SYNONYMICAL NOTES ON NEOTROPICAL FLIES OF THE FAMILY TABANIDAE (DIPTERA)

By

G. B. FAIRCHILD
Gorgas Memorial Laboratory, Panama

(Publication 4225)

CITY OF WASHINGTON
PUBLISHED BY THE SMITHSONIAN INSTITUTION
JANUARY 11, 1956
THE LORD BALTIMORE PRESS, INC.
BALTIMORE, MD., U. S. A.
SYNONYMICAL NOTES ON NEOTROPICAL FLIES OF THE FAMILY TABANIDAE (DIPTERA)¹

BY G. B. FAIRCHILD
Gorgas Memorial Laboratory, Panama

The nomenclature of the Neotropical flies of the family Tabanidae has long been in a state of great confusion, in spite of the efforts of a number of students to bring it into some sort of order. The main difficulties seem to have been the lack of adequate collections in any one place and the very numerous inadequate descriptions by several of the older authors. The existing catalogs of Kertész (1900, 1908) and Surcouf (1921) for the Tabanidae of the World are quite uncritical and are chiefly lists of names. The catalog of the Neotropical Tabanidae prepared by Kröber (1934) was a great step forward, but subsequent work has modified greatly the understanding of generic and higher categories, and he failed in many cases to appreciate the value of a study of the type specimens of the older descriptions. His catalog, therefore, although extremely useful, has often proved unreliable.

During the fall of 1953 I was enabled, through the aid of a generous travel grant from the Marsh Fund of the National Academy of Sciences, to visit the British Museum in London and the Muséum d'Histoire Naturelle in Paris. The trip was undertaken for the purpose of studying and comparing specimens with the types of Neotropical Tabanidae (horse flies and allies) contained in the collections of the British Museum in London and the Muséum d'Histoire Naturelle in Paris. The Neotropical species of Tabanidae described by Francis Walker between 1848 and 1860, by M. J. Macquart between 1834 and 1855, and by J. M. F. Bigot in 1892 have been a serious stumbling block to students for many years. Not only did these three authors among them describe some 300 species, but their descriptions were, for the most part, so superficial and inadequate that a large proportion of their names have remained unrecognized or misinterpreted. Furthermore, some 27 generic names have been based on these species, often without adequate knowledge of their characters. Although the primary

¹ Published through a grant from the Gorgas Memorial Institute of Tropical and Preventive Medicine, Incorporated.
purpose of the trip was to study the type specimens of these three authors, most of which are deposited in either London or Paris, it was felt important to examine all other types of Neotropical Tabanidae available in these two institutions.

Since time would not permit the careful description and drawing of all the species likely to be found, it was felt of utmost importance to take over for comparison specimens of as many species as possible. Through the courtesy of the authorities of the Museum of Comparative Zoology at Cambridge, Mass., and of the U. S. National Museum, a collection of nearly 600 species of Neotropical Tabanidae was secured and taken to London and Paris.

Although not a few of the types I had hoped to see have been lost or destroyed in the course of the nearly 100 years since they were described, I was fortunate in being able to see a good many additional species of more recent date which I had not expected to find. These included a number of the types of species described by Osten Sacken, Williston, Townsend, Surcouf, Ricardo, Summers, and Kröber. I was able to bring back specimens matched with the types of about 220 Neotropical species, fairly complete notes, in some cases with drawings, on a further 107 types, and miscellaneous notes on an additional 60 to 70 species, not types, of which I had not previously seen specimens.

It is a pleasure to acknowledge my indebtedness to Dr. Alexander Wetmore of the National Academy of Sciences, who facilitated the procuring of travel funds, and to Dr. Joseph Bequaert and Dr. Alan Stone for their generosity in lending material in the collections under their care. Capt. N. D. Riley, C. B. E., Keeper of Insects at the British Museum, most generously placed the facilities of that institution at my disposal; and I am most especially grateful for the invaluable help and cordial hospitality of H. Oldroyd and Paul Freeman of the Diptera section of the Museum. At Paris, M. E. Seguy, custodian of the Diptera section in the Muséum d’Histoire Naturelle, put the collections at my complete disposal and did everything possible to make my short stay pleasant and profitable. The drudgery of taking dictation and typing the extensive notes fell to my wife, without whose invaluable assistance the work could not have been completed.

The Tabanidae at the British Museum are arranged primarily on a taxonomic basis, the various groups following one another irrespective of locality. Each drawer is marked with the genera it contains and a colored slip indicating the geographical regions represented. There is also a card catalog of the species in the collection. All types are incorporated in the general collection but are marked with small circular
labels, usually red for primary types, green for cotypes, and yellow for paratypes.

In its present state, the arrangement and labeling are largely the work of E. E. Austen, the late curator, and H. Oldroyd, the present curator. Austen is largely responsible for verifying Walker’s types, which, until his time, were not marked as such. The Bigot collection, containing Macquart and Bigot types, was remounted on double mounts after receipt by the British Museum. In most cases only one specimen of a series bore a label—those of Macquart which Bigot had pasted onto larger labels, or his own folded and often much defaced labels. In repinning this material great care seems to have been taken to put the labels back on the same specimens, though in one or two cases there appears to have been an exchange of labels. Mr. Oldroyd has done the great service of marking all the types with distinctively colored labels, a procedure that greatly facilitated their recognition.

At Paris, the collections are housed in large glass-topped cardboard boxes. There has been no effort to rearrange the Tabanidae, and the collection is really a series of separate collections. Although most of the Tabanidae are together, the Macquart collection is in its own series of boxes, not mixed with subsequent additions. Surcouf’s material is also separate. This policy seems the only sound one under the prevailing conditions, as M. Seguy is in charge of several other orders besides Diptera, and has but one assistant. The Meigen collection of Diptera, as well as several other largely European collections, is thus preserved. For the most part, the Macquart types are not labeled as such and bear only their original labels, so that reference to the original descriptions is often necessary. The box labels under which the species stand are, I believe, a later addition, and are not very helpful or consistent. Since most of the specimens are types or easily recognized species, determination as to which specimen is a type is usually not difficult. The Macquart collection is also divided geographically, the Neotropical, Nearctic, etc., species placed together. Owing to lack of realization that Mexican material may have been considered Nearctic, I quite likely missed seeing the types of several of Macquart’s species, as I lacked time to go through other than the Neotropical boxes.

Most of Walker’s Neotropical species were described in the “List of the Specimens of Dipterous Insects in the Collection of the British Museum,” which is here abbreviated to “List” with volume, page, and year. His other publications are more fully cited. Macquart’s species appeared mostly in a series of articles entitled “Diptères Exotiques Nouveaux ou Peu Connus,” here abbreviated to “Dipt. Exot.” This
series appeared more or less simultaneously in the Mémoires de la Société Royale des Sciences, de l' Agriculture et des Arts de Lille, and in a separately published form put out by Librairie Encyclopédique de Roret, Paris. There is no difference in the text, but the pagination is different, and in some cases the reprint is of an earlier or later date. I have not been able in all cases to check as to which edition a given page number refers, but since the work is adequately indexed in both editions, this is not of great importance. The possible conflict between Supplement 4 of Macquart's work and the Diptera Saundersiana of Walker, both dated 1850, does not seem to concern any names for Neotropical Tabanidae. Mr. Oldroyd felt that since Macquart's paper was read in June 1849, though not published until sometime in 1850, while Walker's paper appeared after September 12, 1850, it is best to assume priority for Macquart's names where conflict occurs. Nearly all of Bigot's species were described in an article entitled "Descriptions de Diptères Nouveaux" published in 1892 in Mém. Soc. Zool. France, vol. 5, and will be cited here merely by the date and page. Secondary references will be cited only by author and date, the full reference cited only in the bibliography.

Although fairly detailed notes, and in some cases camera lucida sketches, of nearly all the types examined were made, it has seemed better to present the results in the more condensed form of an annotated list of the types examined. Much information that might aid in the determination of specimens has thus had to be omitted, and the list is primarily of nomenclatorial interest. It is planned, as time and opportunity permit, to make the more interesting and perhaps more valuable descriptive matter of the notes available, together with figures of homotypes, in connection with planned revisionary studies now being undertaken in collaboration with Dr. C. B. Philip. In the meantime, copies of the full notes will be deposited in the U. S. National Museum and the British Museum for reference purposes.

I have refrained from specifically selecting lectotypes of species with more than one specimen in the type series. To do so at the time of examination would have used more time in writing labels than I could spare; to do so now would lead me into explanations and justifications for my action in each case and would unduly lengthen this paper. In cases where more than one species is obviously involved in the type series, I have indicated which one I believe should represent the name.

The species discussed here are nearly all listed by Kröber (1934) in his catalog of the Neotropical Tabanidae. A few species listed by him have been omitted here, such as T. pruinosis Bigot from Mexico, fully treated by Philip (1950), and T. parvidentatus Macquart, dis-
The type material of the following 64 species was not found either in London or Paris. The species are listed below alphabetically, with place and date of publication, locality, and collection as originally given where this information is available to me. Several names are homonyms and so indicated. Species for which no locality was originally given, or where the author states his ignorance of the provenance of the specimen, are indicated by "Loc.?" In many cases these species may not have been Neotropical, and in the case of the collection at Paris, no search of the Old World or Nearctic collections was made for them. In London, the card catalog of types was checked, and so it is reasonably certain that Walker's species now missing from the collections are truly lost. In some cases additional notes on status have been added.

*Dictyocera abicans* Wlk. 1848, List, 1 : 191. West Indies, B. M. Seen by Ricardo (1904) but subsequently lost (Bequaert, 1940).

*Tabanus advena* Wlk. 1850, Newman's Zoologist, 8, App., p. lxix. Loc.? B. M.


*Tabanus argentifrons* Wlk. 1848, List, 1 : 186. Loc.? B. M.


*Tabanus chrysocerus* Wlk. 1854, List, 5, Suppl. 1 : 327. Brazil. B. M.

*Tabanus despectus* Kröber 1930, Dipt. Pat. S. Chile, 5 (2) : 158. Chile. B. M. (Paratype.) This and several other species described in same paper appear
not to have been returned to B. M. by Kröber. *T. despectus* Fchld. 1942 is a homonym, but proposal of a replacement name now seems unnecessary, as the species is uncertainly distinct.


*Tabanus flammanis* Wilk. 1848, List, 1: 153. Loc.? B. M.

*Tabanus flavivaribis* Macq. 1845, Dipt. Exot., Suppl. 1: 169. Cayenne. Coll. Spinola. Kröber (1930h) claims to have seen the type and places *guyanensis* Macq. as a synonym. The latter has, however, page priority.


*Tabanus formosus* Wilk. 1848, List, 1: 148. Loc.? B. M.


*Tabanus fullo* Wilk. 1850, Newman’s Zoologist, 8, App., p. lxvii. Loc.? B. M.


*Chrysops geminata* Macq. 1850, Dipt. Exot., Suppl. 4: 39. Mexico. The name is a homonym of *geminata* Wied. and a presumed synonym of *virgulatus* Bell. 1859.


*Tabanus hispidus* Wilk. 1850, Dipt. Saund., 1: 63. Loc.? B. M.


*Pangonia inconstipica* Wilk. 1848, List, 1: 137. Loc.? B. M. Ricardo (1901) records as missing from B. M. Coll.


*Chrysops lugubris* Macq. 1846, Dipt. Exot., Suppl. 1: 44. Brazil. Coll. Robyns, Bruxelles. The description suggests possibility that this was not a *Chrysops*.


*Tabanus microcerus* Wilk. 1848, List, 1: 150. Loc.? B. M.
Tabanus nigripalpis Macq. 1845, Dipt. Exot., Suppl. 1: 40, pl. 4, figs. 7-8. New Grenada. Coll. Bigot. Placed by Kröber (1931, 1934) in Catachlorops, near rufescens Fab. A specimen, headless, in Mus. Paris labeled as rufescens by Macquart does not disagree with the description, which appears to be based on two different species.


Tabanus opulentus Wilk. 1848, List, 1: 148. Loc.? B. M.


Tabanus planus Wilk. 1850, Dipt. Saund., 1: 61. Loc.? B. M.

Pangonia prasiniventris Macq. 1846, Dipt. Exot., Suppl. 1: 29. Colombia. Coll. Fairmaire. A specimen ex Coll. Bigot in B. M. is determined by Macquart and can be made neotype if the original fails to turn up.


Tabanus redactus Wilk. 1850, Dipt. Saund., 1: 66. Loc.? B. M.


Tabanus scutellatus Macq. 1839, Dipt. Exot., 1 (2): 186. Loc.? Mus. Paris. Kröber (1934) claims to have seen the type and says it = macula Macq., but I was unable to find it and doubt the synonymy. In any case scutellatus has six years' priority.

Tabanus secundus Wilk. 1848, List, 1: 180. Loc.? B. M.


former appears to be a M.S. name. This specimen is a color variant of *hirtitibia* Wlk., but is not the true type of *variventris*, which was from Brazil and probably different.


*Tabanus viridiflavus* Wlk. 1850, Newman’s Zoologist, 5, App., p. lxxvi. Brazil. B. M. Lutz (1907) = *mexicanus* L. The description indicates *Chlorotabanus inanis* Fab. in the synonymy of which the name has long been placed.


It is to be noted that most of the types of Macquart which could not be found in the Paris Museum are species he received from other collectors. Thus, of four species from the Marquis de Spinola, none was found; of eight from the Serville collection, none is in Paris, and one was found in the British Museum. Species described from the collections of de Villiers, Robyns, Guerin, and de Breme, six in all, are all missing from the Paris Museum. The Bigot material and most of the Fairmaire species are in the British Museum save for a few apparently lost. Of the 50 species I have been able to check, described from the Paris Museum collections, only 6 are apparently missing, and these were mainly species without locality which may have been placed elsewhere in the collections.

Dr. C. B. Philip, who has examined a large proportion of the types discussed here, as well as many of Wiedemann’s types, has very generously gone over the manuscript of this paper and made numerous suggestions and corrections. He was also fortunate in discovering certain types of Macquart’s species in Paris which I did not see, and I append here the information on them he has furnished, as his observations cannot properly be placed with my own.

*Pangonia bicolor* Macq. 1850. 2 ♀ cotypes in Paris confirm synonymy with *P. semina* Wied.

*Chrysops frontalis* Macq. 1838. 1 ♂ type in Paris with dichoptic eyes and peculiar wing pattern.

*Tabanus fulvilateralis* Macq. 1838 is the same as the Nearctic T. *(Hybomitra)* *haemaphorus* Marten 1882, and agrees with a specimen from Alaska in Dr. Philip’s collection.

*Tabanus scutellatus* Macq. 1839. 2 ♀ cotypes in Paris are not the same as *T. macula* Macq. 1845.

In the following list the names are arranged alphabetically. Each name is followed by a condensed citation to its original proposal with the generic name under which it was proposed in parentheses, and the location of the material studied indicated by “B. M.” for the British
Museum, “M. P.” for the Muséum d’Histoire Naturelle in Paris. Names of which I have seen the types are preceded by an asterisk (*). Where I was able to match the type with a specimen in my possession I have placed an (II) after the location of the type. Some of these specimens are the property of the U. S. National Museum or the Museum of Comparative Zoology at Harvard University, and will be returned to those collections. The remainder are in my collection and will be retained for the time being.

Names which appear to be valid are in **boldface**; all others in *italics*. Synonymy believed to be new is indicated by (N. S.). In the case of confirmation of older synonymy, an attempt has been made to indicate the earliest authority for it, although in some cases this has not been possible. Since I have not examined the types of Wiedemann's species, cases where his names appear to be the earliest valid ones are accepted from the literature.

The supraspecific categories of Neotropical Tabanidae are still in a chaotic condition, though Dr. I. M. Mackerras has in preparation a revision of the whole family, and I have been privileged to see his manuscript. Most of the names here used are in the sense of Kröber's (1934) catalog, the exceptions being the following: *Fidena* includes *Fidena* and *Melpia* of the catalog. *Scaptia* s.s. includes *Osca* and *Callosca*. *Scaptia* subgenus *Pseudoscione* includes *Listriosca*, *Listrapha*, *Parosca*, *Listraphella*, and probably *Lilaena* of the catalog. *Stenotabanus* includes all the small *Tabanus*-like species with bare subepaulets and at least some of the species placed in *Stypommina* and *Stypommis* in the catalog. *Aegialomyia* is treated as a subgenus of *Stenotabanus*. *Dasybasis* is used for the species placed in *Agelanius* in the catalog, following Stone (1944), the criterion being bare subepaulets, generally broad frons, and often pilose eyes, the species being mainly Chilean. *Dasychela* End. is used for those species with generally hairy eyes, long antennal tooth, bare subepaulet, and fleshy labella placed in *Dicladocea* in the catalog. The bulk of the species are from Colombia, Ecuador, and Peru. *Dicladocea* is retained for the mainly southern Brazilian forms, which differ in having usually bare eyes and more or less sclerotized labella. *Dichelacera* includes *Catachlorops*, *Amphichlorops*, and *Psalidia* as subgenera. *Tabanus* includes *Allioma* and *Chelomma* of the catalog, and, in fact, all Tabaninae with setose subepaulets except *Leucotabanus*. *Lophotabanus*, *Hybomitra*, *Philopotabanus*, and *Hemicryops* are retained as subgenera. Future careful work will no doubt modify many of the above categories, but this is not the place for detailed discussion of generic concepts. If the species appears to have been correctly placed generically by the original de-
scriber, I have not added any generic placement. If not, I have added what appears to me the correct generic name in **boldface** type. In the cases where a good modern description or discussion clearly referring to the species exists, I have added the appropriate reference to it.

*adustus* Wlk. 1850, Dipt. Saund., 1: 34. (Tabanus) B. M. (H) = *rubiginipennis* Macq. 1845, Kröber (1934, 1940) as *Dichadocera*.


*albidocinctus* Big. 1892, 5: 686. (Tabanus) B. M. = *Stenotabanus*. Kröber (1934) as *Leucotabanus*.


*albipunctus* Big. 1892, 5: 611. (Mycteromyia) B. M. Kröber (1933b) = *Fidena lingens* Wied.


*alboater* Wlk. 1850, Zoologist, 8, App., p. lxvii. (Tabanus) B. M. (H) = *T. atricornis* Big. 1892. = *T. albobarbis* Wied., Kröber (1932b). *T. angustifrons* Macq. 1847, *T. senior* Wlk. 1850, and *Chelommia amazonensis* Barr. 1949, are probably all variants. *Alboater* and *atricornis* agree precisely with each other but differ from *albobarbis* in open first posterior cell and less fumose wings. Senior agrees best with *albobarbis* det. Kröb. *Angustifrons* has clear wings and slightly different antennae and palps.


*albomaculatus* Wlk. 1854, List, 5: 207. (Tabanus) B. M. (H) = *T. discifer* Wlk. 1850. Kröber (1931c) as *Gymnochela discifer*; (1934) as *Chelommia discifer*.

*albomarginata* Kröb. 1930, Zool. Anz., 90 (3-4): 76. (Spheciogaster) B. M. Fairchild (1939) as *Acanthocera*.

*albopicta* Big. 1892, 5: 633. (Dichelacera) B. M. (H) = *Catachlorops potator* Wied., Lutz (1907) = *Dichelacera marmorata* Big., Lutz (1907).


*albovittatus* Kröb. 1930, Dipt. Pat. S. Chile, 1, fasc. 2: 146. (Therioplectes) B. M. = *Dasybasis scutulatus* Kröb. 1930. (N.S.) Kröber (1934) as *Sissaldynus*.


*altivagus* O. S. 1886, Biol. Cent.-Amer., Dipt., 1: 45. (Chrysops) B. M.


*angustifrons* Kröb. 1930, Zool. Anz., 90(3-4): 74. (Diachlors) B. M. = *D. ochraceus* Kröb. 1928. Not Macquart 1850. Type appears teneral and may be composite. (N.S.)


*apicatus* Macq. 1847, Dipt. Exot., Suppl. 2: 20. (Tabanus) B. M. (H). Two specimens labeled type and paratype, the first bearing a Macquart label. The species was described as headless, but the present type has its own head. The paratype has head glued on. It is possible that Bigot or someone else glued a head of this group onto the true type and switched the label to the more perfect specimen. The type above agrees with "bigoti var. B," the paratype with "bigoti var. A" of Fairchild (1942). = *T. bigoti* Bell., nom. nov.

*approximans* Wilk. 1848, List, 1: 198. (Chrysops) B. M. (H) = Diachlors ferrugatus Fab. 1805.

*ataenia* Macq. 1838, Dipt. Exot., 1 (1): 156. (Diabasis) M. P. This specimen is probably the one from Pará mentioned in original description. = Diachlors curvipes Fab. 1805, Lutz (1907). Type headless.


*attenuatus* Wilk. 1848, List, 1: 159. (Tabanus) B. M. Probably Oriental; does not appear to be Neotropical, and may not be the true type.

*aureopygia* Kröb. 1931, Zool. Anz., 95: 24. (Fidena) B. M.


(Phaeotabanus) austeni Kröber. I hereby propose the name Tabanus sannio, nom. nov.

*badia* Wlk. 1848, List, 1: 132. (*Pangonia*) B. M. = *Fidena venosa* Wied. 1828, Kröber (1930g) as *Sackenimyia venosa*; (1934) as *Melpia*.


*brunnipes* Kröb. 1929, Encycl. Ent., Dipt. 5: 116. (*Stenotabanus*) B. M. = *Stenotabanus*, with bare subepaulets. The specimen is a paratype.


*carbo* Macq. 1850, Dipt. Exot., Suppl. 4: 33. (*Tabanus*) B. M. and M. P. (H) = *Veprius presbiter* Rond. 1863. Kröber (1929a) as *Stypomnina*. The types have hind tibial spurs, bare subepaulets and subcosta and well-developed ocelli, so that *carbo* will replace Rondani's specific name. (N.S.)

*castanea* Big. 1892, 5: 633. (*Dichelacera*) B. M. (H) = *Dictadocera*. Kröber (1931c) as var. of Gymnochela satanica Big.; (1934) as syn. of Chelomia
*cinerascens Big. 1892, 5: 610. (Mycteromyia) B. M. Kröber (1930).
*clausus Macq. 1847, Dipt. Exot., Suppl. 2: 17. (Tabanus) B. M. (H) = Tabanus fuscus Wied. 1828. Lutz (1907); Kröber (1934) as syn. of Chelotabanus fuscus Wied.
*compactus Wilk. 1854, List, 5, Suppl. 1: 222. (Tabanus) B. M. (H) = Stibasoma fulvothirtum Wied. 1828, Osten Sacken (1886).
philus Lutz 1914. This is the small pale form of lineola var. carneus (N.S.).

Until the relationships in this group can be thoroughly worked out it seems
better to retain dorsovittatus Macq. (q.v.) as separate.

*convergens* Wlk. 1848, List, 1: 198. (Chrysops) B. M. = Diachlorus ferrugatus
Fab., Ricardo (1904).

B. M. (H) = Rhabdotylus planiventris (Wied.) 1828, Lutz (1907). Kröber
(1934) as Amphichlorops.


*eriellum* O. S. 1886, Biol. Centr.-Amer., Dipt., 1: 52. (Tabanus) B. M. =
Stenotabanus, Stone (1938); Philip (1950).

*cyanenum* Wlk. 1848, List, 1: 208. (Hadrus) B. M. = Selasoma tibiale Fab.,
Ricardo (1904).

(Pangonia) B. M. and M. P. (H) = Scaptia lata Guerin 1830. Walker
(1850), genotype of Osea. Rondani (1863), genotype of Diatomineura.

*derivatus* Wlk. 1848, List, 1: 151. (Tabanus) B. M. = ? (Loophilobus).
Type headless, unrecognizable, a male. Name should not be used for speci-
mens, in my opinion. Described from North America. Not listed by Kröber
(1934).

*desertus* Wlk. 1850, Zoologist, 8, App., p. lxix. (Tabanus) B. M. (H) =
=* T.discifer Big. 1892 = ? T. dorsiger var. angustivitta Kröber. 1929. Bodkin
and Cleare (1916) (N.S.).

*detersus* Wlk. 1850, Dipt. Saund., 1: 31. (Tabanus) B. M. = Stenotabanus
near pompholyx Fchld. Kröber (1930c) as Macrocornus.

*discifer* Wlk. 1850, Dipt. Saund., 1: 35. (Tabanus) B. M. (H) = *T. albo-
maculatus* Wlk. 1854. Kröber (1931c) as Gymnoblatha; (1934) as Chelomina.

*discifer* Big. 1892, 5: 684. (Tabanus) B. M. (H) = *T. desertus* Wlk. 1850.
Not *T. discifer* Wlk. 1850. (N.S.)

*diversipennis* Wlk. 1848, List, 1: 165. (Tabanus) B. M. (H) = *Eschenbeckia
fascipennis* Maqc. 1838, Kröber (1934).

*diversipes* Maqc. 1848, Dipt. Exot., Suppl. 3: 13. (Diabasis) B. M. = Dia-
chlorus bicinctus Fab. 1805. Lutz (1913); Kröber (1928b).

*dives* Wlk. 1848, List, 1: 166. (Tabanus) B. M. (H) = *Stibosoma flaviv-
entre* Maqc. 1847, Lutz (1915). Kröber (1934) as var. of fulvohirtum
Wied.

*dominicanus* Kröber 1931, Stett. Ent. Zeitg., 92: 301. (Tabanus) B. M. =
(Lophotabanus) Bequaert (1940).

*dorsoguttata* Maqc. 1850, Dipt. Exot., Suppl. 4: 24. (Pangonia) M. P. =
Scaptia (Pseudoscione). Kröber (1930k) as Parosca; (1934) as Listerapha.

*dorsovittatus* Maqc. 1855, Dipt. Exot., Suppl. 5: 30. (Tabanus) B. M. (H).
=* T. lineola var. carneus* Bell., Fairchild 1942. Lutz (1907) = ? trilineatus
Latr. Kröber (1933a) suggests a var. of carneus. Type in poor shape; agrees
with pale specimens of var. carneus from Pernambuco, Brazil. (N.S.) See
under conseqia Wlk.

*ebrius* O. S. 1886, Biol. Centr.-Amer., Dipt., 1: 49. (Tabanus) B. M. (H) =
(Philopotabanus) subgenotype. Fairchild (1942f).
*edwardsi* Kröb. 1930, Dipt. Pat. S. Chile, 5 (2) : 131. (Mycteromyia) B. M.


*elongatus* Macq. 1845, Dipt. Exot., Suppl. 1 : 38. (Tabanus) B. M. (H) =

Dichelacera (Psalidia) vespertina Bequaert and Renjifo 1946, nom. nov.
Not *T. elongatus* Wied. 1828. Kröber (1934) as Rhamphidomia. Barretto
(1948) as Amphichlorops.

holotype ♂ is in Berlin. The specimens in B. M. det. Kröber, 1 ♂ and 2 ♀, do
not agree with Kröber’s statements as to sex and locality, are probably not
the same species (see Lutz and Castro 1933) and are not true types.


(Scione) M. P. (H). Kröber (1930j).

*erebus* O. S. 1886, Biol. Centr.-Amer., Dipt., 1 : 50. (Tabanus) B. M. (H) =

Astigmatophthalmus satanus Kröb. 1931, Stone (1938). Kröber (1934) as
syn. of *T. alteripennis* Wlk. Fairchild (1942) as *Tabanus*.


Lutz (1909) as *Epipsila*. Structurally close to *F. rhinophora* Bell.

*erythraeus* Big. 1892, 5 : 687. (Tabanus) B. M. (H) = T. impressus Wied.

1828. (N.S.) Not Atylotus *erythraeus* Big. 1892, 5 : 661. Kröber (1934) as
syn. of *T. monochroma* Wied.

*erythrocephalus* Big. 1892, 5 : 668. (Atylotus) B. M. (H) = Bolbodimyia,


*erythronotata* Big. 1892, 5 : 612. (Mycteromyia) B. M. (H) = Fidena.

Lutz (1909) as *Bombylossis*. Kröber (1934) as *Melpia*.

*eutanaeitius* Big. 1892, 5 : 664. (Atylotus) B. M. (H) = ? Tabanus triangulum

Wied., Fairchild (1942c). Type pale and denuded. Does not wholly agree
with description. (N.S.) Lutz (1907) suggests syn. of *T. ditaenia* Wied.,
a species from unknown locality.


(8) 11 : 543, India). The type bears the MS. name excelsior Surc., indicating
an intention on Surcouf’s part to change his homonym; excelsior is hereby
proposed for *excelsus* Surc. 1919, not Ricardo 1913. Kröber (1934) as


molestia Wied. 1828. Near *semignera* Ric. Enderlein (1925) as *Melpia* geno-

type. Not *Melpia* Wlk. Kröber (1930k) as syn. of *Parosca molestia* Wied.;

(1934) as *Listropa* molestia Wied.

*fallax* Macq. 1847, Dipt. Exot., Suppl. 2 : 20. (Tabanus) B. M. Not *T. fallax*

Macq. 1845, Africa. Kröber (1932b, 1934) as *Chelotabanus fallax*. Type

very dirty. Apparently related to *bogoti*, but I could not match among my
material. A new name may be needed when this group is straightened out.


(Pangonia) M. P. Not *P. fasciata* Latr. 1811, Egypt. Lutz (1907) as syn.

of *Esenbeckia esenbeckii* Wied. 1830. There are 10 ♀ in Mus. Paris, appar-
ently conspecific. Related to *insignis* Kröb., *filipalpis* Wlk., *clari* Lutz, and
*nigrirpus* Lutz.

*fasciata* Wlk. 1850, Dipt. Saund., 1 : 68. (Dichelacera) B. M. (H) = *Dich-

Osten Sacken (1886), Ricardo (1904), Kröber (1934) as syn. of *D. cervicornis* Fab. (N.S.)


*fascipennis* Kröber. 1930, Zool. Anz., 88(9-10): 237. (*Hemichryrops*). The type lacks hind legs, but another specimen (Carillo, Costa Rica) in B. M. retains them and shows no spurs. Subepaulet sparsely setose. The genus is tabanine not pagoniine and close to *Philippotabanus*, from which it may be separated by more protuberant face and sunken frons. The specific name will fall as a homonym of *Tabanus fascipennis* Macq. 1845. The new specific name of *vecordis is hereby proposed and the species may be known as *Tabanus (Hemichryrops) vecordis*, nom. nov.


*flavipennis* Macq. 1850, Dipt. Exot., Suppl. 4: 35. (*Diabasis*) B. M. The type is in poor shape, subepaulets with a few macrotrichiae, antennae *Tabanus*-like. Said to be from Philippine Islands. The species is a *Tabanus*, in my opinion, and the name should not be added to the Neotropical fauna without further evidence. It will preoccupy *T. flavipennis* Ric. 1914, from the Moluccas.
*flaviventris* Macq. 1847, Dipt. Exot., Suppl. 3: 90. (Tabanus) B. M. (H) = Stibasoma, Lutz (1915) with *dives* Wlk. 1848, as syn. = *T. dives* Wlk. 1848; = *St. englossa* Lutz 1915 (fig. only, no description); = *St. stilbium* Fchld. 1953; = *St. mallowphoroides*, J. Beq. 1944, not Walker 1857; = ? *St. sulfuratoeniatum* Kröber. 1921 (N.S.). Trinidad specimens lack complete yellow hind marginal bands on all tergites except the second, but differ in no other way from the type and specimens from South and Central America.


*fumifera* Wlk. 1854, List, 5, Suppl. 1: 323. (Pagonia) B. M. = Fidena, Kröber (1933b). *F. loricinis* Kröber. 1931 and Erephopsis pseudoupinaculata Lutz 1909 are separable with difficulty, and all three species are from the Amazon basin.


*furcata* Big. 1802, 5: 631. (Bellardia) B. M. (H) = *Dichelacera* (Psalidia) fulminea Hine. Not D. (P.) furcata (Wied.) 1828. This is the light form of the species named ocellata by Enderlein and festiva by Hine. See Fairchild (1951a) (N.S.). Not listed by Kröber (1934).


*fuscicirrura* Big. 1892, 5: 662. (Atylotus) B. M. (H) = Tabanus subruber Bell., Philip (1922).


but differs in broader palps, frons, and antennae, and in abdominal coloring, which is as in winthemi. Specimen in B. M. a cotype; the other was in Budapest.


*guiterasi* Brunetti 1922, Bull. Ent. Res., 13: 401. (*Chrysops*) B. M. (H) = *Chrysops flavida* Wied. 1821, Bequaert (1940). The original description states a ♂ in B. M., a ♀ in Berlin, but the specimen now at B. M. is a ♀ and there is now no ♂ in B. M.


*halteratus* Kröb. 1931, Ann. Mus. Hung., 27: 344. (*Catachlorops*) B. M. Very close structurally to *C. d'almeidai* Pech. but darker, more brownish facial pollinosity, brown callus and not strongly bicolored fore tibiae. Specimens in B. M. from Br. Guiana det. *luctuosa* by Kröber are the same, but *luctuosa* Macq. is a different species. See Barretto (1946).


*hirtipalpus* Big. 1892, 5: 619. (*Diatomineura*) B. M. (H) = *Mycteromyia* = *Mycteromyia edwardsi* Kröb. 1930. Kröber (1930f) erected the genus *Caenopangonia* for this species on the basis of supposedly hairy eyes. The type, however, has bare eyes. (N.S.)


treat as *Catachlorops*. Specimen in B. M. det. immaculata by Kröber agrees with type of *Catachlorops fuscipennis* Macq. The type of *immaculata* is very close to *flavus* Wied. and *vespertina* Beq. and will go into *Amphichlorops*. (N.S.)


*incisa* Macq. 1845, Dipt. Exot., Suppl. 1: 177. (Chrysoes) B. M. (H) = *Chrysoes brasilienis* Ric. 1901 = *C. fulviceps*, Kröber 1925, Bequaert 1940. = ? *C. fulviceps* Wilk. 1845. = *C. aurofasciata* Kröber. 1926. (N.S.) Not *C. fulviceps* Lutz 1909. Not *C. incisa* Fairchild 1942. There are 3 ♂ cytops; the one bearing Macquart’s hand label has been selected and labeled as lectotype. The others are different species.


*incompleta* Macq. 1845, Dipt. Exot., Suppl. 1: 27. ♂ 2; 1850, op. cit. Suppl. 4: 25. (Pangonia) M. P. Only a female remains in Paris and its labeling indicates it may not be the ♂ studied in 1845. The description was mainly based on the male, which seems to have been a different species, as noted by Schiner (1868) and Szilady (1926). Kröber (1930j) as Scione, but his description indicates a different species. Schiner (1868) as genotype of *Diclisa*. The specimen in Mus. Paris is very close to *Sc. minor* Macq. (q.v.), but with frons a little wider, palps, subcallus, and legs uniformly brown, no median black patches on abdomen. It would seem that the validity of the name must rest on the description of the ♂ rather than the specimen in Paris.
**inconsipicus** Wilk. 1848, List, 1:171. (Tabanus) B. M. = Chlorotabanus inanis Fab., Kröber (1930c).

**indecisus** Big. 1892, 5:666. (Atylotus) B. M. (H) = Tabanus = *Atylotus simplex* Big. 1892, p. 667. Not *Tabanus simplex* Wilk. 1850. Kröber (1934) as Tabanus. (N.S.)

**infuscatipennis** Macq. MS., Surc. 1919, Mes. Arc Mérid. Équat. Amér. du Sud, 10(2):230. (Tabanus) M. P. 1 specimen under this name does not agree with description of *T. ruber* Macq., for which it is supposed to be a substitute name, or with specimens det. as *infuscatipennis* by Bequaert. The specimen in Paris has no labels on it, but stands under a box label reading "T. infuscatipennis Cat. Mus." with "Colombia" added in pencil. Contrary to Bequaert and Renjifo (1946) no description appears to have been based on this specimen. The specimens upon which Surcuff based his description of *T. ruber* Macq. were not found. Kröber (1934) does not list.


(N.S.)


**lativitta** Wilk. 1848, List, 1:184. (Tabanus) B. M. = Tabanus obsoletus Wied. 1828, Lutz (1907); Kröber (1934). Type headless.


**limbatus** Big. 1892, 5:642. (Thrioplectes) B. M. (H) = *Dichelacera unifasciata* Macq. 1838, Brethes (1910); Kröber (1934); Barretto (1949b).

**limbithorax** Macq. 1855, Dipt. Exot., Suppl. 5:22. (Pangonia) B. M. = Scaptia. Kröber (1930f) as Parosca; (1934) as Listrapha. Ferguson (1924) concluded on the basis of comparison by Austen with type of *limbithorax* that *niveovittata* Ferg. and Henry was a synonym and hence the species Australian. Although Kröber (1930f, 1934) treated the species as Neotropical, he saw no material other than the type. It should be excluded from the Neotropical fauna.

Knab (1916) as syn. of luteoflavus Bell. Not Cryptotylius limonus Fairchild (1940a). (N.S.)

*litigious* Wlk. 1853, Dipt. Saund., 1:37. (Tabanus) B. M.(H) = Phaeotabanus Lutz and Neiva (1914); Bequaert (1924) genotype of Phaeotabanus. The ♂ in B. M. is now headless but agrees with current interpretations of the species and with Kröber's (1930b) description and figs. It should be taken as lectotype. The ♀ is a different species, unknown to me.


*longipalpis* Macq. 1848, Dipt. Exot., Suppl. 3:9. (Pangonia) B. M. = Histriosilvius Kröber 1930d genotype; redescribes and figures type. Lutz (1909) as Eseubeckia; Ricardo (1900a) as Diatomineura; Enderlein (1925) as Protosilvius.


*loricornis* Kröb. 1931, Zool. Anz., 95(1-2):32. (Fidena) B. M.(H) = *Pangonia basalis* var. Wlk. 1854, List, 5, Suppl. 1:322, not *basalis* Wlk. 1848. Ricardo (1900a) says Walker's second basalis 1854 not same as his first. Kröber's type of loricornis is the second specimen discussed by Ricardo, not the type of Walker's 1854 description, though I believe the two are conspecific.

*lucidulus* Wlk. 1848, List, 1:188. (Tabanus) B. M. = *Tabanus obliquus* Wlk. 1850. Not T. lucidulus, Fchld. (1951a) and not T. lucidulus Austen in litt., Bequaert (1940), the latter = T. obumbratus Beq. 1940. The synonymy of the three Jamaican species of this group appears to stand as follows: (1) *T. lucidulus* Wlk. 1848 = *T. obliquus* Wlk. 1850. = T. lucidulus Kröb. 1930. (2) T. townsendi Johns. = *T. angustifrons* Towns. not Macq. = *T. lucidulus* Bequaert in part 1940. = *T. lucidulus* Fchld. 1951. (3) T. obumbratus Beq. 1940 = *T. lucidulus* Austen in litt. The true lucidulus does not appear to have been seen by Bequaert. It has a narrower frons, small oval callus less than half width of frons and unconnected with the median ridge, as figured by Kröber. Wings quite heavily fumose.

*luctuosus* Macq. 1838, Dipt. Exot., 1(1):319. (Tabanus) B. M. = Catachlorops, Kröber (1934). Barretto (1946) with nigripennis Kröb. 1931 as synonym. The type from Brazil has wings wholly black, with all cells fenestrate; the specimen from Surinam is different, with apex of wing hyaline. Kröber (1939) seems to have used a form similar to the Surinam species in his redescription of luctuosus. His nigripennis, from description and figures, is composite, the description agreeing fairly well with luctuosus, the figures not.


*macrocercatus Big. 1892, 5: 687. (Tabanus) B. M. (H) = *Pseudacanthocera sylveiri (Macq.) 1838. Kröber (1934).


*macula Macq. 1845, Dipt. Exot., Suppl. 1: 43. (Tabanus) B. M. (H) = *Dasychela auribrasis Macq. 1847. Kröber (1940) as Dicladocera, with auribrasis, argyrophorus Schin. 1868 and scutellatus Maq. 1839 as synonyms. Bequaert and Renjifo (1946) as Dasychela with auribrasis Macq., argyrophorus Schin. and submacula Wlk. 1850. The type of scutellatus Maq. could not be found, but I doubt its identity with macula. The type of *submacula Wlk. is somewhat different though closely related.


*maculinevris Maq. 1835, Dipt. Exot., Suppl. 5: 31. (Tabanus) B. M. Kröber (1930a, 1934) as Stypommisa. Near *fulciventeris Maq. (q.v.).


*maculiventris Maq. 1850, Dipt. Exot., Suppl. 4: 33. (Tabanus) M. P. (H) = Dasybasis. Kröber (1934) as Tabanus, with rubromaculatus Blanch. 1852 as synonym. The type is labeled “rubromarginatus Gay Chili,” probably a lapsus for rubromaculatus, as well as with its published name, so that all three names refer to same specimens.

*malletetus Big. 1892, 5: 664. (Atylopus) B. M. Kröber (1934) as Tabanus. The subpaulets are bare, labela fleshy, eyes bare, antennae missing. Frons broad with large black callus filling lower third of frons. Perhaps best in Dasybasis, but I do not recognize the species.

*mallophoroides Wlk. 1857, Trans. Ent. Soc. London, IV, 5: 123. (Tabanus) B. M. = *Stibasoma dyridophorum Knab 1913, Bequaert (1944). Lutz (1915) as Stibasoma. Kröber (1934) as Stibasoma. Dyridophorum has less yellow on dorsum of abdomen but otherwise same. It is possible that festivum Wied. and panamense Curr. are but races or color forms of the same species.


*marginatus* Macq. 1838, Dipt. Exot., 1(1), pl. 19, fig. 1. (*Silvius*) M. P. =

*Pseudocanthocera slyveiri* (Macq.) 1838, 1, c.p. 155. Not *Silvius marginatus* (Wlk.) Ricardo 1901. Both Macquart names almost surely were based on the same specimens; the types show only "*marginatus*," the name appearing on the figure, so it seems probable that the name was changed to honor the collector Sylveira shortly before publication but after the plates were made. Lutz (1907) as syn. of *Acanthocera coarctata* Wied.

*marmorata* Big. 1892, 5: 634. (*Dichelacera*) B. M. (H) = *Catachlorops potator* Wied. 1828; Kröber (1934).


*Scione* Kröber (1930) with *aurea* Szil. and *incompleta* Macq. as synonyms,

but description drawn from other material than the type. His treatment confusing,
and I surmise he intended to synonymize *incompleta* Schiner, not *incompleta* Macq. with minor Macq.

*minor* Macq. 1850, Dipt. Exot., Suppl. 4: 33. (*Tabanus*) M. P. = *Dasybasis*. Kröber (1930i, 1934) as (*Agelanius*).

*misera* O. S. 1886, Biol. Centr.-Amer., Dipt., 1: 47. (*Dichleisa*) B. M. (H) =


*misionum* Macq. 1839, Dipt. Exot., 1(2): 186. (*Tabanus*) M. P. = *Dasy-

basis*. Lutz et al. (1918) as *Neotabanus*.


*montium* Surc. 1919, Mes. Arc Mérid. Équat. Amér. du Sud, 10: 229. (*Ta-

banus*) M. P. = *Dasybasis*. Bequaert and Renjifo (1946) as *Agelanius*. Near *osornoi* Beq. and *excelsus* Surc.

*multifascia* Wlk. 1850, Dipt. Saund., 1: 68. (*Dichelacera*) B. M. (H) = *Dich-

elacera cervicornis* (Fab.) 1805; Ricardo (1904).


*neglectus* Will. 1901, Biol. Centr.-Amer., Dipt., 1, Suppl. : 256. (*Chrysops*)

B. M. (H) = *Chrysops latifasciata* Bell., Hine (1925). Kröber (1934) as synonym of *C. incisa* Macq.

*neo-submacula* Kröber 1931, Rev. Ent., 1(4): 4-9. (*Dasyrhamphis*) B. M. Specimens so det. by Kröber in B. M., not types, which are in Berlin, agree with a specimen labeled "*Tabanus macula var. n. sp."* by Macquart in B. M. This specimen, though labeled as a type, appears not to have formed the basis of any published description. *Submacula* Wlk. and *macula* Macq. are conspecific and distinct from *neo-submacula* det. Kröber.

*nigrá* Kröber 1931, Rev. Ent., 1(3): 290. (*Rhamphidomina*) B. M. = *Amphi-

chlorops* Barretto (1948).

*nigrifascies* Big. 1892, 5: 607. (*Mycteromyia*) B. M. = ? *Fidena*. The type is in execrable condition, but is not *Mycteromyia* and is probably not from India as described.

*nigripennis* Guerin Meneville 1835, Icon. Regne Animal, Insectes, pl. XCVII, fig. 2; 1838, Voy. Coquille, Zool., II: 288. (*Pongonia*) M. P. The specimen is labeled "Pongonia nigripennis nob. nov. sp."

in Macquart’s hand and bears a Guerin-Meneville label, so may be the type. It is congeneric and possibly conspecific with *Fidena aureosericea* Kröber, but is not the same as *piceohirta* Wlk. *Nigripennis* and *piceohirta* are placed as synonyms of *Sackenimyia*
venosa (Wied.) 1821 by Kröber (1930g, 1934). The palpi are very small and deeply grooved. = Fidena.

*nigrithorax* Kröber 1930, Zool. Anz., 90(3-4) : 75. (Diachlorus) B. M. A♀ in B. M. from Br. Guiana is close but lacks median black on third tergite. It stands over the box label *podagricus* Fab.


*nigrivittata* Macq. 1850, Dipt. Exot., Suppl. 4: 23. (Pangonia) M. P. = Fidena marginalis (Wied.) 1830, Lutz (1907, 1909) ; Kröber (1933b, 1934). The synonymy is probable but not certain as there are several similar species here.

*nigrhiorta* Wlk. 1848, List, 1: 132. (Pangonia) B. M. = Fidena venosa (Wied.). Kröber (1930g).

*nitens* Big. 1892, 5: 609. (Mycteromyia) B. M.(H) = Fidena. Kröber (1933b) redescribes, but his description and figures inconsistent and probably composite. Fairchild (1951a) genotype of Bombylopsis Lutz and Ionopsis Lutz.


*notabilis* Wlk. 1850, Dipt. Saund., 1: 18. (Pangonia) B. M. = Esenbeckia, Kröber (1932a) with inframaculata Lutz as synonym. If notabilis and inframaculata are really synonymous, the species will go in Prosideoides Philip, but since the type of notabilis lacks the proboscis, this is uncertain. See Fairchild (1951a, p. 445).

*nuntius* Wlk. 1854, List, 5, Suppl. 1: 207. (Tabanus) B. M.(H) = *Tabanus desertus* Wlk. 1850. (N.S.) Kröber (1934) says type lost. Philip (1952) as synonym of obsolactus Wied., fide Hine MS.

*obesus* Big. 1892, 5: 660. (Atylotus) B. M. The type is headless. The bare subependals, large size, 14 mm., and general fascies suggest *Dasysbasis*, but I know of nothing resembling it from Mexico or Central America.


*ocellus* Wlk. 1848, List, 1: 143. (Pangonia) B. M. = *Dasychela*. Ricardo (1900a) noted it was a tabanine. Kröber (1930h) as *Tabanus*. Says an artifact. The species is close to Triceratomyia Bequaert, to *Dasychela limbatwena* End., and *Dicladocera badia* Kröb., and the detached head now with the specimen clearly belongs to it. The antennae are now lost.


*ochraceus* Macq. 1838, Dipt. Exot., 1(1) : 149; 1846, op. cit., Suppl. 1: 42. (Tabanus) M. P. 2♀ types. One = Cryptotylus unicolor Wied., the other = Amphichlorops flavus Wied. (N.S.)

*oculatus* Big. 1892, 5: 666. (Chrysops) B. M. = Chrysops molestia Wied. 1828, Ricardo 1901; Kröber (1926, 1934).

*ornativentris* Kröb. 1929, Konowia, 8 (2) : 182. (*Hybostraba*) B. M. (H) = *Tabanus nebulosus* subsp. Kröber (1929, 1.c.) lists as synonym of *Lophotabanus druyvesteijni* Szil., a synonym of nebulosus de Geer. Fairchild (1942f) as synonym of *ferrifer* Wlk. The species is, in my opinion, a darker and smaller race of *nebulosus*.

*pachyccephalum* Big. 1892, 5:636. (*Stibasoma*) B. M. = *Stibasoma chionostigma* O. S. 1886. Fairchild (1940b).


*parallelus* Wlk. 1848, List, 1:187. (*Tabanus*) B. M. = *Stenotabanus*, Bequaert (1940) with *T. aenea* Towns. as synonym.


*pennicillata* Big. 1892, 5:610. (*Mycteromyia*) B. M. = *Fidena*. Lutz (1909) as *Erephopsis*, but probably not same species. Kröber (1930k) as *Melpia*; (1934) as *Fidena*. The only black species with reddish legs I have seen.

*perplexus* Wlk. 1850, Dipt. Saund., 1:32. (*Tabanus*) B. M. (H). Kröber (1940) as *Dieladocera*. The subpauplets are setose and the species belongs with *hiritibia* Wlk. in the group treated as *Chelomnia* by Barretto (1949a).

*peruviana* Big. 1892, 5:635. (*Dichelaera*) B. M. (H) = ? *Dasychela limbativena* End. 1925. The subpauplets are bare and the specimen resembles *Dasychela badia* Kröber.

*peruvianus* Macq. 1848, Dipt. Exot., Suppl. 3:173. (*Tabanus*) B. M. (H). The specimen has the first posterior cell closed, a fact not mentioned in the original description, and may not be the true type. The subpauplets are setose. Kröber (1931c) as *Gymnochela*; (1934) as *Chelomnia*. Barretto (1949a) as *Chelomnia*. Bequaert and Renjiro (1946) as *Dichelaera* (Psolidia).


*pictipennis* Macq. 1834, Hist. Nat., Dipt., 1:199. (*Tabanus*). 2♂ ex coll. Bigot in B. M. under *Acanthocera longicornis* Fab. bearing labels "Brazil ex coll. Serville" which may be types of *pictipennis*. As noted by Fairchild (1939) the description agrees well with *longicornis*. (N.S.) Not listed by Kröber (1934).


*pruinivus Kröber. 1931, Stett. Ent. Zeitg., 92(2) : 276. (Tabanus (Agelanius)) B. M. (H) = Dasybasis. Kröber (1934) as pruinivitta, nom. nov. Not T. pruinivus Big. 1892, or Hine 1900, or Surcouf 1906, or Kröber 1929.


*quadrimaculatus Macq. 1845, Dipt. Exot., Suppl. 1: 39. (Tabanus) B. M. = Dichelacra. Kröber (1932a) as Gymnochela; says poeciloptera Schiner same; (1934) as Amphichlorops. Close to *testacea Macq., and *alcis Will.


*repanda Wilk. 1848, List, 1: 190. (Dichelacra) B. M. (H) = *Dichelacra testacea Macq. 1846, Kröber (1934).


*rubribarbis* Big. 1892, 5: 630. (Atylotus) B. M.(H) = Dichelacera (Psalididia) furcata (Wied.) 1828, Kröber (1932b).

*rubrinitotatus* Big. 1892, 5: 676. (Atylotus) B. M.(H) = *Tabanus guyanensis* Macq. 1845. Kröber (1934) does not mention. (N.S.)

*rubripes* Macq. 1838, Dipt. Exot., 1(1): 138. (Tabanus) M. P.(H). The type is labeled “Sylviea Bresil 1832” though the original description says “Cayenne, Sylviea.” All other Sylviea material was from Brazil, so I believe Macquart erred here in transcribing the locality. Kröber (1930c, 1934) as *Macrocorinus*. The species is close to *sorbillans*, but distinct. Specimens in B. M. det. Bigot are *sorbillans* Wied.

*rubritorax* Macq. 1838, Dipt. Exot., 1(1): 143. (Tabanus) M. P.(H) = Stenotabanus. Type headless, but appears to belong in group of *pegneniensis* Fchld. with a few setae on subepaulet.


*rufipennis* Macq. 1838, Dipt. Exot., 1(1): 138. (Tabanus) M. P. = Dicladocera. Subepaulet bare, labella with sclerotized plate. Very close to *castanea* Big. and *unicolor* Lutz, and all may be variants of same species. *Satanica* Big. also close, but distinct.


*rufithorax* Wilk. 1848, List, 1: 165. (Tabanus) B. M. = Catachlorops, Kröber (1934). Barretto (1946) in key only.


*rufipilosus* Big. 1892, 5: 620. (*Veprisius*) B. M. Ricardo (1901) as *Silvius*. Kröber (1930d, 1934) lists under *Veprisius* with a query. Hind tibial spurs, bare subepaulet and subcosta, fleshy labella, and pilose holoptic eyes.


*satanica* Big. 1892, 5: 632. (*Dichelacera*) B. M. = *Dichladoeca*. Kröber (1931c) as *Gymnochela* with *castanea* Big. as syn.; (1934) as *Chelomnia*. The subepaulets are bare and the species congeneric with *unicolor* Lutz and *rufipennis* Macq. It also agrees well with the description of *T. scutellatus* Macq., but the type of the latter could not be found at B. M. or Paris. Barretto (1948) as *Amphichlorops* with *castanea* Big. as synonym.


*semiviridis* Ric. 1900, Ann. Mag. Nat. Hist., ser. 7, 8: 181. (*Pangonia*) B. M. (H.) = *Esenbeckia prasinventris* Macq., Bequaert and Renjiño (1946). Kröber (1932a, 1934). Described as from Barengo, Old Castile, Spain, but the original label is indecipherable and might have been “Venezuela.”


*simplex* Big., 1892, 5: 667. (*Tabanus*) B. M. (H) = *Tabanus indecisus* (Big.) 1892. Not *T. simplex* Wlk. (N.S.) Kröber (1934) = ? *T. (Neotabanus) signativentris* Brethes. There are three cotypes, the lectotype being the one with the Bigot name label. The other two are different species.


*subfasciennis* Macq. 1855, Dipt. Exot., Suppl. 5: 35. (*Chrysops*) B. M. = *Chrysops variegata* de Geer. Kröber (1934) as var. of *variegata*. A large dark form, wing apex unusually dark and outer border of crossband concave.

*submacula* Wlk. 1850, Dipt. Saund., 1: 30. (*Tabanus*) B. M. (H) = *Dasychela*, Bequaert and Renjifo (1946) who place as synonym of *macula* Macq. Kröber (1931b) as synonym of *neo-submacula* Kröber. 1931; (1934) places in synonymy of both *macula* Macq. and *neo-submacula* Kröber. Both the latter are distinct species, in my opinion.


*sulphureus* Macq. 1847, Dipt. Exot., Suppl. 2: 19. (*Tabanus*) B. M. (H) = *Chlorotabanus inanis* (Fab.), Kröber (1934). Lutz (1907) as a pale form of *mexicanus* L.


*tenuistria* Wlk. 1848, List, 1: 143. (*Pangonia*) B. M. = *Fiadena*. Kröber (1930g) as *Sacheninyia* redescribes type; (1934) as *Melpia*.


*terminalis* Macq. 1855, Dipt. Exot., Suppl. 5: 36. (*Chrysops*) B. M. (H) = *Diachlorus curvipes* Fab. 1805. (N.S.)

*terminus* Wlk. 1848, List, 1: 160. (*Tabanus*) B. M. = ? *Tabanus sorbilians* Wied. Type is a ♀ and seems to match *sorbilians* fairly well. Kröber (1933a) as a valid species of (*Neotabanus*). (N.S.)
Kröber (1934) with *repana* as queried synonym = *Dichelacera repanda* Wlk. 1848. Bequaert and Renjifo (1946) as (Catachlorops). Close to *quadrimaculatus* Macq. and *alcis* Will.


*tinctipennis* Kröb. 1931, Zool. Anz., 94(9-10): 256. (Esenbeckia) B. M.

*tinctus* Wlk. 1850, Dipt. Saund., 1: 29. (Tabanus) B. M. = *Tabanus eggeri* Schin. 1868 (Palaeartic), nom. nov. pro *T. intermedius* Egger 1859, not Walker 1848. Walker’s name appears to be the oldest for this European species. Bequaert (1940) suggests may not be Neotropical. (N.S.)


*trifascia* Wlk. 1850, Dipt. Saund., 1: 37. (Tabanus) B. M. Type in very poor condition, a ♂ Stenotabanus, but not further identifiable in present state of knowledge of this group. It is not the ♂ of *callosus* Macq. as suggested by Kröber (1934).


*tritus* Wlk. 1857, Trans. Linn. Soc. London, 17(3): 338. (Tabanus) B. M. = Dasybasis. Kröber (1930i, 1934) as Stypomnia, the genotype of which *St. patagonica* End., he considers a synonym of *tritus* Wlk., but his figures and descriptions of *patagonica* and *tritus* do not agree with each other or with Walker’s type.


*univittatus* Macq. 1853, Dipt. Exot., Suppl. 5:30. (*Tabanus*) B. M.(H) = *Tabanus* *desertus* Wlk. 1850. (N.S.)


*viripes* Wlk. 1854, List, 5, Suppl. 1:298. (*Chrysops*) B. M.(H) = *Dichlorus* *curvipes* Fab. 1805, Ricardo (1901).


*venosus* Big. 1892, 5:685. (*Tabanus*) B. M.(H) = *Stenotabanus* *maculipennis* (Kröb.) 1929. (N.S.) Kröber (1930a) as *Styppomnii*, but his *venosus* not same species as the type. *St. pequeniensis* Fchld. 1942 also close.


**SUMMARY**

A study of the type specimens of Neotropical Tabanidae preserved in the British Museum of Natural History in London and the Muséum d’Histoire Naturelle in Paris is reported. The types or type material of 335 species were seen and an attempt made to place them generically. New synonymy is proposed in about 70 cases and new generic or subgeneric placement in 76 cases. Three new names are proposed
for homonyms and four species previously considered Neotropical are shown to be probably or surely from other regions. Specimens compared and agreeing with the types of 181 names (homotypes) were brought back and will eventually be deposited in American museums. Of the names treated, 189 appear to be valid, pending complete information on the status of the earlier names of Wiedemann, Thunberg, and some other authors; 110 are synonyms, and 40 are homonyms—in a fair number of cases a name may be both. In a few cases it was impossible to fix the status of a name owing to the condition of the type or uncertainty as to the material's being a true type. For the sake of completeness a list is also given of the Walker and Macquart species and a few others whose types could not be found—64 in all. The Walker types are presumed lost, while some of the Macquart types not seen by me are in Paris and others may turn up elsewhere.

REFERENCES

Barretto, M. P.

Bellardi, L.

Bequaert, J.


Bquiaert, J., and Renjiro S., Santiago.


Bicot, J. M. F.


Blanchard, E.


Brethes, J.


Carrera, M., and Lane, J.


Castro, G. M. de Oliveira.


Enderlein, G.


Fairchild, G. B.


1942b. Notes on Tabanidae from Panama V. The genus Tabanus, subgenus Bellardia Rondani. Psyche, vol. 49, Nos. 1-2, pp. 8-17, 1 pl.


Ferguson, E. W.


Hack, W. H.


Hine, J. S.


1920. Description of horseflies from Middle America II. Ohio Journ. Sci., vol. 20, No. 8, pp. 311-319.


Kertész, Colomannus.


Knab, F.


Kröber, O.


1930g. Die Tabanidengattung Sackenimyia Big. Zool. Anz., vol. 90, Nos. 1-2, pp. 1-12, 6 figs.


**Lutz, A.**


**Lutz, A., and Neiva, A.**


**Lutz, A., Araujo, H. C. de Souza, and Fonseca Filho, O. da.**


**Lutz, A., and Castro, G. M. de Oliveira.**


**Mackerras, I. M.**


**Macquart, J.**


OLDROYD, H.


OSTEN SACKEN, C. R.


1886. Biologia Centrali-Americana, Insecta, Diptera, 1 (Tabanidae), pp. 43-60.

Pechuman, L. L.


Philip, C. B.


Ricardo, G.


Rondani, C.

Schiner, J. R.
1868. Reise der Oesterreichischen Fregatte Nova um die Erde, etc. Zoologische TeiI, Diptera, pp. i-vi, 1-388, 4 pls.

Stone, A.

Surcouf, J. M. R.
1921. Genera insectorum, fasc. 175, Diptera, Tabanidae, pp. 1-182, 5 pls.

Szilady, Z.

Thunberg, C. P.

Walker, F.

Wiedemann, C. R. W.
1821. Diptera exotic.a.
1828-1830. Aussereuropaische Zweiflugelige Insekten, vol. 1, pp. i-xxxii, i-608, 7 pls. (1828); vol. 2, pp. i-xii, i-684, 5 pls. (1830).