	S/LAT	Acanthocinini
	Atrypanius remissus (Erichson, 1847)	ISD	Acanthocinini
	Nyssodrysternum cretatum Monné, 1985	ISD	Acanthocinini
Bagassa guianensis Aublet /*Denis LOUBRY det.[+], *Yves CARAGLIO det.[+], *Christian FEUILLET det.[+]	*Taeniotes cayennensis* Thomson, 1859 (Denis LOUBRY det.[+])	S/FAM	Lamiini
	Acrocinus longimanus (Linnaeus, 1758) (Christian FEUILLET det.[+])	S/LAT	Acrocinini
	Oreodera bituberculata Bates, 1861 (Yves CARAGLIO det.[+])	G	Acanthoderini
	O. glauca (Linnaeus, 1758) (Denis LOUBRY det.[+])	G	Acanthoderini
	Atrypanius conspersus (Germar, 1824) (Denis LOUBRY det.[+])	S/FAM	Acanthocinini
Brosimum acutifolium Huber subsp. *acutifolium* C. C. Berg / S&P2105, C315	*Acrocinus longimanus* (Linnaeus, 1758) (C315)	S/LAT	Acrocinini
	Alphus malleri Lane, 1955 (S&P2105)	S/GEN	Acanthoderini
	Hylettus coenobita (Erichson, 1847) (C315)	S/LAT	Acanthocinini
B. guianense (Aublet) Huber / L1346, L1504, L1529, L1730, L1826, L1850, L1882, M23504, M23578	*Taeniotes cayennensis* Thomson, 1859 (M23578)	S/FAM	Lamiini
	Macropophora trochlearis (Linnaeus, 1758) (L1346, L1504, L1529, L1850, in Duffy)	G	Acrocinini
	Alphus malleri Lane, 1955 (L1730, L1826, L1850, L1882, M23504, M23578)	S/GEN	Acanthoderini
	Alphus sp. 1366 (L1826)	S/GEN	Acanthoderini
	Oreodera bituberculata Bates, 1861 (M23578)	G	Acanthoderini
	Hylettus coenobita (Erichson, 1847) (L1346, M23578)	S/LAT	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
B. guianense contd.	*Toronaeus magnificus* (Tippmann, 1953) (L1504, L1826, L1850, M23578)	S/GEN	Acanthocinini
	Nyssodectes sp. 275 (L1882)	ISD	Acanthocinini
	Nyssodrysina pulchella (Bates, 1863) (L1882)	S/LAT	Acanthocinini
	Nyssodrysternum caudatum (Bates, 1864) (L1346, L1504, L1730, L1826, L1850, L1882, M23504, M23578)	S/GEN	Acanthocinini
	N. flavolineatum Monné, 1985 (M23504)	S/GEN	Acanthocinini
	N. propinquum (Bates, 1864) (L1882, M23578)	G	Acanthocinini
	N. rodens (Bates, 1864) (L1882)	G	Acanthocinini
	N. signiferum (Bates, 1864) (L1826)	G	Acanthocinini
	N. simulatum (Bates, 1864) (L1826)	S/GEN	Acanthocinini
B. parinarioides Ducke / L1800, M15283, *S1487	*Cylicasta liturata* (Fabricius, 1801) (L1800)	ISD	Onciderini
	Acrocinus longimanus (Linnaeus, 1758) (M15283)	S/LAT	Acrocinini
	Alphus aurivillii Lane, 1970 (S1487)	S/ORD	Acanthoderini
	A. malleri Lane, 1955 (S1487)	S/GEN	Acanthoderini
	Alphus sp. 1366 (L1800)	S/GEN	Acanthoderini
	Myoxinus pictus (Erichson, 1847) (S1487)	ISD	Acanthoderini
	Nyssodrysternum caudatum (Bates, 1864) (S1487)	S/GEN	Acanthocinini
	N. propinquum (Bates, 1864) (L1800)	G	Acanthocinini
B. rubescens Taubert / L1383, L1731, L1839, M23640, *S1479, *Gérard TAVAKILIAN det.	*Orthomegas cinnamomeus* (Linnaeus, 1758) (Gérard TAVAKILIAN det.)	ISD	Callipogonini
	Mecometopus globicollis (Castelnau & Gory, 1836) (M23640)	G	Clytini
	Taeniotes cayennensis Thomson, 1859 (L1383)	S/FAM	Lamiini
	Acrocinus longimanus (Linnaeus, 1758) (S1479)	S/LAT	Acrocinini
	Alphus malleri Lane, 1955 (L1731, L1839, M23640, S1479)	S/GEN	Acanthoderini
	Hylettus coenobita (Erichson, 1847) (L1731, S1479, M23640)	S/LAT	Acanthocinini
	Nyssodrysternum caudatum (Bates, 1864) (L1839)	S/GEN	Acanthocinini
	N. flavolineatum Monné, 1985 (M23640)	S/GEN	Acanthocinini
	N. propinquum (Bates, 1864) (L1839)	G	Acanthocinini
	N. signiferum (Bates, 1864) (L1839)	G	Acanthocinini
	N. simulatum (Bates, 1864) (L1731, L1839, M23640)	S/GEN	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
B. rubescens contd.	*Toronaeus magnificus* (Tippmann, 1953) (L1383, L1731, M23640, S1479)	S/GEN	Acanthocinini
	Colobothea lineatocollis Bates, 1865 (L1383)	G	Colobotheini
B. utile (Kunth) Pittier subsp. *ovatifolium* (Ducke) C.C. Berg / M23490	*Acrocinus longimanus* (Linnaeus, 1758)	S/LAT	Acrocinini
	Macropophora trochlearis (Linnaeus, 1758)	G	Acrocinini
Brosimum sp. / *Daniel FOUQUET det.[+] by wood structure	*Oncideres chevrolati* Thomson, 1868	ISD	Onciderini
Clarisia ilicifolia (Sprengel) Lanjouw & Rossberg / *F1331	*Macropophora trochlearis* (Linnaeus, 1758)	G	Acrocinini
	Oreodera bituberculata Bates, 1861	G	Acanthoderini
Ficus cf. gomelleira Kunth & Bouche / *S1490	*Acrocinus longimanus* (Linnaeus, 1758)	S/LAT	Acrocinini
F. guianensis Desvaux / F1339, L1339, *S1785	*Taeniotes cayennensis* Thomson, 1859 (L1339)	S/FAM	Lamiini
	Acrocinus longimanus (Linnaeus, 1758) (F1339)	S/LAT	Acrocinini
	Oreodera glauca (Linnaeus, 1758) (S1785)	G	Acanthoderini
	Hylettus coenobita (Erichson, 1847) (L1339)	S/LAT	Acanthocinini
F. leiophylla C.C. Berg / *Christian FEUILLET det.[+]	*Atrypanius conspersus* (Germar, 1824)	S/FAM	Acanthocinini
	Carphina ligneola (Bates, 1865)	ISD	Acanthocinini
Ficus sp. / *Daniel SABATIER det.[+]	*Psapharochrus lateralis* (Bates, 1861)	G	Acanthoderini
Helicostylis tomentosa (Poeppig & Endlicher) Rusby / M23429	*Rosalba inscripta* (Bates, 1866)	ISD	Apomecynini
Perebea mollis (Poeppig & Endlicher) Huber / *S1450	*Acrocinus longimanus* (Linnaeus, 1758)	S/LAT	Acrocinini
	Hylettus coenobita (Erichson, 1847)	S/LAT	Acanthocinini
P. mollis Huber subsp. *rubra* (Trecul) C.C. Berg / M23401	*Alphus malleri* Lane, 1955	S/GEN	Acanthoderini
	Hylettus coenobita (Erichson, 1847)	S/LAT	Acanthocinini
	Nyssodrysternum caudatum (Bates, 1864)	S/GEN	Acanthocinini
	N. propinquum (Bates, 1864)	G	Acanthocinini
Trymatococcus oligandrus (R. Benoist) Lanjouw / M23538	*Macronemus antennator* (Fabricius, 1801)	G	Acanthoderini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
CECROPIACEAE			
Cecropia palmata Willdenow / L1570	*Macropophora trochlearis* (Linnaeus, 1758)	G	Acrocinini
	Drycothaea angustifrons (Breuning, 1943)	S/GEN	Callini
	D. brasiliensis (Breuning, 1974)	S/GEN	Callini
C. sciadophylla Martius / L1766, Christian FEUILLET det.[+]	*Lepturges complanatus* Bates, 1863 (Christian FEUILLET det.[+])	ISD	Acanthocinini
	Callia bicolor (Breuning, 1960) (Christian FEUILLET det.[+])	ISD	Calliini
	Drycothaea ochreoscutellaris (Breuning, 1940) (L1766)	ISD	Calliini
Cecropia sp. / *Gérard TAVAKILIAN det.[+]	*Drycothaea angustifrons* (Breuning, 1943)	S/GEN	Calliini
	D. brasiliensis (Breuning, 1974)	S/GEN	Callini
Coussapoa latifolia Aublet / L1077, L1340, L1524, M23681	*Neoclytus* sp. 649 (M23681)	G	Clytini
	Alphus aurivillii Lane, 1970 (L1340, M23681)	S/ORD	Acanthoderini
	Anisopodus phalangodes (Erichson, 1847) (L1340, M23681)	S/FAM	Acanthocinini
	Nyssodrysina binoculata (Bates, 1864) (L1524)	S/GEN	Acanthocinini
	Nyssodrysternum efflictum (Bates, 1864) (M23681)	G	Acanthocinini
	Toronaeus virens Bates, 1864 (M23681)	G	Acanthocinini
	gen. sp. 388 (L1077)	ISD	Colobotheini
Coussapoa sp. / M23682	*Nyssodrysternum efflictum* (Bates, 1864)	G	Acanthocinini
	Nyssodrysternum propinquum (Bates, 1864)	G	Acanthocinini
	Toronaeus virens Bates, 1864	G	Acanthocinini
Coussapoa sp. nov. / L1722 (C.C. Berg det.)	*Mecometopus triangularis* (Castelnau & Gory, 1836)	G	Clytini
	Anisopodus phalangodes (Erichson, 1847)	S/FAM	Acanthocinini
	Nyssodrysina binoculata (Bates, 1864)	S/GEN	Acanthocinini
	Priscilla hypsiomoides Thomson, 1864 (L1722)	ISD	Colobotheini
Pourouma melinonii R. Benoist / L1316, L1552	*Anisopodus batesi* Gilmour, 1965 (L1552)	G	Acanthocinini
	A. phalangodes (Erichson, 1847) (L1316)	S/FAM	Acanthocinini
	Colobothea elongata Gahan, 1889 (L1316)	G	Colobotheini
P. mollis Trecul subsp. *mollis* / S&P2122	*Anisopodus batesi* Gilmour, 1965	G	Acanthocinini
	Colobothea elongata Gahan, 1889	G	Colobotheini
P. bicolor Martius / L1809	*Alphus foveatus* Marinoni & Martins, 1978	G	Acanthoderini
	Nyssodrysternum sp. 217	ISD	Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Subclass Caryophyllidae **Order Polygonales** **POLYGONACEAE** *Coccoloba ascendens* Duss ex Lindau / M23621	*Odontocera* sp. 873	ISD	Rhinotragini
Subclass Dilleniidae **Order Dilleniales** **DILLENIACEAE** *Doliocarpus guianensis* (Aublet) Gilg / L1391	*Phrynocris notabilis* Bates, 1867	S/FAM	Hesperophanini
Doliocarpus sp. / M23428	*Phrynocris notabilis* Bates, 1867	S/FAM	Hesperophanini
Order Theales **CARYOCARACEAE** *Caryocar glabrum* (Aublet) Persoon / M23383, M23579, F2325	*Nyssodrysternum propinquum* (Bates, 1864) (M23579) *Tropidozineus impensus* Monné & Martins, 1976 (F2325, M23383, M23579)	G S/SP	Acanthocinini Acanthocinini
C. microcarpum Ducke / L1515	*Oreodera* sp 1006 *Nealcidion emeritum* (Erichson, 1847)	G ISD	Acanthoderini Acanthocinini
QUIINACEAE *Quiina oiapocensis* Pires / L1681, L1707	*Odontocera* sp. 1350 (L1681, L1707) *Mecometopus triangularis* (Castelnau & Gory, 1836) (L1681)	S/GEN G	Rhinotragini Clytini
Quiina sp. L1381	*Odontocera* sp. 1350	S/GEN	Rhinotragini
CLUSIACEAE *Caraipa ampla* Ducke / *Daniel SABATIER det [+]	*Oreodera jacquieri* Thomson, 1865	S/FAM	Acanthoderini
Clusia densifolia Martius / L1506, Christian FEUILLET det.[+]	*Oreodera jacquieri* Thomson, 1865 (Christian FEUILLET det [+]) *O. roppai* Monné & Fragoso, 1988 (L1506) *Oedopeza* sp. 1327 (L1506)	S/FAM ISD G	Acanthoderini Acanthoderini Acanthocinini
C. grandiflora Splitgerber / L1342, L1827, Marie-Francoise PREVOST det.[+], Daniel SABATIER det [+]	*Acanthoderes daviesi* (Swederus, 1787) (L1827) *Oreodera jacquieri* Thomson, 1865 (Daniel SABATIER det [+]) *Atrypanius* sp 372 (Marie-Francoise PREVOST det.[+])	S/SP S/FAM ISD	Acanthoderini Acanthoderini Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
C. grandiflora contd.	*Lepturges (Chaeturges) dorsalis* Tavakilian & Monné, 1989 (nec White, 1855) (L1342)	ISD	Acanthocinini
	Nyssodrysternum lemniscatum Monné, 1985 (L1342)	S/FAM	Acanthocinini
C. scrobiculata R. Benoist / Michel HOFF det.*	*Oreodera bituberculata* Bates, 1861	G	Acanthoderini
	O. jacquieri Thomson, 1865	S/FAM	Acanthoderini
	Anisopodus batesi Gilmour, 1965	G	Acanthocinini
	Nyssodrysternum lemniscatum Monné, 1985	S/FAM	Acanthocinini
Clusia sp. / M23649	*Oreodera jacquieri* Thomson, 1865	S/FAM	Acanthoderini
	Anisopodus batesi Gilmour, 1965	G	Acanthocinini
Moronobea coccinea Aublet / L1719, *S1784, M23636	*Heterachthes* sp. 929 (L1719)	ISD	Ibidionini
	Stenoidion amphigyum Martins, 1970 (M23636)	S/FAM	Ibidionini
	Acanthoderes laportei Aurivillius, 1923 (L1719)	S/FAM	Acanthoderini
	Nyssodrysternum lemniscatum Monné, 1985 (S1784)	S/FAM	Acanthocinini
	N. signiferum (Bates, 1864) (S1784)	G	Acanthocinini
Symphonia globulifera Linneaus f. / *F1342, L1583, M23553	*Brasilianus plicatus* (Olivier, 1790) (F1342, L1583, M23553)	G	Cerambycini
	Stenoidion amphigyum Martins, 1970 (M23553)	S/FAM	Ibidionini
	Jamesia globifera (Fabricius, 1801) (L1583)	G	Onciderini
	Macropophora trochlearis (Linnaeus, 1758) (L1583)	G	Acrocinini
	Oreodera sp. 118 (M23553)	ISD	Acanthoderini
	Nyssodrysternum lemniscatum Monné, 1985 (F1342)	S/FAM	Acanthocinini
	N. propinquum (Bates, 1864) (L1583, M23553)	G	Acanthocinini
Symphonia sp. / L1699	*Acanthoderes laportei* Aurivillius, 1923	S/FAM	Acanthoderini
Tovomita choisyana Planchon & Tulasne / M23446	*Nyssodrysternum lemniscatum* Monné, 1985	S/FAM	Acanthocinini
Tovomita sp. / M23411	*Amphicnaeia* sp.	ISD	Apomecynini
	gen. sp. 1402	ISD	Acanthocinini
Order Malvales			
ELAEOCARPACEAE			
Sloanea garckeana K. Schumann / *S1457	*Nyssodrysternum signiferum* (Bates, 1864)	G	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Sloanea sp / L1700, L1149, L1708, L1883, L1886, M23527, M23564, M23601, M23687	*Ectenessa ornatipennis* Tippmann, 1960 (L1149)	ISD	Achrysonini
	Periboeum pubescens (Olivier, 1790) (L1700)	(S/FAM)	Elaphidionini
	Neoclytus sp. 649 (M23527)	G	Clytini
	Mecometopus globicollis (Castelnau & Gory, 1836) (M23564, M23687)	G	Clytini
	M triangularis (Castelnau & Gory, 1836) (L1700, M23687)	G	Clytini
	Chlorida curta Thomson, 1857 (M23687)	G	Bothriospilina
	Trachyderes melas Bates, 1870 (M23564, M23687)	S/GEN	Trachyderina
	Symperasmus thoracicus (White, 1855) (M23601)	G	Acanthoderini
	Erphaea sp. 682 (L1886)	G	Acanthocinini
	Nyssodrysternum rodens (Bates, 1864) (L1883)	G	Acanthocinini
	N signiferum (Bates, 1864) (L1149, L1708, L1883)	G	Acanthocinini
	Toronaeus perforator Bates, 1864 (L1149, L1700, M23527)	G	Acanthocinini
	T. virens Bates, 1864 (L1883)	G	Acanthocinini
TILIACEAE			
Apeiba glabra Aublet / L1558	*Oreodera undulata* Bates, 1861	S/ORD	Acanthoderini
Lueheopsis rugosa (Pulle) M Burret / L1878	*Mecometopus triangularis* (Castelnau & Gory, 1836)	G	Clytini
	Colobothea lineatocollis Bates, 1865	G	Colobotheini
STERCULIACEAE			
Sterculia frondosa Richard / L1762	*Steirastoma melanogenys* White, 1855	S/ORD	Acanthoderini
Sterculia pruriens K. Schumann /*F1343, L1328, L1377, M23692	*Mecometopus triangularis* (Castelnau & Gory, 1836) (M23692)	G	Clytini
	Steirastoma breve (Sulzer, 1776) (L1328)	S/ORD	Acanthoderini
	S melanogenys White, 1855 (F1343, M23692)	S/ORD	Acanthoderini
	Anisopodus batesi Gilmour, 1965 (L1328)	G	Acanthocinini
	Erphaea sp 682 (L1377)	G	Acanthocinini
	Lepturges sp 710 (F1343)	S/ORD	Acanthocinini
Theobroma cacao L / *Daniel SABATIER det *	*Euthima rodens* (Bates, 1865)	G	Onciderini
	Oreodera glauca (Linnaeus, 1758)	G	Acanthoderini
	O. melzeri Monné & Fragoso, 1988	ISD	Acanthoderini
	Oedopeza ocellator (Fabricius, 1801)	G	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
T subincanum Martius / L1821	*Oreodera undulata* Bates, 1861	S/ORD	Acanthoderini
	Psapharochrus vetustus (Bates, 1880)	ISD	Acanthoderini
BOMBACACEAE			
Catostemma fragrans Bentham / L1680, L1724, L1794, M23417, M23534, *P2160	*Ectenessa* sp. 974 (L1724)	ISD	Achrysonini
	Mecometopus triangularis (Castelnau & Gory, 1836) (M23534)	G	Clytini
	Estoloides alboscutellaris Breuning, 1943 (L1724)	ISD	Desmiphorini
	Xenofrea sp. 560 (L1794)	ISD	Xenofreini
	Psapharochrus spinicornis (Tippmann, 1960) (L1794, M23417)	S/SP	Acanthoderini
	Steirastoma genisspina Schwarzer, 1923 (L1680, L1794, M23417, P2160)	S/SP	Acanthoderini
	S melanogenys White, 1855 (L1680, M23534)	S/ORD	Acanthoderini
	Hylettus seniculus (Germar, 1824) (L1680, M23417)	S/SP	Acanthocinini
	Lepturges limpidus Bates, 1872 (M23417)	ISD	Acanthocinini
	Lepturges sp. 710 (L1680, L1724, M23417, M23534)	S/ORD	Acanthocinini
	Nyssodrysternum efflictum (Bates, 1864) (L1680)	G	Acanthocinini
	N propinquum (Bates, 1864) (M23534)	G	Acanthocinini
	Ozineus sp. 1426 (L1680, L1724)	G	Acanthocinini
Ceiba pentandra Gaertner / *Marie-Francoise PREVOST det [+]	*Steirastoma breve* (Sulzer, 1776)	S/ORD	Acanthoderini
Pachira aquatica Aublet / L1319	*Steirastoma breve* (Sulzer, 1776)	S/ORD	Acanthoderini
	S. melanogenys White, 1855	S/ORD	Acanthoderini
P. insignis Savignone / L1824	*Steirastoma breve* (Sulzer, 1776)	S/ORD	Acanthoderini
	Toronaeus perforator Bates, 1864	G	Acanthocinini
MALVACEAE			
**Abelmoschus esculentus* (L) Moench	*Steirastoma breve* (Sulzer, 1776) (in DUFFY)	S/ORD	Acanthoderini
Order Lecythidales			
LECYTHIDACEAE			
Corythophora rimosa W A. Rodrigues subsp *rubra* Mori / L1685, L1704	*Periboeum pubescens* (Olivier, 1790) (L1685, L1704)	S/FAM	Elaphidionini
	Nyssodrysternum sigmiferum (Bates, 1864) (L1685)	G	Acanthocinini
	Palame mimetica Monné, 1985 (L1704)	S/FAM	Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Couratari guianensis Aublet / L1337, *S1771	*Periboeum pubescens* (Olivier, 1790) (L1337, S1771)	S/FAM	Elaphidionini
	Neobaryssinus marianae (Martins & Monné, 1974) (S1771)	S/GEN	Acanthocinini
	Neoeutrypanus mutilatus (Germar, 1824) (L1337)	S/FAM	Acanthocinini
	Palame anceps (Bates, 1864) (L1337)	S/FAM	Acanthocinini
	P. crassimana Bates, 1864 (L1337, S1771)	S/FAM	Acanthocinini
	P. mimetica Monné, 1985 (L1337)	S/FAM	Acanthocinini
	Xylergates elaineae Gilmour, 1962 (L1337, S1771)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (L1337)	S/FAM	Acanthocinini
C. calycina Sandwith / *L1000	*Neobaryssinus marianae* (Martins & Monné, 1974)	S/GEN	Acanthocinini
Eschweilera alata A.C. Smith / L1741, L1745	*Periboeum pubescens* (Olivier, 1790)	S/FAM	Elaphidionini
E. apiculata (Miers) A.C. Smith / M23451	*Periboeum pubescens* (Olivier, 1790)	S/FAM	Elaphidionini
	Palame anceps (Bates, 1864)	S/FAM	Acanthocinini
	P. mimetica Monné, 1985	S/FAM	Acanthocinini
E. collina Eyma / M23483, M23597	*Neoeutrypanus incertus* (Bates, 1864) (M23483, M23597)	S/FAM	Acanthocinini
	Palame crassimana Bates, 1864 (M23597)	S/FAM	Acanthocinini
	P. mimetica Monné, 1985 (M23597)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (M23483, M23597)	S/FAM	Acanthocinini
E. congestiflora (R. Benoist) Eyma / M23423, M23478	*Pilisphaerion exoticum* Martins & Napp, 1992 (M23478)	ISD	Elaphidionini
	Stratone rufotestacea Thomson, 1864 (M23423)	ISD	Heteropsini
	Neoeutrypanus mutilatus (Germar, 1824) (M23478)	S/FAM	Acanthocinini
	Xylergates elaineae Gilmour, 1962 (M23478)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (M23478)	S/FAM	Acanthocinini
E. coriacea (A. de Candolle) Martius ex O.C. Berg / L1341, L1846, *S1763	*Periboeum pubescens* (Olivier, 1790) (L1341, S1763)	S/FAM	Elaphidionini
	Neoeutrypanus incertus (Bates, 1864) (L1341)	S/FAM	Acanthocinini
	Neopalame sp. 228 (L1846)	ISD	Acanthocinini
	Oedopeza leucostigma Bates, 1864 (L1846)	S/FAM	Acanthocinini
	Palame anceps (Bates, 1864) (L1341, L1846)	S/FAM	Acanthocinini
	P. crassimana Bates, 1864 (L1341, L1846, S1763)	S/FAM	Acanthocinini
	P. mimetica Monné, 1985 (L1341, L1846)	S/FAM	Acanthocinini
	Xylergates elaineae Gilmour, 1962 (L1341, L1846)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (L1341)	S/FAM	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
E micrantha (O.C. Berg) Miers / M23479, *S1509	*Peribocum pubescens* (Olivier, 1790) (M23479, S1509)	S/FAM	Elaphidionini
	Xenofrea sp. 450 (M23629)	ISD	Xenofreini
	Neoeutrypanus incertus (Bates, 1864) (M23479)	S/FAM	Acanthocinini
	Palame anceps (Bates, 1864) (S1509)	S/FAM	Acanthocinini
	P. crassimana Bates, 1864 (M23479, S1509)	S/FAM	Acanthocinini
	Xylergates elaineae Gilmour, 1962 (M23479)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (M23629)	S/FAM	Acanthocinini
E parviflora (Aublet) Miers / L1709	*Peribocum pubescens* (Olivier, 1790)	S/FAM	Elaphidionini
	Neobaryssinus sp 851	ISD	Acanthocinini
	Neoeutrypanus incertus (Bates, 1864)	S/FAM	Acanthocinini
	Neopalame sp. 911	S/GEN	Acanthocinini
	Palame mimetica Monné, 1985	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957)	S/FAM	Acanthocinini
E sagotiana Miers / M23386, M23404, *S1762	*Peribocum pubescens* (Olivier, 1790) (M23386, M23404)	S/FAM	Elaphidionini
	Neoeutrypanus incertus (Bates, 1864) (M23386, S1762)	S/FAM	Acanthocinini
	Oedopeza leucostigma Bates, 1864 (S1762)	S/FAM	Acanthocinini
	Palame crassimana Bates, 1864 (M23386, S1762)	S/FAM	Acanthocinini
	P mimetica Monné, 1985 (M23386)	S/FAM	Acanthocinini
	Xylergates elaineae Gilmour, 1962 (S1762)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (M23386)	S/FAM	Acanthocinini
E wachenheimii (R Benoist) Sandwith / L1574, L1607, L1853, M23614	*Peribocum pubescens* (Olivier, 1790) (L1853, M23614)	S/FAM	Elaphidionini
	Neoeutrypanus incertus (Bates, 1864) (L1574, L1607, L1853)	S/FAM	Acanthocinini
	Oedopeza leucostigma Bates, 1864 (L1574)	S/FAM	Acanthocinini
	Palame anceps (Bates, 1864) (L1607)	S/FAM	Acanthocinini
	P. mimetica Monné, 1985 (M23614)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (L1574)	S/FAM	Acanthocinini
Eschweilera sp / L1782, L1801	*Peribocum pubescens* (Olivier, 1790) (L1801)	S/FAM	Elaphidionini
	Neoeutrypanus incertus (Bates, 1864) (L1801)	S/FAM	Acanthocinini
	Neopalame sp. 911 (L1801)	S/GEN	Acanthocinini
	Palame crassimana Bates, 1864 (L1801)	S/FAM	Acanthocinini
	P. mimetica Monné, 1985 (L1801)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (L1782, L1801)	S/FAM	Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Lecythis confertiflora (A.C. Smith) Mori / L1303, M23693	*Periboeum pubescens* (Olivier, 1790) (L1303)	S/FAM	Elaphidionini
	Neoeutrypanus incertus (Bates, 1864) (L1303, M23693)	S/FAM	Acanthocinini
	Palame mimetica Monné, 1985 (L1303)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (L1303, M23693)	S/FAM	Acanthocinini
L. corrugata Poiteau / L1511	*Periboeum pubescens* (Olivier, 1790)	S/FAM	Elaphidionini
	Palame crassimana Bates, 1864	S/FAM	Acanthocinini
L. holcogyne (Sandwith) Mori / S&P2108	*Periboeum pubescens* (Olivier, 1790)	S/FAM	Elaphidionini
	Neoeutrypanus mutilatus (Germar, 1824)	S/FAM	Acanthocinini
	Palame crassimana Bates, 1864	S/FAM	Acanthocinini
	Xylergates elaineae Gilmour, 1962	S/FAM	Acanthocinini
L. idatimon Aublet / M23484, M23531, M23547, *S1764	*Periboeum pubescens* (Olivier, 1790) (M23531, M23547)	S/FAM	Elaphidionini
	Palame crassimana Bates, 1864 (S1764)	S/FAM	Acanthocinini
	P. mimetica Monné, 1985 (M23484, M23531)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (S1764)	S/FAM	Acanthocinini
L. persistens Sagot subsp. *aurantiaca* Mori / *S1476	*Neoeutrypanus incertus* (Bates, 1864)	S/FAM	Acanthocinini
	Palame crassimana Bates, 1864	S/FAM	Acanthocinini
	P. mimetica Monné, 1985	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957)	S/FAM	Acanthocinini
L. persistens Sagot subsp *persistens* / L1347, L1502, L1601, M23589	*Periboeum pubescens* (Olivier, 1790) (L1347, M23589)	S/FAM	Elaphidionini
	Neoeutrypanus incertus (Bates, 1864) (L1347)	S/FAM	Acanthocinini
	Oedopeza leucostigma Bates, 1864 (L1502)	S/FAM	Acanthocinini
	Palame mimetica Monné, 1985 (L1347, L1601, M23589)	S/FAM	Acanthocinini
	Xylergatina pulchra (Lane, 1957) (L1347, L1502, M23589)	S/FAM	Acanthocinini
L. poiteaui O.C. Berg / L1520	*Xylergatina pulchra* (Lane, 1957)	S/FAM	Acanthocinini
Order Violales			
FLACOURTIACEAE			
Casearia acuminata de Candolle / *F2306	*Opades costipennis* (Buquet, 1844)	G	Eburiini
	Phygopoda subvestita (White, 1855)	ISD	Rhinotragini
Homalium guianense (Aublet) Oken / L1832	*Toronaeus virens* Bates, 1864	G	Acanthocinini
Laetia procera (Poeppig) Eichler / S&P2135	*Opades costipennis* (Buquet, 1844)	G	Eburiini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Order Ebenales			
SAPOTACEAE			
Chrysophyllum lucentifolium Cronquist subsp *pachycarpum* Pires & Pennington / L1788	*Ischasia* sp. 926	S/FAM	Rhinotragini
	Mionochroma aureotinctum (Bates, 1870)	S/FAM	Callichromatini
	M. vittatum (Fabricius, 1775)	S/FAM	Callichromatini
C. pomiferum (Eyma) Pennington / L1756, *S1464	*Acorethra zischkai* Tippmann, 1960	S/FAM	Rhinotragini
Chrysophyllum sp. aff. pomiferum / L1388	*Acorethra zischkai* Tippmann, 1960	S/FAM	Rhinotragini
C. prieurii A. de Candolle / L1713, M23457, M23502	*Ischasia* sp. 926 (L1713)	S/FAM	Rhinotragini
	Mionochroma aureotinctum (Bates, 1870) (M23457, M23502)	S/FAM	Callichromatini
	Pycnomorphus centrolineatus (Bates, 1862) (M23457)	S/FAM	Acanthoderini
C. sanguinolentum (Pierre) Baehni / *F1348, M23437, M23454, M23466, *S1791	*Protosphaerion signatipenne* Gounelle, 1909 (M23454)	S/FAM	Elaphidionini
	Ommata sp. 773 (F1348)	ISD	Rhinotragini
	Tomopterus consobrinus Gounelle, 1911 (S1791)	S/FAM	Rhinotragini
	Callichroma auricomum (Linnaeus, 1767) (M23437)	S/FAM	Callichromatini
	Mionochroma aureotinctum (Bates, 1870) (M23437, M23454)	S/FAM	Callichromatini
	M. aurosum (Schmidt, 1924) (F1348)	S/FAM	Callichromatini
	Desmiphora sp. 639 (F1348, M23454)	S/FAM	Desmiphorini
	Oreodera albata Villiers, 1971 (M23454, M23466)	S/LAT	Acanthoderini
	O. bituberculata Bates, 1861 (S1791)	G	Acanthoderini
	Pycnomorphus centrolineatus (Bates, 1862) (F1348, M23454, M23466)	S/FAM	Acanthoderini
	Pycnomorphus sp. 424 (F1348, M23437, M23454)	S/FAM	Acanthoderini
Ecclinusa guianensis Eyma / L1684, L1710, L1759, L1764, S1453, S1475	*Protosphaerion signatipenne* Gounelle, 1909 (L1684, L1710, L1759, S1453)	S/FAM	Elaphidionini
	Epimelitta sp. 988 (L1684)	ISD	Rhinotragini
	Ischasia sp. 926 (L1759, L1764)	S/FAM	Rhinotragini
	Ommata sp. 311 (L1684, L1710, L1759)	S/FAM	Rhinotragini
	Ommata sp. 986 (L1759)	ISD	Rhinotragini
	Tomopterus consobrinus Gounelle, 1911 (L1764)	S/FAM	Rhinotragini
	Tomopterus clavicornis Magno, 1995 (L1684, L1710, S1475, L1759, L1764)	S/FAM	Rhinotragini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
E. guianensis contd	*Tomopterus servillei* Magno, 1995 (L1684, L1710, L1764)	S/FAM	Rhinotragini
	Callichroma auricomum (Linnaeus, 1767) (L1764, S1475)	S/FAM	Callichromatini
	Mionochroma aureotinctum (Bates, 1870) (S1475)	S/FAM	Callichromatini
	Oreodera albata Villiers, 1971 (L1684, L1710, L1759)	S/LAT	Acanthoderini
	Pycnomorphus centrolineatus (Bates, 1862) (L1684, L1710, L1759, L1764)	S/FAM	Acanthoderini
	Pycnomorphus sp. 739 (S1475)	S/FAM	Acanthoderini
E sp aff guianensis Eyma / M23513, M23544	*Protosphaerion signatipenne* Gounelle, 1909 (M23513)	S/FAM	Elaphidionini
	Ischasia sp 926 (M23513)	S/FAM	Rhinotragini
	Ommata sp. 311 (M23513, M23544)	S/FAM	Rhinotragini
	Tomopterus obliquus Bates, 1870 (M23513)	S/FAM	Rhinotragini
	Tomopterus clavicornis Magno, 1995 (M23513, M23544)	S/SP	Rhinotragini
	Pycnomorphus sp. 739 (M23513)	S/FAM	Acanthoderini
E ramiflora Martius / *S1766	*Tomopterus consobrinus* Gounelle, 1911	S/FAM	Rhinotragini
	Mionochroma vittatum (Fabricius, 1775)	S/FAM	Callichromatini
Manilkara bidentata (A de Candolle) A Chevalier / *F1361, L1748, M23424, L1748, Daniel SABATIER det +	*Tomopterus aurantiacosignatus* Zajciw, 1969 (F1361, L1748)	S/SP	Rhinotragini
	Callichroma auricomum (Linnaeus, 1767) (Daniel SABATIER det +)	S/FAM	Callichromatini
		S/GEN	Callichromatini
	Callichroma velutinum (Fabricius, 1775) (L1748, M23424)	S/FAM	Callichromatini
	Mionochroma aureotinctum (Bates, 1870) (L1748)	S/FAM	Callichromatini
	M. aurosum (Schmidt, 1924) (L1748)	S/FAM	Callichromatini
	M. vittatum (Fabricius, 1775) (L1748)	S/FAM	Desmiphorini
	Desmiphora sp. 639 (L1748)		
M. huberi (Ducke) Standley / M23477, *S1469	*Protosphaerion signatipenne* Gounelle, 1909 (S1469)	S/FAM	Elaphidionini
	Tomopterus grossefoveolatus Zajciw, 1964 (M23477)	ISD	Rhinotragini
	Callichroma auricomum (Linnaeus, 1767) (M23477)	S/FAM	Callichromatini
	C velutinum (Fabricius, 1775) (S1469)	S/GEN	Callichromatini
	Mionochroma aureotinctum (Bates, 1870) (M23477)	S/FAM	Callichromatini
Micropholis cayennensis Pennington / *S1470	*Tomopterus consobrinus* Gounelle, 1911	S/FAM	Rhinotragini
	Tomopterus servillei Magno, 1995	S/FAM	Rhinotragini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
M guyanensis (A. de Candolle) Pierre / *F2317, L1320, M23408, M23440, M23508, M23561	*Temnopis oculata* Zajciw, 1960 (M23440)	ISD	Oemini
	Protosphaerion signatipenne Gounelle, 1909 (M23408, M23440, M23508, M23561)	S/FAM	Elaphidionini
	Ischasia sp 926 (F2317, M23408, M23440)	S/FAM	Rhinotragini
	Optomerus roppai Magno, 1995 (F2317, M23408, M23508, M23561)	S/SP	Rhinotragini
	Tomopterus obliquus Bates, 1870 (L1320, M23440)	S/FAM	Rhinotragini
	Tomopterus servillei Magno, 1995 (M23508, M23561)	S/FAM	Rhinotragini
	Mionochroma aureotinctum (Bates, 1870) (F2317, M23408, M23440)	S/FAM	Callichromatini
	M aurosum (Schmidt, 1924) (M23561)	S/FAM	Callichromatini
	Desmiphora sp. 639 (M23408)	S/FAM	Desmiphorini
	Oreodera albata Villiers, 1971 (M23408, M23561)	S/LAT	Acanthoderini
	Pycnomorphus centrolineatus (Bates, 1862) (F2317, M23408, M23440, M23508, M23561)	S/FAM	Acanthoderini
	Pycnomorphus sp 424 (M23508, M23561)	S/FAM	Acanthoderini
	Pycnomorphus sp. 739 (M23508, M23561)	S/FAM	Acanthoderini
M guyanensis (A de Candolle) Pierre subsp *duckeana* (Baehni) Pennington / *S2366	*Mionochroma vittatum* (Fabricius, 1775)	S/FAM	Callichromatini
M melinoniana Pierre / *Daniel SABATIER det [+]	*Mionochroma ocreatum* (Bates, 1870)	ISD	Callichromatini
M obscura Pennington / L1760, M23482	*Ischasia* sp. 926 (L1760)	S/FAM	Rhinotragini
	Tomopterus servillei Magno, 1995 (M23482)	S/FAM	Rhinotragini
	Lepturges (Chaeturges) sp. 356 (M23482)	ISD	Acanthocinini
Micropholis venulosa (Martius & Endlicher) Pierre / *S1776	*Ischasia* sp 817	ISD	Rhinotragini
Micropholis sp / M23519	*Tomopterus consobrinus* Gounelle, 1911	S/FAM	Rhinotragini
	Mionochroma aureotinctum (Bates, 1870)	S/FAM	Callichromatini
Pouteria ambelaniifolia (Sandwith) Pennington / *S1461	*Tomopterus consobrinus* Gounelle, 1911	S/FAM	Rhinotragini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
P bangii (Rusby) Pennington / L1314	*Callichroma auricomum* (Linnaeus, 1767)	S/FAM	Callichromatini
	Mionochroma aureotinctum (Bates, 1870)	S/FAM	Callichromatini
	Tomopterus obliquus Bates, 1870	S/FAM	Rhinotragini
	Tomopterus servillei Magno, 1995	S/FAM	Rhinotragini
Pouteria sp. aff caimito (Ruiz & Pavon) Radlkofer / L1526	*Mionochroma vittatum* (Fabricius, 1775)	S/FAM	Callichromatini
P cayennensis (A de Candolle) Eyma / L1711, L1723	*Protosphaerion signatipenne* Gounelle, 1909 (L1723)	S/FAM	Elaphidionini
	Ischasia sp 926 (L1723)	S/FAM	Rhinotragini
	Phygopoda sp. 654 (L1723)	S/FAM	Rhinotragini
	Tomopterus obliquus Bates, 1870 (L1711, L1723)	S/FAM	Rhinotragini
	Tomopterus servillei Magno, 1995 (L1723)	S/FAM	Rhinotragini
	Mionochroma aureotinctum (Bates, 1870) (L1711, L1723)	S/FAM	Callichromatini
	Oreodera basiradiata Tippmann, 1960 (L1711, L1723)	S/LAT	Acanthoderini
	Pycnomorphus centrolineatus (Bates, 1862) (L1711, L1723)	S/FAM	Acanthoderini
	Pycnomorphus sp. 424 (L1711, L1723)	S/FAM	Acanthoderini
	Ozineus sp. 1426, *aff. strigosus* (Bates, 1863) (L1711)	G	Acanthocinini
P. deliciosa Pennington / L1777	*Mionochroma vittatum* (Fabricius, 1775)	S/FAM	Callichromatini
P. gonggrijpii Eyma / *S1525	*Tomopterus obliquus* Bates, 1870	S/FAM	Rhinotragini
P. guianensis Aublet / *S1515, *S1759	*Tomopterus obliquus* Bates, 1870 (S1515)	S/FAM	Rhinotragini
	Mionochroma vittatum (Fabricius, 1775) (S1759)	S/FAM	Callichromatini
P hispida Eyma / *S3045	*Mionochroma vittatum* (Fabricius, 1775)	S/FAM	Callichromatini
	gen. sp. 1272	ISD	Acanthocinini
P. macrophylla (Lamarck) Eyma / L1862	*Tomopterus consobrinus* Gounelle, 1911	S/FAM	Rhinotragini
P oblanceolata Pires / L1736	*Ischasia* sp 926	S/FAM	Rhinotragini
	Tomopterus obliquus Bates, 1870	S/FAM	Rhinotragini
	Mionochroma aureotinctum (Bates, 1870)	S/FAM	Callichromatini
P singularis Pennington / *S1770	*Mionochroma vittatum* (Fabricius, 1775)	S/FAM	Callichromatini
Pouteria sp / L1771, L1842, L1852, L1880, L1881, M23395, M23396, M23405, M23438, M23480, M23487, M23522, M23604, M23653, M23663, M23666, M23677, *S1772	*Protosphaerion signatipenne* Gounelle, 1909 (M23395, M23405)	S/FAM	Elaphidionini
	Acorethra zischkai Tippmann, 1960 (M23604)	S/FAM	Rhinotragini
	Ischasia sp. 926 (L1881, M23395)	S/FAM	Rhinotragini
	Ischasia sp 1410 (M23666)	ISD	Rhinotragini
	Ommata sp. 311 (M23438)	S/FAM	Rhinotragini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Pouteria sp contd.	*Tomopterus consobrinus* Gounelle, 1911 (L1771, M23677)	S/FAM	Rhinotragini
	T. obliquus Bates, 1870 (M23395, M23396, M23405, M23487, M23653, M23663, M23666, M23677)	S/FAM	Rhinotragini
	Tomopterus clavicornis Magno, 1995 (M23438)	S/FAM	Rhinotragini
	Callichroma auricomum (Linnaeus, 1767) (L1842, M23677)	S/FAM	Callichromatini
	Monochroma aureotinctum (Bates, 1870) (L1842, L1881, M23395, M23480, M23487, M23522, M23663, M23666)	S/FAM	Callichromatini
	M. vittatum (Fabricius, 1775) (L1771, L1852, L1880, L1881)	S/FAM	Callichromatini
	Oreodera albata Villiers, 1971 (M23438)	S/LAT	Acanthoderini
	Pycnomorphus centrolineatus (Bates, 1862) (M23405)	S/FAM	Acanthoderini
	Pycnomorphus sp. 702 (M23653, M23663, S1772)	S/FAM	Acanthoderini
Pradosia cochlearia (Lecomte) Pennington / *F2322	*Phygopoda* sp. 654	S/FAM	Rhinotragini
	Monochroma aureotinctum (Bates, 1870)	S/FAM	Callichromatini
	Pycnomorphus sp. 702	S/FAM	Acanthoderini
P. ptychandra (Eyma) Pennington / L1828	*Monochroma aureotinctum* (Bates, 1870)	S/FAM	Callichromatini
	Pycnomorphus sp. 702	S/FAM	Acanthoderini
Subclass Rosidae			
Order Rosales			
CONNARACEAE			
Connarus perrottetii (A.P. de Candolle) Planchon / M23499, M23530	*Compsibidion basale* (White, 1855) (M23499, M23530)	S/GEN	Ibidionini
	Heterachthes sp. 394 (M23530)	ISD	Ibidionini
Connarus sp. / L1697	*Compsibidion basale* (White, 1855)	S/GEN	Ibidionini
	Odontocera sp. 1368	ISD	Rhinotragini
	Macronemus antennator (Fabricius, 1801)	G	Acanthoderini
CHRYSOBALANACEAE			
Couepia guianensis Aublet / M23432	*Toronaeus sumptuosus* Lane, 1973	S/FAM	Acanthocinini
C. guianensis Aublet subsp. *guianensis* Prance S&P2129	*Mecometopus globicollis* (Castelnau & Gory, 1836)	G	Clytini
	Chlorida curta Thomson, 1857	G	Bothriospilina
Hirtella glandulosa Sprengel / L1769, S&P2112	*Nyssodrysternum signiferum* (Bates, 1864)	G	Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Licania alba (Bernoulli) Cuatrecasas / *Daniel SABATIER det.[+]	*Toronaeus sumptuosus* Lane, 1973	S/FAM	Acanthocinini
L. cyathodes R. Benoist / *S1485	*Pycnomorphus* sp. 628	G	Acanthoderini
L. licaniiflora (Sagot) Fritsch / *F2314	*Toronaeus virens* Bates, 1864	G	Acanthocinini
Licania sp / L1355, M23426	*Platysternus hebraeus* (Fabricius, 1781) (M23426)	ISD	Anisocerini
	Toronaeus virens Bates, 1864 (L1355, M23426)	G	Acanthocinini
Order Fabales **tribe Swartzieae** (insertae sedis)			
Bocoa prouacensis Aublet / L1351, L1744, M23496, Daniel SABATIER det.[+]	*Cycnidolon approximatum* (White, 1855) (L1351, L1744)	S/FAM	Ibidionini
	Agaone notabilis (White, 1855) (Daniel SABATIER det.[+])	S/FAM	Rhinotragini
	Odontocera molorchoides (White, 1855) (L1351, L1744, M23496)	S/FAM	Rhinotragini
	Odontocera sp 1018 (L1744)	S/ORD	Rhinotragini
**Swartzia benthamiana* Miquel	*Oedopeza setigera* (Bates, 1864) (in DUFFY)	(S/FAM)	Acanthocinini
S. guianensis (Aublet) Urban / *S1522	*Cycnidolon approximatum* (White, 1855)	S/FAM	Ibidionini
	Agaone notabilis (White, 1855)	S/FAM	Rhinotragini
S oblanceolata Sandwith / *S2358	*Odontocera molorchoides* (White, 1855)	S/FAM	Rhinotragini
	Nyssodrysternum signiferum (Bates, 1864)	G	Acanthocinini
S panacoco (Aublet) Cowan / L1804, M23615	*Agaone notabilis* (White, 1855) (L1804, M23615)	S/FAM	Rhinotragini
	Odontocera molorchoides (White, 1855) (L1804, M23615)	S.FAM	Rhinotragini
	Odontocera sp 1018 (L1804, M23615)	S/ORD	Rhinotragini
	Oedopeza ocellator (Fabricius, 1801) (L1804)	G	Acanthocinini
S. polyphylla A. P de Candolle / M23413, M23594, L1192, L1735	*Cycnidolon approximatum* (White, 1855) (L1192, L1735, M23413)	S/FAM	Ibidionini
	Agaone notabilis (White, 1855) (L1192, M23413)	S/FAM	Rhinotragini
	Odontocera molorchoides (White, 1855) (L1192, M23413)	S/FAM	Rhinotragini
	Odontocera sp 1018 (L1735, M23413)	S/ORD	Rhinotragini
	Mecometopus globicollis (Castelnau & Gory, 1836) (L1192, M23413)	G	Clytini
	Nyssodrysternum efflictum (Bates, 1864) (L1735, M23413)	G	Acanthocinini
	Nyssodrysternum signiferum (Bates, 1864) (L1735, M23413)	G	Acanthocinini
	Colobothea hirtipes (Degeer, 1775) (L1735, M23594)	G	Colobothein

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
S. remiger Amshoff / L1387	*Gorybia semiopaca* Martins, 1976	ISD	Piezocerini
	Odontocera sp. 1018	S/ORD	Rhinotragini
MIMOSACEAE			
Abarema barbouriana (Standley) Barneby & Grimes / M23659	*Hemilissa catapotia* Martins, 1976	S/FAM	Piezocerini
	Thoracibidion ruficaudatum (Thomson, 1865)	S/FAM	Ibidionini
A. curvicarpa (Irwin) Barneby & Grimes / *G&S3312	*Lochmaeocles pulcher* Dillon & Dillon, 1946	S/FAM	Onciderini
	Oedopeza apicale (Gilmour, 1962)	S/ORD	Acanthocinini
	O. ocellator (Fabricius, 1801)	G	Acanthocinini
A. jupunba (Willdenow) Britton & Killip / *F2307, L1875, M23688	*Hemilissa catapotia* Martins, 1976 (F2307)	S/FAM	Piezocerini
	Thoracibidion ruficaudatum (Thomson, 1865) (F2307)	S/FAM	Ibidionini
	T. striatocolle (White, 1855) (F2307)	S/FAM	Ibidionini
	Oedopeza ocellator (Fabricius, 1801) (F2307, L1875, M23688)	G	Acanthocinini
	Colobothea exima Aurivillius, 1902 (F2307)	S/ORD	Colobotheini
Balizia pedicellaris (de Candolle) Barneby & Grimes / *F1341, *S1774	*Thoracibidion ruficaudatum* (Thomson, 1865) (F1341)	S/FAM	Ibidionini
	T. striatocolle (White, 1855) (F1341)	S/FAM	Ibidionini
	Lochmaeocles callidryas (Bates, 1865) (S1774)	ISD	Onciderini
	L. pulcher Dillon & Dillon, 1946 (F1341)	S/FAM	Onciderini
	Polyrhaphis papulosa (Olivier, 1795) (F1341)	S/FAM	Polyrhaphidini
	Nyssodrysternum serpentinum (Erichson, 1847) (S1774)	S/ORD	Acanthocinini
	Oedopeza ocellator (Fabricius, 1801) (F1341)	G	Acanthocinini
	Paroecus celebensis (Thomson, 1857) (F1341)	ISD	Acanthocinini
Enterolobium schomburgkii (Bentham) Bentham / L1579, L1763, L1874, M23652, S2367	*Hespereburia balouporum* Tavakilian & Monné, 1991 (M23652)	ISD	Hesperophanini
	Aposphaerion punctulatum Martins & Napp, 1992 (L1763)	S/FAM	Elaphidionini
	Hemilissa catapotia Martins, 1976 (L1763, L1874)	S/FAM	Piezocerini
	Thoracibidion ruficaudatum (Thomson, 1865) (L1763, S2367)	S/FAM	Ibidionini
	T. striatocolle (White, 1855) (L1763, L1874, S2367)	S/FAM	Ibidionini
	Phygopoda fulvitarsis Gounelle, 1911 (M23652)	ISD	Rhinotragini
	Oedopeza apicale (Gilmour, 1962) (L1579)	S/ORD	Acanthocinini
	O. ocellator (Fabricius, 1801) (L1763, S2367)	G	Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Hydrochorea corymbosa (L.C Richard) Barneby & Grimes / L1300, L1818	*Thoracibidion ruficaudatum* (Thomson, 1865) (L1300)	S/FAM	Ibidionini
	T striatocolle (White, 1855) (L1300)	S/FAM	Ibidionini
	Tybalmia pupillata (Pascoe, 1859) (L1300)	S/FAM	Onciderini
	Nyssodrysternum signiferum (Bates, 1864) (L1818)	G	Acanthocinini
	Oedopeza apicale (Gilmour, 1962) (L1300)	S/ORD	Acanthocinini
	O. ocellator (Fabricius, 1801) (L1300)	G	Acanthocinini
	O setigera (Bates, 1864) (L1300)	S/FAM	Acanthocinini
	Toronaeus virens Bates, 1864 (L1300)	G	Acanthocinini
	Colobothea macularis (Olivier, 1792) (L1300)	ISD	Colobotheini
Inga alba (Schwartz) Willdenow / L1749	*Thoracibidion striatocolle* (White, 1855)	S/FAM	Ibidionini
	Odontocera sp. 1376	ISD	Rhinotragini
	Phygopoda sp. 1377	ISD	Rhinotragini
	Chrysoprasis moerens White, 1853	S/FAM	Heteropsini
	Polyrhaphis papulosa (Olivier, 1795)	S/FAM	Polyrhaphidini
	Cosmotoma sp 313	S/ORD	Acanthocinini
I bourgoni (Aublet) de Candolle / *Daniel SABATIER det [+]	*Orthostoma chryseis* (Bates, 1870)	ISD	Compsocerini
	Chrysoprasis chlorogaster Aurivillius, 1910	G	Heteropsini
	Colobothea eximia Aurivillius, 1902	S/ORD	Colobotheini
I capitata Desvaux / *F1504	*Eburodacrys sexmaculata* (Olivier, 1790)	S/ORD	Eburiini
	Andraegoidus lacordairei lacordairei (Dupont, 1838)	ISD	Trachyderina
	Estola hirsuta (Degeer, 1775)	G	Desmiphorini
I. huberi Ducke / L1549, L1565	*Hesychotypa liturata* (Bates, 1865) (L1549)	G	Onciderini
	Tybalmia pupillata (Pascoe, 1859) (L1565)	S/FAM	Onciderini
	Oedopeza apicale (Gilmour, 1962) (L1565)	S/ORD	Acanthocinini
	O setigera (Bates, 1864) (L1565)	S/FAM	Acanthocinini
I lomatophylla (Bentham) Pittier / L1585	*Cosmotoma* sp 313	S/ORD	Acanthocinini
	Nyssodrysternum serpentinum (Erichson, 1847)	S/ORD	Acanthocinini
	Oedopeza ocellator (Fabricius, 1801)	G	Acanthocinini
I melinonis Sagot / L1780	*Nyssodrysternum serpentinum* (Erichson, 1847)	S/ORD	Acanthocinini
	Oedopeza ocellator (Fabricius, 1801)	G	Acanthocinini
I pilosula (L C. Richard) Macbride / *S1768	*Polyrhaphis papulosa* (Olivier, 1795)	S/FAM	Polyrhaphidini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Inga sp / L1374, L1582, L1864, L1871, M23456, M23491, M23501, M23549, M23654, M23669	*Brasilianus plicatus* (Olivier, 1790) (L1582)	G	Cerambycini
	Eburodacrys sp 1282 (M23501)	ISD	Eburiini
	Hemilissa catapotia Martins, 1976 (L1864, M23456)	S/FAM	Piezocerini
	Hemilissa sp. 1328 (L1374)	ISD	Piezocerini
	Thoracibidion striatocolle (White, 1855) (L1864, L1871)	S/FAM	Ibidionini
	Chrysoprasis moerens White, 1853 (M23491, M23549, M23669)	S/FAM	Heteropsini
	Hesychotypa jaspidea (Bates, 1865) (L1374)	ISD	Onciderini
	Polyrhaphis papulosa (Olivier, 1795) (M23501)	S/FAM	Polyrhaphidini
	Nyssodrysina venusta (Bates, 1863) (M23654)	ISD	Acanthocinini
	Oedopeza apicale (Gilmour, 1962) (L1374)	S/ORD	Acanthocinini
	O ocellator (Fabricius, 1801) (M23456)	G	Acanthocinini
	Pentheochaetes sp. 230 (M23654)	S/FAM	Acanthocinini
Parkia nitida Miquel / L1302, L1564, *S1511	*Eburodacrys* sp 1033 (S1511)	ISD	Eburiini
	Mephritus auricolle Tavakilian & Martins, 1991 (L1302)	ISD	Elaphidionini
	Thoracibidion striatocolle (White, 1855) (L1302)	S/FAM	Ibidionini
	Chrysoprasis sp. 1023 (L1302, S1511)	S/SP	Heteropsini
	Polyrhaphis spinosa (Drury, 1773) (L1302, L1564)	S/ORD	Polyrhaphidini
	Oedopeza ocellator (Fabricius, 1801) (L1564, S1511)	G	Acanthocinini
	Colobothea eximia Aurivillius, 1902 (L1302, L1564)	S/ORD	Colobotheini
P pendula (Willdenow) Bentham / *Daniel SABATIER det +	*Oncideres gemmata* Dillon & Dillon, 1946	ISD	Onciderini
P. velutina R Benoist / *S2369	*Polyrhaphis spinosa* (Drury, 1773)	S/ORD	Polyrhaphidini
Pseudopiptadenia suaveolens (Miquel) Grimes / L1743, M23575, S&P2121	*Hemilissa catapotia* Martins, 1976 (L1743)	S/FAM	Piezocerini
	Cycnidolon batesianum (White, 1855) (S&P2121)	S/ORD	Ibidionini
	Thoracibidion ruficaudatum (Thomson, 1865) (L1743)	S/FAM	Ibidionini
	Epimelitta sp 1355 (M23575)	ISD	Rhinotragini
	Mecometopus triangularis (Castelnau & Gory, 1836) (L1743)	G	Clytini
	Chrysoprasis aeneicollis (Buquet, 1844) (S&P2121)	ISD	Heteropsini
	Chrysoprasis sp 514 (S&P2121)	ISD	Heteropsini
	Cosmotoma adjuncta (Thomson, 1860) (S&P2121)	S/ORD	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Zygia cataractae (Kunth) L Rico / L1844	*Eburodacrys* sp. 636 (L1844)	G	Eburiini
	Nyssodrysternum signiferum (Bates, 1864) (L1844)	G	Acanthocinini
	Pentheochaetes sp. 230 (L1844)	S/FAM	Acanthocinini
Z. racemosa (Ducke) Barneby & Grimes / M23670, M23686, *S&P4085	*Thoracibidion ruficaudatum* (Thomson, 1865) (M23686)	S/FAM	Ibidionini
	Ommata sp 1017 (M23670, S&P4085)	S/SP	Rhinotragini
	Chrysoprasis moerens White, 1853 (M23670)	S/FAM	Heteropsini
Z. sabatieri Barneby & Grimes / L1747, M23605	*Hemilissa catapotia* Martins, 1976 (L1747)	S/FAM	Piezocerini
	Ceragenia leprieuri Buquet in Guérin-Méneville, 1844 (M23605)	S/ORD	Trachyderina
Z tetragona Barneby & Grimes / L1752	*Aposphaerion punctulatum* Martins & Napp, 1992	S/FAM	Elaphidionini
	Hemilissa catapotia Martins, 1976	S/FAM	Piezocerini
	Thoracibidion ruficaudatum (Thomson, 1865)	S/FAM	Ibidionini
	Macronemus antennator (Fabricius, 1801)	G	Acanthoderini
CAESALPINIACEAE			
Bauhinia guianensis Aublet / M23471, M23641, M23678	*Compsibidion charile* (Bates, 1870) (M23641)	ISD	Ibidionini
	Ischasia sp 1399 (M23641)	ISD	Rhinotragini
	Mecometopus globicollis (Castelnau & Gory, 1836) (M23641)	G	Clytini
	M. triangularis (Castelnau & Gory, 1836) (M23641)	G	Clytini
	Lissonotus equestris (Fabricius, 1787) (M23641, M23678)	S/ORD	Lissonotini
	Cylicasta sp. 1417 (M23641)	ISD	Oncoderini
	Estola sp 435 (M23641, M23678)	S/GEN	Desmiphorini
	gen sp 951 (M23641, M23678)	S/GEN	Acanthocinini
	gen sp 1393 (M23641, M23678)	ISD	Acanthocinini
	gen sp 1398 (M23641)	ISD	Acanthocinini
	Colobothea sp. 322 (M23471)	S/GEN	Colobotheini
	Hilobothea latevittata (Bates, 1865) (M23471, M23641, M23678)	S/GEN	Colobotheini
B outimouta Aublet / M23559	*Hemilissa opaca* Martins, 1976	G	Piezocerini
	Colobothea sp. 322	S/GEN	Colobotheini
	Hilobothea latevittata (Bates, 1865)	S/GEN	Colobotheini
Bauhinia sp / L1721	*Estola* sp 435	S/GEN	Desmiphorini
	gen sp. 951	S/GEN	Acanthocinini
	Hilobothea latevittata (Bates, 1865)	S/GEN	Colobotheini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Caesalpinia pulcherrima Swartz / *Marie-Francoise PREVOST det.[+]	*Lophopoeum carinatulum* Bates, 1863	ISD	Acanthocinini
Chamaecrista apoucouita (Aublet) Irwin & Barneby / L1823, *S&P3036	*Odontocera* sp. 1018 (L1823)	S/ORD	Rhinotragini
	Chrysoprasis floralis Bates, 1870 (S&P3036)	ISD	Heteropsini
	Macronemus antennator (Fabricius, 1801) (S&P3036)	G	Acanthoderini
Copaifera epunctata Amshoff / *L1070	*Onychocerus aculeicornis* (Kirby, 1818)	S/FAM	Anisocerini
	Pseudaethomerus lacordairei (Bates, 1862)	S/FAM	Acanthoderini
	Toronaeus perforator Bates, 1864	G	Acanthocinini
Crudia aromatica (Aublet) Willdenow / S&P2111	*Cicatrizocera bilistrata* (Lane, 1959)	S/ORD	Piezocerini
	Odontocera sp. 1018	S/ORD	Rhinotragini
	Cosmotoma sp. 313	S/ORD	Acanthocinini
C. bracteata Bentham / L1335, L1733, L1779, M23492, M23676, *S1787	*Cicatrizocera bilistrata* (Lane, 1959) (L1335, L1773, L1779, M23492, M23676)	S/ORD	Piezocerini
	Odontocera sp. 1018 (L1335, L1779)	S/ORD	Rhinotragini
	Batus barbicornis (Linnaeus, 1764) (L1773)	S/FAM	Trachyderina
	Macronemus antennator (Fabricius, 1801) (M23492)	G	Acanthoderini
	Cosmotoma adjuncta (Thomson, 1860) (L1335)	S/ORD	Acanthocinini
	Cosmotomidius sp. 1071 (S1787)	ISD	Acanthocinini
C. tomentosa Aublet / *Daniel SABATIER det.[+]	*Cicatrizocera bilistrata* (Lane, 1959)	S/ORD	Piezocerini
Dicorynia guianensis Amshoff / L1348, M23447	*Mecometopus triangularis* (Castelnau & Gory, 1836) (M23447)	G	Clytini
	Nyssodrysternum signiferum (Bates, 1864) (L1348, M23447)	G	Acanthocinini
	Toronaeus virens Bates, 1864 (L1348)	G	Acanthocinini
Eperua falcata Aublet / L1811, M23384, *Christian FEUILLET det.[+]	*Brasilianus plicatus* (Olivier, 1790) (in DUFFY)	G	Cerambycini
	Sphaerion cassum (Newman, 1841) (M23384)	S/FAM	Elaphidionini
	Cycnidolon batesianum (White, 1855) (M23384)	S/ORD	Ibidionini
	Chlorida curta Thomson, 1857 (M23384)	G	Bothriospilina
	Onychocerus aculeicornis (Kirby, 1818) (L1811)	S/FAM	Anisocerini
	Polyrhaphis spinosa (Drury, 1773) (L1811)	S/ORD	Polyrhaphidini
	Alphus foveatus Marinoni & Martins, 1978 (Christian FEUILLET det.[+])	G	Acanthoderini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
E falcata contd	*Pseudaethomerus lacordairei* (Bates, 1862) (L1811, M23384)	S/FAM	Acanthoderini
	Nyssodrysternum signiferum (Bates, 1864) (L1811)	G	Acanthocinini
	Toronaeus virens Bates, 1864 (M23384)	G	Acanthocinini
	Colobothea carneola Bates, 1865 (L1811)	G	Colobothemi
E grandiflora (Aublet) Bentham / L1605, Daniel SABATIER det.[+]	*Brasilianus plicatus* (Olivier, 1790) (Daniel SABATIER det [+])	G	Cerambycini
	Sphaerion cassum (Newman, 1841) (Daniel SABATIER det [+])	S/FAM	Elaphidionini
	Onychocerus aculeicornis (Kirby, 1818) (Daniel SABATIER det [+])	S/FAM	Anisocerini
	Toronaeus perforator Bates, 1864 (L1605)	G	Acanthocinini
E. rubiginosa Miquel / L1323, L1368, L1851, M23617	*Brasilianus plicatus* (Olivier, 1790) (L1368)	G	Cerambycini
	Eburodacrys sp (L1851)	ISD	Eburiini
	Sphaerion cassum (Newman, 1841) (L1323, L1368, L1851)	S/FAM	Elaphidionini
	Cycnidolon batesianum (White, 1855) (L1368)	S/ORD	Ibidionini
	Ommata elegans White, 1855 (L1851)	ISD	Rhinotragini
	Ommata sp. 1259 (M23617)	ISD	Rhinotragini
	Mecometopus triangularis (Castelnau & Gory, 1836) (L1323, L1368, L1851, M23617)	G	Clytini
	Chlorida curta Thomson, 1857 (L1851)	G	Bothriospilina
	C. denticulata Buquet, 1860 (L1323, L1851, M23617)	G	Bothriospilina
	Onychocerus aculeicornis (Kirby, 1818) (L1851)	S/FAM	Anisocerini
	Polyrhaphis spinosa (Drury, 1773) (L1368)	S/ORD	Polyrhaphidini
	Alphus foveatus Marinoni & Martins, 1978 (L1851)	G	Acanthoderini
	Macronemus antennator (Fabricius, 1801) (L1323)	G	Acanthoderini
	Pseudaethomerus lacordairei (Bates, 1862) (L1323, L1851, M23617)	S/FAM	Acanthoderini
	Nyssodrysternum efflictum (Bates, 1864) (L1323, M23617)	G	Acanthocinini
	Toronaeus virens Bates, 1864 (L1323)	G	Acanthocinini
	Colobothea carneola Bates, 1865 (L1323, L1851, L1368)	G	Colobothemi
Heterostemon sp / M23409, M23467, M23470	*Mecometopus globicollis* (Castelnau & Gory, 1836) (M23467)	G	Clytini
	M triangularis (Castelnau & Gory, 1836) (M23409)	G	Clytini
	Lissonotus equestris (Fabricius, 1787) (M23409, M23467)	S/ORD	Lissonotini
	Chlorida festiva (Linnaeus, 1758) (M23409)	G	Bothriospilina
	Alphus foveatus Marinoni & Martins, 1978 (M23409)	G	Acanthoderini
	Pseudaethomerus lacordairei (Bates, 1862) (M23467, M23470)	S/FAM	Acanthoderini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Hymenaea courbaril Linnaeus / *S&P 3490, *S&P3492, *Daniel FOUQUET det [+] by wood structure	*Achryson surinamum* (Linnaeus, 1767) (S&P 3490)	ISD	Achrysonini
	Brasilianus plicatus (Olivier, 1790) (S&P 3490)	G	Cerambycini
	Eburodacrys sexmaculata (Olivier, 1790) (S&P3492)	S/ORD	Eburiini
	Mecometopus leprieuri (Castelnau & Gory, 1836) (Daniel FOUQUET det.[+])	ISD	Clytini
	Chrysoprasis sp. 1030 (S&P 3490)	S/FAM	Heteropsini
	Lissonotus equestris (Fabricius, 1787) (S&P 3490)	S/ORD	Lissonotini
	Chlorida festiva (Linnaeus, 1758) (S&P3492)	G	Bothriospilina
	Batus barbicornis (Linnaeus, 1764) (in Lacordaire)	S/FAM	Trachyderina
	Trachyderes succinctus succinctus (Linnaeus, 1758) (S&P3492)	G	Trachyderina
	Polyrhaphis spinosa (Drury, 1773) (S&P 3490)	S/ORD	Polyrhaphidini
	Pseudaethomerus lacordairei (Bates, 1862) (S&P 3490)	S/FAM	Acanthoderini
	Granastyochus elegantissimus (Tippmann, 1953) (S&P 3490)	S/ORD	Acanthocinini
	Colobothea exima Aurivillius, 1902 (S&P 3490)	S/ORD	Colobotheini
Macrolobium bifolium (Aublet) Persoon / L1336, L1523, L1813	*Polyrhaphis fabricii* Thomson, 1865 (L1336)	ISD	Polyrhaphidini
	Alphus foveatus Marinoni & Martins, 1978 (L1336, L1813)	G	Acanthoderini
	Macronemus antennator (Fabricius, 1801) (L1523)	G	Acanthoderini
	Oreodera crinita Monné & Fragoso, 1988 (L1813)	ISD	Acanthoderini
	Pseudaethomerus lacordairei (Bates, 1862) (L1813)	S/FAM	Acanthoderini
	Cosmotoma adjuncta (Thomson, 1860) (L1523)	S/ORD	Acanthocinini
	Colobothea pimplaea Bates, 1865 (L1523)	S/ORD	Colobotheini
Peltogyne lecointei Ducke / *S3019	*Brasilianus plicatus* (Olivier, 1790)	G	Cerambycini
	Nyssodrysternum signiferum (Bates, 1864)	G	Acanthocinini
P venosa (Vahl) Bentham / *L836, L1686, M23622, M23632	*Brasilianus plicatus* (Olivier, 1790) (M23622, M23632)	G	Cerambycini
	Sphaerion cassum (Newman, 1841) (L1686)	S/FAM	Elaphidionini
	Sphaerion sp. 26 (L1686)	S/GEN	Elaphidionini
	Sphaerion sp. 524 (L1686)	ISD	Elaphidionini
	Mecometopus triangularis (Castelnau & Gory, 1836) (L1686, M23622, M23632)	G	Clytini
	Nyssodrysternum signiferum (Bates, 1864) (L1686, M23622)	G	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
P venosa contd	*Toronaeus virens* Bates, 1864 (M23622)	G	Acanthocinini
	Colobothea hirtipes (Degeer, 1775) (L836)	G	Colobotheini
Peltogyne sp / *Daniel FOUQUET det + by wood structure	*Sphaerion* sp 26	S/GEN	Elaphidionini
Sclerolobium albiflorum R Benoist / L1793	*Chrysoprasis rotundicollis* Bates, 1870	ISD	Heteropsini
S melinonii Harms / L1364, S&P2120	*Eburodacrys* sp. 636 (L1364, S&P2120)	G	Eburiini
	Chrysoprasis sp 1030 (L1364)	S/FAM	Heteropsini
S paraense Huber / L1380, M23542	*Hemilissa* sp 1330	ISD	Piezocerini
	Chrysoprasis sp. 1030	S/FAM	Heteropsini
	Chrysoprasis sp 1411	ISD	Heteropsini
S cf. paraense Huber / S&P2125, *S1465	*Eburodacrys* sp 636	G	Eburiini
	Homogenes leprieuri (Buquet, 1844) (S1465)	ISD	Heteropsini
**Tamarindus indica* Linnaeus	*Achryson surinamum* (Linnaeus, 1767) (in DUFFY)	ISD	Achrysonini
	Eburodacrys sexmaculata (Olivier, 1790) (in DUFFY)	S/ORD	Eburiini
Vouacapoua americana Aublet / *F1349, M23459, M23680, *S1500	*Orthostoma* sp 694 (S1500)	ISD	Compsocerini
	Mecometopus triangularis (Castelnau & Gory, 1836) (F1349, M23680)	G	Clytini
	Mecometopus sp 696 (F1349, M23459, M23680)	S/SP	Clytini
	Argyrodines pulchella Bates, 1867 (F1349)	ISD	Rhopalophorini
	Pycnomorphus sp 628 (F1349)	G	Acanthoderini
	Nyssodrysternum efflictum (Bates, 1864) (F1349, M23459)	G	Acanthocinini
FABACEAE	*Acyphoderes abdominalis* (Olivier, 1795)	S/FAM	Rhinotragini
Acosmium nitens (J Vogel) Yakovlev / M23644	*Mecometopus triangularis* (Castelnau & Gory, 1836)	G	Clytini
	Oedopeza apicale (Gilmour, 1962)	S/ORD	Acanthocinini
	Colobothea hirtipes (Degeer, 1775)	G	Colobotheini
Andira coriacea Pulle / *F1344, L1365, M23646, Denis LOUBRY det +	*Acyphoderes abdominalis* (Olivier, 1795) (F1344, M23646)	S/FAM	Rhinotragini
	Lissonotus equestris (Fabricius, 1787) (Denis LOUBRY det.+ 1995)	S/ORD	Lissonotini
	Mecometopus globicollis (Castelnau & Gory, 1836) (M23646)	G	Clytini
	M. triangularis (Castelnau & Gory, 1836) (M23646)	G	Clytini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
A coriacea contd.	*Nyssodrysternum signiferum* (Bates, 1864) (F1344, M23646)	G	Acanthocinini
	Toronaeus virens Bates, 1864 (L1365)	G	Acanthocinini
Dioclea violacea Martius ex Bentham / Daniel-Yves ALEXANDRE det [+]	*Sphallotrichus puncticolle* (Bates, 1870)	ISD	Cerambycini
Diplotropis purpurea (Richard) Amshoff / L591, L1712, *S&P3493	*Hemilissa* sp. 1311 (L1712)	ISD	Piezocerini
	Chlorida festiva (Linnaeus, 1758) (S&P3493)	G	Bothriospilina
	Pucallpa robusta Monné, 1978 (L1712)	ISD	Acanthocinini
	Hamatastus excelsus Monné, 1978 (L591)	ISD	Acanthocinini
	Colobothea appendiculata Aurivillius, 1902 (S&P3493)	ISD	Colobotheini
Dipteryx punctata (Blake) Amshoff / L1797	*Odontocera simplex* White, 1855	S/FAM	Rhinotragini
	Odontocera sp. 392	S/FAM	Rhinotragini
Dussia discolor (Bentham) Amshoff / M23412, M23625	*Granastyochus elegantissimus* (Tippmann, 1953) (M23412)	S/ORD	Acanthocinini
	Nyssodrysternum signiferum (Bates, 1864) (M23412, M23625)	G	Acanthocinini
Hymenolobium excelsum Bentham / *S1477	*Acyphoderes abdominalis* (Olivier, 1795)	S/FAM	Rhinotragini
	Chlorida festiva (Linnaeus, 1758)	G	Bothriospilina
	Nyssodrysternum signiferum (Bates, 1864)	G	Acanthocinini
Hymenolobium flavum Kleinhoonte / *L1245, L1362	*Acyphoderes abdominalis* (Olivier, 1795) (L1245, L1362)	S/FAM	Rhinotragini
	Odontocera colon (Bates, 1870) (L1362)	S/FAM	Rhinotragini
	Trachyderes succinctus succinctus (Linnaeus, 1758) (L1245)	G	Trachyderina
H. petraeum Ducke / M23694	*Acyphoderes abdominalis* (Olivier, 1795)	S/FAM	Rhinotragini
Lonchocarpus sp. / L1838	*Charoides tigrinata* (Thomson, 1868)	ISD	Onciderini
	Hypsioma constellata Thomson, 1868	ISD	Onciderini
	Trestonia forticornis Buquet, 1859	ISD	Onciderini
	Nyssodrysternum serpentinum (Erichson, 1847)	S/ORD	Acanthocinini
Machaerium sp. / L1815	*Oedopeza ocellator* (Fabricius, 1801)	G	Acanthocinini
	Carterica mucronata (Olivier, 1795)	ISD	Colobotheini
	Colobothea hirtipes (Degeer, 1775)	G	Colobotheini
	Colobothea sp 844	ISD	Colobotheini
Monopteryx uaupae Rodrigues / L1580, L1739	*Odontocera simplex* White, 1855 (L1739)	S/FAM	Rhinotragini
	Nyssodrysternum efflictum (Bates, 1864) (L1580, L1739)	G	Acanthocinini
	N. signiferum (Bates, 1864) (L1739)	G	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
M. inpae contd	*Toronaeus perforator* Bates, 1864 (L1739)	G	Acanthocinini
	T. virens Bates, 1864 (L1580, L1739)	G	Acanthocinini
Ormosia nobilis Tulasne / M23548, M23611	*Odontocera* sp. 938 (M23548)	ISD	Rhinotragini
	Ommata sp. 1329 (M23548)	S/FAM	Rhinotragini
	Mecometopus globicollis (Castelnau & Gory, 1836) (M23548)	G	Clytini
	M. triangularis (Castelnau & Gory, 1836) (M23611)	G	Clytini
	Chlorida festiva (Linnaeus, 1758) (M23611)	G	Bothriospilina
	Nyssodrysternum efflictum (Bates, 1864) (M23611)	G	Acanthocinini
	N. signiferum (Bates, 1864) (M23548, M23611)	G	Acanthocinini
	Toronaeus virens Bates, 1864 (M23611)	G	Acanthocinini
O. paraensis Ducke / L1796	*Cicatrizocera bilistrata* (Lane, 1959)	S/ORD	Piezocerini
	Cycnidolon batesianum (White, 1855)	S/ORD	Ibidionini
	Mecometopus globicollis (Castelnau & Gory, 1836)	G	Clytini
	Chlorida denticulata Buquet, 1860	G	Bothriospilina
Paramachaerium ormosioides (Ducke) Ducke / L1870, *S1782	*Mecometopus triangularis* (Castelnau & Gory, 1836) (L1870)	G	Clytini
	Ceragenia leprieurii Buquet in Guérin-Méneville, 1844 (L1870)	S/ORD	Trachyderina
	Macropophora trochlearis (Linnaeus, 1758) (S1782)	G	Acrocinini
	Nyssodrysternum serpentinum (Erichson, 1847) (L1870)	S/ORD	Acanthocinini
	Colobothea carneola Bates, 1865 (L1870)	G	Colobotheini
	C. hirtipes (Degeer, 1775) (L1870, S1782)	G	Colobotheini
Poecilanthe hostmanni (Bentham) Amshoff / M23668	*Odontocera colon* (Bates, 1870)	S/FAM	Rhinotragini
Pterocarpus officinalis N.J. Jacquin / L1366, L1382, L1569	*Colobothea hirtipes* (Degeer, 1775) L1366, L1382, L1569	G	Colobotheini
	C. pimplaea Bates, 1865 (L1382)	S/ORD	Colobotheini
Taralea oppositifolia Aublet / L1512, L1567, L1611, L1848	*Odontocera simplex* White, 1855 (L1611)	S/FAM	Rhinotragini
	Odontocera sp. 392 (L1512, L1567, L1611, L1848)	S/FAM	Rhinotragini
	Ommata (Eclipta) sp. 411 (L1611, L1848)	S/SP	Rhinotragini
	Oedopeza ocellator (Fabricius, 1801) (L1611)	G	Acanthocinini
Vatairea cf. paraensis Ducke / *S&P 3763	*Ommata* sp. 1329	S/FAM	Rhinotragini
	Lepturges (Chaeturges) repandus Tavakilian & Monné, 1989	ISD	Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Order Myrtales			
MYRTACEAE			
Psidium guajava Linnaeus / *Marie-Francoise PREVOST det [+]	*Trachyderes succinctus succinctus* (Linnaeus, 1758)	G	Trachyderina
MELASTOMATACEAE			
Miconia tschudyoides Cogniaux / L1792	*Ozodes infuscatus* Bates, 1870	G	Necydalopsini
COMBRETACEAE			
**Buchenavia capitata* (Vahl) Eichler	*Eburodacrys sulphureosignata* (Erichson, 1847) (in DUFFY)	G	Eburiini
B. nitidissima (L C. Richard) Alwan & Stace / L1390	*Oreodera* sp. 1006	G	Acanthoderini
	Carphina petulans (Kirsch, 1875)	ISD	Acanthocinini
Order Rhizophorales			
RHIZOPHORACEAE			
**Rhizophora* sp	*Eburodacrys sulphureosignata* (Erichson, 1847) (in DUFFY)	G	Eburiini
Order Santalales			
OLACACEAE			
Chaunochiton kappleri (Sagot ex Engler) Ducke / L1798	*Oreodera bituberculata* Bates, 1861	G	Acanthoderini
	Colobothea hirtipes (Degeer, 1775)	G	Colobotheini
Heisteria densifrons Engler / M23443	*Ommata paradisiaca* Tippmann, 1953	ISD	Rhinotragini
Minquartia guianensis Aublet / L1350	*Mecometopus globicollis* (Castelnau & Gory, 1836)	G	Clytini
Order Celastrales			
CELASTRACEAE			
Goupia glabra Aublet / *F2324	*Toronaeus perforator* Bates, 1864	G	Acanthocinini
Maytenus sp / M23495, M23540, M23554, Daniel FOUQUET det.[+] by wood structure	*Pygmodeon involutum* (Bates, 1870) (M23495, M23540, M23554)	S/GEN	Ibidionini
	Ommata sp 1255 (M23495, M23554)	S/GEN	Rhinotragini
	Chrysoprasis bipartita Zajciw, 1963	ISD	Heteropsini
HIPPOCRATEACEAE			
Cheiloclinium cognatum (Miers) A. C. Smith / S&P2152	*Phespia cercerina* (Bates, 1870)	ISD	Rhinotragini
Tontelea nectandrifolia (A. C. Smith) A. C. Smith / M23624	*Compsibidion multizonatum* Martins, 1969	ISD	Ibidionini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Order Euphorbiales **EUPHORBIACEAE** **Alchornea triplinervia* (Sprengel) Muller Argoviensis	*Trypanidius notatus* (Fabricius, 1787) (in DUFFY)	ISD	Acanthocinini
**A. floribunda* (Bentham) Muller Argoviensis	*Oreodera bituberculata* Bates, 1861 (in DUFFY)	G	Acanthoderini
	Psapharochrus lateralis (Bates, 1861) (in DUFFY)	G	Acanthoderini
Amanoa guianensis Aublet / L1825	*Ommata* sp. 1357	ISD	Rhinotragini
Chaetocarpus schomburgkianus Pax & K. Hoffmann / *F2316	*Mecometopus triangularis* (Castelnau & Gory, 1836)	G	Clytini
	Pycnomorphus sp. 628	G	Acanthoderini
Conceveiba guianensis Aublet / M23672, *S1447	*Ataxia obscura* (Fabricius, 1801) (M23672)	S/FAM	Pteropliini
	Oreodera albata Villiers, 1971 (S1447)	S/LAT	Acanthoderini
	O. basiradiata Tippmann, 1960 (S1447)	S/LAT	Acanthoderini
	O. glauca (Linnaeus, 1758) (S1447)	G	Acanthoderini
	Erphaea sp. 682 (M23672)	G	Acanthocinini
	Hylettus coenobita (Erichson, 1847) (S1447)	S/LAT	Acanthocinini
	Nyssodrysternum signiferum (Bates, 1864) (S1447)	G	Acanthocinini
	Colobothea hirtipes (Degeer, 1775) (S1447)	G	Colobothein
Croton matourensis Aublet / L1376	*Mecometopus triangularis* (Castelnau & Gory, 1836)	G	Clytini
Drypetes variabilis Uittien / *Daniel SABATIER det.[+]	*Eburodacrys puella* (Newman, 1840)	ISD	Eburiini
	Macropophora trochlearis (Linnaeus, 1758)	G	Acrocinini
	Oreodera bituberculata Bates, 1861	G	Acanthoderini
Drypetes sp. / L1855	*Nyssodrysternum rodens* (Bates, 1864)	G	Acanthocinini
Glycydendron amazonicum Ducke / *L1246	*Mecometopus aurantiisignatus* Zajciw, 1964	S/FAM	Clytini
	Macropophora trochlearis (Linnaeus, 1758)	G	Acrocinini
Hevea brasiliensis (A. Jussieu) Muller-Argoviensis / *Fabrice PINARD det [+] 1995	*Malacopterus tenellus* (Fabricius, 1801)	S/GEN	Oemini
	Mecometopus aurantiisignatus Zajciw, 1964	S/FAM	Clytini
	M. triangularis (Castelnau & Gory, 1836)	G	Clytini
	Trachyderes succinctus succinctus (Linnaeus, 1758)	G	Trachyderina
	Hesychotypa liturata (Bates, 1865)	G	Onciderini
	Oreodera bituberculata Bates, 1861	G	Acanthoderini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
H brasiliensis contd.	*Nealcidion triangulare* (Bates, 1863)	S/LAT	Acanthocinini
	Colobothea lineatocollis Bates, 1865	G	Colobotheini
H guianensis Aublet / L1738, M23418, M23536	*Malacopterus tenellus* (Fabricius, 1801) (L1738, M23418)	S/GEN	Oemini
	Mecometopus aurantiisignatus Zajciw, 1964 (L1738, M23536)	S/FAM	Clytini
	M triangularis (Castelnau & Gory, 1836) (L1738)	G	Clytini
	Chlorida denticulata Buquet, 1860 (L1738)	G	Bothriospilina
	C. festiva (Linnaeus, 1758) (L1738, M23418)	G	Bothriospilina
	Macropophora trochlearis (Linnaeus, 1758) (M23418)	G	Acrocinini
	Nyssodrysina pulchella (Bates, 1863) (L1738)	G	Acanthocinini
	Nyssodrysternum efflictum (Bates, 1864) (M23418)	G	Acanthocinini
	N signiferum (Bates, 1864) (L1738, M23418)	G	Acanthocinini
	Colobothea carneola Bates, 1865 (L1738)	G	Colobotheini
	C. lineatocollis Bates, 1865 (L1738)	G	Colobotheini
**Hura crepitans* Linnaeus	*Onychocerus crassus* (Voet, 1778) (in DUFFY)	G	Anisocerini
	Lagocheirus araneiformis fulvescens Dillon, 1957 (in DUFFY)	G	Acanthocinini
Manihot esculenta Crantz / *Guy COUTURIER det.[+]	*Anisopodus lignicola* Bates, 1863	ISD	Acanthocinini
Pausandra martinii Baillon / *S&P4164	*Stenoidion corallinum* (Bates, 1870)	ISD	Ibidionini
	Mecometopus triangularis (Castelnau & Gory, 1836)	G	Clytini
	Helvina uncinata Thomson, 1864	ISD	Agapanthiini
	Ataxia obscura (Fabricius, 1801)	S/FAM	Pteropliini
	Esthlogena albolineata (Breuning, 1940)	ISD	Pteropliini
	Estola annulata (Fabricius, 1801)	ISD	Desmiphorini
	Oreodera basipenicillata Tippmann, 1960	ISD	Acanthoderini
	Hemicladus dejeani Buquet, 1857	ISD	Calliini
**Pera glabrata* (Schott) Baillon	*Anisopodus phalangodes* (Erichson, 1847) (in DUFFY)	(S/FAM)	Acanthocinini
Sapium glandulosum (Linnaeus) Morong / M15364	*Oreodera bituberculata* Bates, 1861	G	Acanthoderini
S paucinervium Hemsley / S&P2151	*Oreodera bituberculata* Bates, 1861	G	Acanthoderini
	Trypanidius notatus (Fabricius, 1787)	ISD	Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Order Linales			
HUMIRIACEAE			
Humiria balsamifera (Aublet) Saint-Hilaire / M23461	*Ozodes infuscatus* Bates, 1870	G	Necydalopsini
Vantanea parviflora Lamarck / L706	*Jamesia globifera* (Fabricius, 1801)	G	Onciderini
Order Polygalales			
VOCHYSIACEAE			
Qualea rosea Aublet / L1610, L1835	*Mecometopus triangularis* (Castelnau & Gory, 1836) (L1835)	G	Clytini
	Symperasmus thoracicus (White, 1855) (L1610)	G	Acanthoderini
	Nyssodrysternum signiferum (Bates, 1864) (L1610)	G	Acanthocinini
	Toronaeus perforator Bates, 1864 (L1610)	G	Acanthocinini
Vochysia neyratii Normand / M23465, *S1483	*Ozodes infuscatus* Bates, 1870 (M23465, S1483)	G	Necydalopsini
	Psapharochrus bivittis (White, 1855) (M23465, S1483)	S/GEN	Acanthoderini
V. tomentosa (G.F.W. Meyer) de Candolle / *F2304	*Ozodes infuscatus* Bates, 1870	G	Necydalopsini
	Psapharochrus bivittis (White, 1855)	S/GEN	Acanthoderini
	Toronaeus perforator Bates, 1864	G	Acanthocinini
Order Sapindales			
BURSERACEAE			
Protium apiculatum Swart / L1318	*Brasilianus lasiocerus* (Gahan, 1892)	S/GEN	Cerambycini
	Oreodera neglecta Melzer, 1932	S/FAM	Acanthoderini
	Stenolis incisa (Bates, 1864)	ISD	Acanthocinini
	Toronaeus suavis Bates, 1864	S/FAM	Acanthocinini
P. sp. aff. aracouchini (Aublet) Marchand / *S1778, *S2368	*Nyssicus* sp. 74 (S2368)	ISD	Elaphidionini
	Oreodera neglecta Melzer, 1932 (S2368)	S/FAM	Acanthoderini
	Hylettus spilotus Monné, 1982 (S1778)	S/FAM	Acanthocinini
	Nyssodrysternum sp. 216 (S2368)	ISD	Acanthocinini
	Nyssodrysternum sp. 969 (S2368)	ISD	Acanthocinini
P. opacum Swart var. *rabelianum* Daly / L1810, L1868, L1872	*Mecometopus triangularis* (Castelnau & Gory, 1836) (L1810)	G	Clytini
	Oreodera neglecta Melzer, 1932 (L1810)	S/FAM	Acanthoderini
	Hylettus spilotus Monné, 1982 (L1868, L1872)	S/FAM	Acanthocinini
	Toronaeus simillimus Monné, 1974 (L1810)	ISD	Acanthocinini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged [b]	Host spec.[c]	Cerambycid tribe
P subserratum (Engler) Engler / L1753, L1773	*Nyssicus* sp. 69 (L1773)	ISD	Elaphidionini
	Mecometopus triangularis (Castelnau & Gory, 1836) (L1753)	G	Clytini
Protium sp / *F2308, L1544, L1859	*Brasilianus lasiocerus* (Gahan, 1892) (L1859)	S/GEN	Cerambycini
	Mecometopus triangularis (Castelnau & Gory, 1836) (L1859)	G	Clytini
	Hylettus spilotus Monné, 1982 (F2308)	S/FAM	Acanthocinini
	Nealcidion sp 1321 (L1544)	ISD	Acanthocinini
	Toronaeus suavis Bates, 1864 (F2308)	S/FAM	Acanthocinini
	Tropidozineus argutulus Monné, 1988 (L1859)	ISD	Acanthocinini
Tetragastris panamensis (Engler) Kuntze / M23543	*Nyssicus rosalesi* Joly & Martinez, 1981	ISD	Elaphidionini
	Mecometopus globicollis (Castelnau & Gory, 1836)	G	Clytini
Trattinnickia demerarae Sandwith / L1389	*Brasilianus plicatus* (Olivier, 1790)	G	Cerambycini
	Nyssicus aureopilosus Lacey, 1949	ISD	Elaphidionini
	Oreodera neglecta Melzer, 1932	S/FAM	Acanthoderini
	Hylettus spilotus Monné, 1982	S/FAM	Acanthocinini
	Toronaeus figuratus Bates, 1864	ISD	Acanthocinini
	Toronaeus suavis Bates, 1864	S/FAM	Acanthocinini
**T rhoifolia* Willdenow	*Brasilianus plicatus* (Olivier, 1790) (in DUFFY)	G	Cerambycini
	Toronaeus figuratus Bates, 1864 (in DUFFY)	ISD	Acanthocinini
ANACARDIACEAE			
Anacardium occidentale Linnaeus / *Gérard TAVAKILIAN det.[+]	*Nyssicus conspicillatus* (Erichson, 1847) (in DUFFY)	S/GEN	Elaphidionini
	Oncideres repandator (Fabricius, 1792) (Gérard TAVAKILIAN det.[+])	S/FAM	Onciderini
A spruceanum Bentham ex Engler / L1808	*Nyssicus conspicillatus* (Erichson, 1847)	S/GEN	Elaphidionini
	Mecometopus triangularis (Castelnau & Gory, 1836)	G	Clytini
	Onychocerus concentricus Bates, 1862	ISD	Anisocerini
	Macropophora trochlearis (Linnaeus, 1758)	G	Acrocinini
	Nyssodrysternum signiferum (Bates, 1864)	G	Acanthocinini
Anacardium sp / L1750	*Nyssicus conspicillatus* (Erichson, 1847)	S/GEN	Elaphidionini
	Nyssodrysternum efflictum (Bates, 1864)	G	Acanthocinini
	N. propinquum (Bates, 1864)	G	Acanthocinini
	N. signiferum (Bates, 1864)	G	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Astronium ulei Mattick / *P2161	*Brasilianus batus* (Linnaeus, 1758)	ISD	Cerambycini
Mangifera indica Linnaeus / *Gérard TAVAKILIAN det [+]	*Chlorida festiva* (Linnaeus, 1758) (in DUFFY)	G	Bothriospilina
	Oncideres repandator (Fabricius, 1792) (Gérard TAVAKILIAN det [+])	S/FAM	Onciderini
**Spondias mombin* Linnaeus	*Onychocerus crassus* (Voet, 1778) (in DUFFY)	G	Anisocerini
	Lagocheirus araneiformis fulvescens Dillon, 1957 (in DUFFY)	G	Acanthocinini
Tapirira bethanniana Mitchell / L1308, L1373, *S2362	*Brasilianus plicatus* (Olivier, 1790) (L1308, S2362)	G	Cerambycini
	Mecometopus triangularis (Castelnau & Gory, 1836) (L1308, L1373)	G	Clytini
	Nyssodrysternum efflictum (Bates, 1864) (L1308)	G	Acanthocinini
T guianensis Aublet / *S1495	*Coremia plumipes* (Pallas, 1772)	ISD	Compsocerini
	Mecometopus globicollis (Castelnau & Gory, 1836)	G	Clytini
T. obtusa (Bentham) Mitchell / L1370	*Mecometopus globicollis* (Castelnau & Gory, 1836)	G	Clytini
	M triangularis (Castelnau & Gory, 1836)	G	Clytini
Tapirira sp. / L1765	*Colobothea elongata* Gahan, 1889	G	Colobothetni
Thyrsodium guianense Sagot ex Marchand / M23642	*Mecometopus globicollis* (Castelnau & Gory, 1836)	G	Clytini
	Nyssodrysternum efflictum (Bates, 1864)	G	Acanthocinini
T puberulum Mitchell / *S2357	*Nyssodrysternum signiferum* (Bates, 1864)	G	Acanthocinini
SIMAROUBACEAE			
Simaba sp / *Christophe TARDY det [+] by wood structure	*Symperasmus affinis* (Thomson, 1865)	S/FAM	Acanthoderini
Simarouba amara Aublet / *F1345, *F2375	*Psapharochrus lateralis* (Bates, 1861) (F2375)	G	Acanthoderini
	Symperasmus affinis (Thomson, 1865) (F1345)	S/FAM	Acanthoderini
	Lagocheirus araneiformis fulvescens Dillon, 1957 (F2375)	G	Acanthocinini
	Leptostylus plautus Monné & Hoffmann, 1981 (F2375)	G	Acanthocinini
	Nyssodrysternum signiferum (Bates, 1864) (F2375)	G	Acanthocinini
	Oedopeza ocellator (Fabricius, 1801) (F2375)	G	Acanthocinini
	Toronaeus perforator Bates, 1864 (F1345)	G	Acanthocinini
MELIACEAE			
Carapa procera A P de Candolle / *F2321, L1332, L1576, L1584, M23552	*Macropophora trochlearis* (Linnaeus, 1758) (F2321, L1332, L1576, L1584)	G	Acrocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Carapa procera contd	*Oreodera bituberculata* Bates, 1861 (F2321, L1584)	G	Acanthoderini
	Leptostylus plautus Monné & Hoffmann, 1981 (F2321)	G	Acanthocinini
	Nyssodrysternum propinquum (Bates, 1864) (F2321)	G	Acanthocinini
	Pattalinus vittulatus (Gilmour, 1961) (F2321, M23552)	S/SP	Acanthocinini
RUTACEAE			
Zanthoxylum rhoifolium Lamarck / *Jean-Jacques de GRANVILLE det +	*Listroptera tenebricosa* (Olivier, 1790)	ISD	Cleomenini
Order Apiales			
ARALIACEAE			
Schefflera decaphylla (Seemann) Harms / *F2312, L1755, M23529, M23600	*Mecometopus triangularis* (Castelnau & Gory, 1836) (M23529)	G	Clytini
	Macropophora trochlearis (Linnaeus, 1758) (M23600)	G	Acrocinini
	Psapharochrus lateralis (Bates, 1861) (L1755)	G	Acanthoderini
	Anisopodus sparsus Bates, 1863 (F2312, M23600)	S/GEN	Acanthocinini
	Nyssodrysternum propinquum (Bates, 1864) (F2312)	G	Acanthocinini
	N. signiferum (Bates, 1864) (F2312)	G	Acanthocinini
S morototoni (Aublet) Maguire, Steyermark & Frodin / *F1510	*Euthima rodens* (Bates, 1865)	G	Oncideriní
	Anisopodus sparsus Bates, 1863	S/GEN	Acanthocinini
	Lagocheirus araneiformis fulvescens Dillon, 1957	G	Acanthocinini
Subclass Asteridae			
Order Gentianales			
LOGANIACEAE			
Strychnos jobertiana Baillon / M23452	*Mecometopus globicollis* (Castelnau & Gory, 1836)	G	Clytini
S melinoniana Baillon / L1349	*Acanthoderes* sp. 509	ISD	Acanthoderini
APOCYNACEAE			
Allamanda cathartica Linnaeus / *Georges CREMERS det + 1991	*Estola hirsuta* (Degeer, 1775)	G	Desmiphorini
Aspidosperma album (Vahl) R. Benoist ex Pichon / L1737	*Hemilissa opaca* Martins, 1976	G	Piezocerini
	Lepturges (Chaeturges) serenus Monné, 1977	S/GEN	Acanthocinini
A. cruentum R.E. Woodson / L1682, L1695	*Hemilissa cornuta* Bates, 1870 (L1682, L1695)	S/GEN	Piezocerini
	H. opaca Martins, 1976 (L1682)	G	Piezocerini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
A cruentum contd	*Lepturges (Chaeturges) serenus* Monné, 1977 (L1682)	S/GEN	Acanthocinini
	Nyssodrysternum sp. 838 (L1682)	S/FAM	Acanthocinini
A. marcgravianum R.E Woodson / *CTFT 1150, L1344	*Hemilissa cornuta* Bates, 1870 (L1344, CTFT 1150)	S/GEN	Piezocerini
	H. opaca Martins, 1976 (CTFT 1150, L1344)	G	Piezocerini
	Lepturges (Chaeturges) serenus Monné, 1977 (CTFT 1150)	S/GEN	Acanthocinini
A sandwithianum Markgraf / L652	*Hemilissa cornuta* Bates, 1870	S/GEN	Piezocerini
Condylocarpon amazonicum (Markgraf) Ducke / M23517	*Colobothea geminata* Bates, 1865	S/FAM	Colobothetini
Couma guianensis Aublet / *F2311, *L1039, L1352, *S1792	*Jamesia globifera* (Fabricius, 1801) (L1039)	G	Onciderini
	Acrocinus longimanus (Linnaeus, 1758) (F2311)	S/LAT	Acrocinini
	Macropophora trochlearis (Linnaeus, 1758) (L1352)	G	Acrocinini
	Oreodera bituberculata Bates, 1861 (L1039)	G	Acanthoderini
	Hylettus coenobita (Erichson, 1847) (S1792)	S/LAT	Acanthocinini
	Nealcidion triangulare (Bates, 1863) (L1039)	S/LAT	Acanthocinini
	Nyssodrysternum sp 838 (L1039) (F2311)	S/FAM	Acanthocinini
Forsteronia acouci (Aublet) A P. de Candolle / M23627	*Colobothea geminata* Bates, 1865	S/FAM	Colobothetini
Forsteronia sp. / M23639	*Colobothea geminata* Bates, 1865	S/FAM	Colobothetini
Himatanthus articulatus (Vahl) Woodson / M23546	*Oreodera bituberculata* Bates, 1861	G	Acanthoderini
	Leptostylus plautus Monné & Hoffmann, 1981	G	Acanthocinini
	Nyssodrysternum propinquum (Bates, 1864)	G	Acanthocinini
	N. signiferum (Bates, 1864)	G	Acanthocinini
H bracteatus (de Candolle) Woodson / L1732, M23489, M23516	*Oreodera bituberculata* Bates, 1861 (L1732)	G	Acanthoderini
	Psapharochrus lateralis (Bates, 1861) (M23516)	G	Acanthoderini
	Nyssodrysina pulchella (Bates, 1863) (M23489)	S/LAT	Acanthocinini
	Nyssodrysternum propinquum (Bates, 1864) (M23489)	G	Acanthocinini
	Toronaeus virens Bates, 1864 (L1732, M23516)	G	Acanthocinini
Lacmellea aculeata (Ducke) Monachino / M23541, M23602	*Macropophora trochlearis* (Linnaeus, 1758) (M23602)	G	Acrocinini
	Nyssodrysternum propinquum (Bates, 1864) (M23541)	G	Acanthocinini
L. floribunda (Poeppig) Bentham & Hooker f. / L1369, L1754	*Macropophora trochlearis* (Linnaeus, 1758) (L1754)	G	Acrocinini
	Nyssodrysternum propinquum (Bates, 1864) (L1369)	G	Acanthocinini

TABLE I contd

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Odontadenia perrottetii (A. de Candolle) R. E. Woods / L1689	*Hemilissa opaca* Martins, 1976 *Jamesia globifera* (Fabricius, 1801)	G G	Piezocerini Onciderini
Parahancornia fasciculata (Poiret) R. Benoist ex Pichon / *C11365, L561, L1814	*Acrocinus longimanus* (Linnaeus, 1758) (C11365, L561) *Nyssodrysina pulchella* (Bates, 1863) (L1814)	S/LAT S/LAT	Acrocinini Acanthocinini
Order Solanales **SOLANACEAE** *Capsicum* sp. / *Jean-Francois MOLINO det.[+]	*Nealcidion deletum* (Bates, 1880)	S/FAM	Acanthocinini
Solanum schomburgkii Sendtner/ *Marie-Francoise PREVOST det.[+]	*Nealcidion deletum* (Bates, 1880)	S/FAM	Acanthocinini
S melongena Linnaeus / *Gérard TAVAKILIAN det [+]	*Adetus pulchellus* (Thomson, 1868) *Hippopsis macrophthalma* Breuning, 1940 *Estola m-flava* Breuning, 1940 *Nealcidion deletum* (Bates, 1880)	ISD ISD ISD S/FAM	Apomecynini Agapanthiini Desmiphorini Acanthocinini
CONVOLVULACEAE *Maripa* sp. / M23592	*Bisaltes buqueti* Thomson, 1868 *Colobothea hirtipes* (Degeer, 1775)	ISD G	Apomecynini Colobotheini
Order Lamiales **BORAGINACEAE** *Cordia exaltata* Lamarck / *F1509	*Desmiphora fasciculata* (Olivier, 1792)	ISD	Desmiphorini
VERBENACEAE *Avicennia germinans* (Linnaeus) Stearn / *Michel HOFF det [+]	*Colobothea hirtipes* (Degeer, 1775)	G	Colobotheini
Order Scrophulariales **BIGNONIACEAE** *Jacaranda copaia* (Aublet) D. Don / *F1346	*Gnomidolon melanosomum* Bates, 1870	ISD	Ibidionini
Memora moringifolia (A. P d C.) Sandwith / M23406	*Aneuthetochorus simplex* Martins, 1970	ISD	Callidiopini
Order Rubiales **RUBIACEAE** *Capirona decorticans* Spruce / *S&P 1947	*Haruspex lineolatus* Bates, 1870	ISD	Piezocerini

TABLE I contd.

Plant taxon / collection[a]	Cerambycid species emerged[b]	Host spec.[c]	Cerambycid tribe
Faramea corymbosa Aublet / *P2490	*Megacyllene angulata* (Fabricius, 1775)	ISD	Clytini
	Chrysoprasis chlorogaster Aurivillius, 1910	G	Heteropsini
	C. hypocrita Erichson, 1847	ISD	Heteropsini
Subclass Arecidae **Order Arecales** **ARECACEAE**			
Maximiliana maripa (Correa de Serra) Drude / *Jean-Jacques de GRANVILLE det.[+], *Gérard TAVAKILIAN det.[+]	*Macrodontia cervicornis* (Linnaeus, 1758) (Jean-Jacques de GRANVILLE det.[+])	ISD	Macrodontini
	Eusapia guyanensis Hüdepohl, 1988 (Gérard TAVAKILIAN det.[+])	ISD	Hesperophanini
	Tenthras obliteratus Thomson, 1864 (Gérard TAVAKILIAN det.[+])	ISD	Acanthocinini
	T. setosus Monné & Tavakilian, 1990 (Gérard TAVAKILIAN det.[+])	ISD	Acanthocinini

[a] Plant specimens are listed with their collection voucher numbers. The letter preceding the number indicates the collector: Christian Feuillet (F), Denis Loubry (L), Scott Mori (M), Marie-Françoise Prévost (P) or Daniel Sabatier (S). Collections that did not originate in the Sinnamary River Basin are marked with an asterisk. Wood collections without vouchers are indicated by the name of the person who made the determination, followed by 'det [+] '

[b] Entries derived from the literature are thus noted

[c] Beetle species are classified according to their host specificity as generalists (G) or specialists associated with a single plant species (S/SP), genus (S/GEN), family (S/FAM) order (S/ORD), or latex-producing families (S/LAT). There was insufficient data (ISD) to classify the many cerambycids represented by a single host record When an emergence has been recorded for a cerambycid species primarily associated with an unrelated plant taxon, the classification refers to the primary host and is in parentheses. For this classification of host specificity, the legume tribe Swartzieae has been treated as part of the Fabaceae.

Voucher specimens were collected from the plants, identified by specialists, and deposited in major herbaria (NY, P, CAY). Collections in the 1991 and 1992 field seasons were made by Denis Loubry (collection numbers preceded by "L" in Table I), and collections in 1993 were made by Scott Mori (collection numbers preceded by "M" in Table I). Wood specimens were also collected and deposited at CTFT (the French research organization responsible for the study of wood) and the United States Forest Products Laboratory wood collection at Madison, Wisconsin. During the 1992 and 1993 field seasons, additional small wood samples were collected, preserved in methanol, and delivered to the laboratory of Barbara Meurer-Grimes (Lehman College, CUNY) for chemical analysis.

The felled trees were left on the forest floor for a period of about four months, and during this interval cerambycids had the opportunity to lay their eggs. Several site visits were made after each cut, to observe and collect cerambycid visitors. After four months the dead trees were surveyed for signs of insect attack, such as oviposition scars or piles of ejected frass. Sections of trunk or thick branch (80 cm long) were removed, along with some thin twigs, and placed into cages. The cages were monitored twice a week, newly emerged adult beetles were identified, and representatives were drymounted (see Hequet & Tavakilian, 1996, for the preparation protocol). The cerambycid specimens are deposited at ORSTOM, Cayenne.

C. ADDITIONAL DATA

Data from earlier experiments at Sinnamary and additional experiments in other parts of French Guiana are also included in Table I. These data bring the total number of plant families investigated to 48. Branches were collected by Christian Feuillet, Daniel Sabatier, and Marie-Françoise Prévost (abbreviated as "F," "S," and "P," respectively, in Table I), and rearing experiments were conducted as described above. Certain cerambycid host-plant associations described in Duffy, 1960, confirm or supplement results from the rearing experiments, and are therefore included in Table I.

IV. Results and Discussion

Table I provides a list of plant specimens yielding beetles, collection voucher numbers of the plants, associated species of cerambycids, and the tribes to which the beetles belong. Plant families are listed following the nomenclature and systematic concepts of Cronquist (1981). For each plant species, the associated cerambycid species are listed following Monné and Giesbert (1994), with tribes arranged to reflect presumed phylogeny, but with genera and species arranged alphabetically. Longicorn species that have not yet been described ($n = 90$, >25% of the species reared) are listed under their working numbers to facilitate identification for the analysis of host specificity. These species will be described in a forthcoming monograph (Tavakilian, in prep.). Collections that did not originate in the Sinnamary River Basin are marked with an asterisk, and entries derived from the literature are thus noted.

A. CLASSIFICATION OF HOST SPECIFICITY

An additional column in Table I proposes a hypothetical host utilization strategy for each cerambycid species. Herbivores may be broadly classified as generalists (those which attack numerous unrelated plant species) or specialists (those which attack a limited set of plants, usually taxonomically related, but also sometimes unrelated plants that produce similar chemicals). The terms "oligophagous" and "monophagous" have been used to describe specialists showing progressively greater fidelity in their choice of host plant(s), but unfortu-

nately these terms have been used with little consistency (see summary in May & Ahmad, 1983).

To facilitate the interpretation of the data in Table I, we have used an alternate list of emergences (Tavakilian, unpubl. data), which records all documented host plants of each cerambycid species, to classify the host fidelity of each longicorn species reared. Generalists are denoted "G," and specialists are categorized according to the taxonomic level of the host plant(s) utilized. "S/ORD" indicates that a beetle species is associated with plants belonging to a particular plant order, and "S/FAM," "S/GEN," and "S/SP" refer to beetle species reproductively restricted to a particular plant family, genus, or species, respectively. There is, in addition, a small group of longicorns which reproduce in trees that are not taxonomically related but that belong to families characterized by the production of milky latex. These beetles are considered chemical specialists, and classified "S/LAT."

A longicorn has been tentatively assigned to a particular category if there are at least two host-plant records directly derived from rearing experiments in French Guiana. When there are numerous host plant records, 90% of them must be in accord for a beetle to be retained in a category. For instance, if a cerambycid species has been reared from nine plant specimens belonging to the same genus and only once from an alternate genus, that species is considered "S/GEN," or a specialist associated with the first genus. However, if the cerambycid species has been reared from eight plant specimens belonging to a single genus and twice from an alternate genus in the same plant family, that beetle is considered "S/FAM." Should the cerambycid species be reared eight times from plant specimens belonging to a single genus and twice from specimens belonging to a different plant family, that beetle would be downgraded to "G." These classifications are considered hypothetical, because many of them are supported by very little data, but they nevertheless enable us to perceive meaningful trends in host-plant fidelity.

Many cerambycid species have not been classified as either generalists or specialists, because even after the intensive sampling in the Sinnamary River Basin, they are represented by a single host-plant record. In Table I these beetles are classified "ISD," for insufficient data. This is actually the largest class (see Fig. 1), because almost 47% ($n = 163$) of the cerambycid species reared are represented by a single host-plant record! These beetles might conceivably be rare specialists that are principally associated with plant taxa that were not sampled, or they might optimally reproduce in living wood, wood at a different stage of decompositon, or at a different time of the year.

Fewer than 13% ($n = 44$) of the cerambycid species were classified as generalists (Fig. 1). Many of the beetles in this category have numerous host-plant records confirming successful reproduction in trees belonging to many different unrelated plant families. Some examples are *Chlorida festiva* (Fig. 2c), *Macropophora trochlearis, Mecometopus triangularis, Nyssodrysternum signiferum, Oreodera bituberculata,* and *Toronaeus virens.* Some cerambycids classified as generalists are disproportionately represented in association with a particular plant taxon, but fewer than 90% of the records are from that taxon. Species such as *Macronemus antennator* and *Oedopeza ocellator* are associated primarily with legumes, which have been extensively sampled, but also reproduce in some unrelated trees. Other longicorns, such as *Chrysoprasis chlorogaster,* are represented by only two host records from unrelated plants. Pending additional data, they are also provisionally classified as generalists.

The remaining cerambycid species reared (>40%; $n = 141$) display a higher degree of host specificity and usually reproduce in a group of taxonomically related plants. When all plant taxa are included, specialists outnumber generalists >3:1, but different plant taxa give rise to cerambycid faunas with quite different ratios of specialist to generalist (Fig. 1). In addition,

the highest taxonomic rank of the selected host plant(s) differs from one plant taxon to the next. When all plant taxa are included, more than one-half of the specialists are associated with a particular plant family, and fewer than one-quarter are associated with a particular plant genus. Specialist cerambycids regularly recognize only two groups of plants at the ordinal level: Fabales and Malvales. This might be an indication either of little chemical divergence among the families composing the order (not likely to be the case for the legumes but possible for Malvales) or of confusion in the current taxonomic concept. Other closely related pairs of plant families, such as Moraceae/Cecropiaceae and Burseraceae/Anacardiaceae, support longicorn guilds that are largely independent. Of all 348 cerambycid species reared, only 13 species (<4%) appear to be reproductively dependent on a single plant species. Eight of these associations are supported by only two host records, and might not be confirmed if sampling was continued!

B. BEETLE GUILDS OF ABUNDANTLY REPRESENTED PLANT TAXA

The plant taxa treated in Fig. 1 (Moraceae, Malvales, Lecythidaceae, Sapotaceae, Fabales, and Apocynaceae) were among those especially well represented in the Sinnamary River Basin, in terms of both numbers of species and individuals present. These and other abundant plant taxa were visited by large and often diverse beetle guilds (see Fig. 2 for representative cerambycids). These guilds are usually composed of numerous taxonomically unrelated cerambycids, although most guilds do include a few genera represented by several species. Cerambycid guilds associated with some of these plant taxa are discussed below.

1. Moraceae

The 36 plant specimens (approximately 16 spp., 8 genera) investigated gave rise to 32 cerambycid species. The host specificity of almost one-third of these species (31%) cannot be determined, due to insufficient data, and the remaining species are almost evenly divided between specialists (38%) and generalists (31%). Half of the specialists were associated with the genus *Brosimum,* represented by 21 plant specimens. These beetles were *Alphus malleri, Alphus* sp. 1366, *Nyssodrysternum caudatum, N. flavolineatum, N. simulatum,* and *Toronaeus magnificus,* all of which belong to the related tribes Acanthoderini and Acanthocinini in the subfamily Lamiinae. These large tribes are composed of small to medium-sized, cryptic, nocturnal beetles. Two beetle species were specialists at the family level, three species were associated with several plant families characterized by milky latex, and *Alphus aurivilli* was the sole species reared from both Moraceae and the closely related family Cecropiaceae. In the past, some authors have treated the Cecropiaceae as part of the Moraceae (e.g. Takhtajan, 1969), but in our study Cecropiaceae gave rise to an independent longicorn guild including two species of *Drycothaea, Anisopodus phalangodes,* and *Nyssodrysina binoculata.*

2. Malvales

The Malvalean families Eleaocarpaceae, Tiliaceae, Sterculiaceae, Bombacaceae, and Malvaceae were represented by 29 plant specimens (at least 12 spp., 8 genera) which gave rise to 33 cerambycid species. Of the longicorns associated with this plant group, almost 24% of the species had only a single host record, and 53% were generalists. There were eight specialists, but half of these were associated with more than a single family in the order. Three specialists emerged solely from *Catostemma fragrans,* belonging to the Bombacaceae. This tree

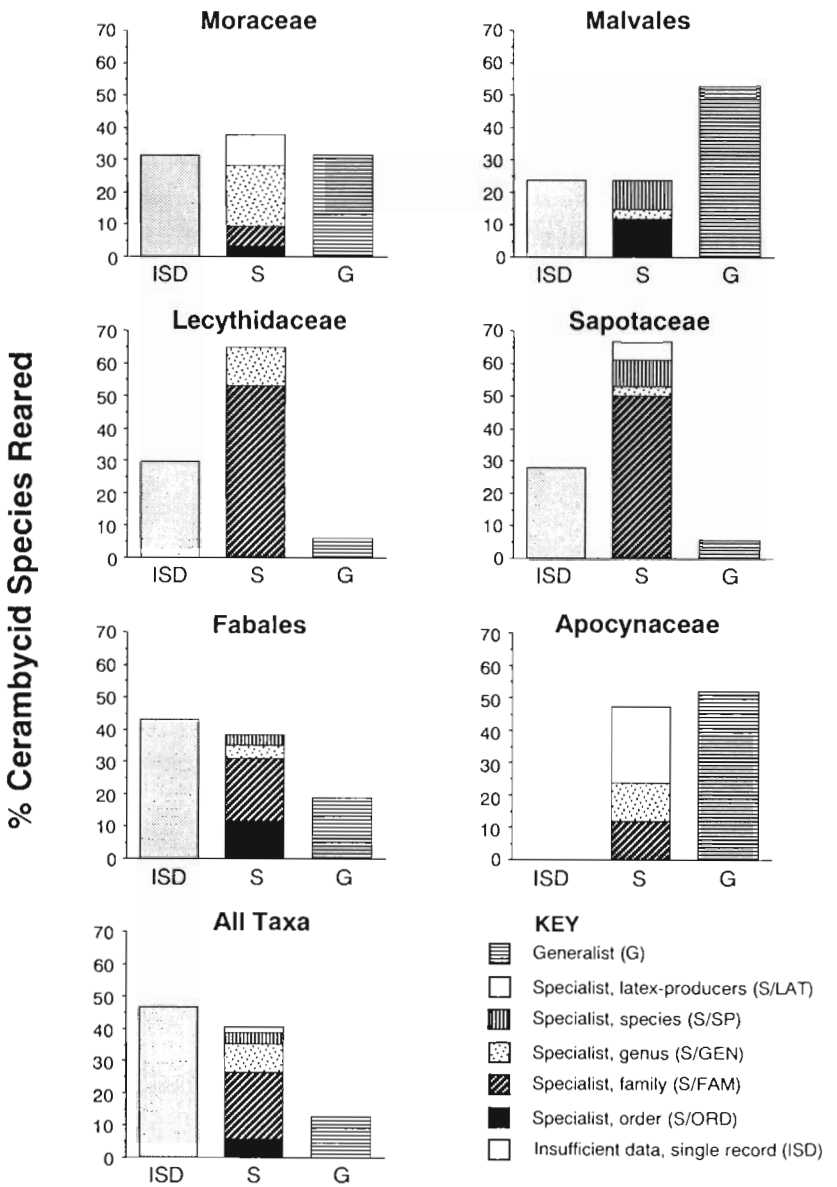

Fig. 1. Host specificity of cerambycid beetles associated with selected plant taxa in French Guiana.

species, represented by six specimens, not only is relatively common but, if the name is a clue, also may be particularly easy for the beetles to locate. Once again, the majority of the specialists belong to the tribes Acanthoderini or Acanthocinini.

We noted that *Steirastoma breve, S. melanogenys,* and *Lepturges* sp. 710 all emerged from trees belonging to both the Bombacaceae and the Sterculiaceae. There are, in addition, several

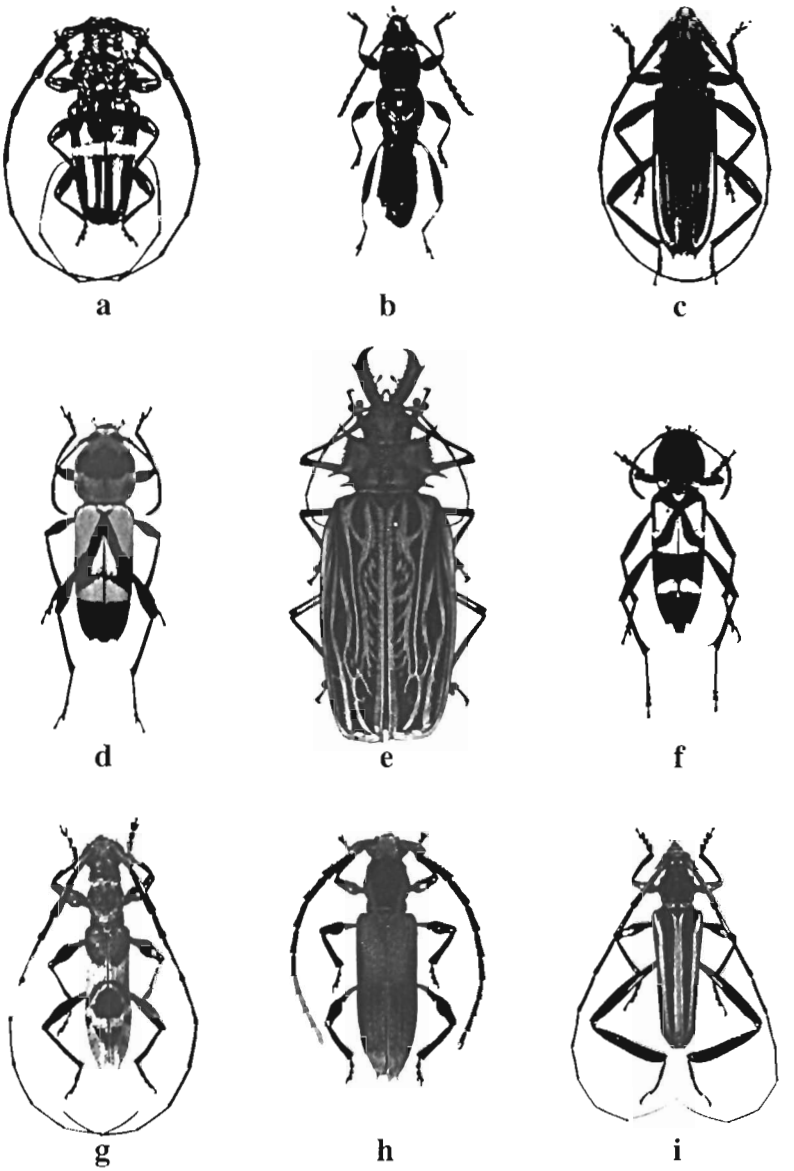

Fig. 2. Representative cerambycids reared in French Guiana. **a.** ***Trachyderes succinctus*** (Linnaeus, 1758): 10–35 mm, generalist, emerged from *Hymenaea courbaril* S&P3492, *Hymenolobium flavum* L1245, *Hevea brasiliensis* PINARD det., and *Psidium guajava* FEUILLET det. **b.** ***Tomopterus obliquus*** Bates, 1870: 7.4–8.2 mm, Sapotaceae specialist, emerged from *Ecclinusa guianensis* M23513, *Micropholis guyanensis* L1320 & M23440, *Pouteria bangii* L1314, *P. cayennensis* L1711 & L1723, *P. gonggrijpii* S1525, *P. guianensis* S1515, *P. oblanceolata* L1736, and *Pouteria* sp. M23395, M23396, M23405, M23487, M23653, M23663, M23666, and M23677. **c.** ***Chlorida festiva*** (Linnaeus, 1758): 9–35 mm, generalist, emerged from *Heterostemon* sp. M23409, *Hymenaea courbaril* S&P3492, *Diplotropis purpurea*

→

literature references (Duffy, 1960) reporting an association between *Steirastoma breve* and the Malvaceae. A fourth cerambycid species, *Oreodera undulata,* emerged from trees belonging to the Sterculiaceae and the Tiliaceae. Only Eleaocarpaceae, represented here by numerous undetermined trees belonging to the genus *Sloanea,* seemed to lack convincing evidence for a close relationship with the other families constituting the Malvales.

To our surprise, we recently learned that a two-step parsimony analysis on 125 *rbc*L sequences resulted in trees that strongly support the monophyly of the core malvalian families (Bombacaceae, Malvaceae, Sterculiaceae, and Tiliaceae), but that "Eleaocarpaceae, hypothesized by most authors as a sister group to the four core malvalean families, is shown to not fall close to these taxa" (Alverson et al., in press). It was gratifying to find the beetles and the molecules in accord!

3. Lecythidaceae

The 41 plant specimens investigated (19 spp., 4 genera) gave rise to 17 cerambycid species. Lecythidaceae was one of two plant families that not only gave rise to an unusually well-defined guild of specialists but also was conspicuously avoided by generalists. Five of the cerambycid species were represented by a single host record, although some of these longicorns are closely related to beetles that are clearly Lecythidaceae specialists. Of the remaining cerambycid species, only one was a generalist. Nine of the 11 specialist species emerged from two or more tree genera, including *Neoeutrypanus incertus, Oedopeza leucostigma, Palame* spp., *Periboeum pubescens, Xylergates elaineae,* and *Xylergatina pulchra.* All of these belong to the tribe Acanthocinini, with the exception of *P. pubescens,* which belongs to the tribe Elaphidionini in the subfamily Cerambycinae. The Lecythidaceae guild is currently the subject of a more detailed study (Berkov & Tavakilian, in prep.; Berkov et al., in prep.).

4. Sapotaceae

The 73 plant specimens investigated (at least 27 spp., 6 genera) gave rise to 36 cerambycid species. The beetle guild associated with Sapotaceae showed certain patterns reminiscent of the Lecythidaceae guild, although the species composition was totally different. The majority of cerambycids that emerged from Sapotaceae were also family-level specialists, and once again generalists were rare. Although several family-level specialists belong to the subfamily Lamiinae, the majority belong to the subfamily Cerambycinae. These include four species of *Tomopterus* (Fig. 2b), *Acorethra zischkai, Ischasia* sp. 926, and *Ommata* sp. 311 (all belong-

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S&P3493, *Hymenolobium excelsum* S1477, *Ormosia nobilis* M23611, and *Hevea guianensis* L1738 & M23418. **d.** ***Mecometopus aurantisignatus*** Zajciw, 1964: 8.5–13.5 mm, Euphorbiaceae specialist, emerged from *Glycydendron amazonicum* L1246, *Hevea brasiliensis* PINARD det., and *H. guianensis* L1738 & M23536. **e.** ***Macrodontia cervicornis*** (Linnaeus, 1758): 59–169 mm, Arecaceae, single host record, emerged from *Maximiliana maripa* de GRANVILLE det. **f.** ***Mecometopus leprieurii*** (Castelnau & Gory, 1836): 10.5–13.5 mm, Caesalpiniaceae, single host record, emerged from *Hymenaea courbaril* FOUQUET det. **g.** ***Compsibidion charile*** (Bates, 1870): 7.8–10.6 mm, Caesalpiniaceae, single host record, emerged from *Bauhinia guianensis* M23641. **h.** ***Hemilissa cornuta*** Bates, 1870: 10.6–14.8 mm, Aspidosperma (Apocynaceae) specialist, emerged from *Aspidosperma cruentum* L1682 & L1695, *A. marcgravianum* CTFT1150 & L1344, and *A. sandwithianum* L652. **i.** ***Callichroma auricomum*** (Linnaeus, 1758): 21–40 mm, Sapotaceae specialist, emerged from *Chrysophyllum sanguinolentum* M23437, *Ecclinusa guianensis* L1764 & S1475, *Manilkara bidentata* SABATIER det., *M. huberi* M23477, *Pouteria bangii* L1314, and *Pouteria* sp. L1842 & M23677.

ing to the tribe Rhinotragini), as well as *Callichroma auricomum* (Fig. 2i) and three species of *Mionochroma* (belonging to the tribe Callichromatini). In addition, *Callichroma velutinum* was reared from *Manilkara,* and three species of *Tomopterus* were associated with particular plant species. Two additional cerambycid species were associated with plant families characterized by the production of milky latex.

The tribes Rhinotragini and Callichromatini both comprise conspicuous diurnal species with flower-visiting adults. Many species belonging to Rhinotragini are brightly colored, but with reduced elytra, and mimic wasps or predatory flies. Callichromatini is composed of beautiful iridescent beetles, all of which emit a distinctive musky aroma. The Sapotaceae guild is composed largely of aposematic beetles, and the association between these longicorns and their chemically distinctive host plants certainly merits further attention.

5. Fabales

The legumes—including Caesalpiniaceae, Fabaceae, Mimosaceae, and the tribe Swartzieae (commonly treated as a member of either Caesalpiniaceae or Fabaceae, and treated as Fabaceae for the classification of host specificity in Table I)—are without doubt the most abundantly sampled plants. The 141 plant specimens (at least 73 species, 38 genera) gave rise to an astounding 123 cerambycid species. No host-utilization strategy can be proposed for the 43% of these species which were represented by a single host record. Almost 19% of the cerambycids reared were generalists. The remaining 38% of the cerambycid species were specialists.

The longicorns associated with the legumes have been the subject of additional study (Meurer-Grimes & Tavakilian, this issue). The legumes were the second plant group with a substantial number of specialists (14 out of 47) that reproduced in the trees of more than one family. In addition to these less demanding species, it has been determined that there are actually a number of different longicorn guilds, each associated with only a few plant genera.

The tribe Swartzieae has its own distinct beetle guild, including *Agaone notabilis, Cycnidolon approximatum,* and *Odontocera molorchoides.* Considering the disputed taxonomic status of the tribe Swartzieae, it is interesting to note that its longicorn guild shows some resemblance to guilds associated with both the Caesalpiniaceae and the Fabaceae. *Odontocera* sp. 1018 was regularly associated with trees belonging to the Swartzieae but also emerged from several trees belonging to the Caesalpiniaceae. Additional beetles belonging to the genus *Odontocera* emerged in abundance from trees belonging to the tribe Dipteryxeae (Fabaceae). The generalist cerambycid *Colobothea hirtipes* has a broad host range, but within the Fabales it emerged from trees belonging to the Swartzieae and the tribe Dalbergieae (Fabaceae).

Several distinct guilds can be recognized within Caesalpiniaceae and Fabaceae. Only the Mimosaceae appears to serve a more or less consistent guild of longicorns, including *Chrysoprasis moerens, Hemilissa catapotia, Thoracibidion ruficaudatum,* and *T. striatocolle.*

Legume specialists belong to a great diversity of cerambycid tribes. The subfamily Cerambycinae is represented by tribes including Eburiini, Elaphidionini, Piezocerini, Ibidionini, Rhinotragini, and Heteropsini. The subfamily Lamiinae is represented by tribes including Onciderini, Desmiphorini, Polyraphidini, Acanthoderini, Acanthocinini, and Colobotheini. There is a predictable mix of diurnal and nocturnal, cryptic and aposematic species.

6. Apocynaceae

The 26 plant specimens investigated (15 spp., 9 genera) gave rise to 17 cerambycid species. The guild was almost evenly divided between generalists and specialists, but in this case four of the specialists were cerambycids associated with various families producing milky latex, and only four longicorn species were restricted to Apocynaceae. The specialist which generated the most host records was *Hemilissa cornuta* (Fig. 2h), belonging to the tribe Piezocerini and associated with the plant genus *Aspidosperma.* Although the congener *H. opaca* was classified as a generalist, it was also most frequently associated with *Aspidosperma.*

7. Latex-Producing Plants

Three of the plant families discussed above are characterized by the production of milky latex: Moraceae, Sapotaceae, and Apocynaceae. Euphorbiaceae, another latex-producing family, was also investigated for its cerambycid fauna. An ecological study of the forest of La Fumée Mountain in central French Guiana revealed that 42.7% of the trees had a distinctive latex, resin, or sap (Mori & Boom, 1987). Given the number of specimens collected from latex-producing taxa at Sinnamary, they must also have been quite abundant at the project site.

There was a small guild of longicorns which utilized hosts from two or more of the above families. *Acrocinus longimanus* was associated most frequently with various Moraceae but was also reared from Apocynaceae. *Hylettus coenobita* was associated primarily with Moraceae but was also reared from Apocynaceae and Euphorbiaceae. *Nealcidion triangulare* had one host record from Euphorbiaceae and a second from Apocynaceae. *Nyssodrysina pulchella* emerged from Moraceae, Euphorbiaceae, and Apocynaceae. *Oreodera albata* and *O. basiradiata* emerged from both Sapotaceae and Euphorbiaceae. These beetle species were associated with no other plant families. Although the chemical constituents of the latices produced by the plants in the above families may be variable (Cronquist, 1981), they apparently provide the requisite cues to longicorns seeking oviposition sites.

Specialization on latex-producing plants does not appear to be restricted to cerambycids. Caterpillars belonging to 17 species were documented feeding on the leaves of *Manilkara chicle,* a tree belonging to the Sapotaceae which is commonly found in the Santa Rosa National Park in Costa Rica. Although this appeared to be the sole host plant of most of the caterpillars, the sphingid *Erinnyis ello* was reported to feed upon three or more latex-rich tree species (Janzen, 1988).

V. Conclusions

It has been suggested that cerambycids, as wood-boring beetles, would not be especially prone to develop host-specific relationships with plants (Bassett, 1992; Bassett et al., 1996). The longicorns investigated in this study lay their eggs in freshly fallen wood, and the longest and most vulnerable part of the life cycle is spent, as larvae, in intimate contact with host tissues. When a host-utilization strategy can be determined, specialists outnumber generalists by more than 3:1, although this ratio is very different from one plant taxon to the next. Specialists are, however, seldom associated with a single plant species; rather, they are most frequently able to locate and successfully reproduce in the wood of related species. Extreme specialism might be a more reliable strategy in temperate ecosystems, typically dominated by

fewer species represented by more individuals (Bassett, 1992, and references therein; Beaver, 1979; Hammond, 1992).

The fact that some longicorn species are associated with unrelated latex-producing plants suggests that plant chemistry plays an important role in determining the range of suitable host plants for cerambycids. Intrafamilial variability in plant chemistry also appears to have a profound influence on beetle attack. For instance, certain members of the Lecythidaceae produce putrid-smelling compounds which appear to act as oviposition deterrents to Lecythidaceae specialists. The possible influence of chemical characteristics on host specificity in longicorns is the subject of two additional studies (Berkov et al., in prep.; Meurer-Grimes & Tavakilian, this issue). Abundantly represented plant taxa are associated with cerambycid guilds composed of both related and unrelated cerambycid species, indicating that, in most cases, specialization on a particular plant group has arisen repeatedly. These guilds are sometimes extremely well defined, and on at least one occasion the beetles reared from a log provided the clues required to identify a sterile herbarium voucher! Careful analysis of the longicorn guilds could also provide useful data for taxonomic and phylogenetic studies of tropical plants at both the intra- and interfamilial levels.

This study supported the observation that when insects are sampled, relatively few insect species are abundantly represented and most insect species are quite sparsely represented (Elton, 1975). The implication is that there are many insect species that we simply haven't learned how to locate, or that many species are able to persist at what seem to be impossibly low population densities.

Forest fragments left in the wake of tropical deforestation are unlikely to retain a full complement of the species present within intact forests. Relict populations within isolated tracts of forest would face increased competition for dwindling resources. These populations, which could not be replenished via recolonization from adjacent forest, would find it difficult to rebound from periods of adverse conditions. Tropical insects with narrow host ranges would be at a particular disadvantage. Those dependent on a single host plant would face local extinction if their host was eliminated or its abundance too drastically reduced. Most tropical cerambycids do not appear to have the excessively narrow reproductive/larval feeding niches that might make them particularly vulnerable to disruption and habitat loss.

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