

New North American Tabanidae XIII. Change of Name for a Well-Known Species of *Chrysops*¹

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Since the time of Osten Sacken (1875), *Chrysops univittatus* Macquart is a name assigned to a species common east of the Mississippi River and extending west to Kansas and Nebraska and north to Quebec. He states: "The identity of this species with Macquart's *C. univittatus* can hardly be called in doubt." Subsequent workers, including the writer, have followed him in this assignment. Osten Sacken also questioned the possible synonymy of *C. fascipennis* Macquart from Philadelphia, but further states: "... the shortness of the description renders the identification impossible."

Macquart (1855) gives the locality of *C. univittatus* as Baltimore but he did not indicate whether he had more than one specimen. A type, previously overlooked in the British Museum (Natural History) on visits by Hine, Kröber, and the author, labelled "Baltimore" and "univittatus n.sp." in Macquart's handwriting, was discovered by me on a visit in 1960. No other types were found in Macquart cabinets at the Paris and Lille Museums and it may be presumed the BMNH specimen is a holotype. No type for *C. fascipennis* has been located in any of these collections so that the relationship suggested by Osten Sacken has not been possible to verify or negate.

The *univittatus* type now lacks abdomen and antennal flagellums, but characters of the wing picture, face widely black on both sides of lateral sutures, dark scutellum, basal one-third of mid-femora and one-half of hind pair darkened, agree closely with a compared female from New York of *C. wiedemanni* Kröber. The abdominal pattern and legs, as originally de-

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scribed, also agree best with *C. wiedemanni*. This unfortunate misidentification and preoccupation change the concepts of two important and common species of Nearctic *Chrysops*. There is not time, before appearance of a Nearctic catalog of Diptera, to request plenary action of the International Commission to conserve present assignments of *C. univittatus* and *C. wiedemanni*. Recourse to substitution of *C. fascipennis* for *C. univittatus* of authors, not Macquart, is not justified on present information.

Under these circumstances, *C. wiedemanni* Kröber becomes a synonym of *C. univittatus* Macquart, not of authors. For *C. univittatus* of authors, not Macquart, the new name *C. macquarti* n.sp. is proposed.

Holotype ♀, 7.0 mm. Differs from the adequate description of *C. univittatus* given by Osten Sacken (1875) in the following minor respects: Face largely yellowish, the apodemal pits and sutures narrowly brown; callosity brown; scutellum largely yellow with a small mid-basal spot. These characters are within the usually observed variation. Fig. 56 of Brennan (1935) is a good depiction of the wing pattern of this type.

Catonsville, Baltimore, Md., June 30, 1922. F. M. Root. In the collection of the author.

Allotype ♂, 6 mm. Resembles the female except the black on the parafacials larger, and infuscation of second basal cell about two thirds its length.

Riverdale, Maryland, 6-9-11. No collector. In collection of the author.

Paratype males. *New York*: 2 (reared), Oswego, June, Logothetis; 1, Ithaca, July, Evans. *Pennsylvania*: 1, Swarthmore, July, Cresson, Jr. *Wash., D. C.*: Rock Creek Park, July, Arnaud, Jr.

Paratype females. *Maryland*: 1, Hillsdale, Baltimore, July 5, 1922, F. M. Root (nearly topotypic). *Massachusetts*: 2, Leverett and Amherst, July, Coher. *New York*: 3, Wading River and Tuxedo, July and August, no collector; 6, Genesee Co., July and August, Pechuman. *New Jersey*: 4, Atsion, Francis Mills and Burlington Co., June and July, Hansens, Belkin, and Conant and Thomas. *Pennsylvania*: 4, Green Valley and Clarke Valley, June and July, Kirk and Champlain. *Virginia*: 1, Giles

Co., August, Nuttycombe. *North Carolina*: 1, Highlands, July, Byers. *Georgia*: 13, Athens, Stone Mt., Grassy Mt., Murray Co., Attapulgus, Rabun Co., and Yonah Mt., May, June and July, Loizeaux, Fattig and Sudia. *Ohio*: 11, Lancaster, Bainbridge, Vinton Co., Athens Co., Summit Co., Lucas Co., and Amherst, June and July, Goshin, Orago, Thomas and Thomas, Stehr, Campbell and Campbell, Lipovsky. *Indiana*: 2, Cass Co., June, Williamson. *Michigan*: 2, Gull Lake Biol. Sta., Kalamazoo, July, Fischer. *Florida*: Alachua Co., April and May, Dean and Stephens. *Ontario*: Puslinch, June, Pechuman.

In the U. S. National Museum, British Museum (Natural History), and collections of L. L. Pechuman and the author.

Variation occurs in which the abdominal pattern fades to obscure brown shadows in a few specimens from New Jersey, Ohio and Georgia, but these are recognizable by the wing patterns and entirely yellow femora. Varietal names do not appear to be warranted analogous to those in the *flavida* complex.

The type localities of both *C. univittata* and *C. macquarti* thus are Baltimore and indeed they fly together over a considerable proportion of their respective ranges, but are quickly separated by several characters including the more extensive apical spots and infuscated first basal cells in the latter.

Though Stone (1930) has described the immature stages of *C. wiedemanni* (= true *univittatus*), those of *C. macquarti* appear not to have been reported.

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