

AN ANNOTATED LIST OF THE BUTTERFLIES AND
SKIPPERS OF CUBA (LEPIDOPTERA, RHOPALOCERA)BY SALVADOR LUIS DE LA TORRE Y CALLEJAS
PROFESSOR OF ZOOLOGY

UNIVERSIDAD DE ORIENTE, SANTIAGO DE CUBA

(Continued from Vol. LXII, No. 3)

108. MARPESIA MARIUS (Cramer)

Papilio marius Cramer, (not Stoll), 1779 (See Brown, 1941: 130).*Marpesia chiron*: Gundlach, 1881: 35; Comstock, 1944: 463; Avinoff
& Shoumatoff, 1946: 280; Munroe, 1951: 56.*Athena (Timetes) chiron*: Hoffmann, 1933: 236.*Athena chiron*: Bates, 1935: 171; Field, 1938b: 93; Holland, 1942:
162; Bruner, Scaramuzza & Otero, 1945: 23, 39.*Timetes chiron*: Hoffmann, 1940c: 687; Brown, 1945: 42.*Marpesia marius*: d'Almeida, 1941: 312; S. L. de la Torre, 1949c:
190.We adopt the name *Marpesia marius* Cr. seeing that *Papilio chiron*
Fabr., 1775, is homonymous with *Papilio chiron* Rott., 1775.Illustrations.—Bates, 1935: f. 2, (outline of wing); Holland, 1942:
pl. XXI, f. 4; Comstock, 1944: pl. 7, f. 7; Oiticica Filho, 1946:
f. 8, 9, (genital).

109. MARPESIA ELEUCHEA ELEUCHEA Hübner

Marpesia eleucea Hübner, 1818; Comstock, 1944: 462.*Marpesia eleucha*: Gundlach, 1881: 35.*Timetes eleucha*: Holland, 1916: 493.*Athena eleucea eleucea*: Bates, 1935: 172; Bruner, Scaramuzza &
Otero, 1945: 76, 78.*Megalura eleucha*: Hall, 1936: 277.Genus *Hypolimnas* Hübner*Hypolimnas* Hübner, 1821.*Diadema* Boisduval, 1832; preoccupied in Crustacea.Genotype: *Papilio pipleis* Linnaeus, 1758 (= ♂ *Papilio pandarus* L.,
1758).

110. HYPOLIMNAS MISIPPUS (Linnæus)

Papilio misippus Linnæus, 1764.

Hypolimnas misippus: Gundlach, 1881: 42; Bates, 1935: 172; Hall, 1936: 277; Holland, 1942: 145; Comstock, 1944: 463; J. A. Ramos, 1946: 53; Avinoff & Shoumatoff, 1946: 282.

Hypolimnas missipus: M. Sánchez Roig & G. S. Villalba, 1934b: 33.

Hypolimnas missippus: Beatty, 1944: 156.

Hypolimnas misippus misippus: Munroe, 1951: 56.

Illustrations.—M. Sánchez Roig & G. S. Villalba, 1934b: f. 5; Holland, 1942: pl. XXI, f. 9, 10; Comstock, 1944: pl. 7, f. 4, (♀), f. 13, (♂).

Genus *Historis* Hübner

Historis Hübner, 1819: 35.

Coea Hübner, 1819: 48.

Aganisthos Boisduval & Leconte, 1836?.

Genotype: *Papilio odius* Fabricius, 1775.

111. HISTORIS ODIUS ODIUS (Fabricius)

Papilio odius Fabricius, 1775.

Aganisthos odius: Gundlach, 1881: 68; Holland, 1916: 493.

Historis odius odius: Bates, 1935: 173; Comstock, 1944: 464; Bruner, Scaramuzza & Otero, 1945: 35; S. L. de la Torre, 1952: 64.

Historis odius: Avinoff & Shoumatoff, 1946: 282.

Illustration.—Comstock, 1944: pl. 8, f. 1.

112. HISTORIS ACHERONTA SEMELE (Bates)

Coea acheronta semele Bates, 1939: 4.

Megistanis acheronta: Gundlach, 1881: 36.

Coea acheronta: Bates, 1935: 173.

Historis acheronta semele: Comstock, 1944: 467; S. L. de la Torre, 1952: 64.

This subspecies was described by Marston Bates in 1939 (See *Memorias Sociedad Cubana de Hist. Nat.*, vol. XIII, p. 4).

Illustration.—Comstock, 1944: pl. 6, f. 2.

Genus *Colobura* Billberg

Colobura Billberg, 1820.

Gynoecia Doubleday, 1844.

Gynaecia Doubleday, 1850.

Genotype: *Papilio dirce* Linnæus, 1758.

113. COLOBURA DIRCE CLEMENTI Comstock

Colobura dirce Clementi W. P. Comstock, 1942d: 284; S. L. de la Torre, 1949c: 184.

Gynaecia dirce: Gundlach, 1881: 48; id., 1891: 448.

Colobura dirce: Bates, 1935: 174; Bruner, Scaramuzza & Otero, 1945: 35; Alayo, 1950: 97.

This subspecies was described by Wm. P. Comstock in 1942 (See Journal N. Y. Ent. Soc., vol. L, p. 284).

Illustration.—Bruner, Scaramuzza & Otero, 1945: pl. V, f. 3, (larva).

Genus *Lucinia* Hübner

Lucinia Hübner, 1823.

Genotype: *Lucinia sida* Hübner, 1823.

114. LUCINIA SIDA Hübner

Lucinia sida Hübner, 1823; Gundlach, 1881: 69; Bates, 1935: 175; Bruner, Scaramuzza & Otero, 1945: 70.

Lucinia cadma: Holland, 1916: 492; Avinoff & Shoumatoff, 1946: 281.

Genus *Eunica* Hübner

Evonyme Hübner, 1819: 61.

Eunica Hübner, 1819: 61.

Faunia Poey, 1847; preoccupied in Diptera.

Genotype: *Papilio monima* Stoll, 1784.

The name *Evonyme* precedes *Eunica* on page 61 of Hübner's Verzeichniss, but we use the second name considering that this name has been used during a century in almost all books upon butterflies.

115. EUNICA TATILA TATILISTA Kaye

Eunica tatila tatilista Kaye, 1926; Comstock, 1942d: 287; id., 1944: 469; Beatty, 1944: 156; Avinoff & Shoumatoff, 1946: 280; S. L. de la Torre, 1952: 69.

Eunica tatila: Gundlach, 1881: 50; Holland, 1942: 158.

Eunica tatila tatila: Bates, 1935: 176.

Illustrations.—Holland, 1942: pl. LIX, f. 29; Comstock, 1944: pl. 7, f. 2.

116. EUNICA MONIMA (Stoll)

Papilio monima Stoll (not Cramer), 1784 (See Brown, 1941: 130).

Eunica monima: Gundlach, 1881: 51; Hoffmann, 1940c: 684; Holland, 1942: 158; Comstock, 1944: 469; Brown, 1945: 39; J. A. Ramos, 1946: 53; Avinoff & Shoumatoff, 1946: 280; S. L. de la Torre, 1952: 69.

Eunica monima modesta: Hoffmann, 1933: 237.

Eunica monima habanae: Bates, 1935: 176.

Evonyma monima: Orfila, 1951: 52.

According to Comstock (1944: 469), there are no important differences among the specimens of Mexico, Central-America, Venezuela, Brazil, Porto Rico, Hispaniola and Cuba, so that we must not divide the species *monima* into subspecies.

Illustrations.—Holland, 1942: pl. XXI, f. 7, 8; Comstock, 1944: pl. 7, f. 3.

117. EUNICA PUSILLA FAIRCHILDI Bates

Eunica pusilla fairchildi Bates, 1935: 177; Bruner, 1947: 28.

118. EUNICA MACRIS HERACLITUS Eschscholtz

Eunica heraclitus: Gundlach, 1881: 52.

Eunica macris heraclitus: Bates, 1935: 177.

Genus *Dynamine* Hübner

Dynamine Hübner, 1819.

Genotype: *Papilio mylitta* Cramer, 1779.

119. DYNAMINE EGÆA CALAIS Bates

Dynamine egæa calais Bates, 1936: 226; Bruner, Scaramuzza & Otero, 1945: 142.

Dynamine serina: Gundlach, 1881: 47.

Dynamine egæa zetes?: Bates, 1935: 178.

This subspecies was described by Marston Bates in 1936 (See Mem. Soc. Cub. Hist. Nat., vol. IX, p. 226).

120. DYNAMINE MYLITTA BIPUPILLATA Röber

Dynamine mylitta ab. *bipupillata* Röber in Seitz, 1915.

Dynamine postverta: Gundlach, 1881: 46.

Dynamine mylitta bipupillata: Bates, 1935: 179.

Genus *Hamadryas* Hübner

Hamadryas Hübner, 1806.

Ageronia Hübner, 1819.

Genotype: *Papilio amphinome* Linnaeus, 1767.

121. HAMADRYAS AMPHINOME MEXICANA (Lucas)

Peridromia mexicana Lucas, 1853.

Ageronia amphinome mexicana: Hoffmann, 1933: 239; id., 1940c:

686; Bates, 1936: 227; Brown, 1945: 42; Bruner, 1947: 27.

Hamadryas amphinome mexicana: S. L. de la Torre, 1949: 65.

This species was reported by M. Bates in 1936 (See *Memorias Soc. Cub. Hist. Nat.*, vol. IX, p. 227).

Illustration.—Bates, 1936: f. 1.

122. HAMADRYAS FEROX DIASIA (Fruhstorfer)

Ageronia ferox diasia Fruhstorfer, 1916.

Ageronia februa? : Hoffmann, 1933: 238; id., 1940c: 685.

Ageronia ferentina diasia: Bates, 1936: 228; Bruner, 1947: 27.

Ageronia februa februa? : Berger, 1939: 199.

Ageronia feronia: Holland, 1942: 161.

Hamadryas ferox diasia: Comstock, 1944: 471; J. A. Ramos, 1946:

53; S. L. de la Torre, 1949: 65.

This species was reported by M. Bates, in 1936 (See *Memorias Soc. Cub. Hist. Nat.*, vol. IX, p. 228).

Illustrations.—Holland, 1942: pl. XXIV, f. 4; Comstock, 1944: pl. 6, f. 10.

Genus *Doxocopa* Hübner

Doxocopa Hübner, 1819.

Chlorippe "Boisduval" Doubleday, 1844.

Genotype: *Papilio agathina* Cramer, 17—.

123. DOXOCOPA LAURE DRURYI (Hübner)

Catargyria druryi Hübner, 182—.

Apatura druryi: Gundlach, 1881: 61.

Doxocopa laure druryi: Bates, 1935: 180; Bruner, Scaramuzza & Otero, 1945: 31; S. L. de la Torre, 1946b: 121.

Genus *Limenitis* Fabricius

Najas Hübner, 1806.

Limenitis Fabricius, 1807.

Limonetes Billberg, 1820.

Nymphalus Boitard, 1828.

Nympha Krause, 1839.

Basilarchia Scudder, 1872.

Parathyma Moore, 1898.

Genotype: *Papilio populi* Linnaeus, 1758.

The name *Najas* Hbn., which was published in the "Tentamen" in 1806, is invalid in Opinion 97 of the International Commission on Zoological Nomenclature.

According to R. Chermock (1950: 536), *Adelpha* Hbn., 1819, is a subgenus of *Limenitis*, and the name *Heterochroa* Boisd., 1836, is considered as a synonym of *Adelpha*.

124. LIMENITIS (LIMENITIS) ARCHIPPUS FLORIDENSIS (Strecker)
? *archippus floridensis* Strecker, 1878.

Basilarchia floridensis: J. H. Comstock & A. B. Comstock, 1936: 173; Holland, 1942: 165.

Basilarchia archippus floridensis: Field, 1938b: 58.

Limenitis archippus floridensis: R. L. Chermock, 1947: 1; id., 1950: 566; S. L. de la Torre, 1949: 65; id., 1949c: 181.

This species was captured by Mr. José Cabrera in Cotorro, Havana province, on August 7, 1933, and reported in March, 1934, under the name *Basilarchia missippus* (L.) (See Mem. Soc. Cub. Hist. Nat., vol. VIII, p. 34).

Illustrations.—J. H. Comstock & A. B. Comstock, 1936: pl. XXVIII, f. 4; Holland, 1942: pl. LXXIII, f. 1, 2; Chermock, 1950: f. 30, (genital).

125. LIMENITIS (ADELPHA) IPHICLA IPHIMEDIA (Fruhstorfer)

Adelpha iphicla iphimedia Fruhstorfer, 1915; Bates, 1935: 180; Bruner, Scaramuzza & Otero, 1945: 27.

Adelpha basilea: Gundlach, 1881: 29.

Adelpha iphicla: Holland, 1916: 493.

Genus *Asterocampa* Röber

Asterocampa Röber, 1916.

Celtiphaga Barnes & Lindsey, 1922.

Genotype: *Asterocampa celtis* (Boisduval & Leconte, 1833).

126. ASTEROCAMPA ARGUS IDYJA (Geyer)

Doxocopa idyja Geyer, 1828; Gundlach, 1881: 62.

Asterocampa lycaon idyja: Bates, 1935: 181; Bruner, Scaramuzza & Otero, 1945: 126.

Asterocampa argus idyja: Comstock, 1944: 473; S. L. de la Torre, 1952: 64.

Illustration.—Comstock, 1944: pl. 7, f. 9.

Genus *Prepona* Boisduval

Prepona Boisduval, 1836.

Genotype: *Nymphalis demodice* Godart, 1821 (= *Morpho omphale* Hbn., 1819)

127. PREPONA ANTIMACHE CRASSINA Fruhstorfer

Prepona antimache crassina Fruhstorfer, 1904; Bates, 1935: 182; Comstock, 1944: 475.

Prepona amphitoe: Gundlach, 1881: 33.

Genus *Siderone* Hübner

Siderone Hübner, 1823.

Genotype: *Siderone ide* Hübner, 1823.

128. SIDERONE NEMESIS (Illiger)

Papilio nobilis nemesis Illiger, 1801.

Siderone nemesis: Gundlach, 1881: 32; Hoffmann, 1933: 240; id.,

1940c: 691; Comstock, 1944: 475.

Siderone ide: Holland, 1916: 493.

Sdierone nemesis nemesis: Bates, 1935: 182; Bruner, Scaramuzza & Otero, 1945: 31; Bruner, 1947: 28; Munroe, 1951: 56.

Illustration.—Comstock, 1944: pl. 7, f. 10.

Genus *Hypna* Hübner

Hypna Hübner, 1819.

Genotype: *Papilio clytemnestra* Cramer, 1779.

According to Johnson and Comstock (See Journal N. Y. Ent. Soc., vol. XLIX, p. 331), we separate the genera *Hypna* and *Anaea* on account of the differences that exist in the genitals of their species.

129. HYPNA CLYTEMNESTRA IPHIGENIA Lucas

Hypna clytemnestra var. *iphigenia* Lucas, 1857; Gundlach, 1881: 33.

Hypna iphigenia: Hall, 1917: 173.

Anaea clytemnestra iphigenia: Bates, 1935: 183.

Hypna clytemnestra iphigenia: Johnson & Comstock, 1941: 331; S. L. de la Torre, 1952: 64.

Genus *Anaea* Hübner

Paphia Fabricius, 1807; preoccupied in Mollusca.

Anaea Hübner, 1819.

Memphis Hübner, 1819.

Corycia Hübner, 1825; preoccupied in the family Noctuidae.

Cymatogramma Doubleday, 1849.

Pyrrhanaea Schatz, 1892.

Genotype: *Papilio troglodyta* Fabricius, 1775.

130. ANÆA AIDEA CUBANA (Druce)

Perrhanaea cubana Druce, 1905.

Anaea troglodyta: Gundlach, 1881: 30.

Anaea troglodyta cubana: Bates, 1935: 183.

Anaea aidea cubana: Johnson & Comstock, 1941: 307; S. L. de la Torre, 1952: 64.

Illustrations.—Johnson & Comstock, 1941: pl. IX, f. 8, 9, (genital), pl. XII, Map 1.

131. ANÆA ECHEMUS (Westwood & Hewitson)

Cymatogramma echemus Westwood & Hewitson, 1850 (See Brown, 1941: 133).

Anæa echemus: Gundlach, 1881: 31; Johnson & Comstock, 1941: 328; S. L. de la Torre, 1952: 64.

Anæa echemus: Gundlach, 1881: 31; Johnson & Comstock, 1941: 328; S. L. de la Torre, 1952: 64.

Anæa verticordia echemus: Bates, 1935: 185.

Illustrations.—Bates, 1935: f. 13, (venation); Johnson & Comstock, 1941: pl. XI, f. 42, 43, (genital), pl. XII, Map 3; S. L. de la Torre, 1951c: f. 2, p. 337.

132. ANÆA ECHEMUS f. AGUAYOI S. L. Torre

Anæa echemus f. *aguayoi* S. L. de la Torre, 1951c: 336; id., 1952: 64.

This form was described by the writer in 1951 (See Proc. Ent. Soc. Washington, vol. 53, p. 336).

Illustration.—S. L. de la Torre, 1951c: f. 1, p. 337.

Family LIBYTHEIDÆ

Subfamily LIBYTHEINÆ

Genus *Libytheana* Michener

Libytheana Michener, 1943: 1.

Genotype: *Libythea bachmanii* Kirtland, 1852.

New genus created by Dr. C. D. Michener in 1943 for the American species of the family *Libytheidæ*, which heretofore had been placed, together with the species of the Old World, into the genus *Libythea* Fabricius, 1807 (See American Museum Novitates, No. 1232).

133. LIBYTHEANA MOTYA (Hübner)

Hecarge motya Hübner, 1823.

Libythea terena: Gundlach, 1881: 70.

Libythea carinenta motya: Bates, 1935: 186; S. L. de la Torre, 1946: 106.

Libythea motya: Field, 1938b: 130.

Libytheana motya: Michener, 1943b: 1; Comstock, 1944: 483; S. L. de la Torre, 1949c: 179.

Illustrations.—Bates, 1935: f. 14, (venation); S. L. de la Torre, 1946: pl. 10, f. 63-67, (scales).

134. *LIBYTHEANA BACHMANII BACHMANII* (Kirtland)

Libythea bachmanii: Clark, 1932: 128; Garth, 1950: 29.

Libythea carinenta bachmani: M. Sánchez Roig & G. S. Villalba, 1934: 110; id., 1934b: 33.

Libythea bachmani: Fazzini, 1934: 36.

Hypatus bachmanii: J. H. Comstock & A. B. Comstock, 1936: 210.

Libythea bachmanii bachmanii: Field, 1938: 124; id., 1938b: 131.

Libythea bachmanni: Holland, 1942: 210.

Libytheana bachmanii: Michener, 1943b: 1; Comstock, 1944: 482.

Libytheana bachmanii bachmanii: Breland, 1948: 128; S. L. de la Torre, 1949: 65; id., 1949c: 179.

This species was captured in June, 1933 by Dr. M. Sánchez Roig and G. S. Villalba in "La Lisa", Havana prov. (See Mem. Soc. Cub. Hist. Nat., vol. VIII, p. 110).

Illustrations.—Clark, 1932: pl. 6, f. 2, 3; Fazzini, 1934: p. 26, fig. not numbered; M. Sánchez Roig & Villalba, 1934b: f. 4; J. H. Comstock & A. B. Comstock, 1936: text fig. 38; Holland, 1942: pl. V, f. 23, 24, (chrysalis), pl. XXVIII, f. 1, 2; Michener, 1943b: f. 4-6, (chrysalis).

Family RIODINIDÆ

Subfamily RIODININÆ

Genus APODEMIA Felder & Felder

Apodemia Felder & Felder, 1865.

Genotype: *Lemonias mormo* Felder & Felder, 1859.

135. *APODEMIA CARTERI RAMSDENI* (Skinner)

Mesosemia remsdeni Skinner, 1912.

Apodemia carteri ramsdeni: Bates, 1935: 187.

Illustration. — Comstock, 1944: text fig. 12, (venation).

Family LYCÆNIDÆ

Subfamily THECLINÆ

Genus EUMÆUS Hübner

Eumæus Hübner, 1819.

Eumenia Godart, 1824.

Genotype: *Rusticus Adolescens minijas* Hübner, 1809.

136. EUMÆUS ATALA ATALA (Poey)

Eumenia atala Poey, 1832.

Eumæus atala: Gundlach, 1881: 80; Holland, 1916: 494; Showalter, 1927: 111; Bates, 1935: 189; Dethier, 1941: 75; Bruner, Scaramuzza & Otero, 1945: 63, 111, 188.

Eumæus atala atala: Comstock & Huntington, 1943: 59.

Illustrations.—Poey: 3 figs. not numbered; Showalter, 1927: pl. 7, f. 2; Dethier, 1941: pl. V, f. 4, (head of larva), pl. VI, f. 9, 10, (Clypeus of larva); Bruner, Scaramuzza & Otero, 1945: pl. VI, f. 6, (larva), pl. VIII, f. 1.

Genus *Thecla* Fabricius

Thecla Fabricius, 1807.

Genotype: *Papilio betulæ* Linnæus, 1758.

The species *Thecla favonius* (= *Strymon favonius*), included by Bates (1935: 193) and by Holland (1916: 495), and *Thecla tollus* (= *Strymon tollus*) noted by Bates on page 237 as doubtful, are not found in Cuba.

137. THECLA CŒLEBS Herrich-Schäffer

Thecla cœlebs Herrich-Schäffer, 1862; Gundlach, 1881: 74; Comstock & Huntington, 1943: 61; Comstock, 1944: 485; S. L. de la Torre, 1949c: 187.

Strymon cœlebs: Bates, 1935: 192; Bruner, Scaramuzza & Otero, 1945: 176.

Strymon tollus: Bates, 1935: 237.

138. THECLA MARTIALIS Herrich-Schäffer

Thecla martialis Herrich-Schäffer, 1864; Gundlach, 1881: 76; Holland, 1916: 495; id., 1942: 236; Showalter, 1927: 111; Comstock &

Huntington, 1943: 68; Avinoff & Shoumatoff, 1946: 285; S. L. de la Torre, 1949c: 187.

Strymon martialis: Bates, 1935: 192.

Illustration.—Showalter, 1927: pl. VII, f. 11.

139. THECLA ACIS CASASI Comstock & Huntington

Thecla acis casasi Comstock & Huntington, 1943: 66; S. L. de la Torre, 1949c: 187.

Strymon acis: Bates, 1935: 192.

This subspecies was described by Comstock and Huntington in 1943 (See Ann. N. Y. Acad. Sci., vol. XLV, p. 66).

Illustration.—Comstock & Huntington, 1943: pl. I, f. 1.

140. THECLA SIMÆTHIS SIMÆTHIS (Drury)

Papilio simæthis Drury, 1770.

Thecla simæthis: Gundlach, 1881: 79; Hoffman, 1940c: 716; Holland, 1942: 232.

Strymon simæthis: Bates, 1935: 193; Hall, 1936: 277.

Thecla simæthis simæthis: Berger, 1939: 202; Comstock & Huntington, 1943: 73; Comstock, 1944: 488; Beatty, 1944: 157; S. L. de la Torre, 1949c: 187.

Illustrations.—Comstock & Huntington, 1943: pl. I, f. 6; Comstock, 1944: pl. 9, f. 12.

141. THECLA MÆSITES MÆSITES Herrich-Schäffer

Thecla mæsites Herrich-Schäffer, 1864; Gundlach, 1881: 80.

Strymon mæsites: Bates, 1935: 194; Clench, 1941: 1.

Thecla mæsites mæsites: Comstock & Huntington, 1943: 72; Comstock, 1944: 487; S. L. de la Torre, 1949c: 187.

Illustration.—Comstock, 1944: pl. 9, f. 6.

142. THECLA CELIDA CELIDA Lucas

Thecla celida Lucas, 1857; Gundlach, 1881: 79.

Strymon celida: Bates, 1935: 194.

Thecla celida celida: Comstock & Huntington, 1943: 75; Comstock, 1944: 489; S. L. de la Torre, 1949c: 187.

143. THECLA COLUMELLA CYBIRA Hewitson

Thecla cybira Hewitson, 1874; Gundlach, 1881: 77.

Thecla columella: Holland, 1916: 495.

Strymon columella: Bates, 1935: 194 (in part).

Thecla columella cybira: Comstock & Huntington, 1943: 81; Avinoff & Shoumatoff, 1946: 285; S. L. de la Torre, 1949c: 187.

Illustrations.—Bates, 1935: f. 15, (venation); Comstock & Huntington, 1943: pl. I, f. 15.

144. THECLA LIMENIA Hewitson

Thecla limenia Hewitson, 1868; Gundlach, 1881: 77; Comstock & Huntington, 1943: 86; Comstock, 1944: 491; Avinoff & Shoumatoff, 1946: 285; S. L. de la Torre, 1949: 65; id. 1949c: 187.

Strymon columella: Bates, 1935: 194 (in part).

Illustration.—Comstock, 1944: pl. 9, f. 8.

145. THECLA ANGELIA ANGELIA Hewitson

Thecla angelia Hewitson, 1874; Gundlach, 1881: 78.

Strymon angelia: Bates, 1935: 195.

Strymon favonius: Bates, 1935: 193.

Thecla angelia angelia: Comstock & Huntington, 1943: 68; Comstock, 1944: 487; S. L. de la Torre, 1949c: 187.

146. THECLA BAZOCHII GUNDLACHIANUS (Bates)

Strymon gundlachianus Bates, 1935: 195.

Thecla sp.: Gundlach, 1881: 441.

Thecla bazochii gundlachianus: Comstock & Huntington, 1943: 89; S. L. de la Torre, 1949c: 187.

Subfamily *Plebejinæ*

Genus *Hemiargus* Hübner

Hemiargus Hübner, 1818.

Genotype: *Hemiargus antibubastus* Hübner, 1818 (= *Hemiargus hanno antibubastus* Hübner).

147. HEMIARGUS HANNO FILENUS (Poey)

Polyommatus filenus Poey, 1832.

Cupido hanno: Gundlach, 1881: 71.

Lycaena hanno: Holland, 1916: 495.

Hemiargus filenus: Bates, 1935: 196; Dethier, 1940: 24.

Hemiargus hanno filenus: Comstock & Huntington, 1943: 108; Comstock, 1944: 498.

Illustrations.—Poey, 1832: 3 figs. not numbered; Bates, 1935: f. 16, (venation).

148. HEMIARGUS AMMON AMMON (Lucas)

Lycaena ammon Lucas, 1857; Holland, 1916: 495.

Cupido ammon: Gudlach, 1881: 72.

Hemiargus ammon: Bates, 1935: 197; Clench, 1941b: 407; Bruner, Scaramuzza & Otero, 1945: 24.

Hemiargus ammon ammon: Comstock & Huntington, 1943: 95; Comstock, 1944: 495.

Illustration.—Comstock & Huntington, 1943: pl. 1, f. 22.

Genus *Brephidium* Scudder

Brephidium Scudder, 1876.

Genotype: *Lycæna exilis* Boisduval, 1852.

149. BREPHIDIUM EXILIS ISOPHTHALMA (Herrich-Schäffer)

Lycæna isophthalma Herrich-Schäffer, 1862.

Cupido isophthalma: Gundlach, 1881: 74.

Brephidium isophthalma: Bates, 1935: 198; Avinoff & Shoumatoff, 1946: 287

Brephidium exilis isophthalma: Comstock & Huntington, 1943: 110.

Genus *Leptotes* Scudder

Leptotes Scudder, 1876.

Genotype: *Lycæna theonus* Lucas, 1857.

150. LEPTOTES CASSIUS THEONUS (Lucas)

Lycæna theonus Lucas, 1857; Holland, 1916: 495.

Cupido cassius: Gundlach, 1881: 73.

Leptotes cassius: Bruner, 1935: 41.

Leptotes theonus: Bates, 1935: 198; Bruner, Scaramuzza & Otero, 1945: 93, 135.

Lycaena theona: Holland, 1942: 272.

Leptotus cassius theonus: Clench, 1942: 244; Comstock & Huntington, 1943: 92; Comstock, 1944: 493; Avinoff & Shoumatoff, 1946: 286.

Illustrations.—Bruner, 1935: pl. 2, f. 6; Comstock & Huntington, 1943: pl. 1, f. 26, 27; Comstock, 1944; text fig. 15, (venation), pl. 9, f. 16.

Superfamily HESPERIOIDEA

Family HESPERIIDÆ

Subfamily PYRGINÆ

Genus *Phocides* Hübner

Phocides Hübner, 1819: 103.

Erycides Hübner, 1819: 110.

Dysenius Scudder, 1872: 67.

Genotype: *Phocides cruentus* Hübner, 1819 (= *Papilio palemon* Cramer, 1777; homonym of *Papilio palaemon* Pallas, 1771).

151. PHOCIDES BATABANO BATABANO (Lucas)

Eudamus batabano Lucas, 1857.

Erycides batabano: Gundlach, 1881: 171.

Phocides batabano: Holland, 1916: 501; id., 1942: 327; Sinner & Ramsden, 1923: 308.

Phocides batabano batabano: Bates, 1935: 202.

Illustrations.—Holland, 1942: text fig. 163, (neurulation), pl. XLIX, f. 1.

Genus *Chioides* Lindsey

Chioides Lindsey, 1921.

Genotype: *Eudamus albofasciatus* Hewitson, 1867.

152. CHIOIDES MARMOROSA (Herrich-Schäffer)

Goniurus marmorosa Herrich-Schäffer, 1865; Gundlach, 1881: 171; Bates, 1935: 203.

Eudamus marmorosa: Skinner & Ramsden, 1923: 308.

Chioides marmorosa: S. L. de la Torre, 1949c: 182.

Genus *Urbanus* Hübner

Urbanus Hübner, 1807.

Goniurus Hübner, 1819.

Eudamus Swainson, 1831.

Genotype: *Papilio proteus* Linnæus, 1758.

153. URBANUS DORANTES SANTIAGO (Lucas)

Eudamus santiago Lucas, 1857; Holland, 1916: 500; Skinner & Ramsden, 1923: 308.

Goniurus santiago: Gundlach, 1881: 170.

Goniurus dorantes santiago: Bates, 1935: 204.

Goniurus dorantes: Dethier, 1942: 4.

Urbanus dorantes santiago: Comstock, 1944: 547; S. L. de la Torre, 1949c: 181.

Illustration.—Holland, 1916: pl. 31, f. 6.

154. URBANUS PROTEUS (Linnæus)

Papilio proteus Linnæus, 1758.

Goniurus proteus: Gundlach, 1881: 169; Showalter, 1927: 113; Clark, 1932: 252; Fazzini, 1934: 59; Bates, 1935: 204; Bruner, 1935: 40; d'Almeida, 1944c: 50.

Eudamus proteus: Holland, 1916: 500; id., 1942: 331; Skinner & Ramsden, 1923: 308; J. H. Comstock & A. B. Comstock, 1936: 292.

Goniurus (Eudamus) proteus: Hoffmann, 1933: 242.

Urbanus proteus proteides: Hall, 1936: 277.

Eudamus proteus proteus: Berger, 1939: 203.

Urbanus proteus proteus: Schweizer & Webster Kay, 1941: 20.

Urbanus proteus: Hoffmann, 1941: 242; Comstock, 1944: 545; Beatty, 1944: 158; Bruner, Scaramuzza & Otero, 1945: 132, 136; Bell, 1946: 78; J. A. Ramos, 1946: 54; Avinoff & Shoumatoff, 1946: 287; S. L. de la Torre, 1949c: 181; Miles Moss, 1949: 40; Munroe, 1951: 55.

Illustrations.—Showalter, 1927: pl. 8, f. 10; Clark, 1932: pl. 50, f. 1, 2; Fazzini, 1934: p. 59, fig. not numbered; Bruner, 1935: pl. 2, f. 8; J. H. Comstock & A. B. Comstock, 1936: pl. XLIV, f. 1; Holland, 1942: pl. II, f. 34, pl. VI, f. 23, pl. XLV, f. 6; d'Almeida, 1944c: pl. 3, f. 4, (larva); Miles Moss, 1949: pl. III, f. 12, (larva).

Genus *Proteides* Hübner

Proteides Hübner, 1819: 104.

Epargyreus Hübner, 1819: 105.

Dicranaspis Mabille, 1872.

Genotype: *Papilio mercurius* Fabricius, 1787.

155. PROTEIDES (EPARGYREUS) EXADEUS MAYSI (Lucas)

Eudamus maysi Lucas, 1857.

Goniloba maysi: Gundlach, 1881: 156.

Epargyreus maysi: Holland, 1916: 501; Skinner & Ramsden, 1923: 309.

Proteides exadeus maysi: Bates, 1935: 205.

Proteides exadeus: Bell, 1946: 88.

Proteides (Epargyreus) exadeus maysi: S. L. de la Torre, 1952: 65.

Mr. Bell does not consider *maysi* a subspecies of *exadeus* and thinks that *maysi* and *exadeus* should be studied separately.

Illustrations.—Holland, 1916: pl. 31, f. 11, 12.

156. PROTEIDES (PROTEIDES) MERCURIUS SANANTONIO (Lucas)

Eudamus sanantonio Lucas, 1857.

Goniloba san antonio: Gundlach, 1881: 156.

Proteides idas var. *san antonio*: Holland, 1916: 502.

Proteides san-antonio: Skinner & Ramsden, 1923: 309.

Proteides mercurius sanantonio: Bates, 1935: 206; Comstock, 1944: 544; Bell & Comstock, 1948: 3.

Proteides (Proteides) mercurius sanantonio: S. L. de la Torre, 1952: 65.

Illustrations.—Holland, 1916: pl. 31, f. 1, 2.

Genus *Aguna* Williams

Aguna Williams, 1927.

Genotype: *Eudamus camagura* Williams, 1926.

157. AGUNA ASANDER (Hewitson)

Eudamus asander Hewitson, 1867.

Epargyreus asander: Holland, 1916: 502; Skinner & Ramsden, 1923: 309.

Proteides asander: Bates, 1935: 206; Avinoff & Shoumatoff, 1946: 288.

Aguna asander: Hoffmann, 1941: 244; Bell, 1946: 83; Freeman, 1949: 41; S. L. de la Torre, 1952: 65.

Genus *Polygonus* Hübner

Polygonus Hübner, 1825.

Acolastus Scudder, 1872; preoccupied in Coleoptera.

Nemnius Kirby, 1902.

Genotype: *Polygonus lividus* Hübner, 1825.

158. POLYGONUS LIVIDUS SAVIGNY (Latreille)

Hesperia savigny Latreille, 1822.

Goniloba amyntas: Gundlach, 1881: 159; id., 1891: 458.

Nemnius amyntas: Holland, 1916: 502; Skinner & Ramsden, 1923: 309.

Acolastus amyntas: Riley, 1926: 233; Hall, 1936: 278.

Polygonus lividus: Bates, 1935: 207; Dethier, 1942: 5; Beatty, 1944:

158; Bell, 1946: 89; Bell & Comstock, 1948: 5.

Polygonus amyntas: Holland, 1942: 328; Avinoff & Shoumatoff, 1946: 289.

Polygonus lividus savigny: Comstock, 1944: 542.

Illustrations.—Bates, 1935: f. 17a, (antenna), f. 18, (venation); Holland, 1942: text fig. 165, (neurulation), pl. XLIX, f. 5; Bell & Comstock, 1948: f. 2, (genital).

Genus *Astraptes* Hübner

Astraptes Hübner, 1819: 103.

Telegonus Hübner, 1819: 104.

Creteus Westwood, 1852.

Euthymeles Mabilie, 1878.

Genotype: *Papilio narcosius* Stoll, 1791 (= *Papilio aulestes* Cramer, 1780; homonym of *Papilio aulestes* Cramer, 1777).

159. ASTRAPTES TALUS (Cramer)

Papilio talus Cramer, 1779.

Goniloba talus: Gundlach, 1881: 158.

Goniurus talus: Skinner & Ramsden, 1923: 309.

Telegonus talus: Bates, 1935: 208; Bruner, Scaramuzza & Otero, 1945: 27, 85, 177.

Astraptes talus: Hoffmann, 1941: 246; Comstock, 1944: 549; Bell, 1946: 85; S. L. de la Torre, 1952: 67.

160. ASTRAPTES ANAPHUS ANAUSIS (Godman & Salvin)

Telegonus anausis Godman & Salvin, 1896; Avinoff & Shoumatoff, 1941: 317.

Telegonus alpistus cubana: Skinner & Ramsden, 1923: 310.

- Telegonus anaphus* race *cubana*: Williams & Bell, 1934: 19.
Telegonus anaphus cubanus: Bates, 1935: 210.
Astraptus anaphus anausis: Berger, 1939: 205; Comstock, 1944: 548;
S. L. de la Torre, 1952: 67.
Telegonus roysi Avinoff & Shoumatoff, 1941: 316.

161. ASTRAPTES CRETELLUS (Herrich-Schäffer)

- Eudamus cretellus* Herrich-Schäffer, 1869.
Aethilla jariba Butler, 1870.
Goniloba cassander: Gundlach, 1881: 155.
Telegonus geronæ Holland, 1916: 503.
Telegonus jariba: Skinner & Ramsden, 1923: 311; Williams & Bell, 1933: 71.
Telegonus jariba jariba: Bates, 1935: 210.
Telegonus cretellus: Williams & Bell, 1934: 22.
Astraptus cretellus: S. L. de la Torre, 1952: 67.
Illustration.—Williams & Bell, 1934: pl. I, f. 10, (genital).

162. ASTRAPTES XAGUA (Lucas)

- Eudamus xagua* Lucas, 1857.
Goniloba jagua: Gundlach, 1881: 157.
Telegonus xagua: Skinner & Ramsden, 1923: 310; Bates, 1935: 211.
Astraptus xagua: S. L. de la Torre, 1952: 67.

163. ASTRAPTES HABANA HABANA (Lucas)

- Eudamus habana* Lucas, 1857.
Goniloba habana: Gundlach, 1881: 158; id., 1891: 457.
Telegonus habana: Holland, 1916: 503; Skinner & Ramsden, 1923: 310; Williams & Bell, 1933: 79.
Telegonus alardus habana: Bates, 1935: 211; Bruner, Scaramuzza & Otero, 1945: 72.
Astraptus habana habana: S. L. de la Torre, 1952: 67.

Mr. E. Bell annotates the following distribution for *Astraptus alardus*: Mexico, Central America, South America to Argentina, not pointing the Antilles.

Illustration.—Bates, 1935: f. 19, (venation).

Genus *Cabares* Godman & Salvin

Cabares Godman & Salvin, 1894.

Genotype: *Thanaos potrillo* Lucas, 1857.

164. CABARES POTRILLO POTRILLO (Lucas)

Thanaos potrillo Lucas, 1857.

Nisoniades potrerillo: Gundlach, 1881: 141; id., 1891: 456.

Cabares potrillo: Skinner & Ramsden, 1923: 313; Dethier, 1940: 24; Hoffmann, 1941: 251; Holland, 1942: 338; Bell, 1946: 95; Avinoff & Shoumatoff, 1946: 291.

Cabares potrillo potrillo: Bates, 1935: 212.

Illustrations.—Dethier, 1940: pl. III, f. 7, 8, (micropyle rosette of egg).

Genus *Echelatus* Godman & Salvin

Echelatus Godman & Salvin, 1894.

Genotype: *Anastrus varius* Mabilie, 1883.

165. ECHELATUS SEMPITERNUS DILLONI Bell & Comstock

Echelatus sempiternus dilloni Bell & Comstock, 1948: 8; S. L. de la Torre, 1950: 72; id., 1952: 63.

Pellicia simplicior Möschler, 1876 (female).

Echelatus simplicior: Avinoff & Shoumatoff, 1946: 290.

Möschler, in his description of *simplicior*, stated that his type material was a male from Paramaribo, Dutch Guiana, and a female from Cuba. As he did not designate either as the type, Bell and Comstock (1948: 9) select the male from Paramaribo as the lectotype of *simplicior*, and suppose that the female, which Möschler possessed, from Cuba apparently belongs to the Antillean subspecies, *dilloni*.

Illustrations.—Bell & Comstock, 1948: f. 3, 4, 6, 7, (genital).

Genus *Achlyodes* Hübner

Achlyodes Hübner, 1819.

Eantis Boisduval, 1836.

Sebaldia Mabilie, 1903.

Genotype: *Papilio busirus* Cramer, 1779.

166. ACHLYODES PAPINIANUS PAPINIANUS (Poey)

Hesperia papinianus Poey, 1832.

Achlyodes papinianus: Gundlach, 1881: 145; id., 1891: 457.

Eantis papinianus: Skinner & Ramsden, 1923: 314.

Achlyodes thraso papinianus: Bates, 1935: 212; Bruner, Scaramuzza & Otero, 1945: 50, 188.

Achlyodes papinianus papinianus: Comstock, 1944: 554; Bell & Comstock, 1948: 9.

Achlyodes thraso: Avinoff & Shoumatoff, 1946: 291.

Mr. Bell annotates the following distribution for *Achlyodes thraso*: Texas and Mexico in North America, Central America, and in South America from Venezuela to Brazil; not mentioning the Antilles (See "A Catalogue of the Hesperioidea of Venezuela": 1946: 119).

Illustrations.—Poey, 1832: 7 figs. not numbered; Bates, 1935: f. 17b, (antenna), f. 20, (venation); Holland, 1942: text fig. 175, (neuration of *Eantis thraso*); Comstock, 1944: pl. 2, f. 2, (genital of *A. thraso*).

Genus *Ephyriades* Hübner

Ephyriades Hübner, 1819.

Oileides Hübner, 1825.

Brachycoryne Mabille, 1883.

Melanthes Mabille, 1904.

Genotype: *Papilio arcas* Drury, 1770 (= *Papilio otreus* Cramer, 1780).

167. EPHYRIADES BRUNNEA BRUNNEA (Herrich-Schäffer)

Nisoniades brunnea Herrich-Schäffer, 1864; Gundlach, 1881: 142.

Melanthes otreus var. *brunnea*: Holland, 1916: 504.

Ephyriades otreus: Skinner & Ramsden, 1923: 312.

Ephyriades zephodes zephodes: Bates, 1935: 215; Bruner, Scaramuzza & Otero, 1945: 105.

Melanthes brunnea: Holland, 1942: 348.

Ephyriades brunnea: Comstock, 1944: 556.

Ephyriades brunnea brunnea: Bell & Comstock, 1948: 17; S. L. de la Torre, 1949c: 183.

Illustrations.—Holland, 1916: pl. 31, f. 3-5, Comstock, 1944: pl. 4, f. 1, 2, (genital).

168. EPHYRIADES ARCAS ARCAS (Drury)

Papilio arcas Drury, 1773.

Antigonus arcas: Gundlach, 1881: 147.

Brachycorene arcas: Holland, 1916: 506.

Brachycoryne arcas: Skinner & Ramsden, 1923: 312.

Ephyriades arcas: Bates, 1935: 215; Comstock, 1944: 554; Beatty, 1944: 158; Bruner, Scaramuzza & Otero, 1945: 70; Bell, 1946: 132; J. A. Ramos, 1946: 54; Bell & Comstock, 1948: 17.

The subspecies that inhabits Jamaica is *Ephyriades arcas jamaicensis* Moeschler, according to Avinoff and Shoumatoff (See Ann. Carnegie Museum, vol. XXX, p. 290).

Illustrations.—Comstock, 1944: pl. 3, f. 1, 2, (genital), pl. 11, f. 6.

169. EPHYRIADES CUBENSIS Skinner

Ephyriades cubensis Skinner, 1913; Skinner & Ramsden, 1923: 312; Bates, 1935: 216.

Genus *Burca* Bell & Comstock

Burca Bell & Comstock, 1948: 10.

Genotype: *Nisoniades concolor* Herrich-Schäffer, 1864.

This genus was established by Bell and Comstock in 1948 (See Am. Mus. Novitates, No. 1379, p. 10).

170. BURCA CONCOLOR (Herrich-Schäffer)

Nisoniades concolor Herrich-Schäffer, 1864; Gundlach, 1881: 144.

Bolla concolor: Skinner & Ramsden, 1923: 313.

Pholisora concolor: Bates, 1935: 216; Bruner, Scaramuzza & Otero, 1945: 93.

Burca concolor: Bell & Comstock, 1948: 10; S. L. de la Torre, 1949c: 182.

Illustration.—Bell & Comstock, 1948: f. 13, (genital).

171. BURCA BRACO (Herrich-Schäffer)

Nisoniades braco Herrich-Schäffer, 1864; Gundlach, 1881: 141.

Bolla braco: Skinner & Ramsden, 1923: 314.

Pholisora braco: Bates, 1935: 216; Bell, 1946: 185.

Burca braco: Bell & Comstock, 1948: 10; S. L. de la Torre, 1949c: 182.

Illustration.—Bell & Comstock, 1948: f. 11, (genital).

Genus *Chiomara* Godman & Salvin

Chiomara Godman & Salvin, 1899.

Genotype: *Achlyodes mithrax* Möschler, 1878.

172. CHIOMARA MITHRAX (Möschler)

Achlyodes mithrax Möschler, 1878.

Cyclogypsa gundlachi Skinner & Ramsden, 1923: 314.

Chiomara mithrax: Bates, 1935: 217; Hoffmann, 1941: 264; Bell, 1946: 131; Miles Moss, 1949: 67.

Illustrations.—Miles Moss, 1949: pl. V, f. 11, (head of larva), f. 14, (larva).

Genus *Erynnis* Schrank

Erynnis Schrank, 1801.

Thymele Fabricius, 1807.

Thymale Oken, 1815.

Astycus Hübner, 1822.

Thanaos Boisduval, 1834.

Genotype: *Papilio tages* Linnaeus, 1758.

173. ERYNNIS GESTA (Herrich-Schäffer)

Thanaos gesta Herrich-Schäffer, 1863; Holland, 1942: 349.

Nisoniades gesta: Gundlach, 1881: 145; id., 1891: 456.

Chiomara gesta: Skinner & Ramsden, 1923: 315; Avinoff & Shoumatoff, 1946: 291; Miles Moss, 1949: 67.

Erynnis gesta: Bates, 1935: 218; Hoffmann, 1941: 264; Bruner, Scaramuzza & Otero, 1945: 93; Bell, 1946: 133.

Erynnis gesta gesta: Schweizer & Webster, 1941: 22.

Illustration.—Holland, 1942: pl. LI, f. 1, 2.

174. ERYNNIS ZARUCCO (Lucas)

Thanaos zarucco Lucas, 1857; Skinner & Ramsden, 1923: 314.

Nisoniades jaruco: Gundlach, 1881: 143.

Erynnis zarucco: Bates, 1935: 218; Comstock, 1944: 556.

Illustration.—Bates, 1935: f. 21, (venation).

Genus *Pyrgus* Hübner

Pyrgus Hübner, 1819.

Syrictus Boisduval, 1834.

Scelotrix Rambur, 1858.

Genotype: *Papilio malvae* Linnaeus, 1758 (= *Papilio alveolus* Hbn., 1802).

175. PYRGUS SYRICHTUS (Fabricius)

Papilio syrichtus Fabricius, 1775.

Pyrgus syrichtus: Gundlach, 1881: 139; Williams & Bell, 1930: 135; Hoffmann, 1933: 244; id., 1936: 262; id., 1941: 260; Bates, 1935: 220; Hall, 1936: 278; Dethier, 1940: 24; id., 1942: 6; Comstock, 1944: 550; Beatty, 1944: 158; J. A. Ramos, 1946: 54; Avinoff & Shoumatoff, 1946: 291; Miles Moss, 1949: 68. *Hesperia syrichtus* Holland, 1916: 506; id., 1942: 341; Skinner & Ramsden, 1923: 315.

Hesperia syrichtus syrichtus: Berger, 1939: 205.

Illustrations.—Williams & Bell, 1930: pl. VIII, f. 1, (genital), f. 2, (costal portion of hindwing); Dethier, 1940: pl. III, f. 4, (branched hair); Holland, 1942: pl. L, f. 16, 17; Comstock, 1944: pl. 12, f. 4; Miles Moss, 1949: pl. V, f. 12, (larva).

176. PYRGUS CRISIA CRISIA Herrich-Schäffer

Pyrgus crisia Herrich-Schäffer, 1864; Gundlach, 1881: 140; Bates, 1935: 220.

Hesperia crisia: Skinner & Ramsden, 1923: 315.

Pyrgus crisia crisia: Comstock, 1944: 551.

Subfamily HESPERIINÆ

Genus *Ancyloxypha* Felder

Ancyloxypha Felder, 1862.

Genotype: *Hesperia numitor* Fabricius, 1793.

177. ANCYLOXYPHA NANUS (Herrich-Schäffer)

Thymelicus nanus Herrich-Schäffer, 1865; Gundlach, 1881: 148.

Ancyloxypha nanus: Holland, 1916: 506; Skinner & Ramsden, 1923: 316; Bates, 1935: 220.

Genus *Thymelicus* Hübner

Thymelicus Hübner, 1819.

Adopæa Billberg, 1820.

Thymelinus Stephens, 1835.

Pelion Kirby, 1858.

Genotype: *Papilio acteon* Rottemberg, 1775.

178. THYMELICUS MAGDALIA (Herrich-Schäffer)

Pamphila magdalia Herrich-Schäffer, 1863; Gundlach, 1881: 153.

Adopaea magdalia: Skinner & Ramsden, 1923: 316; Bates, 1935: 221.

Thymelicus magdalia: S. L. de la Torre, 1949c: 188.

Genus *Hylephila* Billberg

Hylephila Billberg, 1820.

Euthymus Scudder, 1872; preoccupied in Hymenoptera.

Genotype: *Papilio phyleus* Drury, 1770.

179. HYLEPHILA PHYLEUS (Drury)

Papilio phyleus Drury, 1770.

Pamphila philæus: Gundlach, 1881: 150 and XIX (Fe de errata).

Hylephila phylæus: Holland, 1916: 507; id., 1942: 377; Skinner & Ramsden, 1923: 316; Clark, 1932: 220; Hall, 1936: 278; Field, 1938b: 247; Hoffmann, 1941: 267; Schweizer & Webster, 1941: 22; Dethier, 1942b: 167; Bell, 1946: 137; Garth, 1950: 41.

Hylephila phyleus: Bates, 1935: 221; Comstock, 1944: 557; Avinoff & Shoumatoff, 1946: 292; Miles Moss, 1949: 69; Munroe, 1951: 55.

Hylephila phylæus phylæus: Berger, 1939: 206.

Illustrations.—Clark, 1932: pl. 53, f. 13, 14; Holland, 1942: pl. VI, f. 39, (chrysalis), pl. XLVI, f. 18, 19, pl. XLVII, f. 40; Comstock, 1944: pl. II, f. 9.

Genus *Atalopedes* Scudder

Atalopedes Scudder, 1872: 78.

Pansydia Scudder, 1872: 81.

Genotype: *Hesperia campestris* Boisduval, 1852 (= *Hesperia huron* Edwards, 1863).

180. ATALOPEDES MESOGRAMMA MESOGRAMMA (Godart)

Hesperia mesogramma Godart, 1822 (See Brown, 1941: 131); Poey, 1832.

Pamphila alameda: Gundlach, 1881: 148.

Atalopedes cunaxa: Holland, 1916: 507.

Atalopedes mesogramma: Skinner & Ramsden, 1923: 316; Riley, 1926: 239; Bates, 1935: 222.

Atalopedes mesogramma mesogramma: Comstock, 1944: 560; Bell & Comstock, 1948: 21.

Illustrations.—Poey, 1832: 3 figs. not numbered; Holland, 1916: pl. 31, f. 14; Bates, 1935: f. 17c, (antenna), f. 22, (venation).

Genus *Polites* Scudder

Polites Scudder, 1872: 78.

Hedone Scudder, 1872: 79.

Limochores Scudder, 1872: 80.

Pyrrhosidia Scudder, 1874.

Genotype: *Hesperia peckius* Kirby, 1837.

181. *POLITES BARACOA* (Lucas)

Hesperia baracoa Lucas, 1857.

Pamphila baracoa: Gundlach, 1881: 152.

Limochores baracoa: Holland, 1916: 507.

Polites baracoa: Skinner & Ramsden, 1923: 316; Bates, 1935: 224; Holland, 1942: 381; Dethier, 1942b: 167.

Illustration.—Holland, 1916: pl. 31, f. 15.

Genus *Wallengrenia* Berg

Wallengrenia Berg, 1897.

Catia Godman, 1900.

Genotype: *Hesperia premnas* Wallengren, 1860.

182. *WALLENGRENIA OTHO MISERA* (Lucas)

Hesperia misera Lucas, 1857.

Pamphila misera: Gundlach, 1881: 153.

Catia misera: Holland, 1916: 507; Skinner & Ramsden, 1923: 317; Bates, 1935: 224; Dethier, 1942b: 167.

Wallengrenia otho misera: Watson, 1937: 3; Comstock, 1944: 562; S. L. de la Torre, 1949c: 189.

Genus *Atrytone* Scudder

Atrytone Scudder, 1872: 77.

Euphyes Scudder, 1872: 80.

Paratrytone Godman & Salvin, 1900.

Anatrytone Dyar, 1905.

Genotype: *Hesperia arogos* Boisduval & Leconte, 1833 (= *Hesperia iowa* Scudder, 1872).

183. ATRYTONE SINGULARIS SINGULARIS (Herrich-Schäffer)

Goniloba singularis Herrich-Schäffer, 1865; Gundlach, 1881: 168; Skinner & Ramsden, 1923: 318; Bates, 1935: 238.

Atrytone singularis: Bell, 1947b: 2.

Atrytone singularis singularis: S. L. de la Torre, 1949: 65; id., 1949c: 180.

Bates cites this species as doubtful, but Mr. Pastor Alayo collected many specimens in Oriente province.

Illustration.—Bell, 1947: f. 1, (genital).

184. ATRYTONE CORNELIUS (Godart)

Hesperia cornelius Godart, 1822 (See Brown, 1941: 131).

Goniloba cornelius: Gundlach, 1881: 167.

Amblyscirtes insulæ-pinorum Holland, 1916: 508.

Lerema cornelius: Skinner & Ramsden, 1923: 317; Bates, 1935: 226; Dethier, 1942b: 167; id., 1942c: 177, 178.

Euphyes cornelius: Riley, 1926: 238.

Atrytone cornelius: S. L. de la Torre, 1949c: 181.

Illustrations.—Holland, 1916: pl. 31, f. 7, 8; Dethier, 1942c: pl. 27, f. 1-3, (head of larva).

Genus *Choranthus* Scudder

Choranthus Scudder, 1872.

Genotype: *Hesperia radians* Lucas, 1857.

185. CHORANTHUS RADIANS (Lucas)

Hesperia radians Lucas, 1857.

Pamphila radians: Gundlach, 1881: 151.

Choranthus radians: Skinner & Ramsden, 1923: 319; Holland, 1942: 370; Comstock, 1944: 565; S. L. de la Torre, 1949c: 182.

Poanes radians: Bates, 1935: 225; Dethier, 1942b: 167.

Illustration.—Holland, 1942: pl. LI, f. 47.

186. CHORANTHUS RADIANS F. AMMONIA (Plötz)

Hesperia ammonia Plötz, 1883.

Choranthus radians f. *ammonia*: Comstock, 1944: 565; S. L. de la Torre, 1949c: 182.

Choranthus radians ammonia: S. L. de la Torre, 1949: 65.

Mr. Pastor Alayo captured several specimens of *ammonia* form in Rancho Mundito, Pinar del Rio province, in June, 1947, which were identified by Mr. Ernest L. Bell.

Genus *Calpodes* Hübner

Calpodes Hübner, 1819.

Genotype: *Papilio ethlius* Stoll, 1784.

187. CALPODES ETHLIUS (Stoll)

Papilio ethlius Stoll, 1784 (See Brown, 1941: 130).

Goniloba ethlius: Gundlach, 1881: 160; id., 1891: 457.

Calpodes ethlius: Skinner & Ramsden, 1923: 319; Showalter, 1927: 113; Clark, 1932: 233; Fazzini, 1934: 58; Bates, 1935: 228; J. H. Comstock & A. B. Comstock, 1936: 285; Hall, 1936: 278; Field, 1938b: 267; Hoffmann, 1941: 273; Dethier, 1942d: 203; Holland, 1942: 399; Comstock, 1944: 567; Beatty, 1944: 158; Bruner, Scaramuzza & Otero, 1945: 27, 109; Avinoff & Shoumatoff, 1946: 294; Bell, 1946: 144; Miles Moss, 1949: 69.

Calpodes ethlius ethlius: Schweizer & Webster, 1941: 24.

Illustrations.—Showalter, 1927: pl. 8, f. 9; Clark, 1932: pl. 50, f. 7, 8; Fazzini, 1934: p. 58, f. not numbered; J. H. Comstock & A. B. Comstock, 1936: pl. XLII, f. 2; Holland, 1942: pl. VI, f. 48, (chrysalis), pl. XLV, f. 3; Miles Moss, 1949: pl. V, f. 4, (larva).

Genus *Panoquina* Hemming

Panoquina Hemming, 1934.

Prenes Scudder, 1872; preoccupied in fishes.

Genotype: *Hesperia panoquin* Scudder, 1863.

188. PANOQUINA SYLVICOLA SYLVICOLA (Herrich-Schäffer)

Goniloba sylvicola Herrich-Schäffer, 1865; Gundlach, 1881: 166.

Prenes nero?: Holland, 1916: 509.

Prenes sylvicola: Skinner & Ramsden, 1923: 320.

Prenes nero sylvicola: Bates, 1935: 229; Dethier, 1942b: 167, 172; Bruner, Scaramuzza & Otero, 1945: 125, 163, 173.

Panoquina sylvicola sylvicola: Watson, 1937: 7; Berger, 1939: 206; Comstock, 1944: 569; S. L. de la Torre, 1949c: 189.

Panoquina sylvicola: Hoffmann, 1941: 273; Dethier, 1942d: 203; Bell, 1946: 145.

Illustrations.—Bates, 1935: f. 23, (venation); Dethier, 1942d: f. 1, (section of a larva).

189. PANOQUINA OCOLA (Edwards)

Hesperia ocola Edwards, 1863.

Prenes ocola: Holland, 1916: 509; id., 1942: 398; Skinner & Ramsden, 1923: 319; Clark, 1932: 233; Bates, 1935: 231.

Panoquina ocola: Field, 1938 b: 269; Hoffmann, 1941: 273; Comstock, 1944: 570; Avinoff & Shoumatoff, 1946: 295; S. L. de la Torre, 1949c: 189.

Calpododes ocola: Schweizer & Webster, 1941: 24.

Illustrations.—Holland, 1942: pl. XLVI, f. 34, pl. LIV, f. 22; Comstock, 1944: pl. 12, f. 5.

190. PANOQUINA PANOQUINOIDES PANOQUINOIDES (Skinner)

Pamphila panoquinoides Skinner, 1891.

Prenes panoquinoides: Skinner & Ramsden, 1923: 319; Bates, 1935: 231; Holland, 1942: 398.

Panoquina panoquinoides panoquinoides: Comstock, 1944: 571; Beatty, 1944: 158; S. L. de la Torre, 1949c: 189.

Illustrations.—Holland, 1942: pl. LIV, f. 23; Comstock, 1944: pl. 12, f. 8.

191. PANOQUINA NYCTELIA COSCINIA (Herrich-Schäffer)

Goniloba coscinia Herrich-Schäffer, 1865.

Goniloba brettus: Gundlach, 1881: 164.

Prenes ares: Skinner & Ramsden, 1923: 320.

Prenes nyctelius coscinia: Bates, 1935: 231; Dethier, 1942b: 167, 170; Bruner, Scaramuzza & Otero, 1945: 123, 125, 163.

Panoquina nyctelius: Schweizer & Webster, 1941: 24; Bell, 1947: 139.

Panoquina vala: Bell, 1946: 145 (See Corrections of errata by the author, 1947: 139).

Panoquina nyctelia: Comstock, 1944: 568; Beatty, 1944: 158; J. A. Ramos, 1946: 54; Avinoff & Shoumatoff, 1946: 295.

Panoquina nyctelia coscinia: L. S. Dillon, 1947: 102; S. L. de la Torre, 1949c: 189.

Illustrations.—Dethier, 1942b: pl. 26, f. 10, 11, (head of larva); Comstock, 1944: pl. 12, f. 1; Bruner, Scaramuzza & Otero, 1945: pl. VIII, f. 2.

192. PANOQUINA NERO CORRUPTA (Herrich-Schäffer)

Goniloba corrupta Herrich-Schäffer, 1865; Gundlach, 1881: 165.

Prenes corrupta: Holland, 1916: 509; Skinner & Ramsden, 1923: 320; Bates, 1935: 232.

Panoquina nero corrupta: Watson, 1937: 6; Comstock, 1944: 569; S. L. de la Torre, 1949c: 189.

Panoquina corrupta: Bell, 1942: 4.

Illustration.—Holland, 1916: pl. 31, f. 13.

Genus *Asbolis* Mabilie

Asbolis Mabilie, 1904.

Genotype: *Eudamus capucinus* Lucas, 1857.

193. ASBOLIS CAPUCINUS (Lucas)

Eudamus capucinus Lucas, 1857.

Goniloba capucinus: Gundlach, 1881: 163.

Asbolis sandarac: Holland, 1916: 509.

Asbolis capucinus: Skinner & Ramsden, 1923: 320; Bates, 1935: 232; Bruner, Scaramuzza & Otero, 1945: 55, 67, 155, 156.

Illustration.—Holland, 1916: pl. 31, f. 9.

Genus *Pyrrhocalles* Mabilie

Pyrrhocalles Mabilie, 1904.

Genotype: *Pamphila antiqua* Herrich-Schäffer, 1863.

194. PYRRHOCALLES ANTIQUA ANTIQUA (Herrich-Schäffer)

Pamphila antiqua Herrich-Schäffer, 1863; Gundlach, 1881: 150.

Phemiades antiqua: Holland, 1916: 509; Munroe, 1951: 55.

Pyrrhocalles antiqua: Skinner & Ramsden, 1923: 318.

Pyrrhocalles orientis: Skinner & Ramsden, 1923: 319.

Phemiades antiqua antiqua: Bates, 1935: 226.

Pyrrhocalles antiqua antiqua: S. L. de la Torre, 1949c: 188.

Illustration.—Holland, 1916: pl. 31, f. 10.

Genus *Lerodea* Scudder

Lerodea Scudder, 1872: 80.

Cymaenes Scudder, 1872: 82.

Megistias Godman, 1900.

Genotype: *Hesperia eufala* Edwards, 1869.

195. LERODEA EUFALA (Edwards)

Hesperia eufala Edwards, 1869.

Cobalus dispersus: Gundlach, 1881: 154.

Lerodea eufala: Holland, 1916: 508; id., 1942: 396; Skinner & Ramsden, 1923: 317; Bates, 1935: 227; Field, 1938b: 266; Schweizer & Webster, 1941: 23; Hoffmann, 1941: 280; Dethier, 1942b: 167; Bruner, Scaramuzza & Otero, 1945: 122; Avinoff & Shoumatoff, 1946: 294.

Illustration.—Holland, 1942: pl. XLVI, f. 33.

196. LERODEA TRIPUNCTA TRIPUNCTA (Herrich-Schäffer)

Cobalus tripunctus Herrich-Schäffer, 1865; Gundlach, 1881: 154.

Lerodea tripuncta: Holland, 1916: 508; Skinner & Ramsden, 1923: 317; Bates, 1935: 228; Comstock, 1944: 566; Beatty, 1944: 158; Bruner, Scaramuzza & Otero, 1945: 19, 163; J. A. Ramos, 1946: 54.

Lerodea tripunctus: Bell, 1941: 6; id., 1946: 166; Dethier, 1942b: 167, 168; id., 1942d: 203.

In Jamaica the subspecies *Lerodea tripuncta jamaca* Schaus is very common according with Avinoff and Shoumatoff (1946: 293).

Illustrations.—Dethier, 1942b: pl. 26, f. 1-9, (head of larva); Comstock, 1944: pl. 12, f. 9.

Genus *Paracarystus* Godman

Paracarystus Godman, 1900.

Genotype: *Cobalus hypargyra* Herrich-Schäffer, 1869.

197. PARACARYSTUS CUBANA (Herrich-Schäffer)

Goniloba cubana Herrich-Schäffer, 1865; Gundlach, 1881: 166; id., 1891: 458.

Paracarystus cubana: Skinner & Ramsden, 1923: 320; Bates, 1935: 235; Bruner, Scaramuzza & Otero, 1945: 28.

Genus *Synapte* Mabilie

Synapte Mabilie, 1904.

Godmania Skinner & Ramsden, 1923; preoccupied in Hemiptera.

Genotype: *Hesperia silius* Latreille, 1822 (= *Carystus salenus* Mabilie).

198. SYNAPTE MALITIOSA (Herrich-Schäffer)

Goniloba malitiosa Herrich-Schäffer, 1865; Gundlach, 1881: 165.

Godmania malitiosa: Skinner & Ramsden, 1923: 321; Bates, 1935: 235; Watson, 1937: 10; Hoffmann, 1941: 281.

Synapte malitiosa: S. L. de la Torre, 1949c: 190; Freeman, 1949: 41.

Genus *Callimormus* Scudder

Callimormus Scudder, 1872.

Genotype: *Callimormus juvenus* Scudder, 1872.

199. CALLIMORMUS RADIOLA (Mabilie)

Ancyloxypha radiola Mabilie, 1878.

Callimormus filata: Skinner & Ramsden, 1923: 321; Bates, 1935: 237.

Callimormus radiola: Bell, 1946: 176.

This species is cited by Bates as doubtful, since there are no new records after the specimens described under the name *Apaustus filata* by Plötz in 1884.

Genus *Thracides* Hübner

Thracides Hübner, 1819.

Genotype: *Papilio phidon* Cramer, 1779.

200. THRACIDES TELEGONUS (Esper)

Papilio Plebeius Urbanus Telegonus Esper, 1780.

Thracides longirostris: Skinner & Ramsden, 1923: 321; Hoffmann, 1933: 245; id., 1941: 283; Miles Moss, 1949: 78.

Thracides telegonus: Bates, 1935: 236.

Illustration.—Miles Moss, 1949: pl. V, f. 3, (larva).

Genus *Perichares* Scudder

Perichares Scudder, 1872.

Genotype: *Hesperia phocion* Fabricius, 1793 (= *Papilio coridon* Fab., 1775).

201. PERICHARES PHOCION PHOCION (Fabricius)

Hesperia (Urbicolae) phocion Fabricius, 1793.

Goniloba corydon: Gundlach, 1881: 162.

Perichares coridon: Skinner & Ramsden, 1923: 320; Hoffmann, 1941: 283; Avinoff & Shoumatoff, 1946: 295.

Perichares corydon: Hoffmann, 1933: 245.

Perichares coridon coridon: Bates, 1935: 233; Dethier, 1942b: 167, 174; Bruner, Scaramuzza & Otero, 1945: 17, 19, 123, 125, 163.

Perichares phocion phocion: Comstock, 1941: 371; id., 1944: 571; Munroe, 1951: 55.

Perichares phocion: Bell, 1946: 183.

The name *Papilio coridon* Fabricius, 1775, is preoccupied by *Papilio coridon* Poda, 1761, in the family *Lycaenidae*, and so we must adopt the name *Hesperia phocion* Fabricius for this species.

Illustrations.—Bates, 1935: f. 24, (venation); Comstock, 1944: text fig. 29, (venation), pl. 11, f. 13.

BIBLIOGRAPHY

- ABBOT, JAMES FRANCIS. 1914. Mimicry in the genus *Limenitis* with especial reference to the "Poulton hypothesis". Washington Univ. Studies. 1, Part I, Number 2: 203-221.
- AGUAYO, CARLOS GUILLERMO. 1934. Reglas Internacionales de la Nomenclatura Zoológica. (Translated into Spanish). Mem. Soc. Cub. Hist. Nat. 8, No. 5: 265-316.
- ALAYO, PASTOR. 1950. Notas sobre la *Colobura dirce* (Linn.). (Lep. Nymphalidæ). Bol. de Hist. Nat., Museo Poey, Univ. Havana. 1, No. 2: 97.
- . 1951. Notas sobre las especies cubanas de *Euremas* del grupo *elathea-palmira*. (Lep. Pieridæ). Bol. de Hist. Nat., Museo Poey, Univ. Havana. 2, No. 5: 7, 8.
- ANONYMOUS. (AGUAYO, CARLOS GUILLERMO?). 1934. Algunos insectos raros cogidos por el Sr. José Cabrera. Mem. Soc. Cub. Hist. Nat. 8, No. 1: 34, and No. 2: 110, (errata).
- AVINOFF, ANDREY & NICHOLAS SHOUMATOFF. 1941. Some new and undescribed Jamaican butterflies. Ann. Carn. Mus. 28: 309-323, pl. 36.
- . 1946. An annotated list of the butterflies of Jamaica. Ann. Carn. Mus. 30: 263-295.
- BATES, MARSTON. 1935. The butterflies of Cuba. Bull. Mus. Comp. Zool., Cambridge, Mass. 78, No. 2: 63-258, text figs. 1-24.
- . 1935b. The Satyrid genus *Calisto*. Occas. Papers. Boston Soc. Nat. Hist. 8: 229-248, f. 1-10.
- . 1936. Notes on Cuban butterflies. Mem. Soc. Cub. Hist. Nat. 9, No. 4: 225-228, 1 fig.
- . 1939. Notes on Cuban butterflies. II. Ibid. 13, No. 1: 1-4.
- BEATTY, HARRY A.. 1944. Fauna of St. Croix, V. I. Journ. Agric. Univ. P. Rico. 28, Nos. 3-4: The Insects of St. Croix, V. I. Lepidoptera. 156-158.
- BEEBE, WILLIAM. 1949. Migration of Papilionidæ at Rancho Grande, North-central Venezuela. Contr. No. 852, Dep. Trop. Research, New York Zool. Soc. 34, No. 14: 119-126, text fig. 1, pl. 1.
- BELL, ERNEST LAYTON. 1930. See Williams, Jr., Roswell C. & E. L. Bell.
- . 1933. Ibid.
- . 1934. Ibid.
- . 1941. New Species of Neotropical Hesperiidæ. (Lep. Rhop.). Am. Mus. Nov. No. 1125, pp. 1-8, 20 figs.
- . 1942. New genera and new species of Neotropical Hesperiidæ. (Lep. Rhop.). Am. Mus. Nov. No. 1205, pp. 1-9, 14 figs.
- . 1946. A catalogue of the Hesperioidea of Venezuela. Bol. Ent. Venezolana. V, Nos. 3-4: 65-203.
- . 1947. Corrections of errata in "A catalogue of the Hesperioidea of Venezuela". Ibid. VI, Nos. 2-3 and 4: 137-141.
- . 1947b. *Atrytone singularis* Herrich-Schäffer and the subspecies *insolata* Butler. (Lep. Rhop.). Am. Mus. Nov. No. 1359, pp. 1-5, f. 1.

- BELL, ERNEST L. & WILLIAM P. COMSTOCK. 1941. The synonymy of *Papilio coridon* Poda, *Papilio phocion* Fabricius and others. Journ. N. Y. Ent. Soc. 49, No. 4: 371-374.
- . 1948. A new genus and some new species and subspecies of American Hesperiidæ. (Lep. Rhop.). Am. Mus. Nov. No. 1379, pp. 1-23, 16 figs.
- BERGER, L. 1939. Resultats scientifiques des croisières du navire-école Belge "Mercator". Lepidoptères - Rhopalocères. Mem. Mus. Roy. Hist. Nat. Belgique. 19, No. 15: 181-207.
- BRELAND, OSMOND P. 1948. Two migrations of the snout butterfly, *Libytheana bachmanii larvata* (Strecker). (Lep.: *Libytheidæ*). Ent. News. 59, No. 5: 128-131.
- BROWN, FREDERICK MARTIN. 1929. A revision of the genus *Phoebis* (Lep.). Am. Mus. Nov. No. 368, pp. 1-22, 37 figs.
- . 1941. Some notes on four primary reference works for Lepidoptera. Ann. Ent. Soc. America. 34, No. 1: 127-138.
- . 1942. Notes on Ecuadorian butterflies. II. *Papilio*. Journ. N. Y. Ent. Soc. 50, No. 2: 123-134.
- . 1943. Notes on Mexican butterflies, I. Papilionidæ. Journ. N. Y. Ent. Soc. 51: 161-178.
- . 1944. Notes on Mexican butterflies. II. Pieridæ. Ibid. 52: 99-119.
- . 1944b. Notes on Mexican butterflies. III. Danaidæ. Ibid. 52: 237-246.
- . 1944c. Notes on Mexican butterflies. IV. Nymphalidæ-I. Ibid. 52: 343-360.
- . 1945. Notes on Mexican butterflies. V. Nymphalidæ-II. Ibid. 53: 31-46.
- . 1950. The American Papilios. The Lepidopterists' News. IV, Nos. 4, 5: 39-41, and Nos. 6, 7: 63-67.
- BROWN, F. MARTIN & WM. P. COMSTOCK. 1952. Some Biometrics of *Heliconius charithonius* (Linnæus). (Lep. Nymphalidæ). Am. Mus. Nov. No. 1574, pp. 1-53, 8 figs.
- BRUNER BOYDEN, STEPHEN COLE. 1935. La maruca y otros insectos de las Habas de Lima. Bol. 56. Est. Exp. Agron. Santiago de las Vegas, Havana, pp. 1-52, 6 pls.
- . 1947. Notas sobre mariposas diurnas miscelánea de Cuba. (Lep.: Rhop.). Mem. Soc. Cub. Hist. Nat. 19, No. 1: 25-28.
- BRUNER, S. C., L. C. SCARAMUZZA & A. R. OTERO. 1945. Catálogo de los insectos que atacan a las plantas económicas de Cuba. Published by Ministerio de Agricultura. Cuba. 1-246, 12 pls.
- CHERMOCK, RALPH L. 1946. Migration in *Ascia monuste phileta* (Lep. Pieridæ). Ent. News, 57, no. 6, 144-146.
- . 1947. A new subspecies of *Limenitis archippus* (Lep. Nymphalidæ). Am. Mus. Nov. No. 1365, 1-2.
- . 1950. A generic revision of the Limenitini of the World. The American Midl. Nat., 43, No. 3, 513-569, 68 figs.

- CLARK, AUSTIN HOBART. 1932. The butterflies of the District of Columbia and vicinity. Bull. 157, U. S. Nat. Mus., Washington, D. C., 1-337, pl. 1-64.
- . 1941. Notes on some North and Middle American Danaid butterflies. Proc. U. S. Nat. Mus. Washington, D. C., 90, No. 3118, 531-542, pl. 71-74.
- . 1947. The interrelationships of the several groups within the butterfly superfamily Nymphaloidea. Proc. Ent. Soc. Washington, 49, No. 6, pp. 148-149.
- . 1948. Classification of the butterflies, with the allocation of the genera occurring in North America North of Mexico. Proc. Biol. Soc., Washington, D. C., 61, 77-81.
- CLENCH, HARRY K. 1941. Notes on two Bahaman *Lycænidæ*, with the description of a new subspecies. Rev. Torreia. Univ. Havana, No. 7, 1-7.
- . 1941b. A new race of *Hemiargus* for the Bahamas. (Lep. *Lycænidæ*). Mem. Soc. Cub. Hist. Nat., 15, No. 4, 407-408.
- . 1942. The identity of the Florida race of *Leptotes*. (Lep. *Lycænidæ*). Journ. N. Y. Ent. Soc., 50, No. 3, 243-244.
- . 1943. Some new *Calisto* from Hispaniola and Cuba. (Lep.: *Satyridae*). Psyche, 50, Nos. 1-2, 23-29.
- COMSTOCK, WILLIAM PHILLIPS. 1941. See BELL, E. L. & W. P. COMSTOCK
See JOHNSON, F. & W. P. COMSTOCK
- . 1942. Dating the *Systema Entomologiae*, by Fabricius and Papillons Exotiques, Volume I, by Cramer. Jour. N. Y. Ent. Soc., 50, No. 2, 189-190.
- . 1942b. The genera of the *Systema Glossatorum* of Fabricius. (Lep.) Bull. Brooklyn Ent. Soc., 37, No. 2, 46-49.
- . 1942c. *Papilio lavinia*, Fabricius and Cramer. Jour. N. Y. Ent. Soc. 50, No. 2, 190-191.
- . 1942d. *Nymphalidæ* of the Antilles. (Lep. Rhop.). Ibid., 50, No. 3, 283-288.
- . 1943. The genus *Ascia* in the Antilles. (Lep. *Pieridæ*). Am. Mus. Nov. No. 1229, 1-7.
- . 1943b. Notes on the subgenus *Glutophrissa*, genus *Appias*. (Lep., *Pieridæ*). Am. Mus. Nov. No. 1238, 1-6, figs. 1, 2.
- . 1944. Insects of Porto Rico and the Virgin Islands. N. Y. Acad. Sci., 12, Part 4, 419-622, text figs. 1-29, pl. 1-12.
- . 1948. See E. L. BELL & W. P. COMSTOCK
- COMSTOCK, WM. P. & F. MARTIN BROWN. 1950. Geographical variation and subspeciation in *Heliconius charithonius* Linnaeus. (Lep., *Nymphalidæ*). Am. Mus. Nov. No. 1467, 1-21, text figs. 1-3.
- COMSTOCK, WM. P. & IRVING HUNTINGTON. 1943. *Lycænidæ* of the Antilles. (Lep. Rhop.). Ann. N. Y. Acad. Sci., 45, Art. 2, 49-130, 1 pl.
- . 1949. Origins and relationships of Mexican and Antillean *Papilionoidea*. (Lep.). Sobretiro anales Inst. Biol. 20, Nos. 1, 2, 385-391.

- COMSTOCK, JOHN HENRY & ANNA BOTSFORD COMSTOCK. 1936. How to know the butterflies. Comst. Publ. Co., Ithaca, N. Y., 1-311, text figs. 1-19, pl. 1-45.
- D'ALMEIDA, ROMUALDO FERREIRA. 1936. Revisão das *Terias* Americanas. (Lep., Pieridæ). Part I. Mem. Inst. O. Cruz. 31, Fasc. 1. Rio de Janeiro, pp. 11-54, 17 pls.
- . 1936b. Revisão das *Terias* Americanas. (Lep. Pieridæ). Part II. Ibid., 31, Fasc. 2. Rio de Janeiro. pp. 189-347, 18 pls.
- . 1938. Nota suplementar a "Revisão das *Terias* Americanas". (Lep. Pieridæ). Ibid., 33, Fasc. 2. Rio de Janeiro, pp. 231-247, 3 pls.
- . 1938b. Revisão do género *Anteos* Hübner. (Lep. Pieridæ). Ibid., 33, Fasc. 4, pp. 567-579, 3 pls.
- . 1939. Revisão das espécies Americanas da superfamília Danaoidea. (Lep. Rhop.). Part. I-Família Danaidæ, subfamília Danainæ. Ibid., 34, Fasc. 1, pp. 1-113, 30 pls.
- . 1939b. Revisão do género *Aphrissa* Butler. (Lep. Pieridæ). Bol. Biológico (N. S.), São Paulo, 4, No. 3, pp. 423-443, 4 pls.
- . 1939c. Revisão do género *Appias* (Subgén. *Glutophrissa* Butler). (Lep.). Ibid., 4, No. 1, pp. 50-66, 3 pls.
- . 1940. Revisão do género *Phæbis* Hübner. (Lep. Pieridæ). Arquivos Zool. Est. São Paulo. 24, da Rev. do Museu Paulista, vol. I, Artigo 3, pp. 67-152, 12 pl.
- . 1941. Algumas observações sobre a fauna de Lepidópteros da América. Ibid., 25, vol. II, Artigo 11, pp. 299-318, 2 pl.
- . 1942. Alguns tipos de géneros da ordem Lepidoptera. 1a Nota: Rhopalocera, Fam. Mechanitidæ. Papéis Avulsos do Dept. Zool. Secret. da Agric., São Paulo, 2, No. 14, pp. 179-196.
- . 1943. Alguns tipos de géneros da ordem Lepidoptera. 2a. Nota: Rhopalocera, Fam. Pieridæ. Ibid., 3, no. 5, pp. 73-106.
- . 1944. Nota suplementar a "Revisão das espécies Americanas da Superfamília Danaoidea". Ibid., 4, No. 3, pp. 37-70, 3 pl.
- . 1944b. Nota suplementar a "Revisão do género *Phæbis* Huebner." Bol. do Museu Nacional. Zool. No. 27, pp. 1-16.
- . 1944c. Estudos Biológicos sobre alguns Lepidópteros do Brasil. Arquivos Zool. Est. São Paulo, 4, Artigo 2, pp. 33-72, 3 pl.
- . 1944d. Segunda nota suplementar a "Revisão das *Terias* Americanas". Ibid., 4, Artigo 3, pp. 73-94, 1 pl.
- . 1945. Nota suplementar aos nossos trabalhos sobre os géneros *Pseudopieris*, *Anteos*, *Appias* e *Aphrissa*. (Lep. Pieridæ). Papéis Avulsos do Dept. Zool. Secret. da Agric., São Paulo, 6, No. 21, pp. 225-240.
- D'ALMEIDA, R. F. & JOSÉ OITICICA, F. 1951. The International Commission on Zoological Nomenclature and the name of the Monarch Butterfly. Science, 113, No. 2947, pp. 728-729.
- DETHIER, VINCENT G. 1940. Life histories of Cuban Lepidoptera. Psyche, 47, No. 1, pp. 14-26, pl. III.

- . 1941. Metamorphoses of Cuban Nymphalidæ and Lycænidæ. *Psyche*, 48, Nos. 2-3, pp. 70-78, pl. V and VI.
- . 1942. Metamorphoses of common Cuban Pyrginæ. *Psyche*, 49, Nos. 1-2, pp. 4-7.
- . 1942b. Hesperiidæ affecting sugar cane in Cuba. *Mem. Soc. Cub. Hist. Nat.*, 16, No. 2, pp. 167-176, 1 pl.
- . 1942c. The early stages of *Lerema cornelius* Latreille, *Mem. Soc. Cub. Hist. Nat.* 16, No. 2, pp. 177-178, 1 pl.
- . 1942d. Abdominal glands of Hesperiiinae. *Journ. N. Y. Ent. Soc.*, 50, No. 2, pp. 203-207, 1 pl.
- DILLON, LAWRENCE S. 1947. Some new subspecies of butterflies from Dominica, B. W. I. *Bull. Brooklyn Ent. Soc.*, 42, No. 3, pp. 97-102.
- DUFRANE, ABEL. 1946. "Papilionidæ". *Bull. & Ann. Soc. Ent. Belgique*, 82, pp. 101-122.
- . 1948. Note sur les Danaidæ. *Bull. Soc. Linnéenne de Lyon*, 17, No. 10, pp. 192-194.
- ELIOT, NEVILL. 1947. More on continental drift, *Precis lavinia* Hbn. and *P. villida* F. *The Entomologist*, 80, No. 1013, pp. 230-234.
- EVANS, BRIG. W. H. 1947. Hesperiana. *Proc. Ent. Soc. Wash.*, 49, No. 6, pp. 162-163.
- EVANS, BRIG. W. H., G. S. KLOET, W. D. HINCKS AND OTHERS. 1946. A check list of British Macrolepidoptera. *The Amat. Entomologists' Soc. London. Pamphlet No. 5*, pp. 1-32.
- FAZZINI, LILLIAN DAVIDS. 1934. *Butterflies and Moths of America*. Whitman Publish. Co. Wisconsin. pp. 1-96. 64 color illustrations.
- FIELD, WILLIAM D. 1938. New forms and subspecies of North American Libytheidæ and Lycænidæ. *Journ. Kans. Ent. Soc.*, 11, No. 4, pp. 124-133.
- . 1938b. A manual of the butterflies and skippers of Kansas. (*Lep. Rhop.*). *Bull. Univ. Kansas*, 39, No. 10, pp. 1-328, 2 pl.
- . 1950. The International Commission on Zoological Nomenclature and the correct name for the North American Monarch Butterfly. (*Lep., Danaidæ*). *Proc. Ent. Soc. Wash.*, 52, No. 5, pp. 234-236.
- FIELD, WM. D. & J. F. GATES CLARKE & J. G. FRANCLEMONT. 1951. On a recent proposal to correct an error committed by the International Commission on Zoological Nomenclature at the Paris 1948 meeting. *Science*, 113, No. 2925, pp. 68-70.
- FILHO, JOSÉ OITICICA. 1946. Sobre a morfologia do penis em Lepidoptera. *Bol. Museu Nacional. Rio de Janeiro, Brazil*. No. 50, pp. 1-79, 49 figs.
- FORBES, WILLIAM TROWBRIDGE MERRIFIELD. 1928. Variation in *Junonia lavinia* (*Lep. Nymphalidæ*). *Journ. N. Y. Ent. Soc.* 36, No. 4, pp. 305-321, pl. XI.
- . 1939. Revisional notes on the Danainæ (*Lep.*). *Ent. Amer.*, 19, No. 2, pp. 101-140.

- . 1943. Revisional Notes on the Danainæ (Supplement). Journ. N. Y. Ent. Soc., 51, No. 4, pp. 295-304.
- . 1945. The genus *Phyciodes* (Lep. Nymphalidæ). Ent. Amer., 24, No. 4, pp. 139-207, 8 pl.
- . 1947. Buckeyes and Wegener. The Ent., 80, No. 1006. pp. 56-58, f. 1-7.
- FREEMAN, H. A. 1949. A summary of new butterflies from Texas. The Texas Journ. Sci., 1, No. 3, pp. 40-41.
- GARTH, JOHN S. 1950. Butterflies of Grand Canyon National Park. Grand Canyon. Nat. Hist. Association, Bull. No. 11, pp. 1-52, text figs. 1-25, 1 map.
- GRINNELL, JR. FORDYCE. 1918. Some variations in the genus *Vannessa* (*Pyrameis*). *Psyche*, 25, No. 5, pp. 110-115, pl. IV.
- GUNDLACH, JUAN. 1866. Descripción de una nueva especie de mariposa diurna cubana del género *Papilio*. In Poey. Rep. Físico-Natural de la isla de Cuba. I. Havana, pp. 279-280, pl. 5.
- . 1881. Contribución a la Entomología Cubana. Parte Primera. Lepidópteros. Havana, pp. 1-445.
- . 1891. Suplemento segundo para la contribución de la Entomología Cubana. I, Lepidópteros, Havana, pp. 445-480.
- HALL, ARTHUR. 1917. New butterflies of the family Nymphalidæ. Entom. London, 50, No. 651, pp. 171-174.
- . 1936. The butterflies of St. Kitts. Entom., London, 69, No. 883, pp. 274-278.
- HOFFMANN, CARLOS CRISTIAN. 1924. Lepidópteros nuevos de México. Separate. pp. 1-5, 4 figs.
- . 1933. La fauna de Lepidópteros del Distrito de Soconusco, (Chiapas). Un estudio zoogeográfico. Sobretiro Anales Inst. Biol. 4, Nos. 3, 4, pp. 207-307.
- . 1936. Contribuciones al conocimiento de la fauna de Actopan. Hgo. I. Algunas observaciones sobre la fauna de Lepidópteros en la época seca. Ibid., 7, Nos. 2, 3, pp. 259-263.
- . 1940. Lepidópteros nuevos de México. IV. Ibid., 11, No. 1, pp. 275-284, 7 figs.
- . 1940b. Lepidópteros nuevos de México. V. Ibid., 11, No. 2, pp. 633-638, 4 figs.
- . 1940c. Catálogo sistemático y zoogeográfico de los Lepidópteros mexicanos. Primera parte. Papilionoidea. Ibid., 11, No. 2, pp. 639-739.
- . 1941. Catálogo sistemático y zoogeográfico de los Lepidópteros mexicanos. Segunda parte. Hesperioidea. Ibid., 12, No. 1, pp. 237-294.
- HOLLAND, WILLIAM JACOB. 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. Annals Carn. Mus. 10, No. 3, 4, Art. XVIII, pp. 487-518, pl. XXXI.

- . 1942. The butterfly book. Garden City. New York, pp. 1-424, 198 text figs., 77 pl.
- HUNTINGTON, IRVING. 1943. See Comstock, W. P. & I. Huntington
- . 1949. Ibid.
- JAUME, MIGUEL L. 1947. Entomología Cubana. (Work in mimeograph, edited in Museo Poey, Univ. Havana). pp. 1-200.
- JOHNSON, FRANK & WILLIAM P. COMSTOCK. 1941. *Anaea* of the Antilles and their continental relationship with descriptions of new species, subspecies and forms. (Lep. Rhop.). Journ. N. Y. Ent. Soc., 49, No. 4, pp. 301-343, pl. VIII-XII.
- JUDD, W. W. 1950. An assemblage of Monarch Butterflies (*Danaus plexippus* L.) on the North Shore of Lake Erie. Journ. N. Y. Ent. Soc., 58, No. 3, pp. 169-171.
- KIRIAKOFF, SERGIUS G. 1946. On the systematical position of the Lepidopterous family Hesperiidæ. 13th Biologisch Jaarboek, Dodonaea, pp. 288-292.
- KLOTS, ALEXANDER BARRET. 1928. A revision of the genus *Eurema* (Lep. Pieridæ). Part I. New World Species, Morphology and Phylogeny. Journ. N. Y. Ent. Soc., 36, pp. 61-79, 4 pl.
- . 1929. A revision of the genus *Eurema* Hübner. (Lep. Pieridæ). Part II, New World species, Taxonomy and Synonymy. Ent. Amer., 9, No. 3, pp. 99-171, 4 pl.
- . 1948. Notes on the genus *Eurema* (Pieridæ) in the United States. Lepidopterists' News, 2, No. 5, pp. 51-53, and No. 9, p. 112, (errata).
- KREMKY, JERZY. 1925. Neotropische Danaididen in der Sammlung des Polnischen Naturhistorischen Staatsmuseums in Warschau. Ann. Zoologici Musei Polonici Historiae Naturalis. 4, No. 3, pp. 141-275, text figs. 1-193, pl. XX-XXVIII.
- LATHY, PERCY I. 1899. A monograph of the genus *Calisto* Hübn., Trans. Ent. Soc. London, pp. 221-228, pl. IV.
- LICHY RENÉ. 1943. Documents pour servir a l'étude des Lépidoptères de la faune américaine (lère. Note) Sur le dimorphisme saisonnier chez deux. *Terias* (Lép., Rhop., Pieridæ). Bol. Ent. Venezolana, 2, No. 4, pp. 175-184.
- MICHENER, CHARLES DUNCAN. 1942. A generic revision of the Heliconiinae. (Lep. Nymphalidæ). Am. Mus. Novitates, No. 1197, pp. 1-8, 17 figs.
- . 1942b. A review of the subspecies of *Agraulis vanillæ* (Linnæus). (Lep. Nymphalidæ). Ibid., No. 1215, pp. 1-7.
- . 1943. A review of the genus *Calisto*. (Lep. Satyrinæ). Ibid., No. 1236, pp. 1-6, 2 figs.
- . 1943b. Some systematic notes on the Libytheidæ (Lep.). Ibid., No. 1232, pp. 1-2, 6 figs.
- . 1949. Sympatric species of *Calisto* in Cuba. (Lep. Satyrinæ). Ibid., No. 1391, pp. 1-3, 2 figs.

- MILES MOSS, A. 1949. Biological notes on some "Hesperiidæ" of Para and the Amazon. (Lep. Rhop.). Acta Zool. Lilloana. Inst. "M. Lillo". Tucuman. Argentina. 7, pp. 27-79, p. I-V.
- MUNROE, EUGENE G. 1942. The Caribbean races of *Anartia jatrophae* Johansson. (Lep. Nymphalidæ). Am. Mus. Nov. No. 1179, pp. 1-4.
- . 1947. Four new Pieridæ from the West Indies. Ibid., No. 1362, pp. 1-5.
- . 1950. The *dina* group of the genus *Eurema* in the West Indies. (Lep. Pieridæ). Journ. N. Y. Ent. Soc., 58, No. 3, pp. 172-191.
- . 1950b. The systematics of *Calisto* (Lep. Satyrinæ), with remarks on the evolutionary and zoogeographic significance of the genus. Journ. N. Y. Ent. Soc., 58, No. 4, pp. 211-240.
- . 1951. The de Rabié paintings of Lepidoptera in the Blacker Library of Zoology, McGill University, with notes on the butterflies represented therein. The Lepidopterists' News, 5, Nos. 6-7, pp. 55-57.
- NEAVE, SHEFFIELD AIREY. 1939-40. Nomenclator Zoologicus. A list of the names of genera and subgenera in Zoology from the Tenth Edition of Linnæus, 1758, to the end of 1935. Four Volumes. The Zool. Soc. London.
- ORFILA, RICARDO N. 1951. Lepidópteros bolivianos nuevos o poco conocidos. la. nota. Folia Universit., No. 5, pp. 46-58.
- OTERO, A. R. 1945. See Bruner, S. C., L. C. Scaramuzza & A. R. Otero.
- PASSOS CYRIL F. DOS. 1952. Application to the International Commission On Zoological Nomenclature to reconsider and rephrase in part their decision suspending the "regles" concerning "*Papilio plexippus*" Linnæus, 1758, insofar as that decision refers to a figure in Holland's "Butterfly Book". Bull. Zool. Nomencl. 6, pp. 278-283.
- POEY, FELIPE. 1832. Centurie de Lépidoptères de l'île Cuba. París. (not numbered). 20 pl.
- . 1846. Catálogo Metódico y Descriptivo de las Mariposas de la Isla de Cuba. Mem. de la Real Soc. Económica. Havana.
- RAMOS, J. A. 1946. The insects of Mona Island. (West Indies). Journ. Agric. Univ. P. Rico, 30, No. 1, pp. 52-54.
- RAMSDEN, CHARLES THEODORE. 1915. A new *Pieris* from Cuba. (Lep.). Ent. News, 26, pp. 15-16.
- . 1920. A new *Kricogonia* from Cuba. (Lep. Rhop.). Ent. News, 31, pp. 259-260.
- . 1922. Ibid., Mem. Soc. Cub. Hist. Nat. 4, pp. 211-212.
- . 1923. See Skinner, H. & C. T. Ramsden
- RAWSON, GEORGE W. 1945. Interesting problems connected with the checkered white butterfly *Pieris protodice* Boisduval and Leconte. Bull. Brooklyn Ent. Soc., 40, No. 2, pp. 49-54.
- RILEY, NORMAN DENBIGH. 1926. On the identity of certain Hesperiidæ (Lep.) described by Latreille. Trans. Ent. Soc. London, pp. 231-241.

- . 1926b. *Colænis* and *Dione* (Lep. Nymphalidæ): A revisional note on the species. *Entomologist*, 59, pp. 240-245, pl. II.
- ROTHCHILD, WALTER & KARL JORDAN. 1906. A revision of the American Papilios. *Novitates Zoologicae*, 13, pp. 411-752, pl. IV-IX.
- SÁNCHEZ ROIG, MARIO & GASTÓN S. VILLALBA. 1934. Cuatro nuevas especies de mariposas diurnas para la fauna cubana. *Mem. Soc. Cub. Hist. Nat.* 8, No. 2, pp. 108-110.
- . 1934b. *Ibid.*, *Rev. Agric.* Año XV, No. 55, 15, July, 1934, pp. 31-34, 5 figs.
- SCARAMUZZA, L. C. 1945. See Bruner, S. C., L. C. Scaramuzza & A. R. Otero.
- SCHWARZ, RUDOLF. 1949. *Motýli. Denni. 2. Praha*, pp. I-LXIX, 48 pl. not numbered with 505 figs.
- SCHWEIZER, F. & R. G. WEBSTER KAY. 1941. *Lepidópteros del Uruguay. II. Catálogo sistemático. Parte 1: Rhopalocera & Grypocera. Anales Museo Hist. Nat. Montevideo. (2d. Serie).* 5, No. 3, pp. 4-24, 1 map.
- SHOUMATOFF, NICHOLAS. 1941. See Avinoff, A. & N. Shoumatoff
- . 1946. *Ibid.*
- SHOWALTER, SC. D., WILLIAM JOSEPH. 1927. Strange habits of familiar moths and butterflies. *Nat. Geogr. Mag.*, 52, No. 1, pp. 77-127, pl. I-XVI, 28 text figs.
- SIERRA, JUAN T. 1949. See Torre y Callejas, S. L. de la & J. T. Sierra
- SKINNER, HENRY & CHARLES RAMSDEN. 1923. Annotated list of the Hesperiidæ of Cuba. *Proc. Ac. Nat. Sci., Philad.*, 75, pp. 307-321.
- TORRE Y CALLEJAS, SALVADOR LUIS DE LA. 1943. Dos nuevas especies de mariposas diurnas para Cuba. (Lep. Rhop.). *Mem. Soc. Cub. Hist. Nat.*, 17, No. 2, pp. 139-140, 1 pl.
- . 1946. Importancia de las escamas en la clasificación de los Lepidópteros. *Mem. Soc. Cub. Hist. Nat.*, 18, No. 1, pp. 103-106, 1 pl.
- . 1946b. Notas sobre las escamas de los Lepidópteros. *Ibid.*, 18, No. 1, pp. 107-122, 3 pl.
- . 1947. Revisión de las especies cubanas del género *Danaus*, con la adición de dos nuevas subespecies para Cuba. *Ibid.*, 19, No. 1, pp. 17-21, 2 pl.
- . 1947b. Revisión de las especies cubanas de la familia Papilionidæ. (Lep. Rhop.). *Rev. Inst. Matanzas*, Año 1, No. 1, pp. 22-43, 4 pl., text figs. 1-3.
- . 1949. A list supplementing Bates' "Butterflies of Cuba". *The Lepidopterists' News*, 3, No. 6, p. 65.
- . 1949b. Géneros y especies de la subfamilia Heliconiinae hallados en Cuba. (Lep. Nymphalidæ). (Adiciones y Correcciones al Catálogo de Cuba). *Mem. Soc. Cub. Hist. Nat.*, 19, No. 2, pp. 191-194.
- . 1949c. Datos taxonómicos sobre Lepidópteros, con notas sobre algunas especies cubanas. *Ibid.*, pp. 177-190.

- . 1949d. Estudio de las subespecies cubanas de *Ascia monuste*. (Lep. Pieridæ). Ibid., pp. 171-174, 1 pl.
- . 1950. Additions to "A list supplementing Bates' Butterflies of Cuba". The Lepidopterists' News, 4, Nos. 6-7, p. 72.
- . 1951. Notas suplementarias a nuestro trabajo sobre el género *Danaus* (Lep. Rhop.). Mem. Soc. Cub. Hist. Nat. 20, No. 2, pp. 93-103.
- . 1951b. Sobre una nueva forma de *Nathalis iole* Boisduval (Lep. Pieridæ). Ibid., 20, No. 2, pp. 89-92, pl. XLIV, figs. 1-2.
- . 1951c. A new butterfly from Cuba. (Lep. Nymphalidæ). Proc. Ent. Soc. Washington, 53, No. 6, pp. 336-337, text fig. 1, 2.
- . 1952. Datos taxonómicos sobre Lepidópteros, con notas sobre algunas especies cubanas. Segunda Parte. Mem. Soc. Cub. Hist. Nat., 21, No. 1, pp. 61-70.
- TORRE Y CALLEJAS, S. L. DE LA & J. T. SIERRA. 1949. Sobre la presencia en Cuba de *Papilio* (*Pterourus*) *troilus ilioneus* J. E. Smith. (Lep. Rhop.). Mem. Soc. Cub. Hist. Nat. 19, No. 2, pp. 195-196.
- TORRE Y CALLEJAS, S. L. DE LA & PASTOR ALAYO DALMAN. 1953. Una lista de las *Eurema* de América, con notas sobre las especies colectadas en Cuba. (Lep. Pieridæ).
- TORRE Y MADROZO, RICARDO DE LA. 1936. Sobre una nueva forma de *Papilio andræmon*. Mem. Soc. Cub. Hist. Nat. 10, No. 5, pp. 333-334, 1 pl.
- VÁZQUEZ, LEONILA. 1947. Papilios nuevos de México. Anales Inst. Biol. 18, No. 1, pp. 249-256, 5 figs.
- . 1948. Papilios nuevos de México. Ibid., 19, No. 1, pp. 233-240, 3 figs.
- . 1948b. Observaciones sobre Piéridos mexicanos con descripciones de algunas formas nuevas. Ibid., 19, No. 2, pp. 469-484, 4 figs.
- . 1953. Ibid., IV. 23, Nos. 1-2, pp. 257-267, 2 figs.
- VILLALBA, GASTON S. 1934. See Sánchez Roig, Mario & G. S. Villalba.
- WARREN, B. C. S. 1947. Some principles of classification in Lepidoptera, with special reference to the butterflies. The Entomologist, 80, No. 1012, pp. 208-217, and No. 1013, pp. 235-241.
- WASTON, FRANK EDWARD. 1937. New Hesperiidæ from the Antilles. (Lep. Rhop.). Am. Mus. Nov., No. 906, pp. 1-10.
- WEISS, HARRY B. & WILLIAM M. BOYD. 1950. Insect feculæ. Journ. N. Y. Ent. Soc., 58, No. 3, pp. 154-165, pl. XIV-XVI.
- WILLIAMS, JR. ROSWELL C. & ERNEST L. BELL. 1930. Short studies in American Hesperiidæ. (Lep. Rhop.). Trans. Amer. Ent. Soc., 56, pp. 133-138, 1 pl.
- . 1933. Studies in the American Hesperioidea. (Lep.). Paper I. Ibid., 59, pp. 69-84, 1 pl.
- . 1934. Studies in the American Hesperioidea. (Lep.). Paper II. On the Synonymy and genitalia of some species. Trans. Am. Ent. Soc., 60, pp. 17-30, 1 pl.



De La Torre Y Callejas, Salvador Luis. 1954. "An Annotated List of the Butterflies and Skippers of Cuba (Lepidoptera, Rhopalocera) (Continued)." *Journal of the New York Entomological Society* 62, 207–249.

View This Item Online: <https://www.biodiversitylibrary.org/item/206061>

Permalink: <https://www.biodiversitylibrary.org/partpdf/179653>

Holding Institution

Smithsonian Libraries and Archives

Sponsored by

Biodiversity Heritage Library

Copyright & Reuse

Copyright Status: In Copyright. Digitized with the permission of the rights holder

Rights Holder: New York Entomological Society

License: <http://creativecommons.org/licenses/by-nc/3.0/>

Rights: <https://www.biodiversitylibrary.org/permissions/>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.