CORANUS AFRICANA SP. NOV., A NEW HARPACTORIN (REDUVIDAE: HEMIPTERA) FROM EGYPT

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Abstract

Coranus africana sp. Nov. is described for the first time from Egypt: It was collected from different localities including Kom Oshim, Sharkia, Wadi El-Natrun, Giza and Sinai. Specimens were secured from some economic plants including tomato, clover, cotton, as well as several wild desert plants.

INTRODUCTION

Family reduviidae includes aproximately 54 species distribuated in all biogeographical regions in Egypt. They have been recorded in various habitats; inculding cultivated areas, grasses, weeds and other wild plants (Priesner & Alfieri 1953; El-Sebaey 1989, 1994, 1996, 1998).

Specimens of *Coranus africana* sp. Nov. (Harpactroinae, Reduviidae, Hemiptera) and other reduviid species were collected from different localities in Egypt, it secured from economic plants such as tomato, clover, cotton as well as several wild desert plants.

The collected materials were identified through referential collections of Egypt and keys given by several authors (Miller, 1951; Dispons, 1953; Villiers, 1967; Davis 1969; El-Sebaey, 1994). Also, the material had been sent to the British Museum (Natural History), for identification, but it was identified only on the generic level.

MATERIALS AND METHODS

Samples of the subfamily Harpactorinae were collected from Kom Oshim, Sharkia, Wadi El-Natrun, Giza and Sinai. They were secured from wild plants and economic crops.

To examin the taxonomic characters of the specimens, microscopic preparations of hemelytra, fore legs, male and female gentalia were examined (Miller, 1952 & 1955; Wygodzinsky, 1966; Davis, 1966; El-Sebaey, 1994).

Microscopic preparations of legs, male and female genitalia were obtained by soaking the specimens in 5% KOH solution for different periods according to the prepared material and species. After soaking in KOH for a proper time, the specimens were washed thoroughly with distilled water and dehydrated in alcoholic series of ethanol (30, 50, 70, 90 and 96 %). After dehydration, the specimens were cleared by soaking in Zylol for about three minutes and then mounted in Hoyre's medium to be ready for examination. Fore wings were removed from the insects and mounted on Hoyre's medium (EI-Sebaey 1994).

RESULTS ORIGINAL DESCRIPTION

Coranus africana sp. nov.

Body elongate, dark brown in colour; covered with a mat of short hairs.

Head brownish, trapezoidal with two sublateral dark stripes. Compound eyes large, black, prominent, surrounded by distinct bristles. Ocelli raised on tubercles. Rostrum dark brown, snout like, cone shaped, tending to be more narrower anteriory; much longer than head. Antenna light brown, consisting of five cylindrical segements; the third about two times as long as first.

Pronotum brown in colour, bearing a mat of short hairs; anterior lobe with dark margins; nearly trapezoidal, bearing scattered hairs, few pubescent. Posterior lobe dark brown in colour, broad, trapezoidal, with a curved posterior end; covered with dense mat of pubescence bearing two large elevations separated by distinct median groove and bordered by exterior lateral crescent-shaped hill, Fig 1. Scutellum black in colour, triangular, with yellow brownish median elongate projection, Fig 1.

Legs: lower and lateral surface of all legs dark brown, upper surface yellow, interrupted with dark brown bands. Hemelytron dark brown in colour. Leathery part hairy, fan-shaped with narrow long distal end, covered with mat of pubescence; membranous part with two semi-circular celles, Fig 1.

Abdominal dorsum light brown in female; orange brown in male; first abdominal segement semi-circular, surpassed by second one; first two segements black, with dense pubescence on lateral margins. Abdominal ventrum white with black margin in female, without black margin in male.

Male genital capsule oval, cover capsule concave; median part sclerized; phallus blak, T shaped; parameres slightly curved, proximatly flate and broad, provided with long hairs, Fig 2.

Female genital capsule sub rectangular; valvula sub triangular with membrane medially; connexium suture dark brown, conspicuous, surrounding valvula; valviferus with hairy margin. Coxites U-shaped. Styloides broad, with dense long hairs, ending with papillae, Fig 3.

One male (holotype), Egypt, Kom Oshim, 30 IV 2000, Iman El-Sebaey (collection of the Misitry of Agriculture).

Three males and three females (paratypes), Egypt, Kom Oshim 30 IV, 2000, Iman El Sebaey (Collection of the Ministry of Agriculture).

This new species apparently allied to *C. aegyptius*. It differes from it in coloration and morphology of male and female genitalia (El-Sebaey 1994).

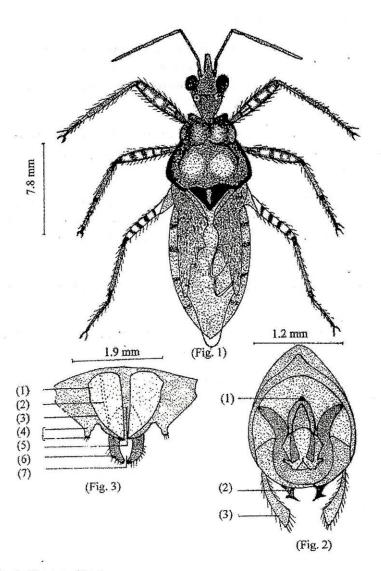


Fig. 1. Coranus africana

Fig. 2. (1) Aedegus, (2) Phallus, (3) Parameres

Fig. 3. (1) valvula (T.8), (2) valviferus (T.9), (3) connexium suture, (4) coxite, (5) membrane, (6) styloides, (7) vulva

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تسجیل نوع جدید من تحت فصیلة هاربکتورینی (فصیلة ریدیوفیدی ـ رتبة نصفیة الأجنحة) من مصر

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معهد بحوث وقاية النبات ـ مركز البحوث الزراعية ـ الدقى ـ جيزة

تم تسجيل المفترس Coranus africana ووصفه كنوع جديد لأول مرة من مصر، وتم جمعه من مناطق عديدة مثل كوم أوشيم بالفيوم - الشرقية - وادى النطرون - الجيزة - سيناء، وأمكن الحصول على هذا النوع من على العديد من النباتات الاقتصادية مثل الطماطم - البرسيم - القطن، بالإضافة لبعض النباتات الصحراوية.

أجريت الدراسات المورفولوجية المستغيضة مدعمة بالرسوم التوضيحية لهذا المفترس.