PLATE 1 (pp. 50-63). Figs. 32-38, a,c,e,g, dorsal surface; b,d,f,h, ventral surface. **32a,b**: *A. bredowii bredowii*, Mexico; **c,d**: *A. bredowii eulalia*, USA; **e,f**: *A. bredowii californica*, USA. **33a,b**: *A. diocles diocles*, Panama; **c,d**: *A. diocles creton*, Mexico. **34a,b**: *A. herbita*, S.E. Brazil. **35a,b**: *A. zea*, S.E. Brazil. **36a,b**: *A. paroeca paroeca*, Mexico; **c,d**: *A. paroeca paroeca*, Panama. **37a,b**: *A. nea nea*, E. Ecuador; **c,d**: *A. nea sentia*, Belize. **38a,b**: *A. paraena paraena*, E. Ecuador; **c,d**: *A. paraena lecromi*, W. Colombia; **e,f**: *A. paraena reyi*, Venezuela; **g,h**: *A. paraena massilia*, Costa Rica.

PLATE 2 (pp. 63-76). Figs. 39-41l, a,c,e,g,i,k, dorsal surface; b,d,f,h,j,l, ventral surface. **39a,b**: *A. radiata radiata*, S.E. Brazil; **c,d**: *A. radiata myrlea*, S. E. Brazil; **e,f**: *A. radiata explicator*, E. Ecuador; **g,h**: *A. radiata aiellae*, W. Ecuador; **i,j**: *A. radiata gilletella*, French Guiana. **40a,b**: *A. serpa serpa*, S.E. Brazil; **c,d**: *A. serpa diadochus*, Peru; **e,f**: *A. serpa celerio*, Guatemala; **g,h**: *A. serpa duiliae*, W. Ecuador. **41a,b**: *A. seriphia seriphia*, no locality; **c,d**: *A. seriphia pione*, Venezuela; **e,f**: *A. seriphia aquillia*, E. Ecuador; **g,h**: *A. seriphia godmani*, Mexico; **i,j**: *A. seriphia therasia*, Bolivia; **k,l**: *A. seriphia egregia*, N. Colombia.

PLATE 3 (pp. 76-78). Figs. 41m-45h, a,c,e,g, dorsal surface; b,d,f,h, ventral surface. **41m,n**: *A. seriphia barcanti*, Trinidad. **42a,b**: *A. hyas hyas*, S.E. Brazil; **c,d**: *A. hyas viracocha*, Peru; **e,f**: *A. hyas hewitsoni*, E. Ecuador. **43a,b**: *A. alala alala*, Venezuela; **c,d**: *A. alala negra*, Colombia; **e,f**: *A. alala negra*, Peru; **g,h**: *A. alala completa*, Colombia. **44a,b**: *A. aricia aricia*, Bolivia; **c,d**: *A. aricia serenita*, Peru; **e,f**: *A. aricia portunus*, Peru. **45a,b**: *A. corcyra corcyra*, [Colombia]; **c,d**: *A. corcyra salazari*, Colombia; **e,f**: *A. corcyra aretina*, E. Ecuador; **g,h**: *A. corcyra dognini*, S. Ecuador.

PLATE 4 (pp. 86-95). Figs. 45i-52, a,c,e,g,i, dorsal surface; b,d,f,h,j, ventral surface. **45i,j**: *A. corcyra collina*, W. Ecuador. **46a,b**: *A. tracta*, Costa Rica. **47a,b**: *A. pithys*, Mexico. **48a,b**: *A. donysa donysa*, Mexico; **c,d**: *A. donysa albifilum*, El Salvador; **e,f**: *A. donysa* ssp. nov.?, Guatemala. **49a,b**: *A. fessonia fessonia*, Costa Rica; **c,d**: *A. fessonia ernestoi*, Colombia; **e**: *A. fessonia ernestoi*, ♀, Colombia; **f**: *A. fessonia cestus*, ♀, Venezuela; **g,h**: *A. fessonia cestus*, Venezuela; **i,j**: *A. fessonia lapitha*, Dominican Republic. **50a,b**: *A. gelania gelania*, Dominican Republic; **c,d**: *A. gelania arecosa*, Puerto Rico. **51a,b**: *A. calliphane*, S.E. Brazil; **52a,b**: *A. poltius*, S.E. Brazil.

PLATE 5 (pp. 96-107). Figs. 53-59b, a,c,e,g,i, dorsal surface; b,d,f,h,j, ventral surface. **53a,b**: *A. mythra*, S.E. Brazil. **54a,b**: *A. basiloides*, Mexico; **c,d**: *A. basiloides*, W. Ecuador. **55a,b**: *A. plesaure plesaure*, S.E. Brazil; **c,d**: *A. plesaure phliassa*, Peru; **e,f**: *A. plesaure symona*, ♀, Trinidad; **g,h**: *A. plesaure pseudomalea*, ♀, Venezuela. **56a,b**: *A. gavina*, S.E. Brazil. **57a,b**: *A. falcipennis*, S.E. Brazil. **58a,b**: *A. thoasa thoasa*, Brazil; **c,d**: *A. thoasa manilia*, E. Ecuador; **e,f**: *A. thoasa calliphiclea*, Surinam; **g,h**: *A. thoasa gerona*, S.E. Brazil; **i,j**: *A. thoasa* ssp. nov.?, ♀, Brazil. **59a,b**: *A. thessalia thessalia*, E. Ecuador.

PLATE 6 (pp. 107-125). Figs. 59c-63h, a,c,e,g,i,k, dorsal surface; b,d,f,h,j,l, ventral surface. **59c,d**: *A. thessalia cesilas*, Bolivia; **e,f**: *A. thessalia indefecta*, Paraguay. **60a,b**: *A. iphiclus iphiclus*, French Guiana; **c,d**: *A. iphiclus iphiclus*, Venezuela; **e,f**: *A. iphiclus estrecha*, W. Ecuador; **g,h**: *A. iphiclus ephesa*, S.E. Brazil. **61a,b**: *A. iphicleola iphicleola*, Guatemala; **c,d**: *A. iphicleola leucates*, ♀, E. Brazil; **e,f**: *A. iphicleola iphimedia*, Cuba; **g,h**: *A. iphicleola gortyna*, Colombia; **i,j**: *A. iphicleola gortyna*, Colombia; **k,l**: *A. iphicleola thessalita*, E. Ecuador. **62a,b**: *A. abyla*, ♀, Jamaica. **63a,b**: *A. melona melona*, S.E. Brazil; **c,d**: *A. melona pseudarete*, S.E. Brazil; **e,f**: *A. melona leucocoma*, no locality; **g,h**: *A. melona neildi*, Panama.

PLATE 7 (pp. 125-138). Figs. 63I-67, a,c,e,g,i,k,m, dorsal surface (DS); b,d,f,h,j,l,n ventral surface (VS), unless stated otherwise. **63i,j**: *A. melona deborah*, W. Ecuador. **64a,b**: *A. ethelda ethelda*, W. Ecuador; **c,d**: *A. ethelda eponina* x *A. ethelda ethelda*, W. Colombia; **e,f**: *A. ethelda eponina*, W. Colombia; **g,h**: *A. ethelda zalmona*, [W. Colombia]; **i,j**: *A. ethelda sophax*, Costa Rica; **k,l**: *A. ethelda* ssp. nov., Mexico; **m,n**: *A. ethelda galbao*, French Guiana. **65a,b**: *A. epione epione*, S.E. Brazil; **c,d**: *A. epione agilla*, E. Colombia. **66a,b**: *A. syma*, S.E. Brazil. **67a,b**: *A. cytherea cytherea*, E. Ecuador; **c**: *A. cytherea marcia*, Mexico; **d**: *A. cytherea insularis*, Trinidad, DS; **e,f**: *A. cytherea aea*, S.E. Brazil; **g**: *A. cytherea daguana*, Venezuela; **h,i**: *A. cytherea daguana*, W. Ecuador, DS, VS; **j**: *A. cytherea daguana*, W. Colombia, DS; **k**: *A. cytherea olbia*, E. Colombia; **l,m**: *A. cytherea nahua*, Venezuela, DS, VS.

PLATE 8 (pp. 138-148). Figs. 68-72, a,c,e,g,i, dorsal surface; b,d,f,h,j, ventral surface. **68a,b**: *A. viola viola*, S.E. Brazil; **c,d**: *A. viola pseudococala*, N.E. Brazil. **69a,b**: *A. salmoneus salmoneus*, Venezuela; **c,d**: *A. salmoneus colada*, E. Ecuador; **e,f**: *A. salmoneus emilia*, W. Colombia; **g,h**: *A. salmoneus salmonides*, Nicaragua. **70a,b**: *A. demialba*, ♀, Costa Rica. **71a,b**: *A. epizygis epizygis*, S.E. Brazil; **c,d**: *A. epizygis epona*, S.E. Brazil. **72a,b**: *A. fabricia*, Colombia. **73a,b**: *A. capucinus capucinus*, locality unknown; **c,d**: *A. capucinus capucinus*, Amazons; **e,f**: *A. capucinus capucinus*, Peru; **g,h**: *A. capucinus velia*, S.E. Brazil; **i,j**: *A. capucinus gutierrezi*, Venezuela.

PLATE 9 (pp. 149-163). Figs. 74-81d, a,c,e, dorsal surface; b,d,f, ventral surface. **74a,b**: *A. barnesia barnesia*, Bolivia; **c,d**: *A. barnesia leucas*, Mexico; **e,f**: *A. barnesia trinita*, Trinidad. **75a,b**: *A. diazi*, Mexico. **76a,b**: *A. hesterbergi*, W. Ecuador. **77a,b**: *A. abia*, S.E. Brazil. **78a,b**: *A. naxia naxia*, E. Ecuador; **c,d**: *A. naxia hieronica*, Trinidad; **e,f**: *A. naxia oteroi*, Venezuela. **79a,b**: *A. heraclea heraclea*, E. Ecuador; **c,d**: *A. heraclea makkeda*, [Venezuela]; **e,f**: *A. heraclea antonii*, ♀, Venezuela. **80a,b**: *Adelpha atlantica*, S.E. Brazil. **81a,b**: *A. malea malea*, Venezuela; **c,d**: *A. malea aethalia*, E. Ecuador.

PLATE 10 (pp. 163-175). Figs. 81e-87, a,c,e,g,i, dorsal surface; b,d,f,h,j, ventral surface. **81e,f**: *A. malea goyama*, Paraguay; **g,h**: *A. malea ixia*, Venezuela; **i,j**: *A. malea fundania*, W. Colombia. **82a,b**: *A. boeotia boeotia*, Bolivia; **c,d**: *A. boeotia oberthurii*, Honduras; **e,f**: *A. boeotia fidicula*, ♀, S.E. Brazil. **83a,b**: *A. amazona*, Brazil. **84a,b**: *A. ximena ximena*, E. Ecuador; **c,d**: *A. ximena mossi*, Brazil. **85a,b**: *A. delinita delinita*, Ecuador; **c,d**: *A. delinita utina*, Honduras. **86a,b**: *A. pollina*, E. Ecuador. **87a,b**: *A. erotia erotia*, Peru; **c,d**: *A. erotia erotia*, Bolivia; **e,f**: *A. erotia caphira*, ♀, Venezuela.

PLATE 11 (pp. 175-189). Figs. 88-92l, a,c,e,g,i,k, dorsal surface; b,d,f,h,j,l, ventral surface, unless otherwise stated. **88a,b**: *A. phylaca phylaca*, Mexico; **c,d**: *A. phylaca pseudaethalia*, W. Ecuador; **e,f**: *A. phylaca joffrei*, ♀, Venezuela. **89a,b**: *A. messana messana*, Colombia; **c,d**: *A. messana* ssp. nov.?, W. Ecuador; **e,f**: *A. messana delphicola*, E. Ecuador. **90a,b**: *A. thesprotia*, E. Ecuador; **c,d**: *A. thesprotia* x *A. mesentina*, Peru. **91a,b**: *A. mesentina*, E. Ecuador; **c,d**: *A. mesentina*, E. Ecuador. **92a,b**: *A. lycorias lycorias*, S.E. Brazil; **c**: *A. lycorias lycorias*, S.E. Brazil; **d**: *A. lycorias lycorias*, ♀, S.E. Brazil, dorsal surface; **e,f**: *A. lycorias lara*, E. Ecuador; **g,h**: *A. lycorias melanippe*, W. Colombia; **i,j**: *A. lycorias melanthe*, Guatemala; **k,l**: *A. lycorias spruceana*, W. Ecuador.

PLATE 12 (pp. 189-201). Figs. 92m-100, a,c,e,g,i,k,m dorsal surface; b,d,f,h,j,l,n ventral surface. **92m,n**: *A. lycorias wallisii*, W. Colombia. **93a,b**: *A. attica attica*, E. Colombia; **c,d**: *A. attica hemileuca*, W. Ecuador. **94a,b**: *A. leuceria leuceria*, Mexico; **c,d**: *A. leuceria juanna*, W. Colombia. **95a,b**: *A. leucerioides*, Mexico. **96a,b**: *A. erymanthis erymanthis*, Costa Rica; **c,d**: *A. erymanthis esperanza*, ♀, Mexico; **e,f**: *A. erymanthis adstricta*, ♀, [W. Colombia]; **g,h**: *A. erymanthis fortunata*, W. Ecuador. **97a,b**: *A. sichaeus*, E. Ecuador. **98a,b**: *A. rothschildi*, W. Ecuador. **99a,b**: *A. stilesiana*, Costa Rica. **100a,b**: *A. boreas boreas*, Ecuador; **c,d**: *A. boreas kayei*, ♀, Guyana.

PLATE 13 (pp. 201-214). Figs. 101-105, a,c,e,g,i, dorsal surface; b,d,f,h,j, ventral surface. **101a,b**: *A. cocala cocala*, Amazon; **c,d**: *A. cocala didia*, S.E. Brazil; **e,f**: *A. cocala caninia*, S.E. Brazil; **g,h**: *A. cocala lorzae*, no locality; **i,j**: *A. cocala orellanae*, ♀, Venezuela. **102a,b**: *A. felderi*, Mexico. **103a,b**: *A. leucophthalma leucophthalma*, Costa Rica; **c,d**: *A. leucophthalma smalli*, Panama; **e,f**: *A. leucophthalma irminella*, W. Ecuador. **104a,b**: *A. irmina irmina*, ♀, Venezuela; **c,d**: *A. irmina tumida*, Peru; **e,f**: *A. irmina tumida* x *A. cocala cocala*, Peru. **105a,b**: *A. saundersii saundersii*, E. Ecuador; **c,d**: *A. saundersii helepecki*, Bolivia; **e,f**: *A. saundersii frontina*, W. Colombia.

PLATE 14 (pp. 214-225). Figs. 106-113, a,c,e,g,i,k,m, dorsal surface; b,d,f,h,j,l,n, ventral surface. **106a,b**: *A. lamasi*, W. Ecuador. **107a,b**: *A. salus salus*, ♀, W. Colombia; **c,d**: *A. salus emmeli*, ♀, W. Ecuador; **e,f**: *A. salus* ssp. nov., Mexico; **g,h**: *A. salus* ssp. nov., ♀, Costa Rica. **108a,b**: *A. shuara*, E. Ecuador. **109a,b**: *A. argentea*, E. Ecuador. **110a,b**: *A. coryneta*, Bolivia. **111a,b**: *A. jordani*, Peru; **c,d**: *A. jordani*, E. Ecuador. **112a,b**: *A. zina zina*, W. Colombia; **c,d**: *A. zina lacina*, ♀, Nicaragua; **e,f**: *A. zina enope*, E. Colombia; **g,h**: *A. zina irma*, Bolivia; **i,j**: *A. zina inachia*, N. Colombia; **k,l**: *A. zina desousae*, ♀, Venezuela; **m,n**: *A. zina pyrczi*, Venezuela. **113a,b**: *A. milleri*, Mexico.

PLATE 15 (pp. 225-230). Figs. 114-116, a,c,e,g,i,k, dorsal surface; b,d,f,h,j,l, ventral surface. **114a,b**: *A. justina justina*, [W. Colombia]; **c,d**: *A. justina justina*, W. Ecuador; **e,f**: *A. justina justinella*, Venezuela; **g,h**: *A. justina maira*, ♀, no locality; **i,j**: *A. justina inesae*, Venezuela; **k,l**: *A. justina valentina*, Bolivia. **115a,b**: *A. olynthia*, E. Ecuador; **c,d**: *A. olynthia*, Peru. **116a,b**: *A. levona*, W. Colombia.

PLATE 16. Figs. 117-122. Immature stages of *Adelpha*, all lateral view unless stated; P - pupa, L - fifth instar larva; Costa Rica for J. Mallet, El Salvador for A. Muyshondt. **117**: *A. serpa celerio*, P, dorsal view (J. Mallet). **118**: *A. donysa albifilum*, **a**: P; **b**: L (both A. Muyshondt). **119**. *A. basiloides*, P (J. Mallet). **120**. *A. cytherea marcia*, P (J. Mallet). **121**. *A. phylaca pseudaethalia*, **a**: P; **b**: L (both J. Mallet). **122**. *A. leuceria* (?), P (A. Muyshondt).

Figs. 124-133. Male genitalia of *Adelpha*, lateral view. **124a**: *A. bredowii eulalia*; **b**: *A. bredowii californica*, valva, setae omitted. **125a**: *A. diocles diocles*; **b**: *A. diocles creton*, valva, setae omitted. **126a**: *A. zea*, lateral view; **b**: *A. zea*, inside of valva. **127**: *A. paroeca paroeca*. **128a**: *A. nea nea*; **b**: *A. nea sentia*. **129:** *A. paraena paraena*.**130**: *A. radiata explicator*. **131**: *A. serpa serpa*. **132**: *A. seriphia godmani*. **133**: *A. hyas hewitsoni*.

Figs. 134-145. Male genitalia of *Adelpha*: a, lateral view; b, inside of valva; c, inside of valva, setae omitted. **134a,b**: *A. alala negra*. **135a,b**: *A. aricia serenita*. **136a,b**: *A. corcyra corcyra*; **c**: *A. corcyra aretina*. **137a,b**: *A. tracta*. **138a-c**: *A. pithys*. **139a,b**: *A. donysa albifilum*; **c**: *A. donysa donysa*. **140a,b**: *A. fessonia fessonia*; **c**: *A. fessonia lapitha*. **141a,b**: *A. gelania gelania*. **142a,b**: *A. calliphane*. **143a,b**: *A. poltius*. **144a,b**: *A. mythra*. **145a,b**: *A. basiloides*.

Figs. 146-156. Male genitalia of *Adelpha*: a, lateral view; b, inside of valva; c, inside of valva, setae omitted (unless stated otherwise). **146a,b**: *A. plesaure phliassa*. **147a,b**: *A. gavina*. **148a-c**: *A. falcipennis*. **149a,b**: *A. thoasa manilia*; **c**: *A. thoasa manilia*, dorsal view, setae omitted. **150a,b**: *A. thessalia cesilas*. **151a,b**: *A. iphiclus estrecha*. **152a,b**: *A. iphicleola thessalita*. **153a,b**: *A. abyla*. **154a,b**: *A. melona leucocoma*. **155a,b**: *A. ethelda sophax*. **156a,b**: *A. epione agilla*.

Figs. 157-167. Male genitalia of *Adelpha*: a, lateral view; b, inside of valva; c, inside of valva, setae omitted. **157a,b**: *A. syma*. **158a,b**: *A. cytherea daguana*; **c**: *A. cytherea nahua*. **159a,b**: *A. viola pseudococala*. **160a,b**: *A. salmoneus emilia*. **161a,b**: *A. demialba*. **162a,b**: *A. epizygis epizygis*. **163a,b**: *A. fabricia*. **164a,b**: *A. capucinus capucinus*. **165a,b**: *A. barnesia leucas*. **166a-c**: *A. diazi*. **167a,b**: *A. hesterbergi*.

Figs. 168-178. Male genitalia of *Adelpha*: a, lateral view; b, inside of valva; c, inside of valva, setae omitted. **168a-c**: *A. abia*. **169a,b**: *A. naxia naxia*. **170a,b**: *A. heraclea heraclea*; **c**: *A. heraclea makkeda*. **171a,b**: *A. atantica*, **sp. nov. 172a,b**: *A. malea fundania*; **c**: *A. malea aethalia*. **173a,b**: *A. boeotia oberthurii*; **c**: *A. boeotia boeotia*. **174a,b**: *A. amazona*. **175a,b**: *A. ximena ximena*; **c**: *A. ximena mossi*. **176a,b**: *A. delinita delinita*; **c**: *A. delinita utina*. **177a,b**: *A. pollina*. **178a,b**: *A. erotia erotia* (f. "lerna"); **c,d**: *A. erotia erotia* (f. "erotia"), d, outside of valva, setae omitted.

Figs. 179-188. Male genitalia of *Adelpha*: a, lateral view; b, inside of valva; c, inside of valva, setae omitted. **179a,b**: *A. phylaca pseudaethalia*. **180a,b**: *A. messana delphicola*. **181a-c**: *A. thesprotia*. **182a,b**: *A. mesentina*. **183a,b**: *A. lycorias melanthe*. **184a,b**: *A. attica hemileuca*. **185a,b**: *A. leuceria leuceria*. **186a,b**: *A. leucerioides*. **187a,b**: *A. erymanthis erymanthis*. **188a-c**: *A. sichaeus*.

Figs. 189-201. Male genitalia of *Adelpha*: a, lateral view; b, inside of valva; c, inside of valva, setae omitted. **189a,b**: *A. rothschildi*. **190a,b**: *A. stilesiana*. **191a,b**: *A. boreas boreas*. **192a,b**: *A. cocala cocala*. **193a,b**: *A. felderi*. **194a,b**: *A. leucophthalma leucophthalma*; **c**: *A. leucophthalma smalli*. **195a,b**: *A. irmina tumida*. **196a,b**: *A. saundersii saundersii*. **197a,b**: *A. lamasi*. **198a,b**: *A. salus* ssp. nov.; **c**: *A. salus salus*. **199a-d**: *A. shuara*, d, inside of valva, setae omitted. **200a,b**: *A. argentea*. **201a,b**: *A. coryneta*.

Figs. 202-207. Male genitalia of *Adelpha*: a, lateral view; b, inside of valva. **202a-c**: *A. jordani*, c, inside of valva, setae omitted. **203a,b**: *A. zina zina*; **c**: *A. zina pyrczi*, inside of valva; **d**: *A. zina irma*, inside of valva. **204a,b**: *A. milleri*. **205a,b**: *A. justina justina*; **c**: *A. justina valentina*, inside of valva, setae omitted. **206a,b**: *A. olynthia*. **207a,b**: *A. levona*.

Figs. 208-212. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view; c, perpendicular view of sclerotised bands on corpus bursae. **208a,b**: *A. bredowii californica*.**209a-c**: *A. diocles creton*. **210a-c**: *A. zea*. **211a,b**: *A. paroeca paroeca*.**212a-c**: *A. nea nea.*

Figs. 213-220. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view; c, perpendicular view of sclerotised bands on corpus bursae. **213a,b**: *A. paraena massilia.***214**: *A. radiata aiellae*, dorsal view.**215a-c**: *A. serpa serpa*. **216a,b**: *A. seriphia godmani*. **217a-c**: *A. hyas hyas*. **218a,b**: *A. alala negra*. **219a,b**: *A. corcyra corcyra*. **220a,b**: *A. tracta*.

Figs. 221-232. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view; c, perpendicular view of sclerotised bands on corpus bursae. **221a,b**: *A. pithys*. **222a,b**: *A. donysa donysa*. **223a,b**: *A. fessonia fessonia*. **224a,b**: *A. gelania gelania*. **225a,b**: *A. calliphane*. **226a,b**: *A. poltius*. **227a,b**: *A. mythra*. **228a-c**: *A. basiloides*.

Figs. 229-235. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view (unless stated otherwise); c, perpendicular view of sclerotised bands on corpus bursae. **229a-c**: *A. plesaure symona*. **230a,b**: *A. gavina*. **231a-d**: *A. falcipennis*, d, lateral view posterior tip of abdomen. **232a,b**: *A. thoasa gerona*, b, lateral view of posterior tip of abdomen. **233a,b**: *A. thessalia indefecta*. **234a,b**: *A. iphiclus iphiclus*. **235a,b**: *A. iphicleola iphicleola*.

Figs. 236-243. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view; c, perpendicular view of sclerotised bands on corpus bursae. **236a,b**: *A. abyla.* **237a-c**: *A. melona leucocoma*. **238a,b**: *A. ethelda sophax.* **239a,b**: *A. epione agilla.* **240a,b**: *A. syma.* **241a,b**: *A. cytherea daguana.* **242a-c**: *A. viola pseudococala.* **243a-c**: *A. salmoneus salmonides.*

Figs. 244-251. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view; c, perpendicular view of sclerotised bands on corpus bursae. **244a,b**: *A. demialba.* **245a-c**: *A. epizygis epizygis.* **246a-c**: *A. fabricia.* **247a,b**: *A. capucinus capucinus.* **248a,b**: *A. barnesia leucas.* **249a-c**: *A. diazi.* **250a,b**: *A. naxia naxia.* **251a,b**: *A. heraclea heraclea.*

Figs. 252-257. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view; c, perpendicular view of sclerotised bands on corpus bursae. **252a,b**: *A. malea aethalia*. **253a,b**: *A. boeotia boeotia*. **254a,b**: *A. amazona*. **255a,b**: *A. ximena mossi*. **256a-c**: *A. pollina*. **257a-c**: *A. erotia erotia* (f. "lerna").

Figs. 258-264. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view; c, perpendicular view of sclerotised bands on corpus bursae. **258a,b**: *A. phylaca pseudaethalia*. **259a,b**: *A. mesentina*. **260a-c**: *A. lycorias lycorias*. **261a,b**: *A. attica attica*. **262a,b**: *A. leuceria leuceria*. **263a-c**: *A. leucerioides*. **264a,b**: *A. erymanthis erymanthis*.

Figs. 265-273. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view. **265a,b**: *A. sichaeus*. **266a,b**: *A. rothschildi*. **267a,b**: *A. stilesiana*. **268a,b**: *A. boreas boreas*. **269a,b**: *A. cocala lorzae*. **270a,b**: *A. felderi*. **271a,b**: *A. leucophthalma leucophthalma*. **272a,b**: *A. irmina tumida*. **273a,b**: *A. saundersii saundersii*.

Figs. 274-280. Female genitalia of *Adelpha*: a, dorsal view; b, lateral view. **274a,b**: *A. lamasi*. **275**: *A. salus emmeli*. **276a,b**: *A. shuara*. **277a,b**: *A. coryneta*. **278a,b**: *A. jordani*. **279a,b**: *A. zina zina*. **280a,b**: *A. milleri*.

LITERATURE CITED

Abrams, P. A.
1995 Monotonic or unimodal diversity-productivity gradients: what does competition theory predict? *Ecology* (Tempe), 76(7):2019-2027.

Ackery, P. R.
1988 Host plants and classification: A review of nymphalid butterflies. *Biol. J. Linn. Soc.* (London), 33(2):95-203.

Ackery, P. R., and R. I. Vane-Wright
1984 Milkweed butterflies. Their cladistics and biology. Being an account of the natural history of the Danainae, a subfamily of the Lepidoptera, Nymphalidae. London: British Museum (Natural History). x+425 pp.

Adams, M. J.
1985 Speciation in the pronophiline butterflies (Satyridae) of the northern Andes. *J. Res. Lepid*. (Beverly Hills), Suppl. 1:33-49.

Adler, P. H.
1982 Soil and puddle-visiting habits of moths. *J. Lepid. Soc.* (Los Angeles), 36:161-173.

Aiello, A.
1984 *Adelpha* (Nymphalidae): Deception on the wing. *Psyche* (Cambridge), 91(1/2):1-45.
1991 *Adelpha ixia leucas*: immature stages and position within *Adelpha* (Nymphalidae). *J. Lepid. Soc.* (Los Angeles), 45(3):181-187.

Alayo, P., and L. R. Hernández
1987 *Atlas de las mariposas diurnas de Cuba (Lepidoptera: Rhopalocera)*. La Habana: Editorial Científico-Técnica. [viii]+148 pp.

Alcock, J.
1983 Territoriality by hilltopping males of the great purple hairstreak, *Atlides halesus* (Lepidoptera, Lycaenidae): convergent evolution with a pompilid wasp. *Behav. Ecol. Sociobiol.* (Berlin), 13:57-62.
1987 Leks and hilltopping in insects. *J. Nat. Hist.* (London), 21:319-328.

Andrade, M. G.
1994 Estudio de conservación y biodiversidad de las mariposas en dos zonas de bosque primario y secundario en Colombia (Insecta: Lepidoptera). *SHILAP Rev. Lepid.*, 22(86):147-181.

Arms, K., P. Feeny, and R. C. Lederhouse
1974 Sodium: stimulus for puddling behavior by tiger swallowtail butterflies, *Papilio glaucus*. *Science* (Washington), 185:372-374.

Attal, S., and A. Crosson du Cormier
1996 *The genus* Perisama. *Lepidoptera Nymphalidae*. Vennette: Sciences Nat. 149 pp.

Aurivillus, P. O. C.
1882 Recensio critica Lepidopterorum Musei Ludovicae Ulricae quae descripsit Carolus a Linné. *Kongl. Sven. Vetens.-Akadem. Handl.* (Ny Följd), 19(5) 1-188.

Austin, G. T.
1992 New and additional records of Costa Rican butterflies. *Trop. Lepid.* (Gainesville), 3(1) :25-33.

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 butterflies of the Tikal National Park area of Guatemala. *Trop. Lepid.* (Gainesville), 7(1):21-37.

Austin, G. T., and A. Jasinski
1999 Nymphalidae of Rondônia, Brazil: a new species of *Adelpha* from the Amazon basin (Lepidoptera: Limenitidinae). *Ann. Zool.* (Warsaw), 49(1/2):113-116.

Austin, G. T., and O. H. H. Mielke
1993. Two new nymphalid species from western Brazil (Lepidoptera: Nymphalidae). *Trop. Lepid.* (Gainesville), 4(2) :123-126.

Austin, G. T., and T. J. Riley
1995 Portable bait traps for the study of butterflies. *Trop. Lepid.* (Gainesville), 6(1):5-9.

Bailowitz, R. A., and J. P. Brock
1991 *Butterflies of Southeastern Arizona*. Tucson: Sonoran Arthropod Studies, Inc. ix+342 pp.

Balcázar-L., M., and K. R. Willmott
In press A new subspecies of *Adelpha erymanthis* from Mexico, with a key to identification of similar taxa (Lepidoptera: Nymphalidae: Limenitidinae). *Trop. Lepid*. (Gainesville), 11: in press.

Barcant, M.
1970 *Butterflies of Trinidad and Tobago*. London: Collins. 314 pp.

Bargmann, R.
1928 Neue exotische Falter. *Lepid. Rund.* (Stuttgart), 2(23):234-236.

Barselou, P.
1983 *The genus Agrias. A taxonomic and identification guide. (Lepidoptera: Nymphalidae)*. Compiègne: Sciences Nat. 96 pp.

Bates, H. W.
1862 Contributions to an insect fauna of the Amazon Valley. Lepidoptera: Heliconidae. *Trans. Linn. Soc. London* (London), 23(3):495-566.
1864 New species of butterflies from Guatemala and Panama, collected by Osbert Salvin and F. du Cane Godman, Esqs. *Entomol. Mon. Mag.* (London), 1(6):126-131.
1865 Contributions to an insect fauna of the Amazon Valley. Lepidoptera – Nymphalinae. *J. Entomol.* (London), 2(12):311-346.
1866 New species of butterflies from Guatemala and Panama, collected by Osbert Salvin and F. du Cane Godman, Esqs. *Entomol. Mon. Mag.* (London), 3(30):133-136.

Bates, J. M., and R. M. Zink
1994 Evolution into the Andes: molecular evidence for species relationships in the genus *Leptopogon*. *The Auk* (Washington), 111(3):507-515.

Beccaloni, G. W.
1997a Ecology, natural history and behaviour of ithomiine butterflies and their mimics in Ecuador (Lepidoptera: Nymphalidae: Ithomiinae). *Trop. Lepid.* (Gainesville), 8:103-124.
1997b Vertical stratification of ithomiine butterfly (Nymphalidae: Ithomiinae) mimicry complexes: the relationship between adult flight height and larval host-plant height. *Biol. J. Linn. Soc.* (London), 62:313-341.

Beccaloni, G. W., and K. J. Gaston
1994 Predicting the species richness of Neotropical forest butterflies: Ithomiinae (Lepidoptera: Nymphalidae) as indicators. *Biol. Cons.* (Barking), 71:77-82.

Beccaloni, G. W., Hall, S. K., and A. V. L. Viloria
In prep. *Host-plants of the Neotropical Butterflies: A Catalogue.*

Beutelspacher, C. R.
1975 Dos nuevas especies del genero *Adelpha* Hübner (Nymphalidae) de Mexico. *Rev. Soc. Mex. Lepid.* (Mexico), 1(2):31-37.
1976 Estudios sobre el genero *Adelpha* Hübner en Mexico (Lepidoptera: Nymphalidae). *Rev. Soc. Mex. Lepid.* (Mexico), 2(1) 8-14.
1980 *Mariposas diurnas del Valle de México*. México: Ediciones Científicas La Prensa Médica Mexicana. [viii]+134 pp.
1983 Mariposas diurnas de "El Chorreadero", Chiapas (Insecta: Lepidoptera). *Anal. Inst. Biol. Univ. Nac. Auton. Mex. (Zool.)* (Mexico), 53(1):341-366.

Bibby, C. J., N. J. Collar, M. J. Crosby, M. F. Heath, C. Imboden, T. H. Johnson, A. J. Long, A. J. Stattersfield, and S. J. Thirgood
1992 *Putting Biodiversity on the Map: Priority Areas for Global Conservation*. Cambridge: ICBP.

Biezanko, C. M.
1949 *II. Acraeidae, Heliconiidae et Nymphalidae de Pelotas e seus arredores. (Contribuição ao conhecimento da fisiografia do Rio Grande do Sul).* Pelotas: Livraria Globo. 16 pp.

Biezanko, C. M., A. Ruffinelli, and C. S. Carbonell
1957 Lepidoptera del Uruguay. Lista anotada de especies. *Rev. Facul. Agron. Univ. Repub.* (Montevideo), 46:1-152.
1966 Lepidoptera del Uruguay. Notas complementarias. III. *Boletín. Facul. Agron. Univ. Repub.* (Montevideo), 91:1-53.

Biezanko, C. M., A. Ruffinelli, and D. Link
1978 Catálogo de lepidópteros do Uruguai. Catalogue of Lepidoptera of the Republic of Uruguay. *Rev. Centro Ciênc. Rur.* (Santa Maria), 8(supl.):1-84.

Biodiversity Support Program, Conservation International, The Nature Conservancy, Wildlife Conservation Society, World Resources Institute, and World Wildlife Fund
1995 *A Regional Analysis of Geographic Priorities for Biodiversity Conservation in Latin America and the Caribbean*. Washington: Biodiversity Support Program. 140 pp.

Blanchard, E. E.
1928. Principales insectos y enfermedades que perjudican el cultivo de la yerba mate. *Circular. Minist. de Agricultura* (Buenos Aires), 735:1-42.

Blandin, P.
1978 Contribution à la biogéographie néotropicale: espèces endémiques, espèces polytypiques et super-espèces chez les Brassolinae (Lepidoptera-Satyridae). *Compte Rend. Séances Soc. Biogéog.* (Paris), 471:9-28.
1988 *The genus* Morpho. *Lepidoptera Nymphalidae. Part 1. The Sub-Genera* Iphimedeia *and* Schwartzia. Compiègne: Sciences Nat. viii+42 pp.
1993 *The genus* Morpho. *Lepidoptera Nymphalidae. Part 2. The Sub-Genera* Iphixibia, Cytheritis, Balachowskyna *and* Cypritis. Vennette: Sciences Nat. Pp. i-viii+43-98.

Boisduval, J. B. A. D. de
1836 *Suites à Buffon. Histoire Naturelles des Insectes. Spécies général des Lépidoptères*. Paris: Librairie Encyclopédique de Roret. 1:4+xii+690+6 pp., pl. 1A-4A, 1B-12B, 1C-8C [(= 1-24)].
1870 *Considérations sur des Lépidoptères envoyés du Guatemala à M. de l'Orza.* Rennes: Oberthür et fils. 1+100 pp.

Boggs, C. L.
1990 A general model of the role of male-donated nutrients in female insects' reproduction. *Am. Nat.* (Chicago), 136:598-617.
1995 *Male nutrient donation: phenotypic consequences and evolutionary implications*. *In*: Leather, S. R., and J. Hardie (Eds.), *Insect Reproduction*. New York: CRC Press. Pp. 215-242.

Boggs, C. L., and L. E. Gilbert
1979 Male contribution to egg production in butterflies: evidence for transfer of nutrients at mating. *Science* (Washington), 206:83-84.

Brévignon, C.
1995 Description et figuration de nouveaux Limenitidinae provenant de Guyane Française (Lepidoptera: Nymphalidae). *Bull. Soc. Sci. Nat.* (Venette), 83:14-18.

Brévignon, L., and C. Brévignon
1997 Papillons diurnes de Guyane. Nymphalidae-Limenitidinae. Echelle: 0.44 Serie des papillons diurnes de Guyane. Cayenne: authors. [poster]

Bristow, C. R.
1981 A revision of the brassoline genus *Catoblepia* (Lepidoptera: Rhopalocera). *Zool. J. Linn. Soc.* (London), 72(2):117-163.
1982 A revision of the brassoline genus *Selenophanes* (Lepidoptera: Rhopalocera). *Zool. J. Linn. Soc.* (London), 76(4):273-291.
1991 A revision of the brassoline genus *Opsiphanes* (Lepidoptera: Rhopalocera). *Zool. J. Linn. Soc.* (London), 101(3):203-293.

Brower, A.V.Z.
1994 Rapid morphological radiation and convergence among races of the butterfly *Heliconius erato* inferred from patterns of mitochondrial DNA evolution. *Proc. Natl. Acad. Sci. USA* (Washington), 91:6491-6495.
1996. Parallel race formation and the evolution of mimicry in *Heliconius* butterflies: a phylogenetic hypothesis from mitochondrial DNA sequences. *Evolution* (Lawrence), 50:195-221.
2000 Phylogenetic relationships among the Nymphalidae (Lepidoptera) inferred from partial sequences of the *wingless* gene. *Proc. Roy. Soc. Biol. Sci. B* (London), 267(1449):1201-1211.

Brown, F. M.
1941 A gazetteer of entomological stations in Ecuador. *Ann. Entomol. Soc. Am.* (College), 34(4):809-851.

Brown, F. M., and B. Heineman
1972 *Jamaica and its butterflies*. London: E. W. Classey Ltd. xv+478 pp.

Brown, J. H.
1984 On the relationship between abundance and distribution of species. *Am. Nat.* (Chicago), 124(2):255-279.

Brown, J. H., D. W. Mehlman, and G. C. Stevens
1995 Spatial variation in abundance. *Ecology* (Tempe), 76(7):2028-2043.

Brown, J. W., H. G. Real, and D. K. Faulkner
1992 *Butterflies of Baja California. Faunal survey, natural history, conservation biology.* Beverly Hills: Lepidoptera Research Foundation, Inc. v+129 pp.

Brown, K. S., Jr.
1979 *Ecologia geográfica e evolução nas florestais neotropicais*. São Paulo: Universidade Estadual de Campinas. xxxi+265 pp.
1980 A review of the genus *Hypothyris* Hübner (Nymphalidae), with descriptions of three new subspecies and the early stages of *H. daphnis*. *J. Lepid. Soc.* (Los Angeles), 34(2):152-172.
1981 The biology of *Heliconius* and related genera. *Ann. Rev. Entomol.* (Palo Alto), 26:427-456.
1982a Historical and ecological factors in the biogrography of aposematic neotropical butterflies. *Am. Zool.* (Utica), 22(2):453-471.
1982b Paleoecology and regional patterns of evolution in Neotropical forest butterflies. In: Prance, G. T. (Ed.), Biological diversification in the Tropics. New York: Columbia University Press. Pp. 255-308.
1984 Species diversity and abundance in Jaru, Rondônia (Brazil). *News Lepid. Soc.* (Lawrence), 3(May/June):45-47.
1987a Chemistry at the Solanaceae/Ithomiinae interface. *Ann. Missouri Bot. Gard.* (St. Louis), 74(2):359-397.
1987b *Biogeography and evolution of neotropical butterflies*. *In*: Whitmore, T. C., & G. T. Prance (Eds.), *Biogeography and Quaternary History in Tropical America*. Oxford: Clarendon Press. Pp. 66-104.
1991. *Conservation of Neotropical environments: Insects as indicators*. *In*: Collins, N. M., and J. A. Thomas (Eds.), *The Conservation of Insects and their Habitats*. London: Academic Press. Pp. 349-404.
1992 *Borboletas da Serra do Japi: Diversidade, hábitats, recursos alimentarios e variação temporal*. *In*: Morellata, L. P. C (Ed.), *História natural da Serra do Japi. Ecologia e preservação de uma área forestal no Sudeste do Brasil*. Campinas: Editoria da Unicamp/Fapesp. Pp. 142-187.
1996a. *The use of insects in the study, inventory, conservation and monitoring of biological diversity in Neotropical habitats, in relation to traditional land use systems*. *In*: Ae, S. A., T. Hirowatari, M. Ishii, and L. P. Brower (Eds.), *Decline and*

Conservation of Butterflies in Japan III. Proceedings of the International Symposium on Butterfly Conservation. Pp. 128-149.

1996b *Conservation of threatened species of Brazilian butterflies*. *In*: Ae, S. A., T. Hirowatari, M. Ishii, and L. P. Brower (Eds.), *Decline and Conservation of Butterflies in Japan III*. Proceedings of the International Symposium on Butterfly Conservation. Pp. 45-62.

Brown, K. S., Jr., and O. H. H. Mielke

1967 Lepidoptera of the central Brazil plateau. I. Preliminary list of Rhopalocera: Introduction, Nymphalidae, Libytheidae. *J. Lepid. Soc.* (Los Angeles), 21(2):77-106.

Bruner, S. C., L. C. Scaramuzza, and A. R. Otero

1975 *Catálogo de los insectos que atacan a las plantas económicas de Cuba.* La Habana: Academia de Ciencias de Cuba, Instituto de Zoología. 403 pp.

Burnham, R. J., and A. Graham

1999 The history of neotropical vegetation: new developments and status. *Ann. Missouri Bot. Gard.* (St. Louis), 86(2):546-589.

Bush, M. B.

1994 Amazonian speciation: a necessarily complex model. *J. Biogeog*. (Oxford), 21:5-17.

Butler, A. G.

1865a Descriptions of the characters of six new species of rhopalocerous Lepidoptera in the collection of the British Museum, with notes on the allied species. *Proc. Zool. Soc. London* (London), 1865:481-486.

1865b Description of four new species of butterflies in the collection of the British Museum. *Ann. Mag. Nat. Hist.* (London), (3)16(96):397-399.

1866 Descriptions of six butterflies new to science, belonging to the genera *Heterochroa* and *Romaleosoma*. *Proc. Zool. Soc. London* (London), 1865(3):667-673.

1869 Descriptions of new Rhopalocera from the collection of Herbert Druce, Esq. *Cist. Entomol.* (London), 1(1):1-16.

[1870] Catalogue of diurnal Lepidoptera described by Fabricius in the collection of the British Museum. London: Taylor and Francis. v+303 pp.

1872a Descriptions of new butterflies from Costa Rica. *Cist. Entomol.* (London), 1(4):72-90.

1872b. *Lepidoptera Exotica, or descriptions and illustrations of exotic Lepidoptera.* London: E. W. Janson. Pp. 85-104, pls. 33-38.

1873 Descriptions of new species of Lepidoptera. *Cist. Entomol.* (London), 1(7):151-177.

1877a On the Lepidoptera of the Amazons collected by James W. H. Trail, Esq., during the years 1873-1875. *Trans. Entomol. Soc. London* (London), 1877(2):105-156

1877b. List of Lepidoptera recently collected by Mr. Walter Davis in Peru, with the description of a new genus and several new species. *Ann. Mag. Nat. Hist.* (London), (4)20(116):117-129.

Caldecott, J. O., M. D. Jenkins, T. H. Johnson, and B. Groombridge

1996 Priorities for conserving global species richness and endemism. *Biodiv. Cons.* (London), 5(6):699-727.

Callaghan, C. J.

1985 Notes on the zoogeographic distribution of butterflies of the subfamily Riodininae in Colombia. *J. Res. Lepid.* (Beverly Hills), Suppl. 1:51-69.

Carpenter, G. D. H., and B. M. Hobby

1945 On *Limenitis bredowii* Geyer (Lep., Nymphalidae) with description of a new subspecies and revival of another. A study in geographical distribution and speciation. *Trans. R. Entomol. Soc. London* (London), 94(2):311-346.

Carter, D. J., A. P. Vogler, and R. I. Vane-Wright

1997 Notes on basic collecting techniques for morphological and molecular studies of Lepidoptera. *Metamorphosis* (Magalies), 8(3):99-106.

Cary, S. J.

1994 Gray Ranch: fire and butterflies in south western New Mexico. *Hol. Lepid.* (Gainesville), 1:65-68.

Chai, P., and B. Srygley

1990 Predation and the flight, morphology and temperature of neotropical rain-forest butterflies. *Am. Nat.* (Chicago), 135(6):748-765.

Chapman, F. M.

1917 The distribution of bird life in Colombia. *Bull. Am. Mus. Nat. Hist*. (New York), 31:1-169.

1926 The distribution of bird life in Ecuador. *Bull. Am. Mus. Nat. Hist*. (New York), 55:1-784.

Chermock, R. L.

1950 A generic revision of the Limenitini of the world. *Am. Mid. Nat.* (Notre Dame), 43(3):513-569.

Chesser, R. T., and R. M. Zink

1994 Modes of speciation in birds: a test of Lynch's method. *Evolution* (Lawrence), 48(2):490-497.

Christensen, J. R.

1981 *A Field Guide to the Butterflies of the Pacific Northwest*. Moscow (U.S.A.): University Press of Idaho. 116 pp.

Claridge, M. F., H. A. Dawah, and M. R. Wilson (Eds.)

1997 *Species: The Units of Biodiversity*. London: Chapman & Hall. xvi+439 pp.

Clerck, C. A.

1764 *Icones insectorum rariorum cum nominibus eorum trivialibus, locisque a C. Linnaei Arch: R: et Equ: Aur: Syst: Nat: allegatis.* Holmiae. 2: [8]+[3] pp., pls. 17-55+[7].

Collins, M. M.

1991 A review of speciation concepts and studies with special reference to the Lepidoptera. *J. Res. Lepid.* (Beverly Hills), 30(1-2):45-81.

Collins, N. M., and M. G. Morris

1985 *Threatened Swallowtail Butterflies of the World. The IUCN Red Data Book*. Gland: IUCN. vii+401 pp.

Colwell, R. K., and G. C. Hurtt

1994 Nonbiological gradients in species richness and a spurious Rapoport effect. *Am. Nat.* (Chicago), 144(4):570-595.

Colwell, R. K., and D. C. Lees

2000 The mid-domain effect: geometric constraints on the geography of species richness. *Trends Ecol. Evol.* (Amsterdam), 15(2):70-76.

Comstock, J. A.

1927 *Butterflies of California. A popular guide to a knowledge of the butterflies of California embracing all of the 477 species and varieties at present recorded for the state*. Los Angeles: author. 334 pp.

Comstock, J. H., and J. G. Needham

1918. The wings of insects. *Am. Nat.* (Salem), 32:253-257.

Comstock, J. A., and C. M. Dammers

1932 The metamorphosis of *Heterochroa bredowii californica* Butl. (Lepid.). *Bull. S. Calif. Acad. Sci.* (Los Angeles), 30(3):83-87.

Comstock, J. A., and L. Vázquez

1961 Estudios de los ciclos biológicos en lépidopteros mexicanos. *Anal. Inst. Biol. Méx*. (México), 31(1/2):349-448.

Comstock, W. P.

1961 *Butterflies of the American tropics. The genus* Anaea. *Lepidoptera Nymphalidae. A study of the species heretofore included in the genera* Anaea, Coenophlebia, Hypna, Polygrapha, Protogonius, Siderone *and* Zaretis. New York: American Museum of Natural History. xiii+214 pp.

Constantino, L. M.

1998 Butterfly life history studies, diversity, ranching and conservation in the Chocó rain forests of western Colombia

(Insecta: Lepidoptera). *SHILAP Rev. Lepid.* (Madrid), 26(101):19-39.

Cornell, H. V., and J. H. Lawton
1992 Species interactions, local and regional processes, and limits to richness of ecological communities: a theoretical perspective. *J. Anim. Ecol.* (Oxford), 61:1-12.

Cracraft, J., and R. O. Prum
1988 Patterns and processes of diversification: speciation and historical congruence in some Neotropical birds. *Evolution* (Lawrence), 42(3):603-620.

Cramer, P.
1777 *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'Amerique.* Amsteldam: S. J. Baalde; Utrecht: Barthelemy Wild and J. van Schoonhoven & Comp. 2(9/16):1-151, pls. 97-192.
1779 *Ibid.*, 3(17/22):1-128, pls. 193-264.
1781 *Ibid.*, 4(29/32):91-192, pls. 337-384.

D'Abrera, B. L.
1987 *Butterflies of the Neotropical Region. Part IV. Nymphalidae (partim).* Victoria: Black Rock, Hill House. Pp. [xiv]+527-678.

Daily, G. C., and P. R. Ehrlich
1995 Preservation of biodiversity in small rainforest patches: rapid evaluations using butterfly trapping. *Biodiv. Cons.* (London), 4(1):35-55.

D'Almeida, R. F.
1931 Quelques notes pour servir a l'histoire naturelle des lépidoptères américains. *Lambillionea* (Tervuren), 31(5):83-88.
1933 Recherches biologiques sur les papillons du Brésil. *Ann. Soc. Entomol. France* (Paris), 102(2):173-179.

Davies, N., A. Aiello, J. L. B. Mallet, A. Pomiankowski, and R. L. Silberglied
1997 Speciation in two neotropial butterflies: extending Haldane's rule. *Proc. R. Soc. London* (London), (B) 264(13-83):845-851.

Davis, F. L.
1928 *Notes on the Butterflies of British Honduras*. London: Old Royalty Book Publishers (Henry Walker). 101 pp.

DeVries, P. J.
1986 Hostplant records and natural history notes on Costa Rican butterflies (Papilionidae, Pieridae and Nymphalidae). *J. Res. Lepid.* (Beverly Hills), 24(4):290-333.
1987 *The Butterflies of Costa Rica and their Natural History. Papilionidae, Pieridae, Nymphalidae*. Princeton: Princeton University Press. xxii+327 pp.
1988 Stratification of fruit-feeding nymphalid butterflies in a Costa Rican rainforest. *J. Res. Lepid.* (Beverly Hills), 26(1-4):98-108.
1997 The Butterflies of Costa Rica and their Natural History. Volume II: Riodinidae. Princeton: Princeton University Press. xxv+288 pp.

DeVries, P. J., and I. A. Chacón
1982 A new species of *Adelpha* (Nymphalidae) from Parque Nacional Braulio Carrillo, Costa Rica. *J. Res. Lepid.* (Beverly Hills), 20(2):123-126.

DeVries, P. J., R. Lande, and D. Murray
1999 Associations of co-mimetic ithomiine butterflies on small spatial and temporal scales in a neotropical rainforest. *Biol. J. Linn. Soc.* (London), 67(1):73-85.

DeVries, P. J., D. Murray, and R. Lande
1997 Species diversity in vertical, horizontal, and temporal dimensions of a fruit-feeding butterfly community in an Ecuadorian rainforest. *Biol. J. Linn. Soc.* (London), 62:313-341.

DeVries, P. J., T. R. Walla, and H. F. Greeney
1999 Species diversity in spatial and temporal dimensions of fruit-feeding butterflies from two Ecuadorian rainforests. *Biol. J. Linn. Soc.* (London), 68:333-353.

Dewitz, H.
1877 Neue Schmetterlinge des Berliner Museums. *Mitt. Münch. Entomol. Vereins* (Munich), 1:85-91.
1879 Naturgeschichte cubanischer Schmetterlinge. Nach Beobachtungen des Herrn Dr. Gundlach bearbeitet. *Zeit. Gesamm. Natur.*, 52(2):155-174.

Dillon, L. S.
1948 The tribe Catagrammini (Lepidoptera: Nymphalidae). Part 1. The genus *Catagramma* and allies. *Reading Publ. Mus. Sci. Publ.* (Reading), 8: vii+113 pp.

Dinerstein, E., D. M. Olson, D. J. Graham, A. L. Webster, S. A. Primm, M. P. Bookbinder, and G. Ledec
1995 *A Conservation Assessment of the Terrestrial Ecoregions of Latin America and the Caribbean.* Washington: The World Bank. xvii+129 pp.

Diniz, I. R., and H. C. Morais
1997 Lepidopteran caterpillar fauna of cerrado hostplants. *Biodiv. Conserv.* (London), 6:817-836.

Donnelly, T. W.
1988 *Geologic constraints on Caribbean biogeography*. *In*: Liebherr, J. K. (Ed.), *Zoogeography of Caribbean Insects.* Ithaca: Cornell University Press. Pp. 15-37.

Dornfeld, J.E.
1980 *The Butterflies of Oregon*. Forest Grove: Timber Press. xiv+276 pp.

Doubleday, E.
[1848] The genera of diurnal Lepidoptera: comprising their generic characters, a notice of their habits and transformations, and a catalogue of the species of each genus. London: Longman, Brown, Green & Longmans. 2: pl. 36.

Downes, J. A.
1973 Lepidoptera feeding at puddle margins, dung and carrion. *J. Lepid. Soc.* (Los Angeles), 27:89-99.

Doyère, L.
[1840] Le dixième ordre des Insectes, celui des Lépidoptères (Lepidoptera.-Glossata Fabricius). In: Les Insectes, vol. 1. In: Cuvier, G., 1836-1849, Le Règne Animal, distribué d'après son organisation, pour servir de base à l'histoire naturelle des animaux, et d'introduction à l'anatomie comparée. Paris: Crochard et Cie. (10): pls. 138-139, 139 bis.

Druce, H.
1874 Descriptions of new species of diurnal Lepidoptera chiefly from tropical America. *Cist. Entomol.* (London), 1(10):285-290.

Drury, D.
1770 *Illustrations of Natural History. Wherein are exhibited upwards of two hundred and forty figures of exotic insects, according to their different genera; very few of which have hitherto been figured by any author, being engraved and coloured from nature, with the greatest accuracy, and under the author's own inspection, on fifty copper plates. With a particular description of each insect: interspersed with remarks and reflections on the nature and properties of many of them.* London: B. White. 1: xxviii+130 pp., 50 pls.
1773 *Ibid.* 2: vii+90+[4] pp., 50 pls.
1782 *Ibid.* 3: xxvi+76+[2] pp., 50 pls.

Dunlap-Pianka, H. L., C. L. Boggs, and L. E. Gilbert
1977 Ovarian dynamics in heliconiine butterflies: programmed senescence versus eternal youth. *Science* (Washington), 197:487-490.

Dyar, H. G.
1891 Descriptions of some butterfly larvae from Yosemite.-IV. *Canad. Entomol.* (Ottawa), 23(11):278-281.

Dyer, L. A.
1997 Effectiveness of caterpillar defense against three species of invertebrate predators. *J. Res. Lepid.* (Beverly Hills), 34(1/4):48-68.

Ebert, H.
1969 On the frequency of butterflies in Eastern Brazil, with a list of the butterfly fauna of Poços de Caldas, Minas Gerais. *J. Lepid. Soc.* (Los Angeles), 23(Supplement 3):1-48.

Ecoforça
2000. *Espécies de Borboletas, Papilionoidea (Lepidoptera) da Mata de Santa Genebra*. Campinas: Ecoforça. http://agest.ecof.org.br/projetos/mata/borbolet/html. [World Wide Web]

Edwards, H.
1873 Pacific coast Lepidoptera.- No. 2. On the transformations of the diurnal Lepidoptera of California and the adjacent districts. *Proc. Calif. Acad. Sci.* (San Francisco), 5(11):161-172.

Edwards, W. H.
1870 *The Butterflies of North America*. Philadelphia: American Entomological Society.

Ehrlich, P. R., and A. H. Ehrlich
1961 *How to Know the Butterflies; Illustrated Keys for Determining to Species all Butterflies Found in North America, North of Mexico, with Notes on their Distribution, Habits, and Larval Food, and Suggestions for Collecting and Studying them*. Dubuque: W. C. Brown Co. 262 pp.

Eliot, J. N.
1978 Revised (3rd) edition of Corbet, A. S., and H. M. Pendlebury, *The Butterflies of the Malay Peninsula*. Kuala Lumpur: Malay Nature Society.

Ellwood, C.V., and J.M.V. Harvey
1990 The Lady Blake Collection: Catalogue of Lady Edith Blake's collection of drawings of Jamaican Lepidoptera and plants. *Bull. Brit. Mus. (Nat. Hist.) (Hist. Ser.)* (London), 18(2):145-202.

Emmel, T. C.
1995 *Saving endangered swallowtails – the conservation biology of* Papilio aristodemus ponceanus *in Florida and* P. homerus *in Jamaica*. *In*: Scriber, J. M., Y. Tsubaki, and R. C. Lederhouse (Eds.), *Swallowtail Butterflies: their Ecology and Evolutionary Biology*. Gainesville: Scientific Publishers. Pp. 359-369.

Emmel, T. C., and G. T. Austin
1990 The tropical rain forest butterfly fauna of Rondônia, Brazil: species diversity and conservation. *Trop. Lepid.* (Gainesville), 1:1-12.

Emmel, J. F., T. C. Emmel, and S. O. Mattoon
1998 *A checklist of the butterflies and skippers of California*. *In*: Emmel, T. C. (Ed.), *Systematics of Western North American Butterflies*. Gainesville: Mariposa Press. Pp. 825-836.

Emmel, T. C., and J. F. Emmel
1973 The Butterflies of Southern California. *Nat. Hist. Mus. Los Angeles Co., Sci. Ser.* (Los Angeles), 26:1-148.

Emmel, T. C., and E. Garraway
1990 Ecology and conservation biology of the Homerus Swallowtail in Jamaica (Lepidoptera: Papilionidae). *Trop. Lepid.* (Gainesville), 1(2):63-76.

Endler, J. A.
1977 *Geographic variation, speciation and clines*. Princeton: Princeton University Press. ix+246 pp.
1982 *Pleistocene forest refuges: fact or fancy? In*: Prance, G. T. (Ed.), *Biological Diversification in the Tropics*. New York: Columbia University Press. Pp. 641-657.

Faith, D. P.
1992 Conservation evaluation and phylogenetic diversity. *Biol. Cons.* (London), 61:1-10.

Felder, C., and R. Felder
1861 Lepidoptera nova Columbiae. *Wien. Entomol. Monat.* (Wien):5(4):97-111.
1862 Specimen faunae lepidopterologicae riparum fluminis Negro superioris in Brasilia septentrionali. *Wien. Entomol. Monat.* (Wien):6(4):109-126.
1867 *Reise der österreichischen Fregatte Novara um die Erde in den Jahren 1857, 1858, 1859 unter den Befehlen des Commodore B. von Wüllerstorf-Urbair. Zoologischer Theil. Zweiter Band. Zweite Abtheilung: Lepidoptera*. Wien: Carl Gerold's Sohn. (3): [2]+379-536, pls. 48-74.

Felder, R.
1869 Diagnosen neuer von dem k. k. Oberlieutenant H. v. Hedemann in Mexico in den Jahren 1865-1867 gesammelter Lepidopteren. *Ver. kaiser-könig. Zool.-Bot. Gesell. Wien* (Wien), 19:465-580.

Ferris, C. D., and F. M. Brown
1981 *Butterflies of the Rocky Mountain States*. Norman (U.S.A.): University of Oklahoma Press. xviii+442 pp.

Field, W. D.
1940a A distributional note on *Heterochroa bredowii* (Geyer) (Lepidoptera: Nymphalidae). *J. Kansas Entomol. Soc.* (Manhattan), 13(4):123.
1940b Distribution notes and comments upon a collection of Mexican Lepidoptera. Part I – Rhopalocera. *Kansas Univ. Sci. Bull.* (Lawrence), 26(5):339-354.

Fjeldså, J.
1995 *Geographical patterns of neoendemic and relict species of Andean forest birds: the significance of ecological stability areas. In*: Churchill, S. P. *et al*. (Eds.), *Biodiversity and Conservation of Neotropical Montane Forests*. New York: New York Botanical Garden. Pp. 79-87.

Fjeldså, J., D. Ehrlich, E. Lambin, and E. Prins
1997 Are biodiversity hotspots" correlated with ecoclimatic stability? A pilot study using NOAA-AVHRR remote sensing data. *Biodiv. Cons.* (London), 13:401-422.

Fjeldså, J., and J. C. Lovett
1997a Biodiversity and environmental stability. *Biodiv. Cons.* (London), 6:315-323.
1997b Geographical patterns of old and young species in African forest biota: the significance of specific montane areas as evolutionary centres. *Biodiv. Cons.* (London), 6:323-346.

Fjeldså, J., and C. Rahbek
1998 *Priorities for conservation in Bolivia, illustrated by a continent-wide analysis of bird distributions*. *In*: Barthlott, W., and M. Winiger (Eds.), *Biodiversity. A Challenge for Development Research and Policy*. Berlin: Springer-Verlag. Pp. 313-327.

Fjeldså, J., E. Lambin, and B. Mertens
1999 Correlation between endemism and local ecoclimatic stability documented by comparing Andean bird distributions and remotely sensed land surface data. *Ecography*, 22:63-78.

Fox, R. M.
1940 A generic review of the Ithomiinae (Lepidoptera, Nymphalidae). *Trans. Am. Entomol. Soc.* (Philadelphia), 66:161-207.
1956 A monograph of the Ithomiidae (Lepidoptera). Part I. *Bull. Am. Mus. Nat. Hist.* (New York), 111(1):1-76.
1960 A monograph of the Ithomiidae (Lepidoptera). Part II. The tribe Melinaeini Clark. *Trans. Am. Entomol. Soc.* (Philadelphia), 86(2):109-171.
1967 A monograph of the Ithomiidae (Lepidoptera). Part III. The tribe Mechanitini Fox. *Mem. Am. Entomol. Inst.* (Ann Arbor), 22: [4]+[1]+190 pp.

Fox, R. M., and H. G. Real
1971 A monograph of the Ithomiidae (Lepidoptera). Part IV. The tribe Napeogenini Fox. *Mem. Am. Entomol. Inst.* (Ann Arbor), 15: [5]+368 pp.

Freitas, A. V. L., K. S. Brown Jr., and A. Aiello
In press Biology of Adelpha mythra feeding on Asteraceae, a novel plant family for the neotropical Limenitidinae (Nymphalidae), and new data on Adelpha "species-group VII". *J. Lepid. Soc.* (Los Angeles), in press.

Fruhstorfer, H.
1907 Südamerikanische Rhopaloceren. *Entomol. Zeit.* (Frankfurt), 21(28):171-172.
1908 Neue *Adelpha*. *Entomol. Zeit.* (Frankfurt), 22(2):8-9.
1909a Neue *Adelpha*. *Entomol. Zeit.* (Frankfurt), 23(8):40-41.
1909b *Verzeichniss der auf der Expedition gesammelten Rhopaloceren. In*: Koch-Grünberg, T., *Zwei Jahre unter den Indianern*. Berlin: E. Wasmuth. 2, pp. 350-359.
1913 *49. Gattung:* Adelpha *Hbn. In*: Seitz, A. (Ed.), *Die Gross-Schmetterlinge der Erde*. Stuttgart: Alfred Kernen. 5: pls. 106-108.
1915 *49. Gattung:* Adelpha *Hbn. In*: Seitz, A. (Ed.), *Die Gross-Schmetterlinge der Erde*. Stuttgart: Alfred Kernen. 5:510-533.
1916 *49. Gattung:* Adelpha *Hbn. In*: Seitz, A. (Ed.), *Die Gross-Schmetterlinge der Erde*. Stuttgart: Alfred Kernen. 5: pl. 109.
1920 *49. Gattung:* Adelpha *Hbn. In*: Seitz, A. (Ed.), *Die Gross-Schmetterlinge der Erde*. Stuttgart: Alfred Kernen. 5: pl. 110A.

Gaston, K. J.
1994 *Rarity*. London: Chapman & Hall. x+205 pp.
1996 *Species richness: measure and measurement*. *In*: Gaston, K. J. (Ed.), *Biodiversity: A Biology of Numbers and Difference.* Oxford: Backwell Science. Pp. 77-113

Gaston, K. J., T. M. Blackburn, and R. D. Gregory
1997 Interspecific abundance-range size relationships: range position and phylogeny. *Ecography* (Copenhagen), 20:390-399.

Gaston, K. J., T. M. Blackburn, and R. D. Gregory
1998 Rapoport's rule: time for an epitaph? *Trends Ecol. Evol.* (Amsterdam), 13(2):70-74.

Gaston, K. J., and P. H. Williams
1996 *Spatial patterns in taxonomic diversity*. *In*: Gaston, K J. (Ed.), *Biodiversity: A Biology of Numbers and Difference.* Oxford: Backwell Science. Pp. 202-228.

Gentry, A. H.
1982 Neotropical floristic diversity: phylogeographical connections between Central and South America, Pleistocene climatic fluctuations, or an accident of the Andean orogeny? *Ann. Missouri Bot. Gard.* (St. Louis), 69:557-593.
1988 Tree species richness of upper Amazonian forests. *Proc. Natl. Acad. Sci. USA* (Washington), 85:156-159.
1992 *Distributional Patterns of Central American and West Indian Bignoniaceae*. *In*: Darwin, S. P., and A. L. Welden (Eds.), *Biogeography of Mesoamerica*. New Orleans: Tulane University. Pp. 111-125.
1993 *A Field Guide to the Families and Genera of Woody Plants of Northwest South America (Colombia, Ecuador, Peru). With Supplementary Notes on Herbaceous Taxa*. Washington: Conservation International. xxiii+895 pp.
1995 *Patterns of diversity and floristic composition in Neotropical montane forests*. *In*: Churchill, S. P. *et al*. (Eds.), *Biodiversity and Conservation of Neotropical Montane Forests*. New York: New York Botanical Garden. Pp. 103-126.

Geyer, C.
[1832]-[1833] *In*: Hübner, J., *Zuträge zur Sammlung exotischer Schmett-ling* [sic]. Augsburg: Jacob Hübner. 5: pls. [138-143].
1837 *In*: Hübner, J., *Zuträge zur Sammlung exotischer Schmett-ling* [sic]. Augsburg: Jacob Hübner. 5:1-52.

Gibson, D. O.
1974 Batesian mimicry without distastefulness. *Nature* (London), 250:77-79.
1980 The role of escape in mimicry and polymorphism. I. The response of captive birds to artificial prey. *Biol. J. Linn. Soc.* (London), 14:201-214.

Godart, J. B.
[1824] *In*: Latreille, P. A., and J. B. Godart, *Encyclopédie Méthodique. Histoire naturelle. Entomologie, ou histoire naturelle des crustacés, des arachnides et des insectes.* Paris: veuve Agasse. Pp. 329-706.

Godman, F. D.
1901 *Biologia Central-Americana*. *Insecta. Lepidoptera-Rhopalocera*. London: Dulau & Co., Bernard Quaritch. 1:669-700, pls. 106-109.

Godman, F. D., and O. S. Salvin
1878a Descriptions of ninteen new species of diurnal Lepidoptera from Central America. *Proc. Zool. Soc. London* (London), 1878(1):264-271.
1878b Descriptions of new species of Rhopalocera from Central and South America. *Ann. Mag. Nat. Hist.* (London), (5)2(9):257-266.
1879 Descriptions of new species of Rhopalocera from Central and South America. *Proc. Zool. Soc. London* (London), 1879(1):150-155.
1884 *Biologia Central-Americana*. *Insecta. Lepidoptera-Rhopalocera*. London: Dulau & Co., Bernard Quaritch. 1:294-311, pls. 28-30.

Grose-Smith, H.
1898 Descriptions of new species of butterflies from South America. *Ann. Mag. Nat. Hist.* (London), (7)2(7):70-73.

Gundlach, J. C.
1881 An annotated catalogue of the diurnal Lepidoptera of the island of Cuba. *Papilio* (New York), 1(7):111-115.

Haffer, J.
1967 Speciation in Colombian forest birds west of the Andes. *Am. Mus. Novit.* (New York), 2294:1-57.
1969 Speciation in Amazonian forest birds. *Science* (Washington), 165(3889):131-137.
1996 Alternative models of vertebrate speciation in Amazonia: an overview. *Biodiv. Cons.* (London), 6:451-476.

Hall, A.
1929 New forms of Nymphalidae (Rhopalocera) in the collection of the British Museum. *Entomologist* (London), 62(793):130-134.
1933 On the distribution and synonymy of the *Adelpha* of Pará. *Novit. Zool.* (Tring), 39(1):10-11.
1935 New forms of Nymphalinae and Ithomiinae. *Entomologist* (London), 68(869):221-227.
1938 On the types of *Adelpha* (Lep., Nymphalidae) in the collection of the British Museum. *Entomologist* (London), 71(903):184-187, (904):208-211, (905):232-235, (906):257-259, (907):284-285.
1939 Catalogue of the Lepidoptera Rhopalocera (butterflies) of British Guiana. *Agric. J. Brit. Guiana*, 10(2):96-104.

Hall, J.P.W.
1999 *A Revision of the Genus* Theope. *Its Systematics and Biology*. (*Lepidoptera: Riodinidae: Nymphidiini)*. Gainesville: Scientific Publishers. vii+127 pp.

Hall, J. P. W., and K. R. Willmott
1993 Temporal and elevational additions of distribution for Costa Rican butterflies. *Trop. Lepid.* (Gainesville), 4(2):139-141.
1995 Five new species and a new genus of riodinid from the cloud forests of eastern Ecuador (Lepidoptera: Riodinidae). *Trop. Lepid.* (Gainesville), 6(2):131-135.
2000 Patterns of feeding behaviour in adult male riodinid butterflies and their relationship to morphology and ecology. *Biol. J. Linn. Soc.* (London), 69:1-23.

Harry, J. L.
1994 *Adelpha bredowii eulalia* in Utah: a photo life history (Lepidoptera: Nymphalidae). *Hol. Lepid.* (Gainesville), 1:62-63.

Harvey, D. J.
1987 *The Higher Classification of the Riodinidae (Lepidoptera).* Austin: University of Texas. Unpub. Ph.D Dissertation. vii+216 pp.

1991 *Appendix B. Higher classification of the Nymphalidae*. *In*: Nijhout, H. F., *The development and evolution of butterfly wing patterns*. Washington: Smithsonian Institution Press. Pp. 255-273.

Hayward, K. J.

1931 Lepidópteros argentinos. Familia Nymphalidae. *Rev. Soc. Entomol. Arg.* (Buenos Aires), 4(1/3):1-199.

1935 Notas sobre lepidópteros (Rhop.) argentinos con descripción de nuevas especies y formas. *Rev. Soc. Entomol. Arg.* (Buenos Aires), 7:183-193.

1940 Ninfálidos argentinos. Notas adicionales. *Anal. Soc. Cient. Arg.* (Bueno Aires), 129(4):43-47.

1951 Las especies y formas argentinas del género *Adelpha* (Lep. Nymphalidae). *Acta Zool. Lillo.* (Tucumán), 9:375-393.

1964 *Insecta, Lepidoptera (Rhopalocera). Familiae Nymphalidaearum et Heliconiidaearum. In*: Descole, H. R. (Ed.), *Genera et Species Animalium Argentinorum*. Buenos Aires: Guillermo Craft. 3: [14]+472+[6] pp.

1969 Datos para el estudio de la ontogenía de lepidópteros argentinos. *Misc. Inst. Miguel Lillo. Univ. Nac. Tucumán* (Tucumán), 31:1-142.

1973 Catálogo de los rhopalóceros argentinos. *Opera Lillo.* (Tucumán), 23:1-318.

Hemming, A. F.

1967 The generic names of the butterflies and their type-species (Lepidoptera: Rhopalocera). *Bull. Brit. Mus. Nat. Hist. (Entomol.)* (London), Suppl. 9:1-509.

Herbst, J. F. W.

1793 *In*: Jablonsky, C. G., *Natursytem aller bekannten in- und ausländischen Insekten als eine Fortsetzung der von Buffonschen Naturgeschichte. Nach dem System des Ritters Carl von Linné. Der Schmetterlinge*. Berlin: Joachim Pauli. 6: [vi]+1-162, pls. 118-153.

Hernández, L. R., D. S. Smith, N. Davies, and A. Areces-Mallea

1994 The butterflies and vegetational zones of Guanahacabibes National Park, Cuba. *Bull. Allyn Mus.* (Sarasota), 139:1-19.

Hespenheide, H. A.

1973 A novel mimicry complex: beetles and flies. *J. Entomol. (Ser. A)* (London), 48:49-56.

Hewitson, W. C.

1847 Descriptions of new species of butterflies. *Ann. Mag. Nat. Hist.* (London), 20(133):257-264.

1850 Descriptions of some new species of butterflies. *Ann. Mag. Nat. Hist.* (London), (2)6(36):434-440.

1867a *Illustrations of new species of exotic butterflies, selected chiefly from the collections of W. Wilson Saunders and William C. Hewitson.* London: John Van Voorst. 4(62): [19-20], [47-48], [103-106], pls. [11], [26], [55-56].

1867b Descriptions of some new species of diurnal Lepidoptera. *Trans. Entomol. Soc. London* (London), (3)5(7):561-566.

1869 Descriptions of new species of diurnal Lepidoptera. *Trans. Entomol. Soc. London* (London), 1869(1):71-75.

1871 New species of diurnal Lepidoptera from South and Central America. *Trans. Entomol. Soc. London* (London), 1871(2):165-167.

1874 *Descriptions of new species of butterflies collected by Mr. Buckley in Bolivia.* London: John Van Voorst. 22 pp.

Higgins, L. G.

1981 A revision of *Phyciodes* Hübner and related genera, with a review of the classification of the Melitaeinae (Lepidoptera: Nymphalidae). *Bull. Brit. Mus. (Nat. Hist.) (Entomol.)* (London), 43(3):77-243.

Holland, W. J.

1916 The Lepidoptera of the Isle of Pines, being a list of the species collected on the island by Mr. J. L. Graf and Mr. G. A. Link, Sr., in 1910 and 1912-1913. *Ann. Carn. Mus.* (Pittsburgh), 10(3/4):487-518.

Holloway, J. D.

1986 *Origins of lepidopteran faunas in high mountains of the Indo-Australian tropics*. *In*: Vuilleumier, F., and M. Monasterio (Eds.), *High Altitude Tropical Biogeography*. Oxford: Oxford University Press. Pp. 533-556.

Holloway, J. D., G. S. Robinson, and K. R. Tuck

1990 *Zonation of the Lepidoptera of northern Sulawesi*. *In*: Knight, W. J., and J. D. Holloway (Eds.), *Insects and the Rain Forests of South East Asia (Wallacea)*. London: Royal Entomological Society of London. Pp. 153-166.

Hoffmann, C. C.

1940 Lepidópteros nuevos de México. IV. *Anal. Inst. Biol. Univ. Nac. Méx.* (México), 11(1):275-284.

Hoffmann, F.

1936 Beiträge zur Lepidopterofauna von Sta. Catharina (Süd-brasilien). *Entomol. Rund.* (Stuttgart), 53(15):221-224.

1937a Beiträge zur Naturgeschichte brasilianischer Schmetterlinge. II. *Int. Entomol. Zeit.* (Frankfurt), 50(21):212-213, (23):231-232.

1937b Beiträge zur Naturgeschichte brasilianischer Schmetterlinge. *Entomol. Jahr.* (Leipzig), 46:126-139.

Hooghiemstra, H., and T. van der Hammen

1998 Neogene and Quaternary development of the neotropical rain forest: the forest refugia hypothesis, and a literature overview. *Earth-Sci. Rev.* (Amsterdam), 11:147-183.

Horn, W. H. R., and I. Kahle

1935-37 Über entomologische Sammlungen. (Ein Beitrag zur Geschichte der Entomo-Museologie). *Entomol. Beihefte Berl.-Dahl.* (Berlin), 2:1-160+12 pp., 3:161-296, 4:297-536+i-vi pp.

Howard, P. C., P. Viskanic, T. R. B. Davenport, F. W. Kigenyi, M. Baltzer, C. J. Dickinson, J. S. Lwanga, R. M. Matthews, and A. Balmford

1998 Complementarity and the use of indicator groups for reserve selection in Uganda. *Nature* (London), 394:472-475.

Howe, W. H.

1975 *The Butterflies of North America.* New York: Doubleday & Company, Inc. xiii+633 pp.

Hübner, J.

1808 *Sammlung exotischer Schmetterlinge*. Augsburg: Jacob Hübner. 1: pl. 62.

[1819] *Verzeichniss bekannter Schmettlinge* [sic]. Augsburg: Jacob Hübner. (2-8):17-128.

1823a *Zuträge zur Sammlung exotischer Schmettlinge* [sic], *bestehend in Bekundigung einzelner Fliegmuster neuer oder rarer nichteuropäischer Gattungen*. Augsburg: Jacob Hübner. 2:1-40.

1823b *Sammlung exotischer Schmetterlinge*. Augsburg: Jacob Hübner. 2: pl. 41.

1824 *Zuträge zur Sammlung exotischer Schmettlinge* [sic], *bestehend in Bekundigung einzelner Fliegmuster neuer oder rarer nichteuropäischer Gattungen*. Augsburg: Jacob Hübner. 3: pls. [70-100]

1827-1831 *Zuträge zur Sammlung exotischer Schmettlinge* [sic], *bestehend in Bekundigung einzelner Fliegmuster neuer oder rarer nichteuropäischer Gattungen*. Augsburg: Jacob Hübner. 3:1-48.

INEFAN

1998 *Ecuador. Informe Interino a la Secretaria del Convenio de Diversidad Biológica, sobre la Aplicación del Articulo 6.* Quito: INEFAN.

Isabelle, A.

1835 *Voyage à Buenos-Ayres et a Porto-Alegre, la Banda-Oriental, les Missions d'Uruguay et la Province de Rio-Grande-do-Sul (de 1830 a 1834). Suivi de considérations sur l'état du commerce français a l'extérieur, et principalement au Brésil et au Rio-de-la-Plata*. Havre: J. Morlent. [iv]+624 pp.

ICZN (International Commission on Zoological Nomenclature)

1999 *International Code of Zoological Nomenclature. 4th Edition*. London: International Trust for Zoological Nomenclature. xxix + 306 pp.

IUCN

1996 *1996 IUCN Red List of Threatened Animals*. Gland and Cambridge: IUCN. 448 pp.

Janzen, D.

1973 Sweep samples of tropical foliage insects: effects of seasons, vegetation types, elevation, time of day, and insularity. *Ecology* (Tempe), 54:687-708.

Janzen, D. H., M. Ataroff, M. Farinas, S. Reyes, N. Rincon, A. Soler, P. Soriano, and M. Vera

1976 Changes in the athropod community along an altitudinal gradient in the Venezuelan Andes. *Biotropica* (Washington), 8:193-203.

Janzen, D. H., and W. Hallwachs

2000 *Philosophy, navigation and use of a dynamic database ("ACG Caterpillars SRNP") for an inventory of the macrocaterpillar fauna, and its food plants and parasitoids, of the Area de Conservacion Guanacaste (ACG), northwestern Costa Rica*. Texas: authors. http://janzen.sas.upenn.edu. [World Wide Web]

Jenkins, D. W.

1983 Neotropical Nymphalidae I. Revision of *Hamadryas*. *Bull. Allyn Mus.* (Sarasota), 81:1-146.

1984 Neotropical Nymphalidae II. Revision of *Myscelia*. *Bull. Allyn Mus.* (Sarasota), 87:1-64.

1985a Neotropical Nymphalidae III. Revision of *Catonephele*. *Bull. Allyn Mus.* (Sarasota), 92:1-65.

1985b. Neotropical Nymphalidae IV. Revision of *Ectima*. *Bull. Allyn Mus.* (Sarasota), 95:1-30.

1986 Neotropical Nymphalidae V. Revision of *Epiphile*. *Bull. Allyn Mus.* (Sarasota), 101:1-70.

1987 Neotropical Nymphalidae VI. Revision of *Asterope* (=*Callithea* Auct.). *Bull. Allyn Mus.* (Sarasota), 114:1-66.

1989 Neotropical Nymphalidae VII. Revision of *Nessaea*. *Bull. Allyn Mus.* (Sarasota), 125:1-38.

1990 Neotropical Nymphalidae VIII. Revision of *Eunica*. *Bull. Allyn Mus.* (Sarasota), 131:1-177.

Jiggins, C. D., and N. Davies

1998 Genetic evidence for a sibling species of *Heliconius charithonia* (Lepidoptera: Nymphalidae). *Biol. J. Linn. Soc.* (London), 64(1):57-67.

Jiggins, C. D., W. O. McMillan, W. Neukirchen, and J. Mallet

1996 What can hybrid zones tell us about speciation? The case of *Heliconius erato* and *H. himera* (Lepidoptera: Nymphalidae). *Biol. J. Linn. Soc.* (London), 59:221-242.

Jordan, K.

1896 On mechanical selection and other problems. *Novit. Zool.* (Tring), 3:426-525.

Joron, M., and J. L. B. Mallet

1998 Diversity in mimicry: paradox or paradigm? *Trends Ecol. Evol.* (Amsterdam), 13:461-466.

Jørgensen, P.

1922 Sobre algunos nuevos enemigos de la yerba-mate, *Ilex paraguariensis*. *Rev. Soc. Cient. Parag.* (Asunción), 1(2):27-30.

1924 Observaciones biológicas de lepidópteros sudamericanos. *Rev. Soc. Cient. Parag.* (Asunción), 1(6):84-89.

1934 Neue Schmetterlinge und Raupen aus Südamerika. *Deut. Entomol. Zeit. "Iris"* (Berlin), 48(2) 60-78.

Kaufman, D. M.

1995. Diversity of new world mammals: universality of the latitudinal gradients of species and bauplans. *J. Mammal.* (Baltimore), 76(2):322-334.

Kaye, W. J.

1904 A catalogue of the Lepidoptera Rhopalocera of Trinidad. *Trans. Entomol. Soc. London* (London), 1904(2):159-224.

1914 Additions and corrections to my catalogue of the Lepidoptera-Rhopalocera of Trinidad (1904). *Trans. Entomol. Soc. London* (London), 1913(3):545-585.

1925 New species and subspecies of Trinidad Rhopalocera and Heterocera. *Trans. Entomol. Soc. London* (London), 1924(3/4):413-428.

1940 Additions and corrections to the recorded species of Trinidad butterflies (Lepid. Rhop.). *Trans. R. Entomol. Soc. London* (London), 90(21):551-573.

Kirby, W. F.

1871 *A Synonymic Catalogue of Diurnal Lepidoptera*. London: John Van Voorst. vii+690 pp.

1877 *A Synonymic Catalogue of Diurnal Lepidoptera. Supplement*. London: John Van Voorst. pp. i-viii+691-883.

1879 *Catalogue of the Collection of Diurnal Lepidoptera Formed by the Late William Chapman Hewitson of Oatlands, Walton on Thames; and Bequeathed by him to the British Museum*. London: John Van Voorst. iv+246 pp.

Klots, A. B.

1956 *Lepidoptera*. *In*: Tuxen, S. L. (Ed.), *Taxonomist's glossary of genitalia in insects*. Copenhagen: Munkssgard. Pp. 115-130.

Kochalka, J. A., D. Torres, B. Garcete, and C. Aguilar

1996 *Lista de invertebrados de Paraguay pertenecientes a las colecciones del Museo Nacional de Historia Naturales del Paraguay. In*: Romero, O., M. (Ed.), *Colecciones de Flora y Fauna del Museo Nacional de Historia Natural del Paraguay*. San Lorenzo: Museo Nacional de Historia Natural del Paraguay. Pp. 69-283.

Kunin, W. E., and K. J. Gaston

1993 The biology of rarity: patterns, causes and consequences. *Trends Ecol. Evol.* (Amsterdam), 8(8):298-301.

Kunin, W. E., and K. J. Gaston (Eds.)

1997 *The Biology of Rarity. Causes and Consequences of Rare-Common Differences.* London: Chapman & Hall. xiv+280 pp.

Lamas, G.

1976 A gazetteer of Peruvian entomological stations (based on Lepidoptera). *Rev. Per. Entomol.* (Lima), 19(1):17-25.

1977 A preliminary check-list of the butterflies (Lepidoptera) of Peru west of the Andes. *Rev. Cienc.* (Lima), 70(1):59-77.

1982 *A preliminary zoogeographical division of Peru, based on butterfly distributions (Lepidoptera, Papilionoidea). In*: Prance, G. T. (Ed.), *Biological Diversification in the Tropics.* New York: Columbia University Press. Pp. 336-357.

1983 How many butterfly species in your backyard? *News Lepid. Soc.* (Lawrence), 4(July/August):53-55.

1989 The Neotropical butterflies described by Dewitz in 1877 (Lepidoptera, Rhopalocera). *Entomofauna* (Linz), 10(17):273-279.

1994 *Butterflies of the Explorer's Inn Reserve*. *In*: Foster, R. B., J. L. Carr, and A. B. Forsyth (Eds.), *The Tambopata-Candamo Reserved Zone of Southeastern Peru: A Biological Assessment. RAP Working Papers 6*. Pp. 62-63, 162-177.

1999 Two new *Doxocopa* from western Peru and Ecuador (Lepidoptera: Nymphalidae, Apaturinae). *Rev. Per. Entomol.* (Lima), 41:36-37.

Lamas, G. L., J. Grados, and G. Valencia

1999 Las mariposas de Machu Picchu, Cuzco, Perú: Un inventario preliminar (Lepidoptera: Rhopalocera). *Rev. Per. Entomol.* (Lima), 41:1-8.

Lamas, G. L., R. G. Robbins, and W. D. Field

1995 *Atlas of Neotropical Lepidoptera. Volume 124. Bibliography of Butterflies. An Annotated Bibliography of the Neotropical Butterflies and Skippers (Lepidoptera: Papilionoidea and Hesperioidea).* Gainesville: Scientific Publishers. xiv+463 pp.

Lamas, G. L., and G. B. Small Jr.

1992 *Catalogue of the Nymphalinae of Panama (Lepidoptera: Nymphalidae)*. *In*: Quintero, D., and A. Aiello (Eds.), *Insects of Panama and Mesoamerica. Selected studies.* Oxford: Oxford University Press. Pp. 554-566.

Latreille, P. A.

[1809] *IX. Insectes de l'Amérique équinoxiale, recueillis pendant le voyage de MM. de Humboldt et Bonpland. Suite. In*: Humboldt, A., and A. Bonpland, 1805-1832, *Voyage aux régions équinoxiales du Nouveau Continent. 2. Recueil d'observations de zoologie et d'anatmoie comparée; faites dans l'Océan Atlantique, dans l'intérieur du Nouveau Continent et dans la Mer du Sud, pendant les années 1799, 1800, 1801, 1802et 1803*. Paris: G. Levrault, Schoell et Cie.

Lawton, J. H.

1999 Are there general laws in ecology? *Oikos* (Copenhagen), 84:177-192.

Lawton, J. H., D. E. Bignell, B. Bolton, G. F. Bloemers, P. Eggleton, P. M. Hammond, M. Hodda, R. D. Holt, T. B. Larsen, N. A. Mawdsley, N. E. Stork, D. S. Strvastava, and A. D. Watt

1998 Biodiversity inventories, indicator taxa and effects of habitat modification in tropical forest. *Nature* (London), 391:72-76.

Lawton, J. H., M. MacGarvin, and P. A. Heads

1987 Effects of altitude on the abundance and species richness of insect herbivores on bracken. *J. Anim. Ecol.* (Oxford), 56:147-160.

Lederhouse, R. C.

1982 Territorial defense and lek behavior of the black swallowtail butterfly, *Papilio polyxenes*. *Behav. Ecol. Sociobiol*. (Berlin), 10:109-118.

Lederhouse, R. C., M. P. Ayres, and J. M. Scriber

1990 Adult nutrition affects male virility in *Papilio glaucus*. *Funct. Ecol.* (Oxford), 4:743-751

Lees, D. C., C. Kremen, and L. Andriamampianina

1999 A null model for species richness gradients: bounded range overlap of butterflies and other rainforest endemics in Madagascar. *Biol. J. Linn. Soc.* (London), 67:529-584.

Lewis, H. L.

1973 *Butterflies of the World.* Chicago: Follett. xvi+312 pp.

Lieberman, D., M. Liberman, R. Peralta, and G. S. Hartshorn

1996 Tropical forest stucture and composition on a large-scale altitudinal gradient in Costa Rica. *J. Ecol.* (Oxford), 84:137-152.

Lindroth, C. H.

1971 Disappearance as a protective factor. *Entomol. Scand.* (Stockholm), 2:41-48.

Linnaeus, C.

1758 *Systema naturae per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. Editio demica, reformata.* Holmiae: Laurentius Salvius. 1: iv+823+[1] pp.

*1*764 *Museum S:ae R:ae M:tis Ludovicae Ulricae Reginae Svecorum, Gothorum, Vandalorumque &c. &c. &c. In quo animalia rariora, exotica, imprimis Insecta & Conchilia describuntur & determinantur. Prodromi instar editum.* Holmiae: Laurentius Salvius. [viii]+720+[2] pp.

Lucas, P. H.

1835 *Histoire naturelle des lépidoptères exotiques.* Paris: Pauquet. [4]+iv+156 pp.

Lynch, J. D.

1986 *Origins of the high Andean herpetological fauna*. *In*: Vuilleumier, F., and M. Monasterio (Eds.), *High Altitude Tropical Biogeography*. Oxford: Oxford University Press. Pp. 478-499.

Mace, G. M., and R. Lande

1991 Assessing extinction threats: toward a reevaluation of IUCN threatened species categories. *Cons. Biol.* (Barking), 5(2):148-157.

Magurran, A. E.

1988 *Ecological Diversity and its Measurement*. Princeton: Princeton University Press. x+179 pp.

Mallet, J. L. B.

1993 *Speciation, raciation and color pattern evolution in Heliconius butterflies: evidence from hybrid zones. In*: Harrison, R.G (Ed.), *Hybrid Zones and the Evolutionary Process*. Oxford: Oxford University Press. Pp. 226-260.

1995 A species definition for the modern synthesis. *Trends Ecol. Evol.* (Amsterdam), 10(7):294-299.

1996 What are 'good species'? Reply. *Trends Ecol. Evol.* (Amsterdam), 11(4):174-175.

Mallet, J. L. B., and N. H. Barton

1989 Strong natural selection in a warning color hybrid zone. *Evolution* (Lawrence), 43:421-31

Mallet, J. L. B., and L. E. Gilbert

1995 Why are there so many mimicry rings? Correlations between habitat, behaviour and mimicry in *Heliconius* butterflies. *Biol. J. Linn. Soc.* (London), 55:159-180.

Mallet, J. L. B., and M. Joron

1999 Evolution of diversity in warning color and mimicry: polymorphisms, shifting balance and speciation. *Annu. Rev. Ecol. Syst*. (Palo Alto), 30:201-233.

Mallet, J. L. B., W. O. McMillan, and C. D. Jiggins

1998 *Mimicry and warning color at the boundary between races and species*. *In*: Berlocher, S., and D. Howard (Eds.), *Endless Forms: Species and Speciation*. New York: Oxford University Press. Pp. 390-403.

Mallet, J. L. B., and M.C. Singer

1987 Individual selection, kin selection, and the shifting balance in the evolution of warning colours: the evidence from butterflies. *Biol. J. Linn. Soc.* (London), 32(4):337-350.

Martín, L., G. Talbot, and J. Jullien

[1923] *The Fruhstorfer collection of butterflies. Catalogue of types with general account and list of the more interesting forms.* Nice: J. Gastaud. 8+135+ix pp.

Mayden, R. L.

1997 A hierarchy of species concepts: the denouement in the saga of the species problem. In: Claridge, M. F., H. A. Dawah, and M. R. Wilson (Eds.), Species: The Units of Biodiversity. London: Chapman & Hall. Pp. 381-424.

Mayr, E.

1942 *Systematics and the Origin of Species from the Viewpoint of a Zoologist*. New York: Columbia University Press. xiv+334 pp.

1963 *Animal Species and Evolution*. Cambridge: Harvard University Press. xiv+797 pp.

Maza, J. de la, and R. G. de la Maza

1985 La fauna de mariposas de Boca de Chajul, Chiapas, Mexico (Rhopalocera). Parte I. *Rev. Soc. Mex. Lepid.* (Mexico), 9(2):23-44.

Maza, R. F. de la

1987 *Mariposas mexicanas. Guía para su colecta y determinación*. México: Fondo de Cultura Económica. 304 pp.

Maza, R. G. de la, and J. Bezaury C.

1992 *Estudio preliminar de la diversidad de mariposas diurnas de la Reserva de la Biosfera de Sian Ka'an, Quintana Roo*. *In*: Navarro, D., L., and E. Suaréz M. (Eds.), *Diversidad biológica en la Reserva de la Biosfera de Sian Ka'an Quintana Roo, Mexico Vol. II*. Pp. 217-239.

Maza, R. G. de la, and J. de la Maza

1988 Notas sobre los Rhopalocera de la Sierra de Alvarez, San Luis Potosí, México (Lepidoptera). *Rev. Soc. Mex. Lepid.* (México), 11(2):33-59.

1993 *Mariposas de Chiapas.* México: Gobierno del Estado de Chiapas. 224 pp.

Maza, R. G. de la, J. de la Maza, and A. White

1989 La fauna de mariposas de Mexico. Parte I. Papilionoidea (Lepidoptera: Rhopalocera). *Rev. Soc. Mex. Lepid.* (Mexico), 12(2):39-98.

McCoy, E. D.

1990 The distribution of insects along elevational gradients. *Oikos* (Copenhagen), 58:313-322.

McGeoch, M.

1998 The selection, testing and application of terrestrial insects as bioindicators. *Biol. Rev.*, 73:181-201.

McNeely, J. A., K. R. Miller, W. V. Reid, R. A. Mittermeier, and T. B. Werner

1990 *Conserving the World's Biological Diversity*. Gland: IUCN. 193 pp.

Meerman, J. C.

1999 Lepidoptera of Belize. 1. Catalog of butterflies (Lepidoptera: Papilionoidea). *Trop. Lepid.* (Gainesville), 10(Suppl. 1):7-32.

Ménétriès, E.

1855 *Enumeratio corporum animalium Musei Imperialis Academiae Scientiarum Petropolitanae. Classis insectorum. Ordo lepidopterorum.* Petropoli: Eggers et Soc.; Lipsiae: Leop. Voss. 1: xv+1-66+67-97+[2] pp.

1857 *Ibid*. 2: vi+67-112+[2]+99-144+[2] pp.

Michener, C. D.

1942 A generic revision of the Heliconiinae (Lepidoptera, Nymphalidae). *Am. Mus. Novit.* (New York), 1197:1-8.

Mielke, O. H. H., and M. M. Casagrande

[1992] Lepidoptera: Papilionoidea e Hesperioidea colectados na Ilha de Maracá, com uma lista complementar de Hesperiidae de Roraima. *Acta Amaz.* (Manaus), 21:175-210.

1997 Papilionoidea and Hesperoidea (Lepidoptera) of the Parque Estadual. *Rev. Brasil. Zool*. (São Paulo), 14(4):967-1001.

Miller, L. D., and F. M. Brown

1981 A catalogue/checklist of the butterflies of America north of Mexico. *Mem. Lepid. Soc.* (Los Angeles), 2: vii+280pp.

Miller, L. D., and J. Y. Miller

1970 Notes on two rare Mexican *Adelpha* and related Central American species (Nymphalidae). *J. Lepid. Soc.* (Los Angeles), 24(4):292-297.

1989 *The biogeography of West Indian butterflies (Lepidoptera: Papilionoidea, Hesperioidea): a vicariance model*. *In*: Woods, C. A. (Ed.), *Biogeography of the West Indies. Past, Present and Future.* Gainesville: Sandhill Crane Press. Pp. 229-262.

Mittermeier, R. A.

1988 *Primate diversity and the tropical forest: case studies from Brazil and Madagascar and the importance of megadiversity countries*. *In*: Wilson, E. O., and F. M. Peter (Eds.), *Biodiversity*. Washington: National Academy Press. Pp. 145-154.

Mittermeier, R. A., P. R. Gil, and C. G. Mittermeier

1999. *Megadiversity: Earth's Biologically Wealthiest Nations*. Washington: Conservation International. 501 pp.

Möschler, H. B.

1877 Beiträge zur Schmetterlings-Fauna von Surinam. *Ver. kaiser-könig. Zool.-Bot. Gesell. Wien* (Wien), 26:293-352.

Moss, M.

1927 The species of *Adelpha* occurring at Pará. *Proc. Entomol. Soc. London* (A) (London), 1(3):33-34.

1933 Some generalizations on *Adelpha*, a Neotropical genus of nymphalid butterflies of the group Limenitidi. *Novit. Zool.* (Tring), 39(1):12-20.

Murphy, D. D., & P. R. Ehrlich

1984 On butterfly taxonomy. *J. Res. Lepid.* (Beverly Hills), 23(1):19-34.

Müller, F.

1879 *Ituna* and *Thyridia*: a remarkable case of mimicry in butterflies. *Proc. Entomol. Soc. London* (London), 1879: xx-xxix.

Müller, J. F. T.

1878 Pflanzengattungen, an denen mir bekannte Tagfalter-Raupen leben. *Stett. Entomol. Zeit.* (Wien), 39(7/9):296.

Müller, P. L. S.

1774 *Des Ritters Carl von Linné königlich schwedischen Leibarztes u. u. vollständiges Natursystem nach der zwölften lateinischen Ausgabe und nach Anleitung des holländischen Houttuynischen Werks mit einer ausfürlichen Erklärung ausgefertigt*. Nürnberg: Gabriel Nicolaus Raspe. 5(1): [16]+758 pp.

Müller, W.

1886 Südamerikanische Nymphalidenraupen. Versuch eines natürlichen Systems der Nymphaliden. *Zool. Jahr. (Syst.)* (Jena), 1(3/4):417-678.

Myers, N.

1988 Threatened biotas: "hot spots" in tropical forests. *The Environmentalist* (Lausanne), 8:187-208.

1990 The biodiversity challenge: expanded hot-spots analysis. *The Environmentalist* (Lausanne), 10:243-256.

Neck, R. W.

1996 *A Field Guide to the Butterflies of Texas*. Houston: Gulf Publishing Company. xvii+323 pp.

Neild, A. F. E. N.

1996 *The Butterflies of Venezuela. Part 1: Nymphalidae I (Limenitidinae, Apaturinae, Charaxinae). A comprehensive guide to the identification of adult Nymphalidae, Papilionidae and Pieridae*. London: Meridian Publications. 144 pp.

Neuburger, W.

1907 *Adelpha ehrhardi* spec. nov. *Soc. Entomol.* (Stuttgart), 22(7):50.

New, T. R., R. M. Pyle, J. A. Thomas, C. D. Thomas, and P. C. Hammond

1995 Butterfly conservation management. *Annu. Rev. Entomol.* (Palo Alto), 40:57-83.

Newton, I.

1997 Links between abundance and distribution of birds. *Ecography* (Copenhagen), 20:137-145.

Nijhout, H. F.

1991 *The Development and Evolution of Butterfly Wing Patterns*. Washington: Smithsonian Institution Press. xvi+297 pp.

Olmstead, K. L., and T. K. Wood

1990 Altitudinal patterns in species richness of Neotropical treehoppers (Hompotera: Membracidae): the role of ants. *Proc. Entomol. Soc. Wash.* (Washington), 92(3):552-560.

Olson, D. M.

1994 The distribution of leaf litter invertebrates along a Neotropical altitudinal gradient. *J. Trop. Ecol.* (Cambridge), 10:129-180.

Orellana, B., A. M.

1996 Nueva subespecie de *Adelpha justina* Felder & Felder 1861, (Lepidoptera: Nymphalidae: Limenitidinae) en Venezuela. *Zoocriaderos*, 1(2):21-24.

Orsak, L. J.

1977 The butterflies of Orange County, California. *Res. Series. Mus. Syst. Biol. Univ. Calif.* (Irvine), xii+349 pp.

Otero, L. D., and A. Aiello

1996 Descriptions of the immature stages of *Adelpha alala* (Nymphalidae). *J. Lepid. Soc.* (Los Angeles), 50(4):329-336.

Papageorgis, C,

1975 Mimicry in neotropical butterflies. *Am. Scientist* (New Haven), 63:522-532.

Parsons, M. J.

1998 *The Butterflies of Papua New Guinea. Their Systematics and Biology*. London: Academic Press. xvi+736 pp.

Patterson, B. D., D. F. Stotz, S. Solari, J. W. Fitzpatrick, and V. Pacheco

1998 Contrasting patterns of elevational zonation for birds and mammals in the Andes of southeastern Peru. *J. Biogeog.* (Oxford), 25:593-607.

Patton, J. L., and M. F. Smith

1992 MtDNA phylogeny of Andean mice: a test of diversification across ecological gradients. *Evolution* (Lawrence), 46:174-183.

Pearson, D. L.

1994 Selecting indicator taxa for the quantitative assessment of biodiversity. *Phil. Trans. R. Soc. Lond. B* (London), 345:75-79.

Pearson, D. L., and S. S. Carroll

1998 Global patterns of species richness: spatial models for conservation planning using bioindicator and precipitation data. *Cons. Biol*. (Boston), 12(4):809-821.

Peters, H. T.

1897 Naturalistische Aufzeichnungnen aus der Provinz Rio de Janeiro in Brasilien. *Illust. Wochen. Entomol.* (Neudamm), 2(5):65-69.

Peterson, A. T., O. A. Flores-Villela, L. S. León-Paniagua, J. E. Llorente-Bousquets, M. A. Luis-Martinez, A. G. Navarro-Sigüenza, M. G. Torres-Chávez, and I. Vargas-Fernández

1993 Conservation priorities in Mexico: moving up in the world. *Biodiv. Lett.* (Oxford), 1(2):33-38.

Pinheiro, C. E. G.

1996 Palatability and escaping ability in Neotropical butterflies: tests with wild kingbirds (*Tyrannus melancholicus*, Tyrannidae). *Biol. J. Linn. Soc*. (London), 59:351-365.

Pivnick, K. A., and J. N. McNeil

1987 Puddling in butterflies: sodium affects reproductive success in *Thymelicus lineola*. *Physiol. Entomol.* (Oxford), 12:461-472.

Platt, A. P.

1975 Monomorphic mimicry in Nearctic *Limenitis* butterflies: experimental hybridization of the *Limenitis arthemis-astyanax* complex with *L. archippus*. *Evolution* (Lawrence), 29:120-141.

Platnick, N. I.

1991 Patterns of biodiversity: tropical vs. temperate. *J. Nat. Hist.* (London), 25:1083-1088.

Podtiaguin, B.

1944 Insectos que atacan a las plantas cultivadoas en el Paraguay. *Rev. Soc. Cient. Parag.* (Asunción), 5(2):1-16.

Poey, F.

1847 Catálogo metódico y descriptivo de las mariposas de la isla de Cuba. *Mem. Real Soc. Econ. La Habana* (2)3(1):44-50.

Poulsen, B. O., and N. Krabbe

1997 Avian rarity in ten ten cloud-forest communities in the Andes of Ecuador: implications for conservation. *Biodiv. Cons.* (London), 6(1):1365-1375.

Poulton, E. B.

1908 Mimetic North American species of the genus *Limenitis* (s. l.) and their models. *Trans. Entomol. Soc. London* (London), 1908(3):447-488.

1909 Mimicry in the butterflies of North America. *Ann. Entomol. Soc. Am.* (College), 2(4):203-242.

Prendergast, J. R., R. M. Quinn, J. H. Lawton, B. C. Eversham, and D. W. Gibbons

1993 Rare species, the coincidence of diversity hotspots and conservation strategies. *Nature* (London), 365:335-337.

Prendergast, J. R., and Eversham, B. C.

1997 Species richness covariance in higher taxa: empirical tests of the biodiversity indicator concept. *Ecography* (Copenhagen), 20:210-216.

Pullin, A. S.

1995 *Ecology and Conservation of Butterflies*. London: Chapman & Hall. xiv.+363 pp.

Raguso, R. A., and O. Gloster

1996 Preliminary checklist and field observations of the Butterflies of the Maquipucuna Field Station (Pichincha Province, Ecuador). *J. Res. Lepid.* (Beverly Hills), [1993] 32:135-161.

Raguso, R. A., and J. E. Llorente

1991 The butterflies (Lepidoptera) of the Tuxtlas Mts., Veracruz, Mexico, revisted: Species richness and habitat disturbance. *J. Res. Lepid.* (Beverly Hills), 29(1/2):105-133.

Rahbek, C.

1995 The elevational gradient in species richness: a uniform pattern? *Ecography* (Copenhagen), 18(2):200-205.

1997 The relationship among area, elevation and regional species richness in neotropical birds. *Am. Nat.* (Chicago), 149(5):875-902.

Riley, N. D.

1975 *A field guide to the butterflies of the West Indies.* London: Collins. 224 pp

Ritland, D. B., and L. P. Brower

1991 The viceroy butterfly is not a Batesian mimic. *Nature* (London), 350:497-498.

Robbins, R. K., and P. A. Opler

1997 *Butterfly diversity and a preliminary comparison with bird and mammal diversity*. *In*: Reaka-Kudla, M. L., D. E. Wilson, and E. O. Wilson (Eds.), *Biodiversity III. Understanding and Protecting our Biological Resources.* Washington: Joseph Henry Press. Pp. 69-82.

Robbins, R. K., G. Lamas, D. J. Harvey, and M. M. Casagrande

1996 *Taxonomic composition and ecological structure of the species-rich butterfly community at Pakitza, Parque Nacional del Manu, Peru*. *In*: Wilson, D. E., and A. Sandoval (Eds.), *Manu: The Biodiversity of Southeastern Peru.* Washington: Smithsonian Institution Press. Pp. 217-252.

Röber, J. K. M.

1923 Neue Schmetterlinge. *Entomol. Mitt.* (Berlin), 12(1):57-59.

1927 Neue exotische Falter. *Int. Entomol. Zeit.* (Frankfurt), 20(44): pl., (46):419-421, 21(31):281-282, (45): pl.

Robinson, S. K., and J. Terborgh

1990 *Bird communities of the Cocha Cashu Biological Station in Amazonian Peru*. *In*: Gentry, A. H. (Ed.), *Four Neotropical Rainforests*. New Haven: Yale University Press. Pp. 199-216.

Rohde, K.

1992 Latitudinal gradients in species diversity: the search for the primary cause. *Oikos* (Copenhagen), 65:514-527.

1999 latitudinal gradients in species diversity and Rapoport's rule revisited: a review of recent work and what can parasites teach us about the cause of gradients? *Ecography* (Copenhagen), 22:593-613.

Rosenzweig, M. L., and E. A. Sandlin

1997 Species diversity and latitude: listening to area's signal. *Oikos* (Copenhagen), 80(1):172-176.

Ross, G. N.

1964 An annotated list of butterflies collected in British Honduras in 1961. *J. Lepid. Soc.* (Los Angeles), 18(1):11-26.

1976 An ecological study of the butterflies of the Sierra de Tuxtla in Veracruz, Mexico. *J. Res. Lepid.* (Beverly Hills), 15(20:109-128.

Sakaguti, K.

1983 *Insects of the World. 4. North, South and Central America II.* Osaka: Hoikusha Publishing Co. Ltd. [4]+262 pp.

Salazar E., J. A.

1996 Sobre la concentración de lepidópteros rhopaloceros en la cumbre de un cerro del noroccidente de Caldas, Colombia (Insecta: Lepidoptera). *SHILAP Rev. Lepid.* (Madrid), 24(94):183-195.

2000 Dos nuevas especies de licénidos Colombianos. Una nota sobre *Adelpha egregia* Röber, 1927 y descripción de *Adelpha pseudodonysa* sp. n. (Lepidoptera: Lycaenidae, Nymphalidae). *Bol. Cient. Mus. Hist. Nat. Univ. Caldas* (Manizales), 4:83-91.

Samson, C.

1978 The rediscovery of *Adelpha ethelda* Hewitson (Lepidoptera: Nymphalidae) in north-west Ecuador. *The Aurelian*, 1(1):11-14.

Schaus, W.

1902 Descriptions of new American butterflies. *Proc. U. S. Natl. Mus.* (Washington), 24(1262):383-460.

Schoener, T. W.

1987 The geographical distribution of rarity. *Oecologia* (Berlin), 74:161-173.

Schwanwitsch, B. N.

1924 On the groundplan of wing-pattern in nymphalids and certain other families of rhopalocerous Lepidoptera. *Proc. Zool. Soc. Lond. Ser. B.* (London), 34:509-528.

Schwartz, A.

1989a Rediscovery of *Adelpha lapitha* Hall, 1929 (Nymphalidae) on Hispaniola, West Indies. *Bull. Allyn Mus.* (Sarasota), 124:1-7.

1989b *The Butterflies of Hispaniola*. Gainesville: University of Florida Press. xiv+580 pp.

Scott, J. A.

1970 Hilltopping as a mating mechanism to aid the survival of low density species. *J. Res. Lepid.* (Beverly Hills), 7(4):191-204.

1973 Mating of butterflies. *J. Res. Lepid.* (Beverly Hills), 11(2):99-127.

1976 Mate locating behavior of the western North American butterflies. *J. Res. Lepid.* (Beverly Hills), 14:1-40.

1986 *The Butterflies of North America. A Natural History and Field Guide.* Stanford: Stanford University Press. xv+583 pp.

Scudder, S. H.

1875 Historical sketch of the generic names proposed for butterflies. *Proc. Am. Acad. Arts Sci.* (Boston), 10:91-293.

Seitz, A. (Ed.)

[1907]-1925 *Die Gross-Schmetterlinge der Erde*. Stuttgart: Alfred Kernen. 5:1-1043.

Seitz, A.

1915 *50. Gattung:* Limenitis *F. In*: Seitz, A. (Ed.), *Die Gross-Schmetterlinge der Erde*. Stuttgart: Alfred Kernen. 5:533-536.

Shields, O.

1967 Hilltopping. *J. Res. Lepid.* (Beverly Hills), 6(2):69-178.

Shuey, J. A.

1997 An optimized portable bait trap for quantitative sampling of butterflies. *Trop. Lepid.* (Gainesville), 8(1):1-4.

Silberglied, R. E.

1984 *Visual communication and sexual selection among butterflies. In*: Vane-Wright, R. I., and P. R. Ackery (Eds.), *Biology of Butterflies*. London: Academic Press. Pp. 207-223.

Silva, A. G. d'Araújo e, C. R. Gonçalves, D. M. Galvão, A. J. L. Gonçalves, J. Gomes, M. do N. Silva, and L. de Simoni

1968 *Quarto catálogo dos insetos que vivem nas plantas do Brasil seus parasitos e predatores. Edição ampliado do "3° catálogo dos insetos que vivem nas plantas do Brasil" de autoria do Prof. A. M. da Costa Lima. Parte II. Insetos, hospedeiros e inimigos naturais. Indice de insetos e índice de plantas.* Rio de Janeiro: Ministério da Agricultura. 1: xxvii+622 pp.; 2: [viii]+265 pp.

Smart, P. E.

1975 *The illustrated encyclopedia of the butterfly world in colour*. London: Hamlyn. 275 pp.

Smith, D. S., L. D. Miller, and J. Y. Miller

1994 *The Butterflies of the West Indies and South Florida*. Oxford: Oxford University Press. x+264 pp.

Sourakov, A., and T. C. Emmel

1995 Bait trapping for butterflies in Kenya. *Trop. Lepid.* (Gainesville), 6(1):1-2.

Srygley, B., and P. Chai

1990 Predation and the elevation of thoracic temperature in brightly colored Neotropical butterflies. *Am. Nat.* (Chicago), 135(6):766-787.

Staudinger, O.

1886 *I. Theil. Exotische Tagfalter in systematischer Reihenfolge mit Berücksichtigung neuer Arte. In*: Staudinger, O., and E. Schatz, 1884-1892, *Exotische Schmetterlinge*. Fürth: G. Löwensohn. (13):142-144.

Stehr, F. W.

1987 *Order Lepidoptera. In*: Stehr, F. W. (Ed.), *Immature Insects*. Dubuque: Kendall/Hunt Publishing Company. Pp. 288-340.

Steinhauser, S. R.

1974 Notes on Neotropical Nymphalidae and Hesperidae with descriptions of new species and subspecies and a new genus. *Bull. Allyn Mus.* (Sarasota), 22:1-38.

Steinhauser, S. R., and L. D. Miller

1977 Three new species of *Adelpha* (Nymphalidae) from Mexico and Colombia. *Bull. Allyn Mus.* (Sarasota), 46:1-10.

Stevens, G. C.

1989. The latitudinal gradient in geographical range: how so many species co-exist in the tropics. *Am. Nat.* (Chicago), 133:240-256.

1992 The elevational gradient in altitudinal range: an extension of Rapoport's latitudinal rule to altitude. *Am. Nat.* (Chicago), 140:893-911.

Strand, E.

1918 Nachtrag zum Zweiten Teil meiner "Lepidoptera Niepeltiana". *Soc. Entomol.* (Stuttgart), 33(1):2-3.

Swainson, E. M.

1901 Notes on lepidopterous larvae from Jamaica, B. W. I. *J. N. Y. Entomol. Soc.* (New York), 9(2):77-82.

Talbot, G.

1928 List of Rhopalocera collected by Mr. C. L. Collenette in Mato Grosso, Brazil. *Bull. Hill. Mus.*, 2(3):192-220.

Terborgh, J.

1977 Bird species diversity on an Andean elelvational gradient. *Ecology* (Tempe), 58:1007-1019.

1985 The role of ecotones in the distribution of Andean birds. *Ecology* (Tempe), 66(4):1237-1246.

Thomas, C. D., and H. C. Mallorie

1985 Rarity, species richness and conservation: butterflies of the Atlas mountains in Morocco. *Biol. Cons.* (Barking), 33:95-117.

Thomas, J. A., D. Moss, and E. Pollard

1994 Increased fluctuations of butterfly populations towards the northern edges of speceis' ranges. *Ecography* (Copenhagen), 17(3):215-220.

Tietz, H. M.

1972 *An Index to the Described Life Histories, Early Stages and Hosts of the Macrolepidoptera of the Continental United States and Canada*. Sarasota: Allyn Museum of Entomology. 1:1-536, 2:537-1040.

Toliver, M. E., R. Holland, and S. J. Cary

1994 *Distribution of the Butterflies of New Mexico (Lepidoptera, Hesperioidea, Papilionoidea), 2nd Edition*. Albuquerque: R. Holland. 440 pp.+[11 pp.].

Tolman, T.

1997 *Butterflies of Britain and Europe*. London: HarperCollins. 320 pp.

Turner, J. R. G., and J. L. B. Mallet

1996 Did forest islands drive the diversity of warningly coloured butterflies? Biotic drift and the shifting balance. *Phil. Trans. R. Soc. Lond.* B (London), 351:835-845.

Tyler, H. A., K. S. Brown Jr., and K. H. Wilson

1994 *Swallowtail butterflies of the Americas. A study in biological dynamics, ecological diversity, biosystematics and conservation*. Gainesville: Scientific Publishers. 376 pp.

Van den Berghe, E., and J. M. Maes

1999 Mariposas de la reserva biológica El Arenal, Matagalpa, Nicaragua. *Rev. Nica. Ent.* (Leon), 47:1-10.

Van der Hammen, T.

1974 The pleistocene changes of vegetation and climate in tropical South America. *J. Biogeog.* (Oxford), 1:3-26.

Vane-Wright, R. I.

1975 The butterflies named by J. F. Gmelin (Lepidoptera: Rhopalocera). *Bull. Brit. Mus. (Nat. Hist.)* (London), 32(2):41-61.

Vane-Wright, R. I., C. J. Humphries, and P. H. Williams

1991 What to protect? - Systematics and the agony of choice. *Biol. Cons.* (Barking), 55:235-254.

Vargas F., I., A. Luis M., J. Llorente B., and A. D. Warren

1996 Butterflies of the state of Jalisco, Mexico. *J. Lepid. Soc.* (Los Angeles), 50(2):97-138.

Voss, R. S., and L. H. Emmons

1996 Mammalian diversity in Neotropical lowland rainforests: a preliminary assessment. *Bull. Am. Mus. Nat. Hist.* (New York), 230:1-115.

Walch, J. E. I.

1775 Beyträge zur Insekten-Geschichte. *Naturforscher* (Halle), 6:123-131.

Wallace, A. R.

1876 *The Geographical Distribution of Animals, with a Study of the Relations of Living and Extinct Faunas as Elucidating the Past Changes of the Earth's Surface.* London: Macmillan. xxi + 503 pp., viii + 607 pp.

Warren, A. D., I. Vargas F., A. Luis M., J. Llorente B.

1998 Butterflies of the state of Colima, Mexico. *J. Lepid. Soc.* (Los Angeles), 52(1):40-72.

Webster, G. L.

1995 *The panorama of Neotropical cloud forests. In*: Churchill, S. P. *et al*. (Eds.), *Biodiversity and Conservation of Neotropical Montane Forests*. New York: New York Botanical Garden. Pp. 53-77.

Weeks, A. G.

1901 Descriptions of nine new Bolivian butterflies. *Trans. Am. Entomol. Soc.* (Philadelphia), 27(45):353-360.

1906 New Lepidoptera. *Canad. Entomol.* (Ottawa), 38(3):76-80.

1911 *Illustrations of diurnal Lepidoptera. With descriptions.* Boston: The University Press. 2: [12]+xvi+37 pp.

Westwood, J. O.

1850 *Genus LV.* Heterochroa. *In*: Doubleday, E., *The genera of diurnal Lepidoptera: comprising their generic characters, a notice of their habits and transformations, and a catalogue of the species of each genus.* London: Longman, Brown, Green & Longmans. 2:276-278.

Weymer, G.

1907 Exotische Lepidopteren. *Deut. Entomol. Zeit "Iris"* (Berlin), 20(1):1-51.

Whittaker, R. H.

1960 Vegetation of the Siskiyou Mountains, Oregon and California. *Ecol. Monogr.* (Durham), 30:279-338.

Williams, P. H., and K. J. Gaston

1998 Biodiversity indicators: graphical techniques, smoothing and searching for what makes relationships work. *Ecography* (Copenhagen), 21(5):551-560.

Williams, P. H., D. Gibbons, C. Margules, A. Rebelo, C. Humphries, and R. Pressey

1996 A comparison of richness hotspots, rarity hotspots, and complementary areas for conserving diversity of British birds. *Cons. Biol*. (Boston), 10(1):155-174.

Williams, P. H., and C. J. Humphries

1996 *Comparing character diversity among biotas. In*: Gaston, K. J. (Ed.), *Biodiversity: a Biology of Numbers and Differences*. London: Blackwell Science. Pp. 54-76.

Williams, P. H., H. M. de Klerk, and T. M. Crowe

1999 Interpreting biogeographical boundaries among Afrotropical birds: Spatial patterns in richness gradients and species replacement. *J. Biogeog.* (Oxford), 26(3):459-474.

Willig, M. R., and S. K. Lyons

1998 An analytical model of latitudinal gradients of species richness with an empirical test for marsupials and bats in the New World. *Oikos* (Copenhagen), 81:93-98.

Willmott, K. R.

1999 *Systematics, Ecology and Biogeography of the Neotropical Butterfly Genus* Adelpha. Gainesville: University of Florida. Unpub. Ph.D. Dissertation. vii+724 pp.

Willmott, K. R., and J. P. W. Hall

1995 Two new species of *Adelpha* from eastern Ecuador (Lepidoptera: Nymphalidae). *Trop. Lepid.* (Gainesville), 6(2):106-109.

1999 Taxonomic notes on Ecuadorian *Adelpha* with the description of two new species and seven new subspecies (Lepidoptera: Nymphalidae: Limenitidinae). *Trop. Lepid*. (Gainesville), 10(1):1-17.

Willmott, K. R., J. P. W. Hall, and G. Lamas.

In press Systematics of the genus *Hypanartia*, with a test for speciation mechanisms in the Andes (Lepidoptera: Nymphalidae: Nymphalinae). *Syst. Ent.* (London), [in press]

Wolda, H.

1978 Seasonal fluctuations in rainfall, food and abundance of tropical insects. *J. Anim. Ecol.* (Oxford), 47(2):369-381

1987 Altitude, habitat and tropical insect diversity. *Biol. J. Linn. Soc.* (London), 30:313-323.

1992 Trends in abundance of tropical forest insects. *Oecologia* (Berlin), 89:47-52.

Woods, C. A. (Ed.)

1989 *Biogeography of the West Indies. Past, Present and Future.* Gainesville: Sandhill Crane Press. xvii+878 pp.

Young, A. M.

1975 Notes on the natural history of a rare *Adelpha* butterfly (Lepidoptera: Nymphalidae) in Costa Rican high country. *J. N. Y. Entomol. Soc.* (New York), 82(4):235-244.

Zikán, J. F., and W. Zikán

1968 Inseto-fauna do Itatiaia e da Mantiqueira. III. Lepidoptera. *Pesq. Agropec. Brasil. (Agron.)* (Rio de Janeiro), 3:45-109.

APPENDIX A

LIST OF *ADELPHA* TAXA DISSECTED

APPENDIX A cont.

APPENDIX C

RECORDED HOSTPLANTS FOR *ADELPHA* TAXA.

APPENDIX C cont.

APPENDIX C cont.

APPENDIX C cont.

APPENDIX C cont.

APPENDIX D

SUMMARY OF PUBLISHED AND UNPUBLISHED EARLY STAGE INFORMATION FOR *ADELPHA* TAXA

APPENDIX D cont.

APPENDIX D cont.

APPENDIX E

LATITUDINAL RANGES FOR *ADELPHA* SPECIES

	LATITUDINAL RANGE/degrees													
	NORTH								SOUTH					
SPECIES	>30	25-30	20-25	15-20	10-15	5-10	0-5	0-5	5-10	10-15	15-20	20-25	25-30	30-35
herbita													x	
gelania				x										
abyla				x										
atlantica												x		
leucerioides				x										
felderi				x										
lamasi							x							
milleri				x										
tracta					x	x								
pithys				x	x									
calliphane												x	x	
poltius												x	x	
demialba					x	x								
hesterbergi						x	x							
rothschildi							x	x						
stilesiana					x	x								
shuara							x	x						
levona						x	x							
diazi		x	x	x										
aricia									x	x	x			
donysa			x	x	x									
gavina											x	x	x	
coryneta									x	x	x			
falcipennis												x	x	x
diocles				x	x	x								
SUBTOTAL (25spp)	0	1	2	9	6	6	5	2	2	2	3	5	5	1
zea											x	x	x	x
leucophthalma					x	x	x	x						
argentea							x	x	x	x				
abia											x	x	x	x
corcyra					x	x	x	x	x					
mythra										x	x	x	x	x
ethelda				x	x	x	x	x						
epizygis										x	x	x	x	x
amazona						x	x	x	x	x				
phylaca				x	x	x	x	x						
leuceria			x	x	x	x	x							
erymanthis				x	x	x	x	x						
salus				x	x	x	x	x						
paroeca		x	x	x	x	x	x							
fessonia		x	x	x	x	x	x							
epione							x	x	x	x	x	x		
syma									x	x	x	x	x	x
fabricia						x	x	x	x	x	x			
pollina						x	x	x	x	x	x			
mesentina						x	x	x	x	x	x			
attica						x	x	x	x	x	x			
boreas						x	x	x	x	x	x			

	LATITUDINAL RANGE/degrees													
	NORTH								SOUTH					
	>30	25-30	20-25	15-20	10-15	5-10	0-5	0-5	5-10	10-15	15-20	20-25	25-30	30-35
saundersii						x	x	x	x	x	x			
justina						x	x	x	x	x	x			
olynthia						x	x	x	x	x	x			
basiloides		x	x	x	x	x	x							
SUBTOTAL (26spp)	0	3	4	8	10	20	22	18	14	15	15	6	5	5
ximena						x	x	x	x	x	x	x		
bredowii	x	x	x	x	x									
hyas								x	x	x	x	x	x	x
sichaeus						x	x	x	x	x	x	x		
irmina					x	x	x	x	x	x	x			
zina					x	x	x	x	x	x	x			
jordani						x	x	x	x	x	x	x	x	
nea			x	x	x	x	x	x	x	x				
paraena				x	x	x	x	x	x	x	x			
radiata						x	x	x	x	x	x	x	x	
seriphia				x	x	x	x	x	x	x	x			
alala					x	x	x	x	x	x	x	x		
thoasa						x	x	x	x	x	x	x	x	
melona						x	x	x	x	x	x	x	x	
viola						x	x	x	x	x	x	x	x	
salmoneus				x	x	x	x	x	x	x	x			
capucinus						x	x	x	x	x	x	x	x	
naxia				x	x	x	x	x	x	x	x			
heraclea				x	x	x	x	x	x	x	x			
boeotia				x	x	x	x	x	x	x	x			
delinita				x	x	x	x	x	x	x	x			
messana				x	x	x	x	x	x	x	x			
thesprotia						x	x	x	x	x	x	x	x	
plesaure					x	x	x	x	x	x	x	x	x	
thessalia						x	x	x	x	x	x	x	x	x
erotia					x	x	x	x	x	x	x	x	x	
SUBTOTAL (26spp)	1	1	2	10	15	23	23	24	24	24	23	14	11	2
cytherea				x	x	x	x	x	x	x	x	x	x	
barnesia				x	x	x	x	x	x	x	x	x	x	
cocala				x	x	x	x	x	x	x	x	x	x	
serpa			x	x	x	x	x	x	x	x	x	x	x	
iphiclus			x	x	x	x	x	x	x	x	x	x	x	
iphicleola			x	x	x	x	x	x	x	x	x	x	x	
malea			x	x	x	x	x	x	x	x	x	x	x	
lycorias			x	x	x	x	x	x	x	x	x	x	x	x
SUBTOTAL (8spp)	0	0	5	8	8	8	8	8	8	8	8	8	8	1
TOTAL	**1**	**5**	**13**	**35**	**39**	**57**	**58**	**52**	**48**	**49**	**49**	**33**	**29**	**9**
North range edges	1	4	8	22	10	21	5	1	3	2	3	4	1	0
South range edges	0	0	0	6	3	4	7	7	1	3	20	5	20	9
Total range edges	**1**	**4**	**8**	**28**	**13**	**25**	**12**	**8**	**4**	**5**	**23**	**9**	**21**	**9**

APPENDIX F

RECORDED AND ESTIMATED NUMBERS OF *ADELPHA* SPECIES AND TAXA FOR ALL COUNTRIES

"x" represents a record, "?" indicates a taxon is expected to occur.

Taxon	USA	Mexico	Guatemala	Belize	El Salvador	Honduras	Nicaragua	Costa Rica	Panama	Colombia	Venezula	Ecuador	Peru	Bolivia	Argentina	Paraguay	Brazil	Uruguay	Guyana	Surinam	French Guiana	Trinidad	Jamaica	Haiti	Dominican Republic	Puerto Rico	Cuba
bredowii	X	X	X			?																					
californica	x	x																									
eulalia	x	x	x			?																					
bredowii		x																									
diocles		X	X		X	?	?	X	X																		
creton		x	x		x	?																					
diocles							?	X	x																		
herbita																	X										
zea															X	X	X	X									
paroeca		X	X		X	?	X	X	X	X		?															
paroeca		x	x		x	?	x	x	x																		
pseudodonysa										x		?															
nea		X	?	X	?	?	?	X	X	X	X	X	X	?			X		X	?	X						
sentia		x	?	x	?	?	?																				
nea								x	x	x	x	x	x	?			x		x	?	x						
paraena		X	X	X	?	X	?	X	X	X	X	X	X	X			X		X	X	X						
massilia		x	x	x	?	x	?	x	x																		
lecromi									x	x		?															
reyi										?	x																
paraena										x	x	x	x	x			x		x	x	x						
radiata								?	X	X	X	X	?	?	?	?	X		?	?	X						
aiellae								?	x	x	?	x															
romeroi										?	x																
explicator										?	?	x	?	?			?										
radiata															?	?	x										
myrlea																	x										
gilletella																	?		?	?	x						
serpa		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	?	X						
celerio		x	x	x	x	x	x	x	x	x	x																
duiliae										?		x															
diadochus										x	x	x	x	x			x		x	?	x						
serpa															x	x	x										
seriphia		X	X	?	X	?	?	X	X	X	X	X	X	X								X					
godmani		x	x	?	x	?	?	x	x	x		x															
egregia										x																	
seriphia											x																
pione										x	x																
aquillia										x		x	x														
therasia													x	x													
barcanti																						x					
hyas										?		X	X	X	X	X	X	X									
hewitsoni										?		x	?														
viracocha													x	x													
hyas															x	x	x	x									
alala										X	X	X	X	X	X												
alala										x	x																
completa										x	x																
negra										x		x	x	x	x												
aricia												?	X	X													
portunus												?	x														
serenita													x														
aricia													x	x													
corcyra										X	X	X	X														
corcyra										x	x																
salazari										x																	
collina										x		x															
aretina										x		x															
dognini												x	x														
tracta							X	X	X																		
pithys		X	X		X	X																					
donysa		X	X		X	X																					
donysa		x	x																								
albifilum					x	x																					
fessonia	X	X	X	X	X	X	X	X	X	X	X													?	X		
fessonia	x	x	x	x	x	x	x	x	x																		
ernestoi										x																	
cestus										?	x																
lapitha																								?	x		

APPENDIX F cont.

Taxon	USA	Mexico	Guatemala	Belize	El Salvador	Honduras	Nicaragua	Costa Rica	Panama	Colombia	Venezula	Ecuador	Peru	Bolivia	Argentina	Paraguay	Brazil	Uruguay	Guyana	Surinam	French Guiana	Trinidad	Jamaica	Haiti	Dominican Republic	Puerto Rico	Cuba
gelania																								**X**	**X**	**X**	
gelania																								x	x		
arecosa																										x	
calliphane															**X**	**X**	**X**	**?**									
poltius																	**X**										
mythra															**X**	**X**	**X**	**?**									
basiloides	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**															
plesaure										**X**	**X**	**X**	**X**	**X**			**X**		**X**	**X**	**X**	**X**					
pseudomalea										x	x																
phliassa										x	x	x	x	x			x		x	x	x						
plesaure																	x										
symona											x								?	?	x	x					
gavina																	**X**										
falcipennis															**X**	**X**	**X**	**?**									
thoasa										**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**		**?**	**X**	**?**						
manilia										x		x	x	x													
thoasa										x	x			x			x										
gerona															x	x	x										
calliphiclea																			?	x	?						
thessalia										**X**	**?**	**X**	**X**	**X**	**X**	**X**	**X**	**X**									
thessalia										x	?	x	x	x													
cesilas														x	x		x										
indefecta															x	x	x	x									
iphiclus		**X**	**X**	**X**	**?**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**?**	**X**	**X**		**X**	**X**	**X**	**X**					
iphiclus		x	x	x	?	x	x	x	x	x	x	x	x	x		x	x		x	x	x	x					
estrecha										?		x															
ephesa															?	x	x										
iphicleola		**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**		**X**	**X**	**X**		**?**	**?**	**?**	**X**					**X**
iphicleola		x	x	x	x	x	x	x	x																		
gortyna									?	x	x	x															
thessalita										?		x	x														
leucates											x				x	x	x		?	?	?	x					
iphimedia																											x
abyla																							**X**				
melona								**?**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**		**X**	**X**	**X**	**X**					
neildi								?	x																		
deborah									?	x	x	x															
leucocoma										x	x	x	x	x			x		x	x	x	x					
melona																	x										
pseudarete															x	x	x										
ethelda		**X**	**?**		**?**	**?**	**?**	**X**	**X**	**X**	**X**	**X**					**?**		**?**	**?**	**X**						
ssp. nov.		x	?		?	?																					
sophax							?	x	x																		
eponina										x																	
zalmona										x	x																
ethelda										x		x															
galbao											x						?		?	?	x						
epione										**X**	**?**	**X**	**X**	**X**	**?**	**?**	**X**										
agilla										x	?	x	x	x													
epione															?	?	x										
syma															**X**	**X**	**X**	**X**									
cytherea		**X**	**X**	**X**	**?**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**?**	**X**		**X**	**X**	**X**	**X**					
marcia		x	x	x	?	x	x	x																			
daguana								x	x	x	x	x															
nahua											x																
olbia										x		x	x														
cytherea										x	x	x	x	x			x		x	x	x						
aea															?	?	x										
insularis																						x					
viola										**X**	**X**	**X**	**X**	**?**			**X**		**X**	**X**	**X**						
pseudococala										x	x	x	x	?			x		x	x	x						
viola																	x										
salmoneus		**X**	**X**	**X**	**?**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**													
salmonides		x	x	x	?	x	x	x	x																		
emilia										x		x															
salmoneus										x	x																
colada										x		x	x	x													
demialba							**?**	**X**	**X**	**?**																	

APPENDIX F cont.

Taxon	USA	Mexico	Guatemala	Belize	El Salvador	Honduras	Nicaragua	Costa Rica	Panama	Colombia	Venezula	Ecuador	Peru	Bolivia	Argentina	Paraguay	Brazil	Uruguay	Guyana	Surinam	French Guiana	Trinidad	Jamaica	Haiti	Dominican Republic	Puerto Rico	Cuba
epizygis															X	X	X	X									
epizygis															x	x	x	x									
epona																	x										
fabricia										X	X	X	X	X			X		X	?	?						
capucinus										X	X	X	X	X	?	?	X		X	X	X						
gutierrezi										?	x																
capucinus										x	x	x	x	x			x		x	x	x						
velia														x	?	?	x										
barnesia		X	X	X	X	X	?	X	X	X	X	X	X	X			X					X					
leucas		x	x	x	x	x	?	x	x	x	x	x															
barnesia										x	?	?	x	x			x										
trinita																						x					
diazi		X																									
hesterbergi								X	?	?		X															
abia															X	X	X	?									
naxia		X	X	X	?	X	?	X	X	X	X	X	X	X			X		?	X	?	X					
naxia		x	x	x	?	x	?	x	x	x	x	x	x	x			x		?	x	?						
oteroi										?	x																
hieronica																						x					
heraclea		?	X	?	?	?	X	X	X	X	X	X	X	?			X										
heraclea		?	x	?	?	?	x	x	x	x	?	x	x	?			x										
makkeda										?	x																
antonii										?	x																
atlantica																	X										
malea		X	X	?	?	X	X	X	X	X	X	X	X	X	X	X	X					X					
fundania		x	x	?	?	x	x	x	x	x	x	?															
ixia											x																
malea										?	x																
aethalia										x	?	x	x	x			x					x					
goyama														x	x	x	x										
boeotia		X	X	?	?	X	?	X	X	X	X	X	X	X		?	X		X	?	X						
oberthurii		x	x	?	?	x	?	x	x																		
boeotia									x	x	x	x	x	x			x		x	?	x						
fidicula																?	x										
amazona										?	?	?	X	?			X		X	?	?						
ximena										X	X	X	X	X			X		?	?	X						
ximena										x	x	x	x	x													
mossi										?	x	?	x	x			x		?	?	x						
delinita		X	X	?	?	X	?	X	X	X	X	X	X	X													
utina		x	x	?	?	x	?	x	x																		
delinita										x	x	x	x	x													
pollina										?	X	X	X	X			X		?	?	X						
erotia		X	?	?	?	?	X	X	X	X	X	X	X	X			X		X	?	X						
erotia		x	?	?	?	?	x	x	x	x	x	x	x	x			x		x	?	x						
caphira										x	x																
phylaca		X	X	X	X	X	?	X	X	X	X	X															
phylaca		x	x	x	x	x																					
pseudaethalia		x	x	?	x	x	?	x	x	x	x	x															
joffrei										?	x																
messana		?	X	?	?	?	?	X	X	X	X	X	X	X			X		?	?	X	?					
messana		?	x	?	?	?	?	x	x	x	x	x															
delphicola										x	x	x	x	x			x		?	?	x	?					
thesprotia										X	X	X	X	X	X	X	X		X	X	X						
mesentina										X	X	X	X	X		X	X		X	X	X						
lycorias		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	?				X					
melanthe		x	x	x	x	x	x	x	x																		
wallisii										x																	
spruceana										x		x															
melanippe										x																	
lara										x	x	x	x	x	x							x					
lycorias															x	x	x	?									
attica								?	X	X	X	X	X	X			X										
hemileuca										x		x															
attica									x	x	x	x	x	x			x										
leuceria		X	X	?	X	X	X	X	X	X		X															
leuceria		x	x	?	x	x	x	x	x																		
juanna										x		x															
leucerioides		X	X																								

APPENDIX F cont.

Taxon	USA	Mexico	Guatemala	Belize	El Salvador	Honduras	Nicaragua	Costa Rica	Panama	Colombia	Venezula	Ecuador	Peru	Bolivia	Argentina	Paraguay	Brazil	Uruguay	Guyana	Surinam	French Guiana	Trinidad	Jamaica	Haiti	Dominican Republic	Puerto Rico	Cuba
erymanthis		**X**	**?**			**?**	**X**	**X**	**X**	**X**		**X**															
esperanza		x																									
erymanthis		x	?			?	x	x	x																		
adstricta										x																	
fortunata												x															
sichaeus										**X**	**X**	**X**	**X**	**X**													
rothschildi										**X**		**X**															
stilesiana								**X**	**X**																		
boreas							**?**	**X**	**X**	**X**	**X**	**X**	**X**	**X**			**?**		**X**	**?**	**X**						
boreas							?	x	x	x	x	x	x	x													
kayei											x						?		x	?	x						
cocala		**X**	**X**	**?**	**?**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**			**X**		**X**	**X**	**X**						
lorzae		x	x	?	?	x	x	x	x	x	x	x															
orellanae										?	x																
cocala										x	x	x	x	x			x		x	x	x						
didia																	x										
caninia																	x										
felderi		**X**	**X**	**X**		**X**																					
leucophthalma							**X**	**X**	**X**	**X**		**X**															
leucophthalma							x	x	x	x																	
smalli									x																		
irminella										?		x															
irmina										**X**	**X**	**X**	**X**	**X**					**X**								
irmina										x	x								x								
tumida										x		x	x	x													
saundersii										**X**		**X**	**X**	**X**													
frontina										x		x															
saundersii										x		x	x														
helepecki													x	x													
lamasi										**X**		**X**															
salus		**X**	**?**			**?**	**?**	**X**	**X**	**X**		**X**															
ssp. nov.		x	?			?	?	x	x																		
salus										x																	
emmeli										?		x															
shuara										**X**		**X**	**?**														
argentea										**X**		**X**	**X**	**?**													
coryneta												**?**	**X**	**X**													
jordani										**?**		**X**	**X**	**X**	**X**		**X**		**X**								
zina							**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**													
lacina							x	x	x																		
zina									x	x	x	x															
inachia										x																	
desousae											x																
pyrczi											x																
enope										x																	
irma										x		x	x	x													
milleri		**X**	**?**																								
justina										**X**	**X**	**X**	**X**	**X**													
justina										x		x															
maira										?																	
justinella											x																
inesae											x																
valentina										x		x	x	x													
olynthia										**X**	**?**	**X**	**X**	**X**													
levona										**X**		**X**															
Taxa																											
Total recorded	4	36	28	14	14	21	18	35	40	88	67	74	52	44	21	19	59	5	19	12	21	11	1	1	2	1	1
Total expected	4	38	34	24	28	32	32	38	43	112	76	82	55	50	25	24	63	10	28	26	26	11	1	2	2	1	1
Recorded as % of expected	100	95	82	58	50	66	56	92	93	79	88	90	95	88	84	79	94	50	68	46	81	100	100	50	100	100	100
Expected as % of genus	1.9	18	16	12	14	15	15	18	21	54	37	40	27	24	12	12	30	4.8	14	13	13	5.3	0.5	1	1	0.5	0.5
Species																											
Total recorded	3	32	27	14	13	20	18	34	36	54	41	56	46	39	19	18	43	5	19	12	20	11	1	1	2	1	1
Total expected	3	34	33	23	27	31	32	37	37	60	45	60	48	45	23	23	45	10	27	25	25	11	1	2	2	1	1
Recorded as % of expected	100	94	82	61	48	65	56	92	97	90	91	93	96	87	83	78	96	50	70	48	80	100	100	50	100	100	100
Expected as % of genus	3.5	40	39	27	32	36	38	44	44	71	53	71	56	53	27	27	53	12	32	29	29	13	1.2	2.4	2.4	1.2	1.2

"X" represents a record, "?" indicates a taxon is expected to occur. Horizontal lines separate groups of closely related species, which may or may not be monophyletic – group divides occuring at a page breaks marked by double line. See text and Table 1 for further details.

APPENDIX G

NOMINA NUDA AND NAMES ERRONEOUSLY INCLUDED IN *ADELPHA*

Nomina nuda

plesaure Hübner, [1819]
isabellina (Isabelle, 1835) *Heterechroa* [sic]
thoasa (Westwood, 1850) *Heterochroa*
zeba (Westwood, 1850) *Heterochroa*
zea (Westwood, 1850) *Heterochroa*
ephesa (Ménétriès, 1855) *Heterochroa*
tyrea Martín *et al*., [1923]
maina Martín *et al*., [1923]
ophidusa Martín *et al*., [1923]
ozolis Martín *et al*., [1923]
faebina Martín *et al.*, [1923]
thyrea Martín *et al*., [1923]
mincia Martín *et al*., [1923]
pantarheia Martín *et al*., [1923]
panthalis Martín *et al*., [1923]
patricia Martín *et al*., [1923]
improvida Martín *et al*., [1923]
transiens D'Abrera, 1987

Names erroneously included in *Adelpha* by authors

Phliase. phliassus Cramer 192 A, B, Hübner ([1819])= *Synargis phliasus* (Riodinidae)
marse Hübn., Westwood (1850) = *Doxocopa vacuna* (Godart) (Apaturinae)
elea Fab., Kirby (1871) = misspelling of *eleus* Linn.
lorquini Boisd., Kirby (1871) = *Limenitis lorquini* Boisduval
A. ? *lepechini* Ersch., Kirby (1877) = *Limenitis lepechini* Erschoff

APPENDIX H

NOMENCLATURAL CHANGES, ERRORS AND MISIDENTIFICATIONS OF FIGURED *ADELPHA* IN POPULAR WORKS
nom. ssp. = nominate subspecies; mon. sp. = monotypic species; D-dorsal, V-ventral surface.

Godman & Salvin (1884): **Tab. XXVIII**: 1, 2, *A. melanthe* = *A. lycorias melanthe*; 3, 4, *A. salmoneus* = *A. salmoneus salmonides*; 9, 10, *A. epiphicla* = *A. naxia naxia*; 11, 12, *A. iphicleola* = *A. iphiclus iphiclus*; 13, 14, *A. falcata* = *A. felderi*; **Tab. XXIX**: 1, 2, *A sophax* = *A. ethelda sophax*; 3, 4, *A. oberthurii* = *A. boeotia oberthurii*; 5, 6, *A. erymanthis* = nom. ssp.; 7, 8, *A. massilia* = *A. seriphia godmani*; 9, 10, *A. sentia* = *A. nea sentia*; 11, *A. tizona* = *A. boreas boreas*; 12, 13, *A. lerna* = *A. erotia erotia*; 14, 15, *A. erotia* = *A. phylaca pseudaethalia*; 16, 17, *A. pione* = *A. seriphia pione*; 18, 19, *A. fessonia* = nom. ssp.; **Tab. XXX**: 1, 2, *A. phylaca* = nom. ssp.; 3, 4, *A. diocles* = nom. ssp.; *A. leucernia* = *A. leuceria leuceria*.

Fruhstorfer (1913, 1916, 1920) (**NOTE**: subspecies named on the plate with a single name are not corrected to a trinomial if correct in the text): **pl. 106**: **a**: *levicula* = *A. olynthia*; *privata*, *leucopetra* = *A. sichaeus*; **b**: *irisa* = *A. sichaeus*; *ernestina* = *A. jordani*; *cocalina* = *A. cocala lorzae*; *cocala* = *A. cocala caninia*; **c**: *urracina*, *saparua* = *A. cocala cocala*; *davisi* = *A. boeotia boeotia*; *sarana* = *A. malea aethalia*; **d**: *leopardus* = *A. malea goyama*; *aethatia* = *A. malea aethalia*; *metaxa* = *A. fabricia*; **e**: *frusina* = *A. malea aethalia*; *erotia* = *A. delinita delinita*; *permagna* = *A. erotia erotia*; *deleta* = *A. erotia caphira*; **f**: *praetura* = *A. fabricia*; *nava* = *A. thesprotia*; *phylacides* = *A. capucinus capucinus*; **pl. 107**: **a**: *urraca* = *A. cocala cocala*; *phliassa* = *A. plesaure phliassa*; *lerna* = *A. erotia erotia*; **b**: *leonina*, *archidona*, *aeolia* = *A. erotia erotia*; *fufia* = *A. cocala lorzae*; *pseudomessana* = *A. barnesia barnesia*; **c**: *damon* = *A. serpa serpa*; *phintias* = *A. serpa celerio*; **d**: *duiliae* = *A. serpa duiliae*; *celerio* = *A. serpa celerio*; *godmani* = *A. seriphia godmani*; *diademeta* = *A. serpa celerio*; *iphicleola* = *A. iphiclus iphiclus*; **e**: *indefecta* = *A. thessalia indefecta*; *massilia* = *A. iphicleola iphicleola*; *silia* = *A. thoasa thoasa*; **f**: *pravitas* = *A. syma*; *restricta* = *A. zina zina*; **pl. 108**: **a**: *ehrhardti* = *A. alala negra*; *negrina* = *A. alala negra*; **b**: *tarratia* = *A. cytherea daguana*; *lanilla* = *A. cytherea cytherea*; **c**: *mythra* = *A. cytherea aea*; *verenda* = *A. boreas boreas*; *irma* = *A. zina irma*; **d**: *tizona*, *tizonides* = *A. boreas boreas*; *sophax* = *A. ethelda sophax*; **e**: *epione* = *A. epione agilla*; **f**: *hypsina* = *A. lycorias wallisii*; *lara* = *A. lycorias lara*; *isis* = *A. lycorias lycorias*; **pl. 109**: **a**: *abia* = *A. thessalia indefecta*; **b**: *fundania* = *A. malea fundania*; **c**: *leuceria* = *A. malea malea*; *malea* = *A. leuceria leuceria*; *cestus* = *A. fessonia cestus*; **d**: *ethelda* = nom. ssp.; *melanippe* = *A. lycorias melanippe*; **f**: (*Limenitis*) *californica* = *A. bredowii californica*; **pl. 110A**: **a**: *serita* = *A. attica attica*; *meridionalis* = *A. melona leucocoma*; **b**: *arete* = *A. melona melona*; *tarpeja* = *A. zea*.

Hayward (1964): **pl. 8**: 1, 2, *A. cytherea* = nom. ssp.; 8, 9, *A. iphiclus* = *A. iphiclus ephesa*; 11, *A. arete pseudarete* = *A. melona pseudarete*; 12, *A. goyama* = *A. malea goyama*; 13, *A. delphicola ophellas* = *A. thesprotia*; 17, *A. mincia* = *A. thessalia indefecta*; 18, *A. serpa* = nom. ssp.; 19, *A. mincia ampla* = *A. thessalia cesilas*; **pl. 9**: 4, 7, *A. serpa* fa. *hyas* = *A. hyas hyas*; 5, *A. alala fillo* = *A. alala negra*; 8, *A. lara* = *A. lycorias lara*; 10, *A. isis* = *A. lycorias lycorias*.

Barcant (1970): **pl. 5**: *A. aethalia* = *A. messana delphicola* or *A. thesprotia*, possibly *A. erotia erotia*; *A. seriphia* = *A. seriphia barcanti*; **pl. 8**: *A. iphicla* = *A. iphicleola leucates* or *A. iphiclus iphiclus*; *A. phliassa symona* = *A. plesaure symona*; **pl. 20**: *A. lara* = *A. lycorias lara*; **pl. 25**: *A. naxia* = *A. naxia hieronica*; *A. phylaca trinita* = *A. barnesia trinita*; *A. velia trinina* = *A. malea aethalia*; *A. melona nonsecta* = *A. melona leucocoma*.

Lewis (1973): **p. 30**: 1, *A. abia* = *A. thessalia indefecta*; 2, *A. alala* = *A. alala completa*; 3, *A. arete* = *A. melona melona*; 4, *A. boreas* = nom. ssp.; 5, *A. celerio* = *A. serpa celerio*; 6, *A. cocala* = nom. ssp.; 7, *A. cytherea* = *A. cytherea daguana*; 9, *A. epione* = *A. epione agilla*; 10, *A. erotia* = nom. ssp. (f. *lerna*); 12, *A. iphicla* = *A. iphicleola iphicleola*; 13, *A. irmina* = nom. ssp.; 14, *A. isis* = *A. lycorias lycorias*; 15, *A. lara* = *A. lycorias lara*; 16, *A. leuceria* = nom. ssp.; 17, *A. melona* = *A. melona leucocoma*; 18, *A. nea* = nom. ssp.; 20, *A. plesaure* = nom. ssp.; 21, *A. plylaca* = *A. phylaca pseudaethalia*; 22, 23, *A. serpa* = *A. serpa diadochus*; **p. 31**; 2, *A. thoas* = *A. thoasa thoasa*; 4, *A. zalmona* = *A. ethelda zalmona.*

Riley (1975): **pl. 7**: *A. iphicla iphimedia* = *A. iphicleola iphimedia*.

Sakaguti (1983): **pl. 36**: 1, *A. epione* = *A. epione agilla*; 2, *A. irmina* = *A. irmina tumida*; 3, *A. leucophthalma* = nom. ssp.; 4, *A. helepecki* = *A. irma*; 5, *A.* sp. = *A. basiloides*; 6, *A. erotia* = *A. barnesia barnesia*; 7, *A. plesaure* = *A. cocala caninia*; 8, *A. phylaca* = prob. *A. thesprotia*; 11, *A. alala* = nom. ssp.; 12, *A. cytherea* = nom. ssp.

De la Maza (1987): **Lam. XLVI**: Fig. 5, *A. escalantei* = *A. delinita utina*; Fig. 9, *A. felderi jarias* = *A. felderi*; Fig. 10, *A. melanthe* = *A. lycorias melanthe*; Fig. 12, *A. salmoneus emilia* = *A. salmoneus salmonides*; Fig. 13, *A. donysa* = nom. ssp.; Fig. 14, *A. boeotia oberthurii* = *A. phylaca pseudaethalia*; **Lam. XLVII**: Fig. 3, *A. creton* = *A. diocles creton*; Fig. 5, *A. phylaca* = nom. ssp.; Fig. 6, *A. massilia* = *A. iphicleola iphicleola*; Fig. 7, *Limenitis bredowii eulalia* = *Adelpha bredowii eulalia*; Fig. 8, *Limenitis bredowii bredowii* = *Adelpha bredowii bredowii*; **Lam. XLIX**: Fig. 2, *A. leuceria* = nom. ssp.

DeVries (1987): **pl. 26**: 7, *A. melanthe* = *A. lycorias melanthe*; 8, 9, *A. zalmona sophax* = *A. ethelda sophax*; 10, 11, *A. boreas opheltes* = *A. boreas boreas*; 14, *A. leucophthalma* = nom. ssp.; 15, *A. zina* = nom. ssp.; 16, *A. justina lacina* = *A. zina lacina*; 20, 21, *A. heraclea* = nom. ssp.; 22, 23, *A. boeotia boeotia* = *A. boeotia oberthurii*; 24, *A. erymanthis* = nom. ssp.; **pl. 27**: 1, 2, *A. iphiclus* = (probably) *A. iphicleola gortyna*; 3, 4, *A. erotia* = nom. ssp.; 5, 6, *A. lerna aeolia* = *A. erotia erotia*; 7, 8, *A. phylaca* = *A. messana messana*; 9, 10, *A. naxia* = nom. ssp.; 11, 12, *A. ixia leucas* = *A. barnesia leucas*; 13, *A. leuceria* = nom. ssp.; 16, 17, *A. diocles* = nom. ssp.; 18, 19, *A. celerio* = *A. serpa celerio*; 20, *A. fessonia* = nom. ssp.; 22, 23, *A. zea paraeca* = *A. paroeca paroeca*.

D'Abrera (1987): **p. 634**: *A. lara mainas* = *A. lycorias lara*; *A. lara* f. *transiens* = *A. lycorias lara*; *A. lara hypsenor* = *A. lycorias wallisii*; *A. lara fassli* = *A. lycorias wallisii* x *A. l. melanippe*; **p. 635**: *A. isis* f. *isis* = *A. lycorias lycorias*; *A. melanthe melanthe* = *A. lycorias melanthe*; *A. melanthe spruceana* = *A. lycorias spruceana*; **p. 636**: *A. zalmona* = *A. ethelda zalmona*; *A. zalmona* f. *eponina* = *A. ethelda eponina*; *A. deborah* = *A. melona deborah*; *A. salmoneus* = *A. salmoneus emilia*; *A. ximena* = nom. ssp.; **p. 637**: *A. boreas tizonides* = *A. boreas boreas*; *A. irma* = *A. zina irma*; *A. irmina* = *A. irmina tumida*; *A. iaere* = *A. leucophthalma irminella*; **p. 638**: *A. leucophthalma* = nom. ssp.; *A. zina* = nom. ssp.; *A. justina* = nom. ssp.; *Adelpha* ? sp. = *A. zina irma* (form); *A. valentina* = *A. justina valentina*; **p. 639**: *A. alala* = *A. alala completa*; *A. corcyra* = nom. ssp.; *A. collina* = *A. corcyra collina*; *A. aricia* = nom. ssp.; *A. aricia* ? f. *serenita* R= *A. aricia portunus*; *A. aricia* ? f. *serenita* V = *A. aricia serenita* or *A. aricia portunus*; **p. 640**: *A. pseudococala* = *A. viola pseudococala*; *A. cocala cocala* = *A. cocala lorzae*; *A.* ? *jacquelinae* = *A. boeotia oberthurii*; **p. 641**: *A.* ? *fufia* = *A. heraclea heraclea*; *A. trinina* = *A. malea aethalia*; *A. fugela* = *A. heraclea heraclea*; *A.* ? *pollina* = *A. pollina*; **p. 642**: *A. makkeda* = *A. heraclea makkeda*; *A. phylaca* f. *phylaca* = *A. phylaca phylaca*; *A. phylaca* f. *frusina* = *A. phylaca pseudaethalia*; *A. aethalia* = *A. malea aethalia*; *A. delinita* = nom. ssp.; **p. 643**: *A. erymanthis* = nom. ssp.; *A. uta* = *A. pollina*; *A. thesprotia* = *A. capucinus capucinus*; *A. thesprotia* f. *jurua* = *A. capucinus capucinus*; *A. delphicola* = *A. thesprotia*; *A.* ? *barnesia* = *A. ximena mossi*; **p. 644**: *A. erotia* f. *erotia* = nom. ssp. (f. *erotia*); *A. erotia* f. *lerna* = nom. ssp. (f. *lerna*); *A. erotia* f. *erota* = nom. ssp. (f. *erotia*); *A. goyama* = *A. malea goyama*; *A. trinita* = *A. barnesia trinita*.

APPENDIX H cont.

D'Abrera (1987) cont.: **p. 645**: *A. velia* = *A. capucinus velia*; *A. cytherea* ? *despoliata* = *A. cytherea daguana*; *A. syma* = *A. mythra*; *A. mythra* = *A. syma*; **p. 646**: *A. diocles* = *A. diocles creton*; *A. thoasa* ? *manilia* = *A. thoasa manilia*; *Adelpha* ? sp. = *A. thoasa gerona*; *A. gerona* = *A. thoasa gerona*; **p. 647**: *A. thessalia* = nom. ssp.; *A. iphiclus iphicleola* R = *A. iphiclus iphiclus*; *A. iphiclus iphicleola* V = *A. iphicleola iphicleola*; *A. iphiclus iphimedia* = *A. iphicleola iphimedia*; *A. naxia* = nom. ssp.; **p. 648**: *A. ixia fundania* = *A. barnesia leucas*; *A. mincia* = *A. thessalia indefecta*; *A. epizygis* = nom. ssp.; *A. perga* = *A. falcipennis*; **p. 649**: *A. donysa* ? = *A. donysa donysa*; *A. gelania* = nom. ssp.; **p. 650**: *A. leuceria* = nom. ssp.; *A. ethelda* = nom. ssp.; *A. fessonia* = nom. ssp.; **p. 651**: *A. cestus* = *A. fessonia ernestoi*; *A. attica carmela* = *A. attica hemileuca*; **p. 652**: *A. arete arete* = *A. melona melona*; *A. biedermanni* = *A. melona leucocoma* (melanic form); **p. 653**: *A. melona* = *A. melona leucocoma*; *A. nea* = nom. ssp.; *A. serpa godmani* = *A. seriphia godmani*; *A. serpa pione* = *A. seriphia pione*; *A. serpa hyas* = *A. hyas hyas*; *A. serpa* ? subsp. = *A. hyas viracocha*; *A. paraena* = nom. ssp.

Brown (1992): **Fig. 9**: No. 29, *A. isis* = *A. lycorias lycorias*; No. 36, *A. phliassa pleasure* = *A. cocala caninia*; No. 37, *A. cocala riola* = *A. plesaure plesaure*; No. 40, 41, *A. mincia* = *A. thessalia indefecta*; No. 44, 45, *A. poltius* = *A. gavina*; No. 48, 49, *A. calliphane* = *A. poltius*; No. 50, *A. gavina* = *A. calliphane*.

Smith *et al.* (1994): **pl. 8**: 13, *A. lapitha* = *A. fessonia lapitha*; 15, *A. iphicla iphimedia* = *A. iphicleola iphimedia*.

Neild (1996): **pl. 1**: 3, 4, *A. m. mesentina* = mon. sp.; 5, 6, *A. boreas tizona* = *A. boreas boreas*; 9, 10, *A. ximena willmotti* = *A. ximena mossi*; 11, 12, *A. deborah* = *A. melona deborah*; 13, 14, *A. zalmona zalmona* = *A. ethelda zalmona*; 17, 18, *A. irma desousae* = *A. zina desousae*; 29, 30, *A. olynthia pyrczi* = *A. zina pyrczi*; 33, 34, *A. alala titia* = *A. alala completa*; 41-43, *A. cocala fufina* = *A. cocala lorzae*; **pl. 2**: 47-50, *A. pseudococala* = *A. viola pseudococala*; 67, 68, *A. malea trinina* = *A. malea aethalia*; 81, 82, *A. phylaca delphicola* = *A. messana delphicola*; 90-93, *A. juruana juruana* = *A. capucinus capucinus*; 94, **pl. 3**: 95, 96, *A. juruana gutierrezi* = *A. capucinus gutierrezi*; 97-99, *A. thesprotia thesprotia* = mon sp.; 107, *A. erotia deleta* = *A. erotia erotia*; 109, 110, *A. lerna lerna* = *A. erotia erotia*; 111-113, *A. lerna caphira* = *A. erotia caphira*; 115, 116, *A. cytherea despoliata* = *A. cytherea daguana*; 122, 123, *A. iphiclus exanima* = *A. iphiclus iphiclus*; 125, 126, *A. iphiclus phera* = *A. iphicleola leucates*; 129, 131, 132, *A. iphicleola* = nom. ssp.; 130, *A. iphicleola* ssp. nov.? = *A. iphicleola gortyna*; 133, 134, *A. basiloides lativittata* = *A. basiloides basiloides*; 141, 142, *A. himera* = *A. malea ixia*; 143, 144, *A. ixia ixia* = *A. malea ixia*; **pl. 4**: 145, 146, *A. ixia ixia* = *A. malea ixia*; 147-150, *A. ixia fundania* = *A. malea fundania*; 150-152, *A. leucas leucas* = *A. barnesia leucas*; *A. leucas trinita* = *A. barnesia leucas*; 154-156, *A. messana* = nom. ssp.; 160-162, *A. melona melona* = *A. melona leucocoma*; 163-165, *A. nea* = nom. ssp.; 179-182, *A. celerio celerio* = *A. serpa celerio*; 183, *A. celerio timehri* = *A. serpa diadochus*; 185-187, *A. celerio diadochus* = *A. serpa diadochus*.

APPENDIX I

DATA FOR FIGURED SPECIMENS OF *ADELPHA*, FIGS. 31-116

Erroneous localities enclosed in quotes, correct countries if different to label data in [ ]; all specimens are male unless marked "♀"; HT - holotype; AT - allotype; ST - syntype; PT - paratype; LT - lectotype; PLT - paralectotype; NT - neotype.

31a,b: *A. radiata romeroi*, ♀, Río Frío, Táchira, Venezuela, R (**HT**).

PLATE 1: 32a,b: *A. bredowii bredowii*, Omiltene, Guerrero, Mexico, BMNH; **c,d**: *A. bredowii eulalia*, The Basin, Big Bend National Park, Texas, USA, FSCA; **e,f**: *A. bredowii californica*, Chews Ridge, Monterey, California, USA, FSCA. **33a,b**: *A. diocles diocles*, Volcán Chiriquí, Chiriquí, Panama, BMNH (**ST**); **c,d**: *A. diocles creton*, ♀, Jalapa, Veracruz, Mexico, USNM (**ST**). **34a,b**: *A. herbita*, ♀, original illustration of **HT**, Santa Catharina, Brazil (Weymer, 1907). **35a,b**: *A. zea*, Santa Catharina, Brazil, BMNH(T) (ST *serpentina*). **36a,b**: *A. paroeca paroeca*, terra caliente, Mexico, BMNH (ST *emathia*); **c,d**: *A. paroeca paroeca*, Potrerillos, Chiriquí, Panama, USNM; **e,f**: *A. paroeca pseudodonysa*, Río Ábita, Colombia, MHNUC (**HT**) (NOTE: this figure is not on the plate but in the text). **37a,b**: *A. nea nea*, Chichicorrumi, Napo, Ecuador, KWJH; **c,d**: *A. nea sentia*, Corosal, Belize, BMNH (**ST**). **38a,b**: *A. paraena paraena*, Finca San Carlo, Napo, Ecuador, KWJH; **c,d**: *A. paraena lecromi*, Bogotá, Colombia, USNM (**HT**); **e,f**: *A. paraena reyi*, Las Quiguas, Esteban Valley, Carabobo, Venezuela, BMNH (**HT**); **g,h**: *A. paraena massilia*, Finca Taboga, Costa Rica, FSCA.

PLATE 2: 39a,b: ***A.*** *radiata radiata*, Blumenau, Santa Catharina, Brazil, BMNH(T) (**ST**); **c,d**: *A. radiata myrlea*, Espírito Santo, Brazil (**HT**); **e,f**: *A. radiata explicator*, Finca San Carlo, Napo, Ecuador, KWJH (**HT**); **g,h**: *A. radiata aiellae*, ridge east of Río Baboso, nr. Lita, Carchi, Ecuador, KWJH (**HT**); **i,j**: *A. radiata gilletella*, original illustration of **HT**, Galion, Roura, French Guiana (Brévignon, 1995). **40a,b**: *A. serpa serpa*, Blumenau, Santa Catharina, Brazil, BMNH (ST *damon*); **c,d**: *A. serpa diadochus*, Marcapata, Cuzco, Peru, BMNH (**ST**?); **e,f**: *A. serpa celerio*, Polochic Valley, Alta Verapaz, Guatemala, BMNH (**LT**); **g,h**: *A. serpa duiliae*, Las Juntas, Río Golondrinas, Carchi, Ecuador, KWJH. **41a,b**: *A. seriphia seriphia*, ♀, no locality, BMNH; **c,d**: *A. seriphia pione*, nr. Mérida, Mérida, Venezuela, KWJH; **e,f**: *A. seriphia aquillia*, Chinchin, Río Chinchin Chico, Tungurahua, Ecuador, KWJH; **g,h**: *A. seriphia godmani*, Orizaba, Veracruz, Mexico, BMNH (**ST**); **i,j**: *A. seriphia therasia*, Río Songo, La Paz, Bolivia, ZMHU (**ST**?); **k,l**: *A. seriphia egregia*, Sarachui, Sierra Nevada de Santa Marta, Colombia, BMNH.

PLATE 3: 41m,n: *A. seriphia barcanti*, El Tucuche, Trinidad, BMNH (**HT**). **42a,b**: *A. hyas hyas*, Passo Quatro, Sul de Minas, Minas Gerais, Brazil, BMNH; **c,d**: *A. hyas viracocha*, Chanchamayo, Peru, BMNH (**HT**); **e,f**: *A. hyas hewitsoni*, Pimpilala, Napo, Ecuador, KWJH (**HT**). **43a,b**: *A. alala alala*, Venezuela, BMNH(T) (**ST**); **c,d**: *A. alala negra*, Colombia, BMNH (ST *praecaria*); **e,f**: *A. alala negra*, Peru, BMNH (ST *cora*); **g,h**: *A. alala completa*, Colombia, BMNH (**HT**). **44a,b**: *A. aricia aricia*, Bolivia, BMNH(T) (**ST**); **c,d**: *A. aricia serenita*, Peru, BMNH (**ST**); **e,f**: *A. aricia portunus*, Tambillo, Cajamarca, Peru, BMNH (**ST**). **45a,b**: *A. corcyra corcyra*, New Grenada [Colombia], BMNH(T) (**ST**); **c,d**: *A. corcyra salazari*, Kancrúa, Sierra Nevada de Santa Marta, Colombia, BMNH (**HT**); **e,f**: *A. corcyra aretina*, Río Machay, Tungurahua, Ecuador, KWJH; **g,h**: *A. corcyra dognini*, Loja, Ecuador, BMNH (**HT**).

PLATE 4: 45i,j: *A. corcyra collina*, Río Las Palmeras, old Quito-Sto. Domingo rd., Pichincha, Ecuador, KWJH. **46a,b**: *A. tracta*, Cerro de la Muerte, San José, Costa Rica, FSCA. **47a,b**: *A. pithys*, Guerrero, Mexico, BMNH (ST? *vodena*). **48a,b**: *A. donysa donysa*, Mexico, BMNH (**LT**); **c,d**: *A. donysa albifilum*, Hda. Montecristo, Metapán, El Salvador, AME (**HT**); **e,f**: *A. donysa* ssp. nov.?, Polochic Valley, Alta Verapaz, Guatemala, BMNH. **49a,b**: *A. fessonia fessonia*, Santa Rosa, Guanacaste, Costa Rica, KWJH; **c,d**: *A. fessonia ernestoi*, L. Sapatoza Region, Chiriguana District, El César, Colombia, BMNH (**HT**); **e**: *A. fessonia ernestoi*, ♀, de Bogotá a Buenaventura, Colombia, BMNH (**AT**); **f**: *A. fessonia cestus*, ♀, Venezuela, BMNH(T) (**ST**); **g,h**: *A. fessonia cestus*, Caracas, Distrito Federal, Venezuela, AME; **i,j**: *A. fessonia lapitha*, San Juan, 9 km. E. Vallejuelo, Dominican Republic, AME. **50a,b**: *A. gelania gelania*, Pico Duarte, Dominican Republic, KWJH; **c,d**: *A. gelania arecosa*, km. 23 rt. 143, Toro Negro, Puerto Rico, AME. **51a,b**: *A. calliphane*, Rio, Rio de Janeiro, Brazil, BMNH (**LT**); **52a,b**: *A. poltius*, Minas Gerais, Brazil, BMNH (**HT**).

PLATE 5: 53a,b: *A. mythra*, Rio Rio de Janeiro, Brazil, BMNH(T) (ST *zeba*). **54a,b**: *A. basiloides*, Mexico, BMNH (ST *lemnia*); **c,d**: *A. basiloides*, km. 20 San Lorenzo-Lita rd., Esmeraldas, Ecuador, KWJH. **55a,b**: *A. plesaure plesaure*, Brazil, ZMHU (**ST**); **c,d**: *A. plesaure phliassa*, Peru, BMNH(T) (ST *implicata*); **e,f**: *A. plesaure symona*, ♀, Sta. Cruz, Trinidad, AME (**ST**); **g,h**: *A. plesaure pseudomalea*, ♀, Muchuchachi, Mérida, Venezuela, BMNH (**HT**). **56a,b**: *A. gavina*, Blumenau, Santa Catharina, Brazil, BMNH (**LT**). **57a,b**: *A. falcipennis*, Blumenau, Santa Catharina, Brazil, BMNH (ST *perga*). **58a,b**: *A. thoasa thoasa*, Tapajós, Pará, Brazil, BMNH (**PLT**); **c,d**: *A. thoasa manilia*, Pimpilala, Napo, Ecuador, KWJH; **e,f**: *A. thoasa calliphiclea*, original illustration of **HT**, Surinam (Cramer, 1781); **g,h**: *A. thoasa gerona*, Minas Gerais, Brazil, BMNH (**ST**); **i,j**: *A. thoasa* ssp. nov.? (=*brevifascia* Talbot), ♀, Buriti, Mato Grosso, Brazil, AME. **59a,b**: *A. thessalia thessalia*, Shell, Río Pindo Grande, Pastaza, Ecuador, KWJH.

PLATE 6: 59c,d: *A. thessalia cesilas*, Río Pilcomayo-Río Grande, Chuquisaca, Bolivia, BMNH (**ST**); **e,f**: *A. thessalia indefecta*, Paraguay, BMNH (LT *mincia*). **60a,b**: *A. iphiclus iphiclus*, Cayenne, French Guiana, BMNH (**NT**, and NT *basilea*); **c,d**: *A. iphiclus iphiclus*, Venezuela, BMNH (LT *exanima*); **e,f**: *A. iphiclus estrecha*, Río Tanti, Pichincha, Ecuador, KWJH (**PT**); **g,h**: *A. iphiclus ephesa*, Blumenau, Santa Catharina, Brazil, BMNH(T) (ST *gellia*). **61a,b**: *A. iphicleola iphicleola*, Polochic Valley, Alta Verapaz, Guatemala, BMNH(T) (**ST**); **c,d**: *A. iphicleola leucates*, ♀, Bahia, Brazil, BMNH (**HT**); **e,f**: *A. iphicleola iphimedia*, Cuba, BMNH (**ST**); **g,h**: *A. iphicleola gortyna*, Bogotá, Colombia, BMNH (**LT**); **i,j**: *A. iphicleola gortyna*, Municipio Anserma, Risaralda, Colombia, ESM; **k,l**: *A. iphicleola thessalita*, Finca San Carlo, Napo, Ecuador, KWJH (**HT**). **62a,b**: *A. abyla*, ♀, Jamaica, BMNH(T) (**ST**). **63a,b**: *A. melona melona*, Rio, Rio de Janeiro, Brazil, BMNH; **c,d**: *A. melona pseudarete*, Espírito Santo, Brazil, BMNH; **e,f**: *A. melona leucocoma*, no locality, BMNH(T) (**ST**); **g,h**: *A. melona neildi*, Santa Rita, Colón, Panama, USNM (**HT**).

PLATE 7: 63i,j: *A. melona deborah*, Río Piguambí, km. 5 Lita-San Lorenzo rd., Esmeraldas, Ecuador, KWJH. **64a,b**: *A. ethelda ethelda*, Rio Tanti, Pichincha, Ecuador, KWJH; **c,d**: *A. ethelda eponina* x *A. ethelda ethelda*, Río Anchicayá, Valle del Cauca, Colombia, AME; **e,f**: *A. ethelda eponina*, Río Aguacatal, Valle del Cauca, Colombia, BMNH (ST *volupis*); **g,h**: *A. ethelda zalmona*, New Grenada [Colombia], BMNH(T) (**ST**); **i,j**: *A. ethelda sophax*, Cache, Cartago, Costa Rica, BMNH (**LT**); **k,l**: *A. ethelda* ssp. nov., Río Chixoy, Chiapas, Mexico, AME; **m,n**: *A. ethelda galbao*, original illustration of **HT**, Saül, French Guiana, LCB (Brévignon, 1995). **65a,b**: *A. epione epione*, Espírito Santo, Brazil, BMNH; **c,d**: *A. epione agilla*, Colombia, BMNH (**HT**). **66a,b**: *A. syma*, Río Natal, S. of São Bento do Sul, Santa Catharina, Brazil, FSCA. **67a,b**: *A. cytherea cytherea*, Misahuallí, Río Napo, Napo, Ecuador, KWJH; **c**: *A. cytherea marcia*, Chajul, Río Lacuntun, Chiapas, Mexico, KWJH; **d**: *A. cytherea insularis*, Trinidad, BMNH (**ST**); **e,f**: *A. cytherea aea*, Espírito Santo, Brazil, BMNH (ST *herennia*); **g**: *A. cytherea daguana*, Yuma, Carabobo, Venezuela, MUSM; **h,i**: *A. cytherea daguana*, Paramba, Carchi, Ecuador, BMNH (LT *tarratia*); **j**: *A. cytherea daguana*, Río Dagua, Colombia, BMNH (**ST**); **k**: *A. cytherea olbia*, Bogotá, Colombia, BMNH (**ST**); **l,m**: *A. cytherea nahua*, Mérida, Venezuela, BMNH (**ST**).

PLATE 8: 68a,b: *A. viola viola*, Tijuca, Rio de Janeiro, Brazil, USNM; **c,d**: *A. viola pseudococala*, Pará, Brazil, BMNH. **69a,b**: *A. salmoneus salmoneus*, Venezuela, BMNH(T) (**ST**); **c,d**: *A. salmoneus colada*, Pimpilala, Napo, Ecuador, KWJH; **e,f**: *A. salmoneus emilia*, Muzo, Boyacá, Colombia, BMNH (**ST**); **g,h**: *A. salmoneus salmonides*, Chontales, Nicaragua, BMNH (**HT**). **70a,b**: *A. demialba*, ♀, Cachí, Cartago, Costa Rica, AME. **71a,b**: *A. epizygis epizygis*, Rio Grande, Rio Grande do Sul, Brazil, BMNH(T) (**PT**?); **c,d**: *A. epizygis epona*, Bahia, Brazil, BMNH (**ST**). **72a,b**: *A. fabricia*, Colombia, BMNH(T) (**ST**). **73a,b**: *A. capucinus capucinus*, original illustration of ST, "Ostindien" (Walch, 1775); **c,d**: *A. capucinus capucinus*, Amazons, BMNH (**NT**); **e,f**: *A. capucinus capucinus*, Peru, BMNH (ST *phylacides*); **g,h**: *A. capucinus velia*, Rio, Rio de Janeiro, Brazil, BMNH; **i,j**: *A. capucinus gutierrezi*, Hda. Pánaga, Táchira, Venezuela, BMNH (**PT**).

APPENDIX I cont.

PLATE 9: 74a,b: *A. barnesia barnesia*, Bolivia, USNM (**HT**); **c,d**: *A. barnesia leucas*, Presidio, Veracruz, Mexico, AME; **e,f**: *A. barnesia trinita*, Arima-Blanchisseuse rd., mi. 3.5, Trinidad, MJWC. **75a,b**: *A. diazi*, Catemaco, Veracruz, Mexico, AME. **76a,b**: *A. hesterbergi*, ridge east of Río Baboso, nr. Lita, Carchi, Ecuador, KWJH (**HT**). **77a,b**: *A. abia*, Rio Grande, Rio Grande do Sul, Brazil, BMNH(T) (ST *rufilia*). **78a,b**: *A. naxia naxia*, Satzayacu, Napo, Ecuador, KWJH; **c,d**: *A. naxia hieronica*, Tabaquite, Narieva District, Trinidad, BMNH (**ST**); **e,f**: *A. naxia oteroi*, Libertad Dolores, Barinas, Venezuela, MNHN (**PT**). **79a,b**: *A. heraclea heraclea*, Finca San Carlo, Napo, Ecuador, KWJH; **c,d**: *A. heraclea makkeda*, "Pará" [Venezuela], BMNH (**ST**); **e,f**: *A. heraclea antonii*, ♀, Libertad, Barinas, Venezuela, MNHN (**PT**). **80a,b**: *A. atlantica*, Petrópolis, Rio de Janeiro, Brazil, USNM (**PT**). **81a,b**: *A. malea malea*, Hda. Pánaga, Táchira, Venezuela, AFEN; **c,d**: *A. malea aethalia*, Apuya, km. 20 Tena-Puyo rd., Napo, Ecuador, KWJH.

PLATE 10: 81e,f: *A. malea goyama*, Paraguay, ZMHU; **g,h**: *A. malea ixia*, Los Morros de Macaira, Guárico, Venezuela, AFEN; **i,j**: *A. malea fundania*, Colombia, BMNH(T) (**ST**). **82a,b**: *A. boeotia boeotia*, Yungas, La Paz, Bolivia, BMNH (ST *fulica*); **c,d**: *A. boeotia oberthurii*, San Pedro Sula, Cortés, Honduras, BMNH; **e,f**: *A. boeotia fidicula*, ♀, Espírito Santo, Brazil, BMNH (**HT**). **83a,b**: *A. amazona*, São Paulo de Olivença, Amazonas, Brazil, ZMHU. **84a,b**: *A. ximena ximena*, Chichicorrumi, Río Napo, Napo, Ecuador, KWJH; **c,d**: *A. ximena mossi*, São Paulo de Olivença, Amazonas, Brazil, ZMHU. **85a,b**: *A. delinita delinita*, Shell, Río Pindo Grande, Pastaza, Ecuador, KWJH; **c,d**: *A. delinita utina*, San Pedro Sula, Cortés, Honduras, BMNH (**ST**, and PLT *uta*). **86a,b**: *A. pollina*, Bomboiza, Morona-Santiago, Ecuador, KWJH. **87a,b**: *A. erotia erotia*, Tarapoto, San Martín, Peru, BMNH (ST? *permagna*); **c,d**: *A. erotia erotia*, Bolivia, BMNH (ST *lerna*); **e,f**: *A. erotia caphira*, ♀, Venezuela, BMNH (ST?).

PLATE 11: 88a,b: *A. phylaca phylaca*, San Jerónimo, Tacana, Chiapas, Mexico, FSCA; **c,d**: *A. phylaca pseudaethalia*, Río Tanti, Pichincha, Ecuador, KWJH; **e,f**: *A. phylaca joffrei*, ♀, c. km. 30 Barinitas-Sto. Domingo, Barinas, Venezuela, AFEN. **89a,b**: *A. messana messana*, Colombia, ZMHU; **c,d**: *A. messana* ssp. nov.?, El Encanto, km. 16 Lita-San Lorenzo rd., Esmeraldas, Ecuador, KWJH; **e,f**: *A. messana delphicola*, Río Tiputini, Coca-Tiguino rd., Napo, Ecuador, KWJH. **90a,b**: *A. thesprotia*, Apuya, km. 20 Tena-Puyo rd., Napo, Ecuador, KWJH; **c,d**: *A. thesprotia* x *A. mesentina*, Iquitos, Loreto, Peru, ZMHU (HT *zunilaces*). **91a,b**: *A. mesentina*, Chichicorrumi, Río Napo, Napo, Ecuador, KWJH; **c,d**: *A. mesentina*, Bomboiza, Morona-Santiago, Ecuador, KWJH. **92a,b**: *A. lycorias lycorias*, Blumenau, Santa Catharina, Brazil, BMNH (ST *pseudagrias*); **c**: *A. lycorias lycorias*, Rio de Janeiro, Brazil, BMNH; **d**: *A. lycorias lycorias*, ♀, Espírito Santo, Brazil, BMNH(T) (ST *divina*); **e,f**: *A. lycorias lara*, km. 49 Tena-Loreto rd., Napo, Ecuador, KWJH; **g,h**: *A. lycorias melanippe*, Colombia, BMNH (**ST**); **i,j**: *A. lycorias melanthe*, Motagua Valley, Guatemala, BMNH (**ST**); **k,l**: *A. lycorias spruceana*, Chimborazo, Ecuador, BMNH (**ST**).

PLATE 12: 92m,n: *A. lycorias wallisii*, Frontino, Antioquia, Colombia, BMNH(T) (ST *hypsenor*). **93a,b**: *A. attica attica*, Colombia, BMNH (LT *carmela*); **c,d**: *A. attica hemileuca*, San Miguel, Río San Miguel, Esmeraldas, Ecuador, KWJH (**PT**). **94a,b**: *A. leuceria leuceria*, El Vigía, Veracruz, Mexico, AME; **c,d**: *A. leuceria juanna*, Alto Río Garrapatos, Valle del Cauca, Colombia, ESM. **95a,b**: *A. leucerioides*, Las Tuxtlas, Veracruz, Mexico, AME. **96a,b**: *A. erymanthis erymanthis*, nr. Cariblanco, Río Angel, Alajuela, Costa Rica, KWJH; **c,d**: *A. erymanthis esperanza*, ♀, Puerto Eligio, Oaxaca, Mexico, AME (**PT**, and PT *jacquelinae*); **e,f**: *A. erymanthis adstricta*, ♀, "Río Ayada vic., Ecuador" [Colombia], USNM; **g,h**: *A. erymanthis fortunata*, Bucay, Guayas, Ecuador, AMNH (**HT**). **97a,b**: *A. sichaeus*, Quebrada Chorillos, Zamora-Loja rd., Zamora-Chinchipe, Ecuador, KWJH. **98a,b**: *A. rothschildi*, ridge east of Río Baboso, nr. Lita, Carchi, Ecuador, KWJH. **99a,b**: *A. stilesiana*, Estación La Montura, Parque Nacional Braulio Carrillo, San José, Costa Rica, BMNH (**HT**). **100a,b**: *A. boreas boreas*, Shell, Río Pindo Grande, Pastaza, Ecuador, KWJH; **c,d**: *A. boreas kayei*, ♀, Potaro River, Mazaruni Potaro, Guyana, AME (**HT**).

PLATE 13: 101a,b: *A. cocala cocala*, Amazon, BMNH(T) (ST *urracina*); **c,d**: *A. cocala didia*, Espírito Santo, Brazil, BMNH(T) (**ST**); **e,f**: *A. cocala caninia*, São Paulo, Brazil, BMNH(T) (**ST**); **g,h**: *A. cocala lorzae*, no locality, BMNH (**LT**); **i,j**: *A. cocala orellanae*, ♀, Río Negro, Táchira, Venezuela, AFEN (**PT**). **102a,b**: *A. felderi*, Totontepec, Oaxaca, Mexico, AME. **103a,b**: *A. leucophthalma leucophthalma*, Turrialba, Cartago, Costa Rica, FSCA; **c,d**: *A. leucophthalma smalli*, Chepo, Distrito Las Minas, Cerro Montuoso, Herrera, Panama, USNM (**HT**); **e,f**: *A. leucophthalma irminella*, Río Chisinche, Pichincha, Ecuador, KWJH. **104a,b**: *A. irmina irmina*, ♀, Venezuela, BMNH (**ST**); **c,d**: *A. irmina tumida*, "Nauta", Peru, BMNH (**LT**); **e,f**: *A. irmina tumida* x *A. cocala cocala*, Río Huallaga, Peru, USNM. **105a,b**: *A. saundersii saundersii*, Río Machay, Tungurahua, Ecuador, KWJH; **c,d**: *A. saundersii helepecki*, Caranavi, Río Coroico, La Paz, Bolivia, KWJH; **e,f**: *A. saundersii frontina*, Frontino, Antioquia, Colombia, BMNH(T) (**ST**).

PLATE 14: 106a,b: *A. lamasi*, ridge east of Río Baboso, nr. Lita, Carchi, Ecuador, KWJH (**HT**). **107a,b**: *A. salus salus*, ♀, Valdivia, Antioquia, Colombia, BMB (**HT**); **c,d**: *A. salus emmeli*, ♀, km. 85 old Sto. Domingo rd., Pichincha, Ecuador, FSCA (**HT**); **e,f**: *A. salus* ssp. nov., Misantla, Veracruz, Mexico, USNM; **g,h**: *A. salus* ssp. nov., ♀, Cachí, Cartago, Costa Rica, USNM. **108a,b**: *A. shuara*, km. 25 Puyo-Tena rd., Río Llandia, Pastaza, Ecuador, KWJH. **109a,b**: *A. argentea*, Río Machay, Tungurahua, Ecuador, KWJH. **110a,b**: *A. coryneta*, Bolivia, BMNH(T) (**ST**). **111a,b**: *A. jordani*, Peru, BMNH(T) (**ST**); **c,d**: *A. jordani*, Apuya, km. 20 Tena-Puyo rd., Napo, Ecuador, KWJH. **112a,b**: *A. zina zina*, Colombia, BMNH (ST *leucacantha*); **c,d**: *A. zina lacina*, ♀, Chontales, Nicaragua, BMNH; **e,f**: *A. zina enope*, Colombia, BMNH (**HT**); **g,h**: *A. zina irma*, Bolivia, BMNH(T) (ST *nadja*); **i,j**: *A. zina inachia*, 3 mi. S.E. San Pedro de la Sierra, Sierra Nevada de Santa Marta, Colombia, BMNH; **k,l**: *A. zina desousae*, ♀, 13 km. S. de Sanare, Parque Nacional Yacambú, Lara, Venezuela, MALUZ (**HT**); **m,n**: *A. zina pyrczi*, Portochuelo Pass, Parque Nacional Henri Pittier, Aragua, Venezuela, AME (**PT**). **113a,b**: *A. milleri*, Catemaco, Veracruz, Mexico, AME.

PLATE 15: 114a,b: *A. justina justina*, New Grenada [Colombia], BMNH; **c,d**: *A. justina justina*, Hda. Santa Isabel, Río Pilatón, Pichincha, Ecuador, KWJH; **e,f**: *A. justina justinella*, Venezuela, BMNH (**HT**); **g,h**: *A. justina maira*, ♀, no locality, ZMHU (**ST**); **i,j**: *A. justina inesae*, km. 10 vía Sanare-Caspo, Lara, Venezuela, MIZA (**HT**); **k,l**: *A. justina valentina*, Bolivia, BMNH. **115a,b**: *A. olynthia*, Río Machay, Tungurahua, Ecuador, KWJH; **c,d**: *A. olynthia*, Peru, BMNH(T) (ST *theaena*). **116a,b**: *A. levona*, Río Anchicayá, Valle del Cauca, Colombia, AME (**HT**).

Taxon		Locality	Colln.	Taxon		Locality	Colln.	Taxon		Locality	Colln.
A abia	♂	Brazil (MG): Ser. do Espinhaço *(Fig.168a,b)	AME	***A. corcyra*** *corcyra*	♂	Colombia: Bogotá *	USNM	***A. gelania*** *gelania*	♀	Dominican Republic: 2 km S. Jarabacoa*	FSCA
	♂	Brazil (RJ): P.N. Itatiatia *(Fig. 168c)	USNM		♀	No locality *	AME	*arecosa*	♂	Puerto Rico: Toro Negro	AME
A. abyla	♂	Jamaica: Baron Hill *	AME	***A. coryneta***	♂	Peru: nr. Tingo María *	FSCA		♀	Puerto Rico: Guajateca	FSCA
	♀	Jamaica: Mt. Diablo *	AME		♂	Bolivia: nr. Puente Villa	FSCA		♀	Puerto Rico: Guajateca	FSCA
A. alala *completa*	♂	Venezuela: nr. Mérida	KWJH		♀	Bolivia: Mapiri *	BMNH	***A. heraclea*** *heraclea*	♂	Panama: Farfán	USNM
negra	♂	Ecuador (E): Río Zuñac *	KWJH	***A. cytherea*** *cytherea*	♂	Ecuador (E): Misahuallí	KWJH		♂	Peru: Shintuya	AME
	♀	Ecuador (E): La Mascota *	AME		♀	Ecuador (E): Santiago	KWJH		♂	Brazil (Ro): Rancho Grande *	KWJH
A. amazona	♂	Brazil (Am): São Paulo de Olivença *	ZMHU	*daguana*	♂	Ecuador (W): Río Tanti, nr. Alluriquín*	KWJH		♀	Colombia *	BMNH
	♂	Brazil (Ro): Rancho Grande	KWJH		♀	Colombia (W): Rio Claro *	FSCA	*makkeda*	♂	Venezuela: Los Angeles del Tucuco *	USNM
	♀	Guyana: Essequibo River *	BMNH	*nahua*	♂	No locality *	USNM	***A. hesterbergi***	♂	Costa Rica: Moravia de Chirripo	RHest.
A. argentea	♂	Ecuador: Río Machay, HT *	KWJH	***A. delinita*** *delinita*	♂	Ecuador (E): Río Llandia	KWJH		♂	Ecuador (W): nr. Lita, HT *	KWJH
A. aricia *aricia*	♂	Bolivia: Unduavi	BMNH		♂	Venezuela *	FSCA	***A. hyas*** *hyas*	♂	Brazil (Pn): Fernandes Pinheiro	AME
serenita	♂	Peru: Huancabamba	BMNH	*utina*	♂	Guatemala: Volcán Santa María *	USNM		♀	Brazil (SC): 1 km S. São Bento do Sul *	FSCA
	♂	Peru: Tingo María *	AME	***A. demialba***	♂	Costa Rica: Las Cóncavas *	AME	*viracocha*	♂	Bolivia	BMNH
A. attica *attica*	♂	Ecuador (E): Apuya	KWJH		♀	Costa Rica: Cachí *	AME	*hewitsoni*	♂	Ecuador (E): Pimpilala, HT *	KWJH
	♀	Panama: Caña	USNM	***A. diazi***	♂	Mexico: Catemaco *	AME		♂	Ecuador (E): Pimpilala	KWJH
hemileuca	♂	Colombia (W): Juntas	BMNH		♂	Mexico: Catemaco *	AME		♂	Ecuador (E): Río Llandia	KWJH
	♂	Ecuador (W): San Miguel *	KWJH		♀	Mexico: Dos Amates *	AME	***A. iphicleola*** *gortyna*	♂	Venezuela: via Chorro del Indio	AFEN
A. barnesia *barnesia*	♂	Peru: Contamaná	BMNH	***A. diocles*** *creton*	♂	Mexico: 12 km S. Las Casas *	FSCA		♂	Venezuela: Hda. Pánaga	AFEN
leucas	♂	No locality	FSCA		♀	Mexico: vic. La Encarnación *	AME	*iphicleola*	♂	Mexico: Pisté	KWJH
	♂	Panama: Ft. Kobbe *	USNM	*diocles*	♂	Panama: Volcán Baru	FSCA		♂	Mexico: Pisté	FSCA
	♂	Ecuador (W): nr. Lita	KWJH		♂	Panama: Volcán Baru *	USNM		♂	Mexico: Pisté	FSCA
	♀	Guatemala: Sta. Rosa Guazacapán	AME	***A. donysa*** *albifilum*	♂	El Salvador: Cerro Miramundo *	AME		♂	Mexico: Escarcega	FSCA
	♀	No locality *	BMNH	*donysa*	♂	Mexico: 12 km S. Las Casas *	FSCA		♂	Mexico: Chajul	KWJH
A. basiloides	♂	Mexico: Gómez Farías	FSCA		♂	Mexico: Zimapán	AME		♀	Mexico: X-Can	FSCA
	♂	Panama: Madden R. F.	FSCA		♀	Mexico: 5 mi. N.W. Zimapán *	AME		♀	Mexico: Pisté *	FSCA
	♂	Ecuador (W): La Punta, nr. San Lorenzo *	KWJH	ssp. nov.?	♂	Guatemala: Polochic valley	BMNH		♀	Costa Rica: Santa Rosa	KWJH
	♀	Mexico: Gómez Farías *	FSCA	***A. epione*** *agilla*	♂	Bolivia: Río Quiquibby *	KWJH	*leucates*	♂	Venezuela: Pozo Diablo, Maracay	FSCA
	♀	Panama: Ft. Sherman	FSCA		♀	Ecuador (E): Río Abanico *	KWJH	*thessalita*	♂	Ecuador (E): Las Minas	KWJH
A. boeotia *boeotia*	♂	Venezuela: Guamoto *	FSCA	*epione*	♂	Brazil (RJ): Petrópolis	BMNH		♂	Ecuador (E): Las Minas	KWJH
	♂	Ecuador (E): Hda. Moravia, nr. Shell	KWJH	***A. epizygis*** *epizygis*	♂	Brazil (SC): Trombudo Alto *	AME		♂	Ecuador (E): Las Minas	KWJH
	♂	Ecuador (E): Las Minas de Misahuallí	KWJH		♀	Paraguay *	BMNH		♂	Ecuador (E): Finca San Carlo, HT *	KWJH
	♂	Ecuador (W): Reserva Maquipucuna	KWJH	***A. e.*** *erotia* (f. erotia)	♂	Ecuador (E): Bomboiza *	KWJH	***A. iphiclus*** *estrecha*	♂	Ecuador (W): Río Tanti	KWJH
	♂	Peru: Tingo María	FSCA	(f. lerna)	♂	Ecuador (E): Bomboiza *	KWJH		♀	Ecuador (W): El Durango	KWJH
	♀	Colombia *	BMNH	(f. lerna)	♀	Panama: Las Cumbres *	FSCA		♂	Ecuador *	BMNH
oberthurii	♂	Mexico: Misantla *	USNM	(f. erotia)	♀	French Guiana: Maroni	AME	*iphiclus*	♂	Mexico: 1 km N. Tamazunchale	FSCA
A. boreas *boreas*	♂	Ecuador (E): Río Llandia	KWJH	***A. erymanthis***					♂	Mexico: Tacaná	FSCA
	♂	Peru: Tingo María *	FSCA	*erymanthis*	♂	Costa Rica: Río Angel *	KWJH		♂	Costa Rica: Río Tarcoles	KWJH
	♀	Colombia: Bogotá	AME		♀	Costa Rica: Carillo *	BMNH		♂	Costa Rica: Santa Rosa	KWJH
	♀	Colombia (E): Villavicencio *	BMNH	*fortunata*, HT	♂	Ecuador (W): Bucay	AMNH		♂	Ecuador (E): Chichicorrumi	KWJH
	♀	Ecuador (E): Pimpilala	KWJH	***A. ethelda*** *ethelda*	♂	Ecuador (W): Tinalandia, nr. Alluriquín	KWJH		♂	Ecuador (E)	KWJH
	♀	Ecuador (E): Pimpilala	KWJH	*sophax*	♂	Costa Rica: Río Sucio *	KWJH		♂	Brazil (Ro): Sta. Cruz da Serra	FSCA
A. bredowii *bredowii*	♂	Mexico: Xucumanatlán	FSCA		♀	Costa Rica: nr. Cariblanco *	KWJH		♂	Brazil (Ro): Rancho Grande	FSCA
californica	♂	USA (Cal): Jerseydale *	BMNH	***A. fabricia***	♂	Ecuador (E): Chichicorrumi	KWJH		♀	Panama: Las Cumbres *	FSCA
	♀	USA (Cal): Jerseydale *	FSCA		♂	Peru: 30 km S.W. Pto. Maldonado *	USNM	***A. irmina*** *tumida*	♂	Ecuador (E): Río Machay *	KWJH
eulalia	♂	USA (Tex): 1 mi. W. Ft. Davis *	FSCA		♀	Ecuador (W): El Durango *	KWJH		♂	Peru: Tingo María	FSCA
	♂	Mexico: Brooks Ranch	FSCA	***A. falcipennis***	♂	Brazil (MG): Nova Lima *(Fig. 148a,b)	AME		♀	Ecuador (E): Río Abanico *	KWJH
	♀	Mexico: Puerto de Zorro	AME		♂	Brazil (Pa): Castro * (Fig. 148c)	USNM	***A. jordani***	♂	Ecuador (E): Apuya * (Fig. 202a,b)	KWJH
A. calliphane	♂	Paraguay: Col. Independencia *	FSCA		♀	Brazil (SC): São Bento do Sul *	AME		♂	Ecuador (E): Apuya	KWJH
	♂	Paraguay	AME	***A. felderi***	♂	Mexico: Chiltepec *	AME		♂	Ecuador (E): Río Llandia	KWJH
	♀	Brazil: Rio Vermelho *	BMNH		♀	Mexico: Catemaco *	FSCA	(melanic f.)	♂	Ecuador (E): Río Llandia	KWJH
A. capucinus			AMNH	***A. fessonia*** *cestus*	♂	Venezuela: Caracas	USNM		♂	Peru: Tingo María * (Fig. 202c)	FSCA
capucinus	♂	Ecuador (E): Apuya *	KWJH	*fessonia*	♂	USA (Tex): Madero	KWJH		♀	Peru: Tambopata *	FSCA
	♂	Ecuador (E): Río Tiputini	KWJH		♂	Mexico: Pisté	FSCA	***A. justina*** *justina*	♂	Colombia/Ecuador *	FSCA
	♀	Venezuela: km 1 S. El Dorado *	KWJH		♂	Costa Rica: Santa Rosa *	KWJH	*valentina*	♂	Ecuador (E): Río Topo *	KWJH
	♀	French Guiana: St. Laurent du Maroni	FSCA		♀	Mexico: 3 mi. N. Ciudad Valles *	FSCA		♂	Ecuador (E): km 49 Tena-Loreto rd.	KWJH
velia	♂	Brazil (ES): Linhares	BMNH		♀	Mexico: Gómez Farías	FSCA	***A. lamasi***	♂	Ecuador (W): nr. Lita, HT *	KWJH
A. cocala *cocala*	♂	Ecuador (E): Río Llandia *	AME		♀	Costa Rica: Santa Rosa	KWJH		♂	Colombia (W): Cali	MUSM
lorzae	♂	Ecuador (W): Río Tanti, nr. Alluriquín	KWJH	*lapitha*	♂	Dominican Rep.: 9 km E. Vallejuelo*	AME		♀	Ecuador(W): km 16 Lita-Alto Tambo rd.*	KWJH
	♀	Costa Rica: Río Angel *	KWJH	***A. gavina***	♂	Brazil (SP): São Paulo *	BMNH	***A. leuceria*** *leuceria*	♂	Mexico: nr. Puerto Elígio *	KWJH
A. corcyra *aretina*	♂	Ecuador (E): Río Machay *	KWJH		♂	Brazil (SC): Cauna	AMNH		♀	Mexico: La Esperanza *	FSCA
collina	♂	Ecuador (W): Río Las Palmeras	KWJH		♀	No locality *	AME		♀	Mexico: El Vigía	AME
	♂	Ecuador (W): Río Las Palmeras	KWJH	***A. gelania*** *gelania*	♂	Dominican Republic: Pico Duarte *	KWJH	*juanna*	♀	Ecuador (W): Res. Maquipucuna	KWJH

Taxon		Locality	Colln.
A. leucerioides	♂	Mexico: El Vigía *	AME
	♀	Mexico: El Vigía *	AME
A. leucophthalma			
leucophthalma	♂	Costa Rica: nr. Cariblanco *	KWJH
	♀	Costa Rica: nr. Cariblanco	KWJH
	♀	Costa Rica: nr. Cariblanco *	KWJH
irminella	♂	Ecuador (W): Río Tanti	KWJH
smalli	♂	Panama: Cerro Montuoso, HT *	USNM
A. levona	♂	Ecuador (W): nr. Lita *	KWJH
A. lycorias *lara*	♂	Ecuador (E): Río Topo	KWJH
	♂	Bolivia: Yolosa	KWJH
lycorias	♂	No locality	BMNH
	♀	Brazil (SC): Rio Natal *	FSCA
melanthe	♂	Mexico: nr. Sontecomapan *	KWJH
	♀	Mexico: nr. Sontecomapan	KWJH
spruceana	♂	Ecuador(W): Tinalandia, nr. Alluriquín	KWJH
A. malea *aethalia*	♂	Ecuador (E): Satzayacu *	KWJH
	♂	Brazil (Ro): Rancho Grande	FSCA
	♀	Colombia (W): "Muzo" [error] *	AME
fundania	♂	Mexico: San Jerónimo *	FSCA
	♂	Colombia: Victoria	USNM
goyama	♂	Brazil (SC): São Paulo	FSCA
ixia	♀	Venezuela: Pozo del Diablo	AME
A. melona *deborah*	♂	Colombia	BMNH
leucocoma	♂	Venezuela: Gavilán, nr. Pto. Ayacucho	AFEN
	♂	Ecuador (E): Chichicorrumi *	KWJH
	♀	Ecuador (E): Finca San Carlo	KWJH
	♀	French Guiana: Lac des Americains *	FSCA
melona	♂	No locality	BMNH
pseudarete	♂	Brazil (Ba): Morro do Chapéu	USNM
A. mesentina	♂	Bolivia: Caranavi	KWJH
	♂	Ecuador (E): Las Minas de Misahuallí*	KWJH
	♀	Ecuador (E): Chichicorrumi *	KWJH
	♂	Mexico: Brooks Ranch	AME
	♀	Mexico: Puerto de Zorro	FSCA
A. messana *messana*	♂	Panama: Farfán	USNM
	♂	Panama: Bugaba	BMNH
	♂	Colombia (W): Muzo	AME
delphicola	♂	Ecuador (E): Chichicorrumi	KWJH
	♂	Ecuador (E): Apuya	KWJH
	♂	Ecuador (E): Apuya *	KWJH
	♂	Brazil (Ro): Cacaulândia	USNM
	♀	Venezuela: Río Acure	AME
A. milleri	♂	Mexico: El Vigía *	AME
	♀	Mexico: Sontecomapan *	AME
A. mythra	♂	Brazil (Pn): São Luiz do Puruna *	KWJH
	♂	Brazil (Pn): Curitiba	FSCA
	♀	Brazil (SC): São Bento do Sul *	AME
	♀	Brazil (RS): Rio Grande do Sul	BMNH
A. naxia *naxia*	♂	Panama: Madden Dam	FSCA
	♂	Costa Rica: Río Tarcoles *	KWJH
	♂	Ecuador (E): Chichicorrumi	KWJH
	♀	Mexico: nr. X-Can *	FSCA
A. nea *nea*	♂	Ecuador (E): Chichicorrumi *	KWJH
	♂	French Guiana: Maroni	BMNH
	♀	Brazil (Pa): Óbidos *	AME
sentia	♂	Mexico: Chimalapa *	AME
A. olynthia	♂	Ecuador (E): Río Machay *	KWJH
	♂	Ecuador (E): Río Machay	KWJH
	♂	Ecuador (E): Río Machay	KWJH
	♂	Ecuador (W): Santa Rosa	KWJH
	♂	No locality	BMNH

Taxon		Locality	Colln.
A. paraena *lecromi*	♂	Colombia: Bogotá, HT	USNM
massilia	♀	Mexico: Chajul *	KWJH
paraena	♂	Ecuador (E): Bomboiza *	KWJH
	♂	Brazil (DF): Parque do Gama	USNM
A. paroeca paroeca	♂	Mexico: Apulco	AME
	♂	Panama: Volcán Baru *	USNM
	♀	Mexico: Pichucalco *	AME
A. phylaca *phylaca*	♂	Mexico: Pto. Vallarta	USNM
	♂	Mexico: Pto. Vallarta	USNM
	♂	Mexico: Guerrero	USNM
	♂	Mexico: Presidio	AME
pseudaethalia	♂	Panama: Gatún	USNM
	♂	Ecuador (W): Río Tanti, nr. Alluriquín *	KWJH
	♀	Ecuador (W): La Punta, Lita-S. Lorenzo rd. *	KWJH
A. pithys	♂	Mexico: San Carlos * (Fig. 138a,b)	AME
	♂	Guatemala: Volcán Santa María * (Fig. 138c)	USNM
	♀	Mexico: El Vigía *	AME
A. plesaure *plesaure*	♂	Brazil (SC): Santa Catharina	USNM
phliassa	♂	Ecuador (E): Bomboiza	KWJH
	♂	Ecuador (E): Chichicorrumi *	KWJH
	♀	Ecuador (E): Río Chico, nr. Puyo	FSCA
symona	♀	Trinidad: Simla, N. of Arima *	FSCA
A. pollina	♂	Ecuador (E): Bomboiza *	KWJH
	♂	Ecuador (E): Chichicorrumi	KWJH
	♀	Brazil (Am): Tefé *	BMNH
A. poltius	♂	Brazil (RJ): Rio	BMNH
	♂	Brazil (Pn): São Luiz do Puruna *	FSCA
	♂	Brazil (RJ): Petrópolis	AME
	♀	Brazil (SC): Rio Vermelho *	FSCA
A. radiata *aiellae*	♂	Ecuador (W): nr. Lita, HT	KWJH
	♀	Panama: Piña, Colón *	FSCA
explicator	♂	Ecuador (E): Finca San Carlo, HT *	KWJH
radiata	♂	Brazil (RJ): Rio	BMNH
A. rothschildi	♂	Ecuador (W): nr. Lita *	KWJH
	♀	Colombia, PT *pallida* *	BMNH
A. salmoneus *colada*	♂	Bolivia: Río Songo	ZMHU
emilia	♂	Ecuador (W): La Punta, Lita-S. Lorenzo rd. *	KWJH
salmonides	♂	Costa Rica: nr. Golfito	KWJH
	♀	Panama: Piña, Colón *	FSCA
A. salus *salus*	♂	"Chiriquí" *	MCZ
emmeli	♀	Ecuador (W): Quito-Sto. Domingo rd., HT *	FSCA
ssp. nov.	♂	Mexico: San Felipe *	AME
	♂	Mexico: Misantla	USNM
	♀	Costa Rica: La Suiza	KWJH
A. saundersii			
helepecki	♂	Bolivia: Caranavi	KWJH
saundersii	♂	Ecuador (E): Río Machay *	KWJH
	♀	Peru: Chachapoyas *	BMNH
A. seriphia *godmani*	♂	Ecuador (W): nr. Lita *	KWJH
	♀	Ecuador (W): Tandapi *	KWJH
pione	♂	Venezuela: nr. Mérida	KWJH
A. serpa *celerio*	♂	Mexico: Est. Biol. Los Tuxtlas	KWJH
	♀	Mexico: nr. Sontecomapan	KWJH
	♀	Mexico: nr. Sontecomapan	KWJH
duiliae	♂	Ecuador (W): nr. San Miguel de los Bancos	KWJH
serpa	♂	Brazil (SC): Rio Natal *	FSCA
	♀	Brazil (SC): Villa Nova *	FSCA
A. shuara	♂	Ecuador (E): Río Llandia, HT * (Fig. 199a,b)	KWJH
	♂	Ecuador (E): Río Zuñac * (Fig. 199c)	KWJH
	♂	Ecuador (E): Río Zuñac * (Fig. 199d)	KWJH
	♀	Ecuador (E): Río Miriumi *	KWJH

Taxon		Locality	Colln.
A. sichaeus	♂	Ecuador (E): Hda. Moravia, nr. Shell *	KWJH
	♂	Ecuador (E): Qbda. Chorillos, nr. Zamora	KWJH
	♂	Colombia *	USNM
A. stilesiana	♂	Costa Rica: Est. La Montura, HT *	BMNH
	♀	Costa Rica: Est. La Montura, PT *	BMNH
A. syma	♂	Brazil (SC): Rio Vermelho *	KWJH
	♂	Brazil (Pn): Curitiba	FSCA
	♀	Brazil (SC): Rio Vermelho *	FSCA
	♀	Brazil (SC): São Bento do Sul	AME
A. thesprotia	♂	Ecuador (E): Apuya * (Fig. 181a,b)	KWJH
	♂	Ecuador (E): Apuya	KWJH
	♂	Ecuador (E): km 21 Coca-Loreto rd.	KWJH
	♂	Ecuador (E): Chichicorrumi * (Fig. 181c)	KWJH
	♂	Peru: Iquitos, HT *zunilaces*	ZMHU
	♂	Brazil (Ba): Bahia	BMNH
A. thessalia *thessalia*	♂	Ecuador (E): Shell	KWJH
	♂	Ecuador (E): Río Cholo Hay	KWJH
	♂	Peru	FSCA
	♂	Bolivia: Yolosa	KWJH
	♂	Bolivia: Caranavi	KWJH
indefecta	♂	"Puihal"	FSCA
	♀	Brazil (Pn): Fernandes Pinheiro	FSCA
	♀	Brazil (Pn): Fernandes Pinheiro *	AME
	♀	Uruguay: La Soledad	BMNH
cesilas	♂	Argentina: Urundel *	AME
A. thoasa *gerona*	♂	Brazil (MG): Belo Horizonte	USNM
	♀	Brazil (MaG): Buriti *	AME
manilia	♂	Peru: Tingo María *	AME
	♂	Ecuador (E): Río Shandia	KWJH
thoasa	♀	Brazil	BMNH
A. tracta	♂	Costa Rica: Cerro de la Muerte	FSCA
	♂	Nicaragua: Managua *	USNM
	♀	Panama: Potrerillos *	FSCA
A. viola			
pseudococala	♂	Brazil (Am): São Paulo de Olivença *	ZMHU
	♀	French Guiana: Maroni *	AME
viola	♂	Brazil (RJ): Rio Janeiro	BMNH
A. ximena *mossi*	♂	Peru/Brazil	ZMHU
	♂	Peru: Río Huallaga *	USNM
	♀	Brazil (Pa): Pará, HT *	BMNH
ximena	♂	Peru: Tingo María *	AME
A. zea	♂	Brazil (SC): Trombudo Alto	AME
	♂	Brazil (Pn) *	AMNH
	♀	Brazil (Pn): União da Victória *	AME
A. zina *irma*	♂	Bolivia: Río Quiquibby *	KWJH
lacina	♂	Panama: Byuco River	USNM
pyrczi	♂	Venezuela *	FSCA
	♂	Venezuela: Rancho Grande	USNM
	♀	Venezuela: Rancho Grande	FSCA
	♀	Venezuela: Rancho Grande	AME
zina	♂	Ecuador (W): Río Tanti, nr. Alluriquín	KWJH
	♂	Ecuador (W): Río Tanti, nr. Alluriquín *	KWJH
	♀	Ecuador (W): Tinalandia, nr. Alluriquín *	KWJH

Abbreviations: "*" following locality indicates specimen figured in Figs. 124-280. E=east of Andes; W=west of Andes. States as follows: Am: Amazonas; MaG: Mato Grosso; MG: Minas Gerais; Pa: Pará; Pn: Paraná; RJ: Rio de Janeiro; RS: Rio Grande do Sul; SC: Santa Catharina. Tex: Texas; Cal: California.

Species:	Subspecies:	Rec.†	Host genus:	Host species:	Host family:	Locality:	Source:	Reported as:
bredowii	*californica*		*Quercus*	spp.	Fagaceae	USA: Cal	Dyar (1891)	*Heterochroa californica*
			Quercus	*chrysolepis*	Fagaceae	USA: Cal	Comstock (1927); Tietz (1972), Howe (1975); Orsak (1977), Dornfeld (1980), Christensen (1981), Scott (1986)	*Heterochroa californica*
			Quercus	*chrysolepis*	Fagaceae	Mexico	Brown *et al*. (1992)	
			Quercus	spp.	Fagaceae	USA: Cal	Comstock (1927); Ehrlich & Ehrlich (1961); Ackery (1988)	
			Quercus	*agrifolia*	Fagaceae	Mexico	Brown *et al*. (1992)	
			Quercus	*douglasii*	Fagaceae	USA	Tietz (1972); Scott (1986)	*Heterochroa b. californica*
			Quercus	*kelloggii*	Fagaceae	USA	Tietz (1972); Scott (1986)	*Heterochroa b. californica*
			Quercus	*virginiana*	Fagaceae	USA	Tietz (1972)	*Heterochroa b. californica*
	eulalia		*Quercus*	sp.	Fagaceae	USA	Ferris & Brown (1981)	
			Quercus	sp.	Fagaceae	Mexico	Beutelspacher (1980)	
			Quercus	*arizonica*	Fagaceae	USA: Ariz	Bailowitz & Brock (1991)	
			Quercus	*emoryi*	Fagaceae	USA: Ariz	N. McFarland (*In*: Bailowitz & Brock, 1991)	
*			*Quercus*	*gambelii*	Fagaceae	USA: Ut	Harry (1994)	
	californica/eulalia		*Quercus*	*vaccinifolia*	Fagaceae	USA	Scott (1986)	*Limenitis bredowii*
			Quercus	*gambelii*	Fagaceae	USA	Scott (1986)	*Limenitis bredowii*
			Quercus	*agrifolia*	Fagaceae	USA	Scott (1986)	*Limenitis bredowii*
			Quercus	*wislizeni*	Fagaceae	USA	Scott (1986)	*Limenitis bredowii*
			Quercus	*turbinella*	Fagaceae	USA	Scott (1986)	*Limenitis bredowii*
			Castanopsis	*chrysophylla*	Fagaceae	USA	Scott (1986)	*Limenitis bredowii*
****paraena***	*paraena*		*Miconia*	*minutiflora*, + 2 spp.	Melastomataceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*serpa*
			Qualea	*multiflora*	Vochysiaceae	Brazil: DF	Diniz & Morais (1997)	
*	*lecromi/massilia*	1	*Combretum*	*decandrum*	Combretaceae	Panama	Aiello (1984); Neild (1996)	nr. *paraena*
****radiata***	*aiellae*		*Cespedezia*	*spathulata*	Ochnaceae	Colombia	Constantino (1998)	*serpa*
serpa	*serpa*		*Melastoma*	sp.	Melastomataceae	Brazil	Hoffmann (1936, 1937b)	*serpa*
(?)			Miconieae	-	Melastomataceae	Brazil: SC	Müller (1886); Aiello (1984), Ackery (1988)	*serpa*
(?)			*Miconia*	sp.	Melastomataceae	Brazil	Brown (1992)	*serpa*
(?)			*Miconia*	sp.	Melastomataceae	Brazil: SP	A. Freitas (pers. comm.)	
(?)			?*Trembleya*	sp.	Melastomataceae	Brazil: SP	A. Freitas (pers. comm.)	
(?)			-	-	Melastomataceae	Brazil: SP	A. Freitas (pers. comm.)	
*	*diadochus*		*Isertia*	*longiflora*	Rubiaceae	Brazil	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*paraena*
*			*Remijia*	*amazonica*	Rubiaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*paraena*
*	*celerio*	2	*Ochroma*	*pyramidale*	Bombacaceae	Panama	Coley & Aiello (*In*: Aiello, 1984); DeVries (1987), Ackery (1988), Neild (1996)	*celerio*
*			*Urera*	sp.	Urticaceae	Costa Rica	DeVries (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988), Neild (1996)	*celerio*
*			*Myriocarpa*	*longipes*	Urticaceae	Costa Rica	Specimen data in the PJD; DeVries (1987), Neild (1996)	*celerio*
			Heliocarpus	*americanus*	Tiliaceae	Venezuela	Orellana (*In*: Neild, 1996)	*celerio celerio*
*			-	-	Melastomataceae	El Salvador	Specimen data in the AME collected by S. Steinhauser	
(?)			*Conostegia*	*xalapensis*	Melastomataceae	Mexico	Comstock & Vázquez (1961); Aiello (1984), Ackery (1988)	*celerio*
(?)			*Miconia*	sp.	Melastomataceae	Mexico	Comstock & Vázquez (1961); Aiello (1984)	*celerio*
(?)			*Miconia*	*argentea*	Melastomataceae	Costa Rica	Mallet (*In*: Aiello, 1984); DeVries (1986), Ackery (1988)	*celerio*
(?)		4	*Miconia*	*argentea*	Melastomataceae	Costa Rica	Janzen & Hallwachs (2000)	*celerio*
(?)			*Miconia*	*laevigata*	Melastomataceae	El Salvador	A. Muyshondt (pers. comm.)	
(?)		1	*Cecropia*	*peltata*	Moraceae	Panama	Coley (*In*: Aiello, 1984); Ackery (1988), Neild (1996)	*celerio*
seriphia	*pione*		*Cavendishia*	sp.	Ericaceae	Venezuela	A. Orellana (pers. comm.)	
hyas	*hyas*		*Casearia*	*sylvestris*	Flacourtiaceae	Uruguay	Biezanko *et al.* (1966)	
			Ilex	*paraguariensis*	Aquifoliaceae	Brazil: SP	Silva *et al.* (1968); Aiello (1984), Ackery (1988), Brown (1992)	*serpa hyas*

Species:	Subspecies:	Rec.†	Host genus:	Host species:	Host family:	Locality:	Source:	Reported as:
***alala**	*completa*		*Viburnum*	*tinoides* var. *venezuelense*	Caprifoliaceae	Venezuela	Otero & Aiello (1996)	*alala*
***tracta**		1	*Rondeletia*	sp.	Rubiaceae	Costa Rica	Haber, specimen in the PJD (reported as "Rubiaceae" *In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988)	
*		1	-	-	Rubiaceae	Costa Rica	Chacón (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988)	
		many	*Viburnum*	*costaricanum*	Caprifoliaceae	Costa Rica	Haber (pers. comm.; *In*: Janzen & Hallwachs, 2000)	
pithys			-	shrub	Caprifoliaceae	El Salvador	A. Muyshondt (pers. comm.)	
donysa	*albifilum*		-	shrub	Caprifoliaceae	El Salvador	A. Muyshondt (pers. comm.)	
fessonia	*fessonia*	1	*Randia*	*echinocarpa*	Rubiaceae	Costa Rica	Janzen (*In*: Aiello, 1984); DeVries (1986), Ackery (1988), Neild (1996)	
		1	*Randia*	*karstenii*	Rubiaceae	Costa Rica	Janzen (*In*: Aiello, 1984); DeVries (1986, 1987); Ackery (1988), Neild (1996)	
			Randia	sp.	Rubiaceae	El Salvador	Scott (1986)	*Limenitis fessonia*
			Randia	*armata*	Rubiaceae	Costa Rica	Dyer (1997)	
		9	*Randia*	*aculeata*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	
(?)			*Randia*	*aculeata*	Rubiaceae	Costa Rica	R. Boender (pers. comm.)	
			Randia	*aculeata*	Rubiaceae	El Salvador	A. Muyshondt (pers. comm.)	
		10	*Randia*	*monantha*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	
		15	*Randia*	*rhagocarpa*	Rubiaceae	USA: Tex	Specimen data in the FSCA, collected by R. W. Bosese	
?? probably *Doxocopa* sp.			*Celtis*	*lindheimeri*	Ulmaceae	USA: Tex	Scott (1986); Neck (1996)	*Limenitis fessonia*
?? probably *Doxocopa* sp.			*Celtis*	*laevigata*	Ulmaceae	USA: Tex	Neck (1996)	
(?) ***calliphane***			*Ilex*	*paraguariensis*	Aquifoliaceae	Argentina	Jørgensen (*In*: Hayward, 1940)	
(?)			*Vitex*	*montevidensis*	Verbenaceae	Brazil	Silva *et al.* (1968); Aiello (1984), Ackery (1987)	
(?)			*Vitex*	sp.	Verbenaceae	Brazil:RJ,MGe	Zikán & Zikán (1968); Brown (1992)	
mythra			*Bathysa*	nr. *barbinervis*	Rubiaceae	Brazil: SC	Müller (1886); Aiello (1984), Ackery (1988), Brown (1992)	
			Bathysa	*meridionalis*	Rubiaceae	Brazil: SP	A. Freitas (pers. comm.)	
			Rubus	sp.	Rosaceae	?	Fountaine, unpubl. watercolours (*In*: Ackery, 1988)	
			Mutisia	*coccinea*	Asteraceae	Brazil: SP	A. Freitas (pers. comm.)	
basiloides		7	*Alibertia*	*edulis*	Rubiaceae	Panama	Aiello (1984); Neild (1996)	
		37	*Alibertia*	*edulis*	Rubiaceae	Costa Rica	Janzen (*In*: DeVries, 1986); Ackery (1988), Janzen & Hallwachs (2000)	
		5	*Amaioua*	*corymbosa*	Rubiaceae	Panama	Aiello (1984); Ackery (1988), Neild (1996)	
		3	*Bertiera*	*guianensis*	Rubiaceae	Panama	Aiello (1984); Ackery (1988), Neild (1996)	
			Ixora	*nicaraguensis*	Rubiaceae	Panama	Mallet (*In*: Aiello, 1984)	
*			*Ixora*	*nicaraguensis*	Rubiaceae	Costa Rica	Marquis (*In*: DeVries, 1986, 1987); Ackery (1988), Neild (1996)	
		20	*Ixora*	*floribunda*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	
*			*Faramea*	sp.	Rubiaceae	Costa Rica	DeVries (1987)	
		73	*Lindenia*	*rivalis*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	
		5	*Randia*	*aculeata*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	
plesaure	*plesaure*		*Bathysa*?	sp.	Rubiaceae	Brazil: SC	Müller (1886); Aiello (1984), Ackery (1988), Brown (1992), Neild (1996)	
			-	-	Rubiaceae	Brazil: SC	Müller (1886)	
			-	-	Rubiaceae	Brazil: SP	A. Freitas (pers. comm.)	
*	*phliassa*		*Alibertia*	*edulis*	Rubiaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*phliassa*
*			*Bertiera*	*guianensis*	Rubiaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*phliassa*
thoasa	*gerona*		*Ilex*	*paraguariensis*	Aquifoliaceae	Argentina	Hayward (1969)	
? ***thessalia***	*indefecta*		*Ilex*	*paraguariensis*	Aquifoliaceae	Paraguay	Jorgensen (1922); Podtiaguin (1944), Aiello (1984, 1991), Ackery (1988)	*calliphiclea*
***iphiclus**	*iphiclus*		*Uncaria*	*guianensis*	Rubiaceae	Brazil: Pa	Moss (1933: as *Ourouparia*); Aiello (1984), Ackery (1988), Neild (1996)	*iphicla*
	ephesa		*Bathysa*	sp.	Rubiaceae	Brazil	Silva *et al.* (1968); Aiello (1984), Ackery (1988)	*ephicla ephesa*
			Bathysa	*meridionalis*	Rubiaceae	Brazil: SP	A. Freitas (pers. comm.)	

Species:	Subspecies:	Rec.†	Host genus:	Host species:	Host family:	Locality:	Source:	Reported as:
iphicleola	*iphimedia*		*Calycophyllum*	sp.	Rubiaceae	Cuba	Dewitz (1879); Aiello (1984)	*Heterochroa basilea*
			Calycophyllum	*candidissimum*	Rubiaceae	Cuba	Riley (1975); Alayo & Hernández (1981), Aiello (1984), Ackery (1988), Neild (1996)	*iphicla*
			Calycophyllum	*candidissimum*	Rubiaceae	Cuba	Bruner *et al.* (1975)	*iphicla*
			Calcyophyllum	*candidissimum*	Rubiaceae	Cuba	Smith *et al.* (1994)	*iphicla*
iphiclus/iphicleola			*Schoenleinia*	sp.	Rubiaceae	?	Müller (1878)	*basilea*
			Calycophyllum	sp.	Rubiaceae	Brazil	Müller (1886); Ackery (1988)	*basilea*
		2	*Calycophyllum*	*candidissimum*	Rubiaceae	Panama	Aiello (1984); DeVries (1986), Neild (1996)	*iphicla*
		107	*Calycophyllum*	*candidissimum*	Rubiaceae	Costa Rica	Janzen (*In*: Aiello, 1984); DeVries (1986, 1987), Neild (1996), Janzen & Hallwachs (2000)	*iphicla iphicleola, iphiclus*
			Bathysa	nr. *barbinervis*	Rubiaceae	Brazil: SC	Müller (1886); Aiello (1984), Brown (1992), Neild (1996)	*iphicla*
		2	*Uncaria*	*tomentosa*	Rubiaceae	Panama	Aiello (1984); DeVries (1987), Ackery (1988), Neild (1996)	*iphicla*
			Gonzalagunia	*spicata*	Rubiaceae	Trinidad	Barcant (1970); Aiello (1984), Ackery (1988), Riley (1975), Smith *et al.* (1994)	*iphicla*
		4	*Alseis*	*blackiana*	Rubiaceae	Panama	Aiello (1984); Ackery (1988), Neild (1996)	*iphicla*
		3	*Antirrhoea*	*trichantha*	Rubiaceae	Panama	Aiello (1984); Ackery (1988), Neild (1996)	*iphiclus*
			Antirrhoea	sp.	Rubiaceae	Panama	A. Orellana (pers. comm.)	*iphicla*
		1	*Isertia*	*haenkeana*	Rubiaceae	Panama	Aiello (1984); DeVries (1987), Ackery (1988), Neild (1996)	*iphicla*
		2	*Rondeletia*	*panamensis*	Rubiaceae	Panama	Aiello (1984); Ackery (1988)	*iphicla*
		11	*Guettarda*	*macrosperma*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	*iphiclus*
			Sipania	sp.	Rubiaceae	?	Fountaine, unpub. watercolours (*In*: Ackery, 1988)	*iphicla*
abyla			*Guettarda*	*argentea*	Rubiaceae	Jamaica	Milner & Turner (*In*: Smith *et al.*, 1994)	
			Mussaenda	*treutleri* (exotic)		Jamaica	Blake (*In*: Ellwood & Harvey, 1990)	
ethelda	*sophax*		*Sabicea*	*aspera*	Rubiaceae	Costa Rica	DeVries (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988), Neild (1996)	*zalmona zalmona*
****melona***	*leucocoma*		*Malanea*	sp.	Rubiaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*melona*
syma			*Rubus*	*fruticosus*	Rosaceae	Brazil	Müller (1886); Hayward (1969), Aiello (1984), Ackery (1988)	
			Rubus	*fruticosus*	Rosaceae	Uruguay	Biezanko *et al.* (1966)	
			Rubus	*fruticosus*	Rosaceae	Brazil: Pr	Brown (1992) (probably distinct record)	
			Rubus	*rosifolius* (intr.)	Rosaceae	Brazil: SP	A. Freitas (pers. comm.)	
			Rubus	*brasiliensis*	Rosaceae	Brazil: SP	A. Freitas (pers. comm.)	
			? *Rubus*	sp. (“zarza”)	Rosaceae	Argentina	Hayward (1931)	
			Rubus	sp.	Rosaceae	Brazil	Hoffmann (1936, 1937a)	
			Blackberry		Rosaceae	Brazil	Hoffmann (1936)	
			Cephalanthus	*glabratus*	Rubiaceae	Brasil: RS	Biezanko (1949); Hayward (1969, 1973)	
			Cephalanthus	*sarandi*	Rubiaceae	Brazil	Silva *et al.* (1968); Aiello (1984), Ackery (1988)	
****cytherea***	*cytherea*		*Sabicea*	*aspera*	Rubiaceae	Brazil	Moss (1933); Aiello (1984), Ackery (1988)	*cytherea*
*	*marcia*		*Sabicea*	*villosa*	Rubiaceae	Costa Rica	DeVries (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988), Neild (1996)	
			Sabicea	*villosa*	Rubiaceae	Costa Rica	Mallet (*In*: DeVries, 1986)	
		2	*Sabicea*	*villosa*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	
	daguana	1	*Sabicea*	*panamensis*	Rubiaceae	Panama	Aiello (1984); Ackery (1988), Neild (1996)	*cytherea marcia*
		2	*Sabicea*	*villosa*	Rubiaceae	Panama	Aiello (1984)	*cytherea marcia*
****viola***	*pseudococala*		*Sabicea*	*aspera*	Rubiaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*pseudococala*
?	*viola*		*Sabicea*	sp.	Rubiaceae	Brazil: SC	Müller (1886); Aiello (1984)	sp. nr. *cocala*
salmoneus	*salmonides*	2	*Sabicea*	*panamensis*	Rubiaceae	Panama	Aiello (1984); DeVries (1987), Neild (1996)	*salmoneus*
	salmonides	1	*Sabicea*	*panamensis*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	*salmoneus*
demialba			*Rondeletia*	sp.	Rubiaceae	Costa Rica	Haber (*In*: Aiello, 1984); DeVries (1987), Ackery (1988)	
			Rondeletia	*buddleioides*	Rubiaceae	Costa Rica	W. Haber (pers. comm.)	
			Rondeletia	*brenesii*	Rubiaceae	Costa Rica	W. Haber (pers. comm.)	

Species:	Subspecies:	Rec.†	Host genus:	Host species:	Host family:	Locality:	Source:	Reported as:
demialba			*Gonzalagunia*	*rosea*	Rubiaceae	Costa Rica	W. Haber (pers. comm.)	
epizygis			*Vitex*	*montevidensis*	Verbenaceae	Brazil	Silva *et al.* (1968); Aiello (1984), Ackery (1988)	
			Vitex	sp.	Verbenaceae	Brazil: RJ, MGe	Zikán & Zikán (1968), Brown (1992)	
***capucinus**	*capucinus*		False cacao		not Malpighiaceae	Brazil: Pa	Moss (1933); Aiello (1984), Neild (1996)	*thesprotia*
?	*velia*		*Tetrapterys*	sp.	Malpighiaceae	Bracil: SC	Müller (1886); Aiello (1984), Ackery (1988), Neild (1996)	*erotia* var.
? ***abia***			*Vitex*	sp.	Verbenaceae	Brazil: SC	Müller (1886); Aiello (1984), Ackery (1988), Brown (1992)	*abia*
***heraclea**	*heraclea*		*Vitex*	*triflora*	Verbenaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988)	*jordani*
*		2	*Vitex*	*cooperi*	Verbenaceae	Costa Rica	DeVries (1986, 1987); Neild (1996)	
			Piper	*arieianum*	Piperaceae	Costa Rica	Marquis (*In*: DeVries, 1986)	
(?)			-	-	Rubiaceae	Brazil: Ac	A. Freitas (pers. comm.)	
(?) ***erotia***	*erotia* (f.*lerna*)		*Stigmaphyllon*	sp.	Malpighiaceae	Costa Rica	P. DeVries (pers. comm.)	*lerna*
	erotia (f.*erotia*)		*Cecropia*	*mexicana*	Moraceae	El Salvador	A. Muyhondt (pers. comm.)	
phylaca	*pseudaethalia*	4	*Cecropia*	*obtusifolia*	Moraceae	Panama	Aiello (1984); Ackery (1988), Aiello (1991), Neild (1996)	*phylaca aethalia*
*		2	*Cecropia*	*peltata*	Moraceae	Panama	Coley & Aiello (*In*: Aiello, 1984); DeVries (1987), Ackery (1988), Neild (1996)	*phylaca aethalia*
		1	*Cecropia*	sp.	Moraceae	Panama	Aiello (1984)	*phylaca aethalia*
?			*Luehea*	*seemannii*	Tiliaceae	Costa Rica	Mallet (*In*: Aiello, 1984); DeVries (1986a, 1987), Ackery (1988), Neild (1996)	*boeotia oberthuri*
?			*Cecropia*	sp.	Moraceae	Costa Rica	DeVries (1987); Neild (1996)	*boeotia boeotia*
***messana**	*messana*		*Luehea*	*seemannii*	Tiliaceae	Panama	Aiello (1991); Neild (1996)	*ixia leucas*
?			*Cecropia*	*peltata*	Moraceae	Costa Rica	DeVries (1987); Neild (1996)	*phylaca*
?			*Cecropia*	*peltata*	Moraceae	Costa Rica	Janzen & Hallwachs (2000)	*phylaca*
***thesprotia**			*Bombax*	*munguba*	Bombacaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*delphicola*
*			*Cecropia*	sp.	Moraceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*delphicola*
			Cecropia	*adenopus*	Moraceae	Paraguay	Jørgensen (1924)	*juruana*
			Cecropia	sp.	Moraceae	Paraguay	Jørgensen (1934)	*juruana*
			Cecropia	sp.	Moraceae	Brazil: SP	A. Freitas (pers. comm.)	
*			*Pourouma*	sp.	Moraceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	*delphicola*
			Chodanthus	*splendens*	Bignoniaceae	Paraguay	Jørgensen (1924)	*juruana*
*			*Malanea*	sp.	Rubiaceae	Brazil: Pa	Moss (1933), captivity	*delphicola*
***mesentina**			*Pourouma*	sp.	Moraceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1988), Neild (1996)	
lycorias	*lycorias*		*Cecropia*	*pachystachia*	Moraceae	Brazil: SC	Müller (1886); Silva *et al.* (1968), Hayward (1969, 1973), Aiello (1984), Ackery (1988), Brown (1992)	*isis*
			Cecropia	sp.	Moraceae	Brazil: SP	A. Freitas (pers. comm.)	
			Coussapoa	*schottii*	Moraceae	Brazil: SC	Müller (1886); Silva *et al.* (1968), Hayward (1969), Aiello (1984), Ackery (1988), Brown (1992)	*isis*
			Pourouma	*acutiflora*	Moraceae	Brazil: SC	Müller (1886); Silva *et al.* (1968), Hayward (1969), Aiello (1984), Ackery (1988), Brown (1992)	*isis*
	lara		-	-	"Cecropiaceae"	Trinidad	Cock (*In*: Aiello, 1984); Ackery (1988), Neild (1996)	*lara*
			Cecropia	*peltata*	Moraceae	Venezuela	Orellana (*In*: Neild, 1996)	*lara*
	wallisii		*Cecropia*	*peltata*	Moraceae	Colombia	Constantino (1998)	*lara wallisii*
	melanthe		*Cecropia*	sp.	Moraceae	Costa Rica	DeVries (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988)	*melanthe*
		1	*Cecropia*	*peltata*	Moraceae	Costa Rica	Janzen & Hallwachs (2000)	
			Cecropia	*mexicana*	Moraceae	El Salvador	A. Muyshondt (pers. comm.)	
			Trema	*micrantha*	Ulmaceae	Costa Rica	DeVries (*In*: Aiello, 1984), DeVries (1986, 1987), Ackery (1988)	*melanthe*
		1	*Trema*	*micrantha*	Ulmaceae	Panama	Aiello (1984); Aiello (1991)	*melanthe*
		30	*Trema*	*micrantha*	Ulmaceae	Costa Rica	Janzen & Hallwachs (2000)	*melanthe*
			Urera	sp. (x2)	Urticaceae	Costa Rica	DeVries (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988)	*melanthe*
			Phenax	*hirtus*	Urticaceae	Costa Rica	W. Haber (pers. comm.)	*melanthe*

Species:	Subspecies:	Rec.†	Host genus:	Host species:	Host family:	Locality:	Source:	Reported as:
***lycorias**	*melanthe*		*Myriocarpa*	*longipes*	Urticaceae	Costa Rica	DeVries (1986, 1987); Ackery (1988)	*melanthe*
		2	*Myriocarpa*	*longipes*	Urticaceae	Costa Rica	Janzen & Hallwachs (2000)	*melanthe*
leuceria	*leuceria*		*Rondeletia*	prob. *laniflora*	Rubiaceae	El Salvador	A. Muyshondt (pers. comm.)	
			-	-	Rubiaceae	Costa Rica	P. DeVries (pers. comm.)	
cocala	*lorzae*	1	*Calycophyllum*	*candidissimum*	Rubiaceae	Panama	Aiello (1984); Neild (1996)	*cocala*
		2	*Calycophyllum*	*candidissimum*	Rubiaceae	Costa Rica	Janzen (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988), Janzen & Hallwachs (2000)	*cocala*
		1	*Chomelia*	*psilocarpa*	Rubiaceae	Panama	Aiello (1984); DeVries (1987), Ackery (1988), Neild (1996)	*cocala*
		1	*Uncaria*	*tomentosa*	Rubiaceae	Panama	Aiello (1984); DeVries (1987), Ackery (1988), Neild (1996)	*cocala*
		1	*Warszewiczia*	*coccinea*	Rubiaceae	Panama	Aiello (1984), Ackery (1988), Neild (1996)	*cocala*
	lorzae		*Pentagonia*	*macrophylla*	Rubiaceae	Costa Rica	DeVries (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988), Neild (1996)	*cocala*
*		2	*Pentagonia*	*maxoni*	Rubiaceae	Costa Rica	Specimen data in the PJD	
		6	*Pentagonia*	*donellsmithii*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	*cocala*
*			*Psychotria*	sp.	Rubiaceae	Costa Rica	Marquis (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988)	*cocala*
			Genipa	sp.	Rubiaceae	Costa Rica	DeVries (1987); Neild (1996)	*cocala*
		3	*Chimarrhis*	*parviflora*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	*cocala*
*	*cocala*		*Malanea*	sp.	Rubiaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1987), Neild (1996)	*cocala*
*			*Emmotum*	*nitens* ?	Icacinaceae	Brazil: Pa	Moss (1933); Aiello (1984), Ackery (1987), Neild (1996)	*cocala*
(?) ***cocala***	*didia/caninia*		-	-	Rubiaceae	Brazil: SP	Brown (1992)	*cocala*
(?) *cocala*	*didia/caninia*		-	-	Rubiaceae	Brazil: SP	A. Freitas (pers. comm.)	*cocala*
?? almost certainly *A. viola*			*Sabicea*		Rubiaceae	?	Fountaine, unpubl. watercolours (*In*: Ackery, 1988)	*cocala*
leucophthalma	*leucophthalma*		*Pentagonia*	*wendlandii*	Rubiaceae	Costa Rica	Young (1975); Ackery (1988)	
		2	*Pentagonia*	*donellsmithii*	Rubiaceae	Costa Rica	Janzen & Hallwachs (2000)	*leucophthalma*
			Pentagonia	spp.	Rubiaceae	Colombia	Andrade (1994)	
			-	-	Rubiaceae	Costa Rica	DeVries (*In*: Aiello, 1984); DeVries (1986, 1987)	
			-	-	Rubiaceae	Panama	Aiello (1984)	
(?) ***boreas***			*Satyria*	sp.	Ericaceae	Costa Rica	Marquis (*In*: Aiello, 1984); DeVries (1986, 1987), Ackery (1988)	
(?)			*Chomelia*	*bispinosa*	Rubiaceae	Costa Rica	DeVries (*In*: Aiello, 1984); DeVries (1986), Ackery (1988)	
zina	*zina*		Alternate leaved plant		Unknown	Panama	Aiello (1984)	*justina justina*
Unidentifiable								
? *thessalia*	*indefecta*		*Ilex*	*paraguariensis*	Aquifoliaceae	Argentina(?)	Blanchard (1928)	*calliphiclea*
? *radiata*			*Heliocarpus*	*popayanensis*	Tiliaceae	Panama	Aiello (1984)	nr. *celerio*
spp.			*Rubus*	sp.	Tiliaceae	Brazil: RJ	Peters (1897)	
sp.			*Bathysa*	nr. *barbinervis*	Rubiaceae	Brazil: SC	Müller (1886)	“sp. ign. 1”
sp.			*Bathysa* ?	sp.	Rubiaceae	Brazil: SC	Müller (1886)	“sp. ign. 2”
Erroneous								
Doxocopa laure			*Celtis*	sp.	Ulmaceae	Mexico	Comstock & Vázquez (1961)	*iphicla*
mesentina			*Cecropia*	sp.	Moraceae	[Brazil: Pa]	Ackery (1988), citing speculation by Moss (1933)	
diocles	*creton*		*Quercus*	sp.	Fagaceae	[Mexico]	Ackery (1988), citing Aiello (1984); original “record” speculation by Miller & Miller (1970)	*creton*
donysa			*Quercus*	sp.	Fagaceae	[Mexico]	Ackery (1988), citing Aiello (1984); original “record” speculation by Miller & Miller (1970)	
heraclea			*Piper*	*arieianum*	Piperaceae	Costa Rica	Marquis (*In*: Aiello, 1984); Ackery (1988); record for *heraclea* erroneously repeated under *naxia* (DeVries, pers. comm.)	*naxia*
			Vitex	*cooperi*	Verbenaceae	Costa Rica	DeVries (*In*: Aiello, 1984); Ackery (1988); record for *heraclea* erroneously repeated under *naxia* (DeVries, pers. comm.)	*naxia*

Species: **??** – identification very dubious. **?** – identification uncertain; reported taxon name incorrect (a combination of subspecific and specific names of different species, or a taxon not present in area of record), or vague information only. **(?)** – identity uncertain, but probably correct; either original identification incorrect, or several similar species present not recognised by author, with that listed here much more common than other(s). ***** voucher specimen or photograph examined. Thin lines separate species, thick lines separate postulated species groups (may not be monophyletic, see text). **Rec**.†: number of individual feeding records, where available. **Locality**: Ac – Acre; Ariz - Arizona; Cal - California; DF - Distrito Federal; MGe - Minas Gerais; Pa - Pará; PR - Paraná; RJ - Rio de Janeiro; RS - Rio Grande do Sul; SC - Santa Catharina; SP - São Paulo; Tex - Texas; Ut - Utah. **Source**: reference followed by “;” is deemed to be the original source. Unless stated to be new records, I regard later records as citations of previous, such as those of many field guides.

Taxon:	Egg:	Larva: 1	2	3	4	5	Pupa:	Oviposition:	Larval behaviour:	Source:	Locality:	Reported as:
bredowii												
californica							D			Edwards (1873)	USA: Cal	*L. californica*
californica	D; T	D	D	D	D	D	D	N, P	D	Dyar (1891)	USA: Cal	*H. californica*
californica						D	F b/w, lateral, dorsal & ventral; D			Comstock (1927)	USA: Cal	*H. californica*
californica	F b/w; D; T	F b/w; D; T	D; T	D; T	Ph b/w; D; T	D; T	D; T	N, P	D	Comstock & Dammers (1932)	USA: Cal	*H. bredowii californica*
californica						F b/w, lateral	F b/w, lateral			Emmel & Emmel (1973)	USA: Cal	
eulalia						D	D			Emmel & Emmel (1973)	USA: Cal	
*	Ph c	Ph c	Ph c	Ph c	Ph c	Ph c	Ph c, lateral			Harry (1994)	USA: Ut	
eulalia/californica		D				D	D			Scott (1986)	USA	*L. bredowii*
paraena												
* *paraena*						F b/w, dorsal, head capsule; D. BMNH(MM): cast larval skins	F b/w, lateral and dorsal ant. half; D. BMNH(MM): pupal cases		D	Moss (1933)	Brazil: Pa	*serpa*
* *lecromi/massilia*					T	F b/w, lateral (Fig. 4: nr. PAR); D; T	F b/w, lateral and dorsal anterior half (fig. 6, nr. PAR); D; T			Aiello (1984)	Panama	nr. *paraena*
serpa												
* *diadochus*						F b/w, lateral; D. BMNH(MM): cast larval skins	D. BMNH(MM): pupal cases		D	Moss (1933)	Brazil: Pa	*paraena*
serpa	D; T	D					T	P	D	Hoffmann (1937a)	Brazil: SC	
(?) *serpa*						D; F b/w, head capsule, taf. 2, fig. 21, scoli, taf. 2, fig. 7	D	P		Müller (1886)	Brazil: SC	*serpa*
(?) *serpa*							D			D'Almeida (1922)	Brazil: RJ	*serpa*
* *celerio*				T min.	T	F b/w head capsule (Fig. 2); D; T	F b/w, dorsal anterior half; D; T			Aiello (1984)	Panama	*celerio*
* *celerio*						D; PJD: head capsule	F b/w, dorsal (Fig. 24, F); PJD: pupal case, T	N, N/plant	D	DeVries (1986, 1987)	Costa Rica	*celerio*
(?) *celerio*	F b/w	D	D	D		F b/w; D; T total	F b/w; D; T	P	D	Comstock & Vázquez (1961)	Mexico	*celerio*
seriphia *aquillia*							BMNH(M): pupa			A. Fassl, specimen	Colombia	
hyas *hyas*	D									Hoffmann (1937a)	Brazil: SC	
****radiata*** *aiellae*						D	D			Constantino (1998)	Colombia	*serpa*
****alala*** *completa*	D	D	D	D		Ph b/w; F b/w, head capsule; D	F b/w, lateral and dorsal view; D	P; N, N/plant	Ph b/w leaf shelter; D	Otero & Aiello (1996)	Venezuela	*alala*
****tracta***						PJD: head capsule	PJD: pupal case, T		D	Haber (*In*: DeVries, 1986)	Costa Rica	
donysa *albifilum*						Ph c	Ph c		D	A. Muyshondt (*In*: this work)	El Salvador	
fessonia												
fessonia									D	Janzen (*In*: DeVries, 1986)	Costa Rica	*fessonia*
* *fessonia*						FSCA: head capsules	FSCA: pupal cases			R. W. Bosese, specimens	USA: Tex	
fessonia		----------total T----------								R. W. Bosese, specimens	USA: Tex	
fessonia						Ph c				Janzen & Hallwachs (2000)	Costa Rica	*fessonia*
mythra						D				Müller (1886)	Brazil: SC	
mythra	D			D	D	D; F b/w	D; F b/w	N, P	D	Freitas *et al*. (in press)	Brazil: SP	
* ***basiloides***	D; T min.	D; T	D; T	T	T	F b/w, lateral (Fig. 4) and head capsule (Fig. 2); D; T, + T for 6th instar	F b/w, lateral and dorsal anterior half; D; T	D	D	Aiello (1984)	Panama	
* ***basiloides***						PJD: head capsule	PJD: pupal case		D	Marquis, Mallet & Janzen (*In*: DeVries, 1986)	Costa Rica	
* ***basiloides***		----------USNM: head capsules----------					USNM: pupal cases			G. Small, specimens	Panama	
plesaure												
plesaure						D	D; F b/w, ventral (Taf. 4, fig. 13)	P		Müller (1886)	Brazil: SC	
* *phliassa*						F b/w, lateral; D. BMNH(MM): dried larvae	F b/w, lateral and dorsal anterior half; D. BMNH(MM): pupal cases		D	Moss (1933)	Brazil: Pa	*phliassa*
? ***thessalia*** *indefecta*						D	D; T	N	D	Jørgensen (1922)	Paraguay	*calliphiclea*

Taxon:	Egg:	Larva: 1	2	3	4	5	Pupa:	Oviposition:	Larval behaviour:	Source:	Locality:	Reported as:
iphiclus												
(?) *ephesa*						D				Müller (1886)	Brazil: SC	*ephesa*
(?) *ephesa*	D; T	D; T	D;T	D; T	D; T	D; T	D; T	N, P	D	D'Almeida (1933)	Brazil: RJ	*iphicla ephesa*
* *iphiclus*						F b/w, lateral	F b/w, lateral and dorsal anterior half. BMNH(MM): pupal case			Moss (1933)	Brazil: Pa	*iphicla*
iphiclus/ iphicleola									D	Janzen (*In*: DeVries, 1986)	Costa Rica	*iphicla iphicleola*
i./iphicleola						D		P		Müller (1886)	Brazil: SC	*iphicla*
i./iphicleola	D; T	D; T	T	T	T	F b/w, lateral (Fig. 4) and head capsule (Fig. 2); D; T	F b/w, lateral and dorsal anterior half; D; T	P		Aiello (1984)	Panama	*iphicla*
i./iphicleola									D	DeVries (1987)	Costa Rica	*iphiclus*
* *i./iphicleola*		----------USNM: head capsules----------					USNM: pupal cases			G. Small, specimens	Panama	
abyla						D	D			Swainson (1901)	Jamaica	*H. iphicla*
abyla				D	D	D	D	N, P		Milner & Turner (*In*: Smith *et al*., 1994)	Jamaica	
abyla						F c	F c			Blake, unpub. watercolour, BMNH	Jamaica	
ethelda *sophax*	D					D	D "as in *A. cytherea*".	N, N/plant	D	DeVries (1986, 1987)	Costa Rica	*zalmona sophax*
melona* *leucocoma						F b/w, lateral, head capsule; D. BMNH(MM): dried larvae	F b/w, lateral and dorsal anterior half; D. BMNH(MM): pupal cases			Moss (1933)	Brazil: Pa	
syma						D				Müller (1886)	Brazil: SC	
syma	D; T	D; T	------	D; T	-------	D; T	D; T	P; N/plant	D	Hoffmann (1937a)	Brazil: SC	
syma	D	D		D		D; F b/w	D; F b/w	N, P	D; F b/w	Freitas *et al*. (in press)	Brazil: SP	
cytherea												
* *cytherea*			D			F b/w, lateral; D. BMNH(MM): cast larval skins	F b/w, lateral and dorsal anterior half. BMNH(MM): pupal cases		D	Moss (1933)	Brazil: Pa	
* *marcia*	D					D	D "similar to *A. boreas*"; PJD: pupal case	N, N/plant	D	DeVries (1986, 1987)	Costa Rica	
* *daguana*	D; T min.	D; T	T	T		T	F b/w, lateral (Fig. 4) and head capsule (Fig. 2); D; T	F b/w, lateral and dorsal anterior half; D; T		Aiello (1984)	Panama	*cytherea marcia*
* *daguana*		----------USNM: head capsules----------					USNM: pupal cases			G. Small, specimens	Panama	
(?) *aea*		D						P		Müller (1886)	Brazil: SC	*cytherea* ?
viola												
* *pseudococala*						F b/w, lateral; D. BMNH(MM): dried larvae	F b/w, lateral and dorsal anterior half. BMNH(MM): pupal cases			Moss (1933)	Brazil: Pa	*pseudococala*
(?) *viola*						D; F b/w, lateral, taf. 3, fig. 2		P		Müller (1886)	Brazil: SC	sp. nr. *cocala*
? *viola*	D	D	D	D				N, P		D'Almeida (1931)	Brazil: RJ	*cocala viola*
salmoneus												
* *salmonides*	D; T min.	D; T	D; T	D; T	D; T	F b/w, lateral (Fig. 4) and head capsule (Fig. 2); D; T	F b/w, lateral and dorsal anterior half; D; T	P		Aiello (1984)	Panama	*salmoneus*
salmonides							D "similar to *A. zalmona*"			DeVries (1987)	Costa Rica	
demialba									D	Haber (*In*: DeVries, 1986)	Costa Rica	
demialba							D			DeVries (1987)	Costa Rica	
capucinus												
* *capucinus*		D		D	D	F b/w, dorsal; D. BMNH(MM): dried larvae	F b/w, lateral and dorsal anterior half. BMNH(MM): pupal cases		D	Moss (1933)	Brazil: Pa	*thesprotia*
? *velia*						F b/w scolus, taf. 2, fig. 8				Müller (1886)	Brazil: SC	*erotia* var.
(?) ***abia***						D	D			Müller (1886)	Brazil: SC	
heraclea												
* *heraclea*		D				F b/w, lateral; D. BMNH(MM): dried larvae	F b/w, lateral and dorsal anterior half; D. BMNH(MM): pupal cases		D	Moss (1933)	Brazil: Pa	*jordani*
* *heraclea*	D					F b/w, lateral (Fig. 24, E); D; PJD: head capsule & cast skin	D; PJD: pupal case, T	N, N/plant	D	DeVries (1986, 1987)	Costa Rica	*heraclea*

Taxon:	Egg:	Larva: 1	2	3	4	5	Pupa:	Oviposition:	Larval behaviour:	Source:	Locality:	Reported as:
erotia												
* *erotia* (f. *lerna*)							Pupa with large dorsal hook			A. Aiello (pers. comm.)	Panama	
phylaca												
* *pseudaethalia*	D	D; T	T	T	T	F b/w, lateral (Fig. 4) and head capsule (Fig. 2); D; T	F b/w, lateral and dorsal anterior half; D; T	P		Aiello (1984)	Panama	*phylaca pseudaethalia*
pseudaethalia						Ph b/w lateral				Aiello (1991)	Panama	
* *pseudaethalia*						D	D			DeVries (1987)	Costa Rica	*boeotia boeotia*
***messana** messana*					D	Ph b/w lateral; F b/w lateral; D; T	F b/w, lateral and dorsal anterior half; D		D	Aiello (1991)	Panama	*ixia leucas*
thesprotia		D				F b/w, lateral. BMNH(MM): dried larvae	F b/w, lateral and dorsal anterior half. BMNH(MM): pupal cases		D	Moss (1933)	Brazil: Pa	*delphicola*
mesentina						F b/w, lateral	F b/w, c, lateral and dorsal anterior half. BMNH(MM): pupal cases			Moss (1933)	Brazil: Pa	
lycorias												
lycorias	D	D; T	D; T	D; T	D; T	F b/w lateral, taf. 3, fig. 5, scoli, taf. 2, fig. 3; D; T	F b/w, lateral view, taf. 4, fig. 8; D; T	P		Müller (1886)	Brazil: SC	*isis*
lycorias							BMNH: Pupal case			Specimen	Brazil	
melanthe	D	D; T min.	T min.	T	T	F b/w, lateral (Fig. 4) and head capsule (Fig. 2); D; T	F b/w, lateral and dorsal anterior half; D; T	P		Aiello (1984)	Panama	*melanthe*
melanthe	D					F b/w, lateral (Fig. 24, D); D; PJD: head capsule	F b/w, lateral (Fig. 24, C); D. PJD: pupal case	N, N/plant	D	DeVries (1986, 1987)	Costa Rica	*melanthe*
melanthe						Ph b/w lateral				Aiello (1991)	Panama	*melanthe*
* *melanthe*		----------USNM: head capsules----------					USNM: pupal cases			G. Small, specimens	Panama	
wallisii	D		D			D	D			Constantino (1998)	Colombia	*lara wallisii*
***leuceria** leuceria*						Ph b/w, lateral, dorsal, frontal	Ph c, lateral			A. Muyshondt (*In*: this work)	El Salvador	
cocala												
* *cocala*			D			F b/w, lateral; D	F b/w, lateral and dorsal anterior half. BMNH(MM): pupal cases		D	Moss (1933)	Brazil: Pa	
* *lorzae*	D	D; T	T	T	T	F b/w, lateral (Fig. 4) and head capsule (Fig. 2); D; T	F b/w, lateral and dorsal anterior half; D; T	P		Aiello (1984)	Panama	*cocala*
* *lorzae*				PJD:T	PJD:T	D; PJD: head capsule, T	D; PJD: pupal case, T	P; N,N/plant	D	DeVries (1986)	Costa Rica	
* *lorzae*		----------USNM: head capsules----------					USNM: pupal cases			G. Small, specimens	Panama	
leucophthalma												
leucophthalma	Ph b/w; D; T	Ph b/w, d-lat.	Ph b/w, d-lat.	Ph b/w, d-lat.	Ph b/w, lat.	Ph b/w, lateral, dorsal, head capsule; D; T for all larval stages	Ph b/w, lateral, ventral; D; T	P; N, N/plant	D; Ph resting posture	Young (1975)	Costa Rica	*leucophthalma tegeata*
* *leucophthalma*			T	T	T	D "indistinguishable from *cocala*"; T	D; T			Aiello & Small (*In*: Aiello, 1984)	Panama	
leucophthalma								N, N/plant	D	DeVries (1986)	Costa Rica	*leucophthalma mephistopheles*
(?) ***boreas** boreas*						D	D	N, N/plant	D	DeVries (1986, 1987)	Costa Rica	*boreas tizona* & *b. opheltes*
***zina** zina*		D; T	T	T	T	F b/w, lateral (Fig. 5); D; T	F b/w, lateral and dorsal anterior half; D; T			Aiello & Small (*In*: Aiello, 1984)	Panama	*justina justina*
Unidentifiable												
? ***radiata** aiellae*						D; F b/w, lateral (Fig. 4: CEL)	D			Aiello (1984)	Panama	nr. *celerio*
? sp.						D	D		D	Blanchard (1928)	Argentina	*calliphiclea*

Taxon: **?** - identification uncertain, several similar species present at record locality; **(?)** - identification uncertain, but probably correct - either reported identification is incorrect, or several similar species present which were not recognised by author, with that listed here much more common than other(s). ***** adult voucher specimen or photograph examined. Thin lines separate species, thick lines separate postulated species groups, (may not be monophyletic, see text). **Egg, Larva, Pupa, Oviposition, Larval behaviour**: Ph – photograph; F – figure; D – description; T – development time; c – colour; b/w – black and white; d-lat. - dorso-lateral; P – position on leaf; N – number of eggs laid per oviposition event; N/plant – number of eggs per plant. Confirmed records chronological within each species, uncertain records listed last. Specimens in collections on which publications have been based listed in the same row as the publication information. **Locality**: Cal - California; Pa - Pará; RJ - Rio de Janeiro; SC - Santa Catharina; Tex - Texas; Ut - Utah.

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