

Megachile Grantiana, n. n.

Megachile punctatissima, W. F. Kirby, Bull. Liverp. Mus. iii. (1900) p. 20.—Not of Spinola, 1806.

Hab. Sokotra (*Ogilvie-Grant and Forbes*).

I informed Mr. Kirby of the preoccupation of the name proposed by him; but as he is no longer working on Hymenoptera, he asks me to rectify the matter.

Megachile paucipunctulata, W. F. Kirby.

Megachile paucipunctulata, W. F. Kirby, Bull. Liverp. Mus. iii. (1900) p. 21.—Sokotra.

N. syn.: *Megachile sokotrana*, Friese, Zeits. f. Hym. und Dipt. 1903, p. 287.—Sokotra (*Simony*).

Megachile subsericans, n. n.

Megachile vicina, Moraw. Heræ Soc. Ent. Ross. xxviii. (1894) p. 37.—Turkestan.—Not *M. vicina*, Mocsáry, 1879.

Megachile mixtula, n. n.

Megachile mixta, Radoszkowski, Bull. Soc. Nat. Moscou, xlvii. (1874) p. 138.—Caucasus.—Not *M. mixta*, Costa, 1863.

Boulder, Colorado, U.S.A.,
June 5, 1907.

XXIV.—*Notes on the American Species of Hesperiidæ described by Plötz.* By F. D. GODMAN, D.C.L., F.R.S., &c.

I HAVE recently had an opportunity of examining the large number of coloured drawings made by the late Carl Plötz, and am at last enabled to identify most of the Mexican and Central-American species described in his various writings. These drawings not only illustrate the numerous Hesperiidæ named by him, but nearly all those tabulated or described by Herrich-Schäffer and other continental authors, and they are therefore of the greatest interest to all students of Rhopalocera. The following notes on his figures of the American species, generally, give the necessary corrections to the synonymy, &c.* The numerals in parentheses after each name indicate the number of Plötz's drawings, and the locality

* Drawings nos. 1328–1333 are unfortunately missing, and one Central-American species, *Netrocoryne coronus*, Plötz, still remains unidentified by me.

is added either from the drawing or the published description. In a few cases the locality has not been recorded. Coloured copies of the figures of all the unidentified American species have been made and presented by me to the Natural History Museum at South Kensington.

<i>Goniurus pilatus</i> , Plötz (2), Brazil and Guiana.	= <i>Eudamus simplicius</i> , Stoll.
„ <i>procne</i> , Plötz (3), Brazil.	= <i>Eudamus simplicius</i> , Stoll.
„ <i>zagorus</i> , Plötz (4), Allagra.	Probably a small form of <i>Eudamus eurycles</i> , Latr.
„ <i>zalanthus</i> , Plötz (5), Allagra.	= <i>Eudamus eurycles</i> , Latr.
„ <i>elongatus</i> , Plötz (8), Brazil.	Very near <i>Eudamus undulatus</i> , Hew., but with the outer dark band only present on the secondaries beneath.
„ <i>nicasius</i> , Plötz (9), Brazil.	= <i>Eudamus undulatus</i> , Hew.
<i>Eudamus flammula</i> , H.-S. (18), Loc.?	= <i>Eudamus lindora</i> , Butl. Herrich-Schäffer's name has priority.
<i>Goniurus procerus</i> , Plötz (21), Peru.	Belongs to <i>Eudamus</i> . Not in the G. & S. coll.
„ <i>ælius</i> , Plötz (22), Pará.	Belongs to <i>Eudamus</i> . Not in the G. & S. coll.
„ <i>retractus</i> , Plötz (24), La Guayra.	The St. Vincent and Grenada insect recorded by G. & S. under the name <i>Eudamus santiago</i> , Luc., belongs to this species.
„ <i>larius</i> , Plötz (26), Cuba.	= <i>Eudamus santiago</i> , Luc. (= <i>corydon</i> , Butl.).
„ <i>velinus</i> , Plötz (27), Bahia.	Probably a var. of <i>Eudamus dorantes</i> , Stoll.
„ <i>galbula</i> , Plötz (30), Brazil.	Belongs to <i>Eudamus</i> . From Colombia, Guiana, and Brazil in the G. & S. coll.
„ <i>Kefersteini</i> , Plötz (32), Caracas.	= <i>Eudamus dorantes</i> , Stoll.
„ <i>proteoides</i> , Plötz (33), N. Am.	= <i>Eudamus proteus</i> , L., var. with the hyaline spots on the primaries very small. Specimens from the Lesser Antilles in the G. & S. coll.
„ <i>ixion</i> , Plötz (36), Rio Janeiro.	= <i>Eudamus catillus</i> , Cr.
„ <i>herophilus</i> , Plötz (43), Rio Janeiro.	= <i>Eudamus virescens</i> , Mab.
„ <i>leucodesma</i> , Plötz (47), Pará.	= <i>Eudamus cholus</i> , Plötz. Description unpublished?
„ <i>hypozeonius</i> , Plötz (53), La Guayra.	= <i>Goniurus cælus</i> , Cr.
<i>Eudamus fulminans</i> , H.-S. (63), Loc.?	= <i>Thymeles mephitis</i> , Hew. Herrich-Schäffer's name has priority.
„ <i>zopyrus</i> , Plötz (64), Surinam.	Probably belongs to <i>Thymeles</i> . The markings are very similar to those of <i>Eudamus miltas</i> , G. & S.

- Eudamus erycina*, Plötz (66), Brazil. Unknown to me. ? Genus *Thymele*.
- „ *aulus*, Plötz (67), Brazil. ♂ = *Thymele enotrus*, Cr., ♀ = *T. fulviluna*, Mab.
- Telegonus granadensis*, Möschl. (70), Venezuela. = *Thymele aulestes*, Cr., var.
- Eudamus bricius*, Plötz (72), S. Am. = *Thymele aulestes*, Cr., var.
- „ *passalus*, H.-S. (74), Loc. ? A *Goniurus*, near *talus*, Cr. Not in G. & S. coll.
- „ *orphne*, Plötz (79), Rio Janeiro. A *Telegonus*, very near *T. eudemus*, Mab., from Central America.
- „ *orpheus*, Plötz (80), Pará. A *Thymele*, very near *T. enotrus*, Cr.
- „ *justus*, Plötz (81), S. Am. A *Thymele*, ♂, near *T. pervivax*, Hübn.
- Telegonus bahianus*, H.-S. (83), Loc. ? A *Chrysoplectrum*, probably a var. of *otriades*, Hew. From San Paulo in the G. & S. coll.
- „ *pseudochalybe*, H.-S. (87), Loc. ? A close ally of the variable *T. creteus*, Cr.
- Eudamus Hopfferi*, Plötz (88), S. Am. = *Telegonus creteus*, Cr., var.
- Telegonus cretellus*, H.-S. (89), Loc. ? Plötz's figures appear to represent two species: the lower one agrees with *T. jaira*, Butl., the upper one being very like *T. chiriquensis*, Staud. Herrich-Schäffer's name has priority.
- Eudamus xagua*, Luc. (90), Cuba. The identity of this species with *Goniloba malefida*, H.-S., was noted by Plötz.
- „ *blasius*, Plötz (93), Cuba. = *Telegonus elorus*, Hew.
- „ *latimargo*, H.-S. (94), Loc. ? = *Telegonus grullus*, Mab. Herrich-Schäffer's name has priority.
- „ *albicuspis*, H.-S. (95), Loc. ? A *Thymele* (?), near *phalæcus*, G. & S.
- „ *Gundlachi*, Plötz (99), Porto Rico. A form of *Proteides idas*, Cr., very near *Angasi*, G. & S., but without the subapical spots.
- „ *clavicornis*, H.-S. (100), Loc. ? = *Epargyreus exadeus*, Cr.
- „ *panthius*, H.-S. (109), Loc. ? = *Epargyreus asander*, Hew., var.
- „ *rochus*, Plötz (116), Brazil. = *Epargyreus enispe*, Hew., var. with the subapical spots wanting.
- „ *scheba*, Plötz (117), S. Am. Very near *Epargyreus asander*, Hew., but with a straight white band on the secondaries beneath.
- „ *chersis*, H.-S. (118), Loc. ? = *Æchydrus evelinda*, Butl. Herrich-Schäffer's name has priority.
- „ *phlius*, Plötz (124), Brazil. Belongs to *Cogia* (?), near *cajeta*, H.-S.

- Eudamus cajeta*, H.-S. (128), Loc. ? Plötz's figure does not quite agree with the insect identified as *Cogia cajeta*, H.-S., in the 'Biologia.'
- „ *valeriana* (*valerius*), Plötz (130), Mexico. Belongs to *Cogia*, near *cajeta*, H.-S.
- „ *nicomedes*, Plötz (133), Brazil. Belongs to *Telemiades*, near *megallus*, Mab.
- „ *jalapus*, Plötz (134), Mexico. A *Rhabdoides*, near *casica*, H.-S.
- „ *casica*, H.-S. (135), Loc. ? = *Rhabdoides epigena*, Butl. Herich-Schäffer's name has priority.
- Proteides zethos*, Plötz (137), Pará. = *Telemiades amphion*, Hübn., var.
- „ *antiope*, Plötz (138), Pará. = *Telemiades amphion*, Hübn., var.
- „ *nicola*, Plötz (140), Pará. Belongs to *Cabares* (?), near *potrillo*, Luc.
- Telemiades vulpecula*, Plötz (145), S. Am. The type of the genus *Physalea*, Mab. Males from Colombia and Venezuela in G. & S. coll.
- Telegonus epicalus*, Hübn. (*arcturus*, H.-S.) (147), Loc. ? = *Telemiades phasias*, Hew. Hübn.'s name has priority. Plötz's figure was taken from a Brazilian specimen.
- „ *ceramina*, H.-S. (148), Loc. ? Plötz's figures represent the two sexes of a *Telemiades*, from Surinam, very near *T. littera*, Mab. The supposed type of *T. ceramina*, in the G. & S. coll., is a ♀ of *Lerema accius*, Smith and Abbot, as stated in the 'Biologia.'
- Netrocoryne seneca*, Plötz (160), Brazil. Possibly belongs to *Ardaris*. Not in the G. & S. coll.
- Eudamus porcius*, Feld. (161), Rio Negro. = ♂ and ♀, *Dyscophus doriscus*, Hew., and *Netrocoryne cæcutiens*, H.-S. Felder's name has priority.
- Netrocoryne damias*, Plötz (162), S. Am. = *Bungalotis ramusis*, Cr., ♂.
- Telegonus gaurus*, Plötz (165), Rio Negro. = *Nascus euribates*, Cr., ♂, var.
- „ *fulvius*, Plötz (166), Cameta. = *Telegonus erythras*, Mab. There is a specimen of it from Villa Nova, Amazons, in the G. & S. coll. Mabilie refers the species to *Dyscophellus*. Plötz's name has priority.
- „ *probus*, Möschl. (168), Surinam. Genus ? Not in G. & S. coll.
- „ *cænosa* (H.-S.), Möschl. (169), Venezuela. = *Bungalotis phaselis*, Hew., ♂ ♀.
- „ *tychios*, Plötz (179), Bahia. Plötz's figures seem to represent vars. of *Bungalotis salatis*, Cr., ♀.
- „ *lucca*, Plötz (183), S. Am. Probably a var. of *Nascus cephisus*, Hew., ♀. A specimen of it

- Pellicia macarius*, H.-S. (191), Venezuela. from Santarem in the G. & S. coll.
- „ *albangula*, H.-S. (192), Guatemala. Plötz's figures (♂ ♀) do not agree with the insect identified under this name in the 'Biologia,' but belong to *P. castolus*, Hew.
- „ *ephora*, H.-S. (193), S. and Centr. Am. The specimen (♀) figured by Plötz is stated to be from "Rio," not Guatemala. The species cannot be satisfactorily identified.
- „ *licisca*, Plötz (196), Nicaragua. = *P. tiphys*, Godm. Herrich-Schäffer's name has priority.
- „ *dimidiata*, H.-S. (*corinna*, Plötz) (199), Mexico. = *P. thyestis*, Godm., ♂. Plötz's name has priority.
- „ *theon*, Plötz (200), S. Am. = *P. didia*, Möschl. Herrich-Schäffer's name has priority.
- „ *zamia*, Plötz (201), S. Am. *Achlyodes nivonicus*, Plötz, is doubtless the female of the same species.
- „ *tyana*, Plötz (202), S. Paulo. Apparently not represented in the G. & S. coll.
- „ *crispus*, H.-S. (204), Venezuela. Apparently not represented in the G. & S. coll.
- Arteurotia demetrius*, Plötz (205), Brazil. Probably belongs to *Mycteris*, near *cærulea*, Mab. Specimen figured is a ♂.
- Æthilla toxæus*, Plötz (212), Mexico. Probably belongs to *Mycteris*, near *cambyses*, Hew. Specimen figured is a ♂.
- „ *nocera*, Plötz (213), Colombia. Unknown to me.
- „ *primus*, Plötz (214), Brazil. = *Murgaria albociliata*, Mab., but has darker cilia.
- „ *melas*, Plötz (216), Rio Janeiro. There is a worn specimen of this species in the G. & S. coll.
- Cogia punctilia*, Plötz (222), Santarem. Also in G. & S. coll.
- Cecropterus longipennis*, Plötz (227), S. Am. Very like *Æ. echina*, Hew., but with the secondaries almost black beneath.
- „ *koluthos*, Plötz (228), Colombia. A close ally of *C. calchas*, H.-S.
- „ *orontes*, Plötz (229), La Guayra. = *C. aunus*, F., ♂.
- „ *lunulus*, Plötz (231), S. Am. = *C. zentus*, Möschl., ♂. Occurs also in Venezuela.
- „ *bocus*, Plötz (233), Pará. = *C. aunus*, F., ♀.
- Lychnuchus* (*Papilio*) *hiarbus*, Cram. (242), S. Am. = *C. neis*, Hübn., ♀, var.
- „ *clearchus*, Plötz (247), S. Am. = *C. itylus*, Hübn., var.
- Plötz figures a *Lychnuchoides* (? *ozias*, Hew.) under this name. It is possible that Cramer's species has been correctly identified by him.
- This figure represents the insect identified as *Ancistrocampta*

- Sophista plinius*, Plötz (249), S. Am. Very near *S. aristoteles*, D. & H. There is a specimen of it from Novo Friburgo in the G. & S. coll.
- Hesperia paria*, Plötz (259), Chiriqui. = *Eutychide achelous*, Plötz, ♂. Specimen figured is from La Guayra, not Chiriqui.
- „ *ina*, Plötz (261), Chiriqui. = *Methionopsis modesta*, Godm. Plötz's name *ina* has priority.
- „ *insignis*, Plötz (262), La Guayra. = *Mnasitheus simplicissima*, H.-S.
- „ *infuscata*, Plötz (265), Brazil. This is not the species identified as *Papias infuscata*, Plötz, in the 'Biologia,' for which Mabilles' name *integer* can be used. *H. infuscata*, Plötz, has a brand formed of two narrow elongate streaks on the primaries in the ♂. It comes very near *Metiscus atheas*, Godm.
- Pamphila lurida*, H.-S. (266), Loc. ? Probably belongs to *Mnasitheus*. Specimen figured is from Brazil.
- Hesperia rubida*, Plötz (268), S. Am. Probably belongs to *Papias*.
- Cobalus derasa*, H.-S.* (269), Loc. ? Probably the ♀ of a species of *Papias*.
- Goniloba sandarac*, H.-S. (271), Cuba. = *Hesperia palaea*, Hew., Herrich-Schäffer's name having priority. Belongs to genus *Asbolis*, Mab.
- Hesperia depuncta*, Plötz (273), Rio Janeiro. = *Cobalus cinnamomea*, H.-S., the latter name having priority. Belongs to a genus near *Dion*. Numerous specimens in G. & S. coll.
- Cobalus tertianus*, H.-S. (274), Loc. ? Belongs to *Cobalus*. *Pamphila warra*, Möschl., is the ♂, and *P. zola*, Möschl., the ♀, of the same species.
- Hesperia crispinus*, Plötz (277), Mexico. Looks very like *Mnasicles geta*, Godm. The drawing of the underside is, perhaps, too highly coloured.
- „ *rivera*, Plötz (278), Rio Janeiro. Probably a *Mnasicles*.
- „ *bias*, Plötz (279), S. Am. Very like *Mnaseas bicolor*, Mab.

* Corresp.-Blatt Regensb. 1870, p. 159.

- Hesperia gabinus*, Plötz (280), Rio Janeiro. Genus? Two ♀ from Santa Catherina in the G. & S. coll.
- „ *Herminieri*, Latr. (281), Carolina. Plötz figures a Venezuelan specimen as this species.
- „ *perlodes*, Plötz (282), Brazil. Very like the Mexican *Mastor anubis*, Godm.
- „ *perla*, Plötz (283), Rio Janeiro. Not represented in the G. & S. coll.
- „ *circellata*, Plötz (284), Brazil. Apparently not represented in the G. & S. coll.
- Pamphila subcostulata*, H.-S. (286), Brazil. Probably belongs to *Papias*. A ♂ from Iquitos in the G. & S. coll. may belong to it.
- Hesperia leucopogon*, Plötz (287), La Guayra. Apparently not represented in the G. & S. coll.
- „ *antistia*, Plötz (290), Rio Janeiro. A *Cymænes* and probably a form of the species identified as *C. silius*, Latr., in the 'Biologia.' Plötz's figure of the latter represents a larger insect, very like an unnamed specimen from Chiriqui in the G. & S. coll.
- „ *lycænoïdes*, Plötz (291), Rio Janeiro. A *Cymænes*, and perhaps a var. of *malitiosa*, H.-S.
- „ *pruinosa*, Plötz (293), S. Am. Belongs near the genus *Dion*. There are two specimens of it from Chapada in the G. & S. coll.
- „ *abdon*, Plötz (294), Brazil. Belongs to the genus *Zenida*, Mab. There are three specimens of it in the G. & S. coll.
- „ *acræa*, Plötz (296), Colombia. Unknown to me.
- „ *aon*, Plötz (300), Colombia. = *Lignyostola lacydus*, Druce. Plötz's description does not seem to have been published.
- „ *fimbriata*, Plötz (301), Mexico. Unknown to me.
- „ *ochrope*, Plötz (311), Pará. = *Pyrrhopygopsis telmela*, Hew., var. with a small hyaline spot on the primaries exterior to the transverse fascia. Plötz's figure (310) of *P. telmela* is very like *P. cleantes*, Latr.
- Erycides apicalis*, H.-S. (313), Loc. ? = *Pyrrhopygopsis cleantes*, Latr., var. with the spots on the primaries very small.
- Hesperia peratha*, Plötz (315), Bahia. Probably a *Thracides*, near *luda*, Hew.
- „ *nealces*, Plötz (316), Rio Janeiro. = *Thracides luda*, Hew., and *T. hundurensis*, Mab.
- „ *alda*, Plötz (321), Brazil. A very close ally of *Themesion certima*, Hew. There is a ♀ of it from Santa Catherina in the G. & S. coll.

- Cobalus quadrata*, H.-S. (322),
Loc. ? Belongs to genus *Tisias*. There is
a ♂ of it from Minas Geraes
in the G. & S. coll. exactly
agreeing with Plötz's figure.
- Hesperia trimaculata*, Plötz (326),
Brazil. Probably a *Cobalus* near *gabina*,
Godm. There is a ♂ of it
from Minas Geraes in the
G. & S. coll.
- „ *elisa*, Plötz (332), Brazil. = *H. crotona*, Hew. Genus near
Perichares.
- „ *adjuncta*, Plötz (340),
Colombia. = *Talides sergestus*, Cr., ♂, dark
var.
- „ *Besckei*, Plötz (348),
Novo Friburgo. = *Niconiades cydia*, Hew., var., ♂,
with a broader white band on
the secondaries beneath.
- „ *xanthotrix*, Plötz (352),
Rio Janeiro. Probably a var. of *Paraides or-
chamus*, Cr., ♂. The *Phocides
xanthotrix* of Mabilie, from
Bolivia, is perhaps a different
species. Plötz's description
has not apparently been pub-
lished.
- „ *brinoides*, Möschl. (360),
Surinam. = *H. noseda*, Hew. Genus ?
- „ *nanneta*, Plötz (370), Rio
Janeiro. Probably belongs to *Thracides*,
near *cæsenia*, Hew.
- „ *catochra* (*catochia*), Plötz
(374), Mahrida. Incorrectly quoted amongst the
unidentified Mexican species
in the 'Biologia.' No doubt
an eastern form.
- Goniloba matthiolus*, H.-S. (375),
Loc. ? = *Thracides salius*, Cram., var.
Plötz's figure is too green on
the upperside.
- Hesperia pelora*, Plötz (384),
Brazil. Probably not the ♀ of *Cobalopsis
edda*, Mab., as suggested in the
'Biologia.'
- „ *valentina*, Plötz (389),
Surinam. = *Carystoides basochesi*, Latr., var.
with the three hyaline spots on
the primaries reduced in size
and the patch on the second-
aries broken up into small
spots.
- „ *replana*, Plötz (390),
Brazil. = *Carystoides basochesi*, Latr., var.
with the hyaline patch on the
secondaries reduced to two
small spots.
- „ *socles*, Plötz (392), S.
Am. = *Vacerra litana*, Hew., var.
- „ *emacareus*, Plötz (393),
Venezuela. The insect identified as *Thespieus
macareus*, H.-S., in the 'Bio-
logia.'
- Goniloba macareus*, H.-S. (395),
Loc. ? = *Thespieus othna*, Butl.
- Hesperia æas*, Plötz (400), Chiriqui.
„ *cabenta*, Plötz (401), S.
Am. = *Vacerra litana*, Hew., var.
Probably a var. of *Vacerra litana*,
Hew., with the white markings
more extended beneath.

- Hesperia diores*, Plötz (407), S. Am. Very like *Carystus Claudianus*, Latr., but with the secondaries similarly marked above and beneath.
- „ *elana*, Plötz (409), Brazil. Comes near the genus *Pseudosarbia*, Berg. There are three males of it from Chapada in the G. & S. coll.
- „ *silanion*, Plötz (410), Bahia. Very like the ♀ of *Carystus hyalaspes*, Cram., the type of Mabille's genus *Synale*. The single specimen (♀) in the G. & S. coll. has the head green above.
- „ *mitella*, Plötz (411), Brazil. A very close ally of *H. elana*, Plötz, and belonging to the same genus. Occurs at the same locality, Chapada, from which place there is a pair in the G. & S. coll.
- „ *jebus*, Plötz (412), Brazil. = *Zenis minos*, Latr.
- „ *melaleuca*, Plötz (413), Rio Janeiro. = *Zenis minos*, Latr., var.
- Cobalus dissoluta*, Plötz (416), Loc. ? = *Zenis calvina*, Hew.
- Hesperia ozeta*, Plötz (417), Bahia. = *Zenis ozota*, Butl., var.
- „ *cinica*, Plötz (418), Pará. Probably a *Tirynthia*, near *conflua*, H.-S.
- Goniloba caniola*, H.-S. (419), Loc. ? = *Vacerra canente*, Butl. Herrich-Schäffer's name has priority.
- „ *conformis*, H.-S. (422), Loc. ? Probably a var. of *Prenes nero*, F.
- „ *luctuosa*, H.-S. (426), Loc. ? Belongs to *Prenes*, near *evadnes*, Cram., and *pauper*, Mab.
- Hesperia chlorus*, Plötz (428), Surinam. = *Prenes evadnes*, Cram., ♂.
- „ *zisa*, Plötz (430), Rio Janeiro. Probably an *Oxyntes*, near *corusca*, H.-S.
- „ *hypodesma*, Plötz (431), Pará, Rio Janeiro. A close ally of *Metron chrysogaster*, Butl.
- „ *cuneata*, Plötz (432), S. Am. = *Metron chrysogaster*, Butl., and *goza*, Hew.
- „ *hesiodes*, Plötz (434), "Cap Rico." = *Cobalus fidicula*, Hew. The locality quoted is a misprint for Costa Rica.
- „ *elvira*, Plötz (436), S. Am. Probably a *Vettius*, near *laurea*, Hew.
- „ *lyrcea*, Plötz (442), Brazil. = *Carystus marcus*, F.
- „ *eucherus*, Plötz (445), Surinam. = *Carystus fantasos*, Cram.
- „ *monacha*, Plötz (451), Blumenau. Belongs to *Vettius*, near *triangularis*, Hübn. Plötz's figure is taken from a Pará specimen.
- „ *peninsularis*, Plötz (452), Pará. Probably a *Vettius*, near *Lafresnayi*, Latr.
- „ *senex*, Plötz (459), Rio Janeiro. = *Paracarystus hypargyra*, H.-S., var.

- Hesperia rezia*, Plötz (466), Brazil. Genus? Probably a var. of *Hesperia almoda*, Hew., with the lighter markings of the under-side wanting. *Carystus metanira*, Mab., is no doubt synonymous.
- „ *aquilina*, Plötz (473), Loc.? Perhaps an *Artines*, near *æpitus*, Hübn.
- Cobalus catocala*, H.-S. (485), Loc.? Plötz's drawing of this species shows that it is not the ♀ of *Megistias isus*, Godm.
- Hesperia distigma*, Plötz (488), Loc.? Very like *Eutychide cingulicornis*, H.-S., and probably American.
- „ *sabina*, Plötz (490), Novo Friburgo. Unknown to me. Genus? The ♂ has a brand formed of three short streaks.
= *Cobalus virbius*, Cram.
- „ *hersilia*, Plötz (492), Rio Janeiro. = *Rhinthon alus*, Mab. Herrich-Schäffer's name has priority.
- Cobalus bistrigula*, H.-S. (497), Loc.? Near *Hesperia obeda*, Butl. Genus?
- Hesperia cyrus*, Plötz (498), Rio Janeiro. = *Pamphila angularis*, Möschl. Genus?
- „ *parvipuncta*, Möschl. (500), Surinam. There is a pair of this species from Cuba in the G. & S. coll.; the ♂, however, wants the two small hyaline spots on the primaries shown by Plötz. Genus?
- Goniloba hemeterius*, H.-S. (501), Loc.? Plötz figures the ♂ of a different species from Brazil under this name. *C. erebina*, Möschl., = *Hesperia cynea*, Hew., as stated in the 'Biologia,' under the genus *Rhinthon*.
- Carystus erebina*, Möschl. (502), Colombia. This may be the ♀ of Plötz's *C. erebina*, which cannot be included in the genus *Rhinthon*. Herrich-Schäffer's name has to be used in any case.
- Cobalus samedia*, H.-S. (503), Loc.? Belongs near *Æonus*. A ♂ from Bolivia in G. & S. coll. is very like it.
- Hesperia degener*, Plötz (504), Loc.? Belongs near *Æonus*. Two males from Venezuela in the G. & S. coll.
- „ *lydora*, Plötz (505), Venezuela. Very like *Oligoria maculata*, Edw. Unknown to me. ? American.
- Cobalus grossula*, H.-S. (507), Loc.? = *Oligoria maculata*, Edw.
- „ *deleta*, H.-S. (508), Loc.? Perhaps the ♀ of *H. cyrus*, Plötz.
- Hesperia duroca*, Plötz (509), Rio Janeiro. = *Carystus obeda*, Butl., ♂. Genus? Herrich-Schäffer's name has priority.
- Goniloba aphilos*, H.-S. (511), Loc.?

<i>Cobalus elegantula</i> , H.-S. (513), Loc.?	Genus? Several specimens of it from Brazil in the G. & S. coll.
<i>Hesperia quadrangula</i> , Plötz (514), Brazil.	A close ally of <i>C. elegantula</i> , H.-S. Genus? Also contained in the G. & S. coll.
<i>Cobalus subcordata</i> , H.-S. (515), Loc.?	Genus? Occurs in Guiana and Brazil.
<i>Hesperia olympia</i> , Plötz (516), Brazil.	= <i>Cobalus subcordata</i> , H.-S., var.
„ <i>norus</i> , Plötz (518), New Orleans.	= <i>Oligoria maculata</i> , Edw., var.
<i>Pamphila theogenis</i> , Capr.* (519), Surinam.	Not identified in the G. & S. coll.
<i>Cobalus dama</i> , H.-S. (522), Loc.?	Not identified in the G. & S. coll. ♀ looks like <i>Prenea vala</i> , Mab.
<i>Hesperia cornelius</i> , Latr. (525), Cuba.	Plötz's figure represents <i>Prenea</i> <i>ocola</i> , Edw., and his deter- mination is, perhaps, correct.
<i>Cobalus tripunctus</i> , H.-S. (526), Cuba.	Near <i>Megistias</i> . Occurs also in S. America. <i>Pamphila ancus</i> , Möschl., is the same species.
<i>Hesperia gura</i> , Plötz (528), Chi- riqui.	= <i>Eutychide midia</i> , Hew., and <i>Hes-</i> <i>peria favetta</i> , Plötz.
<i>Goniloba complana</i> , H.-S. (529), Loc.?	= <i>Eutychide midia</i> , Hew. Plötz's drawing is taken from a Nica- raguan specimen. Herrich- Schäffer's name has priority.
„ <i>corope</i> , H.-S. (530), Loc.?	= ♂ ♀, <i>Damas clavus</i> , Er.
<i>Hesperia eteocla</i> , Plötz (531), Rio Janeiro.	Probably a <i>Cobalus</i> , allied to <i>ga-</i> <i>bina</i> , Godm.
<i>Carystus orope</i> (Plötz), Capronn. (533), Botafogo, Brazil.	Unknown to me.
<i>Cobalus neroides</i> , H.-S. (534), Loc.?	Not identified in the G. & S. coll. ? American.
<i>Hesperia dalima</i> , Plötz (538), Brazil.	Probably belongs to <i>Vacerra</i> . There is a ♂ very like it in the G. & S. coll.
„ <i>dispersa</i> , Plötz (541), Cuba.	= <i>Lerodea eufala</i> , Edw. Descrip- tion unpublished?
„ <i>philerope</i> , Plötz (542), Brazil.	Not identified in the G. & S. coll.
„ <i>credula</i> , Plötz (551), Brazil.	Not identified in the G. & S. coll.
<i>Goniloba cubana</i> , H.-S. (556), Cuba.	Very like <i>Hesperia quadrangula</i> , Plötz, ♀. Genus?
<i>Hesperia osca</i> , Plötz (557), Caracas.	Not identified in the G. & S. coll.
„ <i>sabæa</i> , Plötz (560), Brazil.	A ♂ from Colombia in the G. & S. coll. very like this, but with small hyaline spots.
„ <i>ulrica</i> , Plötz (561), Rio Janeiro.	Not identified in the G. & S. coll.

* Figured by Capronnier in Ann. Soc. Ent. Belg. xvii. t. i. fig. 8.

- Hesperia xanthosticta*, Plötz (562), Pará. Not identified in the G. & S. coll.
- Goniloba complanula*, H.-S. (564), Loc. ? = *Turesis Lucasi*, F. Plötz's drawing is taken from a Chiriqui specimen.
- Hesperia yema*, Plötz (565), West Indies. = *Turesis Lucasi*, F. *Carystus hebon*, Mab., and *Pamphila silacea*, Möschl., are probably varieties of the same species. Description unpublished ?
- „ *verticalis*, Plötz (567), Brazil. Genus ? A female from Rio Janeiro in the G. & S. coll. may belong to this species, but it has only one outer spot on the primaries instead of two.
- „ *commodus*, Plötz (568), Brazil. Numerous specimens (♂ ♀) in the G. & S. coll. Genus ?
- „ *dyma*, Plötz (569), Brazil. Genus ? A pair in the G. & S. coll.
- „ *dedecora*, Plötz (571), La Guayra. Not identified in the G. & S. coll.
- Goniloba exoteria*, H.-S. (572), Loc. ? = *Amblyscirtes nanno*, Edw. Herich-Schäffer's name has priority.
- Hesperia Grotei*, Plötz (573), United States. = *Atrytonopsis hianna*, Scudd., ♂, var.
- „ *lochius*, Plötz (576), La Guayra. = *Lerema bipunctata*, Mab. Plötz's name has priority.
- „ *dido*, Plötz (577), Venezuela. Probably *Lerema accius*, S. & A., var., ♀.
- „ *phocylides*, Plötz (578), La Guayra. Probably a small ♀ of *Lerema accius*, S. & A.
- „ *edata*, Plötz (580), La Guayra. ? = *Megistias isus*, Godm., ♀. Plötz's name has priority.
- „ *tyrtæus*, Plötz (581), La Guayra. = *Megistias telata*, H.-S., var.
- „ *judas*, Plötz (584), Novo Friburgo, Brazil. Unknown to me. ? near genus *Atrytonopsis*.
- „ *wimico*, Plötz (585), Florida. = *Prenes panoquin*, Scudd. Description unpublished ?
- „ *pudorina*, Plötz (587), Brazil. Belongs near *Catia*. Numerous specimens (♂ ♀) in the G. & S. coll.
- „ *lupulina*, Plötz (588), Loc. ? = *Atrytone inimica*, Butl. & Druce.
- „ *lunata*, Plötz (589), Loc. ? = *Cymænes berus*, Mab. Plötz's name has priority.
- „ *silene*, Plötz (590), Loc. ? = *Cymænes berus*, Mab., var.
- „ *corticea*, Plötz (591), La Guayra. = *Megistias epiberus*, Mab. *Hesperia noctis* and *lysias*, Plötz, are doubtless varieties of the same species. Plötz's name *corticea* has priority over *epiberus*, Mab.
- „ *vetulina*, Plötz (597), Loc. ? = *Euphyes verna*, Edw., ♂.

<i>Hesperia lidia</i> , Plötz (607), Loc.?	Probably a var. of <i>Limochores manataqua</i> , Scudd.
„ <i>eulogius</i> , Plötz (608), Mexico.	= <i>Atrytone mellona</i> , Godm. Plötz's name has priority.
„ <i>vesuria</i> , Plötz (612), Jamaica.	A <i>Catia</i> , near <i>Druryi</i> , Latr. Also in G. & S. coll.
„ <i>gemma</i> , Plötz (613), Loc.?	= <i>Pamphila ravola</i> , S. & G., ♂, from Dominica, as already noted by Weymer and Mabilie. Belongs near the genus <i>Catia</i> . Plötz's name has priority.
„ <i>myrona</i> , Plötz (614), Venezuela.	= <i>Pamphila kenava</i> , Butl., ♂. Belongs near <i>Molo</i> .
„ <i>floridensis</i> , Plötz (616), Florida.	= <i>Limochores palatka</i> , Edw., ♂.
„ <i>amanda</i> , Plötz (617), Loc.?	Probably a var. of the N.-American <i>Erynnis ottoe</i> , Edw., ♂.
„ <i>lysias</i> , Plötz (623), Chiriqui.	= <i>Megistias epiberus</i> , Mab., and <i>Hesperia corticea</i> , Plötz. Plötz's names antedate that of Mabilie.
„ <i>mutius</i> , Plötz (625), Georgia.	= <i>Atrytone arogos</i> , Boisd., var., ♂.
„ <i>Huebneri</i> , Plötz (626), West Indies.	= <i>Atrytone vitellius</i> , F. Description unpublished?
<i>Pamphila magdalia</i> , H.-S. (631), Cuba.	This Cuban insect has stood for many years under the name <i>Thymelicus nanus</i> , H.-S., in the G. & S. coll. This latter species, according to Plötz's figure of it, is an <i>Ancyloxypha</i> . There is a specimen of <i>T. nanus</i> in Mr. Druce's collection.
<i>Hesperia magica</i> , Plötz (632), Cuba.	= <i>Choranthus radians</i> , Luc., var., ♂ ♀.
„ <i>ammonia</i> , Plötz (633), Loc.?	Perhaps a dark form of the ♀ of <i>Choranthus radians</i> , Luc.
„ <i>radians</i> , Luc. (634), Cuba.	This figure, if really belonging to <i>H. radians</i> , ♀, represents a dark, almost immaculate form.
„ <i>clara</i> , Plötz (635), California.	Apparently a pale var. of <i>Thymelicus brettus</i> , Boisd., ♂.
„ <i>combinata</i> , Plötz (636), Colombia.	= <i>Thymelicus vibex</i> , Hübn., ♂. Description unpublished?
„ <i>unna</i> , Plötz (637), Philadelphia.	= <i>Thymelicus brettus</i> , Boisd., ♂.
„ <i>emma</i> , Plötz (639), Chile.	= <i>Hylephila fasciolata</i> , Blanch., ♂ ♀. Description unpublished?
„ <i>ancora</i> , Plötz (641), Loc.?	= <i>Hylephila phylæus</i> , Drury, ♂ ♀.
„ <i>ignorans</i> , Plötz (647), Loc.?	Probably belongs to <i>Poltes</i> . There is a ♀ very like it, from Merida, Venezuela, in the G. & S. coll.
„ <i>dares</i> , Plötz (648), Loc.?	Belongs to <i>Thymelicus</i> . There are several specimens (♂ ♀) of this species, from Brazil and Bolivia, in the G. & S. coll.

- Hesperia lina*, Plötz (649), Bogotá. Probably belongs to *Polites*. There is a ♀ of it from Colombia in the G. & S. coll.
- „ *reticulata* (650), La Guayra and Chiriqui. = *Famphila suffenas* and *meton*, Mab. Plötz's name has priority. The species is referred to *Phlebodes* by Mabilie. The four specimens figured by Plötz seem to represent more than one species.
- „ *zachæus*, Plötz (652), Surinam. = *Atrytone melane*, Edw., var., ♂, with the secondaries immaculate above.
- Cobalus vitellina*, H.-S. (653), Loc.? = *Atrytone melane*, Edw. Plötz's figures (♂ ♀) were made from Mexican specimens. The two names were published in the same year, 1869.
- Hesperia erratica*, Plötz (656), Guatemala. = *Atrytone zabulon*, Boisd., ♂. Plötz's figures (655) of *A. zabulon*, from Buffalo, represent *A. hobomok*, Harr.
- „ *subreticulata*, Plötz (658), Loc.? = *Charephon rhesus*, Edw., ♀. Plötz's drawing was made from a Mexican specimen.
- „ *francisca*, Plötz (666), California and Mexico. = *Ochlodes agricola*, Boisd., ♂ ♀. The Mexican habitat requires confirmation.
- „ *amphissa*, Plötz (667), Venezuela. = *Atalopedes campestris*, Boisd., ♂ ♀.
- „ *grynea*, Plötz (670), Chile. = *Hylephila fulva*, Blanch., ♀.
- „ *augustus*, Plötz (676), Brazil. Probably belongs to *Atrytone*. There is a similar unnamed form from Brazil in the G. & S. coll.
- „ *angulina*, Plötz (677), Brazil. = *Hesperia oropa*, Hew., ♂. Belongs near *Metron*.
- Pamphila fasciata*, Möschl. (678), Surinam. = *Hesperia oropa*, Hew., ♀. Wrongly identified in the 'Biologia' as the ♀ of *Metron chrysogaster*, Butl. Möschler's name has priority.
- Hesperia ulphila*, Plötz (679), Mexico. An *Atrytone*, near *monticola*, Godm., with larger spots on the primaries and the under-side of the secondaries differently marked. The figures seem to represent two species.
- Pamphila lamida*, Möschl. (680), Colombia. Probably the ♀ of a species of *Atrytone*. Unknown to me.
- Hesperia statius*, Plötz (686), Venezuela. = *Serdis venezuelæ*, Westw., and *S. fulgens*, Mab., ♂ ♀.
- Pamphila antiqua*, H.-S. (687), Cuba. = *Pemiades utha*, Hew. Herrich-Schäffer's name has priority.
- Hesperia serina*, Plötz (697), Mexico. An Eastern species of *Padraona*, not Mexican.

- Hesperia tropica*, Plötz (698), Mexico. An Eastern species of *Padraona*. Java? is pencilled on the drawing.
- „ *exilis*, Plötz (706), California. Probably the ♀ of a species of *Vinius*, near *arignote*, Godm. Locality doubtless incorrect.
- „ *letis*, Plötz (710), Rio Janeiro. = *Vinius nicomedes*, Mab., ♂. Both names were published in 1883.
- Apustus argynnis*, Plötz (733), Brazil. Unknown to me. Genus?
- „ *odilia*, Plötz (734), Brazil. Near *Phlebodes unia*, Butl., from Haiti. Genus?
- „ *acroleuca*, Plötz (743), Brazil. Near genus *Artines*. Not in G. & S. coll.
- „ *interpunctata*, Plötz (753), Bahia and Pará. = *Callimormus vetula*, Mab.
- Papilio saturnus*, F. (755), S. Am. This figure, taken from a Pará specimen, seems to represent *Vorates decora*, H.-S.
- Apustus levina*, Plötz (760), Rio Janeiro. Genus? Unknown to me.
- „ *flavocostata*, Plötz (761), Rio Janeiro. Genus? An allied form from Guiana in the G. & S. coll.
- „ *ferrago*, Plötz (762), Loc. ? = *Padraona epictetus*, F., var.
- „ *eudesmia*, Plötz (763), Mexico. = *Padraona epictetus*, F., var.
- „ *vicinus*, Plötz (764), Loc. ? Genus? An allied form from Colombia in the G. & S. coll.
- „ *imerius*, Plötz (765), Brazil. Genus? From the "Kaden" collection in the G. & S. coll.
- „ *Prittwitzii*, Plötz (771), Mexico. = *Adopæoides simplex*, Godm. (nec Feld.). Felder's species, to judge from Plötz's figure (775), appears to be a species of *Zariaspes* unknown to me.
- „ *euphrasia*, Plötz (773), Mexico. = *Ancyloxypha arene*, Edw., ♀, dark var. *A. leporina*, Plötz, doubtless belongs to the same species.
- Goniloba singularis*, H.-S. (776), Cuba. = *Copaodes aurantiaca*, Hew., ♂. Plötz's figure is taken from a Mexican specimen. Herrich-Schäffer's name has priority.
- Thymelicus isidorus*, Plötz (780), Mexico. = *Oarisma powesheik*, Park., var.
- „ *nanus*, H.-S. (781), Cuba. An *Ancyloxypha*, near *arene*, Edw.
- Butleria mesoxantha*, Plötz (815), Venezuela. = *B. cypselus*, Feld., var., a species included by Mabille in his genus *Dalla*.
- „ *xantholeuca*, Plötz (816), Venezuela. = *B. dimidiata*, Feld., var., referred by Mabille to his genus *Dalla*.
- „ *ligilla*, Plötz (820), Loc. ? Very near *B. caicus*, Hew.
- „ *apertus*, Plötz (824), Loc. ? Near the Chilian *B. bissexguttata*, Philippi.

- Butleria pruna*, Plötz (828), San Domingo.
 There is an allied form from Rio Janeiro, with a similarly coloured underside, in the G. & S. coll.
- Carterocephalus flavimargo*, Plötz (829), Chile.
 = *Argopteron aureipenne*, Blanch., ♀.
- Cyclopides gyrans*, Plötz (843), Mexico.
 = *Dalla* (*Butleria*) *anomala*, Mab. Plötz's name has priority.
- „ *vitus*, Plötz (848), Chile.
 Probably belongs to *Butleria*, near *tripunctata*, Mab.
- Leucochitonea ligania*, Plötz (862), S. Am.
 = *Heliopetes alana*, Reak., var.
- „ *eulalia*, Plötz (865), Venezuela.
 = *Heliopetes nivella*, Mab. Plötz figures (864) a very similar form, almost entirely white above, from Cayenne, as *H. maimon*, F. Description unpublished?
- Pyrgus aconyta* (H.-S.), Plötz (871), Georgia.
 Very like *Heliopetes domicella*, Er., but greener. Description unpublished?
- Syrichthus valdivianus*, Plötz (875), Chile.
 A *Hesperia*, very near *H. trisignata*, Mab., and *H. notata*, Blanch.
- Pyrgus adjutrix*, Plötz (882), Buenos Aires.
 ? = *Hesperia montivaga*, Reak. Plötz's figures were taken from Mexican specimens.
- „ *insolatrix*, Plötz (887), Mexico.
 ? = *Hesperia notata*, Blanch.
- „ *albescens*, Plötz (889), Mexico.
 ? = *Hesperia montivaga*, Reak.
- „ *varus*, Plötz (900), Mexico.
 ? = *Hesperia montivaga*, Reak.
- „ *lycurgus*, Plötz (901), Centr. America.
 ? = *Hesperia notata*, Blanch.
- Carcharodus radiatus*, Plötz (907), Texas.
 = *Celotes nessus*, Edw.
- Ephyriades variegata*, Plötz (911), Rio Janeiro.
 Belongs to *Dicæus*, near *lacæna*, Hew.
- Pythonides dilucida*, Möschl. (916), Surinam.
 Unknown to me.
- „ *cæruleus*, Plötz (930), Brazil.
 = *Paches limæa*, Hew. (*iabesa*, Butl.).
- Hesperia tertullianus*, F. (935), Loc.?
 Plötz figures a ♀ specimen, from Minas Geraes, of *Leucochitonea lancea*, Hew., as this species. Genus?
- Pythonides alaricus*, Plötz (938), Bahia.
 A *Paramimus*, near *scurra*, Hübn. Not represented in the G. & S. coll.
- Syrichthus leucodesma*, Er. (939), Guiana.
 = *Paramimus scurra*, Hübn., var., without the red spot.
- Pythonides servatius*, Plötz (944), Pará.
 An *Atarnes*, near *Sallei*, Feld.
- „ *prudens*, Plötz (954), Surinam.
 Probably belongs to *Achlyodes*. From Cayenne and Chapada in G. & S. coll.

<i>Achlyodes nivonicus</i> , Plötz (956), Mexico.	Apparently = <i>Pellicia dimidiata</i> , H.-S., ♀. Figured from a damaged specimen.
„ <i>thiena</i> , Plötz (957), Loc.?	An <i>Achlyodes</i> , near <i>Fredericus</i> , Hübn. From British Guiana and Pará in the G. & S. coll.
„ <i>serapion</i> , Plötz (959), Novo Friburgo.	Not identified in the G. & S. coll.
„ <i>plumbago</i> , Plötz (960), Loc.?	= <i>Achlyodes chalybs</i> , Mab. Plötz's name has priority. From Pará and Ega in the G. & S. coll.
„ <i>protius</i> , Plötz (961), Brazil.	= <i>Achlyodes pulverea</i> , Mab. From Rio Janeiro in the G. & S. coll.
„ <i>gorgona</i> , Plötz (963), Guatemala.	= <i>Chiomara gesta</i> , H.-S., var.
„ <i>basigutta</i> , Plötz (964), S. Am.	= <i>Chiomara punctum</i> , Mab.
„ <i>noctula</i> , Plötz (965), Pará.	= <i>Chiomara muthrax</i> , Möschl.
<i>Hesperia bigutta</i> , Prittw. (977), Loc.?	= <i>Chiomara gesta</i> , H.-S., var.
<i>Achlyodes blanda</i> , Plötz (980), Loc.?	= <i>Chiomara gesta</i> , H.-S., var.
„ <i>servius</i> , Plötz (981), Brazil.	= <i>Pythonides hyacinthinus</i> , Mab.
„ <i>erisichthon</i> , Plötz (982), Loc.?	A <i>Pythonides</i> , near <i>phila</i> , G. & S.
„ <i>cnidus</i> , Plötz (983), Loc.?	A <i>Pythonides</i> , unknown to me.
„ <i>balma</i> (H.-S.), Plötz (984), Brazil.	= <i>Pythonides zera</i> , Butl. Description unpublished?
<i>Antigonus sericus</i> , Plötz (990), Chiriqui.	= <i>Systasea corrosa</i> , Mab.
„ <i>liborius</i> (H.-S.), Plötz (991), Bahia.	A <i>Systasea</i> , near <i>corrosa</i> , Mab. From Chapada in G. & S. coll. Description unpublished?
„ <i>bipuncta</i> , Plötz (995), Mexico.	= <i>Theagenes lactifera</i> , Butl., ♀, var. Plötz's figures (994) of <i>T. noctua</i> , Feld., ♂ ♀, agree with <i>T. lactifera</i> , Butl.
„ <i>aura</i> , Plötz (998), Brazil.	= <i>Diphoridas dichrous</i> , Mab. This species may be the <i>Hesperia palpalis</i> of Latreille.
„ <i>badia</i> , Plötz (999), Chanchamayo.	= <i>Ebrietas infanda</i> , Butl.
„ <i>robigus</i> , Plötz (1006), S. Am.	= <i>Echelatus luctuosus</i> , G. & S. Plötz's name has priority.
<i>Achlyodes auxo</i> , Möschl. (1008), Colombia.	= <i>Camptopleura theramenes</i> , Mab.
<i>Antigonus patens</i> , Plötz (1009), Rio Janeiro.	Unknown to me. Perhaps a species of <i>Gorgophone</i> .
„ <i>torticinus</i> , Plötz (1010), Panama and Venezuela.	♂ = <i>Ebrietas anacreon</i> , Staud.; ♀ = <i>E. infanda</i> , Butl., or <i>E. isus</i> , Mab.

- Antigonus elaudia* (H.-S.), Plötz (1012), La Guayra. An *Ebrietas*, near *ecliptica*, Butl. Description unpublished?
- „ *triseriata* (H.-S.), Plötz (1013), Venezuela. An *Ebrietas*, probably a var. of *E. elaudia*.
- „ *eremita*, Plötz (1014), S. Am. ? Belongs to *Ebrietas*. Unknown to me.
- „ *simplicior*, Plötz (1015), Brazil. Belongs to *Echelatus*. Type is a ♂.
- „ *alburnea*, Plötz (1016), Pará. An *Echelatus*, and probably the ♀ of *E. simplicior*. There is a specimen of it from Paraguay in the G. & S. coll.
- „ *cajus*, Plötz (1023), Peru. Belongs to *Eudamidas*. There are three specimens of it from Peru in the G. & S. coll.
- „ *adamas*, Plötz (1031), Brazil. ♂ = *Sostrata leucorrhoea*, G. & S.; ♀ = *S. scintillans*, Mab.
- Thanaos zarucco*, Luc. (1035), Cuba. = *Thanaos martialis*, Scudd. Lucas's name has priority.
- Antigonus diogenes*, Plötz (1041), Cuba. Belongs to *Thanaos*. Also from Cuba in the G. & S. coll.
- „ *heteropterus*, Plötz (1044), Brazil. Belongs to *Thanaos*. There is a long series of this species from Chapada in the G. & S. coll.
- „ *jamaicensis*, Plötz (1045), Jamaica. Belongs to the genus *Melanthes*, Mab. Very near the variable *M. zephodes*, Hübn. (figs. 1037, 1038 of Plötz), from Cuba and the Bahamas. The ♂ only of the Jamaican insect is figured by Plötz.
- Nisoniades flavipalpis*, Plötz (1051), Copiapo. Not identified in the G. & S. coll. Genus *Staphylus*? Figure taken from a ♂.
- „ *eusebius*, Plötz (1053), Centr. America. = *Staphylus giselus*, Mab.
- Achlyodes trochilus*, Hopff. (1055), Peru. Belongs to *Gorgopas*. This insect is identified as *Hesperia chlorocephala*, Latr., in the G. & S. coll.
- Hesperia chlorocephala*, Latr. (1056), Brazil. Plötz's figure of this species represents a *Staphylus*.
- Nisoniades auricapilla* (Hopff.), Plötz (1057), Pará. Genus? Not *Staphylus aurocapilla*, Staud. Description unpublished?
- „ *norica*, Plötz (1059), Brazil and Cayenne. Genus? Not identified in the G. & S. coll.
- „ *eta*, Plötz (1060), Chiriqui and Brazil. A *Staphylus*, ♂. ? = *mazans*, Reak. The figure is taken from a Brazilian specimen.
- „ *aterea*, Plötz (1062), Rio Janeiro. = *Systasea incisa*, Mab., var.
- Tagiades tæniatus*, Plötz (1068), Oaxaca. = *Systasea pulverulenta*, Feld., var.
- „ *doria*, Plötz (1075), Mexico. A *Timochreon*, and probably a var. of *satyrus*, Feld.

<i>Tagiades monophthalma</i> , (1077), Brazil.	Plötz	Belongs to <i>Cyclosæmia</i> . From Parana in the G. & S. coll.
" <i>diophthalma</i> , (1078), Loc. ?	Plötz	A <i>Cyclosæmia</i> , near <i>earina</i> , Hew.
" <i>jacobus</i> , Rio Janeiro.	Plötz (1082),	Belongs to <i>Cyclosæmia</i> .
" <i>morvus</i> , Brazil.	Plötz (1083),	Belongs to <i>Cyclosæmia</i> . A specimen very like it from Entre Rios in the G. & S. coll.
" <i>hiera</i> , Loc. ?	Plötz (1103),	= <i>Celænorrhinus eligius</i> , Cram.
<i>Phareas ferrugineus</i> (1121), Bahia.		Probably a <i>Lignyostola</i> , near <i>despecta</i> , Butl. Unknown to me.
" <i>cervinus</i> , Loc. ?	Plötz (1122),	= <i>Eudamus pausias</i> , Hew., var. Genus ?
" <i>epimethea</i> (<i>epininthea</i>), Plötz (1123), Brazil.		Belongs to <i>Lignyostola</i> .
" <i>Annæ</i> , Plötz (1135), Pará.		= <i>Entheus lemna</i> , Butl., ♀.
<i>Entheus concinna</i> , Plötz (1142), Pará.		Unknown to me.
<i>Erycides imbreus</i> , Plötz (1198), Centr. America.		A <i>Phocides</i> , near <i>alemon</i> , Cram. Unknown to me.
<i>Eudamus batabano</i> , Luc. (<i>man- cinus</i> , H.-S.) (1200), Cuba.		Belongs to <i>Phocides</i> .
<i>Erycides erebus</i> , Plötz (1201), Bahia.		Probably a <i>Tarsoctenus</i> . Unknown to me.
" <i>Herrichi</i> , H.-S. (1204), Loc. ?		A <i>Tarsoctenus</i> , near <i>plutia</i> , Hew.
" <i>lincea</i> , H.-S. (1209), Loc. ?		Very like <i>Nascus phocus</i> , Cram., ♂. The drawing is marked = <i>E. grandimacula</i> , Mab., a Brazilian insect. Herrich-Schäffer's name has priority.
<i>Pyrrhopyge Martii</i> , Plötz (1237), Brazil.		Probably belongs to <i>Sarbia</i> .
<i>Myscelus epigona</i> , H.-S. (1248), Loc. ?		This species was wrongly identified in the 'Biologia' as synonymous with <i>Rhabdoides epigona</i> , Butl., and the reference to it in that work must be erased. <i>M. orbis</i> , Mab., is very nearly related to <i>M. epigona</i> , H.-S. Plötz's figures are taken from Venezuelan specimens.
<i>Pyrrhopyge denticulata</i> , H.-S. (1289), Loc. ?		A <i>Mysoria</i> , near <i>pelota</i> , Plötz. Plötz's drawing was made from a Rio Negro specimen.
<i>Goniurus Platowii</i> , Plötz (1317), Loc. ?		Probably a var. of <i>Eudamus esmeraldus</i> , Butl., with the dark bands on the underside of the secondaries coalescent.
" <i>brevicauda</i> , Plötz (1319), Chiriqui.		= <i>Thymeles eniopeus</i> , G. & S. Plötz's name has priority.
" <i>dominicus</i> , Plötz (1321), Loc. ?		= <i>Eudamus albimargo</i> , Mab.
" <i>gideon</i> , Plötz (1324), Loc. ?		= <i>Goniurus calus</i> , Cram.

<i>Eudamæus tellus</i> , Plötz (1327), Buenos Aires.	A <i>Nascus</i> , near <i>cephise</i> , H.-S.
„ <i>ignatius</i> , Plötz (1328), Loc.?	Drawing missing.
„ <i>albociliata</i> , Plötz (1329), Colombia.	„ „
<i>Telemiades dianina</i> , Plötz (1331), S. Am.	„ „
<i>Netrocoryne coronus</i> , Plötz (1332), Chiriqui.	„ „
<i>Telegonus corentinus</i> , Plötz (1333), Surinam.	„ „
„ <i>ophiuchus</i> , Plötz (1334), Surinam.	= <i>Bungalotis sebrus</i> , Feld., ♂.
„ <i>mutius</i> , Plötz (1335), Colombia.	= <i>Bungalotis salatis</i> , Cram., ♀, var.
„ <i>pertica</i> , Plötz (1336), S. Am.	Near <i>Lychnuchus clearchus</i> , Plötz, but with three subapical spots and an oblique band on the primaries white.
<i>Arteurotia meris</i> , Plötz (1339), Colombia.	Probably a <i>Pellicia</i> .
„ <i>epipola</i> , Plötz (1340), Cayenne.	= <i>Spioniades clinias</i> , Mab. Genus?
<i>Æthilla Weymeri</i> , Plötz (1342), Loc.?	= <i>Telegonus chiriquensis</i> , Staud., and <i>T. meretrix</i> , Hew. Plötz's drawing is taken from a Chiriqui specimen.
<i>Hesperia caura</i> , Plötz (1353), Surinam.	May belong to <i>Papias</i> .
„ <i>Edlichi</i> , Plötz (1354), Loc.?	Genus? Type is ♀.
„ <i>zalma</i> , Plötz (1355), Panama.	Possibly = <i>Mnasilus penicillatus</i> , Godm.
„ <i>beda</i> , Plötz (1357), Blumenau.	Genus? Not unlike <i>Perimeles remus</i> , F.
„ <i>camposa</i> , Plötz (1360), Brazil.	Belongs to <i>Pyrrhopygopsis</i> . Not represented in the G. & S. coll.
„ <i>quispica</i> , Plötz (1361), Peru.	A <i>Pyrrhopygopsis</i> , near <i>socrates</i> , Mén., but with yellow cilia and a black head.
„ <i>angulis</i> , Plötz (1367), Panama.	= <i>Damas clavus</i> , Er., ♂. <i>Proteides cervus</i> , Möschl., is the ♀ of the same species.
„ <i>luscinia</i> , Plötz (1369), Blumenau.	Belongs to <i>Perichares</i> , near <i>agrippa</i> , Godm., ♂.
„ <i>gila</i> , Plötz (1370), Arizona.	= <i>Cogia hippalus</i> , Edw., ♂.
„ <i>licia</i> , Plötz (1372), Loc.?	= <i>Xenaides orchamus</i> , Cram., ♂, var.
„ <i>cinerita</i> , Plötz (1378), Brazil.	Not identified in the G. & S. coll.
„ <i>diana</i> , Plötz (1383), San Paulo.	„ „ „
„ <i>hilda</i> , Plötz (1384), Blumenau.	„ „ „

<i>Hesperia uruba</i> , Plötz (1385), Brazil.	Not identified in the G. & S. coll.
„ <i>zygia</i> , Plötz (1388), Loc. ?	? American. Unknown to me.
„ <i>yva</i> , Plötz (1389), Loc. ?	Very like <i>Cobalus argus</i> , Möschl. The specimen figured is from Blumenau, Brazil.
„ <i>angellus</i> , Plötz (1393), Chiriqui.	Perhaps the ♀ of <i>Halotus saxula</i> (Mab.), Godm., with whiter spots. Plötz's name has priority.
„ <i>velleius</i> , Plötz (1394), Surinam.	= <i>Rhinthon bistrigula</i> , H.-S. (<i>alus</i> , Godm.).
„ <i>corisana</i> , Plötz (1395), Surinam.	Unknown to me.
„ <i>zeppa</i> , Plötz (1397), Surinam.	„ „
„ <i>æthra</i> , Plötz (1399), Surinam.	„ „
„ <i>mulla</i> , Plötz (1401), Surinam.	„ „
„ <i>favetta</i> , Plötz (1408), Chiriqui.	= <i>Eutychide complana</i> , H.-S. (<i>midia</i> , Hew., <i>gura</i> , Plötz). Plötz's figure of upperside too green, as in many other cases.
„ <i>conta</i> , Plötz (1410), Minas Geraes.	Perhaps = <i>Pamphila ancus</i> , Möschl.
„ <i>autumna</i> , Plötz (1411), Centr. America.	= <i>Cobalopsis edda</i> , Mab., ♂. <i>H. pelora</i> , Plötz, is apparently a large ♀ of the same species, and this is a still older name, both antedating that of Mabille.
„ <i>cabella</i> , Plötz (1419), Puerto Cabello.	= <i>Rhinthon chiriquensis</i> , Mab., ♂.
„ <i>subviridis</i> , Plötz (1426), San Paulo.	Not identified in the G. & S. coll.
„ <i>noctis</i> , Plötz (1431), Chiriqui.	= <i>Megistias epiberus</i> , Mab., dark var. See note under <i>Hesperia lysias</i> , Plötz (fig. 623).
„ <i>gereon</i> , Plötz (1432), Pará.	Not identified in the G. & S. coll.
„ <i>aurinia</i> , Plötz (1436), Jamaica.	Probably belongs to <i>Limochores</i> or <i>Serdis</i> . Not contained in the G. & S. coll.
„ <i>Zenckii</i> , Plötz (1437), Mexico.	= <i>Thymelicus vibex</i> , Hübn., ♂, vars. <i>H. combinata</i> , Plötz (636), is the same species.
„ <i>monica</i> , Plötz (1439), Blumenau.	An <i>Atrytone</i> , near <i>eulogius</i> , Plötz. There is a ♂ of it, from Novo Friburgo, in the G. & S. coll.
„ <i>piso</i> , Plötz (1440), Panama.	= <i>Atrytone rolla</i> , Mab., ♂.
„ <i>zela</i> , Plötz (1441), Monte Video.	Probably belongs near <i>Atrytone</i> . Not identified in the G. & S. coll.
„ <i>hyjana</i> , Plötz (1443), Chile.	= <i>Hylephila fulva</i> , Blanch., ♂.

- Hesperia morganta*, Plötz (1444), S. Am. = *Thymelicus brettus*, Boisd., ♂, var. The specimen figured by Plötz is from North America.
- „ *catilina*, Plötz (1445), Blumenau. Genus? *H. sulfurina*, Mab., is probably the same species; and if this is the case, Mabilie's name has priority.
- „ *genoa*, Plötz (1446), Nevada. ? = *Polites sabuleti*, Boisd., var.
- „ *axius*, Plötz (1448), Colorado. Belongs to *Chærephon*, and probably = *rhesus*, Edw., ♂ ♀.
- „ *librita*, Plötz (1453), Panama. = *Augiades hecale*, Godm. Plötz's name has priority.
- „ *hyboma*, Plötz (1455), Minas Geraes. Perhaps belongs to *Padraona*. Underside of secondaries marked very much as in *Phe-miades propertius*, F.
- Pamphila humeralis*, Mab. (1456), Pará. Near *Molo*. Not in G. & S. coll.
- Apaustus vopiscella*, Plötz (1471), Minas Geraes. Not identified in the G. & S. coll.
- „ *facilis*, Plötz (1474), Surinam. Probably *Mnasitheus simplicissima*, H.-S., ♀.
- „ *scheria*, Plötz (1475), Pará. Genus? A specimen (♂) from the Amazons in the G. & S. coll.
- „ *alsimo*, Plötz (1479), Surinam. Probably = *Callimormus gracilis*, Feld.
- „ *polita*, Plötz (1481), Loc.? A *Callimormus*, near *juventus*, Scudd.
- „ *fabulinus*, Plötz (1482), Surinam. Probably a *Callimormus*, near *vetula*, Mab.
- „ *bebarus*, Plötz (1483), Colombia. Genus? A ♀ from the Lower Amazons in the G. & S. coll. very near it.
- „ *servilius*, Möschl. (1487), Surinam. Genus? Not identified in the G. & S. coll.
- „ *sulla*, Möschl. (1488), Colombia. Not identified in the G. & S. coll.
- Heteropterus Jelskyi*, Ersch. (1490), Peru. Unknown to me.
- Apaustus krexos*, Plötz (1491), Pará. Not unlike *A. imerius*, Plötz (765).
- „ *matuta*, Plötz (1498), Loc.? Perhaps an ally of *Hesperia reticulata*, Plötz. Genus?
- Thymelicus macra*, Plötz (1500), N. Am. = *Copaedessingularis*, H.-S. (*aurantiaca*, Hew., *procris*, Edw.), var.
- „ *tucumanus*, Plötz (1503), Cordova. Belongs to *Ancyloxypha*, and probably = *arene*, Edw., ♀.
- Cyclopides facetus*, Plötz (1530), Loc.? A *Butleria*, near *flavomaculata*, Blanch. Specimen figured is from Chile, and there is one from Mendoza in the G. & S. coll.
- Pythonides bianca*, Plötz (1535), Loc.? = *Helioptes petrus*, Hübn., and not *H. arsalle*, L., as queried in the 'Biologia.'

- Leucochitonea pampina*, Plötz (1536), Buenos Aires. Belongs to *Heliopetes*. From Corumba, Chapada, and Paraguay in the G. & S. coll. = *Heliopetes domicella*, Er.
- Pyrgus Willi*, Plötz (1537), Minas Geraes. Belongs to *Hesperia*. Plötz's figure is taken from a Porto Rico specimen.
- „ *crisia*, H.-S. (1550), Cuba. = *Chiomara asychis*, Cram., var.
- Pythonides dilucida*, Möschl. (1552), Surinam. = *Chiomara asychis*, Cram., var.
- Achlyodes onorbo*, Möschl. (1553), Surinam. A *Chiomara*, near *asychis*, Cram.
- Pythonides (Papilio) cerialis*, Cram. (1555), S. Am. Plötz figures a specimen of *P. assecla*, Mab., from Brazil, as this species. There is a specimen of the latter from Chontales in the G. & S. coll., hitherto overlooked.
- Pythonides portulana*, Plötz (1557), S. Am. = *P. festivus*, Er.
- Achlyodes fatinitza*, Plötz (1558), Colombia. Not identified in the G. & S. coll.
- „ *ancholis*, Plötz (1559), Colombia. = *Hesperia tetra*, Mab. Referred by Mabilie to his genus *Bolla*.
- Antigonus æclydes*, Plötz (1560), Colombia. = *Æthilla echina*, Hew., var.
- „ *tolinus*, Plötz (1561), Colombia. Probably belongs to *Gorgophone*, near *varius*, Mab., ♂.
- „ *obliqua*, Plötz (1562), Loc. ? Belongs to *Anastrus*. There is a specimen of it from Santarem in the G. & S. coll.
- „ *zorilla*, Plötz (1567), Panama. Closely related to *Bolla gisehus*, Mab., but smaller and with the two small hyaline spots on the primaries well separated. Specimen figured is a ♂.
- Nisoniades tucumanus*, Plötz (1568), Cordova. Belongs to *Staphylus* or *Bolla*. ♂ has a costal fold.
- „ *astur*, Plötz (1569), Surinam. A species with peculiarly formed antennæ (if correctly drawn) and a costal fold. Unknown to me.
- „ *bibiana*, Plötz (1571), Colombia. Belongs to *Anisochoria*, near *sublimbata*, Mab.
- „ *cæcus*, Plötz (1572), Loc. ? A *Cyclosamia*, near *herennius*, Stoll.
- Tagiades chacona*, Plötz (1573), Panama. An *Ebrietas*, near *ecliptica*, Butl., with bluish grey on the outer part of the secondaries beneath. Figure not good.
- „ *monartus*, Plötz (1579), Panama. = *Celænorrhinus chiriquensis*, Mab. Plötz's name has priority.
- „ *vincula*, Plötz (1580), Panama. Probably a large ♀ of *Staphylus mazans*, Reak. There is a very similar unnamed specimen from Caché, Costa Rica, in the G. & S. coll.

<i>Phareas serenus</i> , Plötz (1587), Loc. ?	= <i>Entheus eumelus</i> , Cram., ♀.
<i>Pyrrhopyge porus</i> , Plötz (1595) Colombia.	= <i>Mimoniades pityusa</i> , Hew.
„ <i>parima</i> , Plötz (1597), Surinam.	Belongs to <i>Yanguna</i> . Not represented in the G. & S. coll.
„ <i>leucoloma</i> , Ersch. (1599), Peru.	Very near <i>P. sergius</i> , Hopff., but with the white patch on the underside of the secondaries extending further inward.

XXV.—*Function and Form with Reference to the Hand and Foot in Man and Apes.* By DUNCAN C. L. FITZWILLIAMS, M.D., Ch.M., F.R.C.SS. Ed. & Eng., Demonstrator of Anatomy, King's College, London; Casualty Officer, Hospital for Sick Children, Great Ormond Street.

[Plate V.]

THROUGH the kindness of Professor Cunningham I was enabled to carry out a systematic anatomical study of a gibbon (*Hylobates agilis*) in his possession. In this paper I wish to deal only with the description of the hands and feet of the animal, and incidentally to draw attention to the differences existing in the hands and feet of man.

The orang-utangs, chimpanzees, gorillas, and gibbons are the four great tribes which form the anthropoid family. The larger members of the family resemble man in stature and outward form more nearly than the gibbon, but on closer investigation the gibbon presents certain characteristics which have led many eminent anatomists to place this ape next to man in the scale of animal life. With the single exception of man, the gibbon can assume the erect posture more completely than any other animal.

The Hand.

The hand of the gibbon (Pl. V. fig. 1, A) is remarkable for the great length it possesses in comparison with its width. Measured from the crease in front of the wrist to the tip of the longest finger the length amounts to $15\frac{1}{2}$ cm., but the breadth of the widest part, just above the root of the little finger, does not exceed $3\frac{1}{4}$ cm. The length is due to the development both of the metacarpals and phalanges.

The thenar and hypothenar eminences are small; indeed, so feeble is the development of the latter that it can scarcely



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