Supplementary note on Venezuelan bat flies (Diptera: Nycteribiidae)

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SUPPLEMENTARY NOTE ON VENEZUELAN BAT FLIES
(DIPTERA: NYCTERIBIIDAE)

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ABSTRACT.—Basilia dunni Curran (1935) is reported from Venezuela for the first time, and comments are made on four other indigenous species.

After the publication of Venezuelan Nycteribiid Bat Flies (Guimarães 1972) I received 17 additional vials with 33 specimens of nycteribiids from Dr. Vernon J. Tipton. They were collected in the same area where the previous collection was made. The cumulative total number of specimens collected by the personnel of the Smithsonian Venezuelan Project (SVP) is 166, from 94 host specimens. There are five species represented in the new material, of which one had been recorded previously from Venezuela and one, Basilia dunni Curran (1935), is reported for the first time.

_Basilia anomala_ Guimarães and D’Andretta, 1956

Fig. 1

_Basilia anomala._ Guimarães, 1972: 1

Present record.—One female ex _Rhogeessa tumida_ (SVP 11109), Miranda: 5 km E Rio Chico, near Puerto Tuy, 6-XI-1966.

Remarks.—This is the second known female of the only South American species with three tergal plates.

The abdomen of the female figured in the original description (Guimarães and D’Andretta 1956) was swollen, and so somewhat different from the specimen figured herein, chiefly with regard to the shape of tergal plates I and III. In this specimen, the abdomen is rather shrunken, the lateral margins of tergal plate I are rolled up, and the posterior margin looks bilobate, due to a notch on the midline; viewed under the stereomicroscope, the midline of the tergite appears depressed. Tergal plate III is more regular: the lateral margins converge toward the back, and the posterior margin is slightly emarginate.

_Basilia dubia_ Guimarães and D’Andretta, 1956

_Basilia dubia._ Guimarães, 1972: 3

Present records.—Two females, ex _Myotis albescens_ (SVP 16173), Amazonas:

Fig. 1. _Basilia anomala_, abdomen of female, dorsal view (SVP 11109).

Remarks.—The characters that distinguish this species from B. carteri show some variability. The females mentioned in my 1972 paper had a less cordiform tergal plate I than specimens previously known; one specimen, from Apure, had no pustulate setae on the lateral connexivum. Among the females now examined, the majority of which have tergal plate I perfectly cordiform, I found one specimen with the margin truncate, and one specimen with a much more elongate plate than the others. In some specimens the pustulate setae of the lateral connexivum are so few (3-4) and so small that they are hardly visible.

_Basilia ferrisi_ Schuurmans-Stekhoven, 1931

_Basilia ferrisi:_ Guimarães, 1972: 7

Present records.—One female (SVP 43462) ex _Myotis simus_, Monagas: Mata de Bejuco, 54 km SE Maturin, 18 m elev., 3-VI-1968; two females (SVP 44232), ex _Myotis nigricans_, Falcon: Capatárida, 40 m elev., 26-VI-1968.

_Basilia dunnii_ Curran, 1935

Fig. 2

_Basilia dunnii_ Curran, 1935: 3, Figs. 1, 2; Scott, 1936: 497 (citation); Del Ponte, 1944: 118, 124 (citation and key); Guimarães, 1946: 16, 20 (citation and key); Guimarães and D’Andretta, 1956: 26 and 95, Figs. 152, 153 (key and redescription of holotype); Maa, 1965: 380 (included in the subgenus _Pseudolotromys_); Guimarães, 1966: 399, Fig. 37 (comments and description of male) Guimarães, 1968: 101.2 (citation).

Previous records and hosts.—Panamá: Santa Rosa, ex _Myotis nigricans_ (holotype); Canal Zone, Juan Mina, ex _Myotis n. nigricans_; Darién, Rio Tuira, ex _Myotis albescens_.


Remarks.—_B. dunnii_ is here recorded for the first time from Venezuela; it was known only from Panamá. The holotype was found on _Myotis nigricans_; all other records were from _Myotis n. nigricans_ (1) and from _Myotis albescens_ (4).

The two figures of the female of this species (Curran 1935, Guimarães and D’Andretta 1956) were based on the holotype. In the specimen now figured the discal setae of tergal plates I and II are fewer than in the holotype. The male was described and figured by me in 1966.

In my key to females of Venezuelan species of _Basilia_ (Guimarães 1972) _B. dunnii_...
should appear in the last couplet, after B. ferrisi, as follows: "Tergal plate II with discal setae in irregular rows converging obliquely toward the midline; longer setae of posterior margin of tergal plate I not reaching the posterior margin of tergal plate II."

**Basilia ortizi** Machado-Allison, 1963

*Figs. 3, 4, 5*

**Basilia ortizi**: Guimarães, 1972: 2

**Present records.**—Five males and seven females ex *Eptesicus* (SVP 25562A, 26765, 26767, 26768, 26770, 26771, and 26773), Amazonas: San Juan, Rio Manapiare, 155 m elev., 9 and 15-VII-1967.

**Remarks.**—As previously noted (Guimarães 1972), this species closely resembles *B. bequaerti*. It is indeed difficult to believe that it is a good species, but only the examination of specimens from the same host and area will allow a firm decision.

On the basis of the specimens seen, it seems to me that the setae of the lateral connexivum, especially the outer ones, are a little longer in *B. ortizi* than in *B. bequaerti*. The posterior processes of tergal plate II are narrower in *ortizi*, although not as thin as those of *B. wenzeli*.

The number of setae on this process is also quite variable. Guimarães and D’Andretta (1956) state that *B. bequaerti* has from four to six spiniform setae and from two to four long and robust setae.

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**Fig. 3. Basilia ortizi**, spiniform setae of the posterior margin of the fourth visible sternite of the male.

**Fig. 4. Basilia ortizi**, genitalia of the male, lateral.

**Fig. 5. Basilia ortizi**, abdomen of the female, dorsal view (SVP 26771).
They illustrate one specimen with six spiniform setae and three long setae on one of the processes and, respectively, four and four on the other. The drawing of the type by Machado-Allison (1963) shows three spiniforms on one side and four on the other, and two long setae on either side. The specimens I am identifying as ortizi have at most two long setae; the specimen now figured has two spiniform and two long setae on one side, respectively, and seven and one on the other side.

Differences in the posterior elevation of the mesonotum and in the shape of the anal segment are probably due to preservation.

In the figured female the genital and anal plates are similar to those of B. bequaerti.

The aedeagus of the figured male resembles that of B. bequaerti in the serration of the dorsal margin, but its distal end is thicker, while the parameres are much thinner distally than in B. bequaerti. However, since little is known of the variability of the male genitalia in Basilia, the significance of the differences mentioned is not clear.

**Literature cited**


**Del ponte, E.** 1944. Basilia romaulai, nobis (Diptera, Nycteribiidae) de la Argentina. Annales del Instituto de Medicina Regional, Tucumán, Argentina 1 (1):117-128, 3 figs.


