

## A NEW NEOTROPICAL SPECIES OF THE GENUS *HYADINA* (DIPTERA: EPHYDRIDAE)<sup>1,2</sup>

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ABSTRACT: A new species of *Hyadina* from the Neotropical Region is described.

I prefer to publish single species descriptions only when a new species is discovered subsequent to a revision of the genus in which it is to be placed. However, during the course of my current revision of the genus *Hyadina* for the Neotropical Region, Dr. Wayne N. Mathis of the National Museum of Natural History (USNM) collected a long series of specimens of a new species from Wee Wee Cay in Belize, and for his work, has requested a name for this species as soon as possible. Consequently, I am offering the following description without a key. A complete key to this and numerous other new species, as well as the existing species, will be presented later, when the generic revision is completed.

### *Hyadina bulbosa* n. sp.

**MALE.** Total body length 1.84 to 2.01 mm; shining black with greyish, silvery, golden and coppery pruinosity.

**Head** shining black with sparse golden to coppery pruinosity except as noted; length 0.37 to 0.41 mm; 3 very small orbital setae; 1 large pair of convergent inner vertical setae; outer vertical setae absent; vertex shining black with sparse golden to coppery pruinosity above and below; gena black with dense grayish to silvery pruinosity. Face shining brownish to black with sparse golden to coppery and grayish pruinosity; parafacial setae in 2 rows, 4 or 5 upward and outward curved outers, 4 convergent and decumbent inners. Clypeus brown with golden to grayish pruinosity, palpi yellowish. Antenna variable, yellowish to brownish to black except ventral half of segment 3 yellowish, arista brownish to black, all with golden to coppery pruinosity.

**Thorax** shining black with sparse golden to coppery pruinosity, faint grayish stripes between acrostichal and dorsocentral setal rows; scutum length 0.54 to 0.58 mm; humerus with sparse coppery pruinosity; 1 large and 0 to 3 small mesopleural setae. Scutellum shining black with sparse golden to coppery pruinosity; apical scutellar setae very large, lateral scutellar setae small; length 0.20 mm.

**Legs** reddish to yellowish, except base of coxae and 2 apical tarsal segments brown to black, all with grayish pruinosity; apex of mesothoracic tibiae with a large black spur and 2 to 4 small black anterior setae.

**Wing** clear to very slightly clouded with brown, not darkened at crossveins, without whitish spots; veins and all crossveins brown; length from humeral crossvein 1.43 to 1.60 mm; width 0.61 to 0.71 mm; distance from h to R<sub>1</sub> 0.31 to 0.34; R<sub>1</sub> to R<sub>2</sub>+3 0.42 to 0.58 mm;

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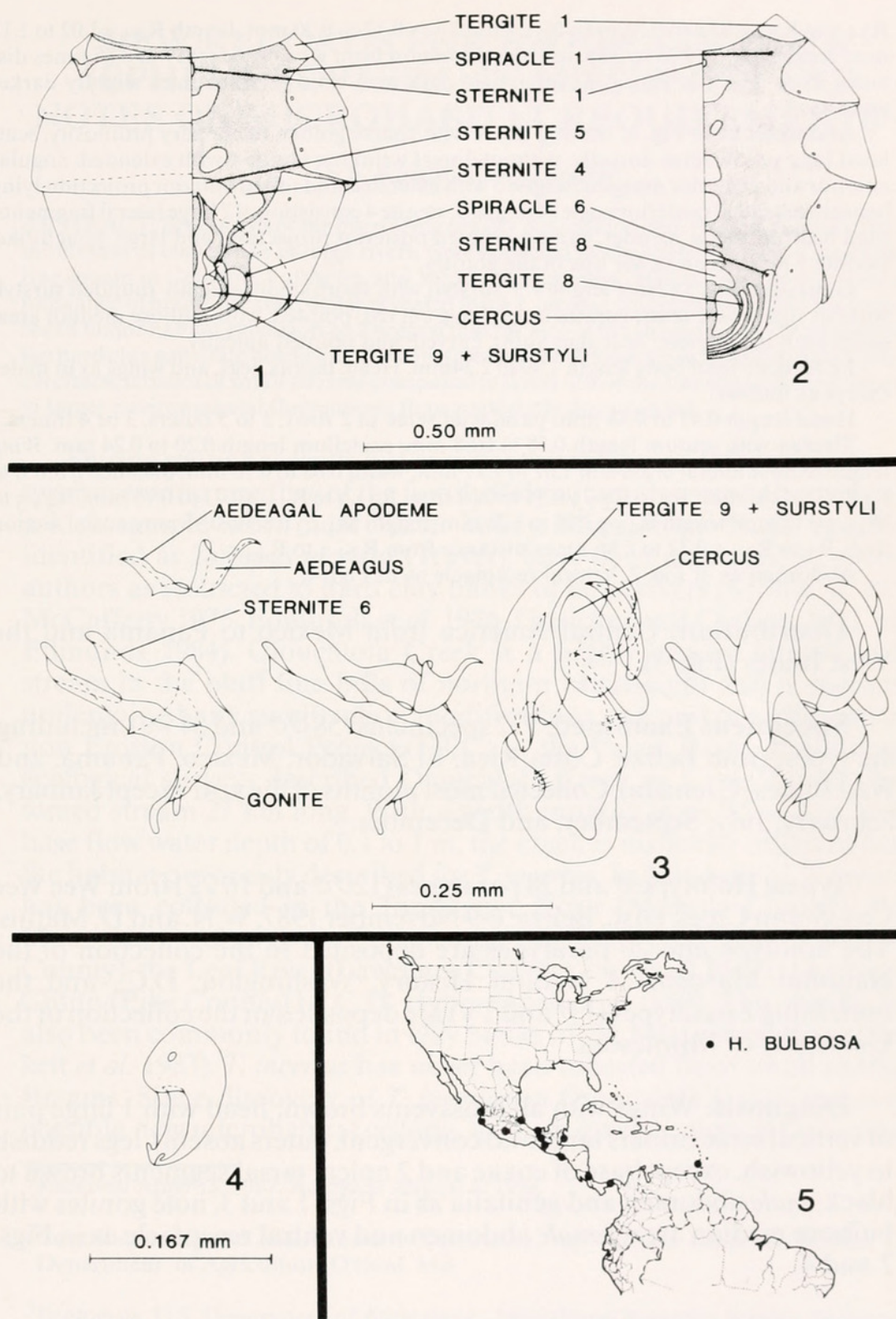


Fig. 1. *Hyadina bulbosa* Clausen. Male abdomen. Fig. 2. Female abdomen. 3. Male genitalia. 4. Ventral receptacle. Fig. 5. Distribution map.



$R_{2+3}$  to  $R_{4+5}$  0.68 to 0.71 mm;  $R_{4+5}$  to  $M_{1+2}$  0.17 to 0.20 mm; length  $R_{4+5}$  1.02 to 1.12 mm; length  $M_{1+2}$  0.75 to 0.85 mm; costal section from  $R_1$  to  $R_{2+3}$  0.57 to 0.85 times distance from  $R_{2+3}$  to  $R_{4+5}$ ; halteres light yellow to whitish, sometimes slightly darker apically.

**Abdomen** as in Fig. 1; shining black with sparse golden to coppery pruinosity, scattered long yellow setae dorsally, without dorsal wrinkles; tergite 4 with extended, angular anterior and posterior margins; tergite 5 with extended and rolled anterior projection lying beneath extended posterior angle of tergite 4; stenite 4 consisting of 2 large lateral fragments, each bearing a long, slender, curved, pointed posterior projection; and large, pouch-like, sternite 5 into which fit the tips of the gonites.

**Genitalia** (Fig. 3). Note tergite 9 + surstyli with short, small, apically rounded surstyli without significant setae; gonites large, long, curved, pointed, with bulbous median area; gonial arch incomplete; aedeagus short, curved, and pointed apically.

**FEMALE:** Total body length 1.90 to 2.24 mm. Head, thorax, legs, and wings as in males except as follows:

**Head** length 0.41 to 0.48 mm; parafacial setae in 2 rows, 3 to 5 outers, 3 or 4 inners.

**Thorax** with scutum length 0.58 to 0.68 mm; scutellum length 0.20 to 0.24 mm. *Wing* length from humeral crossvein 1.67 to 1.77 mm; width 0.68 to 0.78 mm; distance from h to  $R_1$  0.37 to 0.41 mm;  $R_1$  to  $R_{2+3}$  0.54 to 0.61 mm;  $R_{2+3}$  to  $R_{4+5}$  0.71 to 0.75 mm;  $R_{4+5}$  to  $M_{1+2}$  0.17 mm; length  $R_{4+5}$  1.16 to 1.26 mm; length  $M_{1+2}$  0.88 to 0.95 mm; costal section from  $R_1$  to  $R_{2+3}$  0.72 to 0.86 times distance from  $R_{2+3}$  to  $R_{4+5}$ .

**Abdomen** as in Fig. 2. Ventral receptacle as in Fig. 4.

**Distribution:** Central America from Mexico to Panama and the West Indies (Fig. 5).

**Specimens Examined:** 122 specimens (58 ♂♂ and 64 ♀♀), including the types, from Belize, Costa Rica, El Salvador, Mexico, Panama, and West Indies (Grenada). Collected most months of the year except January, February, July, September, and December.

**Types:** Holotype ♂ and 28 paratypes (12 ♂♂ and 16 ♀♀) from Wee Wee Cay, Stann Creek Dist., Belize, 6-9 November 1987, W.N. and D. Mathis. The holotype and 26 paratypes are deposited in the collection of the National Museum of Natural History, Washington, D.C., and the remaining 2 paratypes (1 ♂ and 1 ♀) are deposited in the collection of the University of Minnesota.

**Diagnosis:** Wings with all crossveins brown; head with 1 large pair of vertical setae (inners large and convergent, outers absent), legs reddish to yellowish, except base of coxae and 2 apical tarsal segments brown to black; *male* abdomen and genitalia as in Figs. 1 and 3, note gonites with bulbous median area; *female* abdomen and ventral receptacle as in Figs. 2 and 4.



1989. "A new Neotropical species of the genus *Hyadina* (Diptera: Ephydriidae)." *Entomological news* 100, 18–20.

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