INSECTA MUNDI 0205: 1-72 2012

An annotated list of the Lepidoptera of Honduras

Jacqueline Y. Miller, Deborah L. Matthews, Andrew D. Warren
McGuire Center for Lepidoptera and Biodiversity
Florida Museum of Natural History
University of Florida
P. O. Box 112710, Gainesville, Florida 32611-2710, USA
jmiller@flmnh.ufl.edu, dlott@flmnh.ufl.edu, andy@butterfliesofamerica.com

M. Alma Solis
Systematic Entomology Laboratory, PSI, ARS, USDA
c/o National Museum of Natural History, Washington, D.C., 20560-0168, USA
Alma.Solis@ARS.USDA.GOV

Donald J. Harvey, Patricia Gentili-Poole
Department of Entomology
Smithsonian Institution, Washington, D.C., 20560-0127, USA
HARVEYD@si.edu, GENTILIP@si.edu

Robert Lehman
Museo de Mariposas y Insectos
Box 720, La Ceiba, Honduras
robertdlt42@gmail.com

Thomas C. Emmel and Charles V. Covell, Jr.
McGuire Center for Lepidoptera and Biodiversity
Florida Museum of Natural History
University of Florida
P. O. Box 112710, Gainesville, Florida 32611-2710, USA
tcemmel@flmnh.ufl.edu, ccovell@flmnh.ufl.edu

Abstract. A biodiversity inventory of the Lepidoptera of Pico Bonito National Park and vicinity, in the Department of Atlantida of northern Honduras, was initiated in 2009 to obtain baseline data. We present a revised checklist of Honduran butterfly species (updated from the initial 1967 lists), as well as the first comprehensive list of Honduran moths. Our updated list includes 550 species of Papilionoidea, 311 Hesperioidea, and 1,441 moth species.

Keywords. Mesoamerica, Neotropical, Central America, biodiversity, faunal composition, Lepidoptera, Honduras.

Introduction

A comprehensive inventory of the Lepidoptera of Honduras has been initiated by the McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, in collaboration with the Centro Zamorano de Biodiversidad, Escuela Agrícola Panamericana–Zamorano, The Lodge at Pico Bonito, and the Centro Universitario Regional del Litoral Atlantico. Together with the support of taxonomic specialists at various institutions, students, research associates, and ecotourism citizen-scientist participants, we seek to expand the knowledge and appreciation of the faunal diversity and natural history of Honduras. In addition, our objectives are to provide research and reference material for current and future studies on the phylogeny, systematics, and zoogeography of Lepidoptera. To date, our survey efforts have concentrated on the northern coast, while at the same time assembling data from literature records and museum specimens from areas throughout Honduras. The present

publication summarizes the results of the first two years of our surveys (2009-2010) in the form of an annotated list, and gives an introduction to the biodiversity, biogeography, and climate of the region. In addition, we provide a brief description of the principal study area and a general review of the history of previous biodiversity studies on Lepidoptera of Mesoamerica.

Biodiversity, Historical Geology, and Biogeography

Mesoamerica is a biodiversity hotspot that includes all tropical and subtropical ecosystems from eastern Panama north and west through Costa Rica, Nicaragua, Honduras, El Salvador, Belize, and Guatemala, in addition to portions of southern and coastal Mexico. Approximately 40% of the Mesoamerican forests are theoretically still present today but they are often highly fragmented. Although the Mesoamerican corridor does not have the breadth or the high elevations of the Andes, there are numerous metamorphic mountain chains throughout the region with peaks reaching 4000 m, in addition to a series of active volcanoes (Mittermeier et al. 1999). The intervening lowlands and valleys throughout these cordilleras have acted as corridors for animal and human migrations and dispersal over millions of years. Historical geological evidence suggests a rather wide separation of the two continents from the Cretaceous through the Oligocene and into the late Miocene (Raven and Axelrod 1974; Gose 1985; Pindell and Dewey 1982; Smith 1985; Smith and Bredin 1977; Miller and Miller 2001). It has been suggested that once the contiguous land connection was complete during the Pliocene (3 mybp) (Donnelly 1992; Iturralde-Vinent and MacPhee 1999) to 5.7 mybp (Webb 1978, 1985, 1991, 2006), an extensive faunal exchange began. The species that inhabit these areas today are relicts of the fauna and flora from both North and South America. Thus, the Mesoamerican biodiversity hotspot exhibits a unique geological and evolutionary history with a patchwork of habitats supporting some of the highest levels of biodiversity and endemism on earth.

Climate and Habitats

The Caribbean lowlands of Honduras are among the wettest sections of Central America, with 2,500-6,500 mm of annual rainfall (occurring throughout the year), consistently warm temperatures, and high humidity. Alternatively, the Pacific lowlands and interior of Honduras have pronounced wet and dry seasons, with rain shadow effects associated with various mountain ranges. The rainy season commences in May or June and extends to November, followed by a markedly severe dry season. In both the Caribbean and Pacific lowlands, the average daytime temperatures are 28-33˚C. The average temperature in the interior *Serranía* habitats (see Carr 1950) decreases with elevation and reaches highs of 30˚C during the warmest months with 25˚C during the coolest month. In montane areas, daytime temperatures range from 16-25˚C with frost occurring occasionally above 2,000 m. At higher elevations, dense pine-oak forests predominate.

Ratcliffe and Cave (2006a) reviewed the different forest types of Mesoamerica, detailing more than 20 life zones found in El Salvador, Honduras and Nicaragua alone. In Honduras, there are six general forest types based on the Holdridge System (Holdridge 1967) that vary according to climate, associated vegetation and elevation. These include the montane broadleaf forest, montane pine-oak forest, tropical dry broadleaf forest, lowland broadleaf rain forest, lowland pine forest, and mangrove forest. These forest types vary with elevation and many unique microhabitats occur throughout Honduras. The forests in the Pico Bonito area are fragmentary with a mixture of primary and secondary rainforests including montane broadleaf, lowland broadleaf and pine forests. Montane broadleaf forest is characteristic of the intermediate and higher elevations of Pico Bonito National Park, with canopy trees at 25-30 m and an upper layer comprised of *Quercus* that may reach 50 m. Buttressed trees are common with tree ferns (Cyatheaceae) common in the understory. Palms are uncommon but species of Ericaceae and Melastomataceae are abundant as well as a number of epiphytes (gesneriads, aroids, bromeliads, orchids) and mosses covering rocks and tree trunks or limbs. Lower elevations in the park are dominated by lowland broadleaf forest, with a notable transition to palms and hardwoods with Magnoliaceae more frequently encountered.

Parque Nacional Pico Bonito and La Ceiba Vicinity

Our primary field site thus far is Parque Nacional Pico Bonito**,** with boundaries extending within both Atlantida and Yoro departments. It is part of the Sierra Nombre de Dios, which runs parallel to the northern (Caribbean) coast. Located to the west of La Ceiba, this is the second largest national park in Honduras, comprised of 1,314 km^2 and named for its third highest peak (Pico Bonito, 2436 m). However, there are two higher peaks in the park within the largely unexplored core area of 500 km^2, currently off limits for hiking. The rugged terrain is rocky with dense forests, rivers, waterfalls and abundant wildlife, including various mammals, a diverse herpetofauna and a very extensive avifauna (Perlo 2006). At lower elevations, the vegetation is tropical: mainly a mixture of sub-montane broadleaf evergreen forest of low to intermediate height with the canopy trees reaching 25-30 m. In some lowland areas, the landscape is dominated by agriculture with pineapple and oil palm as principal crops. However, there are areas with lush vegetation at lower elevations of the mountains that have been preserved.

History of Biodiversity Studies on Lepidoptera in Mesoamerica

Although Linnaeus, Walker, Butler, Schaus, Druce, and others described Lepidoptera from Central America in their respective works, it is the extraordinary work of Godman and Salvin (1877, 1878a,b,c, 1879-1901, 1889) which forms the basis for the Lepidoptera known at the time with descriptions of new species and superb illustrations. In their introduction, Godman (1901) summarized the various areas collected in each country and documented the primary collecting localities and/or those associated with each major collection, as in the case of Schaus. They noted the topography and major mountain ranges in each country and provided a general idea of the height of major summits, gave information on the location of the principal forests, and also recorded locations and conditions of the plains and drier areas. It is rather interesting that their description of Honduras is very limited, mentioning that the "general aspect of the country is varied by mountains and hills radiating from the common base of the Cordilleras…From the Pacific, it presents the appearance of a great natural wall, with a lower range of mountains bristling with volcanic peaks." They state further that "the greater part of the country is well watered and extensive forests are said to exist in the interior, which, however, is but imperfectly known."

Despite the expanse of time that has passed since Godman and Salvin, our voucher-based knowledge of the Lepidoptera fauna of Honduras remains incomplete and fragmentary at best. Within the last forty years, great advances have been made in recording distributions of Lepidoptera in other Mesoamerican countries surrounding Honduras. Austin et al. (1996) produced a checklist of butterflies of the Tikal National Park area, Guatemala, and Austin et al. (1998) and Barrios et al. (2006) inventoried the Hesperiidae of Guatemala. Salinas–Gutiérrez et al. (2009) published a historical synopsis of Lepidoptera collecting in Guatemala and summarized the current knowledge of species records and analyses of the Papilionoidea based on collection records, literature, fieldwork, and databases. Other recent studies have provided extensive information on the Lepidoptera fauna of southern Mexico and the Yucatan Peninsula (Pozo et al. 2003, 2008).

For Belize, Barnes (2002) has provided numerous moth records and images, and Meerman and Boomsma (1993) produced an initial checklist of butterflies. The latter was subsequently expanded by Meerman (1999). For the past 15 years, John Shuey and colleagues have been involved in studies on the biodiversity and conservation of the butterflies of the Rio Bravo Conservation and Management Area and other regions in Belize, resulting in many new butterfly records for the country. Shuey et al. (2005) reported 85 new national records for butterflies. Distributional information for Lepidoptera in El Salvador is limited, with an annotated list of the Hesperiidae of the country (Steinhauser 1975) being the only comprehensive faunal survey. Jean-Michel Maes (Museo Entomologico, Leon) and colleagues have been completing various inventories of insects in Nicaragua over the last 15 years with recent publications on the Papilionidae (Maes 2006), Pieridae (Maes 2007), and Hesperiidae (Anderson 2007).

Many studies have been completed on the Lepidoptera of Costa Rica. Based on fieldwork throughout Costa Rica, DeVries (1983, 1987, 1997) produced two excellent illustrated volumes on butterflies,

including detailed information on the distribution, life history, ecology, behavior and diversity of Costa Rican Papilionidae, Pieridae, Nymphalidae and especially Riodinidae (DeVries et al. 1994). More recently, Chacon and Montero (2007) published an introduction to the diversity of the Costa Rican Lepidoptera fauna, with descriptions of key characters for the identification of families, both immatures and adults. Janzen and Hallwachs (2010) have continued to improve our knowledge of Costa Rican Lepidoptera through mass rearings of many species in the Area de Conservación Guanacaste, including biological notes and illustrations of larval foodplants, immatures and adults. Janzen, Hallwachs and collaborators have combined molecular techniques with traditional morphological and ecological studies to identify a number of potentially new taxa (e.g., Burns and Janzen 2001, 2005a,b; Hebert et al. 2004; Burns et al. 2007, 2008; Janzen et al. 2009).

Although the diversity of plants in Honduras is relatively well known (Molina 1975; Sutherland 1986, 1996; Davidse et al. 1994, 1995, 2009), the Lepidoptera fauna of Honduras is the least known of any Mesoamerican country. Monroe et al. (1967) published the first list of the Papilionoidea of Honduras, followed by a list of Hesperiidae by Monroe and Miller (1967). Fieldwork for these studies was restricted to areas near San Pedro Sula, from Tela along the northern coast, southeast to areas north of Tegucigalpa, with two collecting sites in the Department of Choluteca. Subsequent to these publications, there are scattered records from Honduras in revisionary studies completed by Miller (1972, 1974, 1976), Jenkins (1983, 1984, 1985a,b, 1986, 1989, 1990), Hall (1999), Willmott (2003) and many others. Hall noted Honduran records for five taxa of *Theope* Doubleday (Riodinidae). Willmott recorded 20 species of *Adelpha* Hübner (Nymphalidae) from Honduras in museum collections throughout the world; based on information derived from countries surrounding Honduras, he expected a total of 32 *Adelpha* species for the country. Warren et al. (2011) list and figure essentially all described Mesoamerican butterfly taxa, including all taxa known from Honduras, and provide images of live and pinned specimens from Honduras and surrounding countries.

Recent publications on Honduran moths have involved agricultural pests such as *Spodoptera* Guenée (Escribano et al. 2000a,b) and other members of the Noctuoidea (Gregory 1987; Sponagel and Díaz 1994; Cave 1992; Caballero et al. 1994; Ovalle and Cave 1989). Passoa worked in Honduras for a few years and produced several papers describing the hosts and immature stages for various moth taxa (Eichlin and Passoa 1983; Passoa 1982, 1983, 1985, 1991; Passoa and Habeck 1987; Passoa and Steinly 1992). Studies by Solis on the mahogany webworm (Howard and Solis 1989) and a pest of avocados (Solis and Styer 2003) have included data on immature stages of economically important Honduran Pyraloidea. Recent revisionary studies and catalogues on Pterophoridae (Gielis 2003, 2006), Pyraloidea (Munroe et al. 1995), Tortricidae (Brown 1996; Brown et al. 2005; Heppner 1995, 1996; Razowski 1986; Razowski and Becker 2007), Limacodidae (Epstein and Corrales 2004), Notodontidae (Thiaucourt 2002, 2007, 2008; J. S. Miller 2009a,b), and Arctiinae (de Toulgoët 1996, 1997) suggest that there should be additional species of those families represented in Honduras. Lehman (1971) published an initial list of the Sphingidae known from Honduras. Samayoa and Cave (2008) published an updated list for this family in Honduras, documenting 107 species. This publication increased the Honduran representation within the family by 33%, with new records represented in three subfamilies: Macroglossinae (80), Sphinginae (22), and Smerinthinae (5).

In 1996, Dr. Ronald Cave, then of Escuela Agricultura Panamerica en Zamorano (EAPZ), initiated a major project to survey all insects in the protected forests of the Pico Bonito National Park and in other areas of the Sierra Nombre de Dios. This collection has been completely databased and is deposited in the Collection of Arthropods at EAPZ. Cave subsequently collaborated with Ratcliffe on revisionary studies of Mesoamerican Scarabaeidae (Ratcliffe 2000, 2001, 2003; Ratcliffe and Cave 2002, 2006a,b, 2008). Although major progress has been made, a comprehensive voucher-based inventory of the Lepidoptera within Honduras has not been completed. Among us, author Robert Lehman has been a resident and collected in and around La Ceiba for many years. His specimens, in part at the National Museum of Natural History, Washington, DC (USNM) and in the Museo de Mariposas, La Ceiba (RLMM), together with material at EAPZ, have comprised the most complete representation of the Honduran Lepidoptera fauna to date. Both EAPZ and RLMM are strongest in macrolepidoptera holdings. The microlepidopteran fauna of Honduras has, however, remained relatively unsampled and unstudied. Even within macrolepidoptera, for butterflies there has not been an updated species list for Honduras in almost a half a century (Monroe et al. 1967, Monroe and Miller 1967).

Our knowledge of the life history, ecology, and biogeography of Honduran Lepidoptera is woefully inadequate, compared to recent publications and information currently available on websites covering adjacent countries. Given the massive deforestation occurring throughout Mesoamerica on a daily basis (Tucker et al. 2005), we urgently need to improve our knowledge of the diversity and distribution of Lepidoptera species here before we miss the opportunity, especially with regard to potential endemic and key bioindicator species. The provisional list presented below is far from complete; however, we feel this is an important first step in establishing a foundation for our continuing inventory of the Lepidoptera of Honduras.

Acronyms and Museum Codens

Along with references to the authors by initials [JYM, DLM, TCE, CVC, RL], numerous institutional and locality acronyms are used in the text and list below. Four letter museum codens are: **EAPZ** = Escuela Agricultura Panamerica in Zamorano, Honduras; **MGCL** = McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Gainesville; **USNM** = National Museum of Natural History, Washington, DC; **RLMM** = Robert Lehman's Museo de Mariposas y Insectos, La Ceiba, Honduras. The following locality acronyms are also used in the text and list: PBL = The Lodge at Pico Bonito, La Ceiba, Honduras; CURLA = reserve property of Parque Nacional Pico Bonito managed by Centro Universitario Regional del Litoral Atlantico, Honduras; ER = The Honduran Emerald Hummingbird Reserve, Rio Aguan Valley, Olanchito, Honduras; KC = The Kellogg Center at Zamorano, EAPZ; UYUCA = Uyuca biological reserve of EAPZ; CA = Parque Nacional Cerro Azul, Meambar, Honduras. Reference is likewise made to records based on type localities [TL] and species included based on type localities of their current junior synonyms [TLS].

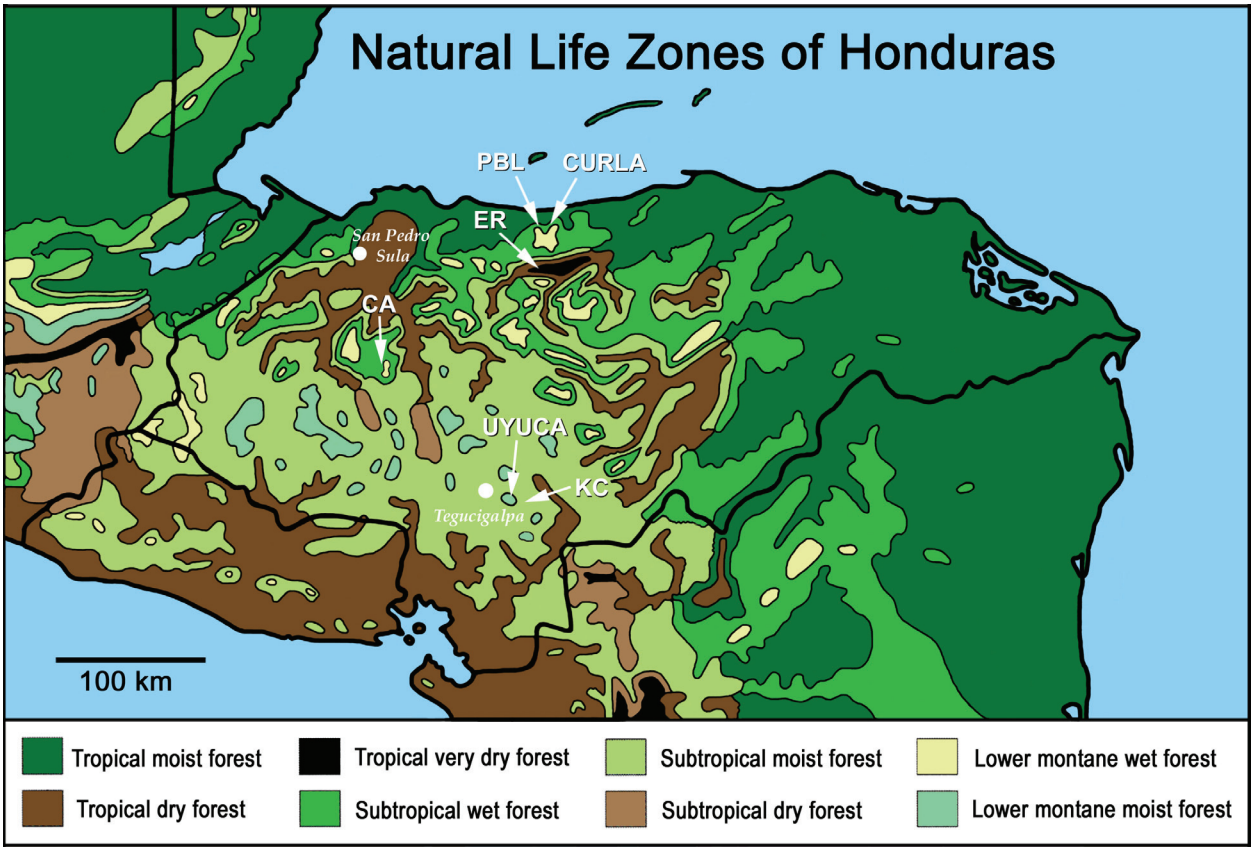
Methods

In June, 2009, a project was initiated by MGCL to survey the butterflies and moths along the northern coast of Honduras, concentrating in the area of Parque National Pico Bonito. Primary collection sites include habitats in the vicinity of the Lodge at Pico Bonito, Estación CURLA, and the Emerald Hummingbird Reserve, in the Rio Aguan Valley south of Pico Bonito (Map 1). Six trips to the area were made by MGCL staff, students, and field associates, with five trips in 2009-2010 devoted to collecting activities. Results of collecting trips are summarized in the present list by month and year. These included an initial collection based trip (23–30 June, 2009) by JYM and DLM with collections and/or species observed at the Kellogg Center of the EAPZ campus, Uyuca biological reserve of EAPZ, Parque Nacional Cerro Azul Meambar, and the Lodge at Pico Bonito. A second trip (9–16 November 2009) by JYM and DLM with two students was made to PBL and included surveys at CURLA with RL. A third trip (4–16 May 2010) by JYM and DLM with seven students/associates was made to PBL with additional collections at CURLA. Two trips were made in June (12–20 June 2010) by TCE and eight students/associates and (24–30 June 2010) by CVC and eight students/associates. The latter trip, led in conjunction with Forum Herbulot VI at MGCL, focused on the Geometridae. A subsequent trip (7–15 August 2010) by JYM and DLM and five associates included collecting at PBL, CURLA, and ER.

Our principal collecting site, PBL (N 15° 41' 48.00" W 86° 54' 04.40"), is located near the base of the mountains adjacent to Parque Nacional Pico Bonito at about 300 m (Fig 1). The property is bordered on the east and west by two rivers, Rio Corinto and Rio Coloradito, and consists of a 400 acre preserve with lowland tropical wet forest as well as coffee, cacao, banana and citrus groves. The CURLA reserve (N 15° 42' 07.00" W 86° 51' 16.00") is located to the east of PBL and includes areas of pristine primary tropical forest. In contrast, ER (N 15° 25' 44.00" W 86° 53'45.57") is located about 24 km due south of PBL in the rain shadow of the Sierra Nombre de Dios. This small reserve, part of a Honduran army military base, consists of tropical dry forest characterized by thorny scrub vegetation, unique with both cactus and orchids growing together and specialized nectar plants such as *Pedilanthus* Neck. ex. Poit. (Euphorbiaceae), which support one of the few populations of the endemic and endangered Honduran emerald hummingbird, *Amazilia luciae* (Lawrence).

Sampling methods involved hand collecting with nets as well as visual identification of easily identifiable diurnal species, bait traps containing fermenting fruit, and nightly collections at white

sheets illuminated by mercury vapor lamps or ultraviolet lights. While night collecting has thus far been at low elevations (< 500 m), collecting at PBL was especially productive with mercury vapor lights set at the top of a four-story bird observation tower in view of the Rio Coloradito and surrounding mountains. All specimens were pinned, spread, and labeled, and deposited at MGCL with voucher specimens also deposited at EAPZ and USNM. Legs have been removed from selected specimens for subsequent DNA extraction and analysis. Tissue samples are stored at the Genetic Resources Repository at the Florida Museum of Natural History.



Map 1. Natural Life Zones of Honduras (modified from Ratcliff and Cave 2006a, with permission) showing forest types and location of collection/observation sites. See text above for location acronyms.

Specimens were identified based on comparison with identified reference material at USNM, MGCL, and EAPZ, as well as types or type images, primary literature accounts included in revisionary studies, and older literature such as Cramer (1775-1782), Godman and Salvin (1879-1901), Seitz ([1907]-1924), Hampson (1898-1913, 1914, 1920), Druce (1881-1900, 1888), Walsingham (1915), and more recent works such as Lemaire (1971, 1973, 1974, 1978, 1980, 1988, 2002). Several internet websites have been especially helpful with nomenclature and in obtaining initial identifications and corroborating determinations. Some examples of these include: Warren et al. (2011), Moth Photographers Group (2011), Janzen and Hallwachs (2010), Barcode of Life Data Systems (2011), Lahousse (2011), Barnes (2002), Smithsonian Institution (2011), Nuss et al. (2003-2011), and Phillips (2001).

In addition to records resulting from recent collecting efforts, Honduran species found in primary literature and collection records of EAPZ, USNM, MCGL, and RLMM are incorporated into the present list. Examples of general literature accounts yielding numerous records and type locality references include Druce (1881-1900), Kirby (1892), Schaus (1920) and Walker (1854-1866), and some examples of works focused on particular taxa with multiple records included Davis (1964), Pitkin (1993, 1996), Poole (1987, 1989), Powell (1973), Scoble (1999) and numerous others.

Figure 1. Parque Nacional Pico Bonito, Pico Bonito Lodge and vicinity. **a)** Canopy adjacent to Rio Coloradito. **b)** Canopy vegetation. **c)** View of forested range and lowland vegetation. **d)** Rio Coloradito. Figures a-c) 28 June 2009; d) 13 November 2009.

Annotated List of Honduran Lepidoptera

The provisional species list presented in table format below is a product of our ongoing biodiversity inventory. Additional taxa are expected in future field surveys. Each taxon is annotated to indicate the source of voucher specimens, sight or collection locality records, or type localities using the acronyms and codens listed above. Taxa included without annotations are based on records found in the literature. Nomenclature and systematic arrangement for butterflies generally follow Warren et al. (2011), Pelham (2008), and/or Lamas (2004). Nomenclature and systematic arrangement for the moths generally follows or is adapted from recent revisionary works and checklists including Lafontaine and Schmidt (2010) for Noctuoidea, Watson and Goodger (1986) for Arctiinae, Scoble (1999) for Geometroidea, and the *Atlas of Neotropical Lepidoptera* series (Heppner 1984, 1995, 1996) for Pyraloidea and other groups. While we are aware of conflicting nomenclature with the ongoing systematic research of colleagues, our list includes names, subfamilial, and tribal assignments based on published works only. Collection or sight records from recent surveys are marked with an "x" for each species in columns to the right of the name according to the month and year: **1)** 06/2009, **2)** 11/2009, **3)** 05/2010, **4)** 06/2010, **5)** 08/2010. Author names are spelled out except in one case (F. M. Brown [FMB]) where it was necessary to use initials to maintain the single line format of the row. Subfamilial and tribal names are included in taxa where this facilitates the understanding of the ordering of the list.

	1	2	3	4	5
--- HEPIALOIDEA ---					
HEPIALIDAE					
Druceiella sp. PBL			x		
--- TINEOIDEA ---					
PSYCHIDAE					
Cryptothelea symmicta (Dyar, 1914)					
Cryptothelea gloverii (Packard, 1869)					
Oiketicus geyeri Berg, 1877					
Oiketicus kirbyi Guilding, 1827					
Oiketicus sp. PBL			x		
ARRHENOPHANIDAE					
Arrhenophanes perspicilla (Stoll, 1790) PBL			x	x	
ACROLOPHIDAE					
Acrolophus spp. EAPZ, PBL	x			x	x
--- GRACILLARIOIDEA ---					
GRACILLARIIDAE					
Phyllocnistis citrella Stainton, 1856 EAPZ					
--- YPONOMEUTOIDEA ---					
YPONOMEUTIDAE					
Atteva aurea (Fabricius, 1798) PBL			x		
PLUTELLIDAE					
Plutella xylostella (Linnaeus, 1758) PBL, EAPZ	x				
HELIODINIDAE					
Aetole bella Chambers, 1875					
LYONETIIDAE					
Perileucoptera coffeella (Guérin-Méneville, 1842) EAPZ					
--- GELECHIOIDEA ---					
ELACHISTIDAE					
Ethmia catapeltica Meyrick, 1924 or nr. PBL	x	x	x		x
Ethmia lichyi Powell 1973 TL					
Ethmia perpulchra Walsingham, 1912					
Ethmia scythropa Walsingham, 1912					
Ethmia similatella Busck, 1920					
Ethmia ungulatella Busck, 1914 PBL	x	x	x		x
Stenoma catenifer Walsingham, 1912 EAPZ					
Stenoma exarata (Zeller, 1854) PBL		x			
Stenoma impressellla (Busck, 1914) PBL		x			
Stenoma patens Meyrick, 1913 PBL	x	x	x	x	
GLYPHIDOCERIDAE					
Glyphidocera sp. 1 PBL	x	x			
Glyphidocera sp. 2 PBL		x			
Glyphidocera sp. 3 PBL		x			
Glyphidocera sp. 4 PBL		x			
OECOPHORIDAE					
Cerconota anonella (Sepp, 1830) EAPZ					
Antaeotricha cosmoterma (Meyrick, 1930) PBL	x	x			
Antaeotricha particularis (Zeller, 1877) PBL	x	x			
Antaeotricha spp. 1-5 PBL	x	x	x		x

COLEOPHORIDAE					
Blastobasinae					
Blastobasis sp. PBL	x	x			
COSMOPTERIGIDAE					
Pyroderces badia (Hodges, 1962) EAPZ					
Pyroderces rileyi (Walsingham, 1882) EAPZ					
GELECHIIDAE					
Keiferia lycopersicella (Walsingham, 1897) EAPZ					
Phthorimaea operculella (Zeller, 1873) EAPZ					
Sitotroga cerealella (Oliver, 1789) EAPZ					
Trichotaphe arotrosema (Walsingham, 1911) PBL		x	x		
--- ZYGAENOIDEA ---					
MEGALOPYGIDAE					
Aithorape sp. PBL		x	x	x	x
Macara nigripes (Dyar, 1909) PBL			x		
Megalopyge albicollis (Walker, 1855) PBL		x		x	x
Megalopyge lanata (Cramer, 1780) PBL			x		
Megalopyge opercularis J.E. Smith, 1797 PBL		x	x		x
Megalopyge sp. PBL					x
Mesoscia dumilla Dyar, 1913 PBL		x	x	x	x
Mesoscia pusilla (Stoll, 1782)					
Podalia contigua (Walker, 1886) PBL			x		
Podalia orsilochia (Cramer, 1775) PBL			x		
Podalia tympania (Druce, 1897) or nr. PBL		x	x		
Trosia nigropunctigera (Fletcher, 1982) PBL		x	x	x	x
LIMACODIDAE					
Acharia horrida (Dyar, 1905) PBL	x	x			x
Euclea bidiscalis Dyar, 1926 PBL		x			x
Euclea mesoamericana Epstein and Corrales, 2004, PBL					x
Euclea sp. 1 PBL			x		x
Euclea sp. 2 PBL	x	x			x
Miresa clarissa (Stoll, 1790)					
Natada cecilia Corrales and Epstein, 2000					
Natada confusa Corrales and Epstein, 2003					
Natada fusca (Druce, 1887) PBL		x	x	x	x
Parasa minima Schaus, 1892 PBL					x
Parasa joanae Epstein, 2004 PBL				x	
Parasa viridogrisea Dyar, 1898 PBL		x			x
Perola invaria (Walker, 1855) TL					
Perola sericea (Möschler, 1878) PBL		x	x		
Phobetron hipparchia (Cramer, [1777]) EAPZ					
Prolimacodes undifera (Walker, 1855) TL					
Prolimacodes triangulifera Schaus, 1896 PBL			x	x	x
Semyra finita Walker, 1855 PBL	x		x		x
Talima aurora Dyar, 1926 PBL		x			
Talima postica Dyar, 1926 PBL		x			
DALCERIDAE					
Acraga coa (Schaus, 1892) EAPZ					
Acraga sp. PBL	x				x

Dalcerides alba (Druce, 1887) PBL		x			
Dalcerides mesoa (Druce, 1887) PBL		x		x	x
Dalcerides sp. PBL			x		x
Paracraga argentea (Schaus, 1910)					
ZYGAENIDAE					
Harrisina mystica (Walker, 1854) TL					
--- COSSOIDEA ---					
COSSIDAE					
Aramos ramosa (Schaus, 1892) PBL			x	x	x
Biocellata alfarae (Schaus, 1911) PBL	x		x		
Brypoctia strigifer (Dyar, 1910) PBL			x		x
Cossula arpi Schaus, 1901 PBL			x		
Cossula tacita (Druce, 1898)					
Givira basiplaga (Schaus, 1905) PBL			x		
Givira daphne Druce, 1901 PBL			x		
Givira juturna (Schaus, 1892) PBL		x	x		
Givira modisma Schaus, 1921 PBL			x		
Inguromorpha sandelphon (Dyar, 1912) PBL			x		
Langsdorfia lunifera Dyar, 1937 PBL		x			x
Morpheis cognata (Walker, 1856) TL					
Morpheis comisteon Schaus, 1911 PBL			x		x
Morpheis pyracmon (Cramer, 1780) PBL				x	x
--- SESIOIDEA ---					
SESIIDAE					
Carmenta mimosa Eichlin and Passoa, 1983 TL					
Sophona hondurasensis Eichlin, 1986 TL					
Melittia cucurbitae Harris, 1828 EAPZ					
CASTNIIDAE					
Castniinae					
Telchin atymnius futilis (Walker, 1856) PBL, EAPZ, CURLA	x			x	x
Amauta cacica procera (Boisduval, [1875]) RLMM, EAPZ					
Athis i. inca (Walker, 1854) EAPZ					
Athis clitarcha (Westwood, 1877) EAPZ, RLMM					
Divana d. diva (Butler, [1870]) PBL, RLMM			x		
Telchin licus (Drury, 1773) RLMM, EAPZ					
--- CHOREUTOIDEA ---					
CHOREUTIDAE					
Brenthia sp. PBL					x
Hemerophila tristis (Felder and Rogenhoffer, 1875) or nr. PBL			x		
Tortyra sp. PBL				x	
--- TORTRICOIDEA ---					
TORTRICIDAE					
Mictopsichia cubae Razowski, 2009 PBL, CURLA	x	x			
Aethesoides hondurasica Razowski, 1986 TL					
Amorbia productana (Walker, 1863) TL					
Cydia semicirculana (Walker, 1863) TL					
Eugnosta emarcida (Razowski and Becker 1986) TL					
Eugnosta fraudulenta Razowski and Becker 2007					
Icteralaria idiochroma J.W. Brown, 1996					

Mimeugnosta particeps Razowski, 1986 TL					
Platynota rostrana (Walker, 1863)					
Rhyacionia frustrana (Comstock, 1880)					
Sparganothina anopla B. Landry, 2001 TL					
Pseudatteria volcanica (Butler, 1872) CURLA				x	
--- ALUCITOIDEA ---					
ALUCITIDAE					
Alucita sp. PBL	x	x	x	x	
--- PTEROPHOROIDEA ---					
PTEROPHORIDAE					
Ochyrotica sp. PBL					x
Leptodeuterocopus sp. PBL					x
Anstenoptilia marmarodactyla (Dyar, [1903])					
Stenoptilodes brevipennis (Zeller, 1874) PBL, EAPZ	x				x
Amblyptilia landryi Gielis, 2006 TL					
Lioptilodes albistriolatus (Zeller, 1877) EAPZ					
Michaelophorus dentiger (Meyrick, 1916)					
Michaelophorus nubilus (Felder and Rogenhoffer, 1875) PBL	x	x	x		x
Sphenarches anisodactylus (Walker, 1864) PBL					x
Megalorhipida dulcis (Walsingham, 1915)					
Megalorhipida leucodactylus (Fabricius, 1794)					
Hellinsia sp. 1 UYUCA	x				
Hellinsia sp. 2 PBL			x		x
Hellinsia sp. 3 PBL			x		x
Adaina beckeri Gielis, 1992 PBL		x			
Adaina ipomoeae Bigot and Etienne, 2009 PBL					x
Adaina simplicius (Grossbeck, 1917) PBL			x		
--- HYBLAEOIDEA ---					
HYBLAEIDAE					
Hyblaea puera (Cramer, 1777)					
--- PYRALOIDEA ---					
CRAMBIDAE					
Crambinae					
Microcausta sp. PBL		x			
Argyria centrifugens Dyar, 1914 PBL	x	x	x		
Argyria sp. KC, EAPZ	x				
Myelobia smerintha Hübner, [1821] PBL		x			
Fissicrambus minuellus (Walker, 1863) TL					
Tortriculladia sp. PBL	x	x	x		
Tortriculladia eucosmella (Dyar, 1914) PBL					
Microcrambus pusionellus (Zeller, 1863) PBL		x			
Microcrambus tactellus (Dyar, 1914) PBL		x			
Microcramboides meretricellus (Schaus, 1913) PBL	x				x
Diatraea lineolata (Walker, 1856) EAPZ					
Diatraea saccharalis (Fabricius, 1794) EAPZ, TLS					
Parapediasia tenuistrigata (Zeller, 1881) PBL	x	x			
Schoenobiinae					
Proschoenobius subcervinellus (Walker, 1863) TL					
Rupela albina Becker and Solis, 1990 EAPZ					

Glaphyriinae					
Hellula phidilealis (Walker, 1859) EAPZ					
Aethiophysa dimotalis (Walker, [1866]) TL					
Cosmopterosis spatha Solis, 2009 PBL	x		x		
Lipocosma calla (Kaye, 1901) PBL					x
Pseudoligostigma enareralis (Dyar, 1914) PBL		x			
Dicymolomia metalophota (Hampson, 1897) PBL	x				
Schacontia ysticalis (Dyar, 1925) PBL	x				
Musotiminae					
Neurophyseta camptogrammalis Hampson, 1912 PBL			x		
Undulambia polystichalis Capps, 1965 PBL					x
Midilinae					
Midila centralis Munroe, 1970 PBL		x	x		
Midila d. daphne (Druce, 1895) PBL					x
Dismidila drepanoides Monroe, 1970 PBL		x			
Dismidila atoca Dyar, 1914 PBL	x	x			
Dismidila sp. PBL					x
Acentropinae					
Aulacodes aechmialis Guenée, 1854 KC	x				
Aulacodes sp. 1 PBL					x
Aulacodes sp. 2 PBL			x		x
Parapoynx endoralis (Walker, 1859) TL					
Chrysendeton romanalis (Druce, 1896) PBL		x			
Argyractoides nr. *lucianalis* (Schaus, 1924) PBL		x	x		
Argyractoides leucogonialis (Hampson, 1906) or nr. PBL			x		x
Argyractoides sp. PBL		x	x		x
Neargyractis sp. PBL		x	x		x
Usingeriessa onyxalis (Hampson, 1897) PBL					x
Petrophila mignonalis (Dyar, 1914) PBL	x	x	x		x
Petrophila iolepta (Dyar, 1914) PBL		x			
Petrophila argyrolepta (Dyar, 1914) PBL	x	x	x		x
Petrophila zelota (Dyar, 1914) PBL		x	x		
Petrophila parvissimalis (Schaus, 1912) PBL	x		x		x
Petrophila spp. 1-8 PBL	x	x	x		x
Oxyelophila puralis (Schaus, 1912) PBL		x	x		
Oxyelophila necomalis (Dyar, 1914) PBL		x	x		x
Oxyelophila sp. PBL	x		x		
Odontiinae					
Dicepolia rufitinctalis (Hampson, 1899) PBL			x		
Evergestinae					
Symphysa sp. PBL				x	x
Trischistognatha pyrenealis (Walker, 1859) PBL			x		x
Pyraustinae					
Munroeodes thalesalis (Walker, 1859) TL					
Epicorsia alvilalis Amsel, 1954 PBL		x			
Epicorsia sp. PBL			x		x
Oenobotys vinotinctalis (Hampson, 1895) PBL			x		x
Triuncidia ossealis (Hampson, 1899) PBL	x				
Anania inclusalis (Walker, [1866]) TL					

Aponia minnithalis (Druce, 1895) PBL					x
Pyrausta insignitalis (Guenée, 1854) TLS					
Pyrausta bicoloralis (Guenée, 1854) PBL			x		
Hyalorista limasalis (Walker, 1886) TL					
Hyalorista taeniolalis (Guenée, 1854) PBL			x		
Portentomorpha xanthialis (Guenée, 1854) PBL		x			
Spilomelinae					
Phaedropsis chromalis (Guenée, 1854) PBL		x			
Phaedropsis maritzalis (Schaus, 1920) PBL		x	x		x
Lygropia acastalis (Walker, 1859) TL					
Lypotigris reginalis (Cramer, 1781) PBL				x	
Microthyris anormalis (Guenée, 1854) PBL		x			
Microthyris prolongalis (Guenée, 1854) PBL			x		
Pantographa expansalis (Lederer, 1863) PBL			x		x
Pantographa suffusalis Druce, 1895 PBL		x			x
Pantographa sp. PBL			x		
Phostria mapetalis (Schaus, 1912) PBL			x		x
Phostria tedea (Cramer, 1781) PBL			x		x
Phostria sp. PBL		x			
Phrygonodes plicatalis Guenée, 1854 PBL			x		
Syllepte amando (Cramer, 1779) KC	x				
Syllepte dioptalis (Walker, [1866]) TLS					
Syllepte belialis (Walker, 1859) TLS					
Cryptobotys zoilusalis (Walker, 1859) TL					
Herpetogramma salbialis (Hampson, 1899) PBL			x		x
Herpetogramma bipunctalis (Fabricius, 1794) EAPZ					
Herpetogramma cervinicosta (Hampson, 1918) PBL			x		x
Pilocrocis ramentalis Lederer, 1863 PBL	x	x	x	x	
Pilocrocis cryptalis (Druce, 1895) PBL	x				x
Pilocrocis cyranoalis Schaus, 1920 PBL			x		
Pilocrocis sp. PBL		x			
Lineodes triangulalis Möschler, 1890 PBL		x			x
Lineodes fontella Walsingham, 1913 PBL			x		
Lineodes mesodonta Hampson, 1913 PBL	x				x
Lineodes tridentalis Hampson, 1913 EAPZ					
Atomopteryx doeri Walsingham, 1891 PBL		x	x		x
Lamprosema lunulalis Hübner, 1823 PBL		x	x		x
Lamprosema nr. *moccalis* Schaus, 1920 PBL		x			
Lamprosema cayugalis Schaus, 1920 PBL			x		x
Lamprosema sp. PBL			x		
Neoleucinodes elegantalis (Guenée, 1854) PBL	x	x	x		
Neoleucinodes imperialis (Guenée, 1854)					
Apogeshna stenialis (Guenée, 1854) PBL	x	x	x		x
Apogeshna acestealis (Walker, 1859) TLS					
Blepharomastix coeneusalis (Walker, 1859) TL					
Blepharomastix costaliparilis Munroe, 1995 CURLA, PBL			x		x
Blepharomastix benetinctalis (Dyar, 1914) PBL	x	x	x		x
Desmia albisectalis (Dognin, 1905) PBL	x		x		
Desmia bajulalis Guenée, 1854 PBL		x	x	x	

Desmia cristinae Schaus, 1912 PBL		x	x	x	
Desmia daedala Druce, 1895 PBL		x	x		x
Desmia extrema (Walker, 1856) PBL		x	x		
Desmia odontoplaga Hampson, 1899 PBL		x	x		
Desmia sepulchralis Guenée, 1854 PBL	x				x
Desmia vulcanalis (Felder and Rogenhoffer, 1875) PBL			x		x
Desmia sp. 1 PBL		x	x		x
Desmia sp. 2 PBL			x		
Desmia sp. 3 PBL			x		
Desmia sp. 4 PBL			x		
Sacculosia isaralis (Felder and Rogenhoffer, 1875) PBL		x			
Hymenia perspectalis (Hübner, 1796) PBL	x	x	x	x	x
Spoladea recurvalis (Fabricius, 1775) EAPZ					
Spilomela discordens Dyar, 1914 PBL		x	x	x	x
Spilomela pantheralis (Geyer, 1832) PBL					x
Spilomela sp. PBL					x
Steniodes acuminalis (Dyar, 1914) PBL	x	x	x		
Steniodes mendica (Hedemann, 1894) EAPZ					
Anarmodia nebulosalis Dognin, 1903 PBL	x		x		
Sparagmia g. gonoptera (Latreille, 1828) PBL			x		x
Asturodes fimbriauralis (Guenée, 1854) PBL	x	x	x		x
Diaphania nitidalis (Cramer, 1781) EAPZ, PBL			x		x
Diaphania arguta (Lederer, 1863) PBL					x
Diaphania exclusalis (Walker, [1866]) PBL		x			
Diaphania latilimbalis (Guenée, 1854) PBL		x	x		
Diaphania modialis (Dyar, 1912) PBL		x			
Diaphania hyalinata (Linnaeus, 1767) PBL, EAPZ		x	x		
Diaphania costata (Fabricius, 1794) PBL	x	x	x	x	
Diaphania esmeralda (Hampson, 1899) PBL			x		
Diaphania sp. PBL			x		
Glyphodes rubrocinctalis (Guenée, 1854) TLS, PBL	x		x		x
Glyphodes s. sibillalis Walker, 1859 PBL			x		x
Hoterodes ausonia (Cramer, 1777) PBL		x	x		
Leucochroma sp. nr. *corope* (Cramer, 1781) PBL			x		
Maruca vitrata (Fabricius, 1787) EAPZ, PBL		x	x	x	x
Omiodes indicata (Fabricius, 1775) EAPZ, PBL			x		x
Omiodes stigmosalis (Warren, 1892) PBL			x		
Omiodes martini Amsel, 1956 PBL		x			
Omiodes martyralis (Lederer, 1863) PBL			x		x
Omiodes simialis Guenée, 1854 PBL					x
Omiodes humeralis Guenée, 1854 PBL		x	x	x	x
Omiodes pandaralis (Walker, 1858) PBL			x		x
Omiodes janzeni Gentili and Solis, 1998 PBL		x			x
Omiodes spp. 1-5 PBL	x	x	x		x
Palpita flegia (Cramer, 1777) PBL					x
Prenesta fenestrinalis (Guenée, 1854) PBL	x	x	x		x
Prenesta scyllalis (Walker, 1859) PBL	x	x	x		x
Synclera jarbusalis (Walker, 1859) PBL			x		x
Synclera chlorophasma (Butler, 1878)					

Agathodes d. designalis Guenée, 1854 PBL			x	x	x
Azochis mactalis (Felder and Rogenhoffer, 1875) PBL					x
Azochis gripusalis Walker, 1859 PBL		x	x	x	x
Compacta hirtalis (Guenée, 1854) TLS					
Megastes grandalis Guenée, 1854 PBL		x			
Megastes sp. PBL		x			
Polygrammodes h. hyalomaculata Dognin, 1908 PBL		x		x	
Polygrammodes rufinalis Hampson, 1899 PBL			x		
Polygrammodes ponderalis (Guenée, 1854) PBL			x		x
Polygrammodes flavidalis (Guenée, 1854) PBL			x		x
Polygrammodes elevata (Fabricius, 1794) PBL			x		
Syngamilyta apicolor (Druce, 1902) PBL			x		
Syngamilyta samarialis (Druce, 1899) PBL			x		
Terastia meticulosalis Guenée, 1854 PBL			x		
Cirrhocephalina brunneivena (Hampson, 1913) PBL			x		
Eulepte concordalis Hübner, [1825] 1826 or nr. PBL		x	x	x	x
Gonocausta zephyralis Lederer, 1863 PBL		x	x		x
Leucochromodes melusinalis (Walker, 1859) PBL		x	x		
Syllepis hortalis (Walker, 1859) PBL		x	x		x
Ategumia ebulealis (Guenée, 1854) PBL			x		
Ategumia matutinalis (Guenée 1854) PBL		x	x	x	
Ategumia actealis (Walker, 1859) TLS					
Ategumia dilecticolor (Dyar, 1912) PBL		x		x	x
Ategumia sp. PBL			x		x
Epipagis fenestralis (Hübner, 1796) PBL					x
Mimophobetron pyropsalis (Hampson, 1904) PBL					x
Samea multiplicalis (Guenée, 1854) TLS					
Samea nicaeusalis (Walker, 1859) TL					
Samea ecclesialis Guenée, 1854 PBL	x	x	x	x	
Samea delicata Kaye, 1923 PBL					x
Arthromastix lauralis (Walker, 1859) PBL					x
Psara prumnides (Druce, 1895) PBL		x			
Conchylodes salamisalis Druce, 1895 PBL	x	x			x
Conchylodes nolckenialis (Snellen, 1875) PBL	x		x	x	x
Conchylodes arcifera Hampson, 1912 PBL					x
Conchylodes platinalis (Guenée, 1854) PBL		x		x	
Pycnarmon cecinalis (Dognin, 1897) PBL		x	x		
Marasmia cochrusalis (Walker, 1859) PBL		x	x		
Marasmia trapezalis (Guenée, 1854) USNM					
Salbia tytiusalis (Walker, 1859) TL					
Salbia haemorrhoidalis (Guenée, 1854) PBL			x		
Salbia pepitalis (Guenée, 1854) PBL					x
Sufetula diminutalis (Walker, [1866]) TL					
Syngamia florella (Cramer, 1781) EAPZ, PBL	x	x	x		x
Apilocrocis excelsalis (Schaus, 1912) PBL		x	x		
Bocchoropsis plenilinealis (Dyar, 1917) PBL	x	x	x	x	
Coenostolopsis apicalis (Lederer, 1863) PBL	x	x			x
Deuterophysa albilunalis (Hampson, 1913) PBL	x	x	x		x
Dichocrocis clystalis Schaus, 1920 PBL			x		

Dichocrosis tlapalis Schaus, 1920 PBL		x			
Dichocrocis sabatalis (Druce, 1895) PBL		x	x	x	x
Maracayia chlorisalis (Walker, 1859) EAPZ, PBL		x			
Massepha lupa (Druce, 1899) PBL					x
Metoeca foedalis (Guenée, 1854) PBL		x			
Microphysetica hermeasalis (Walker, 1859) PBL	x	x	x		
Nonazochis graphialis (Schaus, 1912) PBL			x		x
Palpusia terminalis (Dognin, 1910) PBL		x			
Palpusia sp. PBL					x
Sisyracera subulalis (Guenée, 1854) PBL		x			
Trichaea pilicornis Herrich-Schäffer, 1866 PBL			x		x
Trichaea sp. PBL	x	x	x	x	x
PYRALIDAE					
Pyralinae					
Hypsopygia craspedalis (Hampson, 1906) PBL	x	x	x		x
Hypsopygia resectalis (Lederer, 1863) PBL	x				x
Hypsopygia graafialis (Snellen, 1875) PBL		x	x		
Chrysauginae					
Azamora splendens (Druce, 1895) PBL		x		x	
Bonchis munitalis (Lederer, 1863) TLS, PBL		x	x		
Bonchis scoparioides Walker, 1862 PBL		x	x		
Caphys biliniata (Stoll, 1781) TLS, PBL	x	x	x	x	x
Caphys subrosealis (Walker, [1866]) TL					
Carcha hersilialis Walker, 1859 TL					
Carcha violalis Hampson, 1897 PBL		x	x		x
Clydonopteron pomponius Druce, 1895 PBL		x	x		x
Clydonopteron sp. PBL			x		
Dasycnema obliqualis (Hampson, 1897) PBL	x	x	x		x
Galasa strenualis Dyar, 1914 PBL	x	x	x		x
Galasa striginervalis Hampson, 1906 PBL	x				x
Galasa sp. 1 PBL		x	x		x
Galasa sp. 2 PBL	x	x			x
Galasa sp. 3 PBL	x				
Hyperparachma bursarialis (Walker, [1866]) TL		x			
Hyperparachma sp. PBL	x	x	x		x
Lophopleura eurzonalis Hampson, 1897 PBL					x
Parachma meterythra Hampson, 1897 PBL	x	x	x		
Salobrena atropurpurea Hampson, 1906 PBL		x			
Salobrena vacuana (Walker, 1863) PBL		x			
Tetrachistis paula Schaus, 1904 PBL	x		x		
Xantippe olivalis Dyar, 1914 PBL	x	x	x		
Zanclodes falculalis Ragonot, 1891 PBL	x		x		
Epipaschiinae					
Accinctapubes albifasiata (Druce, 1902) PBL		x			
Anarnatula sylea (Druce, 1899) PBL	x	x			
Arnatula circumlucens Dyar, 1914 PBL	x	x	x		
Calybitia adolescens (Dyar, 1914) PBL		x			
Carthara albicosta Walker, 1865 PBL	x	x	x		x
Chloropaschia selecta (Schaus, 1912) PBL			x		

Deuterollyta cantianilla (Schaus, 1925) PBL	x		x		
Deuterollyta majuscula Herrich-Schäffer, 1871 PBL					x
Deuterollyta ragonoti Möschler, 1890 PBL	x	x	x		
Epipaschia mesoleucalis (Hampson, 1916) PBL	x	x	x		x
Macalla thyrsisalis Walker, [1859] TL, PBL		x	x		
Macalla finstanalis Schaus, 1922 PBL			x		x
Milgithea melanoleuca (Hampson, 1896) PBL		x	x		x
Pandoflabella olivescens (Schaus, 1912) PBL	x		x		x
Phidotricha erigens Ragonot, 1888 PBL, KC		x	x		
Lepidogma modana Schaus, 1922 PBL	x	x			x
Pococera narthusa Schaus, 1913 PBL	x	x	x		
Pococera gelidalis (Walker, [1866]) TL					
Pococera sp. PBL	x	x	x		x
Tallula fovealis Hampson, 1906 PBL	x	x	x		x
Tallula melazonalis Hampson, 1906 PBL		x			
Tancoa crinita (Schaus, 1912) PBL	x				x
Tancoa calitas (Druce, 1899) PBL		x	x		
Tancoa sp. PBL	x		x		x
Phycitinae					
Ectomyelois muriscis (Dyar, 1914) PBL		x	x		x
Difundella sp.					x
Eurythmidia ignidorsella (Ragonot, 1887) PBL	x	x			
Caudellia declivella (Zeller, 1881) or nr. PBL	x				
Davara caricae (Dyar, 1913) PBL	x	x			
Dioryctria batesella Mutuura and Neunzig, 1986 PBL			x		
Dioryctria erythropasa (Dyar, 1914)					
Dioryctria sp. PBL			x		
Drescomopis soraella (Druce, 1899) PBL	x				
Anabasis ochrodesma (Zeller, 1881) PBL		x			
Piesmopoda sp. PBL	x	x	x		x
Tlascala reductella (Walker, 1863) TL					
Ufa rubedinella (Zeller, 1848) TLS					
--- THYRIDOIDEA ---					
THYRIDIDAE					
Banisia furva epasta Whalley, 1976					
Draconia rusina Druce, 1895					
Draconia denticulata (Pagenstecher, 1892) or nr. PBL		x			
Dysodia sp. 1 PBL			x		
Dysodia sp. 2 PBL			x		
Gippius sumptuosus Walker, 1855 TL					
Microsca sp. CURLA					x
Pseudendromis thetis (Druce, 1899) PBL		x		x	
Rhodoneura nebulosa (Warren, 1889) or nr. PBL		x	x	x	x
Zeuzerodes fumatilis (Pagenstecher, 1892) PBL		x			
undet. sp. 1 PBL			x		
undet. sp. 2 PBL		x			
undet. sp. 3 PBL					x
undet. sp. 4 PBL		x			

--- MIMALLONOIDEA ---					
MIMALLONIDAE					
Cicinnus sp. PBL		x			
Druentica partha (Schaus, 1905) or nr. PBL		x			
Roelmana maloba (Scahus, 1905) PBL		x			
--- LASIOCAMPOIDEA ---					
LASIOCAMPIDAE					
Artace cribraria (Ljungh, 1825) PBL		x	x		
Euglyphis amathuria Druce, 1890 PBL		x			
Euglyphis amisena (Druce, 1890)					
Euglyphis canifascia (Walker, 1869)					
Euglyphis cercina (Druce, 1897)					
Euglyphis guttularis (Walker, 1855)					
Euglyphis poasia Schaus, 1910 PBL	x		x	x	x
Euglyphis thyatira (Druce, 1887) PBL			x	x	
Euglyphis zurcheri Druce, 1897 PBL	x		x		
Euglyphis sp. 1 PBL			x		
Euglyphis sp. 2 PBL					x
Eutachyptera psidii Sallé, 1857 EAPZ					
Nesara casada (Schaus, 1911) PBL		x	x		
Nesara sp. PBL					x
Prorifrons sp. PBL			x		
Tolype caieta Druce, 1897 PBL			x		
--- BOMBYCOIDEA ---					
BOMBYCIDAE					
Apatelodes satellitia (Walker, 1855) PBL		x	x	x	x
Apatelodes merlona Schaus, 1939 PBL		x	x		x
Colla coelestis Schaus, 1910 PBL		x	x		x
Epia muscosa (Butler, 1878) PBL			x	x	x
Epia casnonia (Druce, 1887) PBL			x		
Olceclostera indentata Schaus, 1910 or nr. PBL	x	x			x
Olceclostera sp. PBL		x	x		x
SATURNIIDAE					
Oxyteninae					
Oxytenis modestia (Cramer, [1780]) PBL	x	x			x
Oxytenis beprea Druce, 1886 or nr. PBL		x			
Arsenurinae					
Arsenura armida (Cramer, 1779) PBL, EAPZ, RLMM		x		x	
Arsenura batesii (Felder and Rogenhofer, 1874)					
Caio championi (Druce, 1886) EAPZ, RLMM					
Copiopteryx semiramis banghaasi Draudt 1930 EAPZ					
Dysdaemonia boreas (Cramer, [1775]) PBL, EAPZ, RLMM		x	x	x	x
Titaea tamerlan nobilis (Schaus, 1912) EAPZ, RLMM			x		
Titaea sp. nr tamerlan (Maasen, 1869) PBL			x		
Rhescyntis hippodamia (Cramer, 1777) EAPZ, RLMM			x	x	
Ceratocampinae					
Adeloneivaia boisduvalii (Doûmet, 1859) PBL, EAPZ			x		
Adeloneivaia jason (Boisduval, 1872) PBL, EAPZ, RLMM			x		
Adeloneivaia subangulata (Herrich-Schäffer, [1855]) PBL, EAPZ, RLMM		x	x		

Adelowalkeria caeca Lemaire, 1969 PBL					x
Citioica anthonilis (Herrich-Schäffer, [1854]) EAPZ					
Citheronia lobesis Rothschild, 1907 EAPZ					
Citheronia bellavista Draudt, 1930 EAPZ, RLMM					
Citheronoides collaris (Rothschild, 1907) RLMM, PBL				x	
Eacles imperialis (Drury, 1773) PBL		x			
Eacles imperialis decoris Rothschild, 1907 EAPZ, RLMM					
Eacles masoni Schaus, 1896 EAPZ					
Eacles ormondei Schaus, 1889 EAPZ, RLMM, PBL					x
Othorene purpurascens (Schaus, 1905) EAPZ, RLMM					
Othorene verana (Schaus, 1900) EAPZ, RLMM				x	
Schausiella santarosensis Lemaire, 1982 PBL, RLMM		x			
Syssphinx sp. PBL					x
Syssphinx colla Dyar, 1907 PBL, EAPZ, RLMM		x	x		
Syssphinx mexicana (Boisduval, 1872) EAPZ, RLMM					
Syssphinx molina (Cramer 1780) PBL, EAPZ, RLMM			x	x	
Syssphinx montana (Packard, 1905) PBL					x
Syssphinx quadrilineata (Grote and Robinson, 1867) EAPZ, RLMM, PBL				x	
Hemileucinae					
Automeris banus (Boisduval, 1875) EAPZ, RLMM					
Automeris belti Druce 1886 PBL, EAPZ, RLMM	x	x	x	x	x
Automeris excreta Draudt, 1929 RLMM					
Automeris hamata Schaus, 1906 EAPZ					
Automeris jucunda (Cramer, 1779)					
Automeris lauta Johnson and Michener, 1948 EAPZ					
Automeris metzli (Sallé, 1853) EAPZ, RLMM					
Automeris moloneyi Druce, 1897 EAPZ, RLMM					
Automeris zozine Druce, 1886 EAPZ, RLMM					
Automeris pallidior Draudt, 1929 EAPZ, RLMM					
Automeris phrynon Druce, 1897 EAPZ					
Automeris postalbida Schaus, 1900 PBL, EAPZ, RLMM					x
Automeris rubrescens (Walker, 1855) EAPZ					
Automeris tridens (Herrich-Schäffer, 1855) EAPZ					
Dirphiopsis flora (Schaus, 1911)					
Hylesia lineata Druce, 1886 PBL, RLMM			x		
Hylesia continua (Walker, 1865) PBL, RLMM	x	x	x	x	
Hylesia rubrifrons Schaus, 1911 PBL		x	x		x
Hylesia gamelioides Michener, 1952 EAPZ, RLMM					
Hylesia tinturex Schaus, 1921 EAPZ					
Hylesia umbratula Dyar, 1927 EAPZ					
Hylesia r. rosacea Schaus, 1911, PBL		x	x		x
Gamelia abas (Cramer, 1775) PBL	x	x			
Gamelia septentrionalis Bouvier, 1936 RLMM					
Hyperchira nausica (Cramer, 1779) PBL, RLMM	x	x	x		x
Leucanella acutissima Walker, 1865 EAPZ, RLMM					
Leucanella contempta Lemaire, 1967 EAPZ					
Lonomia electra Druce 1886 EAPZ, RLMM, PBL			x		x
Molippa nibasa (Maassen and Weyding, 1885) PBL, EAPZ, RLMM			x	x	
Dirphia avia (Stoll, 1780) PBL					x

Paradirphia boudinoti Lemaire and Wolfe, 1990					
Paradirphia rectilineata Wolfe, 1994 EAPZ					
Paradirphia semirosea (Walker 1855) EAPZ, RLMM					
Periphoba arcaei E. D. Jones, 1908 PBL, RLMM		x	x		x
Pseudodirphia menander (Druce, 1886) EAPZ, RLMM					
Pseudodirphia regia (Draudt, 1930) EAPZ, RLMM					
Saturniinae					
Antheraea godmani (Druce 1892) EAPZ, RLMM					
Copaxa escalantei Lemaire, 1971 EAPZ, RLMM					
Copaxa cydippe (Druce, 1894) EAPZ					
Copaxa evelynae Wolfe and Lemaire (1993) EAPZ					
Copaxa lavendera (Westwood, 1853) EAPZ					
Copaxa mazaorum Lemaire, 1982 RLMM					
Copaxa multifenestrata (Herrich-Schäffer, 1858) PBL, EAPZ, RLMM			x		
Copaxa rufinans Schaus, 1906 PBL, EAPZ, RLMM		x			
Copaxa curvilinea Schaus, 1912 EAPZ					
Copaxa sophronia Schaus, 1921 EAPZ, RLMM					
Eupackardia calleta (Westwood, 1853) EAPZ					
Rothschildia erycina mexicana EAPZ, RLMM					
Rothschildia lebeau (Guérin-Méneville 1868) PBL, EAPZ, RLMM			x		
Rothschildia orizaba (Westwood, 1853) EAPZ, RLMM					
Rothschildia roxana Schaus, 1905 Bouvier, 1936 RLMM, PBL					x
SPHINGIDAE					
Macroglossinae					
Aellopos ceculus (Cramer, 1777) EAPZ, PBL					x
Aellopos clavipes Rothschild and Jordan, 1903					
Aellopos titan (Cramer, 1777) EAPZ					
Aleuron chloroptera (Perty, 1833) EAPZ					
Aleuron neglectum Rothschild and Jordan, 1903 EAPZ					
Callionima denticulata (Schaus, 1895), PBL, EAPZ		x			
Callionima falcifera (Gehlen, 1943) PBL, EAPZ	x		x		x
Callionima nomius (Walker, 1856), PBL, EAPZ		x	x		
Callionima pan (Cramer, 1779) EAPZ					
Callionima parce (Fabricius, 1775) EAPZ, PBL			x		x
Enyo gorgon (Cramer, 1777) EAPZ					
Enyo l. lugubris (Linnaeus, 1771) EAPZ, PBL				x	
Enyo ocypete (Linnaeus, 1758) EAPZ, PBL	x		x	x	
Enyo taedium Schaus, 1890 PBL					
Erinnyis alope (Drury, 1773) PBL		x			
Erinnyis crameri (Schaus, 1898) EAPZ					
Erinnyis e. ello (Linnaeus, 1758) EAPZ					
Erinnyis lassauxii (Boisduval, 1859) EAPZ					
Erinnyis obscura (Fabricius, 1775) EAPZ					
Erinnyis oenotrus (Cramer, 1780) EAPZ, PBL			x	x	
Erinnyis yucatana (Druce, 1888)					
Hemeroplanes ornatus Rothschild, 1894 PBL			x	x	x
Hemeroplanes triptolemus (Cramer, 1779) EAPZ					
Isognathus rimosa (Grote, 1865) EAPZ					
Isognathus scyron (Cramer, 1780) RLMM					

Nyceryx coffaeae (Walker, 1856) EAPZ					
Nyceryx eximia (Rothschild and Jordan, 1916) EAPZ					
Nyceryx riscus (Schaus, 1890) EAPZ					
Nyceryx tacita (Druce, 1888) EAPZ					
Madoryx oiclus (Cramer, 1779) EAPZ					
Madoryx plutonius (Hübner, 1819) PBL, EAPZ		x	x	x	
Pachylia darceta Druce, 1881 PBL, EAPZ	x	x	x	x	x
Pachylia ficus (Linnaeus, 1758) PBL		x	x	x	
Pachylia s. syces (Hübner, 1819) EAPZ					
Pachylioides resumens (Walker, 1856) EAPZ, PBL		x	x	x	x
Perigonia jamaicensis Rothschild, 1894 EAPZ					
Perigonia lusca (Fabricius, 1777) EAPZ, PBL			x	x	
Perifonia pallida Rothschild and Jordan, 1903, PBL			x	x	
Perigonia stulta Herrich-Schäffer, 1854 EAPZ, RLMM					
Phryxus caicus (Cramer, 1777) EAPZ					
Pseudosphinx tetrio (Linnaeus, 1771) EAPZ					
Stolidoptera tachasara (Druce, 1888) EAPZ					
Unzela j. japix (Cramer, 1776) EAPZ					
Cautethia spuria (Boisduval, 1875) EAPZ					
Cautethia yucatana Clark, 1919					
Hyles l. lineata (Fabricius., 1775) EAPZ					
Xylophanes acrus Rothschild and Jordan, 1910 EAPZ					
Xylophanes amadis cyrene (Druce, 1881) PBL		x			
Xylophanes anubus (Cramer, 1777) EAPZ					
Xyophanes belti (Druce, 1878) EAPZ, PBL			x		x
Xylophanes falco (Walker, 1856) TL					
Xylophanes ceratomioides Grote and Robinson, 1867 EAPZ, PBL			x		x
Xylophanes chiron nechus (Cramer, 1777) PBL, EAPZ		x	x	x	x
Xylophanes cyrene (Druce, 1881)					
Xylophanes damocrita (Druce, 1894) EAPZ					
Xylophanes eumedon (Boisduval, 1875) EAPZ					
Xylophanes g. germen (Schaus, 1890) EAPZ					
Xylophanes hannemanni Closs, 1917					
Xylophanes juanita Rothschild and Jordan, 1903 EAPZ					
Xylophanes libya (Druce, 1878) EAPZ, PBL		x	x		
Xylophanes loelia (Druce, 1878) EAPZ, PBL	x			x	
Xylophanes neoptolemus (Stoll, 1780) EAPZ , PBL			x	x	x
Xylophanes pistacina Boisduval, 1875 EAPZ					
Xylophanes pluto (Fabricius, 1777) EAPZ, PBL		x	x	x	
Xylophanes porcus continentalis Rothschild and Jordan, 1903, PBL, EAPZ		x	x		
Xylophanes pyrrhus (Rothschild and Jordan, 1906) EAPZ, PBL				x	
Xylophanes tersa (Linnaeus, 1771) EAPZ					
Xylophanes thyelia (Linnaeus, 1758) EAPZ, PBL		x	x		
Xylophanes titana (Druce, 1878) EAPZ					
Xylophanes turbata (Edwards, 1887)					
Xylophanes t. tyndarus (Boisduval, 1875) EAPZ, PBL			x		
Xylophanes undata Rothschild and Jordan, 1903 EAPZ, PBL					x
Xylophanes zurcheri (Druce, 1894) EAPZ, PBL				x	
Eumorpha achemon Drury, 1773 EAPZ					

Eumorpha anchemolus (Cramer, 1779) PBL				x	
Eumorpha capronneri (Boisduval, 1875)					
Eumorpha fasciatus (Sulzer, 1776) EAPZ, PBL			x		
Eumorpha labruscae (Linnaeus, 1758) EAPZ					
Eumorpha o. obliquus (Rothschild and Jordan, 1903)					
*Eumorpha phorbus (*Cramer, 1775) EAPZ, PBL			x	x	
Eumorpha satellitia licaon (Cramer, 1775) EAPZ, PBL			x		x
Eumorpha triangulum (Rothschild and Jordan, 1903) EAPZ, PBL			x	x	x
Eumorpha typhon (Klug, 1836) EAPZ					
Eumorpha v. vitis (Linnaeus, 1748) PBL, EAPZ	x		x	x	
Smerinthinae					
Adhemarius dariensis (Rothschild and Jordan, 1903) EAPZ					
Adhemarius donysa (Druce, 1889) EAPZ					
Adhemarius g. gannascus (Stoll, 1790) EAPZ, PBL				x	
Adhemarius ypsilon (Rothschild and Jordan, 1903) PBL, EAPZ		x	x		
Protambulyx strigilis (Linnaeus, 1771) EAPZ, PBL			x	x	x
Sphinginae					
Agrius cingulata (Fabricius, 1775) EAPZ, PBL				x	
Amphimoea walkeri (Boisduval, 1875) EAPZ					
Cocytius antaeus (Drury, 1773) EAPZ					
Cocytius duponchel (Poey, 1832) EAPZ, PBL				x	
Cocytius lucifer Rothschild and Jordan, 1903 EAPZ					
Manduca albiplaga (Walker, 1856) PBL			x		
Manduca corallina (Druce, 1883) RLMM					
Manduca extrema (Gehlen, 1926) PBL			x		
Manduca florestan (Stoll, 1782) PBL, EAPZ			x		x
Manduca incisa (Walker, 1856) EAPZ					
Manduca lanuginosa (Edwards, 1887) EAPZ					
Manduca lefeburei (Guèrin-Mèneville, 1844) EAPZ, PBL			x		
Manduca muscosa (Rothschild and Jordan, 1903) EAPZ					
Manduca occulta (Rothschild and Jordan, 1903) PBL, EAPZ		x		x	
Manduca ochus (Klug, 1836) EAPZ, PBL				x	
Manduca pellenia (Herrich-Schäffer, 1854) EAPZ, PBL			x		
Manduca r. rustica (Fabricius, 1775) EAPZ, PBL			x	x	
Manduca sexta (Linnaeus, 1763) EAPZ					
Manduca wellingi Brou, 1984					
Neococytius cluentius (Cramer, 1775) EAPZ, PBL			x		
Sphinx leucophaeata Clemens, 1859 EAPZ					
Sphinx merops (Linnaeus, 1758) EAPZ					
Sphinx praelongus (Rothschild and Jordan, 1903) EAPZ					
--- HEDYLOIDEA ---					
HEDYLIDAE					
Macrosoma bahiata (Felder and Rogenhofer, 1875) PBL				x	
Macrosoma cascaria (Schaus, 1901) PBL			x	x	
Macrosoma conifera (Warren, 1897) PBL		x	x		x
Macrosoma hyacinthina (Warren, 1905) PBL		x			
Macrosoma lucivittata (Walker,1863) EAPZ					
Macrosoma rubedinaria (Walker, 1862) PBL		x	x		x
Macrosoma semiermis (Prout, 1932) PBL			x		x

--- GEOMETROIDEA ---					
SEMATURIDAE					
Sematura lunus (Linnaeus, 1758) EAPZ, PBL			x		
Coronidia canace (Hopffer, 1856) EAPZ					
URANIIDAE					
Uraniinae					
Urania fulgens (Walker, 1854) EAPZ					
Epipleminae					
Aniplecta sp. PBL			x		
Epiplema sp. PBL					x
Philagraula slossoniae Hulst, 1896 PBL			x		
GEOMETRIDAE					
Oenochrominae					
Ametris nitocris (Cramer, 1780) PBL				x	
Macrotes commatica Prout, 1916 PBL		x		x	x
Ergavia carinenta (Cramer, 1777)					
Ergavia merops (Cramer, 1775) PBL				x	
Geometrinae					
Rhodochlora brunneipalpis Warren, 1894 PBL				x	
Nemoria aturia (Druce, 1892)					
Nemoria nr. karlae Pitkin, 1993 PBL		x			
Nemoria nr. *parcipunta* (Dognin, 1908) PBL				x	
Nemoria nr. *priscillae* Pitkin, 1993 PBL				x	
Nemoria scriptaria (Hübner, 1823) PBL		x	x		x
Nemoria venezuelae (Prout, 1932) PBL		x			
Nemoria punctilinea (Dognin, 1902) PBL		x	x		x
Lissochlora magnostigma (Dyar, 1912) PBL	x				
Synchlora expulsata (Walker, 1861) PBL	x	x	x		x
*Synchlora gerulari*a (Hübner, [1823]) PBL	x	x	x	x	x
Synchlora pulchrifimbria Warren, 1907 PBL	x	x	x	x	x
Synchlora venustula (Dognin, 1910) PBL				x	
Pyrochlora rhanis (Cramer, 1777) PBL			x	x	
Tachyphyle sp. nr. *acuta* Butler, 1881 PBL		x			
Phrudocentra janeira (Schaus, 1897) PBL			x	x	x
Phrudocentra pupillata Warren, 1897 PBL				x	
Neagathia corruptata (Felder and Rogenhofer, 1875) PBL				x	
Dichorda consequaria (Hy. Edwards, 1884)					
Oospila concinna Warren, 1900 PBL			x		
Oospila rosipara Warren, 1897 PBL			x	x	
Oospila venezuelata (Walker, 1861) PBL				x	
Xerochlora sp. nr. *masonaria* (Schaus, 1897) PBL		x			
Chlorochlamys sp. KC	x				
Chloropteryx dealbata (Warren, 1909) PBL, KC	x		x	x	x
Chloropteryx diluta (Dognin, 1911) PBL		x	x		
Chloropteryx opalaria (Guenée, 1858) PBL	x	x			
Chloropteryx sp. KC	x				
Sterrhiinae					
Dithecodes distracta (Walker, 1861) PBL	x				
Dithecodes sp. PBL					x

Tricentra sp. nr. *fulvifera* Dognin, 1908 PBL				x	
Tricentra quadrigata (Felder, 1875) PBL		x			
Tricentra sp. 1 PBL	x	x	x	x	x
Tricentra sp. 2 PBL				x	
Semaeopus deflexa (Warren, 1900)					
Semaeopus caecaria (Hübner, 1825) PBL		x			x
Semaeopus varia (Warren, 1895) PBL					x
Semaeopus sp. PBL				x	
Trygodes musivaria (Herrich-Schäffer, 1855) PBL			x	x	x
Cyclophora anablemma (Prout, 1938) PBL				x	
Pleuroprucha sp. nr. *ochrea* (Warren, 1897) PBL, KC	x	x		x	
Haemalea imitans (Dognin, 1900) PBL		x	x		
Leptostales crossii (Hulst, 1900) PBL		x			
Leptostales sp. PBL		x		x	
Scopula apparitaria (Walker, 1861) TL					
Scopula confertaria (Walker, 1861) TL					
Scopula privata (Walker, 1861) PBL	x				
Scopula subquadrata (Guenée, 1858)					
Scopula suffundaria (Walker, 1861) TL					
Scopula umbilicata (Fabricius, 1794)					
Scopula sp. PBL		x			
Tricentrogyna violescens (Schaus, 1901) PBL	x	x	x	x	x
Tricentrogyna sp. nr. *deportata* (Walker, 1861) PBL	x	x	x		
Tricentrogyna sp. 1 PBL		x		x	
Tricentrogyna sp. 2 PBL			x		
Lobocleta figurinata (Guenée, 1858)					
Idaea complexaria (Schaus, 1901) PBL		x	x		
Idaea contractalis (Walker, 1866) TL					
Idaea sp. nr. *elegentaria* (Herrich-Schäffer, 1854) PBL				x	
Idaea helleria (Schaus, 1913) PBL		x			
Idaea latiferaria Walker, 1861 TL					
Idaea sp. nr. *pervertipennis* (Hulst, 1900) PBL				x	
Idaea spernata (Walker, 1861)					
Idaea subfervens (Prout, 1920) PBL			x		x
Idaea tacturata (Walker, 1861) PBL	x	x	x		
Idaea sp. PBL	x	x	x	x	
Smicropus intercepta (Walker, 1854) TL					
Smicropus laeta (Walker, [1865]) CURLA, PBL			x	x	
Larentiinae					
Euphyia cinerascens (Dognin, 1900) PBL				x	
Euphyia sp. PBL				x	
Disclisioprocta stellata (Guenée, 1858) PBL				x	
Obila floccosaria (Walker, 1866) TLS					
Obila pannosata (Guenée, 1858)					
Obila sp. PBL				x	
Rheumaptera sp. PBL				x	
Eutrepsia dispar (Walker, 1854) TLS					
Oligopluera malachitaria Herrich-Schäffer, 1855 PBL			x	x	x
Oligopluera aulaeata Felder and Rogenhoffer, 1875 PBL					x

Eubaphe conformis (Walker, 1854) PBL			x		
Eubaphe sp. PBL				x	
Eudulophasia invaria (Walker, 1854) PBL			x		x
Psaliodes sp. PBL		x			
Eupithecia spilosata (Walker, 1863) TL					
Eupithecia sp. 1 PBL	x		x		
Eupithecia sp. 2 PBL		x			
Eois sp. nr. *binaria* (Guenée [1858]) PBL	x				
Eois catana Druce, 1892 PBL		x		x	
Eois nr. *dorisaria* (Schaus, 1913) PBL				x	
Eois heliadaria (Guenée, 1858)					
Eois insignata (Walker, 1861) PBL			x		x
Eois expressaria (Walker, 1861) TL					
Eois sp. 1-4 PBL	x		x		x
Ennominae					
Thysanopyga amarantha Debauche, 1937 PBL	x	x	x	x	x
Thysanopyga apitruncaria Herrich-Schäffer, 1856 PBL				x	
Thysanopyga carfinia (Druce, 1893) PBL				x	
Thysanopyga pygaria (Guenée, 1858) PBL				x	
Parilexia cermala (Druce, 1893) PBL	x	x	x	x	x
Perigramma repitita Warren, 1905 PBL				x	
Perigramma sp. nr. *guatemalaria* Schaus, 1927 PBL	x	x	x		
Dyschoroneura obsolescens Warren, 1894 PBL				x	
Leucula abilinearia Guenée, 1858					
Simena luctifera (Walker, 1856) TLS					
Periclina syctaria (Walker, 1860)					
Cyclomia minuta (Druce, 1892) PBL			x		
Cyclomia disparlis Schaus, 1911 PBL		x			x
Eusarca asteria (Druce, 1892) PBL, TLS	x				
Eusarca minucia (Druce, 1892) PBL				x	
Eusarca nemoria (Druce, 1892) PBL		x			
Polla celeraria (Walker, 1860) PBL	x		x	x	x
Cimicodes albicosta Dognin, 1913 PBL		x			
Pyrinia itunaria Walker, 1860 PBL	x				
Pyrinia sanitaria Schaus 1901 PBL	x	x	x	x	x
Pyrinia sp. PBL			x	x	
Patalene aenetusaria (Walker, 1860) PBL	x	x	x	x	x
Patalene nr. *asychisaria* (Walker, 1860) PBL				x	
Patalene hamulata (Guenée, 1858)					
Patalene luciata (Stoll, 1790) PBL				x	
Patalene trogonaria (Herrich-Schäffer, 1856) PBL				x	
Patalene sp. PBL				x	
Trotopera arrhapa (Druce, 1891) PBL			x		
Euclysia dentifasciata Dognin, 1910 PBL	x		x	x	
Euclysia sp. PBL			x		x
Synnomos firmamentaria Guenée, 1858 MGCL					
Sericoptera mahometaria (Herrich-Schäffer, 1856) PBL			x	x	x
Nepheloleuca politia (Cramer, 1777) PBL					x
Nepheloleuca floridata (Grote, 1883) EAPZ					

Paragonia cruraria (Herrich- Schäffer, 1854) PBL	x		x	x	x
Prochoerodes striata (Stoll, 1798) PBL			x		
Prochoerodes sp. KC	x				
Oxydia apidania (Cramer, 1779) PBL	x			x	x
*Oxydia vesuli*a (Cramer, 1779) or nr. PBL	x	x	x	x	x
Microgonia rufaria Warren, 1901 PBL	x	x	x	x	x
Herbita lilacina (Warren, 1897) PBL	x		x		x
Pero afuera Poole, 1987 PBL				x	
Pero nr. *anceta* (Stoll, 1781) PBL				x	
Pero astapa (Druce, 1892)					
Pero aurunca (Druce, 1892)					
Pero clysiaria (Felder and Rogenhoffer, 1875) PBL	x				
Pero coronata Warren, 1904 PBL			x	x	
Pero delauta (Warren, 1907)					
Pero dularia Poole, 1987					
Pero fragila Poole, 1987					
Pero fusaria (Walker, 1860)					
Pero incisa Dognin, 1889 PBL		x	x		x
Pero lessema (Schaus, 1901)					
Pero melissa (Druce, 1892)					
Pero polygonaria (Herrich-Schäffer, 1855) PBL			x	x	
Pero probata Poole, 1987 PBL				x	
Pero pumaria Felder and Rogenhoffer, 1875 PBL		x	x	x	x
Pero saturata (Walker, 1868) PBL			x		
Pero spina Poole, 1897					
Pero verda Poole, 1987					
Sphacelodes vulneraria (Hübner, 1823) PBL, EAPZ, KC	x	x	x	x	
Nematocampa completa Warren, 1904 PBL	x		x	x	x
Nematocampa sp. PBL				x	
Erastria decrepitaria (Hübner, 1823) PBL		x	x	x	
Semiothisa carinaria Dognin, 1924 PBL				x	
Semiothisa divergentata (Snellen, 1894) PBL			x	x	
Macaria aequiferaria Walker, 1861 TLS					
Macaria nr. *ferina* (Dognin, 1924) PBL				x	
Macaria gambarina (Stoll, [1781]) PBL	x	x	x	x	x
Macaria nr. *guapilaris* (Schaus, 1911) PBL				x	
Macaria nr. *lydia* (Scahus, 1912) PBL				x	
Macaria regulata (Fabricius, 1775) PBL				x	
Macaria subfulva (Warren, 1906) PBL				x	
Macaria sp. 1-3 PBL	x	x	x	x	x
Psamatodes abydata (Guenée, [1858]) PBL, KC	x		x	x	x
Tornos pusillus Rindge, 1954 PBL					x
Epimecis detexta (Walker, 1860) PBL				x	
Epimecis fraternaria (Guenée, 1858)					
Epimecis matronaria (Guenée, 1858) PBL				x	
Epimecis patronaria (Walker, 1860)					
Epimecis subroraria Walker, 1860 PBL			x		
Epimecis sp. PBL		x			x
Glena agria Rindge, 1967 PBL		x	x	x	x

Hymenomima camerata Warren, 1900 PBL	x			x	
Hymenomima sp. 1 PBL				x	x
Hymenomima sp. 2 PBL				x	
Physocleora sp. PBL	x				
Iridopsis nr. *aviceps* Prout, 1932 PBL				x	
Iridopsis herse (Schaus, 1912) PBL				x	
Iridopsis validaria (Guenée, 1858) PBL			x	x	x
Iridopsis pandarosos (Schaus, 1912) PBL	x	x	x	x	x
Iridopsis oberthuri Prout, 1932 PBL	x				
Melanolophia flexilinea (Warren, 1906)					
Melanolophia sadrina (Schaus, 1901) PBL				x	
Melanolophia sp. PBL				x	
Phyle schausaria (Hy. Edwards, 1884)					
Pantherodes pardalaria Hübner, 1823 EAPZ					
Pantherodes sp. PBL		x			x
Melanchroia chephise (Stoll, 1782)					
Phrygionis divitaria (Oberthür, 1916) PBL			x		x
Phrygionis pallicosta (Felder and Rogenhofer, 1875) PBL					x
Phrygionis polita (Cramer, 1780)					
Phrygionis privignaria (Guenée [1858]) PBL		x		x	x
Pityeja histrionaria (Herrich-Schäffer, 1853) MGCL					
Opisthoxia bella (Butler, 1881) TL					
Opisthoxia sp. nr. cluana (Druce, 1900) PBL			x		x
Opisthoxia uncinata (Schaus, 1912) PBL				x	
*Leuciris fimbriari*a (Stoll, [1781]) PBL	x	x	x	x	x
--- NOCTUOIDEA ---					
NOTODONTIDAE					
Notodontinae					
Cerura rarata Walker, 1865 PBL		x	x	x	x
Dudusinae					
Crinodes besckei (Hübner, 1824) PBL			x	x	
Crinodes guatemalena Druce, 1887 EAPZ, PBL, KC	x	x	x		
Crinodes schausi Rothschild, 1917 EAPZ					
Crinodes striolata Schaus, 1901 PBL		x	x		x
Hemiceratinae					
Apela neobule Druce, 1905 or nr. PBL			x		x
Hemiceras alba Walker, 1865 TL					
Hemiceras bilinea Schaus EAPZ					
Hemiceras spp. 1-16 PBL	x	x	x		x
Heterocampinae					
Antaea omana Schaus, 1906 PBL		x			x
Chilara cresus (Cramer, 1777) PBL			x		
Colax phocus Schaus, 1892 PBL		x	x		x
Colax sp. PBL			x		
*Contrebia extrem*a Walker, 1856 TL					
Disphragis livida Schaus, 1911 PBL	x		x		x
Disphragis remuria Druce, 1898 PBL	x		x		
Disphragis tharis (Stoll, [1780]) PBL		x		x	
Drugera morona Druce, 1898 or nr. PBL		x	x		x

Farigia sp. nr. *magniplaga* Schaus, 1906 PBL		x			
Farigia sp. PBL					x
Hapigia annulata Schaus, 1905 PBL			x	x	
Hapigia repandens Schaus, 1906 PBL	x		x		
Hapigia simplex (Walker, 1865) PBL		x		x	x
Hapigia sp. 1 PBL	x		x		
Hapigia sp. 2 PBL		x			
Magava multilinea Walker, 1865 PBL			x		
Naprepa sp. PBL	x				
Rhuda difficilis Schaus, 1911 PBL			x	x	x
Rhuda tuisa Schaus, 1911 PBL			x	x	
Rifargia gelduba Schaus, 1892 PBL			x		
Rifargia sp. 1 PBL		x	x		
Rifargia sp. 2 PBL					x
Rifargia sp. 3 PBL					x
Rosema apicalis Walker, 1855					
Rosema epigena (Stoll, 1790) PBL			x		x
Rosema thestia Druce, 1898 PBL				x	
Sericochroa arecosa Druce 1898 PBL	x	x	x	x	x
Trichomaplata sp. PBL	x	x	x		x
Nystaleinae					
Bardaxima meyeri Schaus, 1928 PBL					x
Calledema argenta Schaus, 1905 PBL		x	x		
Calledema jocasta (Schaus, 1901) PBL			x		
Didugua argentilinea Druce, 1891 EAPZ, PBL	x				
Didugua violascens Herrich-Schäffer EAPZ					
Elasmia astuta Schaus, 1894 PBL	x			x	
Lepasta bractea (Felder, 1874) PBL		x			
Lepasta grammodes Felder, 1874 PBL				x	x
Marthula cynrica Schaus, 1928 PBL			x		
Notoplusia marchiana Schaus, 1928 PBL		x			
Nystalea clotho Thiaucourt, 2002					
Nystalea malga Schaus, 1904 PBL				x	x
Nystalea unguicularis Thiaucourt, 2002					
Nystalea superciliosa Guenée, 1852 PBL		x	x		
Pentobesa maya Thiaucourt, 2008					
Pentobesa xylinoides (Walker, 1866) PBL				x	
Strophocerus albonotatus Druce, 1909 PBL	x			x	
Symmerista meridionalis Thaiucourt, 2007					
Dioptinae					
Brachyglene crocearia (Schaus), 1912					
Dioptis butes (Druce, 1885) USNM					
Dioptis eteocles (Druce, 1885)					
Ephialtias pseudena (Boisduval, 1870)					
Getta turrenti Miller, 2009					
Isostyla ithomeina (Butler, 1872)					
Josia enoides (Boisduval, 1870)					
Josia frigida Druce, 1885					
Josia fusigera Walker, 1864					

Josia integra Walker, 1854					
Josia hyperia (Walker, 1854)					
Josia megaera (Fabricius, 1787) TLS					
Josia sp. CURLA					x
Lyces ariaca (Druce, 1885) USNM					
Lyces tamara (Hering, 1925)					
Oricia truncata Walker, 1854 TL, PBL, CURLA, USNM			x	x	x
Phanoptis cyanomelas C. and R. Felder, 1874 or nr. PBL, CURLA			x		x
Phaeochlaena gyon (Fabricius, 1787) or nr. PBL	x		x		
Phaeochlaena tendinosa Hübner, 1818					
Scotura annulata (Guérin-Méneville), 1844					
Notodontidae (*incertae sedis*)					
Lirimiris guatemalensis Rothchild, 1917 PBL		x	x		x
Lirimiris lignitecta Walker, 1865 or nr. PBL		x			
Lirimiris meridionalis Schaus, 1904 PBL			x		
Pentobesa lignicolor Möschler, 1877 PBL			x		x
EREBIDAE					
Lymantriinae					
Caviria sp. PBL	x	x	x	x	x
Eloria subnuda Walker, 1855 TL					
Terphothrix tibialis (Walker, 1855) TL					
Arctiinae					
Lithosiini					
Areva trigemmis (Hübner, 1827) PBL		x	x		x
Ardonea morio Walker, 1854					
Tuina cingulata (Walker, 1854) TL					
Apistosia judas Hübner, [1819]					
Eudesmia laetifera Walker, 1864 EAPZ					
Eudesmia menea (Drury, 1782) PBL, TLS			x		
Euthyone theodula (Schaus, 1924) PBL			x		
Euthyone grisescens (Schaus 1911) or nr. PBL	x	x	x		
Euthyone simplex (Walker, 1854) TL					
Cisthene polyzona Druce, 1885 PBL		x	x	x	x
Mulona phelina (Druce, 1885) PBL	x	x	x	x	x
Epeiromulona roseata Field, 1952					
Diarhabdosia laudamia (Druce, 1885) PBL	x	x			
Eurylomia cordula (Boisduval, 1870)					
Talara synnephela Dyar, 1916 PBL		x			x
Lycomorphodes sordida (Butler, 1877) PBL			x		x
Lycomorphodes sp. PBL		x	x		x
Balbura fasciata Schaus, 1911 PBL		x	x		x
Balbura intervenata Schaus, 1911 PBL					x
Balbura sp. nr. *dorsisigna* Walker, 1854 PBL		x			x
Agylla pogonoda Hampson, 1900 PBL		x	x		x
Agylla spp. 1-4 PBL	x	x	x	x	x
?*Metalobosia* sp. nr. *ducalis* Schaus, 1911 PBL		x			
Arctiini					
Arctiina					
Virbia birchi (Druce, 1911) or nr. PBL	x	x	x		x

Virbia sp. PBL		x			x
Notarctia proxima (Guérin- Méneville, 1844) EAPZ					
Estigmene acrea Drury PBL					
Hypercompe leucarctiodes (Grote and Robinson, 1967) PBL	x	x	x	x	x
Hypercompe perplexa Schaus, 1911 or nr. PBL	x		x		x
Hypercompe caudata (Walker, 1855)					
Arachnis dilecta (Boisduval, 1870) TL					
*Arachnis aulae*a Geyer, 1837					
Callimorphina					
Utetheisa ornatrix (Linnaeus, 1758) PBL, TLS		x	x	x	
Pericopina					
Calodesma maculifrons (Walker, 1865) TL, PBL, USNM			x	x	x
Hypocrita albimaculata (Druce, 1897) PBL, USNM		x			x
Hypocrita ambigua (Hering, 1925) TL					
Hypocrita arcaei (Druce, 1884) PBL, USNM	x			x	x
Hypocrita excellens (Walker, 1854) EAPZ[A1]					
Hypocrita pylotis (Drury, 1773)					
Composia fidelissima Herrich-Schäffer, 1866					
Chetone histrio Boisduval, 1870 TL[A2]					
Chetone ithomia (Boisduval, 1870) USNM					
Chetone angulosa (Walker, 1854) USNM					
Xenosoma flaviceps (Walker, 1865) USNM					
*Hyalurga sor*a (Boisduval, 1870) PBL, CURLA, USNM		x			x
Hyalurga urioides Schaus, 1910 PBL, USNM		x			
Heliactinidia sitia Schaus, 1910 USNM					
Dysschema lycaste (Klug, 1836) EAPZ, TL form, USNM					
Dysschema sp. PBL			x		
Dysschema aorsa (Boisduval, 1870) USNM					
Dysschema cerealis (Druce, 1884) USNM					
Dysschema leucophaea (Walker, 1854) TLS, PBL, USNM		x	x		x
Dysschema magdala (Boisduval, 1870) USNM, PBL				x	
Dysschema mariamne (Geyer, 1836) USNM					
Phaegopterina					
Parathyris cedonulli (Stoll, 1781) PBL			x		
Robinsonia deiopea Druce, 1895 PBL					x
Robinsonia sabata Druce, 1895					
Idalus dares Druce, 1894 PBL			x		x
Idalus crinis Druce, 1884 PBL					x
Idalus alteria Schaus, 1905 PBL					x
Idalus herois Schaus, 1889 PBL		x	x	x	x
Idalus vitrea (Cramer, 1780) PBL			x		
Phaeomolis lineatus Druce, 1884 or nr. PBL	x	x	x	x	x
Symphlebia lophocampoides Felder, 1874 EAPZ					
Symphlebia underwoodi (Rothschild, 1910) EAPZ					
Amaxia apyga Hampson, 1901 PBL		x	x		
Amaxia pardalis Walker, 1855 PBL		x	x		
Amaxia beata Dognin (1909) PBL					x
Amaxia sp. KC	x				
Evius hippia (Stoll, [1790]) PBL		x	x	x	x

Neritos samos Druce, 1896					
Trichromia atta (Schaus, 1920) PBL	x		x	x	x
Trichromia sp. nr. *cotes* (Druce, 1896) PBL			x		x
Trichromia flavoroseus (Walker, 1855) TL					
Trichromia sp. PBL					x
Parevia gurma Schaus, 1920 PBL			x		x
Rhipha persimilis (Rothschild, 1909) EAPZ					
Rhipha chionoplaga (Dognin, 1913) EAPZ, PBL					x
Cratoplastis diluta Felder, 1874 PBL, EAPZ		x	x	x	x
Gorgonidia buckleyi Druce, 1883 PBL	x		x	x	
Ormetica ataenia (Schaus, 1910) PBL		x		x	x
Ormetica taeniata (Guérin-Méneville, [1844])					
Ormetica sicilia Druce, 1884 PBL			x		x
Ormetica guapisa (Schaus, 1910) or nr. PBL					x
Ormetica goloma (Schaus, 1920) PBL					x
Ormetica orbona (Schaus, 1889) PBL					x
Selenarctia elissa (Schaus, 1892) PBL			x		
Viviennea tegyra (Druce, 1896) PBL		x	x		x
Castrica phalaenoides (Drury, 1773) PBL		x	x		x
Cissura plumbea Hampson, 1901 PBL	x	x	x	x	x
Melese amastris (Druce, 1884) PBL		x	x		
Melese asana (Druce, 1884) PBL			x	x	x
Melese flavimaculata Dognin, 1899 PBL		x	x		x
Pelochyta misera Schaus, 1911 PBL	x				
Elysius conspersus Walker, 1855 PBL		x			
Munona iridescens Schaus, 1894 PBL		x			x
Anaxita drucei Rodriguez 1893 RLMM					
Anaxita decorata Walker, 1855					
Halysidota excellens Walker EAPZ					
Halysidota pectenella Watson, 1980 PBL		x	x	x	
Halysidota grandis (Rothschild, 1909) PBL	x		x		x
Lophocampa annulata Walker EAPZ					
Lophocampa citrina (Sepp, [1843]) or nr. PBL	x	x	x	x	x
Lophocampa catenulata (Hübner, [1812]) or nr. PBL		x		x	x
Lophocampa alternata (Grote, 1867) TLS					
Lophocampa seruba (Herrich-Schäffer, [1855])					
Pseudohemihyalea fallaciosa (Toulgoët, 1997)					
Pseudohemihyalea labeculoides de Toulgoet, 1995					
Pseudohemihyalea porioni de Toulgoet, 1995					
Euchaetes antica (Walker, 1856) TLS					
Pareuchaetes insulata (Walker, 1855) KC, PBL	x		x	x	x
Belemnia inaurata Sulzer, 1776 TLS, PBL, EAPZ		x	x		
Euchromiina					
Homoeocera gigantea (Druce, 1884) EAPZ					
*Sphecosoma felder*i (Druce, 1883)					
*Myrmecopsis strigos*a (Druce, 1884) EAPZ					
Gymnelia sp. nr. *nobilis* Schaus, 1911 PBL					x
Phoenicoprocta sp. *sanguinea* (Walker, 1854) or nr. PBL		x			
Pheia albisigna (Walker, 1854) PBL					x

Loxophlebia masa (Druce, 1889) PBL		x	x		x
Loxophlebia geminata Schaus, 1905 PBL					x
Mesothen pyrrha (Schaus, 1889) PBL					x
Xanthyda xanthosticta (Hampson, 1898) PBL					x
Cosmosoma festiva Walker, 1854 TL					
Cosmosoma braconoides (Walker, 1854) TL					
Cosmosoma intensa (Walker, 1854) TL					
Cosmosoma ruatana (Druce, 1888) TL					
Cosmosoma sectinota Hampson, 1898 PBL	x		x		x
Cosmosoma stibosticta (Butler, 1876) PBL	x	x	x	x	x
Cosmosoma hercyna (Druce, 1884) PBL		x			
Cosmosoma sp. nr. *teuthr*as (Walker, 1854) PBL			x	x	
*Cosmosoma achemo*n (Fabricius, 1781) PBL		x			x
Cosmosoma cingulatum Butler, 1876 PBL					x
Pseudomya melanthoides Schaus, 1920 PBL					x
Saurita temenus (Stoll, [1781]) PBL		x			
Saurita tipulina (Hübner, 1827) PBL		x	x		x
Saurita myrrha Druce, 1884 PBL					x
Saurita fumosa (Schaus, 1912) PBL					x
Psoloptera basifulva Schaus, 1894 PBL			x		x
Dycladia basimacula Schaus, 1924 PBL		x	x		
Dycladia vitrina Rothschild, 1911 PBL		x			x
Syntomeida melanthus (Cramer, [1779])					
Macrocneme lades (Cramer, [1776])					
Macrocneme chrysitis (Guérin-Méneville, 1844)					
Macrocneme auripes (Walker, 1854) TL					
Macrocneme cabimensis Dyar, 1914					
Macrocneme adonis Druce, 1884					
Macrocneme spp. incl. *iole* Druce, 1884 or nr. PBL	x	x	x	x	x
*Chrysocale principali*s (Walker, [1865]) EAPZ					
Poliopastea sp. PBL			x		x
Eunomia colombina (Fabricius, 1793)					
Eunomia latenigra (Butler, 1876) TL					
Horama oedippus (Boisduval, 1870) PBL		x			
Horama plumipes (Drury, 1773) PBL			x	x	x
*Horama panthalo*n (Fabricius, 1793)					
Ctenuchina					
Ctenucha venosa Walker, 1854					
Ctenucha ruficeps Walker, 1854					
Dinia aeagrus (Cramer, [1779]) PBL		x	x		x
Trichura esmeralda (Walker, 1854) TL					
Trichura coarctata (Drury, 1773)					
Trichura druryi Hübner, [1819]					
Ecdemus obscurata Schaus, 1911 PBL	x	x	x		
Eriphioides tractipennis (Butler, 1876)					
Chrysostola augusta Druce (1884) PBL					x
Chrysostola moza (Druce, 1896) PBL				x	x
Episcepsis thetis Linnaeus 1771 or nr. PBL		x			
Episcepsis inornata (Walker, 1856) or nr. PBL	x	x	x		x

Episcepsis lenaeus Cramer, 1870 or nr. PBL	x				x
Episcepsis venata Butler, 1877 PBL					x
Antichloris viridis Druce, 1884 EAPZ					
Antichloris caca Hübner, 1818					
Napata walkeri (Druce, 1889) EAPZ, PBL				x	x
Napata leucotelus Butler, 1876 TL, PBL			x		
Chlorostola interrupta Walker PBL		x			
?*Desmotricha perplexa* (Rothschild, 1912) PBL			x		x
*Cyanopepla arrogan*s (Walker, 1854)					
?*Cyanopepla jalif*a (Boisduval, 1870)					
Aclytia sp. PBL			x		x
Aclytia punctata Butler, 1876 TL, PBL				x	
Aclytia heber (Cramer, 1780) EAPZ, PBL			x	x	x
Aclytia albistriga Schaus, 1910 PBL		x			
Aclytia reducta Rothschild, 1912 or nr. PBL	x	x	x		x
Mydromera notochloris (Boisduval, 1870) CURLA					x
Agyrta dux Walker, 1854 PBL		x			
Ptychotrichos episcepsidis Dyar, 1914 PBL		x			x
Delphyre testacea (Druce, 1884) PBL	x	x	x		x
Delphyre hebes Walker, 1854 TL					
Neacerea rufiventris Schaus, 1894 or nr. PBL					x
Heliura rhodophila (Walker, 1856) PBL, TLS	x	x			x
Heliura tetragramma (Walker, 1854)					
Eucereon atriguttum Druce, 1905 EAPZ					
Eucereon aurantiaca (Rothschild, 1909) PBL			x		
Eucereon latifascia Walker, 1856 PBL					x
Eucereon pilatii Walker, 1854 TL					
Eucereon varium (Walker, 1854) PBL			x		x
Eucereon aroa Schaus, 1894 PBL		x			
Eucereon rosadora Dyar, 1910 PBL		x			x
Eucereon rosa (Walker, 1854) TL					
Eucereon balium Hampson, 1898 TL, PBL			x		x
Eucereon maja Druce, 1884 PBL					x
Eucereon obscurum Möschler, 1872 PBL					x
Eucereon pseudarchias Hampson, 1898					
Correbidia elegans (Druce, 1884) PBL		x	x		x
Correbidia germana Rothschild, 1912 or nr. PBL		x			x
Correbidia undulata (Druce, 1884) PBL		x	x	x	x
Correbidia costinotata Schaus, 1911 or nr. PBL			x		x
Hyaleucerea vulnerata Butler, 1875 PBL		x		x	x
Hyaleucerea gigantea (Druce, 1884) PBL		x			
Herminiinae					
Macrochilo andaca (Druce, 1891) PBL		x			
Macrochilo sp. PBL	x				
Bleptina hydrillalis Guenée, 1854 TLS					
Lascoria sp. PBL		x	x		
Palthis sp. nr. *bizialis* (Walker, 1859) PBL		x			x
Palthis orasiusalis Walker, 1859 TL					

Hypeninae					
Hypena perialis Schaus, 1904 PBL	x				
Hypena porrectalis Fabricius, 1794 TLS					
Hypena subidalis Guenee, 1854					
Hypena sp. PBL		x			
Trauaxa obliqualis Walker, 1866 PBL	x		x		x
Scoliopteryginae					
Anomis hemiscopsis Dyar, 1914 PBL		x			x
Anomis illita Guenée, 1852 TLS					
Anomis editrix Guenée, 1852 TLS, PBL					x
Anomis sublineata (Walker, 1869) TL					
Alabama argillacea (Hübner, 1823) EAPZ					
Calpinae					
Ceroctena amynta (Stoll, 1782) PBL	x	x		x	x
Sosxetra grata Walker, 1862 PBL	x	x	x	x	x
Lephana sp. nr. *tetraphorella* Walker, 1866 PBL		x	x		
Lephana sp. PBL					x
Gonodonta biarmata Guenée, 1852 PBL		x	x		x
Gonodonta bidens Geyer, 1832 PBL		x		x	x
Gonodonta nitidimacula Guenée, 1852 PBL		x			x
Gonodonta parens Guenée, 1852 PBL			x		
Gonodonta pyrgo (Cramer, 1777) PBL		x		x	x
Gonodonta sinaldus Guenée, 1852 PBL	x	x	x	x	x
Gonodonta uxor (Cramer, 1780) PBL		x			
Gonodonta syrna Guenée, 1852 PBL			x		x
Gonodonta indentata (Hampson, 1926) PBL				x	
Gonodonta immacula Guenée, 1852					
Gonodonta sp. PBL					x
Graphigona regina (Guenée, 1852) PBL		x			
Oraesia nobilis Felder and Rogenhofer, 1874 PBL		x			x
Obroatis distincta Butler, 1879 PBL		x	x		
Plusiodonta clavifera (Walker, 1868) TL, PBL		x	x		
Herminodes atrosignata (Walker, 1858) PBL	x	x	x	x	
Eudocima apta (Walker, [1858]) EAPZ					
Eudocima procus (Cramer, 1777) EAPZ					
Dyops chromatophila Walker, 1858 PBL		x			
Dyops dotata (Walker, 1869) TL					
Pseudbarydia severa (Druce, 1889) PBL			x		
Pararcte schneideriana Stoll, 1780 PBL		x	x		
Mazacyla relata (Walker, 1858) PBL		x			
Lepidodes gallopavo Walker, 1856 PBL	x	x			x
Gorgone fellearis Hübner, 1823 PBL		x			
Tautobriga glaucopis (Hampson, 1926) PBL	x				
Tautobriga euspila (Walker, 1869) TL, PBL					x
Oxidercia thaumantis Hampson, 1926 PBL			x		x
Oxidercia toxea (Stoll, 1782) or nr. PBL	x		x		x
***Incertae sedis* (Calpinae)**					
Arabriga bimaculata Walker, 1869 TL					
Azatha retardens Walker, 1858 TL					

Briarda semiplaga Walker, 1859 TL					
Canatha subangulalis (Walker, [1866]) TL					
Leucotela nigripalpis (Walker, [1866]) TL					
Peteroma discisigna (Walker, [1858]) TL					
Hypocalinae					
Hypocala andremona (Stoll, [1781]) PBL, TLS			x		
Goniapteryx servia (Cramer, 1782) PBL					x
Eublemminae					
Eublemma cinnamomea (Herrich-Schäffer, 1868) PBL		x	x		
Phytometrinae					
Mursa phtisialis Guenée, 1854 TLS, PBL		x	x		
Phytometra flacillalis (Walker, 1859) TL					
Cecharismena darconis (Schaus, 1913) PBL	x	x			
Radara aquilalis Schaus, 1916 or nr. PBL		x	x		x
Radara nezeila (Schaus, 1906) PBL		x	x		x
Radara nealcesalis (Walker, 1859) PBL		x			x
Radara zoum (Dyar, 1914) PBL			x		
Radara sp. PBL		x	x		
Isogona natatrix Guenée, 1852 TLS					
Anobinae					
Anoba pohli (Felder and Rogenhofer, 1874) PBL		x	x		
Baniana ostia Druce, 1898 PBL			x		
Baniana suggesta (Walker, 1858) TL					
Baniana ypita Schaus, 1901 PBL			x		
Erebinae					
Thermesiini					
Hemeroblemma opigena (Drury, 1773) PBL, TLS			x		x
Hemeroblemma acron (Cramer, 1779) PBL			x		x
Hemeroblemma dolosa Hübner, [1823] PBL					x
Hemeroblemma mexicana (Guenee, 1852)					
Hemeroblemma sp. PBL					x
Thermesia sobria Walker, 1865 TL					
Letis buteo Guenée, 1852 PBL	x	x	x	x	x
Letis herilia (Stoll, 1780) PBL		x			x
Letis mycerina (Cramer, 1777)					
Thysania agrippina (Cramer, 1776) PBL, EAPZ			x		
Ascalapha odorata (Linnaeus, 1758) PBL, EAPZ		x	x		
Catocalini					
Argidia sp. nr. *hypoxantha* (Hampson, 1926) PBL					x
Hemicephalis agenoria (Druce, 1890) PBL			x		
Ramphia albizona (Latreille, 1817) PBL			x		x
Hypogrammodes balma Guenée, 1852 PBL			x		x
Metipotini					
Melipotis perpendicularis (Guenée, 1852) EAPZ, TLS					
Melipotis fasciolaris (Hübner, 1825) PBL			x		
Melipotis descreta (Walker, [1858]) TL					
Melipotis famelica (Guenée, 1852) TLS, PBL			x		
Melipotis nigrobasis (Guenée, 1852) PBL					x
Melipotis sp. PBL			x		

Orodesma schausi (Druce, 1890) PBL		x			
Euclidiini					
Ptichodis bistrigata Hübner, 1818					
Celiptera sp. PBL		x	x		x
Mocis latipes (Guenée, 1852) EAPZ, PBL		x	x		x
Mocis marcida (Guenée, 1852) EAPZ					
Mocis texana (Morrison, 1875) EAPZ					
Mocis diffluens (Guenée, 1852) TLS					
Mocis disseverans Walker, 1858 TLS					
Mocis dyndima (Stoll, 1782) PBL					x
Poaphilini					
Dysgonia expediens (Walker, 1858) PBL			x	x	x
Dysgonia purpurata Kaye, 1901 PBL			x		x
Ophiusini					
Lesmone formularis (Geyer, 1837) or nr. PBL		x			
Epidromia tinctifera (Walker, 1858) TL					
Epidromia sp. *pannosa* Guenée, 1852 or nr. KC	x				
Itomia lignaris Hubner, 1823					
Itomia multilinea Walker, 1858					
Itomia opistographa Guenée, 1852 or nr. PBL			x		
Helia celita (Schaus, 1912) or nr. PBL	x		x		
Helia argentipes (Walker, 1869) TL					
Selenisa sueroides (Guenée, 1852) PBL	x		x	x	x
Euclystis insana (Guenée, 1852) PBL, TLS			x		
Euclystis plusiodes (Walker, 1858) PBL		x		x	
Coenipeta bibitrix (Hübner, 1823) EAPZ, PBL			x		
Coenipeta hemiplagia Felder and Rogenhoffer, 1874 EAPZ					
Coenipeta damonia (Stoll, 1782) or nr. PBL			x		
Coenipeta tanais (Cramer,1776) PBL					x
Coenipeta sp. nr. *medalba* Schaus 1906 PBL					x
Coenipeta phasis Cramer, 1977 or nr. PBL					x
Metria endopolia (Dyar, 1917) or nr. PBL					x
Metria aperta (Walker, [1858]) PBL			x		
Metria simplicior (Walker, [1858]) TL					
Metria spp. 1-4 PBL		x	x		x
Kakopoda progenies (Guenée, 1852) TLS					
Toxonprucha diffundens Walker, 1858 TLS					
Homoptera brevipennis Walker, 1869 TL					
Ophisma minna Guenée, 1852 PBL		x			
Ophisma tropicalis Guenée, 1852 PBL			x	x	x
Achaea lienardi Boisduval, 1833 PBL			x		
Amolita sp. 1 PBL					x
Amolita sp. 2 PBL		x			x
***Incertae sedis* (Erebinae)**					
Calyptis semicuprea (Walker, 1857) PBL			x		x
Catephiodes trinidadensis (Kaye, 1901) PBL		x			
Coenobela paucula (Walker, 1858) TL					
Nymbis iniqua Guenée, 1852 TLS					
Perasia helvina (Guenée, 1852)					

Ptichodes basilans (Guenée, 1852)					
Eulepidotinae					
Eulepidotini					
Eulepidotis addens (Walker, 1858) EAPZ, PBL					x
Eulepidotis alabastraria Hübner, 1823 PBL		x	x		x
Eulepidotis electa Dyar, 1914 PBL			x	x	x
Eulepidotis carcistola Hampson, 1926 PBL			x		x
Eulepidotis hermura Schaus, 1898 PBL		x	x		x
Eulepidotis inclyta Fabricius, 1997 PBL		x	x	x	
Eulepidotis juncida Guenée, 1852 TLS, PBL					x
Eulepidotis modestula (Herrich-Schäffer, 1869) PBL	x				x
Eulepidotis perducens (Walker, 1858) PBL		x	x	x	x
Eulepidotis punctilinea Schaus, 1921 PBL		x	x	x	x
Eulepidotis testaceiceps Felder, 1874 PBL		x	x		x
Eulepidotis suppura Dyar, 1914 EAPZ					
Eulepidotis sp. PBL			x		
Obrima pyraloides Walker, 1865 TL					
Panopodini					
Anticarsia gemmatalis Hübner, 1818 EAPZ, TLS, PBL				x	
Anticarsia anisospila (Walker, 1869) TL					
Azeta rhodogaster Guenée, 1852 EAPZ, PBL	x	x	x	x	x
Azeta ceramina Hübner, [1821] TLS					
Azeta signans Walker EAPZ					
Athyrma adjutrix auth. not (Cramer, 1780) PBL					x
Eulepidotinae (*incertae sedis*)					
Antiblemma amarga (Schaus, 1911) PBL		x	x		
Antiblemma hamilcar (Schaus, 1914) PBL	x	x	x		x
Antiblemma incarnans Felder and Rogenhoffer, 1874 PBL	x	x		x	
Antiblemma imitans (Walker, 1858) TL					
Antiblemma memoranda Schaus, 1911 PBL		x	x	x	
Antiblemma neptis (Cramer, 1779) PBL					x
Antiblemma rufinans Guenée, 1852 TLS					
Antiblemma sterope (Stoll, 1780)					
Antiblemma sufficiens (Walker, 1858) TL					
Antiblemma sp. PBL	x	x	x		x
Epitausa atriplaga (Walker, 1858) PBL			x		
Litoprosopus confligens (Walker, [1858]) TL					
EUTELIIDAE					
Euteliinae					
Paectes abrostoloides Guenée, 1852 TLS					
Paectes albescens Hampson, 1912 TL					
Paectes fovifera Hampson, 1912 PBL		x	x		
Paectes fuscescens (Walker, 1855) TL					
Paectes glauca (Hampson, 1905) PBL			x		
Paectes lunodes Guenée, 1852 TL					
Eutelia auratrix Walker, 1858 PBL					x
Eutelia sp. PBL		x			
NOLIDAE					
*Meganola leucostol*a (Hampson, 1900) PBL	x	x	x		x

Nola turbana Schaus, 1921 or nr. PBL			x		
Neostictoptera nigropuncta Druce, 1900 or nr. PBL	x				
Iscadia argentea (Walker, 1869)					
Iscadia furcifera (Walker, 1869) TLS					
NOCTUIDAE					
Plusiinae					
Argyrogrammatini					
Argyrogramma verruca (Fabricius, 1794) PBL			x		x
Trichoplusia ni (Hübner, [1803]) EAPZ					
Chrysodeixis includens (Walker, [1858]) EAPZ					
Plusiini					
Autoplusia egena (Guenée, 1852) EAPZ					
Bagisarinae					
Bagisara patula (Druce, 1898) PBL		x	x		x
Bagisara repanda (Fabricius, 1793) PBL		x			
Amyna octo Guenée, 1852 TLS					
Cydosiinae					
Cydosia curvinella Guenée, 1879 EAPZ, PBL	x		x	x	x
Cydosia phaedra Druce, 1897 TL					
Eustrotiinae					
Tripudia furcula Pogue, 2009					
Marimatha botyoides (Guenée, 1852) PBL, TLS		x		x	x
Marimatha sp. PBL	x	x			x
Acontiinae					
Acontia tetragona Walker, [1858] TL					
Acidaliodes celenna Druce, 1892 PBL		x			
Diphtherinae					
Diphthera festiva (Fabricius, 1775) EAPZ, PBL		x		x	x
Acronictinae					
Argyrosticta ditissima (Walker, [1858]) PBL			x	x	x
Argyrosticta vauaurea (Hampson, 1908) PBL			x		x
Antachara rotundata Walker, 1858 PBL	x		x	x	x
Amphipyrinae					
Metaponpneumata rogenhoferi Möschler, 1890 EAPZ					
Cropia connecta (Smith, 1894) EAPZ					
Cropia philia (Druce, 1889) PBL			x		
Oncocnemidinae					
Neogalea sunia (Guenée, 1852)					
Agaristinae					
Darceta falcata (Druce, 1883) PBL	x				
Darceta proserpina (Stoll, [1782]) PBL			x		
Epithisanotia sanctijohannis Stephens, 1850 PBL			x		
Seirocastnia amalthea (Dalman, 1823)					
Vespola caerulifera (Walker, 1867) PBL			x		
Condicinae					
Condicini					
Condica cupienta (Cramer, 1780) PBL		x			x
Condica mobilis Walker, [1857] TLS					
Condica subaurea (Guenée, 1852)					

Condica subornata (Walker, 1865) or nr. PBL		x	x		
Condica mimica (Hampson, 1908) PBL	x	x	x	x	x
Condica imitata (Druce, 1891) PBL			x		x
Condica sutor (Guenée, 1852) PBL	x		x		
Condica sp. 1 PBL	x	x	x		x
Condica sp. 2 PBL		x			
Leuconyctini					
Diastema tigris Guenée, 1852 PBL				x	x
Micrathetis dasarada (Druce, 1898) PBL	x	x			
Micrathetis triplex (Walker, 1857) TL					
Heliothinae					
Helicoverpa zea (Boddie, 1850) EAPZ					
Heliothis virescens (Fabricius, 1777) EAPZ					
Eriopinae					
Callopistria rivularis (Walker, [1858]) PBL		x	x		x
Callopistria floridensis (Guenée, 1852) PBL		x	x	x	x
Noctuinae					
Phosphilini					
Spodoptera exigua (Hübner, [1808]) EAPZ					
Spodoptera frugiperda (J.E. Smith, 1797) EAPZ					
Spodoptera ornithogalli (Guenée, 1852) EAPZ					
Spodoptera latifascia (Walker, 1856) EAPZ					
Spodoptera dolichos (Fabricius, 1794) EAPZ					
Spodoptera eridania (Cramer, 1784) EAPZ					
Spodoptera albula (Walker, 1857) TL, EAPZ					
Spodoptera spp. PBL			x		x
Elaphriini					
Elaphria deltoides (Möschler, 1880) PBL			x		x
Elaphria agrotina (Guenée, 1852) PBL		x	x		x
Elaphria sp. nr. *perigeana* (Schaus, 1911) PBL		x			x
Elaphria sp. 1 PBL			x		
Elaphria sp. 2 PBL					x
Gonodes liquida (Möschler, 1886) PBL					x
Dypterygiini					
Neophaenis respondens (Walker, 1858)					
Xylenini					
Xylina subcostalis Walker, 1869 TL					
Hadenini					
Stauropides persimilis Hampson, 1909 PBL		x			x
Leucaniini					
Mythimna unipuncta (Haworth, 1809) EAPZ					
Leucania inconspicua Herrich-Schäffer, 1868 PBL		x			
Leucania multilinea Walker, 1856 TLS					
Noctuini					
Anicla infecta (Ochsenheimer, 1816) EAPZ, TLS					
Agrotis ipsilon (Hufnagel, 1766) EAPZ					
Agrotis subterranea (Fabricius, 1794) EAPZ					
Stictopterinae					
Nagara vitrea (Guenée, 1852) PBL			x	x	

--- HESPERIOIDEA ---					
HESPERIIDAE					
Eudaminae					
Phocides polybius lilea (Reakirt, [1867]) EAPZ, RLMM					
Phocides distans licinus (Möschler, 1879)					
Phocides metrodorus nigrescens E. Bell, 1938 RLMM					
Phocides thermus thermus (Mabille, 1883)					
Phocides p. pigmalion (Cramer, 1779)					
Tarsoctenus corytus gaudialis (Hewsitson, 1876) RLMM					
Phanus vitreus (Stoll, 1781)					
Phanus obscurior obscurior Kaye, 1925 RLMM					
Phanus marshallii (Kirby, 1880)					
Udranomia kikkawai (Weeks, 1906) PBL			x		
Drephalys oria Evans, 1952 TL					
Drephalys oriander (Hewitson, 1867)					
Drephalys alcmon (Cramer, 1779)					
Hyalothyrus neleus pemphigargyra (Mabille, 1888) PBL, RLMM		x			
Entheus crux Steinhauser, 1989 RLMM					
Proteides mercurius mercurius (Fabricius, 1787)					
Epargyreus exadeus cruza Evans, 1952					
Epargyreus aspina Evans, 1952 PBL	x	x			
Epargyreus spina spina Evans, 1952					
Epargyreus clavicornis gaumeri Godman and Salvin, 1893 TL					
Polygonus savigny savigny (Latreille, [1824]) PBL, RLMM	x	x			
Chioides albofasciatus (Hewitson, 1867)					
Chioides catillus albius Evans, 1952 RLMM					
Chioides zilpa (Butler, 1872)					
Aguna asander asander (Hewitson, 1867)					
Aguna claxon Evans, 1952					
Aguna aurunce hypozonius (Plötz, 1880) RLMM, PBL					x
Aguna panama Austin and Mielke, 1998					
Typhedanus undulatus (Hewitson, 1867) PBL, ER, RLMM					x
Typhedanus ampyx (Godman and Salvin, 1893)					
Polythrix octomaculata (Sepp, [1844]) CURLA					x
Polythrix asine (Hewitson, 1867) PBL, EAPZ, RLMM					
Polythrix metallescens (Mabille, 1888) EAPZ					
Cephise aelius (Plötz, 1880) PBL		x			
Codatractus c. carlos Evans, 1952 TL, RLMM					
Codatractus a. alcaeus (Hewitson, 1867)					
Codatractus bryaxis (Hewitson, 1867) RLMM					
Codatractus cyda (Godman, 1901) TL					
Ridens mephitis (Hewitson, 1876)					
Urbanus p. proteus (Linnaeus, 1758) PBL, CURLA, RLMM		x			
Urbanus viterboana (Ehrmann, 1907)					
Urbanus belli (Hayward, 1935) PBL	x		x		
Urbanus pronta Evans, 1952 TL					
Urbanus esmeraldus (Butler, 1877) PBL	x				
Urbanus d. dorantes (Stoll, 1790) PBL	x		x	x	
Urbanus procne (Plötz, 1881) PBL, RLMM	x				

Urbanus simplicius (Stoll, 1790) PBL, RLMM	x	x	x	x	x
Urbanus teleus (Hübner, 1821) PBL, CULA		x		x	x
Urbanus tanna Evans, 1952 PBL		x	x	x	
Urbanus d. doryssus (Swainson, 1831) EAPZ, RLMM					
Urbanus a. albimargo (Mabille, 1875) EAPZ, RLMM					
Astraptes talus (Cramer, 1777) EAPZ, RLMM					
Astraptes "fulgerator azul" (Reakirt, [1867]) Complex PBL					x
Astraptes tucuti (R. Williams, 1927) RLMM					
Astraptes brevicauda (Plötz, 1886)					
Astraptes e. egregius (Butler, 1870)					
Astraptes enotrus (Stoll, 1781)					
Astraptes janeira (Schaus, 1902) PBL, RLMM			x		x
Astraptes alardus latia Evans, 1952 RLMM, PBL			x	x	
Astraptes alector hopfferi (Plötz, 1881) PBL, RLMM				x	
Astraptes chiriquensis chiriquensis (Staudinger, 1876)					
Astraptes weymeri (Plötz, 1882) PBL				x	
Astraptes anaphus annetta Evans, 1952 PBL					x
Astraptes phalaecus (Godman and Salvin, 1893) PBL		x			
Narcosius parisi helen (Evans, 1952) TL					
Narcosius c. colossus (Herrich-Schäffer, 1869)					
Narcosius nazaraeus Steinhauser, 1986					
Autochton vectilucis (Butler, 1872)					
Autochton neis (Geyer, 1832) RLMM, PBL					x
Autochton longipennis (Plötz, 1882) PBL, CURLA		x	x	x	x
Autochton zarex (Hübner, 1818) PBL, RLMM	x				
Autochton bipunctatus (Gmelin, 1790)					
Achalarus a. albociliatus (Mabille, 1877) RLMM					
Achalarus toxeus (Plötz, 1882) PBL					x
Thessia jalapus (Plötz, 1881) PBL					x
Cabares p. potrillo (Lucas, 1857) RLMM					
Spathilepia clonius (Cramer, 1775) PBL	x		x		x
Cogia c. cajeta (Herrich-Schäffer, 1869) ER					x
Cogia calchas (Herrich-Schäffer, 1869) PBL, ER, CURLA, RLMM		x	x		x
Cogia c. caicus (Herrich-Schäffer, 1869) RLMM					
Telemiades avitus (Stoll, 1781)					
Telemiades oiclus (Mabille, 1889)					
Telemiades megallus Mabille, 1888					
Telemiades fides Bell, 1949					
Bungalotis erythus (Cramer, 1775) RLMM, PBL			x		
Bungalotis midas (Cramer, 1775) PBL					x
Bungalotis astylos (Cramer, 1780) PBL	x	x			x
Bungalotis q. quadratum (Sepp, [1845]) RLMM					
Nicephellus nicephorus (Hewitson, 1876)					
Dyscophellus diaphorus (Magille and Boullet, 1912) PBL					x
Dyscophellus phraxanor lama Evans, 1952 PBL	x				x
Dyscophellus ramon Evans, 1952 PBL, RLMM					x
Nascus phocus (Cramer, 1777) PBL, RLMM	x				
Nascus solon corilla Evans, 1952					
Pseudonascus paulliniae (Sepp, [1842]) EAPZ, RLMM					

Porphyrogenes zohra (Möschler, 1879)					
Porphyrogenes sula (Williams and Bell, 1940) TL					
Porphyrogenes passalus (Herrich-Schäffer, 1869) PBL				x	
Porphyrogenes virgatus (Mabille, 1888)					
Pyrginae					
Myscelus amystis hages Godman and Salvin, 1893					
Passova gellias (Godman and Salvin, 1893)					
Pyrrhopyge zenodorus Godman and Salvin, 1893 RLMM					
Chalypyge chalybea chloris (Evans, 1951) EAPZ					
Yanguna cosyra (H. Druce, 1875)					
Melanopyge erythrosticta (Godman and Salvin, 1879)					
Elbella scylla (Ménétriés, 1855) EAPZ					
Elbella p. patrobas (Hewitson, 1857)					
Mysoria barcastus ambigua (Mabille and Boullet, 1908) TL					
Celaenorrhinus monartus (Plötz, 1884) RLMM					
Celaenorrhinus fritzgaertneri (Bailey, 1880)					
Celaenorrhinus stola Evans, 1952					
Celaenorrhinus c. cynapes (Hewitson, 1870)					
Arteurotia t. tractipennis Butler and H. Druce, 1872					
Polyctor enops (Godman and Salvin, 1894)					
Nisoniades godma Evans, 1953					
Nisoniades rubescens (Möschler, 1877)					
Nisoniades ephora (Herrich-Schäffer, 1870) PBL		x			
Nisoniades macarius (Herrich-Schäffer, 1870)					
Nisoniades castolus (Hewitson, 1878)					
Pachyneuria licisca (Plötz, 1882) PBL, RLMM	x		x		
Pellicia arina Evans, 1953 RLMM					
Pellicia d. dimidiata Herrich-Schäffer, 1870 PBL, RLMM			x		
Noctuana lactifera bipuncta (Plötz, 1884)					
Noctuana stator (Godman and Salvin, 1899)					
Cyclosemia anastomosis Mabille, 1878 PBL			x		
Cyclosemia pedro R. Williams and E. Bell, 1940 TL					
Gorgopas c. chlorocephala (Herrich-Schäffer, 1870) CURLA		x			
Bolla cylindus (Godman and Salvin, 1896)					
Bolla cupreiceps (Mabille, 1891) TL, PBL, RLMM			x		
Bolla imbras (Godman and Salvin, 1896) [= *pullata*] PBL	x	x			
Bolla clytius (Godman and Salvin, 1897) PBL					x
Staphylus vulgata (Möschler, 1879) PBL	x	x			
Staphylus ascalaphus (Staudinger, 1876) PBL			x		
Staphylus azteca (Scudder, 1872) TLS, PBL		x			x
Gorgythion begga pyralina (Möschler, 1877) PBL	x	x	x		
Gorgythion vox Evans, 1953					
Sostrata nordica Evans, 1953 PBL, RLMM		x	x		
Mylon lassia (Hewitson, 1868)					
Mylon maimon (Fabricius, 1775) PBL			x		
Mylon pelopidas (Fabricius, 1793)					
Mylon jason (Ehrmann, 1907)					
Timochares t. trifasciata (Hewitson, 1868) RLMM, PBL					x
Anastrus s. sempiternus (Butler and H. Druce, 1872) PBL, RLMM			x	x	

Anastrus t. tolimus (Plötz, 1884) PBL, RLMM			x		
Anastrus petius peto Evans, 1953					
Anastrus n. neaeris (Möschler, 1879) RLMM					
Tosta platypterus (Mabille, 1895) TL					
Ebrietas a. anacreon (Staudinger, 1876) PBL, EAPZ			x		x
Ebrietas evanidus Mabille, 1898					
Helias cama Evans, 1953 PBL, RLMM	x	x	x	x	x
Camptopleura theramenes Mabille, 1877					
Cycloglypha t. thrasibulus (Fabricius, 1793) RLMM, PBL				x	
Theagenes aegides (Herrich-Schäffer, 1869) RLMM					
Chiomara g. georgina (Reakirt, 1868) ER, RLMM					x
Chiomara mithrax (Möschler, 1879)					
Gesta invisus (Butler and H. Druce, 1872) PBL, RLMM					x
Erynnis tristis tatius (W. H. Edwards, 1883)					
Erynnis funeralis (Scudder and Burgess, 1870) RLMM					
Aethilla lavochrea Butler, 1872					
Aethilla e. echina Hewitson, 1870					
Achlyodes busirus heros Ehrmann, 1909 PBL, RLMM			x		x
Achlyodes pallida (R. Felder, 1869) RLMM					
Eantis thraso (Hübner, [1807]) PBL, CURLA, RLMM			x		x
Doberes anticus (Plötz, 1884) RLMM					
Ouleus salvina Evans, 1953 PBL, CURLA, RLMM	x	x	x	x	x
Zera h. hyacinthinus (Mabille, 1877)					
Zera sp. EAPZ					
Quadrus cerialis (Stoll, 1782) PBL, RLMM	x		x	x	x
Quadrus c. contubernalis (Mabille, 1883) PBL, RLMM	x		x		x
Quadrus l. lugubris (R. Felder, 1869)					
Pythonides jovianus amaryllis Staudinger, 1876 RLMM, PBL			x	x	
Pythonides grandis assecla Mabille, 1883					
Pythonides proxenus (Godman and Salvin, 1895) RLMM					
Atarnes sallei (C. and R. Felder, 1867)					
Paches loxus gloriosus Röber, 1925 RLMM					
Carrhenes f. fuscescens (Mabille, 1891) TL					
Carrhenes calidius Godman and Salvin, 1895					
Carrhenes c. canescens (R. Felder, 1869) PBL			x		x
Xenophanes tryxus (Cramer, 1780) PBL, RLMM	x	x	x	x	
Antigonus nearchus (Latreille, 1817) RLMM, PBL				x	x
Antigonus erosus (Hübner, [1812]) PBL, EAPZ, RLMM					x
Antigonus corrosus Mabille, 1878 RLMM					
Zopyrion sandace Godman and Salvin, 1896 ER					x
Anisochoria bacchus Evans, 1953					
Pyrgus adepta Plötz, 1884, ER, EAPZ, RLMM					x
Pyrgus oileus (Linnaeus, 1767) PBL, CA, EAPZ, RLMM	x	x	x	x	x
Heliopetes l. laviana (Hewitson, 1868) RLMM					
Heliopetes m. macaira (Reakirt, [1867])					
Heliopetes arsalte (Linnaeus, 1758) PBL, EAPZ	x	x	x	x	x
Heliopetes alana (Reakirt, 1868) RLMM					
Hesperiinae					
Perichares adela (Hewitson, 1867) PBL, EAPZ, RLMM					x

Perichares aurina Evans, 1955					
Orses cynisca (Swainson, 1821)					
Ancyloxypha arene (W. H. Edwards, 1871) EAPZ					
Copaeodes minima (W. H. Edwards, 1870) ER					x
Argon lota (Hewitson, 1877)					
Talides sergestus (Cramer, 1775)					
Talides cantra Evans, 1955					
Tromba xanthura (Godman, 1901) PBL, RLMM				x	
Carystus p. phorcus (Cramer, 1777) RLMM					
Cobalus fidicula (Hewitson, 1877) RLMM					
Dubiella fiscella belpa Evans, 1955					
Damas clavus (Herrich-Schäffer, 1869) PBL					x
Carystoides basoches (Latreille, [1824])					
Carystoides lila Evans, 1955					
Carystoides hondura Evans, 1955 TL					
Lychnuchoides saptine (Godman and Salvin, 1879) RLMM					
Calpodes ethlius (Stoll, 1782) RLMM, PBL			x		
Panoquina ocola (W. H. Edwards, 1863) RLMM					
Panoquina hecebolus (Scudder, 1872) PBL, RLMM		x	x		x
Panoquina lucas (Fabricius, 1793) EAPZ, CURLA, RLMM					x
Panoquina fusina viola Evans, 1955					
Panoquina p. pauper (Mabille, 1878)				x	
Panoquina evadnes (Stoll, 1781)					
Zenis minos (Latreille, [1824])					
Saliana triangularis (Kaye, 1914) RLMM, EAPZ, PBL				x	
Saliana e. esperi Evans, 1955					
Saliana antoninus (Latreille, [1824])					
Saliana longirostris (Sepp, [1840])					
Saliana s. saladin Evans, 1955					
Thracides phidon (Cramer, 1779)					
Thracides arcalaus (Stoll, 1782)					
Aides dysoni Godman, 1900 TL					
Aides brino (Stoll, 1781)					
Neoxeniades s. seron (Godman, 1901) TL					
Neoxeniades luda (Hewitson, 1877)					
Aroma aroma (Hewitson, 1867) RLMM					
Falga sciras Godman, 1901 TL					
Synapte pecta Evans, 1955 PBL	x	x	x	x	
Synapte s. salenus (Mabille, 1893)					
Anthoptus epictetus (Fabricius, 1793) PBL, CURLA, RLMM		x	x	x	x
Anthoptus insignis (Plötz, 1882)					
Corticea corticea (Plötz, 1882) PBL					x
Corticea l. lysias (Plötz, 1883) RLMM					
Mnaseas bicolor (Mabille, 1889) TL					
Zariaspes mys (Hübner, [1808]) RLMM					
Callimormus r. radiola (Mabille, 1878) PBL, RLMM	x	x	x	x	x
Callimormus juventus Scudder, 1872 PBL			x		
Callimormus saturnus (Herrich-Schäffer, 1869) PBL, CURLA		x	x		x
Mnasicles geta Godman, 1901					

Remella remus (Fabricius, 1798)					
Remella vopiscus (Herrich-Schäffer, 1869) PBL		x	x	x	x
Eutocus facilis (Plötz, 1884) PBL		x		x	
Eutocus v. vetulus (Mabille, 1883) PBL		x			
Eprius veleda veleda (Godman, 1900) PBL	x	x	x	x	x
Methionopsis ina (Plötz, 1882) PBL			x		x
Methionopsis typhon Godman, 1901 PBL		x			
Phanes aletes (Geyer, 1832)					
Monca crispinus (Plötz, 1882) PBL			x		
Nastra julia (H. Freeman, 1945)					
Nastra l. leucone (Godman, 1900)					
Cymaenes tripunctus theogenis (Capronnier, 1874)					
Cymaenes trebius (Mabille, 1891) PBL, CA	x	x	x		
Cymaenes fraus (Godman, 1900)					
Vehilius stictomenes illudens (Mabille, 1891) TL, PBL	x	x	x		x
Vehilius inca (Scudder, 1872) PBL		x			
Mnasilus allubita (Butler, 1877) PBL			x		
Mnasitheus chrysophrys (Mabille, 1891)					
Mnasitheus cephoides Hayward, 1943					
Parphorus s. storax (Mabille, 1891) PBL, CURLA		x			x
Papias dictys Godman, 1900 PBL	x	x			
Papias subcostulata (Herrich-Schäffer, 1870) PBL	x				
Cobalopsis nero (Herrich-Schäffer, 1869) PBL, RLMM	x	x			x
Lerema accius (J. E. Smith, 1797) PBL	x				
Lerema liris Evans, 1955 PBL	x				x
Morys valda Evans, 1955					
Morys micythus (Godman, 1900) PBL		x	x		
Morys lyde (Godman, 1900) PBL, CURLA	x	x	x		x
Niconiades incomptus Austin, 1997					
Niconiades nikko Hayward, 1948 PBL			x		
Niconiades viridis vista Evans, 1955					
Vettius lafrenaye pica (Herrich-Schäffer, 1869) RLMM					
Vettius aurelius (Plötz, 1882) PBL, CURLA, RLMM		x	x		
Vettius fantasos (Cramer, 1780)					
Vettius onaca Evans, 1955					
Paracarystus hypargyra (Herrich-Schäffer, 1869) RLMM					
Thoon modius (Mabille, 1889)					
Justinia sp. PBL	x				
Eutychide complana (Herrich-Schäffer, 1869)					
Eutychide paria (Plötz, 1882)					
Eutychide asema (Mabille, 1891) TL					
Naevolus orius (Mabille, 1883)					
Enosis i. immaculata (Hewitson, 1868)					
Vertica verticalis coatepeca (Schaus, 1902)					
Rhinthon osca (Plötz, 1882)					
Hylephila p. phyleus (Drury, 1773) ER, RLMM					x
Polites subreticulata (Plötz, 1883) TLS, ER					x
Polites vibex praeceps (Scudder, 1872) EAPZ, RLMM, ER					x
Wallengrenia o. otho (J. E. Smith, 1797)					

Wallengrenia otho clavus (Erichson, [1849]) PBL		x			
Pompeius pompeius (Latreille, [1824]) PBL, RLMM			x		x
Atalopedes campestris huron (W. H. Edwards, 1863) RLMM					
Poanes zabulon (Boisduval and Le Conte, [1837]) RLMM					
Anatrytone potosiensis (H. Freeman, 1969)					
Anatrytone mella (Godman, 1900)					
Quasimellana eulogius (Plötz, 1882)					
Quasimellana myron (Godman, 1900)					
Euphyes peneia (Godman, 1900)					
Euphyes ampa Evans, 1955 TL					
Metron zimra (Hewitson, 1877)					
Quinta cannae (Herrich-Schäffer, 1869) PBL					x
Cynea irma (Möschler, 1879) RLMM					
Cynea diluta (Herrich-Schäffer, 1869) PBL, RLMM	x	x	x	x	x
Cynea cynea (Hewitson, 1876) PBL		x			
Conga chydaea (Butler, 1877) PBL		x	x	x	x
Decinea decinea derisor (Mabille, 1891) PBL	x				x
Tirynthia conflua (Herrich-Schäffer, 1869) PBL	x				
Nyctelius n. nyctelius (Latreille, [1824]) ER, EAPZ, RLMM					x
Thespieus dalman (Latreille, [1824]) PBL					
Vacerra litana (Hewitson, 1866) PBL		x			x
Xeniades o. orchamus (Cramer, 1777) PBL					x
--- PAPILIONOIDEA ---					
PAPILIONIDAE					
Parides eurimedes mylotes (H. Bates, 1861) PBL, RLMM, EAPZ	x	x	x	x	x
Parides i. iphidamas (Fabricius, 1793) PBL, RLMM, EAPZ	x			x	
Parides c. childrenae (Gray, 1832) PBL, RLMM, EAPZ	x	x	x	x	x
Parides sesostris zestos (Gray, [1853]) TL					
Parides panares lycimenes (Boisduval, 1870) PBL, RLMM, EAPZ			x		
Parides erathalion polyzelus (C. and R. Felder, 1865) PBL, RLMM, EAPZ		x	x	x	
Parides montezuma (Westwood, 1842) RLMM, EAPZ					
Parides photinus (Doubleday, 1844) RLMM, EAPZ					
Battus p. polydamas (Linnaeus, 1758) PBL, RLMM, EAPZ		x	x	x	
Battus laodamas copanae (Reakirt, 1863)					
Battus ingenuus (Dyar, 1907), PBL, RLMM			x		
Battus lycidas (Cramer, 1777)					
Eurytides e. epidaus (Doubleday, 1846) EAPZ					
Eurytides p. philolaus (Boisduval, 1836) RLMM, EAPZ					
Eurytides agesilaus neosilaus (Höpffer, 1865) EAPZ					
Eurytides c. calliste (H. Bates, 1864) RLMM, EAPZ					
Eurytides thyastes marchandii (Boisduval, 1836) RLMM, EAPZ					
Eurytides salvini (H. Bates, 1864)					
Eurytides m. macrosilaus (Gray, [1853]) TL					
Eurytides dioxippus lancandones (H. Bates, 1864)					
Mimoides t. thymbraeus (Boisduval, 1836) RLMM					
Mimoides ilus branchus (Doubleday, 1846) TL, PBL, RLMM, EAPZ			x		
Mimoides p. phaon (Boisduval, 1836) RLMM, EAPZ					
Papilio polyxenes asterius (Stoll, 1782) EAPZ					
Papilio e. erostratus Westwood, 1847 RLMM					

Papilio garamas electryon H. Bates, 1864					
Papilio v. victorinus E. Doubleday, 1844 RLMM					
Papilio v. vulneratus Butler, 1872					
Papilio birchallii bryki Strand, 1930 RLMM					
Heraclides thoas autocles (Rothschild and Jordan, 1906) PBL, CA, RLMM, EAPZ	x	x	x	x	
Heraclides cresphontes (Cramer, 1777)					
Heraclides astyalus pallas (G. Gray, [1853]) PBL	x	x			
Heraclides ornythion (Boisduval, 1836) EAPZ					
Heraclides androgeus epidaurus (Godman and Salvin, 1890) EAPZ					
Heraclides anchisiades idaeus (Fabricius, 1793) PBL, EAPZ			x		
Heraclides paeon thrason (C. and R. Felder, 1865)					
Heraclides torquatus tolmides (Godman and Salvin, 1890)					
PIERIDAE					
Dismorphiinae					
Pseudopieris nehemia francisca Lamas, 1979 TL					
Dismorphia amphione praxinoe (Doubleday, 1844) PBL, RLMM, EAPZ				x	
Dismorpha crisia steinhauseri J. and R. G. de la Maza, 1984 RLMM, EAPZ					
Dismorphia theucharila fortunata (Lucas, 1854) PBL, RLMM	x				
Enantia a. albania (H. Bates, 1864)					
Enantia jethys (Boisduval, 1836)					
Enantia lina marion Godman and Salvin 1889					
Lieinix nemesis atthis (Doubleday, 1842) RLMM, EAPZ					
Coliadinae					
Nathalis i. iole Boisduval, 1836 EAPZ					
Eurema albula celata (R. Felder, 1869) PBL, CURLA, CA, RLMM, EAPZ			x	x	
Eurema agave millerorum Llorente and Luis, 1987					
Eurema daira eugenia (Wallengren, 1860) PBL, CA, RLMM, EAPZ			x	x	
Eurema x. xanthochlora (Kollar, 1850) RLMM, EAPZ					
Eurema salome jamapa (Reakirt, 1866) RLMM					
Eurema boisduvaliana (C. and R. Felder, 1865) RLMM, EAPZ					
Eurema m. mexicana (Boisduval, 1836) RLMM, EAPZ					
Abaeis nicippe (Cramer, 1779) RLMM, EAPZ					
Pyrisitia proterpia (Fabricius, 1775) PBL, RLMM, EAPZ				x	
Pyrisitia lisa centralis (Herrich Schäffer, 1865) PBL, CA			x		
Pyrisitia nise nelphe (R. Felder, 1869) PBL, RLMM, EAPZ			x	x	
Pyrisitia dina westwoodi (Boisduval, 1836) RLMM, EAPZ					
Zerene c. cesonia (Stoll, 1790) PBL, RLMM, EAPZ				x	
Anteos clorinde (Godart, [1824]) PBL, CA, RLMM, EAPZ		x			
Anteos maerula (Fabricius, 1775) RLMM					
Phoebis sennae marcellina (Cramer, 1777) PBL, CA	x	x	x	x	x
Phoebis p. philea (Linnaeus, 1763) PBL, CA, EAPZ		x	x	x	
Phoebis argante (Fabricius, 1775) PBL, CA, RLMM, EAPZ	x	x	x	x	x
Phoebis a. agarithe (Boisduval, 1836) PBL, EAPZ			x		
Phoebis neocypris virgo (Butler, 1870) PBL, RLMM, EAPZ			x		x
Aphrissa s. statira (Cramer, 1777) PBL, RLMM				x	
Aphrissa boisduvalii (C. and R. Felder, 1861) RLMM					
Rhabdodryas t. trite (Linnaeus, 1758)					
Pierinae					
Hesperocharis c. crocea H. Bates, 1866 RLMM					

Glutophrissa drusilla tenuis (Lamas, 1981) PBL, EAPZ			x		
Melete lycimnia isandra (Boisduval, 1836) PBL, RLMM, EAPZ			x		
Catasticta nimbice ochracea (H. Bates, 1864) RLMM					
Pereute charops nigricans Joicey and Talbot, 1928 RLMM					
Archonias brassolis approximata (Butler, 1873) RLMM					
Perrhybris pamela chajulensis J. and R. G. de la Maza, 1989					
Pieriballia v. viardi (Boisduval, 1836) EAPZ					
Itaballia demophile centralis Joicey and Talbot, 1928 RLMM					
Itaballia pandosia kicaha (Reakirt, 1863) TL, RLMM					
Leptophobia aripa elodia (Boisduval, 1836) RLMM					
Ascia m. monuste (Linnaeus, 1764) PBL, RLMM, EAPZ	x	x	x	x	x
Ganyra josephina josepha (Salvin and Godman, 1868) PBL, CA, RLMM, EAPZ	x		x		x
LYCAENIDAE					
Theclinae					
Eumaeus childrenae (G. Gray, 1832) PBL, RLMM				x	x
Eumaeus toxea (Godart, [1824]) RLMM, PBL					x
Brangas neora (Hewitson, 1867) PBL		x			
Brangas carthaea (Hewitson, 1868) RLMM					
Evenus regalis (Cramer, 1775) RLMM					
Evenus coronata (Hewitson, 1865) RLMM					
Evenus batesii (Hewitson, 1865) RLMM					
Atlides carpasia (Hewitson, 1868)					
Arcas imperialis (Cramer, 1775) PBL, RLMM					x
Arcas cypria (Geyer, 1837) PBL, RLMM				x	
Pseudolycaena damo (H. Druce, 1875) PBL, CURLA, RLMM, EAPZ	x		x	x	
Theritas mavors Hübner, 1818 PBL, RLMM			x	x	x
Theritas theocritus (Fabricius, 1793) PBL, RLMM				x	x
Theritas hemon (Cramer, 1775) PBL, RLMM			x	x	x
Theritas lisus (Stoll, 1790)					
Thereus cithonius (Godart, [1824])					
Rekoa meton (Cramer, 1779) RLMM					
Rekoa palegon (Cramer, 1780) PBL, RLMM, EAPZ	x		x	x	
Rekoa zebina (Hewitson, 1869) PBL			x	x	
Rekoa marius (Lucas, 1857)					
Rekoa stagira (Hewitson, 1867)					
Arawacus togarna (Hewitson, 1867) PBL, CURLA, RLMM, EAPZ	x	x	x	x	x
Arawacus sito (Boisduval, 1836) PBL, RLMM	x	x	x	x	x
Arawacus dumenilii (Godart, [1824]) RLMM					
Kolana lyde (Godman and Salvin, 1887) PBL			x		
Chlorostrymon simaethis sarita (Skinner, 1895)					
Chlorostrymon telea (Hewitson, 1868) EAPZ					
Cyanophrys goodsoni (Clench, 1946) TL, RLMM					
Cyanophrys amyntor (Cramer, 1775) PBL, EAPZ	x				
Cyanophrys herodotus (Fabricius, 1793) RLMM					
Cyanophrys longula (Hewitson, 1868) RLMM					
Cyanophrys agricolor (Butler and H. Druce, 1872) RLMM					
Laothus oceia (Godman and Salvin, 1887) PBL, RLMM			x		
Laothus barajo (Reakirt, [1867]) PBL, RLMM	x		x	x	x
Janthecla janthina (Hewitson, 1867) PBL, RLMM				x	x

Lamprospilus collucia (Hewitson, 1877) PBL			x		
Camissecla charichlorus (Butler and H. Druce, 1872) RLMM					
Electrostrymon hugon (Godart, [1824])					
Ziegleria hesperitis (Butler and H. Druce, 1872) PBL, RLMM				x	
Ziegleria ceromia (Hewitson, 1877) PBL			x		
Calycopis calus (Godart, [1824]) PBL				x	
Calycopis isobeon (Butler and H. Druce, 1872) PBL, RLMM	x	x	x	x	x
Calycopis cerata (Hewitson, 1877) PBL, RLMM				x	
Calycopis pisis (Godman and Salvin, 1887) PBL, RLMM		x			x
Calycopis demonassa (Hewitson, 1868) RLMM					
Calycopis trebula (Hewitson, 1868) RLMM					
Strymon yojoa (Reakirt, [1867]) PBL		x			
Strymon b. bazochii (Godart, [1824]) PBL, RLMM		x	x	x	
Strymon ziba (Hewitson, 1868) PBL, CA, RLMM	x		x	x	x
Strymon megarus (Godart, [1824]) PBL				x	
Strymon serapio (Godman and Salvin, 1887)					
Tmolus echion echiolus (Draudt, 1920) PBL			x	x	
Tmolus cydrara (Hewitson, 1868) PBL				x	
Nicolaea dolium (H. Druce, 1907) TL					
Ministrymon azia Hewitson, 1873) PBL			x		
Ministrymon una scopas (Godman and Salvin, 1887) PBL, RLMM			x		x
Theclopsis mycon (Godman and Salvin, 1887) CURLA				x	
Theclopsis leos (Schaus, 1913) CURLA				x	
Ostrinotes purpuriticus (H. H. Druce, 1907) PBL	x				
Ostrinotes keila (Hewitson, 1869) PBL				x	
Strephonota tephraeus (Geyer, 1837) PBL, RLMM			x		x
Strephonota sphinx (Fabricius, 1775) PBL				x	
Panthiades bitias (Cramer, 1777) PBL, RLMM		x	x	x	
Panthiades bathildis (C. and R. Felder, 1865) PBL RLMM, EAPZ	x	x	x	x	x
Panthiades phaleros (Linnaeus, 1767) PBL, RLMM				x	x
Oenomaus atena (Hewitson, 1867)					
Oenomaus ortygnus (Cramer, 1779) RLMM					
Parrhasius polibetes (Stoll, 1781) RLMM					
Parrhasius orgia (Hewitson, 1867) PBL, RLMM				x	
Parrhasius moctezuma (Clench, 1971)					
Michaelus ira (Hewitson, 1867)					
Michaelus thordesa (Hewitson, 1867)					
Aubergina paetus (Godman and Salvin, 1887) PBL, RLMM	x				
Iaspis andersoni Robbins, 2010 PBL, RLMM			x	x	
Iaspis temesa (Hewitson, 1868) PBL	x		x	x	x
Semonina semones (Godman and Salvin, 1887) PBL				x	
Chalybs janias (Cramer, 1779) RLMM					
Chalybs hassan (Stoll, 1790) PBL, RLMM				x	
Celmia celmus (Cramer, 1775) RLMM					
Polyommatinae					
Leptotes cassius cassidula (Boisduval, 1870) TL					
Cupido comyntas texana (F. Chermock, 1945) PBL	x	x	x	x	x
Celastrina echo gozora (Boisduval, 1870) TL					
Hemiargus ceraunus astenidas (Lucas, 1857) PBL, CA, RLMM, EAPZ	x	x	x	x	x

Echinargus huntingtoni hannoides (Clench, 1965) PBL				x	
RIODINIDAE					
Euselasiinae					
Euselasia cataleuca (R. Felder, 1869) RLMM					
Euselasia leucophyrna (Schaus, 1913) PBL, RLMM				x	
Euselasia chrysippe (H. W. Bates, 1866) PBL, RLMM				x	
Euselasia regipennis eupepla (Godman and Salvin, 1885) RLMM					
Euselasia hypophaea (Godman and Salvin, 1878)					
Euselasia argentea (Hewitson, 1871) EAPZ					
Euselasia eubule (R. Felder, 1869)					
Euselasia h. hieronymi (Godman and Salvin, 1868) PBL	x				
Euselasia a. aurantiaca (Godman and Salvin, 1868) RLMM					
Hades noctula Westwood, 1861 EAPZ					
Riodininae					
Mesosemia zonalis Godman and Salvin, 1885 PBL, RLMM				x	x
Mesosemia telegone telegone (Boisduval, 1836) PBL				x	
Mesosemia lamachus Hewitson, 1857 TL, PBL, RLMM		x		x	x
Mesosemia gaudiolum H. W. Bates, 1865 RLMM					
Leucochimona lepida nivalis (Godman and Salvin, 1885) PBL		x			
Leucochimona lagora (Herrich-Schäffer, [1853]) RLMM					
Peropthalma tullius (Fabricius, 1787) PBL			x	x	x
Peropthalma lasus Westwood, 1851 TL, PBL, RLMM			x	x	x
Napaea eucharila (H. W. Bates, 1867) PBL,RLMM					x
Voltinia theata Stichel, 1910 PBL				x	
Voltina umbra (Boisduval, 1870) TL					
Hyphilaria thasus (Stoll, 1780) EAPZ, PBL					x
Eurybia lycisca Westwood, 1851 TL, PBL, RLMM		x		x	x
Eurybia patrona persona Staudinger, 1876 RLMM					
Eurybia e. elvina Stichel, 1910 RLMM					
Lyropteryx lyra cleadas H. Druce, 1875 PBL, RLMM				x	
Ancyluris i. inca (Saunders, 1850) PBL, CURLA, RLMM	x	x	x	x	x
Ancyluris j. jurgensenii (Saunders, 1850) PBL, RLMM			x	x	x
Rhetus arcius castigatus Stichel, 1909 PBL, RLMM			x		x
Rhetus periander Stichel, 1910 PBL				x	
Isapis agyrtus hera Godman and Salvin, 1886 PBL, RLMM				x	
Notheme erota diadema Stichel, 1910 PBL	x			x	
Monethe albertus rudolpus Godman and Salvin, 1885					
Chalodeta lypera (H. W. Bates, 1868)					
Detritivora barnesi (J. Hall and Harvey, 2001) PBL	x	x	x	x	x
Charis anius (Cramer, 1776) PBL		x	x	x	
Calephelis argyrodines (H. W. Bates, 1866)					
Calephelis l. laverna (Godman and Salvin, 1886)					
Calephelis fulmen Stichel, 1910 RLMM, PBL	x		x		
Calephelis mexicana McAlpine, 1971					
Calephelis browni McAlpine, 1971					
Calephelis schausi McAlpine, 1971 PBL				x	x
Calephelis sixola McAlpine, 1971 PBL				x	
Calephelis velutina (Godman and Salvin, 1878) PBL, EAPZ, EAPZ			x	x	x
Caria rhacotis (Godman and Salvin, 1878) TL					

Baeotis z. zonata R. Felder, 1869 PBL				x	
Baeotis b. barce Hewitson, 1875					
Baeotis macularia (Boisduval, 1870) RLMM					
Lasaia s. sula Staudinger, 1888 TL, EAPZ					
Lasaia agesilas callaina Clench, 1972 PBL, RLMM				x	
Lasaia m. maria Clench, 1972 RLMM					
Exoplisia cadmeis (Hewitson, 1866)					
Melanis pixe sanguinea (Stichel, 1910) PBL, RLMM, EAPZ	x		x	x	x
Melanis electron melantho (Menetries, 1865) EAPZ					
Melanis cephise (Menetries, 1855)					
Mesene phareus (Cramer, 1777) PBL, EAPZ					x
Mesene croceella H. W. Bates, 1865 PBL					x
Mesene m. margaretta (A. White, 1843) TL					
Chimastrum a. argenteum (H. W. Bates, 1866)					
Symmachia p. probetor (Stoll, 1782) PBL				x	x
Symmachia accusatrix Westwood, 1851					
Pirascca tyriotes (Godman and Salvin, 1878) RLMM					
Sarota subtessellata (Schaus, 1913) EAPZ					
Sarota chrysus (Stoll, 1781) EAPZ					
Sarota g. gamelia Godman and Salvin, 1886					
Sarota acantus (Stoll, 1781) PBL				x	
Sarota myrtea Godman and Salvin, 1886 PBL			x		
Anteros formosus micon H. Druce, 1875 PBL, RLMM, EAPZ			x	x	
Calydna sturnula (Geyer, 1837)					
Emesis lucinda (Cramer, 1775) PBL			x	x	x
Emesis aurimna (Boisduval, 1870) PBL, RLMM			x		
Emesis ocypore aethalia H. W. Bates, 1868 PBL, RLMM			x		x
Emesis tenedia C. and R. Felder, 1861 PBL, EAPZ	x		x	x	
Emesis mandana furor Butler and H. Druce, 1872 PBL, RLMM, EAPZ				x	
Emesis tegula Godman and Salvin, 1886 RLMM					
Emesis l. lupina Godman and Salvin, 1886					
Pseudonymphidia clearista (Butler, 1871) TL					
Pachythone gigas nigriciliata Schaus, 1913 RLMM					
Thisbe lycorias (Hewitson, [1853]) TL, EAPZ					
Juditha caucana (Stichel, 1911) PBL, CA, RLMM	x	x	x	x	x
Synargis mycone (Hewitson, 1865) PBL, RLMM					x
Synargis phliasus velabrum (Godman and Salvin, 1878) RLMM					
Synargis n. nymphidioides (Butler, 1872) RLMM					
Menander menander purpurata (Godman and Salvin, 1878) PBL			x		
Menander pretus picta (Godman and Salvin, 1886) RLMM					
Calospila cilissa (Hewitson, 1863) PBL, RLMM	x	x	x	x	x
Calospila pelarge (Godman and Salvin, 1878) PBL, RLMM			x		x
Hypophylla zeurippa Boisduval, 1836 TL					
Hypophylla s. sudias (Hewitson, [1858]) TL, RLMM					
Setabis lagus jansoni (Butler, 1870) RLMM					
Nymphidium a. ascolia Hewitson, [1853] RLMM					
Calicosama lilina (Butler, 1870)					
Theope pedias Herrich-Schäffer, [1853] PBL				x	x
Theope eudocia Westwood, 1851 PBL			x	x	x

Theope mundula Stichel, 1926 PBL					x
Theope pieridoides C. and R. Felder, 1865					
Theope cratylus Godman and Salvin, 1886					
Theope eupolis Schaus, 1890 RLMM					
Theope virgilius (Fabricius, 1793) PBL, EAPZ				x	
Theope phaeo Prittwitz, 1865 RLMM					
Theope publius incompositus J. Hall, 1999 PBL, RLMM					x
NYMPHALIDAE					
Libytheinae					
Libytheana carinenta mexicana Michener, 1943 ER, RLMM, EAPZ					x
Danainae					
Danaus p. plexippus (Linnaeus, 1758) PBL, RLMM, EAPZ		x			
Danaus gilippus thersippus (H. W. Bates, 1863) RLMM, EAPZ					
Danaus eresimus montezuma Talbot, 1943 PBL, RLMM, EAPZ	x				
Lycorea halia atergatis (E. Doubleday, [1847]) PBL, RLMM, EAPZ	x	x	x	x	x
Lycorea ilione albescens (Distant, 1876) RLMM					
Anetia t. thirza Geyer, [1833] RLMM, EAPZ					
Ithomiini					
Tithorea tarricina pinthias Godman and Salvin, 1878 PBL, RLMM, EAPZ			x		
Tithorea harmonia salvadoris Staudinger, 1885					
Aeria eurimedia pacifica Godman and Salvin, 1879 RLMM					
Melinaea lilis imitata H. Bates, 1864					
Thyridia psidii melantho H. Bates, 1866 PBL, RLMM					x
Mechanitis menapis saturata Godman, 1901 PBL, RLMM, EAPZ		x		x	
Mechanitis polymnia lycidice H. W. Bates, 1864 TLS, PBL, RLMM, EAPZ			x	x	x
Mechanitis lysimnia utemaia Reakirt, 1866 TL, PBL, RLMM, EAPZ			x	x	x
Napeogenes t. tolosa (Hewitson, 1855) RLMM					
Hypothyris euclea valora (Haensch, 1909) RLMM, EAPZ					
Hypothyris lycaste dionaea (Hewitson, 1854) PBL, RLMM			x		
Ithomia patilla Hewitson, 1852 PBL, RLMM, EAPZ				x	x
Hyposcada v. virginiana (Hewitson, 1855) TLS, RLMM, PBL		x			
Oleria paula (Weymer, 1883) RLMM, EAPZ					
Oleria z. zea (Hewitson, [1855]) RLMM					
Ceratinia tutia (Hewitson, 1852) RLMM, EAPZ					
Callithomia hezia hedila Godman and Salvin, 1879 PBL, RLMM, EAPZ		x	x		
Dircenna klugi (Geyer, 1837) RLMM, EAPZ					
Dircenna jemina (Geyer, 1837)					
Dircenna dero (Hübner, 1823) PBL, RLMM, EAPZ			x		
Episcada s. salvinia (H. Bates, 1864) RLMM					
Pteronymia c. cotytto (Guérin-Méneville, [1844]) PBL, RLMM					x
Pteronymia alcmena (Godman and Salvin, 1877) RLMM					
Pteronymia a. artena (Hewitson, [1855])					
Pteronymia simplex fenochioi Lamas, 1978					
Godyris zavaleta sosunga (Reakirt, [1866]) PBL, RLMM, EAPZ			x		
Godyris nero (Hewitson, [1855]) RLMM					
Hypoleria lavinia cassotis (H. W. Bates, 1864) PBL, RLMM			x	x	
Greta andromica lyra (Salvin, 1869)					
Greta a. annette (Guérin-Méneville, [1844]) RLMM					
Greta morgane oto (Hewitson, [1855]) RLMM, EAPZ					

Limenitidinae					
Adelpha paraena massilia (C. and R. Felder, 1867) PBL, CURLA					x
Adelpha serpa celerio (H. W. Bates, 1864) PBL, RLMM				x	x
Adelpha pithys (H. W. Bates, 1864) RLMM					
Adelpha donysa albifilum Steinhauser, 1974					
Adelpha f. fessonia (Hewitson, 1847)					
Adelpha basiloides (H. W. Bates, 1865) TLS, RLMM, EAPZ					
Adelpha i. iphiclus (Linnaeus, 1758) RLMM, EAPZ					
Adelpha i. iphicleola (H. W. Bates, 1864)					
Adelpha cytherea marcia Fruhstorfer, 1913 TL, PBL, CURLA, RLMM, EAPZ	x	x	x	x	x
Adelpha salmoneus salmonides A. Hall 1938 PBL, RLMM		x			
Adelpha barnesia leucas Fruhstorfer, 1913					
Adelpha n. naxia (C. and R. Felder, 1867)					
Adelpha m. melanthe (H. Bates, 1864) RLMM					
Adelpha leuceroides Beutelspacher, 1975 RLMM					
Adelpha e. erymanthis Godman and Salvin, 1884					
Adelpha malea fundania Fruhstorfer, 1915					
Adelpha boeotia oberthurii (Boisduval, 1870)					
Adelpha delinita utina A. Hall, 1938 TL					
Adelpha p. phylaca (H. W. Bates, 1866)					
Adelpha phylaca pseudothalia A. Hall, 1938					
Adelphsa m. messana (C. and R. Felder, 1867) PBL		x			
Adelpha lycorias melanthe (H. W. Bates, 1864)					
Adelpha l. leuceria (H. Druce, 1874)					
Adelpha cocala lorzae (Boisduval, 1870)					
Adelpha felderi (Boisduval, 1870)					
Adelpha milleri Beutelspacher, 1976 RLMM					
Heliconiinae					
Altinote ozomene nox (H. W. Bates, 1864) RLMM					
Actinote anteas (Doubleday, [1847]) EAPZ					
Actinote guatemalena guatemalena (H. Bates, 1864) EAPZ					
Agraulis vanillae incarnata (N. Riley, 1926) PBL, CA, EAPZ	x		x	x	
Dione juno huascuma (Reakirt, 1866) PBL, EAPZ				x	
Dione moneta poeyii (Butler, 1873) EAPZ					
Dryadula phaetusa (Linnaeus, 1758) PBL, RLMM, EAPZ		x	x		x
Dryas iulia moderata (N. Riley, 1926) TL, PBL, CA, RLMM, EAPZ	x	x	x	x	x
Philaethria diatonica (Fruhstorfer, 1912) TL					
Laparus doris viridis (Staudinger, 1885) TLS, PBL, RLMM, EAPZ				x	
Eueides aliphera gracilis Stichel, 1904 TL, PBL, RLMM, EAPZ				x	x
Eueides lineata Salvin and Godman, 1868 PBL, RLMM	x	x	x	x	x
Eueides isabella eva (Fabricius, 1793) PBL, RLMM, EAPZ				x	
Eueides procula asidia Schaus, 1920					
Heliconius charitonia vazquezae Comstock and Brown, 1950 PBL, CA, RLMM, EAPZ	x	x	x	x	x
Heliconius cydno galanthus H. W. Bates, 1864 PBL, CURLA, RLMM, EAPZ		x		x	
Heliconius erato petiverana (Doubleday, 1847) PBL, RLMM, EAPZ	x	x	x	x	x
Heliconius hecalesia octavia H. W. Bates, 1866 PBL, RLMM					x
Heliconius hecale discomaculatus Weymer, 1891 TL					
Heliconius hecale zuleika Hewitson, 1854 PBL, EAPZ		x	x	x	
Heliconius ismenius telchinia Doubleday, 1847 TL, PBL, CURLA, RLMM		x	x	x	x

Heliconius sara veraepacis H. W. Bates, 1864 PBL, RLMM, EAPZ	x			x	
Heliconius sapho leuce Doubleday, 1847 PBL, RLMM, EAPZ	x			x	
Heliconius hortense Guérin-Méneville, [1844] RLMM					
Euptoieta hegesia meridiania Stichel, 1938 PBL, RLMM, EAPZ				x	x
Apaturinae					
Asterocampa idyja argus (H. Bates, 1864) TLS					
Doxocopa pavon theodora (Lucas, 1857) TLS					
Doxocopa cyane mexicana Bryk, 1953					
Doxocopa laurentina cherubina (C. and R. Felder, 1867) PBL					x
Doxocopa callianira (Menetries, 1855) EAPZ					
Doxocopa l. laure (Drury, 1773) TL, PBL, RLMM, EAPZ					x
Biblidinae					
Biblis hyperia aganisa Boisduval, 1836 CA, RLMM, EAPZ	x				
Mestra amymone (Ménétriés, 1857) PBL, RLMM, EAPZ	x	x	x	x	x
Catonephelini					
Catonephele mexicana Jenkins and R. G. de la Maza, 1985 PBL, RLMM, EAPZ			x	x	x
Catonephele numilia esite (R. Felder, 1869) PBL, RLMM, EAPZ				x	x
Catonephele chromis godmani Stichel, 1901 PBL					x
Eunica t. tatila (Herrich-Schäffer [1885]) RLMM					
Eunica caelina agusta H. W. Bates, 1866 RLMM					
Eunica mygdonia omoa A, Hall, 1919					
Eunica c. caralis (Hewitson, [1857])					
Eunica malvina albida Jenkins, 1990					
Eunica monima (Stoll, 1782) PBL, ER, RLMM, EAPZ				x	x
Eunica sydonia caresa (Hewitson, [1857]) RLMM					
Eunica chlororhoa mira Godman and Salvin, 1877 RLMM					
Eunica volumna venusia (C. and R. Felder, 1867)					
Eunica pomona amata H. Druce, 1874					
Eunica a. alcmena (Doubleday, [1847]) RLMM					
Eunica alpais excelsa Godman and Salvin, 1877 RLMM					
Myscelia c. cyaniris Doubleday, [1848] TL, RLMM, EAPZ					
Myscelia ethusa pattenia Butler and H. Druce, 1872 EAPZ					
Nessaea a. aglaura (Doubleday, [1848]) RLMM, EAPZ					
Ectima erycinoides C. and R. Felder, 1867 PBL, CURLA, RLMM			x		x
Ageroniini					
Hamadryas februa ferentina (Godart, [1824]) TLS, PBL, CA, RLMM, EAPZ	x	x	x	x	x
Hamadryas g. glauconome (H. Bates, 1864) PBL, EAPZ			x	x	
Hamadryas a. atlantis (H. Bates, 1864) EAPZ					
Hamadryas feronia farinulenta (Fruhstorfer, 1916) TL, PBL, RLMM, EAPZ			x	x	x
Hamadryas g. guatemalena (H. Bates, 1864) PBL, RLMM		x	x	x	x
Hamadryas iphthime joannae Jenkins, 1983 PBL, EAPZ					
Hamadryas fornax fornacalia (Fruhstorfer, 1907)					
Hamadryas laodamia saurites (Fruhstorfer, 1916) TL, PBL, RLMM, EAPZ			x	x	x
Hamadryas amphinome mexicana (Lucas, 1853) PBL, RLMM, EAPZ			x		x
Epiphelini					
Bolboneura s. sylphis (H. Bates, 1864) ER					x
Epiphile a. adrasta Hewitson, 1861					
Nica flavilla canthara (Doubleday, 1849) PBL, RLMM, EAPZ			x	x	
Pyrrhogyra neaerea hypensor Godman and Salvin, 1884 TLS, RLMM					

Pyrrhogyra o. otolais H. W. Bates, 1864 PBL, RLMM				x	x
Pyrrhogyra e. edocla Doubleday, [1848] TLS					
Temenis laothoe hondurensis Fruhstorfer, 1907 TL, PBL, RLMM			x	x	
Eubagini					
Dynamine postverta mexicana d'Almeida, 1952 PBL, RLMM , EAPZ			x	x	x
Dynamine theseus (C. and R. Felder, 1861) PBL, RLMM					x
Dynamine artemisia (Fabricius, 1793) RLMM, EAPZ					
Dynamine ate (Godman and Salvin, 1883) RLMM					
Dynamine dyonis Geyer, 1837 RLMM, EAPZ					
Dynamine paulina thalassina (Boisduval, 1870) EAPZ					
Callicorini					
Callicore tolima peralta (Dillon, 1948) RLMM					
Callicore l. lyca (Doubleday, [1847]) RLMM, UYUCA	x			x	
Callicore astarte patelina (Hewitson, 1853) RLMM, EAPZ					
Callicore texa titania (Salvin, 1869) TLS, PBL, RLMM, EAPZ			x	x	
Callicore tolima guatemalena (H. Bates), 1866 PBL					x
Callicore pitheas (Latreille, [1813]) RLMM					
Diaethria a. anna (Guérin-Méneville, [1844]) PBL, CURLA, RLMM, EAPZ	x	x	x		x
Diaethria a. astala (Guérin-Méneville, [1844]) RLMM, EAPZ					
Diaethria pandama (Doubleday, [1848]) RLMM					
Cyrestinae					
Marpesia chiron (Fabricius, 1775) PBL, EAPZ					x
Marpesia merops (Doyère, [1840]) PBL, RLMM, EAPZ				x	
Marpesia c. corita (Westwood, 1850) RLMM					
Marpesia marcella valetta (Butler and H. Druce, 1872) EAPZ					
Marpesia petreus (Cramer, 1776) PBL, RLMM, EAPZ			x		x
Marpesia berania fruhstorferi (Seitz, 1914) TL, EAPZ					
Marpesia zerynthia dentigera (Fruhstorfer, 1907) RLMM, EAPZ					
Nymphalinae					
Coeini					
Historis odius dious Lamas, 1995 PBL, RLMM, EAPZ			x	x	
Historis a. acheronta (Fabricius, 1775) PBL, EAPZ				x	
Baeotus baeotus (Doubleday, [1849]) RLMM					
Pycina zamba zelys Godman and Salvin, 1884					
Nymphalini					
Colobura d. dirce (Linnaeus, 1758) PBL, RLMM, EAPZ	x	x	x	x	x
Tigridia acesta (Linnaeus, 1758) PBL, RLMM, EAPZ			x		
Smyrna blomfildia datis Fruhstorfer, 1908 PBL, RLMM, EAPZ				x	
Smyrna karwinskii Geyer, [1833] EAPZ					
Hypanartia dione disjuncta Willmott et al., 2001 RLMM					
Hypartnartia lethe (Fabricius, 1793) RLMM, EAPZ					
Vanessa virginiensis (Drury, 1773) RLMM, EAPZ				x	
Vanessa cardui (Linneaus, 1758) PBL		x			
Victorinini					
Anartia jatrophae luteipicta (Fruhstorfer, 1907) TL, PBL, CA, RLMM, EAPZ	x	x	x		x
Anartia f. fatima (Fabricius, 1793) PBL, CA, RLMM, EAPZ	x	x	x	x	x
Siproeta stelenes biplagiata (Fruhstorfer, 1907) TL, PBL, CA, RLMM, EAPZ	x	x	x	x	x
Siproeta e. epaphus (Latreille, 1813) PBL, CA, RLMM, EAPZ	x	x			

Junoniini					
Junonia evarete (Cramer, 1779) ER, EAPZ					x
Melitaeini					
Chlosyne g. gaudialis (H. Bates, 1864) PBL, RLMM, EAPZ			x		x
Chlosyne j. janais (Drury, 1782) PBL, RLMM, EAPZ				x	x
Chlosyne t. theona (Menetries, 1855) ER, RLMM, EAPZ					x
Chlosyne ezra (Hewitson, 1864) TLS					
Chlosyne l. lacinia (Geyer, 1837) PBL, RLMM, EAPZ		x	x	x	x
Microtia e. elva H. Bates, 1864 ER, CA	x				x
Eresia c. clio (Linnaeus, 1758) RLMM, EAPZ, PBL		x			
Eresia p. phillyra Hewitson, 1852 RLMM					
Castilia myia (Hewitson, [1864])		x			
Castilia griseobasalis (Röber, 1913)					
Tegosa n. nigrella (H. Bates, 1866) RLMM					
Tegosa anieta luka (H. Bates, 1866) RLMM					
Tegosa claudina (Eschscholtz, 1821)					
Anthanassa ardys (Hewitson, 1864) RLMM					
Anthanassa drusilla lelex (H.Bates, 1864) PBL, RLMM			x		
Anthanassa dracaena phlegias (Godman, 1901) TL					
Anthanassa drymaea (Godman and Salvin, 1878)					
Anthanassa p. ptolyca (H. Bates, 1864) RLMM					
Anthanassa s. sitalces (Godman and Salvin, 1882) RLMM					
Anthanassa argentea (Godman and Salvin, 1882) RLMM					
Anthanassa atronia (H. Bates, 1866)					
Anthanassa o. otanes (Hewitson, 1864) RLMM					
Anthanassa tulcis (H. Bates, 1864) PBL, RLMM			x	x	
Charaxinae					
Consul fabius cecrops (Doubleday, [1849]) PBL, RLMM	x			x	x
Siderone galanthis (Cramer, 1775) PBL, RLMM					x
Siderone s. syntyche Hewitson, [1854]) RLMM					
Zaretis callidryas (R. Felder, 1869)					
Zaretis ellops (Ménétriés, 1855) PBL, RLMM, EAPZ				x	
Zaretis i. itys (Cramer, 1777) PBL, RLMM					
Anaea aidea (Guérin-Méneville, [1844]) PBL, RLMM					x
Fountainea eurypyle confusa (A. Hall, 1929) PBL, RLMM, EAPZ					x
Memphis aureola (H. Bates, 1866) PBL, RLMM					x
Memphis beatrix (H. Druce, 1874) RLMM					
Memphis proserpina (Salvin, 1869) RLMM					
Memphis glauce centralis (Röber, 1916) RLMM, EAPZ					
Memphis neidhoeferi (Rotger, Escalante, and Coronado, 1965)					
Memphis arginussa eubaena (Boisduval, 1870) PBL					x
Memphis moruus boisduvali (W. Comstock, 1961) PBL, RLMM					x
Memphis lyceus (H. Druce, 1877) PBL					x
Memphis oenomais (Boisduval, 1870)					
Memphis artacaena (Hewitson, 1869) PBL, RLMM					x
Memphis d. dia (Godman and Salvin, 1884)					
Memphis p. pithyusa (R. Felder, 1869) PBL, RLMM					x
Memphis mora orthesia (Godman and Salvin, 1884) RLMM					
Memphis hedemanni (R. Felder, 1869) RLMM					

Archaeoprepona amphimachus amphiktion (Fruhstorfer, 1916) TL, RLMM					
Archaeoprepona demophon centralis (Fruhstorfer, 1905) TL, PBL, RLMM			x	x	
Archaeoprepona demophoon gulina (Fruhstorfer, 1904) TL, PBL, EAPZ					x
Archaeoprepona menander phoebus (Boisduval, 1870) TL, RLMM					
Prepona dexamenus medinai Beutelspacher, 1981 PBL, RLMM					x
Prepona laertes octavia Fruhstorfer, 1905 TL, PBL, RLMM, EAPZ				x	
Prepona pylene philetas Fruhstorfer, 1904 TL					
Prepona pylene gnorima H. Bates, 1865					
Agrias aedon rodriguezi Schaus, 1918 RLMM					
Agrias amydon lacandona R. G. and J. de la Maza, 1999 PBL, RLMM					x
Satyrinae					
Morphini					
Antirrhea philoctetes lindigii C. and R. Felder, 1862 CURLA, RLMM, EAPZ			x		x
Morpho achilles patroclus C. and R. Felder, 1861 EAPZ					
Morpho helenor montezuma (Guenée, 1859) TLS, PBL, RLMM, EAPZ			x	x	
Morpho cypris aphrodite LeMoult and Réal, 1962 PBL, CURLA, RLMM			x		
Morpho polyphemus catalina Corea and Chacón, 1984 EAPZ, RLMM, PBL			x		
Morpho polyphemus luna Butler, 1869 TLS					
Morpho theseus arotos (Frustorfer, 1905) PBL, RLMM			x		x
Morpho theseus justitiae Salvin and Godman, 1868 TLS, PBL, RLMM			x		x
Brassolinae					
Caligo oileus scamander (Boisduval, 1870) RLMM, EAPZ					
Caligo telemonius memnon (C. and R. Felder, 1867) TLS, PBL, RLMM, EAPZ			x	x	x
Caligo illioneus oberon Butler, 1870 RLMM					
Caligo brasiliensis sulanus Fruhstorfer, 1904 TL, PBL			x	x	x
Caligo oedipus fruhstorferi Stichel, 1904 TL, RLMM		x			
Caligo uranus Herrich-Schäffer, 1850 PBL, RLMM, EAPZ		x	x	x	
Catoblepia o. orgetorix (Hewitson, 1870) PBL, RLMM				x	x
Dynastor darius stygianus Buter, 1872 EAPZ					
Dynastor macrosiris strix Bates, 1864 EAPZ					
Eryphanis aesacus (Herrich-Schäffer, 1850) RLMM, EAPZ					
Eryphanis lycomedon (C. and R. Felder, 1862) RLMM					
Opsiphanes boisduvallii Doubleday, [1849] PBL, RLMM		x			x
Opsiphanes bogotanus alajuela Bristow, 1991 PBL				x	
Opsiphanes cassiae castaneus Stichel, 1904					
Opsiphanes t. tamarindi C. and R. Felder, 1861 TLS, PBL, RLMM, EAPZ			x		x
Opsiphanes quiteria quirinus Godman and Salvin, 1881 PBL, RLMM, EAPZ		x			
Opsiphanes cassina fabricii (Boisduval, 1870) RLMM, EAPZ					
Opsiphanes invirae relucens Fruhstorfer, 1907 TL					
Narope testacea Godman and Salvin, 1878					
Haeterini					
Cithaerias p. pireta (Stoll, 1780) PBL, RLMM, EAPZ				x	x
Pierella helvina incanescens Godman and Salvin, 1877 PBL, CURLA, RLMM, EAPZ					x
Pierella luna pallida (Salvin and Godman, 1868) PBL, EAPZ	x	x	x	x	x
Pierella luna rubecula Salvin and Godman, 1868 TLS, RLMM					
Melanitini					
Manataria hercyna maculata (Hopffer, 1874) RLMM, EAPZ					
Satyrini					
Cyllopsis h. hedemanni R. Felder, 1869 RLMM					

Cyllopsis steinhauserorum L. Miller, 1974 RLMM					
Cyllopsis hilaria (Godman, 1901)					
Cyllopsis suivalenoides L. Miller, 1974					
Cyllopsis p. pyracmon (Butler, [1867])					
Cyllopsis pephredo (Godman, 1901) RLMM					
Euptychia hilaria (C. and R. Felder, 1867)					
Euptychia westwoodi Butler, 1867 TL					
Hermeuptychia hermes (Fabricius, 1775) PBL, CA, RLMM, EAPZ	x	x	x	x	x
Cissia labe (Butler, 1870) PBL, RLMM	x	x	x	x	x
Cissia similis (Butler, 1867) PBL					x
Cissia pompilia (C. and R. Felder, 1867) PBL, RLMM, EAPZ	x	x	x		x
Cissia themis (Butler, 1867) PBL, RLMM	x	x	x		x
Magneuptychia libye (Linnaeus, 1767) PBL, RLMM, EAPZ	x	x	x	x	x
Megeuptychia antonoe (Cramer, 1775) PBL, EAPZ					x
Pareuptychia metaleuca (Boisduval, 1870) PBL, RLMM	x	x	x	x	x
Pareuptychia ocirrhoe (Fabricius, 1776) PBL, CA, RLMM, EAPZ	x	x	x	x	x
Satyrotaygetis satyrina (H. W. Baters, 1865) RLMM, EAPZ					
Taygetis mermeria excavata Butler, 1868 TL, PBL, RLMM					x
Taygetis laches (Fabricius, 1793) PBL, RLMM, EAPZ	x	x	x	x	x
Taygetis rufomarginata Staudinger, 1888 PBL, RLMM, EAPZ	x	x			
Taygetis thamyra (Cramer, 1779) PBL, RLMM			x		
Taygetis virgilia (Cramer, 1776) TLS, RLMM					
Taygetomorpha celia (Cramer, 1779) EAPZ					
Oxeoschistus tauropolis (Westwood, [1850]) UYUCA, RLMM, EAPZ	x				

NOTES:

A1 – Identification in EAPZ database questionable. Specimens from the TL only in USNM. These may be the very similar *H. drucei* (Schaus, 1910), from Guatemala and Costa Rica.

A2 – Identification questionable: USNM has phenotype (as illustrated in Seitz) from Peru and Brazil.

Results and Discussion

While our inventory of the Lepidoptera of Honduras is far from complete, our initial results and comparisons with previous records provide insight into the expected diversity and potential evidence of endemism. Our fieldwork to date has been based primarily at the Lodge at Pico Bonito and other areas along the northern coast near La Ceiba. Moth collecting has also been centered at the Lodge at Pico Bonito. Moth groups well represented in our nocturnal samples include the Pyraloidea (principally Crambidae), Noctuoidea, especially Arctiinae and Notodontidae, Geometridae, Sphingidae, and Saturniidae. Thus far, excluding undetermined material, more than 975 species of moths have been collected during our surveys, with the addition of literature and museum specimen records producing a total of 1,441 moth species included in the present list for Honduras. The highest diversity has been within the Pyraloidea and Noctuoidea, with many species represented by single specimens. A total of 861 butterfly species are now listed for Honduras, with 393 species collected during our surveys. In all, 2,302 species of Lepidoptera are recorded herein. Based on comparison with the work of Janzen and Hallwachs (2010, pers. comm.) for Costa Rica and our current findings, we estimate the total number of Lepidoptera species in Honduras will exceed 6,000. Some representative taxa of butterflies (Fig. 2-9) and moths (Fig. 10-36) sampled during our surveys are illustrated. However, we hope to provide reference images for many additional species, either web-based and/or in subsequent publications.

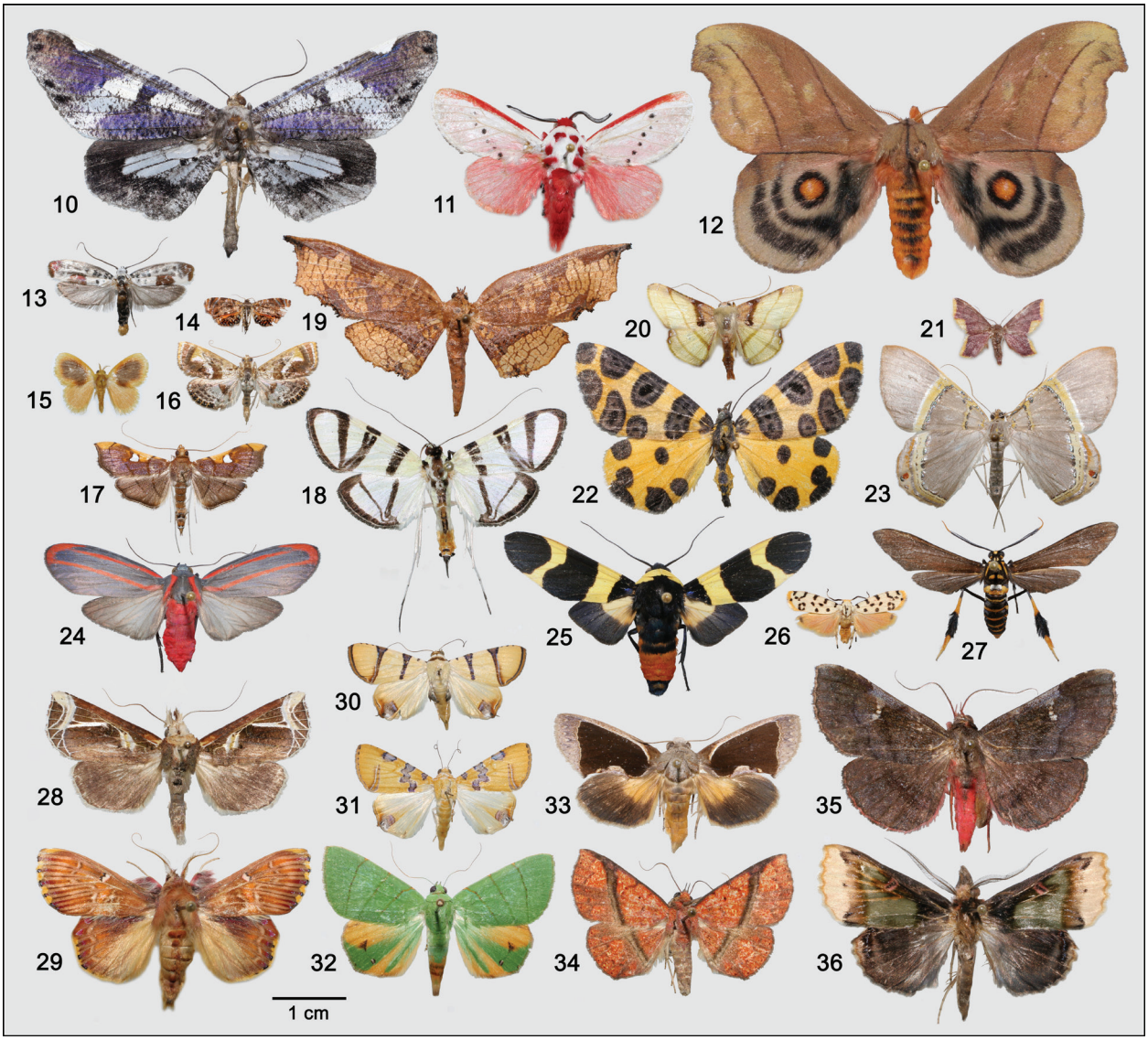
In summarizing our preliminary results for various moth taxa, we note the Pyraloidea are particularly diverse with 290 species listed, and many samples are still undetermined. Several new species are present in our material, some of which are also found in other parts of Central America, such as Area de Conservación Guanacaste, northwestern Costa Rica, and await revisionary studies

Figures 2-9. Honduran butterflies. **2)** *Pareuptychia ocirrhoe*. **3)** *Calephelis* sp. **4)** *Charis anius*. **5)** *Parides eurimedes mylotes*. **6)** *Cymaenes trebius*. **7)** *Strymon ziba*. **8)** *Calospila cilissa*. **9)** *Vehilius stictomenes illudens*.

of the various genera. Not surprising, given the proximity to two rivers, the aquatic Crambidae (Acentropinae) are especially abundant at PBL with 27 morphospecies distinguished, 11 determined to named species thus far and 11 recognized as probable new species. While only 29 species of Gelechioidea are indicated in our list, material representing this group includes many additional species to be sorted and identified. In the Glyphidoceridae alone, Adamski (pers. comm.) recognized four

new species that he will describe in a forthcoming publication. Other microlepidopteran groups, such as the Tortricoidea, are poorly represented in both numbers of species and the number of individuals collected. The Tortricidae do, however, hold some interesting surprises, with colorful, elaborately patterned diurnal genera such as *Pseudatteria* Walsingham and *Mictopsichia* Hübner. In the later genus, Matthews et al. (2011) reported the occurrence of *M. cubae* (Fig. 14) from our surveys, noting the new country record, biogeographical significance, and describing the previously unknown female genitalia and evasive behavior of adults.

Some progress has been made in our knowledge of the Pterophoroidea with additional work to be completed. Literature accounts for Pterophoridae (Walsingham 1915; Gielis 2003, 2006) indicated



Figures 10-36. A small sample of the moth diversity at Pico Bonito Lodge. **10)** Hedylidae, *Macrosoma hyacinthine*. **11)** Megalopygidae, *Trosia nigropunctigera*. **12)** Saturniidae, *Hyperchira nausica*. **13)** Elaschistidae, *Ethmia ungulatella*. **14)** Tortricidae, *Mictopsichia cubae*. **15)** Dalceridae, *Dalcerides mesoa*. **16-18)** Crambidae – **16)** *Cosmopterosis spatha*; **17)** *Coenostolopsis apicalis*; **18)** *Conchylodes nolckenialis*. **19)** Thyrididae, *Draconia denticulate*. **20-23)** Geometridae – **20)** *Pyrinia itunaria*; **21)** *Tricentrogyna violescens*; **22)** *Pantherodes* sp.; **23)** *Phrygionis privignaria*. **24-27)** Noctuidae, Arctiinae – **24)** *Cissura plumbea*; **25)** *Viviennea tegyra*; **26)** *Mulona phelina*; **27)** *Horama oedippus*. **28)** Notodontidae – *Calledema argenta*. **29-36)** Noctuidae – **29)** *Sosxetra grata*; **30)** *Eulepidotis perducens*; **31)** *E. hermura*; **32)** *E. punctilinea*; **33)** *Gonodonta sinaldus*; **34)** *Antiblemma incarnans*; **35)** *Azeta rhodogaster*; **36)** *Ceroctena amynta*.

only six species from Honduras, while 46 and 15 species are recorded from Costa Rica and Guatemala, respectively. Matthews and Lott (2005) reviewed and catalogued larval foodplants of the world's Pterophoridae. While 70 plant families are utilized, one-third of pterophorids for which larval foodplants are known are associated with Asteraceae. Based on the diversity of the Asteraceae species found in the Herbario Zamorano Paul C. Standley, EAPZ, from Honduras (410 species) (database records, courtesy of Director, Dr. George Pilz) and comparison with the adjacent Central American faunas and the Nearctic fauna (159 species, Matthews 2006), the Honduran fauna of Pterophoridae should approach or exceed 50 species. After examination of material in the collections at EAPZ and our recent surveys, we now recognize 17 species of Pterophoridae from Honduras with 12 named species, and the remainder determined to genus. At least two species are known to be new, with descriptions in preparation by Matthews and Miller. In addition, Matthews and Miller (2010) recently described the life history of the cacao plume moth, *Michaleophorus nubilus* in Honduras, also noting the new record for the country.

The major macro moth groups (Zygaenoidea, Cossoidea, Sesioidea, Lasiocampoidea, Bombycoidea, Geometroidea, Noctuoidea) account for 1,055 or 73% of the 1,441 moth species listed, with 674 of these represented by our recent fieldwork. Among the generally diurnal taxa, the Castniidae (Castniinae) are poorly known from Honduras. Originally, there were only a few Honduran records in collections of *Telchin atymnius futilis* and *Athis i. inca*. No specimens of the latter have been observed during our surveys as yet, but *T. atymnius futilis* has been frequently encountered along the northern coast at PBL and CURLA. In addition, specimens of another species, *Divana diva*, a species widely distributed throughout Central America, are known from PBL and also collected by RL (RLMM). Specimens of *Athis clitarcha*, originally described from Panama (Salvin) and Nicaragua (Belt) (Miller 1986), have also been collected in Honduras (RLMM and EAPZ). *Amauta cacica procera* was originally described from Guatemala, with most specimens in museum collections recorded from Chiriqui in Panama (Miller and Sourakov 2009). This species has been observed by Janzen in eastern Costa Rica (pers. comm.) and collected in Honduras (RLMM and EAPZ). Another species, *Telchin licus*, has not been previously recorded in the literature north of Panama, but it has also been collected in Honduras (RLMM and EAPZ). This species, an agricultural pest normally associated as larvae with various *Heliconia* and sugar cane in South America (especially Amazon basin), appears to be well established in the Pico Bonito National Park and elsewhere along the northern coast of Honduras. This latter species has obviously extended its geographic range or possibly was introduced to the area. We believe that with continuing surveys at least another two to four species of Castniidae will be found to occur in Honduras.

The Noctuoidea are thus far represented by 561 species, primarily Erebidae (386 species). While most have been collected at lights, a few, such as *Ascalapha odorata*, were commonly found in bait traps. We have also observed *Azeta rhodogaster* (Fig. 35) during the day on a regular basis, easily spotted in flight by the red abdomen. The larvae of this species feed on the "living fence" tree *Gliricidia sepium* (Fabaceae) which is very common in northern Honduras and elsewhere in Central America. Also encountered during the day at PBL and CURLA were several dioptines (Notodontidae), including *Oricia truncata* and *Josia*, *Phanoptis*, and *Phaeochlanena* spp., the latter along with several of the nocturnal genera in our material containing undescribed species and in need of careful study (James Miller, pers. comm.). Certain erebid genera such as *Eulepidotis* (12 species) of the Eulepidotinae and *Gonodonta* (10 species) of the Calpinae are notably diverse at PBL, but the Arctiinae are overall the most diverse with 210 species listed for Honduras and 131 collected at PBL. While some of the striking wasp mimics of this group are frequently encountered at the sheet, such as *Horama plumipes*, others, for example, the widespread species *H. oedippus* (Fig. 27), are represented by single specimens. Some genera such as *Macrocneme* are numerous at the sheet but though first appearing as single species, show slight variations in the maculation and metallic hues on the black forewings, with cryptic species likely involved. One of our most significant finds in the Arctiinae is a single specimen of *Euthyone theodula* (Lithosiini), previously known only by the Schaus holotype from Guatemala in the USNM.

The Geometroidea are another sizeable group with 215 species recorded for the country and 161 collected at PBL. Several species are more or less ubiquitous, present in large numbers at the sheet during each sampling period. Examples include three species of *Synchlora* Guenée, *Tricentrogyna violescens* (Fig. 21), *Pyrinia sanitaria, Patalene aenetusaria, Oxydia vesulia,* and *Leuciris fimbriaria*.

Certain genera such as *Macaria* and *Eois* are common and will undoubtedly add named species to the list with further identification work including dissections of genitalia and comparison with type material. Revisionary studies such as Poole (1987) and Pitkin (1993, 1996) have greatly contributed to the known fauna. Further collecting and identifications by CVC and others as well as the results of ongoing barcoding work by research associates visiting PBL in June 2010 in collaboration with the Biodiversity Institute of Ontario are also expected to contribute markedly to our knowledge of the Honduran fauna.

During the last two years, our surveys have sampled the overall lepidopteran biodiversity but due to the limitations on the total numbers of collected specimens permitted per trip and space considerations in transport, we have focused on many of the smaller moths. However, within the Bombycoidea, we have collected several Bombycidae (7) and have voucher specimens and other records for 82 Saturniidae. Although Ronald Cave and Robert Lehman have collected a number of the Hemileucinae during their respective surveys, we have not yet collected voucher specimens for many of these species. However, *Schausiella santarosensis* was a remarkable find, collected in November during some rather heavy rains. In reviewing the literature and other records, it is surprising that *Copiopteryx semiramis* has not been reported in literature accounts for Honduras. This genus is rather uncommon in the field, but conspicuous because of the long tails. Meerman (1999) listed it for Belize and there is a single specimen from Honduras in EAPZ. The diversity of another major bombycoid lineage, Sphingidae, at PBL is remarkable with about half (50) of the total number of known Honduras species (112) present.

Within the butterflies, the number of known Mesoamerican Hesperiidae (combined species and subspecies) is rather remarkable. Evans (1951, 1952, 1953 and 1955) listed 223 species of Hesperiidae from Honduras, while Munroe and Miller (1967) recorded 83 species, many of which were new national records at the time. ADW (unpublished) conducted an analysis of species represented in literature and collections, and the results are indicative of how few biodiversity surveys have been completed in some areas of Mesoamerica. Records for Hesperiidae in Central America were as follows: Mexico 792, Belize 282, Guatemala 391, El Salvador 283, Nicaragua 366, Costa Rica 589, and Panama 448. Including our recent field data, the total number of Hesperiidae now recorded for Honduras stands at 311 species. Based on the analysis of Mesoamerican distributions (ADW), we expect up to 587 taxa of Hesperiidae to eventually be found in Honduras, suggesting that as much as 47% of the country's hesperiid fauna remains to be documented. This number may at first seem unusually high, but the discovery of 35 undescribed hesperiid taxa from Mexico within the last 15 years, coupled with at least that many new hesperiid taxa recently discovered in Costa Rica (Burns and Janzen 2001, 2005a,b; Burns et al. 2007; Hebert et al. 2004; Janzen and Hallwachs 2010; Pozo et al. 2008; Warren et al. 2011), reinforces the fact that there is much to learn about the distributions and diversity of Mesoamerican Hesperiidae, especially those of high-altitude habitats, which are very poorly known for Hesperiidae and other groups in Honduras.

Compared to the Hesperioidea, there are fewer new additions in the Papilionoidea with a total of 550 taxa recorded for Honduras, 267 for which we have collected voucher specimens during our 2009-2010 surveys. There are a number of potential additional species recorded for the country, but often these are taxa which have been recorded from surrounding countries and not been previously published elsewhere. Some of the most noteworthy new records include *Ostrinotes purpuriticus, Strephannota sphinx, Euselasia h. hieronymi, Ectima erycinoides*, and *Oxeoschistus tauropolis*. The butterflies provide some interesting statistics with respect to the overall species biodiversity. For example, in the Riodinidae, there are 101 vouchered or potential taxa for Honduras and of these, we have identified and collected 50 taxa thus far. Some species such as *Calospila cilissa* and *Juditha caucana* appear to have multiple broods throughout the year and were present at PBL during our surveys in May, June, August and November. Other interesting species in this group include *Leuchochimona lepida nivalis, Peropthalma tullius, P. lasus,* and *Notheme erota diadema*. While there is great diversity in the genus *Calephelis*, some problematic specimens remain undetermined. Although members of this family did perch on the under surface of plants, we observed a number taking nectar on flowers in open sunny patches both at PBL and CA. Thus far, 50 Riodinidae and 51 Lycaenidae have been identified from our recent studies in Honduras compared with 49 Riodinidae and 101 Lycaenidae identified by Austin et al. (1996) from Tikal, Guatemala.

Several butterflies, including Lycaenidae (Eumaeini) and Hesperiidae (Eudaminae), were collected at mercury vapor lights at night. Among these are *Cyanophrys fusius*, *Brangas neora*, *Bungalotis astylos*, *Dyscophellus phraxanor*, and *Polygonus s. savigny*. Only the latter species was also collected during the day. This source of sampling should not be overlooked since the crepuscular skippers and canopy dwelling lycaenids, such as *B. neora*, might not otherwise be readily encountered.

As previously noted, our list is by no means complete, especially for the moths, with only a fraction of the expected number of species represented for the country. Future survey work must extend to other areas of the country, and include sampling at higher elevations and in a greater variety of habitats. Even for PBL, it will be necessary to continue sampling with multiple techniques over the course of several years and throughout the year, to include the variation of seasonal wet/dry cycles, periodic heavy rainfall from Atlantic tropical systems, as well as rain shadow effects of mountains in the vicinity. Along with more extensive sampling, there are also problems to overcome with species-level identifications. Most of our determinations of moths are based on comparisons with species known from Guatemala, Belize, and Costa Rica, using limited literature, internet, and collection resources. For many of the taxa listed, we have, unfortunately, had to resort to using genus plus "sp." or "nr." (near) as a means of recording our results. While we have been able to determine most taxa to genus, there are still numerous morphotypes to be sorted out and classed as numbered unknowns in Gelechioidea, Noctuoidea, and likewise for several pyraloids, altogether representing approximately 170 species.

Although many of the low elevation species encountered thus far are broad-ranging and occur throughout Central America and much of the rest of the Neotropics, there are still overriding questions as to whether or not these similar phenotypes are indeed the same genotype or monophyletic species from one area to the next. Ultimately, DNA barcoding and morphological studies may help resolve some of these problems, including cases of cryptic sympatric species. However, especially for moths, many of the species we have identified were described by Walker, Druce, Schaus, and others more than 80 years ago and previously known only from the holotype specimens. Thus, while barcoding may separate close species, unless genomic sequences can be successfully obtained from these relatively old holotypes, final decisions on nomenclature will have to be based on morphology alone. This problem is further compounded by the need to examine the types of multiple synonyms already established for many neotropical species.

As our work continues and the list of species is refined through revisionary studies, there will be many other aspects of the natural history and biodiversity of Honduran Lepidoptera to further explore. Janzen and Hallwachs (2010) and collaborators have produced remarkable websites and long-term studies documenting the life histories of Guanacaste Lepidoptera in Costa Rica, and it is hoped that similar, if less extensive, efforts can be made at PBL in collaboration with staff, students, and parataxonomists. In many cases the best approach to life history studies may be to survey the associates of specific larval food plants. In general, our surveys of adults have been strictly qualitative, with the primary objective of assembling faunal lists and recognizing new records, undescribed and/or endemic taxa. We hope that this work will provide baseline data for more quantitative studies by future researchers investigating biodiversity patterns and trends in comparing areas based on elevation, microhabitat, environmental quality, climate change, and other factors used in recognizing critical areas for conservation management.

We have not yet assembled sufficient data to be able to make predictions on the number of endemic taxa to be expected for Honduras. This is due in part to working at low elevations, and limited sampling in isolated habitats such as the tropical dry forest habitats similar to the ER. We are aware of several new species from Honduras, though some are recognized as also occurring in other areas of Central America. In a few cases, such as in the Pterophoridae, though not necessarily endemic, the new species are known from Honduras only from PBL specimens.

Honduras, as a critical part of the Mesoamerican biodiversity "hot spot" has much to offer in the study of Lepidoptera and other organisms. In addition, studies of fluctuating distributions and evolutionary divergence patterns of taxa in Central America and the Caribbean Basin can provide insight to our understanding of phylogenies and divergence patterns within higher taxa. The present listing of taxa and review of previous works provide a foundation for further surveys and studies in the area. We welcome additions and corrections to the present list for future updates and encourage

individual publications of faunal records, life history studies, and revisionary works including material collected from past, present, and future surveys. This work not only contributes to science in general, but serves to increase the value and appreciation of the natural resources of this country for future generations of Honduran citizens.

Acknowledgments

We gratefully acknowledge Jose Manuel Mora Benavides, Director of the Biodiversity Center, and Oliver Schlein, Escuela Agricultura Zamorano, Honduras, for their invaluable assistance in making the facilities and the collection resources of the EAPZ available to us and aiding us with the permitting process. Permits for collection and export of study material were granted through Instituto Nacional de Conservación y Desarrolla Forestal, Área Protegidas y Vida Silvestre, Honduras. We have benefited from discussions with Ronald Cave, formerly of EAPZ, and now in the Department of Entomology and Nematology, University of Florida. Ron, along with Oliver Schlein, and George Pilz graciously shared information concerning the EAPZ collections and databases and also provided us with details on various collecting localities throughout Honduras. We are indebted to James Adams and the staff and directors of The Lodge at Pico Bonito, for their hospitality and for providing us logistical assistance in completing our surveys. We also thank Juan Alberto Hernández and Kelvin W. Bodden, Centro Universitario Regional del Litoral Atlantico for access to the CURLA reserve at Parque National Pico Bonito. Special thanks are due to J. Court Whelan and James B. Schlachta for assistance with travel arrangements.

In addition to the respective contributions of the authors, several colleagues, including Ulf Eitschberger, James K. Adams, James Hayden, Terry Dickel, and David Adamski, generously provided multiple determinations of species in their respective areas of expertise. Our communications with Dan Janzen and Winnie Hallwachs have also given us insight into the overall diversity in the region and the potential for undescribed species in various taxa. Authors JYM, DLM, TCE, and CVC would also like to thank the following individuals who provided good-humored camaraderie in the field, assisted with our field work, and/or supplied specimens and/or determinations resulting from their respective collecting activities in Honduras: Eric Anderson, Eddie Atamian, David Auth, Jorge Chavarria Bertrand, Kelvin Bodden, David G. Bridgnell, William H. Bridgnell, Richard C. Cramer, Chad T. Douglas, Collin M. Douglas, Matt Lehnert, Ron Leuschner, James Hanlon, Lowell N. Harris, Lawrence R. Hummer, Chris Livesay, David G. Marqua, Gerald M. McWilliams, Linda S. McWilliams, Iva Mihoci, Carlos Montúfar, Alfred Moser, Thomas V. Myers, Ichiro Nakamura, Bedros Orchanian, Arthur Ortegon, Tony Ortegon, John G. Pasko, Christian Salcedo, Ana Clariza Samayoa, Ian K. Segabarth, Bradley A. Stirn, Jon D. Turner, Nancy C. Turner, Gerald S. Wagner, J. Court Whelan, and Eckhard Wierig. MAS wishes to thank Mark Metz for support on the Pyraloidea.

Finally, and not in the least, we wish to thank James K. Adams, Dalton State College, Dalton, Georgia, Manuel A. Balcázar-Lara, Universidad de Colima, Mexico, Terry A. Lott, Florida Museum of Natural History, Paul E. Skelley, Florida State Collection of Arthropods, and Jennifer Zaspel, University of Wisconsin, Oshkosh for their helpful comments in improving the text, format, and content of the paper.

Literature Cited

Anderson, R. A. 2007. A list of Hesperiidae collected in Nicaragua, 1973-1976. Bulletin of the Allyn Museum 146: 1-19.

Austin, G. T., C. Méndez, and A. E. Launer. 1998. A preliminary checklist of Guatemala butterflies: Hesperiidae (Lepidoptera: Hesperioidea). Tropical Lepidoptera 9(suppl. 2): 8-18.

Austin, G. T., N. M. Haddad, C. Méndez, T. D. Sisk, D. D. Murphy, A. E. Launer, and P. R. Ehrlich. 1996. Annotated checklist of the Tikal National Park area of Guatemala. Tropical Lepidoptera 7(1): 21-37.

Barcode of Life Data Systems. 2011. BOLDSYSTEMS V 2.5. Taxonomy Browser. http://www.boldsystems.org/views/taxbrowser_root.php (Last accessed in May 2011).

Barnes, M. J. C. 2002. Moths of Belize, an illustrated catalogue of the larger moths of Belize. http://www.mbarnes.force9.co.uk/belizemoths/belizehome.htm (Last accessed in May 2011)

Barrios, M. V., C. Méndez, and G. Austin. 2006. Las Hesperiidae (Lepidoptera: Hesperioidea) de Guatemala. p. 431-439. *In*: E. B. Cano (ed.). Biodiversidad de Guatemala. Universidad del Valle de Guatemala; Guatemala. 674 p.

Brown, J. W. 1996. New generic assignment, new synonymy, and new distribution records for the neotropical genus *Icteralaria* (Razowski) (Lepidoptera: Tortricidae). Pan-Pacific Entomologist 72(3): 162-163.

Brown, J. W., J. Baixeras, R. Brown, M. Horak, F. Komai, E. Metzler, J. Razowski, and K. Tuck. 2005. Tortricidae (Lepidoptera). *In:* World Catalogue of Insects 5: 1-741.

Burns, J. M., and D. H. Janzen. 2001. Biodiversity of pyrrhopygine skipper butterflies (Hesperiidae) in the Area de Conservacion Guanacaste, Costa Rica. Journal of the Lepidopterists' Society 55: 15-43.

Burns, J. M., and D. H. Janzen. 2005a. Pan-neotropical genus *Venada* (Hesperiidae: Pyrginae) is not monotypic: Four new species occur on one volcano in the Area de Conservación Guanacaste, Costa Rica. Journal of the Lepidopterists' Society 59: 19-34.

Burns, J. M., and D. H. Janzen. 2005b. What's in a name? Lepidoptera: Hesperiidae: Pyrginae: Telemiades Hübner 1819 [*Pyrdalus* Mabille 1903]: New combinations *Telemiades corbulo* (Stoll) and *Telemiades oiclus* (Mabille). Proceedings of the Entomological Society of Washington 107: 770-781.

Burns, J. M., D. H. Janzen, M. Hajibabaei, W. Hallwachs, and P. D. N. Hebert. 2007. DNA barcodes of closely related (but morphologically and ecologically distinct) species of skipper butterflies (Hesperiidae) can differ by only one to three nucleotides. Journal of the Lepidopterists' Society 61: 138-153.

Burns, J. M., D. H. Janzen, M. Hajibabaei, W. Hallwachs, and P. D. N. Hebert. 2008. DNA barcodes and cryptic species of skipper butterflies in the genus Perichares in Area de Conservacion Guanacaste, Costa Rica. Proceedings of the National Academy of Sciences of the United States of America 105: 6350-6355.

Caballero, R., D. H. Habeck, and K. L. Andrews 1994. Clave ilustrada para larvas de Noctuidos de importancia economica de El Salvador, Honduras y Nicaragua. Ceiba 35(2): 225-237.

Carr, A. F. 1950. Outline for a classification of animal habitats in Honduras. Bulletin of the American Museum of Natural History 94(10): 563-594.

Cave, R. D. 1992. Inventory of parasitic organisms of the striped grass looper, *Mocis latipes* (Lepidoptera: Noctuidae), in Honduras. Florida Entomologist 75: 592-598.

Chacon, I., and J. Montero. 2007. Mariposas de Costa Rica. Instituto Nacional de Biodiversidad; Santo Domingo de Heredia, Costa Rica. 366 p.

Cramer, P. 1775-1782. De uitlandische Kapellen voorkomende in de drie Waereld-Deelen Asia, Africa en America. Papillons exotiques des trois parties du monde l'Asie, l'Afrique et l'Amériqe. S. J. Baalde, Amsteldam; Barthelemy Wild and J. Van Schoonhoven & Comp., Utrecht. 4 volumes: 1: 1-155, pl. 1-96; 2: 1-151, pl. 97-192; 3: 1-176, pl. 193-288; 4: 1-252, pl. 289-400.

Davidse, G., S. Sousa, and O. Chater (eds.). 1994. Flora Mesoamericana: volumen 6: Alismataceae a Cyperaceae. Missouri Botanical Garden, St. Louis; Universidad Nacional Autónoma de México, Instituto de Biologia, México, D.F., Mexico; The Natural History Museum, London, England. xvi, 543 p.

Davidse, G., S. Sousa, and S. Knapp (eds.). 1995. Flora Mesoamericana: volumen 1: Psilotaceae a Salviniaceae. Missouri Botanical Garden, St. Louis; Universidad Nacional Autónoma de México, Instituto de Biologia, México, D.F., Mexico; The Natural History Museum, London, England. xxi, 470 p.

Davidse, G., S. Sousa, S. Knapp, and F. Chiang. 2009. Flora Mesoamericana, Volume 4 (Part 1): Cucurbitaceae a Polemoniaceae. Missouri Botanical Garden, St. Louis; Universidad Nacional Autónoma de México, Instituto de Biologia, México, D.F., Mexico; The Natural History Museum, London, England. 885 p.

Davis, D. R. 1964. Bagworm moths of the Western Hemisphere (Lepidoptera: Psychidae). Bulletin of the United States National Museum 244: 1-233.

DeVries, P. J. 1983. Checklist of butterflies. p. 654-678. *In*: D. H. Janzen (ed.). Costa Rican Natural History. University of Chicago Press; Chicago. 816 p.

DeVries, P. J. 1987. The butterflies of Costa Rica and their natural history. Papilionidae, Pieridae and Nymphalidae. Princeton University Press; New Jersey. 327 p.

DeVries, P. J., I. A. Chacon, and D. Murray. 1994. Toward a better understanding of hostplant use and biodiversity in riodinid butterflies (Lepidoptera). Journal of Research on the Lepidoptera 31: 103-126.

DeVries, P. J. 1997. The butterflies of Costa Rica and their natural history. II: Riodinidae. Princeton University Press; New Jersey. 288 p.

Donnelly, T. W. 1992. Geological setting and tectonic history of Mesoamerica. p. 1-13. *In*: D. Quintero and A. Aiello (editors). Insects of Panama and Mesoamerica. Selected Studies. Oxford University Press; Oxford, UK. 692 p.

Druce, H. 1888. Descriptions of new species of Lepidoptera, chiefly from Central America. Annals and Magazine of Natural History 6(2): 234-242.

Druce, H. 1881-1900. Insecta, Lepidoptera-Heterocera. Biologia Centrali-Americana 1[1881-1900]: 1-490; 2[1891-1900]: 1-622; 3[1881-1900]: plates 1-101.

Eichlin, T. D., and S. Passoa. 1983. A new clearwing moth (Sesiidae) from Central America: a stem borer in *Mimosa pigra*. Journal of the Lepidopterists' Society 37(3): 193-206.

Epstein, M. E., and J. F. Corrales. 2004. Twenty-five new species of Costa Rican Limacodidae (Lepidoptera: Zygaenoidea). Zootaxa 701: 1-86.

Escribano, A., T. Williams, D. Goulson, R. D. Cave, J. W. Chapman, and P. Caballero. 2000a. Effect of parasitism on a nucleopolyhedrovirus amplified in *Spodoptera frugiperda* larvae parasitized by *Campoletis sonorensis*. Entomologia Experimentalis et Applicata 97: 257-264.

Escribano, A., T. Williams, D. Goulson, R. D. Cave, and P. Caballero. 2000b. Parasitoid-pathogen-pest interactions of *Chelonus insularis*, *Campoletis sonorensis*, and a nucleopolyhedrovirus in *Spodoptera frugiperda* larvae. Biological Control 19: 265-273.

Evans, W. H. 1951. A catalogue of the American Hesperiidae in the British Museum (Natural History). Part I. Introduction and Group A, Pyrrhopyginae. British Museum (Natural History); London. 92 p.

Evans, W. H. 1952. A catalogue of the American Hesperiidae in the British Museum (Natural History). Part II. Pyrginae Section 1. British Museum (Natural History); London. 178 p.

Evans, W. H. 1953. A catalogue of the American Hesperiidae in the British Museum (Natural History). Part III (groups E, F, G) Pyrginae. British Museum (Natural History); London. 246 p.

Evans, W. H. 1955. A catalogue of the American Hesperiidae in the British Museum (Natural History). Part IV. Hesperiinae and Megathyminae. British Museum (Natural History); London. 499 p.

Gielis, C. 2003. Pterophoridae & Alucitoidea. *In*: World Catalogue of Insects 4: 1-198.

Gielis, C. 2006. Review of the neotropical species of the family Pterophoridae, part I: Ochyroticinae, Deuterocopinae, Pterophorinae (Platyptiliini, Exelastini, Oxyptilini) (Lepidoptera). Zoologische Mededelingen, Leiden 80-2 (1): 1-290.

Godman, F. D. 1901. Introduction. Insecta. Lepidoptera-Rhopalocera. Biologia Centrali-Americana 1: i-xiv.

Godman, F. D., and O. Salvin. 1877. Description of twelve new species and a new genus of Rhopalocera from Central America. Proceedings of the Zoological Society of London 1877(1): 60-64.

Godman, F. D., and O. Salvin. 1878a. Descriptions of new species of Central-American butterflies of the family Erycinidae. Proceedings of the Zoological Society of London 1878(2): 360-369.

Godman, F. D., and O. Salvin. 1878b. Descriptions of new species of Rhopalocera from Central and South America. Annals and Magazine of Natural History (5)2(9): 257-266.

Godman, F. D., and O. Salvin. 1878c. Descriptions of nineteen new species of diurnal Lepidoptera from Central America. Proceedings of the Zoological Society of London 1878(1): 264-271.

Godman, F. D., and O. Salvin. 1889. Descriptions of new species of Rhopalocera from Mexico and Central America. Annals and Magazine of Natural History (6)3(16): 351-358.

Godman, F. D., and I. O. Salvin. 1879-1901. Insecta, Lepidoptera-Rhopalocera. Biologia Centrali-Americana. 1[1879-1901]: 1-487, 2[1887-1901]: 1-782, 3[1879-1901]: plates 1-112.

Gose, W. A. 1985. Caribbean tectonics from a paleomagnetic perspective. p. 285-301. *In*: F. A. Stehli and S. D. Webb (eds.). The great American biotic interchange. Plenum Press; N. Y. 532 p.

Gregory, B. M., Jr. 1987. Observations on velvetbean caterpillar (Lepidoptera: Noctuidae) in a hyacinth bean field in Honduras. Florida Entomologist 70(2): 296-297.

Hall, J. P. W. 1999. A revision of the genus *Theope*. Its systematics and biology (Lepidoptera: Riodinidae: Nymphidiini). Scientific Publishers; Gainesville, Florida. viii + 128 p.

Hampson, G. F. 1898-1913. Catalogue of the Lepidoptera Phalaenae in the collection of the British Museum. Trustees of the British Museum of Natural History; London. 1[1898]: 1-559, plates I-XVII, 2[1900]: 1-589, VIII-XXXV, 3[1901]: 1-690, XXXVI-LIV, 4[1903]:LV-LXXVII, 5[1905]: 1-634, LXXVIII-XCV, 6[1906]: XCVI-CVII, 7[1908]: 1-709, CVIII-CXXII, 8[1909]: 1-583, CXXIII-CXXXVI, 9[1910]:1-552, CXXXVII-CXLVII, 10[1910]: 1-829, CXLVIII-CLXXIII, 11[1912]: 1-689, CLXXIV-CXCI, 12[1913]: 1-626, CXCII-CCXXI, 13[1913]: 1-609, CCXXII-CCXXXIX.

Hampson, G. F. 1914. Catalogue of the Lepidoptera Phalaenae in the collection of the British Museum, Supplement Vol.1, Amatidae, Nolinae & Lithosiinae. Trustees of the British Museum of Natural History; London. 824 p.

Hampson, G. F. 1920. Catalogue of the Lepidoptera Phalaenae in the collection of the British Museum, Supplement Vol. 2, Arctiinae & Phalaenoididae. Trustees of the British Museum of Natural History; London. 619 p.

Hebert, P. D. N., E. H. Penton, J. M. Burns, D. H. Janzen, and W. Hallwachs. 2004. Ten species in one: DNA barcoding reveals cryptic species in the neotropical skipper butterfly *Astraptes fulgerator*. Proceedings of the National Academy of Sciences of the United States of America 101(41): 14812-14817.

Heppner, J. B. 1984. Atlas of neotropical Lepidoptera, Checklist: Part 1. Micropterigoidea-Immoidea. Dr. W. Junk Publishers; The Hague, The Netherlands. 112 p.

Heppner, J. B. 1995. Atlas of neotropical Lepidoptera, Checklist: Part 2. Hyblaeoidea-Pyraloidea-Tortricoidea. Association for Tropical Lepidoptera and Scientific Publishers; Gainesville, Florida. 243 p.

Heppner, J. B. 1996. Atlas of neotropical Lepidoptera, Checklist: Part 4B. Drepanioidea-Bombycoidea-Sphingoidea. Association for Tropical Lepidoptera and Scientific Publishers; Gainesville, Florida. 243 p.

Holdridge, L. R. 1967. Life zone ecology (rev. ed.). Tropical Science Center; San Jose, Costa Rica. 206 p.

Howard, F. W., and M. A. Solis. **1989**. Distribution, life history, and host plant relationships of mahogany webworm, *Macalla thyrsisalis* (Lepidoptera: Pyraloidea). Florida Entomologist 72 (3): 469-479.

Iturralde-Vinent, M. A., and R. D. E. MacPhee. 1999. Paleogeography of the Caribbean region: implications for Cenozoic biogeography. Bulletin of the American Museum of Natural History 238: 1-95.

Janzen, D. H., and W. Hallwachs. 2010. Dynamic database for an inventory of the macrocaterpillar fauna, and its food plants and parasitoids, of Area de Conservacion Guanacaste (ACG), northwestern Costa Rica. http://janzen.sas.upenn.edu (Last accessed in May 2011).

Janzen, D. J., W. Hallwachs, + 43 authors. 2009. Integration of DNA barcoding into an ongoing inventory of complex tropical biodiversity. Molecular Ecology Resources 9: 1-26.

Jenkins, D. W. 1983. Neotropical Nymphalidae I. Revision of *Hamadryas*. Bulletin of the Allyn Museum 81: 1-146.

Jenkins, D. W. 1984. Neotropical Nymphalidae II. Revision of *Myscelia*. Bulletin of the Allyn Museum 87: 1-64.

Jenkins, D. W. 1985a. Neotropical Nymphalidae. III. Revision of *Catonephele*. Bulletin of the Allyn Museum 92: 1-65.

Jenkins, D. W. 1985b. Neotropical Nymphalidae. IV. Revision of *Ectima*. Bulletin of the Allyn Museum 95: 1-30.

Jenkins, D. W. 1986. Neotropical Nymphalidae. V. Revision of *Epiphile*. Bulletin of the Allyn Museum 101: 1-70.

Jenkins, D. W. 1989. Neotropical Nymphalidae. VII. Revision of *Nessaea*. Bulletin of the Allyn Museum 125: 1-38.

Jenkins, D. W. 1990. Neotropical Nymphalidae. VIII. Revision of *Eunica*. Bulletin of the Allyn Museum 131: 1-177.

Kirby, W. F. 1892. A synonymic catalogue of Lepidoptera Heterocera. Vol. I. Sphinges and Bombyces. Gurney & Jackson; London. 951 p.

Lafontaine, J. D., and B. C. Schmidt. 2010. Annotated check list of the Noctuoidea (Insecta, Lepidoptera) of North America north of Mexico. ZooKeys 40: 1-239.

Lahousse, R. 2009. Hétérocères de Guyane Française. http://www.guianensis.fr/index.htm (Last accessed in May 2011).

Lamas, G. 2004. Checklist of Hesperioidea and Papilionoidea. Atlas of neotropical Lepidoptera. Part 4A. Association for Tropical Lepidoptera & Scientific Publishers; Gainesville, Florida. 439 p.

Lehman, R. D. 1971. Some Sphingidae of Honduras. Journal of the Lepidopterists' Society 25(2): 150-152.

Lemaire, C. 1971. Revision du Genre *Automeris* Hübner et des genres voisins. Biogéographie, éthologie, morphologie, taxonomie (Lep. Attacidae). Memoires du Museum National d'Histoire Naturelle (Nouv, Ser.), Ser. A, Zoologie, Paris, 68: [1]-232; 1-29pl.

Lemaire, C. 1973. Revision du Genre *Automeris* Hübner et des genres voisins. Biogéographie, éthologie, morphologie, taxonomie (Lep. Attacidae). Memoires du Museum National d'Histoire Naturelle (Nouv, Ser.), Ser. A, Zoologie, Paris, 79: [1]-233-492; 30-49 pl.

Lemaire, C. 1974. Revision du Genre *Automeris* Hübner et des genres voisins. Biogéographie, éthologie, morphologie, taxonomie (Lep. Attacidae). Memoires du Museum National d'Histoire Naturelle (Nouv, Ser.), Ser. A, Zoologie, Paris, 92: [1]-423-576; 50-61 pl.

Lemaire, C. 1978. Les Attacides Americains (= Saturniidae). 1. Attacinae. Published by the author; Heuilly-sur-Seine. 238 p., 49 plates.

Lemaire, C. 1980. Les Attacides Americains (= Saturniidae). 2. Arsenurinae. Published by the author; Heuilly-sur-Seine. 200 p., 76 plates.

Lemaire, C. 1988. Les Saturniidae Americains. (= Attacidae). 3. Ceratocampinae. Museo Nacional de Costa Rica; San Jose. 479 p., 64 plates.

Lemaire, C. 2002. The Saturniidae of America. Les Saturniidae Americains (= Attacidae). 4. Hemileucinae. Goecke & Evers; Keltern. Part A: 1-688; B 689-1388; C: 1-126, ES1-ES14.

Maes, J.-M. 2006. Papilionidae (Lepidoptera) de Nicaragua. Revista Nicaragüense de Entomología 66 (Suplemento 3): 1-241.

Maes, J.-M. 2007. Pieridae (Lepidoptera) de Nicaragua. Revista Nicaragüense de Entomología 67 (Suplemento 1): 1-313.

Matthews, D. L. 2006. Larvae and pupae of Nearctic Pterophoridae: A synopsis of life histories, morphology, and taxonomy (Lepidoptera: Pterophoroidea). Unpublished PhD Dissertation. University of Florida; Gainesville. 959 p.

Matthews, D. L., and T. A. Lott. 2005. Larval hostplants of the Pterophoridae (Lepidoptera: Pterophoroidea). Memoirs of the American Entomological Institute 76: 1-324.

Matthews, D. L., and J. Y. Miller. 2010. Notes on the cacao plume moth in Honduras and description of the larvae and pupae (Lepidoptera: Pterophoridae). Tropical Lepidoptera Research 20(1): 28-34.

Matthews, D. L., J. Y. Miller, and J. Razowski. 2011. Scientific note: *Mictopsichia cubae* recorded from Honduras (Lepidoptera: Tortricidae). Tropical Lepidoptera Research 21(1): 43-45.

Meerman, J. C. 1999. Lepidoptera of Belize. 1. Catalog of butterflies (Lepidoptera: Papilionoidea). Tropical Lepidoptera 10 (Supplement 1): 7-32.

Meerman, J. C., and T. Boomsma. 1993. Checklist of the butterflies of the Shipstern Nature Reserve. Occasional Papers of the Belize Natural History Society 2(3): 37-46.

Miller, J. S. 2009a. Generic revision of the Dioptinae (Lepidoptera: Noctuoidea: Notodontidae) Part 1. Dioptini. Bulletin of the American Museum of Natural History 321: 1-674.

Miller, J. S. 2009b. Generic Revision of the Dioptinae (Lepidoptera: Noctuoidea: Notodontidae) Part 2. Josini. Bulletin of the American Museum of Natural History 321 (2): 675-971, 48 pl.

Miller, J. Y. 1972. Review of the Central American *Castnia inca* complex (Castniidae). Bulletin of the Allyn Museum 6: 1-13.

Miller, J. Y. 1986. The taxonomy, phylogeny, and zoogeography of the neotropical moth subfamily Castniinae (Lepidoptera: Castnioidea: Castniidae). Unpublished PhD Dissertation. University of Florida; Gainesville. 571 p.

Miller, J. Y., and L. D. Miller. 2001. The biogeography of the West Indian butterflies (Lepidoptera): An application of a Vicarian/Dispersalist Model. p. 127-155. *In*: C. A. Woods and F. E. Sergile (eds.). Biogeography of the West Indies, patterns and perspectives. 2nd edition. CRC Press; Boca Raton, FL. 582 p.

Miller, J. Y., and A. Sourakov. 2009. Scientific Note: Some observations on *Amauta cacica procera* (Boisduval) (Castniidae: Castniinae) in Costa Rica. Tropical Lepidoptera Research 19: 113-114.

Miller, L. D. 1974. Revision of the Euptychiini (Satyridae). 2. *Cyllopsis* R. Felder. Bulletin of the Allyn Museum 20: 1-98

Miller, L. D. 1976. Revision of the Euptychiini (Satyridae). 3. *Megisto* Hübner. Bulletin of the Allyn Museum 33: 1-23.

Mittermeier, R. A., N. Myers, and C. G. Mittermeier (eds.). 1999. Hotspots. Earth's biologically richest and most endangered terrestrial ecoregions. CEMEX, S.A.; Mexico City, Mexico. 431 p.

Molina R., A. 1975. Enumeración de las plantas de Honduras. Ceiba 19(1): 1-118.

Moth Photographers Group. 2011. North American Moth Photographers Group at the Mississippi Entomological Museum at Mississippi State University. Digital guide to moth identification. http://mothphotographersgroup.msstate.edu/MainMenu.shtml (Last accessed May 2011).

Monroe, R. S., and L. D. Miller. 1967. A report on a collection of Hesperiidae from Honduras. Journal of the Lepidopterists' Society 21: 243-247.

Monroe, R. S., G. N. Ross, and R. N. Williams. 1967. A report on two recent collections of butterflies from Honduras. Journal of the Lepidopterists' Society 21: 185-197.

Munroe, E. G., V. O. Becker, J. Shaffer, M. Shaffer, and M. A. Solis. 1995. Pyraloidea. p. 80-105. *In*: J. B. Heppner (ed.). Atlas of neotropical Lepidoptera. Checklist: Part 2. Hyblaeoidea - Pyraloidea – Tortricoidea. Association of Tropical Lepidoptera; Gainesville, FL. 243 p.

Nuss, M., B. Landry, F. Vegliante, A. Tränkner, R. Mally, J. Hayden, A. Segerer, H. Li, R. Schouten, M. A. Solis, T. Trofimova, J. De Prins, and W. Speidel. 2003–2011. Global Information System on Pyraloidea. – http://www.pyraloidea.org (Last accessed in May 2011).

Ovalle, G. O., and R. D. Cave. 1989. Determinación de resistência de *Plutella xylostella* L. (Lepidoptera: Plutellidae) a insecticidas comunes en Honduras. Ceiba 30:119-128.

Passoa, S. 1982. *Eutachyptera psidii* (Sallé) in Honduras (Lepidoptera: Lasiocampidae). Florida Entomologist 65: 379-381

Passoa, S. 1983. Immature stages of *Anacamptodes herse* (Schaus) (Geometridae) on soybean in Honduras. Journal of the Lepidopterists' Society 37(3): 217-223.

Passoa, S. 1985. Taxonomy of the larvae and pupae of economically important Pyralidae in Honduras. Unpublished MS Thesis. University of Florida; Gainesville. 2 v., xl, 486 p.

Passoa, S. 1991. Color identification of economically important *Spodoptera* larvae in Honduras (Lepidoptera: Noctuidae). Insecta Mundi 5(3/4): 185-196.

Passoa, S., and D. H. Habeck. 1987. A description of the larva and pupa of *Rupela albinella* (Cramer), a pest of rice in Latin America (Lepidoptera: Pyralidae: Schoenobiinae). Florida Entomologist 70(3): 368-375.

Passoa, S., and B. A. Steinly. 1992. Egg morphology of *Draconia rusina* Druce from Honduras (Lepidoptera: Thyrididae). Proceedings of the Entomological Society of Washington 94(4): 556-558.

Pelham, J. P. 2008. A catalogue of the butterflies of the United States and Canada with a complete bibliography of the descriptive and systematic literature. Journal of Research on the Lepidoptera 40: i-xiv,1-658.

Perlo, B. van. 2006. Birds of Mexico and Central America. Princeton University Press; Princeton. 336 p.

Phillips R., E. 2001. Mariposas Nocturnas Acuáticas, Crambidae: Nymphulinae. INBio. http://www.inbio.org/papers/mariposas_nocturnas/index.html. (Last accessed in May 2011).

Pindell, J., and J. F. Dewy. 1982. Permo-Triassic reconstruction of western Pangea and the evolution of the Gulf of Mexico/Caribbean region. Tectonics 1: 179-211.

Pitkin, L. M. 1993. Neotropical emerald moths of the genera *Nemoria*, *Lissochlora* and *Chavarriella*, with particular reference to the species of Costa Rica (Lepidoptera: Geometridae, Geometrinae). Bulletin of the Natural History Museum 62 (2): 40-159.

Pitkin, L. M. 1996. Neotropical emerald moths: a review of the genera (Lepidoptera: Geometridae, Geometrinae). Zoological Journal of the Linnean Society 118: 209-440.

Poole, R. W. 1987. A taxonomic revision of the New World moth genus *Pero*. USDA Technical Bulletin 1698: 1-257.

Poole, R. W. 1989. Noctuidae, Part I-III. *In*: J. B. Heppner (ed.). Lepidopterorum Catalogus, (new series) Fascicle 118 Noctuidae. E. J. Brill; Leiden. i-xii + 1-500, 501-1013, 1015-1314.

Powell, J. A. 1973. A systematic monograph of New World ethmiid moths (Lepidoptera: Gelechioidea). Smithsonian Contributions to Zoology 120: 1-302.

Pozo, C., A. Luis-Martínez, J. Llorente-Bousquets, N. Salas-Suárez, A. Maya-Martínez, I. Vargas-Fernández, and A. D. Warren. 2008. Seasonality and phenology of the butterflies (Lepidoptera: Papilionoidea and Hesperioidea) of Mexico's Calakmul Region. Florida Entomologist 91(3): 17-27.

Pozo, C., A. M. Luis, S. T. Uc, N. S. Salas, and A. M. Maya. 2003. Butterflies (Papilionoidea and Hesperioidea) of Calakmul, Campeche, México. The Southwestern Naturalist 48(4): 505-525.

Ratcliffe, B. C. 2000. Dynastine scarab beetles of Monteverde. p. 111-113. *In*: N. M. Nadkarni and N. T. Wheelwright (eds.). Monteverde. Ecology and conservation of a tropical cloud forest. Oxford University Press; New York. 608 p.

Ratcliffe, B. C. 2001. New species of *Hemiphileurus* Kolbe (Coleoptera: Scarabaeidae: Dynastinae) from Mexico, Guatemala, Colombia, and Brazil. Coleopterists Bulletin 55: 433-443.

Ratcliffe, B. C. 2003. New species of *Hemiphileurus* Kolbe from Honduras and Guatemala (Coleoptera: Scarabaeidae: Dynastinae: Phileurini). Coleopterists Bulletin 57: 334-338.

Ratcliffe, B. C., and R. D. Cave. 2002. New species of *Cyclocephala* from Honduras and El Salvador (Coleoptera: Scarabaeidae: Dynastinae: Cyclocephalini). Coleopterists Bulletin 56: 152-157.

Ratcliffe, B. C., and R. D. Cave. 2006a. The dynastine scarab beetles of Honduras, Nicaragua, and El Salvador. Bulletin of the University of Nebraska State Museum 21: 1-424.

Ratcliffe, B. C., and R. D. Cave. 2006b. Checklist of the Dynastinae of Honduras, Nicaragua, and El Salvador. http://www.unl.edu/museum/research/entomology/database2/checklist.html (last accessed in May 2011).

Ratcliffe, B. C., and R. D. Cave. 2008. A biotic survey and inventory of the dynastine scarab beetles of Central America, North America, and the Caribbean Regions: review of a long term, multi-country project. Zoosystema 30: 651-663.

Raven, P. H., and D. I. Axelrod. 1974. Angiosperm biogeography and past continental movements. Annals of the Missouri Botanical Garden 61: 539-673.

Razowski, J. 1986. List of neotropical *Aethes* Billb. and *Aethesoides* Raz. (Lepidoptera, Tortricidae) with description of new species. Annales Zoologici (Warsaw) 40(6-8): 387-396.

Razowski, J., and V. O. Becker 2007. Systematic and faunistic data on neotropical Cochylini, with description of new species. Part 3 (Lepidoptera: Tortricidae). SHILAP Revista de Lepidopterologia 35: 67-86.

Salinas-Gutiérrez, J. L., C. Méndez, M. Barrios, C. Pozo, and J. Llorente-Bousquets. 2009. Hacia una síntesis de los Papilionoidea (Insecta: Lepidoptera) de Guatemala con unareseña histórica. Caldasia 31(2): 407–440.

Samayoa, A. C., and R. D. Cave 2008. Catálogo de las especies de Sphingidae (Lepidoptera) en Honduras. Ceiba 49(1): 103-117.

Schaus, W. 1920. New species of Lepidoptera in the United States National Museum. Proceedings of the United States National Museum 57(2307): 107-152.

Scoble, M. J. 1999. Geometrid moths of the World: A catalogue (Lepidoptera, Geometridae). CSIRO Publishing; Collingwood, Victoria. 1304 p.

Seitz, A. [1907]-1924. Macrolepidoptera of the World. The American Rhopalocera. Alfred Kernen; Stuttgart. 1139 p.

Shuey, J. A., V. Giles, J. Meerman, P. Labus, C. W. Schutte, and P. Kovarik. 2005. New additions to the butterflies of Belize. Journal of the Lepidopterists' Society 59(2): 83-88.

Smith, D. L. 1985. Caribbean Plate relative motions. p. 17-48. *In*: F. A. Stehli and S. D. Webb (eds.). The great American biotic interchange. Plenum Press; New York. 532 p.

Smith, A. G., and J. C. Breden. 1977. Mesozoic and Cenozoic paleocontinental maps. Cambridge University Press; Cambridge. 64 p.

Smithsonian Institution. 2011. Smithsonian National Museum of Natural History, USNM Lepidoptera Collections. http://entomology.si.edu/collections_leps.html (Last accessed in May 2011).

Solis, M. A., and L. Styer. 2003. Revision and phylogenetic analysis of *Accinctapubes* Solis (Lepidoptera: Pyralidae: Epipaschiinae), including a new species from Costa Rica and a larval description of *A. albifasciata* (Druce) that feeds on avocado. Journal of the Lepidopterists' Society 57(2): 121-136.

Sponagel, K. W., and F. J. Díaz. 1994. El minador de la hoja de los cítricos *Phyllocnistis citrella*. Un insecto plaga de importancia económica en la citricultura de Honduras. Fundación Hondureña de Investigación Agrícola; Honduras. 31 p.

Steinhauser, S. R. 1975. An annotated list of the Hesperiidae of El Salvador. Bulletin of the Allyn Museum 29: 1-34.

Sutherland, C. H. N. 1986. Plantas Comunes de Honduras. Tomo I. Editorial Universitaria; Tegucigalpa, Honduras. 438 p.

Sutherland, C. H. N. 1996. La flora de Honduras en la Biologia Centrali-Americana, de Hemsley. Fontqueria 44: 53-68.

Thiaucourt, P. 2002. Descriptions of a *Nystalea discalis* species complex, of a sister species for *N. nystalina* (Draudt), and of *N. clotho* n. sp., meso-american species and its Peruvian sub-species. Nouvelle Revue d'Entomologie 19(4): 361-372.

Thiaucourt, P. 2007. *Symmerista* Huebner (1821) description d'especes nouvelles Mesoamericaines (Lepidoptera, Notodontidae). Lambillionea 107(4) Supplement: 531-538.

Thiaucourt, P. 2008. Notes sur les genres *Pentobesa* Schaus, 1901 et *Bahaid* Dyar, 1924 (Lepidoptera, Notodontidae). Nouvelle Revue d'Entomologie 24(4): 291-319.

Toulgoët, H. de. 1996. Description de nouvelles especes d'arctiides d'Amerique centrale (48e note) (Lepidoptera, Arctiidae, Arctiinae). Revue Francaise d'Entomologie (Nouvelle Serie) 17(4): 145-148.

Toulgoët, H. de. 1997. Description d'une nouvelle arctiide d'Amerique Central (Lépidoptères Arctiidae, Arctiinae). (52e note). Lambillionea 97: 45-48.

Tucker, C. M., D. K. Munroe, H. Nagendra, and J. Southworth. 2005. Comparative spatial analyses of forest conservation and change in Honduras and Guatemala. Conservation and Society 3: 174-200.

Walker, F. 1854-1866. List of the specimens of lepidopterous insects in the collection of the British Museum. Trustees of the British Museum of Natural History; London. 1-7 [1854-1856]: 1-1808, 8 [1856]: 1-271, 9-15 [1856-1858]: 1-1888, 16-19 [1858-1859]: 1-1036, 20-26 [1860-1863]: 1-1796; 27-30 [1863-1864]: 1-1096, 31-35 [1864-1866]: 1-2040.

Walsingham, M. A. 1915. Insecta. Lepidoptera-Heterocera. Vol. IV. Tineina, Pterophorina, Orneodina, and Pyralidina and Hepialina (part). Biologia Centrali-Americana 4: 1-482.

Warren, A. D., K. J. Davis, N. V. Grishin, J. P. Pelham, and E. M. Stangeland. 2011. Interactive Listing of American Butterflies. http://www.butterfliesofamerica.com/ (Last accessed in May 2011).

Watson, A., and D. T. Goodger. 1986. Catalogue of the neotropical tiger moths. Occasional Papers on Systematic Entomology of the British Museum (Natural History) 1: 1-71.

Webb, S. D. 1978. A history of savanna vertebrates in the New World, part 11: South America and the great interchange. Annual Review of Ecology and Systematics 9: 393-426.

Webb, S. D. 1985. Late Cenozoic mammal dispersals between the Americas. p. 357-386. *In*: F. G. Stehli and S.D. Webb (eds.). The great American biotic interchange. Plenum Press; New York. 532 p.

Webb, S. D. 1991. Ecogeography and the great American interchange. Paleobiology 17: 266-280.

Webb, S. D. 2006. The great American biotic interchange: Patterns and processes. Annals Missouri Botanical Gardens 93: 245-257.

Willmott, K. R. 2003. The genus *Adelpha*: Its systematics, biology and biogeography (Lepidoptera: Nymphalidae: Limenitidini). Scientific Publishers; Gainesville. 322 p.

Received August 22, 2011; Accepted February 1, 2012.
Subject editor J. Zaspel.