A new species of *Hydara* (Hemiptera: Coreidae: Coreinae: Hydarini) from Madagascar

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Abstract

Hydara kmenti new species, collected in Madagascar is described. The relationships with Hydara tenuicornis (Westwood) and Hydara nigrofasciata Garcia Varela are discussed. The adult dorsal habitus, and drawings of pronotum, male genital capsule, and female genital plates are included, as is a key to the Madacascar Hydarini.

Key words: Hemiptera, Coreidae, Hydarini, Hydara kmenti new species, Madagascar, key

Introduction

The Coreidae fauna of Madagascar is rich and diverse but has been studied little by modern workers. Only two species of Hydarini, each representing a different genus, are known so far from Madagascar: *Hydara tenuicornis* (Westwood) (1842), and *Corduba* (*Acanthocorbuba*) *baniana* Brailovsky & Ortega (1998) (Brailovsky 1998).

The purpose of this study is to describe a new species of *Hydara* and to provide a key to the known Madagascar Hydarini.

Materials and methods

Examined specimens belong to the following collections: Museum National D' Histoire Naturelle, Paris, France (MNHN); National Museum, Prague, Czech Republic (MNHP); Instituto de Biología, Universidad Nacional Autónoma de México, México City (UNAM); and Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia (ZMAS). Measurements are given in millimeters.

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Key to the genera and species of Madagascar Hydarini

Apical border of corium obliquely straight; antennal segment IV short, clavate; body
elongate, narrowed, parallel-sided
Apical border of corium at outer third strongly concave; antennal segment IV fusi-
form, and elongate; body elongate, robust
Antennal segments I to III entirely pale yellowish to pale yellowish orange; femora
and tibiae entirely pale yellowish to yellowish orange; humeral spine of pronotum
large, directed laterally and slightly backwards (Fig.1); antennal segment I in both
sexes shorter than 3.96 mm
Antennal segments I to III pale yellowish with black marks; femora and tibiae pale
yellowish with black marks; humeral spine of pronotum short, directed obliquely
backwards (Fig. 2); antennal segment I in both sexes longer than 4.00 mm

Hydara kmenti n. sp.

(Figs. 2, 4, 6–7)

Description. Holotype male. Head length 1.20; width across eyes 1.36; interocular space 0.82; interocellar space 0.54; antennal segments lengths: I, 4.48; II, 2.68; III, 3.96; IV, 2.00. Pronotal length 2.28; maximal width of posterior lobe including humeral spine 3.04. Scutellar length 1.48; width 1.04. Body length 11.65. Head.—Subquadrate, wider than long across eyes, unarmed, anteriorly slightly produced, declivent; tylus protruding, apically rounded; juga swollen; antenniferous tubercles with short external plate; antennal segment I long, slender, cylindrical, densely granulate, apically clavate; antennal segments II and III slender, cylindrical, IV short, fusiform; postocular tubercle indistinct; buccula short, rounded, not extending beyond antenniferous tubercles; rostrum reaching posterior margin of metasternum; rostral segment I reaching anterior margin of prosternum. Thorax.— Pronotum.— Moderately declivent; collar broad; anterolateral margins obliquely straight, crenulate; posterolateral margins sinuate, outer third crenulate, inner third smooth; posterior margin slightly concave, smooth; humeral angles with mediumsized spine directed obliquely backwards (Fig. 2). Legs. Slender, unarmed; femora apically clavate. Scutellum.— Triangular, longer than wide, apically subacute. Hemelytra. Macropterous, reaching apex of last abdominal segment; corium along basal two-thirds of costal margin serrate, with short acute spines; apical border at outer third with well defined concavity. Abdomen.— Connexivum with upper border crenate. Genital capsule. Posteroventral border with middle lobe broad, globose, and enclosed by two short

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subquadrate arms (Fig. 4). Dorsal color.— Dark orange; antennal segment I dark yellow with granules and apex almost entirely dark brown; antennal segments II and III dark yellow with dark brown granules; antennal segment IV dark castaneus orange, apex pale yellowish orange; posterior angle of claval comissure black; hemelytral membrane pale ambarine; dorsal abdominal segments bright orange with yellowish marks. Ventral color.— Pale yellow with small black discoidal spot at mesopleura, and abdominal sterna III to VII; coxae pale yellow; trochanters pale yellow scattered with dark brown spots; femora pale yellow with granules, and apices almost entirely dark brown; tibiae pale yellow with granules, apices and two or three incomplete dark brown rings; tarsi with basal and middle segments yellow, apices castaneus orange, and apical segment castaneus orange; genital capsule pale yellow with dark brown irregular marks. *Integument*.— Body surface rather dull, glabrous. Head, antennal segments I to III, anterior and anterolateral margins of pronotum, femora, tibiae, pleural margins of abdominal sterna III to VII densely granulate; pronotum behind calli strongly punctate, each puncture small; scutellum moderately punctate, each puncture small; propleura, mesopleura, metapleura, clavus, corium strongly punctate, each puncture large; prosternum, mesosternum, metasternum, conexivum, abdominal sterna impunctate.

Female. Head length 1.18; width across eyes 1.38; interocular space 0.88; interocellar space 0.54; antennal segments length: I, 4.60; II, 2.72; III, 3.96; IV, 1.93. Pronotal length 2.14; maximal width of posterior lobe including humeral spine 3.16. Scutellar length 1.60; width 1.20. Body length 12.20. *Structure.*— Abdomen.— Posterior angles of segments VII and VIII short, subacute; segment IX almost as long as wide, apically truncated; abdominal sternite VII with plica and fissure. Genital plates. Gonocoxae I enlarged anteroposteriorly, opened in caudal view, apically rounded, with outer margin weakly convex; paratergite VIII triangular, spiracle visible; paratergite IX projected as a broad large squarish lobe, conspicuously longer than paratergite VIII (Fig. 6). *Color.* Like male holotype. Connexival segments VIII and IX, and dorsal abdominal segments VIII and IX yellowish orange; genital plates pale yellow.

Variation. 1. Connexivum yellow. 2. Upper margin of connexival segments IV and V with black diffuse marks. 3. Granules of head, anterior, and anterolateral margins of pronotum, and pleural margin of abdominal sterna III to VII, yellowish white. 4. Anterior third of anterolateral margins of pronotum pale dark brown.

Types. Holotype male, **Madagascar:** Ampanefena (without date) (MNHP). **Paratypes. Madagascar:** 3 males, 2 females, Ampanefena (without date) (MNHP, UNAM); 3 females, Ambodivoniho, Env. de Vohémar (without date) (MNHP); 1 female, Vohémar (without date) (MNHP); 2 males, Rogez (without date) (MNHP); 1 male, 1 female, Ambanja (without date) (UNAM); 1 female, Diego Suarez, 1893, Ch. Alluaud (MNHN); 1 male, Ambilobe, IV-1951 (MNHN); 1 male, Ampijoroa, Tsaramandroso (without date) (MNHN); 1 male, Ambanja, III-1934 (ZMAS).

Comments. Hydara Dallas (1852), previously included two species, H. nigrofasciata

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Garcia Varela (1913) (recorded from Cameroon and Spanish Guinea), and H. tenuicornis (Westwood) (1842) widely distributed throughout subSaharan Africa. The third species H. kmenti n. sp. (Fig. 7), is easily distinguished: antennal segments I to III, and the femora and tibiae, are pale yellowish with black marks; the propleura and metapleura lack a black discoidal spot; and the humeral spine of pronotum is shorter, and directed obliquely backwards (Fig. 2). Hydara tenuicornis (Fig. 8), has a large humeral spine directed laterally and slightly backwards (Fig. 1); antennal segments I to III, and the femora and tibiae entirely pale yellowish to pale yellowish orange, and the propleura and metapleura each has a small black discoidal spot. The male genital capsule (Figs. 3-4) and female genital plates (Figs. 5-6) are quite distinct. In H. nigrofasciata the posterior margin of the pronotal disk has a wide transversely black stripe absent in the previous mentioned species; the antennal segment I is almost black and apex pale yellow; the antennal segment IV is pale yellow with its basal third black; and the anterolateral margins and humeral spine of pronotum are entirely black.

Etymology. I am pleased to name this new species after Petr Kment distinguished Czech hemipterist.

Hydara tenuicornis (Westwood)

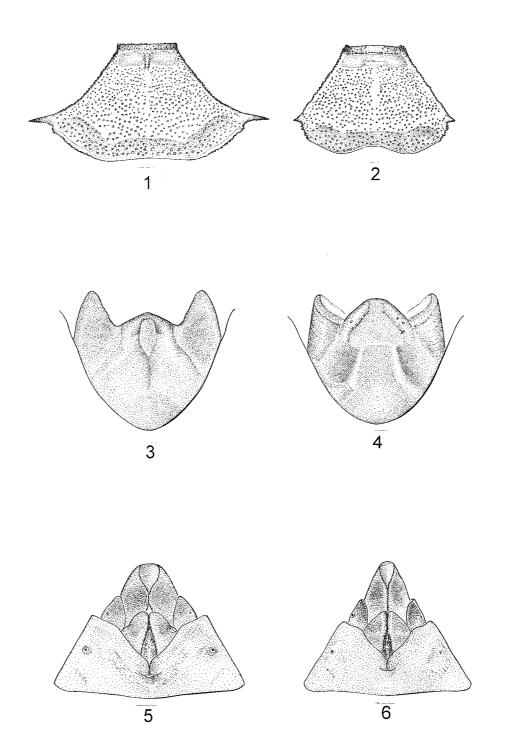
(Figs. 1, 3, 5, 8)

Coreus tenuicornis Westwood, 1842; 24.

This is the most widely distributed species in the genus. I have examined specimens from throughout its range and I can not find taxonomic characters to justify its division into two or more species. According to the extensive material examined it is distributed through Spanish Guinea, Botswana, Namibia, Cameroon, Rwanda, Central African Republic, Liberia, Zaire, Sierra Leone, Senegal, Tanzania, Dahomey, Ghana, Mauritius Island, Seychelles Islands, Côte d' Ivoir, Democratic Republic of Congo, Nigeria, Uganda, Zambia, South Africa, and Madagascar.

MADAGASCAR. Any specific locality is previously known to this country.

Studied material. New records: MADAGASCAR. 3 males, 4 females, Vohémar (without date) (MNHP). 1 male, 1 female, Ambanja (without date) (MNHP). 1 female, Ampanefena (without date) (MNHP). 6 males, 10 females, Base d' Antongel, A. Mocquerys (MNHN). 5 males, 7 females, Antanambe, A. Mocquerys (MNHN). 1 female, Region du Sud-Est, Vallee du Fanjahira, XII-1901, Ch. Alluaud (MNHN). 1 female, Nosy-Komba, Flane, V-1956, P. A. Robinson (A. R.) (MNHN). 1 male, Maevatanana, VIII-1941, M. Abadei (MNHN). 2 males, 1 female, Ifasy, Ambilobe, VI-1954, E. Razafimamdimby (E. R.) (MNHN).



FIGURES 1–6. *Hydara* spp. **1, 3, 5.** *Hydara tenuicornis* (Westwood). 1, pronotum. 3, male genital capsule in caudal view. 5, female genital plates. **2, 4, 6.** *Hydara kmenti* **n. sp.** 2, pronotum. 4, male genital capsule. 6, female genital plates.

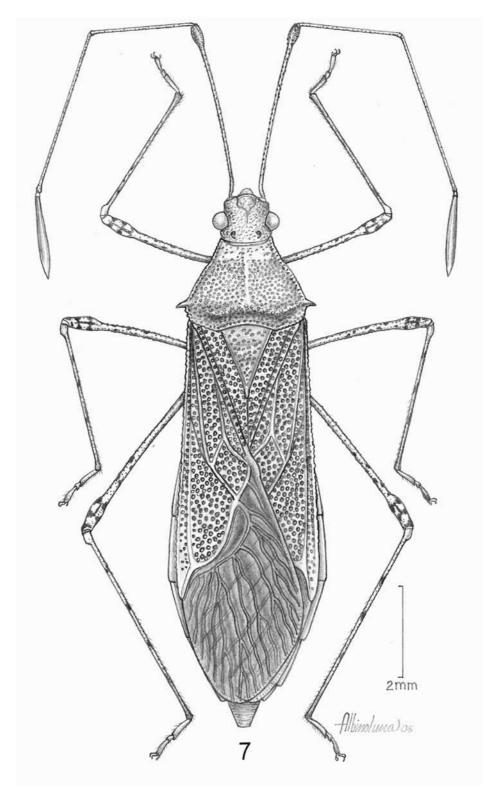


FIGURE 7. Hydara kmenti n. sp. Female, habitus.

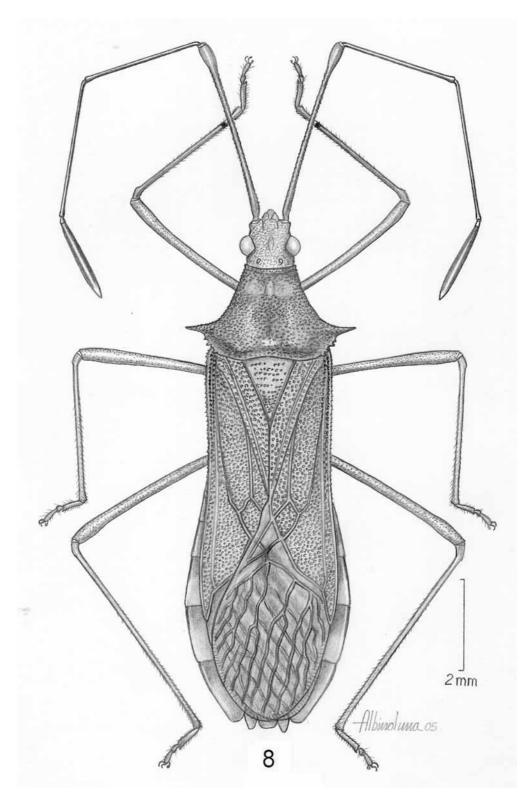


FIGURE 8. Hydara tenuicornis (Westwood). Male, habitus.

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