

A PRELIMINARY CHECKLIST OF GUATEMALA BUTTERFLIES: HESPERIIDAE (LEPIDOPTERA: HESPERIOIDEA)

GEORGE T. AUSTIN¹, CLAUDIO MENDEZ^{2,3}, AND ALAN E. LAUNER³

¹Nevada State Museum and Historical Society, 700 Twin Lakes Drive, Las Vegas, Nevada 89107, USA

²Centro de Estudios Conservacionistas, Universidad de San Carlos, Av. Reforma 0-63, Zona 10, Guatemala City, Guatemala 01010

³Center for Conservation Biology, Stanford University, Stanford, California 94305, USA

ABSTRACT.— A total of 384 species of HesperIIDae (Lepidoptera) have been recorded in the literature as occurring in Guatemala. Nearly 200 additional species occur in the adjacent countries of Belize, El Salvador, and Honduras, in the southernmost states of Mexico, or both north and south of Guatemala, and many of these will likely be recorded in the country with additional field work and continuing searches of museum collections.

KEY WORDS: Belize, biodiversity, Central America, distribution, El Salvador, Honduras, Mesoamerica, Mexico, Neotropical, systematics.

The butterfly faunas of most regions of the Neotropics are, at best, superficially known. Recent comprehensive checklists are available for few countries, Mexico (de la Maza *et al.*, 1989, 1991), Trinidad and Tobago (Barcant, 1970), Jamaica (Brown and Heineman, 1972), Hispaniola (Schwartz, 1989), and the entirety of the West Indies (Smith *et al.*, 1994). Checklists for local areas are also available (*e.g.*, Austin *et al.*, 1996; Brown and Mielke, 1967a, 1967b; de la Maza, 1975, 1976; de la Maza and Gutiérrez, 1992; de la Maza and de la Maza, 1985; Ebert, 1969; Emmel and Austin, 1990; Lamas, 1994; Lamas *et al.*, 1991; Luis and Llorente, 1990; Luis *et al.*, 1991; Meerman and Boomsma, 1993; Ross, 1975-1977; Vargas *et al.*, 1994, 1996; Robbins *et al.*, 1996; Warren *et al.*, 1998). Other lists are variously less comprehensive (*e.g.*, Brown and Mielke, 1968; DeVries *in* Janzen, 1983; Monroe *et al.*, 1967; Monroe and Miller, 1967; Ross, 1964) or consider only a portion of the butterfly fauna (de Jong, 1983; DeVries, 1987, 1997; Neild, 1996; Steinhauser, 1975). At the present state of our knowledge, it is important that such partial inventories be available to local and international researchers to form a basis for future inventories, conservation and planning decisions, mapping of biological diversity, outlining biogeographic patterns, and taxonomic studies. These lists may in turn provide the impetus for others to evaluate their data and make unpublished information available to interested parties.

Most of the published data on butterfly distributions in Guatemala are in the form of regional compilations and taxa revisions. These are often scattered in older works and various journals which may not be known or readily available, especially to biologists within the subject country. During our studies of the butterflies of northern Guatemala (Austin *et al.*, 1996), we had the occasion to see most of the literature pertaining to this country. We herein present a list of those species of HesperIIDae previously reported for Guatemala which will serve as a baseline for continuing studies of presently extant museum material and that which is still being accumulated.

METHODS

A search of the literature revealed very little specific information on the HesperIIDae of Guatemala. No species of HesperIIDae were reported by Boisduval (1870) or Gibbs (1912). The principal sources for records were Godman and Salvin (1879-1901) and Evans (1951-1955). An initial list of hesperiids in Guatemala was generated from those works and the nomenclature was updated. We then perused various other publications including those relating to faunas

of surrounding countries, and, especially, taxonomic revisions for additional records.

The following list contains only those species specifically attributed to Guatemala and omits those generally referred to as occurring throughout Central America and the like. This undoubtedly omits some widespread and common taxa recorded in Guatemala but removes ambiguities from our collation. A numbered citation keyed to the entries in the Literature Cited follows each species in our list; other pertinent annotations are included as necessary. Citation numbers are not given for authors clearly citing another included source nor for most original descriptions before Evans (1951-1955).

CHECKLIST

FAMILY HESPERIIDAE

Subfamily PYRRHOPYGINAE

- Elbella patrobas patrobas* (Hewitson, [1857]) - 10, 21, 30, 32
Elbella scylla (Ménétriés, 1855) - 4, 6, 21, 30, 32
Jemadia hospita pseudognetus (Mabille, [1879]) - 4, 10, 21, 30
Myscelus amystis hages Godman & Salvin, [1893] - 4, 12, 21, 30
Myscelus assaricus michaeli Nicolay, 1974 - 34
Myscelus belti Godman & Salvin, 1879 - 4, 12, 21, 30
Mysoria affinis (Herrich-Schäffer, 1869) - 21
Mysoria amra (Hewitson, [1871]) - 9, 21, 30
Mysoria barcastus ambigua (Mabille & Boulet, 1908) - 21, 30
Parelbella macleannani (Godman & Salvin, 1893) - 32
Pyrrhopyge chloris Evans, 1951 - 21, 30; at times referred to as
Pyrrhopyge chalybea (Scudder, 1872), or a subspecies of it
Pyrrhopyge cosyra H. Druce, 1875 - 21, 30
Pyrrhopyge jonas C. & R. Felder, 1859 - 5, 21, 30
Pyrrhopyge erythrosticta (Godman & Salvin, 1879) - 4, 21, 30
Pyrrhopyge phidias zenodorus Godman & Salvin, [1893] - 21, 30;
described from Guatemala

Subfamily HESPERIINAE

- Aides brilla* (Freeman, 1970) - 2, 4
Aides dysoni Godman, [1900] - 24
Amblyscirtes patriciae Bell, 1959 - 15; described from Guatemala, for
generic placement, see Burns (1990)
Amblyscirtes tolteca tolteca Scudder, 1872 - 2, 4
Anatrytone mella (Godman, [1900]) - 4, 18; for generic placement, see
Burns (1994b)

- Anatrytone potosiensis* (Freeman, 1969) - 18; for generic placement, see Burns (1994b)
- Ancyloxypha arene* (Edwards, [1871]) - 24, 30
- Anthoptus epictetus* (Fabricius, 1793) - 4, 24, 30
- Anthoptus insignis* (Plötz, 1882) - 4
- Atalopedes campestris* (Boisduval, 1852) - 20, 24, 30
- Callimormus juvenus* Scudder, 1872 - 4, 24, 30
- Callimormus radiola radiola* (Mabille, [1879]) - 4, 24
- Callimormus saturnus* (Herrich-Schäffer, 1869) - 4, 24, 30
- Calpodes ethlius* (Stoll, 1782) - 4, 24, 30
- Carystoides lila* Evans, 1955 - 4
- Carystus phorcus phorcus* (Cramer, 1777) - 4, 24, 30
- Choranthus vitellius* (Fabricius, 1793) - 20, 24, 30; Miller (1965b) thought that this record was probably based on mislabeled specimens
- Cobalopsis autumnata* (Plötz, 1883) - 4, 24, 30
- Conga chydrea* (Butler, 1877) - 4, 20, 24, 30
- Copaeodes aurantiaca* (Hewitson, [1868]) - 24, 30
- Copaeodes minima* (Edwards, 1870) - 24
- Corticea corticea* (Plötz, 1883) - 4, 24, 30
- Cymaenes alumna* (Butler, 1877) - 4; often referred to as a subspecies of *Cymaenes tripunctatus* (Latreille, [1824])
- Cymaenes fraus* (Godman, [1900]) - 4, 20, 24, 30
- Cymaenes odilia trebius* (Mabille, 1891) - 4, 24, 30
- Cymaenes tripunctus theogenis* (Capronnier, 1874) - 4
- Cynea anthracinus anthracinus* (Mabille, 1877) - 4, 20, 24, 30; synonym *Rhinthon epaphus* (Godman, [1900]), described from Guatemala
- Cynea cynea* (Hewitson, 1876) - 4, 24
- Damas clavus* (Herrich-Schäffer, 1869) - 4, 24
- Decinea lucifer* (Hübner, [1831]) - 4
- Decinea percusius* (Godman, [1900]) - 20, 30
- Decinea zapota* Evans, 1955 - 24; described from Guatemala
- Enosis achelous* (Plötz, 1882) - 4, 30
- Enosis angularis infuscata* (Plötz, 1882) - 30
- Eprius veleda veleda* (Godman, [1901]) - 4, 24, 30
- Euphyes antra* Evans, 1955 - 2, 4
- Euphyes chamuli* Freeman, 1969 - 36
- Euphyes peneia* (Godman, [1900]) - 4
- Eutocus facilis* (Plötz, 1884) - 4, 24, 30
- Eutychide complana* (Herrich-Schäffer, 1869) - 24, 30
- Flaccilla aecas* (Stoll, 1781) - 24
- Halotus rica* (Bell, 1942) - 24
- Hylephila phyleus phyleus* (Drury, [1773]) - 4, 24, 30
- Inglorius mediocris* Austin, 1997 - 2, 4 (as "unnamed genus/species"); described from Guatemala
- Justinia phaetusa norda* Evans, 1955 - 20, 24, 30; described from Guatemala
- Lerema accius* (Smith, 1797) - 4, 30; synonym *Lerema pattenii* Scudder, 1872, taxon described from Guatemala
- Lerema liris* Evans, 1955 - 24
- Lerema lochius* (Plötz, 1883) - 4, 24
- Lerema lumina* (Herrich-Schäffer, 1869) - 24, 30
- Lerodea eufala eufala* (Edwards, 1869) - 24, 30
- Librita librita* (Plötz, 1886) - 20, 24, 30
- Lycas argentea* (Hewitson, [1866]) - 24, 30; described from Guatemala
- Lychnuchoides saptiae* (Godman & Salvin, 1879) - 24
- Methion melas* Godman, [1900] - 20, 24, 30; described from Guatemala
- Methionopsis dolor* Evans, 1955 - 2, 4
- Methionopsis ina* (Plötz, 1882) - 4, 24, 30
- Methionopsis typhon* Godman, [1901] - 20, 24, 30; described from Guatemala
- Mnaseas bicolor bicolor* (Mabille, 1889) - 30
- Mnasicles geta* Godman, [1901] - 4, 24, 30
- Mnasilus allubitus* (Butler, 1877) - 24, 30
- Mnasitheus chrysophrys* (Mabille, 1891) - 20, 24, 30
- Mnasitheus nitra* Evans, 1955 - 2, 4
- Mnasitheus simplicissima* (Herrich-Schäffer, 1870) - 30
- Moeris striga stroma* Evans, 1955 - 4, 24, 30
- Monca telata* (Herrich-Schäffer, 1869) - 4
- Monca tyrtaeus* (Plötz, 1883) - 4, 24
- Morys compta micythus* (Godman, [1900]) - 4
- Morys geisa lyde* (Godman, [1900]) - 4, 24, 30
- Naevolus orius orius* (Mabille, 1883) - 4, 20, 24, 30
- Nastra leucone leucone* (Godman, [1900]) - 4, 20, 24, 30; described from Guatemala
- Niconiades viridis vista* Evans, 1955 - 4
- Niconiades incomptus* Austin, 1997 - 2, 4 (as "*Niconiades* sp."); described from Guatemala
- Nyctelius nyctelius nyctelius* (Latreille, [1824]) - 4, 24, 30
- Orses cynisca* (Swainson, 1821) - 24
- Oxyntes corusca* (Herrich-Schäffer, 1869) - 4
- Panoquina evadnes* (Stoll, 1781) - 20, 24, 30
- Panoquina evansi* (Freeman, 1946) - 4, 24; often referred to as a subspecies of *Panoquina fusina* (Hewitson, [1868])
- Panoquina hecebolus* (Scudder, 1872) - 4, 24
- Panoquina lucas* (Fabricius, 1793) - 4, 24; for taxonomy, see Robbins *et al.* (1996)
- Panoquina ocola* (Edwards, 1863) - 4, 24, 30
- Panoquina pauper pauper* (Mabille, 1878) - 4, 20, 24, 30
- Papias dictys* Godman, [1900] - 4, 24, 30; described from Guatemala
- Papias nigrans* (Schaus, 1913) - 24
- Papias phaeomelas* (Hübner, [1831]) - 4, 24
- Papias phainis* Godman, [1900] - 20, 24, 30
- Papias subcostulata integra* (Mabille, 1891) - 4, 24
- Parphorus decora* (Herrich-Schäffer, 1869) - 4
- Parphorus storax storax* (Mabille, 1891) - 2, 4
- Perichares philetes adela* (Hewitson, [1867]) - 4, 24, 30; *Perichares philetes dolores* (Reakirt, 1868), is sometimes reported, but is a synonym
- Phanes aletes* (Geyer, [1832]) - 4
- Phlebodes campo sifax* Evans, 1955 - 2, 4
- Poanes inimica* (Butler & Druce, 1872) - 17, 24, 30
- Poanes melane poa* (Evans, 1955) - 20, 24, 30; for generic placement, see Burns (1992a)
- Poanes niveolimbus* (Mabille, 1889) - 17, 20, 24, 30; described from Guatemala
- Poanes zabulon* (Boisduval & LeConte, [1837]) - 24, 30; synonym *Hesperia erratica* Plötz, 1883, described from Guatemala
- Polites subreticulata* (Plötz, 1883) - 20, 24, 30; for generic placement, see Burns (1994a)
- Polites vibex praeceps* (Scudder, 1872) - 4, 24, 30
- Pompeius pompeius* (Latreille, [1824]) - 4, 24, 30
- Quinta cannae* (Herrich-Schäffer, 1869) - 24, 30
- Quasimellana eulogius* (Plötz, 1883) - 4, 18, 24, 30; for generic placement, see Burns (1994b)
- Quasimellana fieldi* (Bell, 1942) - 14, 18; described from Guatemala, includes *Quasimellana montezuma* (Freeman, 1969), for generic placement, see Burns (1994b)
- Quasimellana mexicana* (Bell, 1942) - 18, 24; for generic placement, see Burns (1994b)
- Quasimellana myron* (Godman, [1900]) - 18; for generic placement, see Burns (1994b)
- Quasimellana nayana* (Bell, 1941) - 18; includes *Quasimellana tamana* (Steinhauser, 1974), for generic placement, see Burns (1994b)
- Remella duena* Evans, 1955 - 24; described from Guatemala
- Remella remus* (Fabricius, 1798) - 4, 24, 30
- Remella rita* Evans, 1955 - 24; described from Guatemala
- Remella vopiscus vopiscus* (Herrich-Schäffer, 1869) - 4
- Rhinthon osca* (Plötz, 1883) - 4, 20, 24, 30
- Saliana antoninus* (Latreille, [1824]) - 4, 24
- Saliana esperi* Evans, 1955 - 4

- Saliana fusta* Evans, 1955 - 24
Saliana longirostris (Sepp, 1848) - 24, 30
Saliana salius (Cramer, 1775) - 24, 30
Saliana triangularis (Kaye, 1814) - 24
Saturnus tiberius obscurus (Bell, 1941) - 24, 30
Styriodes zeteki (Bell, 1931) - 2, 4
Synapte malitiosa pecta Evans, 1955 - 24, 30
Synapte salenus salenus (Mabille, 1883) - 24
Synapte silius (Latreille, [1824]) - 4
Synapte syraces shiva Evans, 1955 - 20, 24, 30
Talides alternata alternata Bell, 1941 - 24
Talides sergestus (Cramer, 1775) - 24, 30
Talides sinois cantra Evans, 1955 - 24; described from Guatemala
Thargella caura caura (Plötz, 1882) - 4
Thespis dalman (Latreille, [1824]) - 4, 24, 30
Thespis macareus (Herrich-Schäffer, 1869) - 24, 30
Thoon modius (Mabille, 1889) - 20, 24, 30
Tromba xanthura (Godman, [1901]) - 4, 24
Turesis lucas (Fabricius, 1793) - 24
Vacerra bonfilius aeas (Plötz, 1882) - 4
Vehilius inca (Scudder, 1872) - 4, 24, 30
Vehilius stictomenes illudens (Mabille, 1891) - 4, 24, 30
Vertica verticalis coatepeca (Schaus, 1902) - 24
Vettius aurelius (Plötz, 1882) - 24
Vettius coryna conka Evans, 1955 - 24, 30; described from Guatemala
Vettius fantasos (Stoll, 1780) - 4, 30
Vettius lafrenaye pica (Herrich-Schäffer, 1869) - 24
Vettius marcus (Fabricius, 1787) - 24
Vettius onaca Evans, 1955 - 4, 24
Vettius tertianus (Herrich-Schäffer, 1869) - 4
Vidius perigenes (Godman, [1900]) - 4
Vinpeius tinga (Evans, 1955) - 2, 4; for generic placement, see Austin (1997)
Virga virginus (Möschler, 1883) - 4
Wallengrenia otho (Smith, 1797) - 4
Xeniades orchamus orchamus (Cramer, 1777) - 4
Zariaspes mys (Hübner, [1808]) - 4, 24, 30
Zenis jebus janka Evans, 1955 - 24, 30

Subfamily HETEROPTERINAE

- Dalla freemani* Warren, 1997 - 41; described from Guatemala
Piruna brunnea (Scudder, 1872) - 20, 24, 30; described from Guatemala
Piruna cingo sombra Evans, 1955 - 24, 28; described from Guatemala

Subfamily MEGATHYMINAE

- Agathymus indecisa* (Butler & Druce, 1872) - 24

Subfamily PYRGINAE

- Achalarus albociliatus albociliatus* (Mabille, 1877) - 4, 22, 30
Achalarus tehuacana (Draudt, [1922]) - 22, 30
Achalarus toxus (Plötz, 1882) - 4, 22, 47
Achlyodes busirus heros Ehrmann, 1909 - 4, 23, 30
Achlyodes mithridates thraso (Hübner, [1807]) - 23, 30
Achlyodes selva Evans, 1953 - 23, 30; this is probably a synonym of *Achlyodes pallida* (R. Felder, 1869)
Aethilla chiapa Freeman, 1969 - 25
Aethilla echina echina Hewitson, 1870 - 23, 30, 47
Aethilla lavochrea Butler, 1874 - 4, 23, 30
Aguna albistria leucogramma (Mabille, 1888) - 20, 31; synonym *Thymele guatemelaina* Ehrmann, 1907, described from Guatemala
Aguna asander asander (Hewitson, 1867) - 4, 5, 22, 30, 31
Aguna aurunce hypozoneus (Plötz, 1880) - 4, 5, 22, 31; for synonymy, see Austin and Mielke (1997)
Aguna claxon Evans, 1952 - 4, 5, 31
Aguna coeloides Austin & Mielke, 1997 - 5, 22, 30, 31; this species was previously reported as *Aguna coelus* (Stoll, 1781)
Aguna metophis (Latreille, [1824]) - 30, 31
Anastrus obscurus neaeris (Möschler, 1878) - 4, 23, 30
Anastrus petius peto Evans, 1953 - 23; described from Guatemala
Anastrus sempiternus sempiternus (Butler & Druce, 1872) - 4, 23, 30
Anastrus tolimus tolimus (Plötz, 1884) - 4, 23, 30
Anisochoria pedalioidina bacchus Evans, 1953 - 23, 30
Antigonus corrosus Mabille, 1878 - 4, 23, 30
Antigonus erosus (Hübner, [1812]) - 4, 23, 30
Antigonus nearchus (Latreille, [1813]) - 4, 23, 30
Arteurotia tractipennis tractipennis Butler & Druce, 1872 - 4, 23, 30
Astraptus alardus latia Evans, 1952 - 4, 22, 30
Astraptus alector hopfferi (Plötz, 1882) - 4, 22
Astraptus anaphus annetta Evans, 1952 - 4, 22, 30, 43
Astraptus bifascia (Herrich-Schäffer, 1869) - 4, 22
Astraptus brevicauda (Plötz, 1886) - 4, 22; usually identified as *Astraptus talthybius* (Mabille, 1888) (see Steinhauser, 1987)
Astraptus creteus crana Evans, 1952 - 22, 30; described from Guatemala
Astraptus egregius egregius (Butler, 1870) - 4, 22, 30
Astraptus enotrus (Stoll, 1781) - 4, 22, 30
Astraptus fulgurator azul (Reakirt, [1867]) - 4, 22, 30, 43
Astraptus janeira (Schaus, 1902) - 4; usually reported as *Astraptus aulestis* (Cramer, 1780)
Astraptus megalurus (Mabille, 1877) - 22, 30
Astraptus phalaecus (Godman & Salvin, [1893]) - 4, 22, 30
Astraptus talus (Cramer, 1777) - 4, 22
Astraptus tucuti (Williams, 1927) - 22
Atarnes sallei (C. & R. Felder, [1867]) - 4, 23, 30
Autochton bipunctatus (Gmelin, 1790) - 4
Autochton cellus (Boisduval & Le Conte, [1837]) - 16
Autochton cincta (Plötz, 1882) - 22, 30
Autochton longipennis (Plötz, 1882) - 4, 22
Autochton neis (Geyer, [1832]) - 4, 22, 30
Autochton vectilucis (Butler, [1872]) - 20, 22, 30
Autochton zarex (Hübner, [1818]) - 4, 22, 30
Bolla boliviensis (Bell, 1937) - 23, 30
Bolla brennus brennus (Godman & Salvin, [1896]) - 23
Bolla cupreiceps (Mabille, 1891) - 23, 30
Bolla cyclops (Mabille, [1877]) - 20, 23
Bolla eusebius (Plötz, 1884) - 23
Bolla evippe (Godman & Salvin, [1896]) - 20, 23, 30
Bolla orsines (Godman & Salvin, [1896]) - 23
Bolla phylo pullata (Mabille, 1878) - 4, 23, 30
Bolla saletas (Godman & Salvin, [1896]) - 20, 23, 30; described from Guatemala
Bolla subapicatus (Schaus, 1902) - 23
Bungalotis astylos (Cramer, 1780) - 4, 30
Bungalotis midas (Cramer, 1775) - 4
Cabares potrillo potrillo (Lucas, 1857) - 4, 22, 30
Calliades zeutus (Möschler, 1878) - 4
Campopleura auxo (Möschler, 1878) - 4, 23
Campopleura theramenes Mabille, 1877 - 4, 30
Carrhenes calidius Godman & Salvin, [1895] - 23, 30
Carrhenes callipetes callipetes Godman & Salvin, [1895] - 23, 30
Carrhenes canescens canescens (R. Felder, 1869) - 4, 23, 30
Carrhenes fuscescens fuscescens (Mabille, 1891) - 23, 30
Celaenorrhinus eligius eligius (Stoll, 1781) - 30
Celaenorrhinus fritzgaertneri fritzgaertneri (Bailey, 1880) - 22
Celaenorrhinus fritzgaertneri variegatus Godman & Salvin, [1894] - 22, 30; this appears to be only a form of *C. fritzgaertneri* (see Steinhauser, 1975)
Celaenorrhinus stola Evans, 1952 - 4, 22; described from Guatemala, this was shown to be a full species by Austin and Steinhauser (1996)
Cephise auginulus (Godman & Salvin, [1893]) - 4, 22, 30; described

- from Guatemala, for generic placement, see Burns (1996), formerly treated as a synonym of *Polythrix* (= *Cephise*) *procerus* (Plötz, 1881)
- Cephise guatemalaensis* (Freeman, 1977) - 4, 19, 27, 29; described from Guatemala, for generic placement, see Burns (1996)
- Chioides catillus albofasciatus* Hewitson, [1867] - 4, 22, 30; described from Guatemala
- Chioides zilpa zilpa* (Butler, 1872) - 4, 22, 30
- Chiomara asychis georgina* (Reakirt, 1868) - 23, 30
- Chiomara mithrax* (Möschler, 1878) - 4, 20, 23, 30
- Clito clito* (Fabricius, 1787) - 23
- Codatractus bryaxis bryaxis* (Hewitson, 1867) - 20, 22, 30; described from Guatemala
- Codatractus carlos carlos* Evans, 1952 - 4, 19, 22, 30
- Codatractus melon* (Godman & Salvin, [1893]) - 22, 30
- Codatractus sallyae* Warren, 1995 - 40a
- Cogia caicus caicus* Herrich-Schäffer, 1869 - 23, 30
- Cogia cajeta eluina* Godman & Salvin, [1894] - 23, 30, 46; described from Guatemala
- Cogia calchas* (Herrich-Schäffer, 1869) - 4, 23, 30
- Cogia hippalus hiska* Evans, 1953 - 23
- Cogia mala* Evans, 1953 - 4, 23; described from Guatemala
- Cycloglypha thrasibulus thrasibulus* (Fabricius, 1793) - 4, 23, 30
- Cyclosemia anastomosis* Mabilite, 1878 - 23, 30
- Cyclosemia leppa* Evans, 1953 - 2, 4
- Doberes anticus sobrinius* Godman & Salvin, [1895] - 20, 23, 30
- Drephalys dumeril* (Latrielle, [1824]) - 4
- Dyscophellus phraxanor lama* Evans, 1952 - 22; described from Guatemala
- Ebrietas anacreon anacreon* (Staudinger, 1875) - 4, 23, 30
- Ebrietas evanidus* Mabilite, 1897 - 4, 23, 30
- Ebrietas osyris* (Staudinger, 1875) - 23, 30
- Entheus matho matho* Godman & Salvin, 1879 - 22, 30; described from Guatemala
- Epargyreus aspina* Evans, 1952 - 22
- Epargyreus clavicornis tenda* Evans, 1955 - 22; described from Guatemala
- Epargyreus exadeus cruza* Evans, 1952 - 4, 22, 30
- Epargyreus socus orizaba* Scudder, 1892 - 22
- Epargyreus spina spina* Evans, 1952 - 22
- Erynnis funeralis* (Scudder & Burgess, 1870) - 15a, 20, 23, 30
- Erynnis scudderi* (Skinner, 1914) - Burns (1964) plotted two Chiapas (Mexico) localities on his distribution map, noting that the species should be found in Guatemala as well. Later, Burns (1997) gave its range as from se. Arizona to Guatemala, noting a male from Guatemala and illustrated its genitalia [19a].
- Erynnis tristis tatius* (Edwards, 1883) - 4, 15a, 23, 30; synonym *Thanaos albomarginatus* Godman & Salvin, [1899], described from Guatemala.
- Gesta gesta invisus* (Butler & Druce, 1872) - 20, 23, 30; synonym *Achlyodes gorgona* Plötz, 1884, described from Guatemala
- Gindanes brontinus brontinus* Godman & Salvin, [1895] - 4
- Gorgythion begga pyralina* (Möschler, 1876) - 4, 23, 30
- Gorgythion vox* Evans, 1953 - 4, 23; described from Guatemala
- Grais stigmaticus stigmaticus* (Mabilite, 1883) - 23
- Heliopetes alana* (Reakirt, 1868) - 4, 23, 30
- Heliopetes arsalte arsalte* (Linnaeus, 1758) - 4, 23, 30
- Heliopetes laviana laviana* (Hewitson, [1868]) - 4, 23, 30
- Heliopetes macaira macaira* (Reakirt, [1867]) - 4, 23, 30; synonym *Leucoscirtes nivea* Scudder, 1872, described from Guatemala
- Mictris crispus caerulea* (Mabilite, 1877) - 20, 23, 30
- Mylon cajus hera* Evans, 1953 - 23
- Mylon jason* (Ehrmann, 1907) - 4, 23
- Mylon lassia* (Hewitson, [1868]) - 23, 30
- Mylon menippus* (Fabricius, 1777) - 4, 23, 30
- Mylon pelopidas* (Fabricius, 1793) - 4, 23, 30
- Mylon salvia* Evans, 1953 - 23, 30
- Mylon species* (undescribed) - 3
- Narcosius colossus colossus* (Herrich-Schäffer, 1869) - 22, 39; on occasion material from Mexico was referred to the more southern taxon *Narcosius colossus granadensis* (Möschler, 1878)
- Narcosius parisi helen* (Evans, 1952) - 4, 39
- Nascus paullinae* (Sepp, 1848) - 22, 30
- Nascus phocus* (Cramer, 1777) - 22, 4, 30
- Nisoniades castolus* (Hewitson, 1878) - 4
- Nisoniades ephora* Herrich-Schäffer, 1870 - 4, 23, 30
- Nisoniades godma* Evans, 1953 - 4, 23
- Nisoniades macarius* (Herrich-Schäffer, 1870) - 30; synonym *Pellicia albangula* Herrich-Schäffer, 1870, described from Guatemala
- Nisoniades rubescens* (Möschler, 1876) - 2, 4, 23, 30
- Noctuana noctua bipuncta* (Plötz, 1884) - 13, 23, 30
- Noctuana noctua lactifera* (Butler & Druce, 1872) - 13
- Noctuana stator* (Godman & Salvin, [1899]) - 4, 23, 30
- Ocyba calathana calanus* (Godman & Salvin, [1894]) - 4, 20, 22, 30; described from Guatemala
- Onenses hyalophora* (R. Felder, 1869) - 23, 30
- Ouleus bubaris* (Godman & Salvin, [1895]) - 23, 30; described from Guatemala, at times treated as a subspecies of *O. calavius*
- Ouleus calavius* (Godman & Salvin, [1895]) - 20, 23, 30
- Ouleus panna* Evans, 1953 - 23
- Ouleus salvina* Evans, 1953 - 4, 23, 30
- Paches loxus zonula* (Mabilite, 1889) - 4, 23, 30
- Paches polla* (Mabilite, 1888) - 23, 30
- Pachyneuria licisca* (Plötz, 1882) - 4, 23, 30
- Pellicia angra angra* Evans, 1953 - 23
- Pellicia arina* Evans, 1953 - 23, 30
- Pellicia dimidiata dimidiata* Herrich-Schäffer, 1870 - 4, 23, 30
- Phanus albiapicalis* Austin, 1993 - 1
- Phanus confusus* Austin, 1993 - 1
- Phanus marshallii* Kirby, 1880 - 4, 22, 33
- Phanus rilma* Evans, 1952 - 1, 33
- Phanus vitreus* (Stoll, 1781) - 1, 22, 30, 33
- Phocides belus* Godman & Salvin, [1893] - 4
- Phocides pigmalion pigmalion* (Cramer, 1779) - 4, 8, 22, 30
- Phocides palemon lilea* (Reakirt, [1867]) - 4, 8, 22, 30; the synonyms *Dysenius cruentus* Scudder, 1872, and *Phocides albiciliata* Röber, 1925, described from Guatemala
- Phocides thermus thermus* (Mabilite, 1883) - 22
- Phocides urania urania* (Westwood, [1852]) - 8, 22, 30
- Polyctor cleta* Evans, 1953 - 4, 22, 30
- Polyctor enops* (Godman & Salvin, [1894]) - 4
- Polygonus leo histrio* Röber, 1925 - 22, 30, 45; usually reported as *Polygonus leo leo* (Gmelin, [1790]), but this name apparently applies to certain West Indian populations (e.g., Smith *et al.*, 1994)
- Polygonus manueli manueli* Bell & Comstock, 1948 - 4, 22
- Polythrix asine* (Hewitson, 1867) - 4, 22, 30
- Polythrix caunus* (Herrich-Schäffer, 1869) - 4, 22, 30
- Polythrix metallescens* (Mabilite, 1888) - 35
- Polythrix octomaculata octomaculata* (Sepp, 1848) - 4, 22, 30; synonym *Eudamus calenus* Mabilite, 1888, described from Guatemala
- Proteides mercurius mercurius* (Fabricius, 1787) - 4, 22, 30
- Pyrgus adepta* (Plötz, 1884) - 4, 23, 30
- Pyrgus oileus oileus* (Linnaeus, 1767) - 4, 23, 30, 44
- Pythonides herennius proxenus* (Godman & Salvin, [1895]) - 23, 30; described from Guatemala
- Pythonides jovianus amaryllis* Staudinger, 1875 - 20, 23, 30
- Pythonides jovianus jovianus* (Stoll, 1782) - 20, 23, 30
- Pythonides limaera pteris* (Godman & Salvin, [1895]) - 23
- Quadrus cerialis* (Stoll, 1782) - 4, 23, 30

- Quadrus contubernalis anicius* (Godman & Salvin, [1893]) - 20, 23, 30; described from Guatemala
Quadrus contubernalis contubernalis (Mabille, 1883) - 23, 30
Quadrus lugubris lugubris (R. Felder, 1869) - 4, 23, 30
Ridens allyni Freeman, 1979 - 2, 4
Ridens crison crison (Godman & Salvin, [1893]) - 22, 30, 37; described from Guatemala
Ridens fieldi Steinhauser, 1974 - 37
Sostrata bifasciata nordica Evans, 1953 - 4, 23, 30
Spathilepia clonius (Cramer, 1775) - 4, 23, 30
Staphylus ascalaphus (Staudinger, 1875) - 23, 30, 40
Staphylus azteca (Scudder, 1872) - 7, 23, 26
Staphylus lenis Steinhauser, 1989 - 2, 4
Staphylus vincula (Plötz, 1886) - 20, 23, 30; synonym *Scantilla opites* Godman & Salvin, [1896], described from Guatemala
Staphylus vulgata vulgata (Möschler, 1878) - 4, 23, 30; records of *Staphylus aurocapilla* (Staudinger, 1875), refer to this species (see Evans, 1953)
Systasea pulverulenta (R. Felder, 1869) - 20, 23, 30
Telemiades amphion fides Bell, 1949 - 23, 30
Telemiades avitus (Stoll, 1781) - 4
Telemiades delalande (Latreille, [1824]) - 23
Telemiades nicomedes nicomedes (Möschler, 1878) - 23
Theagenes albiplaga aegides (Herrich-Schäffer, 1869) - 23, 30
Thessia jalapus (Plötz, 1882) - 4, 11, 22
Timochares trifasciata trifasciata (Hewitson, [1868]) - 4, 23, 30
Typhedanus ampyx (Godman & Salvin, [1893]) - 4
Typhedanus undulatus (Hewitson, 1867) - 4, 22, 30, 42
Udranomonia kikkawai (Weeks, 1906) - 22
Udranomonia orcinus (C. & R. Felder, [1867]) - 4, 22
Urbanus albimargo albimargo (Mabille, 1875) - 4, 22, 30, 42
Urbanus belli (Hayward, 1935) - 4, 22, 38; includes records of *Urbanus alva* Evans, 1952 (see Steinhauser, 1981)
Urbanus dorantes dorantes (Stoll, 1790) - 4, 22, 30, 42
Urbanus doryssus doryssus (Swainson, 1831) - 4, 22, 30
Urbanus esmeraldus (Butler, 1877) - 4, 22, 30, 38
Urbanus esta Evans, 1952 - 22, 38
Urbanus evona Evans, 1952 - 22, 38; described from Guatemala
Urbanus procne (Plötz, 1881) - 4, 22
Urbanus prodicus Bell, 1956 - 38
Urbanus pronta Evans, 1952 - 4, 22
Urbanus pronus Evans, 1952 - 22
Urbanus proteus proteus (Linnaeus, 1758) - 4, 22, 30, 38, 42
Urbanus simplicius (Stoll, 1790) - 4, 22, 30, 42
Urbanus tanna Evans, 1952 - 4, 22
Urbanus teleus (Hübner, 1821) - 4, 22, 30, 42
Urbanus velinus (Plötz, 1880) - 38; formerly known as *Urbanus acawoios* (Williams, 1926), for synonymy see Robbins *et al.* (1996)
Urbanus viterboana (Ehrmann, 1907) - 4, 22, 38
Xenophanes tryxus (Stoll, 1780) - 4, 23, 30
Zera belti (Godman & Salvin, [1894]) - 4
Zera hyacinthinus hyacinthinus (Mabille, 1877) - 4, 23
Zera tetrastigma tetrastigma (Sepp, 1848) - 23
Zestusa levona Steinhauser, 1972 - 37
Zestusa staudingeri staudingeri (Mabille, 1888) - 20, 30; described from Guatemala
Zopyrion sandace Godman & Salvin, [1896] - 20, 23, 30

TABLE 1. Literature records of HesperIIDae from Guatemala (as number of species reported for the first time).

	Godman & Salvin (1879-1901)	Evans (1951-55)	Austin <i>et al.</i> (1966)	Others	TOTAL
Pyrropyginae	12	1	0	2	15
HesperIIDae	73	35	34	6	148
Heteropterinae	1	1	0	1	3
Megathyminae	0	1	0	0	1
Pyrginae	132	53	18	14	217
TOTALS	218	91	52	23	384

DISCUSSION

The list of 384 species specifically reported for Guatemala forms a solid foundation upon which to base future studies of the country's butterfly fauna. It is unquestionably incomplete, and we estimate that approximately 550 species of HesperIIDae will eventually be recorded in Guatemala. This estimate is based upon the number of species potentially occurring in the country (Appendix I) and the species richness known from other countries in the region. De la Maza *et al.* (1991) recorded 723 species of HesperIIDae in the relatively well-studied Mexico just to the north (and estimated perhaps as many as 800 would eventually be found); 435 species are known from Chiapas alone (de la Maza and de la Maza, 1993). Steinhauser (1975) listed 386 species in El Salvador and estimated that the country total may reach 600 species. Almost 500 species of hesperids are now known from Costa Rica (Austin, unpublished data), and this total may exceed 600. De Jong (1983) found records for 426 species in Surinam and estimated the total to perhaps approach 600 species.

Almost all of the species now known from Guatemala (94%) were recorded in three studies (Table 1). Godman and Salvin (1879-1901) documented more than half (57%) of the species known from the country. Evans (1951-1955) added nearly a quarter (24%) more, many of which were subsequently described new species unknown to Godman and Salvin (1879-1901). Finally, Austin *et al.* (1996) intensively investigated Tikal National Park and vicinity in the relatively unknown northern portion of the country and added another 52 species (14%). The latter study, which recorded 54% of the total known hesperiid fauna for Guatemala, suggests that intensive collections of hesperids in other regions of Guatemala would be profitable.

APPENDIX I. HesperIIDae of potential occurrence in Guatemala.

Nearly 200 additional species of HesperIIDae might be expected to occur in Guatemala based on known occurrence in adjacent areas or a broader distribution to both the north and south. Certainly, some of these species reach their distributional limits outside of Guatemala

and additional species not included in this list are sure to be found in Guatemala (e.g., see Austin, 1997). These speculations, however, will give at least an approximate estimate of the expected species richness of this family in Guatemala, will provide a baseline in the search of museum collections, and may provide the impetus to those with unreported species to publish or otherwise make known their findings.

The following references were consulted to derive this list: Burns (1964, 1983, 1984, 1990, 1992a, 1992b, 1994a, 1994b, 1996), Davis (1928), de la Maza and Gutiérrez (1992), de la Maza *et al.* (1991), de la Maza and de la Maza (1985, 1993), Draudt (1917-1924), Evans (1951, 1953, 1953, 1955), Freeman (1966a, 1966b, 1966c, 1967a, 1967b, 1968, 1969, 1970a, 1970b, 1973, 1976, 1977b, 1979a, 1979b, 1993), Hoffmann (1941), Meerman and Boomsma (1993), Mielke (1994), Miller (1965a, 1970, 1985), Monroe and Miller (1967), Nicolay (1974), Shuey (1989, 1993), Steinhauser (1972, 1974, 1975, 1981, 1983, 1986, 1989, 1991), and Vargas *et al.* (1996). This listing includes species known from adjacent states in Mexico (Tabasco, Campeche, Quintana Roo, Chiapas; listed only as "Mexico" if unknown or not a state bordering on Guatemala) and countries (Belize, Honduras, El Salvador) or species which occur in one of these countries and a country to the south (only the closest of the latter is listed even if the species is known from yet further south). Taxa in brackets ("[]") are doubtful, either because of apparent errors in the particular record, because they represent a commonly reported synonym, or another subspecies is known from Guatemala as reported in the checklist.

Subfamily PYRRHOPYGINAE

- [*Aspitha agenoria* (Hewitson, 1876) - Mexico (Chiapas), Colombia; the occurrence in Chiapas requires confirmation]
 [*Aspitha leander* (Boullet, 1912) - Mexico (Chiapas), Panama; the occurrence in Chiapas requires confirmation]
Azonax typhaon (Hewitson, 1877) - Mexico (Chiapas), Nicaragua
Elbella dulcinea (Plötz, 1879) - Mexico (Quintana Roo, Chiapas), Costa Rica
 [*Elbella patrobas mexicana* Mielke, 1994 - Mexico (Chiapas); another subspecies is known from Guatemala]
Myscelus pegasus perissodora Dyar, 1914 - Mexico (Chiapas), Nicaragua
Mysoria galgala (Hewitson, [1866]) - Mexico (Chiapas), Panama
Mysoria wilsoni Freeman, 1969 - Mexico (Chiapas)
 [*Oxyntera confusa* Staudinger, 1888 - the type locality reported as "Mexico", but the species is otherwise known only from South America; its status in Mexico requires confirmation (de la Maza *et al.*, 1991; de la Maza and de la Maza, 1993) and was reported as *Oxyntera semihyalina* C. & R. Felder, 1862, by Hoffmann (1941), apparently identified by misidentified figure in Felder (1867) or Seitz (1907-1924), see Evans (1951)]
 [*Oxyntera hopfferi* Staudinger, 1888 - Mexico (Chiapas), Panama; the record for Chiapas requires confirmation]
Pyrrhopyge crida (Hewitson, 1871) - Mexico (Chiapas), Nicaragua
Pyrrhopyge hoffmanni Freeman, 1977 - Mexico (Tabasco, Chiapas), Belize
Pyrrhopyge mulleri (Bell, 1934) - Mexico (Chiapas)
Pyrrhopyge tzotzili Freeman, 1969 - Mexico (Chiapas)

Subfamily HESPERIINAE

- [*Aides aegia* (Hewitson, [1866]) - Mexico; this record refers to *A. brilla* Freeman (see Freeman, 1970b)]
Aides brino (Stoll, 1781) - Honduras
Amblyscirtes near anubis (Godman, [1900]) - Mexico (Chiapas)
Amblyscirtes elissa Godman, [1900] - Mexico (Chiapas)
Amblyscirtes near phylace (W. H. Edwards, 1878) - Mexico (Chiapas)
 [*Amblyscirtes prenda* Evans, 1955 - Mexico (Chiapas); the report

- (Freeman, 1973) refers to *A. tolteca tolteca* Scudder]
 [*Anatrytone logan* (Edwards, 1863) - reported for Guatemala by Godman and Salvin (1879-1901), Evans (1955), and Draudt (1917-1924, as the synonym *Atrytone delaware* Edwards, 1863; these probably refer to either *Anatrytone mazai* or *Anatrytone potosiensis* Freeman)]
Anatrytone mazai Freeman, 1969 - Mexico (Chiapas), El Salvador
Apastus gracilis gracilis (C. & R. Felder, [1867]) - Mexico (Tabasco, Chiapas), Costa Rica
Argon argus (Möschler, 1878) - Mexico (Chiapas), Honduras, El Salvador
Artines aepitus (Geyer, [1832]) - Mexico (Chiapas), Panama; this material needs to be carefully reviewed to see if it represents *Artines rica* Steinhauser & Austin, 1993 (see Steinhauser and Austin, 1993)
Atrytonopsis ovinia (Hewitson, [1866]) - Mexico (Tabasco, Quintana Roo, Chiapas), Nicaragua; the Quintana Roo record was referred to as *Atrytonopsis* sp. (near *A. ovinia*) by de la Maza and Gutiérrez (1992), the species has also been reported as the synonymous *Atrytonopsis zaovinia* (Dyar, 1913)
 [*Callimormus corades* (C. Felder, 1862) - Mexico (Chiapas), Colombia; this may refer to *C. saturnus* (Herrich-Schäffer)]
Carystoides basoches basoches (Latreille, [1824]) - Mexico (Chiapas), Honduras
Carystoides hondura Evans, 1955 - Mexico (Chiapas), Honduras
Carystoides orbius (Godman, [1901]) - Mexico (Tabasco), Nicaragua
Carystus senex (Plötz, 1882) - Mexico (Chiapas)
Cobalopsis nero (Herrich-Schäffer, 1869) - Mexico (Tabasco), Costa Rica
 [*Cobalopsis pelora* Plötz, 1882) - Mexico (Tabasco, Campeche); it is unknown what these records by Hoffmann (1941) refer to; this taxon is a synonym of *Pelopidas conjuncta* (Herrich-Schäffer, 1869), a species known from Java (Evans, 1955)]
Cobalopsis miaba (Schaus, 1902) - El Salvador; this species was previously referred to as its synonym *Cobalopsis potaro* (Williams & Bell, 1931)
Cobalus virbius fidicula (Hewitson, 1877) - Mexico (Chiapas), Honduras
Corticea lysis (Plötz, 1883) - Mexico (Chiapas), El Salvador, Nicaragua
Cymaenes laureolus (Schaus, 1913) - Mexico, Costa Rica
 [*Cymaenes tripunctatus* (Latreille, [1824]) - records of this refer to *C. alumna* (Butler) as the genitalia of the latter were illustrated as *C. tripunctatus* by Godman and Salvin (1879-1901)]
Cynea diluta (Herrich-Schäffer, 1869) - Mexico, Honduras
Cynea irma (Möschler, 1878) - Mexico (Chiapas), El Salvador, Costa Rica
Cynea megalops (Godman, [1900]) - Mexico (Tabasco, Chiapas), El Salvador, Costa Rica
Cynea nigricola Freeman, 1969 - Mexico (Chiapas)
Decinea mustea Freeman, 1979 - Mexico (Chiapas)
Dubiella fiscella belpa Evans, 1955 - Mexico (Chiapas), Honduras
Ebusus ebusus nigrior Miller, 1985 - Mexico (Chiapas); *Ebusus ebusus ebusus* (Stoll, 1780), is known from Panama southward
Enosis immaculata immaculata (Hewitson, [1868]) - Mexico, Honduras
Euphyes ampa Evans, 1955 - Mexico, Honduras
Eutychide paria (Plötz, 1882) - Honduras
Eutychide subcordata ochus Godman, [1900] - Mexico (Chiapas), Nicaragua
Falga sciras Godman, [1901] - Mexico, Honduras
Halotus angellus (Plötz, 1886) - El Salvador; this record may represent *Halotus jonaveriorum* Burns, 1992, described from southern Mexico, see comment by Burns (1992b)
 [*Justinia justinianus* (Latreille, [1824]) - Mexico (Tabasco); this record reported by Hoffmann (1941) refers to a misidentified *Phanes aletes* (Geyer) due to an error in Godman and Salvin (1879-

- 1901) (see Evans, 1955)]
- Lerodea arabus* (W. H. Edwards, 1882) - Mexico (Chiapas), El Salvador; these have been reported as *Lerodea dysaules* Godman, [1900], this considered a subspecies of *L. arabus* by Scott (1986); both taxa were reported for Chiapas by de la Maza and de la Maza (1993).
- ["*Mellana clavus* (Erichson, 1848)" - Mexico, Panama; it is unknown what these refer to, Burns (1994b) showed that the name refers to a *Wallengrenia*]
- "*Mellana*" *gala* (Godman, [1900]) - Mexico, El Salvador; Burns (1994b) did not generically place this taxon
- "*Mellana*" *helva* (Möschler, 1876) - Mexico (Quintana Roo), Honduras; Burns (1994b) did not generically place this taxon
- Metron chrysogastra* (Butler, 1870) - Mexico (Chiapas), El Salvador, Costa Rica
- Metron fasciata* (Möschler, 1876) - Mexico (Chiapas), Honduras
- Mnasicles hicetaon* Godman, [1901] - Mexico (Chiapas), El Salvador, Paraguay
- Mnasinous patage* Godman, [1900] - Mexico (Chiapas), El Salvador, Costa Rica
- Mnasitheus cephoideus* Hayward, 1943 - Belize, Brazil
- Moeris hyagnis hyagnis* Godman, [1900] - Mexico (Chiapas), El Salvador
- Morys valerius valda* (Möschler, 1878) - Mexico (Quintana Roo, Chiapas), El Salvador, Honduras
- Mucia zygia* Plötz, 1886 - Mexico (Chiapas), El Salvador, Colombia
- Nastra neamathla* (Skinner & Williams, 1923) - Mexico (Chiapas), El Salvador, Honduras
- Neoxeniades molion* (Godman, [1901]) - Mexico (Tabasco, Chiapas), Colombia
- Neoxeniades posta* Evans, 1955 - Mexico, Peru
- Neoxeniades scipio luda* (Hewitson, 1877) - Mexico (Chiapas), El Salvador, Honduras
- Neoxeniades seron seron* (Godman, [1901]) - Honduras
- Niconiades comitana* Freeman, 1969 - Mexico (Chiapas)
- [*Niconiades merenda* (Mabille, 1878) - Mexico (Tabasco); this record in Hoffmann (1941) refers to *N. viridis vista* Evans based on a misidentified figure in Seitz (1907-1924) (see Evans, 1955)]
- Niconiades nikko* (Hayward, 1948) - Mexico (Chiapas), El Salvador, Nicaragua
- [*Niconiades xanthaphes* Hübner, [1821] - Mexico, Honduras; these records probably pertain to *N. incomptus* Austin (see Austin, 1997)]
- Onespa nubis* Steinhauser, 1974 - Mexico (Chiapas), El Salvador
- Onophas columbaria* (Herrich-Schäffer, 1870) - Mexico (Chiapas), Panama
- Orthos gabina* (Godman, [1900]) - Mexico, Costa Rica
- Panoquina fusina viola* Evans, 1955 - Honduras
- Paracarystus hypergyra* (Herrich-Schäffer, 1861) - Honduras
- Paratrytone* near *polyclea* Godman, [1900] - Mexico (Chiapas)
- Perichares deceptus deceptus* (Butler & Druce, 1872) - El Salvador, Nicaragua
- Perichares lotus* (Butler, 1870) - Mexico (Tabasco, Chiapas), El Salvador, Costa Rica
- Phemiades* sp. (near *Phemiades milvius* Mabille, 1904) - Mexico (Chiapas)
- Pheraeus* sp. (near *Pheraeus covadonga* Freeman, 1969) - Mexico (Chiapas)
- "*Poanes*" *benito* Freeman, 1979 - Mexico (Chiapas); the generic placement of this is uncertain (Burns, 1992)
- Pompeius amblyspila* (Mabille, 1897) - Mexico, Nicaragua
- Pompeius dares* (Plötz, 1883) - Mexico, Nicaragua
- Quasimellana andersoni* Burns, 1994 - Mexico (Chiapas), Costa Rica; for generic placement, see Burns (1994b)
- Quasimellana aurora* (Bell, 1942) - Mexico (Chiapas), El Salvador;
- includes synonym *Quasimellana tecla* (Steinhauser, 1974), for generic placement, see Burns (1994b)
- Quasimellana balsa* (Bell, 1942) - Mexico (Chiapas), El Salvador, Nicaragua; for generic placement, see Burns (1994b)
- Quasimellana verba* (Evans, 1955) - Mexico, Panama; for generic placement, see Burns (1994b)
- Repens reptans* Evans, 1955 - Mexico (Chiapas), El Salvador; this may be a synonym of *Stomyles florus* (Godman, [1900]), see note under "*Amblyscirtes*" *florus* in Vargas *et al.* (1996)
- [*Rhithon chiriquensis* (Mabille, 1889) - Mexico (Tabasco), Belize; this is a synonym of *R. osca* (Plötz)]
- Saliana hewitsoni* (Riley, 1926) - Mexico, Panama
- Saliana salidin salidin* Evans, 1955 - Mexico, Honduras
- Saliana severus* (Mabille, 1895) - Mexico, Nicaragua
- Synale cynaxa* (Hewitson, 1867) - Mexico (Chiapas), El Salvador, Costa Rica
- Synapte puma* Evans, 1955 - Mexico (Chiapas), Panama
- Telles arcalaus* (Stoll, 1782) - Mexico (Chiapas), El Salvador, Honduras
- Thespieus aspernatus* (Draudt, [1924]) - Mexico, El Salvador, Nicaragua
- Thespieus xarina* Hayward, 1948 - Mexico, Colombia
- Thracides phidon* (Cramer, 1779) - Mexico (Tabasco, Chiapas), El Salvador, Honduras
- Tigasis nausiphanes* (Schaus, 1913) - El Salvador, Costa Rica
- Tigasis zalates* Godman, [1900] - Mexico (Chiapas), Costa Rica
- Tirynthia conflua* (Herrich-Schäffer, 1869) - Mexico (Chiapas)
- Tirynthia* sp. - Mexico (Quintana Roo)
- Turesis tabascoensis* Freeman, 1979 - Mexico (Tabasco); this was originally reported as *Turesis theste* Godman, [1901], by Freeman (1976)
- Vacerra cervara* Steinhauser, 1974 - Mexico, El Salvador
- Vacerra eglia* (Hewitson, 1877) - Mexico (Chiapas) [*V. e. gayra* (Dyar, 1918)], Nicaragua [*V. e. eglia*]; Vargas *et al.* (1996) treated these as separate species
- Vacerra lachares* Godman, [1900] - Mexico (Chiapas), El Salvador, Costa Rica
- Vehilius vetustus vetustus* Mielke, 1968 - El Salvador, Nicaragua; see Mielke (1968) for comments on this taxon formerly referred to as *Vehilius vetulus* (Mabille, 1883)
- Vertica grandipuncta* (Mabille, 1883) - Mexico (Tabasco), British Guiana; this may or may not be a subspecies of *V. verticalis* (Schaus); the reports for Mexico may refer to *V. verticalis coatepeca* (Schaus)
- Vertica ibis* Evans, 1955 - Mexico (Tabasco), Bolivia
- Vettiis argentus* Freeman, 1969 - Mexico (Chiapas), El Salvador
- Vinius tryhana tryhana* (Kaye, 1914) - Mexico (Chiapas), British Guiana
- Virga clenchi* Miller, 1970 - Mexico (Tabasco)
- [*Wallengrenia druryi pustula* (Geyer, [1832]) - Mexico, Honduras; this apparently refers to *W. otho* (Smith)]
- Xeniades pteris* Godman, [1900] - Mexico (Chiapas), Costa Rica
- Zenis minos* (Latreille, [1824]) - Mexico (Chiapas), Honduras

Subfamily HETEROPTERINAE

- Dalla dividuum* (Dyar, 1913) - Mexico (Chiapas)
- Dalla faula* (Godman, [1900]) - Mexico, Costa Rica
- Dalla lethaea* (Schaus, 1913) - Mexico (Chiapas), Costa Rica
- Dalla nubes* Steinhauser, 1991 - Mexico (Chiapas)
- Dalla ligilla* (Hewitson, 1877) - Mexico (Chiapas), El Salvador
- Dardarina dardaris* (Hewitson, 1877) - Mexico (Chiapas), El Salvador

Subfamily MEGATHYMINAE

- Agathymus rethon* (Dyar, 1913) - Mexico (Chiapas)
- Stallingsia jacki* Stallings, Turner & Stallings, 1963 - Mexico (Chiapas)

Subfamily PYRGINAE

- Achalarus casica* (Herrich-Schäffer, 1869) - Mexico (Chiapas), El Salvador

- Achlyodes pallida* (R. Felder, 1869) - Mexico (Tabasco, Chiapas), Colombia
- [*Aguna coelus* (Stoll, 1781) - Guatemala records of this species apparently refer to *A. coeloides* (Austin & Mielke, 1997)]
- Anastrus meliboea meliboea* (Godman & Salvin, [1894]) - Mexico (Chiapas), Costa Rica
- [*Anastrus tolimus robigus* (Plötz, 1884) - Mexico, Colombia; another subspecies occurs in Guatemala]
- [*Astraptus apastus apastus* (Cramer, 1777) - Mexico (Tabasco), Nicaragua; Mexico record requires confirmation (de la Maza *et al.*, 1991)]
- [*Astraptus catemacoensis* Freeman, 1967 - Mexico (Chiapas); this taxon has been synonymized with *A. fulgurator azul* (Reakirt)]
- Astraptus chiriquensis chiriquensis* (Staudinger, 1879) - Mexico (Tabasco, Quintana Roo, Chiapas), Honduras
- [*Astraptus escalantei* Freeman, 1967 - Mexico (Chiapas); this taxon has been synonymized with *A. creteus crana* Evans]
- [*Astraptus fulgor* (Hayward, 1938) - Mexico (Campeche, Chiapas), Argentina; records for Mexico require confirmation]
- Astraptus gilberti* Freeman, 1969 - Mexico, El Salvador
- [*Autochton aunus* (Fabricius, 1781) - Belize; this is a synonym of *A. zarex* (Hübner)]
- Bolla clytius* (Godman & Salvin, [1897]) - Mexico (Chiapas), El Salvador, Honduras
- Bolla cylindus* (Godman & Salvin, [1896]) - Mexico (Chiapas), Honduras
- Bolla giselus* (Mabille, 1883) - Mexico (Quintana Roo); this is generally treated as a synonym of *Bolla tetra* (Mabille, 1878), it was considered a species by de la Maza and Gutiérrez (1992)
- Bolla salva* Steinhauser, 1974 - El Salvador
- [*Bolla tetra* (Mabille, 1878) - Mexico (Chiapas); it is unknown which of Evans' (1953) subspecies this refers to, some of which are or may be full species (see Steinhauser, 1989)]
- Bolla ziza* Evans, 1953 - Mexico (Chiapas); also reported as *Staphylus zuritus* Freeman, 1969, shown to be synonymous by Steinhauser (1989)
- Bungalotis erythus* (Cramer, 1775) - Mexico (Quintana Roo, Chiapas), Honduras
- Bungalotis milleri* Freeman, 1977 - Mexico (Chiapas)
- Bungalotis quadratus quadratus* (Sepp, 1848) - Mexico (Chiapas), El Salvador, Honduras
- [*Burca braco* (Herrich-Schäffer, 1864) - Honduras; this record is suspect as the genus is otherwise endemic to the West Indies (*e.g.*, Smith *et al.*, 1994)]
- Celaenorrhinus monartus* (Plötz, 1884) - Mexico (Chiapas), Nicaragua
- Celaenorrhinus stallingsi* Freeman, 1946 - Mexico, Costa Rica
- Cephise cephise* (Herrich-Schäffer, 1869) - Mexico (Chiapas), Honduras
- Cephise nuspesez* Burns, 1996 - Mexico(?), Costa Rica
- [*Chioides catillus albius* Evans, 1952 - Honduras; another subspecies is known from Guatemala]
- Chrysoplectrum perniciosus epicincia* (Butler & Druce, 1872) - Mexico (Chiapas), El Salvador, Nicaragua
- Clito zelotes* (Hewitson, [1873]) - Mexico, French Guiana
- Codatractus alcaeus alcaeus* (Hewitson, 1867) - Mexico (Tabasco, Chiapas), El Salvador, Honduras
- Codatractus cyda* (Godman, [1901]) - Mexico (Chiapas), Honduras
- "*Codatractus*" *hyster* (Dyar, 1916) - Mexico (Chiapas), El Salvador; this species is of uncertain generic placement (Burns, 1996)
- Codatractus uvydixa* (Dyar, 1914) - Mexico (Chiapas); for generic placement, see Burns (1996)
- Codatractus yucatanus* Freeman, 1977 - Mexico (Quintana Roo)
- [*Cogia caicus moschus* (W. H. Edwards, 1882) - Mexico (Chiapas); another subspecies is known from Guatemala]
- [*Cogia cajeta cajeta* (Herrich-Schäffer, 1869) - Mexico (Tabasco, Quintana Roo); another subspecies is known from Guatemala]
- Cycloglypha tisiias* (Godman & Salvin, [1896]) - Mexico, Costa Rica
- Diaeus lacaena varna* Evans, 1953 - Mexico (Chiapas), Costa Rica
- Drephalys oriander oria* Evans, 1952 - Mexico (Chiapas), Honduras
- Dyscophellus nicephorus* (Hewitson, 1876) - Mexico (Chiapas), Honduras
- Dyscophellus porcius* (C. & R. Felder, 1862) - Mexico (Tabasco, Quintana Roo, Chiapas)
- Dyscophellus ramon* Evans, 1952 - Mexico (Chiapas), Honduras
- Ebrietas livius* Mabille, 1897 - Mexico (Tabasco, Chiapas), Ecuador
- Ebrietas sappho* Steinhauser, 1974 - Mexico, El Salvador
- Entheus crux* Steinhauser, 1989 - Mexico (Chiapas)
- Epargyreus brodkorbi* Freeman, 1966 - Mexico (Chiapas)
- [*Epargyreus clarus* (Cramer, 1775) - Honduras; this record is in error and undoubtedly refers to another species of the genus]
- Epargyreus deleoni* Freeman, 1977 - Mexico (Quintana Roo)
- Epargyreus spinosa* Evans, 1952 - Mexico, Panama
- Epargyreus zestos* (Geyer, [1832]) - Belize, Honduras
- Epargyreus* sp. - Mexico (Quintana Roo)
- Epargyreus* sp. - Mexico (Quintana Roo)
- Ephyriades arcas philemon* (Fabricius, 1775) - Honduras
- Ephyriades brunnea brunnea* (Herrich-Schäffer, 1864) - Honduras; this record is perhaps incorrect (Smith *et al.*, 1994)
- Erynnis juvenalis clitus* (Edwards, 1882) - Mexico (Chiapas)
- Gindanes brebisson panaetius* Godman & Salvin, [1895] - Mexico (Chiapas), Nicaragua
- Helioptetes domicella domicella* (Erichson, 1848) - Mexico (Chiapas), El Salvador, Nicaragua
- [*Helioptetes ericetorum* (Boisduval, 1852) - Belize (Meerman and Boomsma, 1993, this probably refers to another species)]
- Hyalothyrsus neleus pemphigargyra* (Mabille, 1888) - Mexico (Chiapas), Honduras
- Mimia chiapaensis* Freeman, 1969 - Mexico (Chiapas); this was referred to as *Mimia phidyle* (Godman & Salvin, [1894]), by Hoffmann (1941)
- Morvina falisca lachesis* (Dyar, 1918) - Mexico (Tabasco)
- Mylon zephus zephus* (Butler, 1870) - Mexico, Colombia
- Myrinia raymundo* Freeman, 1979 - Mexico (Tabasco, Chiapas)
- Narcosius nazeraeus* Steinhauser, 1986 - Mexico (Chiapas), Belize, Honduras
- Narcosius samson* Evans, 1952 - Mexico (Chiapas), El Salvador, Honduras
- Nascus broteas* (Cramer, 1780) - Mexico (Tabasco, Chiapas), Panama
- Nascus phintias* Schaus, 1917 - Mexico (Chiapas), Panama
- Nascus solon corilla* Evans, 1952 - Mexico (Chiapas), Honduras
- Nisoniades laurentina* (Williams & Bell, 1939) - Mexico, Costa Rica
- [*Ocyba calathana calathana* (Hewitson, [1868]) - Mexico (Chiapas); recorded by Hoffmann (1941), probably a variant of *O. c. calanus* (Godman & Salvin) also recorded from Chiapas]
- Oeonus pyste* Godman, [1900] - Mexico (Chiapas)
- Ouleus cyrna* (Mabille, 1895) - Mexico (Chiapas), Costa Rica
- [*Phocides pialia* Hewitson, [1857] - listed by Draudt (1917-1924) for Guatemala and for Mexico by Hoffmann (1941); it is unknown what this refers to as *P. pialia* is known from southern Brazil and is not listed by de la Maza *et al.* (1991)]
- Polyctor polyctor* (Prittwitz, 1868) - Mexico (Quintana Roo), Nicaragua
- Polythrix auginus* (Hewitson, 1867) - Mexico (Chiapas), Nicaragua
- Polythrix kanshul* Shuey, [1991] - Mexico (Chiapas), Panama
- Polythrix mexicanus* Freeman, 1969 - Mexico (Quintana Roo, Chiapas)
- Porphyrogenes zohra zohra* (Möschler, 1878) - Honduras
- Potamanaxas unifasciata* (C. & R. Felder, [1867]) - Mexico (Chiapas), Nicaragua
- Pyrdalus corbulo cora* Evans, 1953 - Honduras
- Pyrgus albescens* Plötz, 1884 - Mexico (Chiapas)
- [*Pyrgus communis* (Grote, 1872) - Belize (Meerman and Boomsma, 1993), this probably refers to *P. adepta* (Plötz)]
- [*Pyrgus oileus orcas* (Stoll, 1780) - Mexico (Chiapas); this apparently refers to a variant of *P. o. oileus* (Linnaeus), the taxon was

- not included in a recent checklist (de la Maza *et al.*, 1991)]
Pythoniades assecla Mabille, 1883 - Mexico (Quintana Roo, Chiapas)
Pythoniades rosa Steinhauser, 1989 - Mexico (Chiapas)
Quadrus francesius Freeman, 1969 - Mexico (Chiapas)
 [*Ridens bridgmani* (Weeks, 1902) - Mexico, Ecuador; the record from Mexico given by Evans (1952) is probably *Ridens miltas* (Godman & Salvin, [1893]) (Steinhauser, 1983)]
 [*Ridens crison howarthi* Steinhauser, 1974 - El Salvador; another subspecies is recorded in Guatemala]
Ridens mephitis (Hewitson, 1876) - Mexico (Tabasco, Chiapas), Honduras, Costa Rica
 [*Ridens philia* Evans, 1952 - Mexico (Chiapas; record by Freeman (1976) apparently represents the subsequently described *R. allyni* Freeman]
Ridens toddi Steinhauser, 1974 - El Salvador
Staphylus hayhurstii (Edwards, 1870) - Belize
Staphylus imperspicua (Hayward, 1940) - Mexico, Colombia
Staphylus mazans (Reakirt, [1867]) - Mexico (Chiapas)
Staphylus perforatus (Möschler, 1878) - Mexico, Colombia
Staphylus tierra Evans, 1953 - Mexico (Quintana Roo, Chiapas), El Salvador
Staphylus veytius Freeman, 1969 - Mexico (Chiapas)
Tarsoctenus praecia (Hewitson, [1857]) - Mexico, Brazil
Telemiades antiopae antiopae (Plötz, 1882) - Mexico, Nicaragua
Telemiades choricus (Schaus, 1902) - Mexico (Tabasco, Chiapas); formerly included as a subspecies of *Grais stigmaticus* (Mabille) (see Steinhauser, 1989)
 [*Telemiades epicalus* Hübner, [1819] - Mexico (Chiapas); records for Mexico and Central America require confirmation, they may belong to another species (see Steinhauser, 1989)]
Telemiades megallus Mabille, 1888 - Mexico (Chiapas), El Salvador, Honduras; formerly considered as a subspecies of *Telemiades epicalus* Hübner, [1819]
Timochares ruptifasciatus (Plötz, 1884) - Mexico (Quintana Roo, Chiapas), Belize
Tosta gorgus (Bell, 1937) - Belize
Tosta platypterus (Mabille, 1895) - Honduras
Typhedanus salas Freeman, 1977 - Mexico (Quintana Roo, Chiapas)
Typhedanus sp. - Mexico (Quintana Roo)
 [*Urbanus dubius* Steinhauser, 1981 - Mexico (Chiapas); Mexican records may refer to some other species as the distribution was reported as Colombia and Ecuador (Steinhauser, 1981)]
 [*Urbanus esma* Evans, 1952 - Mexico, Panama; the Mexico record requires confirmation, Steinhauser (1981) did not list records north of Panama]
Urbanus viridis Freeman, 1970 - Mexico (Quintana Roo)
Venada advena (Mabille, 1889) - Mexico (Chiapas), Nicaragua
Zera hosta Evans, 1953 - Mexico (Chiapas), Costa Rica; Freeman (1966b) treated this as a species separate from *Zera phila* (Godman & Salvin, [1894])
Zera nolkeni (Mabille, 1891) - Mexico (Chiapas), Panama

ACKNOWLEDGMENTS

We thank the many persons who supplied literature, especially O. H. H. Mielke (Universidade Federal do Paraná, Curitiba, Paraná, Brazil), S. R. Steinhauser (Allyn Museum of Entomology, Sarasota, Florida, USA), J. M. Burns (Smithsonian Institution, Washington, DC, USA), and A. D. Warren (Oregon State University, Corvallis, Oregon, USA), who carefully reviewed the manuscript, corrected errors, and made additions.

LITERATURE CITED

(numbers in brackets following citations are keyed to entries in the checklist)

- Austin, G. T.**
 1993. A review of the *Phanus vitreus* group (Lepidoptera: HesperIIDae: Pyrginae). *Trop. Lepid.* (Gainesville), 4 (suppl. 2):21-36. [1]
 1997. Notes on HesperIIDae (Lepidoptera) in northern Guatemala, with descriptions of new taxa. *J. Lepid. Soc.* (Los Angeles), 51:316-332. [2]
 ms. HesperIIDae of Rondônia, Brazil: "*Antigonus*" genus group (Pyrginae), with taxonomic comments and descriptions of new species. in prep. [3]
- Austin, G. T., N. M. Haddad, C. Mendez, T. D. Sisk, D. D. Murphy, A. E. Launer, and P. R. Ehrlich**
 1996. Preliminary annotated checklist of the butterflies of Tikal National Park and vicinity, Guatemala (Lepidoptera). *Trop. Lepid.* (Gainesville), 7:21-37. [4]
- Austin, G. T., and O. H. H. Mielke**
 1997. HesperIIDae of Rondônia, Brazil: *Aguna* (Pyrginae), with a partial revision and descriptions of new taxa from Mexico, Panama and Brazil. *Revta. Bras. Zool.* (Curitiba), 14:889-965. [5]
- Austin, G. T., and S. R. Steinhauser**
 1996. HesperIIDae of central Rondônia, Brazil: *Celaenorhinus* Hübner (Lepidoptera: Pyrginae), with descriptions of three new species and taxonomic comments. *Insecta Mundi* (Gainesville), 10:25-44.
- Barcant, M.**
 1970. *Butterflies of Trinidad and Tobago*. London: Collins. 314pp.
- Bell, E. L.**
 1931. Studies in the Pyrrhopyginae, with descriptions of several new species (Lepidoptera, Rhopalocera, HesperIIDae). *J. New York Ent. Soc.* (New York), 39:417-492. [6]
 1932a. Notes on some American HesperIIDae and descriptions of new species (Lepidoptera, Rhopalocera). *Bull. Brooklyn Ent. Soc.* (Lancaster), 27:131-141. [7]
 1932b. Studies in the genus *Phocides* with descriptions of new species (Lepidoptera: HesperIIDae). *Trans. Amer. Ent. Soc.* (Philadelphia), 58:169-200. [8]
 1933a. Studies in the Pyrrhopyginae with descriptions of new species (Lepidoptera, Rhopalocera, HesperIIDae). *J. New York Ent. Soc.* (New York), 41:265-295. [9]
 1933b. Studies in the Pyrrhopyginae with descriptions of new species (Lepidoptera, Rhopalocera, HesperIIDae). *J. New York Ent. Soc.* (New York), 41:481-528. [10]
 1934a. New American HesperIIDae (Lepidoptera, Rhopalocera). *Bull. Brooklyn Ent. Soc.* (Lancaster), 29:89-95. [11]
 1934b. Studies in the Pyrrhopyginae (Lepidoptera, Rhopalocera). *J. New York Ent. Soc.* (New York), 42:393-440. [12]
 1937. New genera and species of Neotropical HesperIIDae with notes on some others. *Amer. Mus. Novit.* (New York), 914:1-17. [13]
 1942. New genera and new species of Neotropical HesperIIDae (Lepidoptera: Rhopalocera). *Amer. Mus. Novit.* (New York), 1205:1-9. [14]
 1959. Descriptions of some new species of Neotropical HesperIIDae (Lepidoptera, Rhopalocera). *Amer. Mus. Novit.* (New York), 1962:1-16. [15]
- Boisduval, J. B. A. D. de**
 1870. *Considérations sur des lépidoptères envoyés du Guatemala a M. de l'Orza*. Rennes: Oberthür et fils. 100pp.
- Brown, F. M., and B. Heineman**
 1972. *Jamaica and its Butterflies*. London: E. W. Classey. 478pp.
- Brown, K. S., Jr., and O. H. H. Mielke**
 1967a. Lepidoptera of the Central Brazil Plateau. I. Preliminary list of Rhopalocera: Introduction, Nymphalidae, Libytheidae. *J. Lepid. Soc.* (Los Angeles), 21:77-106.
 1967b. Lepidoptera of the Central Brazil Plateau. I. Preliminary list of Rhopalocera (continued): Lycaenidae, Pieridae, Papilionidae, HesperIIDae. *J. Lepid. Soc.* (Los Angeles), 21:145-168.
 1968. Lepidoptera of the Central Brazil Plateau. III. Partial list for the Belo Horizonte area, showing the character of the southeastern "blend zone". *J. Lepid. Soc.* (Los Angeles), 22:147-157.
- Burns, J. M.**

1964. Evolution in skipper butterflies of the genus *Erynnis*. *Univ. Calif. Publ. Ent.* (Berkeley), 37:1-217 1 pl. [15a]
1983. Superspecies *Atrytonopsis ovina* (*A. ovina* plus *A. edwardsi*) and the nonadaptive nature of interspecific genitalic differences (Lepidoptera: HesperIIDae). *Proc. Ent. Soc. Wash.* (Washington, D.C.), 85:335-358.
1984. Evolutionary differentiation: differentiating gold-banded skippers - *Autochton cellus* and more (Lepidoptera: HesperIIDae: Pyrginae). *Smithson. Contrib. Zool.* (Washington, D.C.), (405):1-38. [16]
1990. *Amblyscirtes*: problems with species, species groups, the limits of the genus, and genus groups beyond - a look at what is wrong with the skipper classification of Evans (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 44:11-27.
- 1992a. Genitalic recasting of *Poanes* and *Paratrytone* (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 46:1-23. [17]
- 1992b. Genitalic characterization, enlargement, and reassociation of the Neotropical hesperiine genus *Halotus* (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 46:182-194.
- 1994a. Split skippers: Mexican genus *Poanopsis* goes in the *origenes* group - and *Yvretta* forms the *rhesus* group - of *Polites* (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 48:24-45.
- 1994b. Genitalia at the generic level: *Atrytone* restricted, *Anatrytone* resurrected, new genus *Quasimellana* - and yes! we have no *Mellanas* (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 48:273-337. [18]
1996. Genitalia and the proper genus: *Codatractus* gets *mysie* and *uvydxia* - in a compact *cyda* group - as well as a *hysterectomy*, while *Cephise* gets part of *Polythrix* (HesperIIDae: Pyrginae). *J. Lepid. Soc.* (Los Angeles), 50:173-216. [19]
1997. Presidential address 1996: On the beauties, uses, variation, and handling of genitalia. *J. Lepid. Soc.* (Los Angeles), 51:1-8. [19a]
- Davis, F. L.**
1928. *Notes on the Butterflies of British Honduras*. London: Old Royalty Book Publ. 101pp.
- DeVries, P. J.**
1987. *The Butterflies of Costa Rica and their Natural History. Papilionidae, Pieridae, Nymphalidae*. Princeton: Princeton Univ. Press. 327pp.
1997. *The Butterflies of Costa Rica and their Natural History. Volume II: Riodinidae*. Princeton: Princeton Univ. Press. 288pp.
- Draudt, M.**
1917-24. Die amerikanischen Tagfalter. Lycaenidae and Grypocera. In A. Seitz, *Grossschmetterlinge der Erde. Vol. 5:744-999*. Stuttgart: Alfred Kernen. [20]
- Ebert, H.**
1969. On the frequency of butterflies in eastern Brazil, with a list of the butterfly fauna of Poços de Caldas, Minas Gerais. *J. Lepid. Soc.* (Los Angeles), 23 (Suppl. 3):1-48.
- Emmel, T. C., and G. T. Austin**
1990. The tropical rain forest butterfly fauna of Rondonia, Brazil: species diversity and conservation. *Trop. Lepid.* (Gainesville), 1:1-12.
- Evans, W. H.**
1951. *A Catalogue of the American HesperIIDae in the British Museum (Natural History). Part I: Introduction and Group A, Pyrrhopyginae*. London: British Museum (Natural History). 92pp. [21]
1952. *A Catalogue of the American HesperIIDae in the British Museum (Natural History). Part II: Pyrginae - section 1*. London: British Museum (Natural History). 178pp. [22]
1953. *A Catalogue of the American HesperIIDae in the British Museum (Natural History). Part III (groups E, F, G) Pyrginae. Section 2*. London: British Museum (Natural History). 246pp. [23]
1955. *A Catalogue of the American HesperIIDae in the British Museum (Natural History). Part IV. HesperIIDae and Megathyminae*. London: British Museum (Natural History). 499pp. [24]
- Freeman, H. A.**
1966a. New skipper records for Mexico. *J. Res. Lepid.* (Beverly Hills), 5:27-28.
1966b. Remarks on the genus *Zera* Evans in Mexico with a new record. *J. Res. Lepid.* (Beverly Hills), 5:181-184.
1966c. New HesperIIDae records for Mexico. *J. Lepid. Soc.* (Los Angeles), 20:226-228.
- 1967a. Three new species of HesperIIDae from Mexico. *J. Lepid. Soc.* (Los Angeles), 21:115-119.
1967b. New records, and notes on the status of some HesperIIDae from Mexico. *J. Res. Lepid.* (Beverly Hills), 6:59-64.
1968. New species and records of HesperIIDae from Mexico. *J. New York Ent. Soc.* (New York), 76:267-277.
1969. Records, new species, and a new genus of HesperIIDae from Mexico. *J. Lepid. Soc.* (Los Angeles), 23 (suppl. 2):1-62. [25]
1970a. Notes on the genus *Cephise* Evans, with a new record for Mexico (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 24:68-69.
1970b. A new genus and eight new species of Mexican HesperIIDae (Lepidoptera). *J. New York Ent. Soc.* (New York), 78:88-99.
1973. A review of the *Amblyscirtes* with the description of a new species from Mexico (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 27:40-57.
1976. New HesperIIDae records for Mexico. *J. Lepid. Soc.* (Los Angeles), 30:62-67.
1977a. *Staphylus azteca*, new record for the United States (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 31:62. [26]
1977b. Six new species of HesperIIDae from Mexico. *J. Lepid. Soc.* (Los Angeles), 31:89-99. [27]
1979a. Nine new species and seven new records of Mexican HesperIIDae. *Bull. Allyn Mus.* (Sarasota), 52:1-13. [28]
1979b. Review of the Mexican *Polythrix* Watson 1893 (HesperIIDae). *J. Lepid. Soc.* (Los Angeles), 33:124-128. [29]
1993. Notes on *Amblyscirtes* Scudder, with the description of two new subspecies (Insecta: Lepidoptera: HesperIIDae: HesperIIDae). *Ann. Carnegie Mus.* (Pittsburgh), 62:341-350.
- Gibbs, A. E.**
1912. Butterflies from British Honduras and Guatemala. *Proc. Ent. Soc. London* (London), 1912(2):xiv-xlviii.
- Godman, F. D., and O. Salvin**
1879-1901. *Biologia Centrali-Americana. Zoologia, Lepidoptera-Rhopalocera*. London: Taylor & Francis. 1269pp. [30]
- Hoffmann, C. C.**
1941. Catalogo sistematico y zoogeografico de los Lepidopteros Mexicanos. Segunda Parte. Hesperioidea. *Ann. Inst. Biol. Univ. Nac. Autón. México* (Mexico City), 12:237-294.
- Janzen, D. H. (ed.)**
1983. *Costa Rican Natural History*. Chicago: Univ. Chicago Pr. 816pp.
- de Jong, R.**
1983. Annotated list of the HesperIIDae (Lepidoptera) of Surinam, with descriptions of new taxa. *Tijds. Ent.* (Amsterdam), 126:233-268.
- Lamas, G.**
1994. Butterflies of the Explorer's Inn Reserve. In R. B. Foster, J. L. Carr and A. B. Forsyth (eds.), *The Tambopata-Candamo Reserved Zone of Southeastern Perú: a Biological Assessment*, 162-177. RAP Working Papers 6. 184pp.
- Lamas, G., R. K. Robbins, and D. J. Harvey**
1991. A preliminary survey of the butterfly fauna of Pakitzta, Parque Nacional del Manu, Peru, with an estimate of its species richness. *Publ. Mus. Hist. Nat. UNMSM* (Lima), 40:1-19.
- Luis, A., and J. Llorente**
1990. Mariposas en el valle de México: introducción e historia. 1. Distribución local y estacional de los Papilionoidea de la Cañada de los Dinamus Magdalena Contreras, D.F., Mexico. *Folia Ent. Mex.* (Mexico City), 78:95-198.
- Luis, A., I. Vargas, and J. Llorente**
1991. Lepidoptero fauna de Oaxaca I: Distribución y fenología de los Papilionoidea de la Sierra de Juárez. *Publ. Esp. Mus. Zool. UNAM, Mexico* (Mexico City), 3:1-199.
- de la Maza, E., J., A. White L., and R. de la Maza E**
1991. La fauna de mariposas de México. Parte II. Hesperioidea (Lepidoptera: Rhopalocera). *Revta. Soc. Mex. Lepid.* (Mexico City), 14:3-44.
- de la Maza, E., R., J. de la Maza E., and A. White Lopez**
1989. La fauna de mariposas de México. Parte I. Papilionoidea (Lepidoptera: Rhopalocera). *Revta. Soc. Mex. Lepid.* (Mexico City), 12:39-98.
- de la Maza, J., and R. G. de la Maza**
1985. La fauna de mariposas de Boca del Chajul, Chiapas, Mexico (Rhopalocera). Parte I. *Revta. Soc. Mex. Lepid.* (Mexico City), 9:23-44.

- de la Maza, R. G.**
 1975. Notas sobre los Lepidópteros de Rancho Viejo y Tepoztlán, Morelos, Mexico. Primera parte: Papilionoidea. *Revta. Soc. Mex. Lepid.* (Mexico City), 1:42-61.
 1976. Notas sobre los Lepidópteros de Rancho Viejo y Tepoztlán, Morelos, Mexico. Segunda parte: Megatímidos y Cástnidos. *Revta. Soc. Mex. Lepid.* (Mexico City), 2:15-23.
- de la Maza, R. G., and J. de la Maza**
 1993. *Mariposas de Chiapas*. México: Gobierno del Estado de Chiapas. 224pp.
- de la Maza, R. G., and D. Gutiérrez**
 1992. Rhopalóceros de Quintana Roo, su distribución, origen y evolución. *Revta. Soc. Mex. Lepid.* (Mexico City), 15:1-44.
- Meerman, J. C., and T. Boomsma**
 1993. Checklist of the butterflies of the Shipstern Nature Reserve. *Occas. Pap. Belize Nat. Hist. Soc.* (Gallon Jug), 2:37-46.
- Mielke, O. H. H.**
 1968. Lepidoptera do Planalto Central Brasileiro. V. Novas espécies de Hesperiiidae e anotações sobre outras espécies conhecidas. *Revta. Bras. Biol.* (Rio de Janeiro), 28:447-455.
 1971. Contribuição ao estudo faunístico dos Hesperiiidae Americanos - II. Distribuição geográfica das espécies de *Aguna Williams*, 1927, com descrição de uma espécie nova e um novo sinónimo. *Arq. Mus. Nac.* (Rio de Janeiro), 54:203-208. [31]
 1994. Revisão de *Elbella* Evans e gêneros afins (Lepidoptera, Hesperiiidae, Pyrrhopyginae). *Revta. Bras. Zool.* (Curitiba), 11:395-586. [32]
- Miller, L. D.**
 1965a. Systematics and zoogeography of the genus *Phanus* (Hesperiiidae). *J. Res. Lepid.* (Beverly Hills), 4:115-130. [33]
 1965b. A review of the West Indian "*Choranthus*." *J. Res. Lepid.* (Beverly Hills), 4:259-274.
 1970. Two new Mexican Hesperiiidae. *J. Lepid. Soc.* (Los Angeles), 24:120-124.
 1985. A review of the genus *Ebusus* Evans (Lepidoptera: Hesperiiidae), with the description of a new subspecies from Mexico. *Insecta Mundi* (Gainesville), 1:43-45.
- Monroe, R. S., and L. D. Miller**
 1967. Report on a collection of Hesperiiidae from Honduras. *J. Lepid. Soc.* (Los Angeles), 21:243-247.
- Monroe, R. S., G. N. Ross, and R. N. Williams**
 1967. A report on two recent collections of butterflies from Honduras. *J. Lepid. Soc.* (Los Angeles), 21:185-197.
- Neild, A. F. E.**
 1996. *The Butterflies of Venezuela. Part 1: Nymphalidae I (Limenitidinae, Apaturinae, Charaxinae). A Comprehensive Guide to the Identification of Adult Nymphalidae, Papilionidae, and Pieridae.* London: Meridian Publications. 144pp, 32pls.
- Nicolay, S. S.**
 1974. Illustrations and description of species of some Pyrrhopyginae from Panama (Hesperiiidae). *J. Res. Lepid.* (Beverly Hills), 13:181-190. [34]
- Robbins, R. K., G. Lamas, O. H. H. Mielke, D. J. Harvey, and M. M. Casagrande**
 1996. Taxonomic composition and ecological structure of the species-rich butterfly community at Pakitza, Parque Nacional del Manu, Perú. In D. E. Wilson and A. Sandoval (eds.), *Manu: the Biodiversity of Southeastern Peru*, 217-252. Washington, D.C.: Smithsonian Institution.
- Ross, G. N.**
 1964. An annotated list of butterflies collected in British Honduras in 1961. *J. Lepid. Soc.* (Los Angeles), 18:11-26.
 1975-77. An ecological study of the butterflies of the Sierra de Tuxtla in Veracruz, Mexico. *J. Res. Lepid.* (Beverly Hills), 14:103-124, 169-188, 233-252; 15:41-60, 109-128, 185-200, 225-240; 16:87-130.
- Schwartz, A.**
 1989. *The Butterflies of Hispaniola*. Gainesville, Univ. Florida Press. 580pp.
- Scott, J. A.**
 1986. *The Butterflies of North America: a Natural History and Field Guide*. Stanford: Stanford Univ. Press. 583pp.
- Seitz, A. (ed.)**
 1907-24. *Die Gross-Schmetterlinge de Erde. Die amerikanischan Tagfalter.* Vol. 5. Stuttgart: A. Kernen. 1141pp, 203pl.
- Shuey, J. A.**
 [1991]. A new *Polythrix* from Central America (Lepidoptera: Hesperiiidae). *J. Res. Lepid.* (Beverly Hills), 28:277-282. (1989) [35]
 1993. Phylogeny and biogeography of *Euphyes* Scudder (Hesperiiidae). *J. Lepid. Soc.* (Los Angeles), 47:261-278. [36]
- Smith, D. S., L. D. Miller, and J. Y. Miller**
 1994. *The Butterflies of the West Indies and South Florida*. Oxford: Oxford Univ. Pr. 264pp.
- Steinhauser, S. R.**
 1972. The genus *Zestusa* (Hesperiiidae) in El Salvador with description of a new species. *J. Lepid. Soc.* (Los Angeles), 21:128-132.
 1974. Notes on Neotropical Nymphalidae and Hesperiiidae with descriptions of new species and subspecies and a new genus. *Bull. Allyn Mus.* (Sarasota), 22:1-38. [37]
 1975. An annotated list of the Hesperiiidae of El Salvador. *Bull. Allyn Mus.* (Sarasota), 29:1-34.
 1981. A revision of the *proteus* group of the genus *Urbanus* Hubner. Lepidoptera: Hesperiiidae. *Bull. Allyn Mus.* (Sarasota), 62:1-41. [38]
 1983. Notes on *Ridens* Evans, 1952, with description of a new species from Mexico. *Bull. Allyn Mus.* (Sarasota), 79:1-7.
 1986. A review of the skippers of the *narcosius* group of species of the genus *Astrartes* Hübner (sensu Evans, 1952) and erection of a new genus. Lepidoptera: Hesperiiidae. *Bull. Allyn Mus.* (Sarasota), 104:1-43. [39]
 1987. Notes on the identity of the species-group names in the genera *Urbanus* and *Astrartes* (sensu Evans). *Bull. Allyn Mus.* (Sarasota), 111:1-16.
 1989. Taxonomic notes and descriptions of new taxa in the Neotropical Hesperiiidae. Part I. Pyrginae. *Bull. Allyn Mus.* (Sarasota), 127:1-70. [40]
 1991. Taxonomic notes and descriptions of new taxa in the Neotropical Hesperiiidae. Part II, Heteropterinae and Hesperinae, *Vinius* group. *Bull. Allyn Mus.* (Sarasota), 132:1-79.
- Steinhauser, S. R., and G. T. Austin**
 1993. New species of Hesperiiidae from Costa Rica. *Trop. Lepid.* (Gainesville), 4 (suppl. 2):12-20.
- Vargas, I., J. Llorente, and A. Luis**
 1994. Listado lepidopterofaunístico de la Sierra de Atoyac de Alvarez en el estado de Guerrero: notas acerca de su distribución local y estacional (Rhopalocera: Papilionoidea). *Folia Ent. Mex.* (Mexico City), 86: 41-178.
- Vargas, I., A. Luis, J. Llorente, and A. D. Warren**
 1996. Butterflies of the state of Jalisco, Mexico. *J. Lepid. Soc.* (Los Angeles), 50:97-138.
- Warren, A. D.**
 1995. A new species of *Codatractus* from western montane Mexico (Lepidoptera: Hesperiiidae). *Trop. Lepid.* (Gainesville), 6:21-25. [40a]
 1997. A new species of *Dalla* from Guatemala (Lepidoptera: Hesperiiidae). *Trop. Lepid.* (Gainesville), 8:35-37. [41]
- Warren, A. D., I. Vargas F., A. Luis M., and J. Llorente B.**
 1998. Butterflies of the state of Colima, Mexico. *J. Lepid. Soc.* (Los Angeles), 52:40-72.
- Williams, R. C., Jr.**
 1926. Studies in the Neotropical Hesperioidea. Paper I. *Trans. Amer. Ent. Soc.* (Philadelphia), 52:61-88. [42]
 1927. Studies in the Neotropical Hesperioidea. Paper II. *Trans. Amer. Ent. Soc.* (Philadelphia), 53:261-292. [43]
- Williams, R. C., Jr., and E. L. Bell**
 1930. Short studies in American Hesperioidea (Lepidoptera: Rhopalocera). *Trans. Amer. Ent. Soc.* (Philadelphia), 56:133-138. [44]
 1933. Studies in the American Hesperioidea (Lepidoptera). Paper I. *Trans. Amer. Ent. Soc.* (Philadelphia), 59:69-84. [45]
 1934a. Studies in the American Hesperioidea (Lepidoptera). Paper III. On the synonymy of some species. *Trans. Amer. Ent. Soc.* (Philadelphia), 60:121-132. [46]
 1934b. Studies in the American Hesperioidea (Lepidoptera). Paper IV. On the synonymy and the male genitalia of some species. *Trans. Amer. Ent. Soc.* (Philadelphia), 60:265-280. [47]