

Mastostethus lateniger, n. sp. — Oblong, un peu brillant, rouge avec la tête entre les yeux et le thorax au milieu maculé de noir, écusson rouge, élytres noirs, brièvement teintés de rouge vers la base et sur les épaules avec l'apex peu largement rouge. Antennes noires à premier article roux, courtes. Pattes noires, cuisses rouges, tibias en partie non foncés. Elytres à ponctuation très fine et écartée. Long. 9 mm. Amazones : Santo Paulo, Oct.-Nov. 1879 (M. de Mathan).

Peut se placer près de *thoracicus Baly* ayant une coloration basale claire plus réduite, et, par contre, avec le sommet des élytres roux.

Mastostethus densepunctatus, n. sp. — Oblong-subovalaire, large, un peu brillant, en-dessous à coloration générale roussâtre un peu rembrunie par places, en dessus avant corps roux ou jaune avec la tête ayant une ligne noire postérieure non régulière, le thorax sur son milieu largement et transversalement noir, l'écusson noir, les élytres noirs avec les épaules un peu tachées de jaune et le sommet peu largement jaune, la coloration jaune remontant un peu sur les côtés et sur la suture. Antennes courtes, noires et à 1^{er} article taché de roux ; pattes roussâtres, en partie rembrunies. Elytres à ponctuation assez forte et peu écartée, courts et larges, se rétrécissant un peu vers les épaules.

Long. 10 mm. Amazones : Pebas, fin Déc. 1880 (M. de Mathan).

Espèce très caractérisée par sa forme trapue conjointement à sa ponctuation élytrale plus forte que d'ordinaire avec une coloration presque complètement noire.

BF (d'Andrea 1997):

B. leucostata

P. deceptor

ODONATA COLLECTED BY J. HAMON
IN FRENCH WEST AFRICA,

by Lt. Col. F. C. FRASER, I. M. S., Retd.

Three collections, made up of some 164 specimens of Odonata which were collected by J. Hamon in French West Tropical Africa, from the Haute-Volta for the most part, have reached me through the Centre de Faunistique of the O.R.S.T.O.M., to whom I am indebted for the opportunity of studying these very interesting insects.

Family COENAGRIIDAE.

Ceriagrion Hamoni, n. sp. BF

Five males and one female from Yabasso, cercle de Bobo-Dioulasso, 24-VI-53 (Haute-Volta).

Male. Abdomen 28 mm. Hindwing 17 mm.

Head : labium and the whole of head beneath pale yellow ; labrum, bases of mandibles and genae bright golden glossy yellow (as in *ignitum* Campion) ; anteclypeus and the frons below the ridge pale ferruginous, postclypeus a darker ferruginous, frons above and vertex dark chocolate brown sharply marked off from the occiput which bears a transverse stripe of bright yellow expanding slightly against the eyes. Prothorax and dorsum of thorax dark ferruginous or dull orange as far lateral as the humeral sutures, then a rich chrome yellow to the level of the posterolateral suture, the remainder of the sides pale greenish yellow. Small blackish points at the upper ends of the humeral and posterolateral sutures. Pulverulent white on the pectus. Legs pale yellow with black spines, the outer sides of femora pale ferruginous. Wings tinted palely with yellow but more especially at base and along the costal borders of wings. Pterostigma pale yellow, covering one cell, very oblique and diamond shaped, acute at both ends ; II postnodals in forewings, 9 in the hind ; arculus tends to be slightly distal to the antenodals in the forewings only. Abdomen vermilion on dorsum, segment I and the sides and ventral surface of the rest yellow. Anal appendages yellow, apices of inferiors tipped with black ; superiors without an inner dark tooth and of the same length as the inferiors ; inferiors angulated posteriorly (fig. 1. a).

Female. Abdomen 29 mm. Hindwing 18,5 mm.

Head and thorax coloured similarly to the male but dorsum of thorax rather more olivaceous and the colour generally paler, the

labrum and genae almost creamy yellow in tint. Legs pale yellow. Wings with similar venation but more evenly tinted throughout with yellow and the pterostigma paler. Abdomen greenish yellow on sides and ventrum, the dorsum strongly marked with black ; segment II broadly black from base but with a broad apical pale yellow annule ; segment III similar but the apical annule pale ferruginous, segments IV and V with the apical annules reduced, segment VI with the black

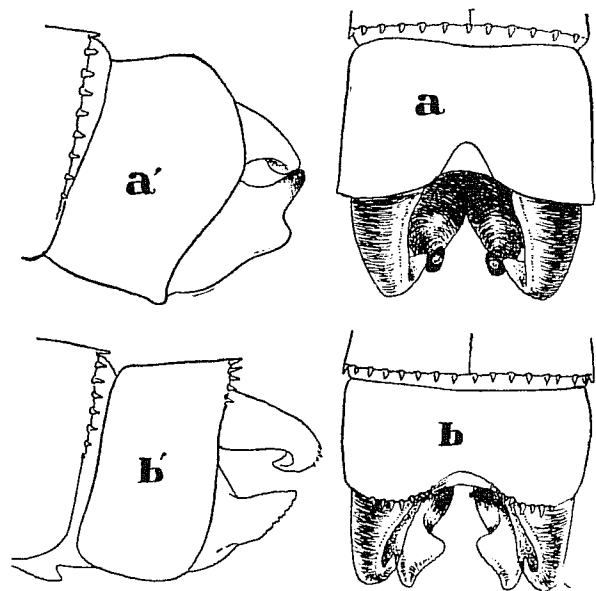


Fig. 1. — Anal appendages of : a, *Ceriagrion Hamoni*, n. sp., male dorsal and left lateral views ; b, *Pseudagrion Hamoni*, n. sp., male dorsal and left lateral views.

tapering apically to end at about the middle of segment, after which the remainder of the abdomen is dull ferruginous. Anal appendages shortly conical, yellow.

This new species closely resembles in the shape of its anal appendages *Moorei* Longfield, but the superiors are without the medial black tooth. The shape of this appendage is similar to that of *Whelani* Longfield, but the inferior appendage is broader and the angulation behind is more rounded (as in *Moorei*). The female with its dark abdominal markings differs from all purely african species.

Type and Allotype deposited in Museum of Paris.

***Ceriagrion rubellocerinum* Fraser.**

One male from Daloa, 22-V-53 (Côte d'Ivoire).

***Ceriagrion glabrum* Burmeister.** ♂♂, Mali

One male from Danane, 19-V-53 (Côte d'Ivoire) ; two males from Gouere, cercle de Bandiagara, 30-X-54 (Soudan) ; one female from Di, cercle de Tougan, 24-X-54 (Haute-Volta).

***Pseudagrion glaucescens* Selys.** ♂♂

Eight males and three females from Samandeni, 8-VI-53 ; Kadoba, cercle de Bobo-Dioulasso, 19-VI-53 ; Yabasso, cercle de Bobo-Dioulasso, 24-VI-53 (Haute-Volta).

***Pseudagrion melanicterum* Selys.** ♂♂ (cercle de Bobo-D.)

Two males from Kadoba, 19-VI-53.

***Pseudagrion Kersteni* Gerstaecker.** ♂♂

Two males from Kadoba, 19-VI-53 and Yabasso, 24-VI-53.

***Pseudagrion Hamoni*, n. sp.** ♂♂

One male from Yabasso, 24-VI-53. Abdomen 29 mm. Hindwing 19 mm. The anal appendages of this specimen are exactly similar to those of *P. acaciae* Förster and I would hesitate to describe it new if it was not for the entirely different marking of the head and thorax. It may possibly be a melanotic variety of *acaciae* but no such one has ever been reported.

Head : labium pale brown ; labrum, genae and epistome dark reddish brown, postclypeus, frons and vertex a dull black marked posteriorly with large transverse oval pale green postocular spots. Prothorax black with a large subdorsal spot and the outer ends of the posterior lobe yellow, these pale markings rather obscured by an overlay of pruinescence. Thorax black on dorsum to somewhat posterior to the humeral suture, complete moderately broad dark orange antehumeral stripes which broaden gradually below. Laterally pale green with black stripes on the two lateral sutures, incomplete on the lower half of the anterior one, the lower half of the sides and the whole of the pectus pulverulent white, this largely obscuring the black stripes. Wings hyaline ; 11 postnodals in forewings, 9 in the hind ; anal vein leaving border of wing well proximal of Ac ; pterostigma blood-red framed in black nervures, covering less than one cell, small and very acute especially at distal end. Legs black, femora pruinose white ; extensor sides of tibiae bright yellow. Abdomen black on dorsum, segments I and II pulverulent white on dorsum ; segment II with a pale green apical annule broadly interrupted with black on the dorsum ; narrow interrupted basal greenish annules on segments III to VI, the sides of these also greenish. Rest of abdomen black but rather broad basal blue annules on segments VIII and IX obscured by an overlay of white pruinescence. Anal appendages similar to those of *acaciae* (fig. 1, b).

In *P. acaciae*, the whole front of the face and labrum to as far as the hinder ocelli, is a bright cinnabar red and the postocular spots are only incompletely limited. The thorax is bright reddish yellow on dorsum with the middorsal carina finely black and the humeral black lines narrow. Segment II has a dorsal blue U-shaped marking which is quite absent in the present new species.

Holotype deposited in Museum of Paris.

Pseudagrion nubicum Selys. ♂f

Two males from Oué, cercle de Tougan, 24-X-54 and one other from Lanfiera, cercle de Tougan, 10-X-54 (Haute-Volta).

Ichnura senegalensis Rambur. ♂f

One male from Oué, 24-X-54.

Elatoneura glauca (Selys). ♂f

One male from Leguema, cercle de Bobo-Dioulasso, 17-VI-53 ; one female from Samandeni, 8-VI-53.

Aciagrion Hamoni, n. sp. ♂ & ♀

One female from Danané, 20-V-53. Abdomen 30 mm. Hindwing 21 mm. Head : labium white, labrum, genae and frons pale yellow (but certainly pale blue during life) ; vertex and occiput azure blue, an oblique black line separating the blue of vertex from the very large postocular spots which cover the occiput above and are connected medially by a narrow blue stripe ; these spots bordered outwardly by a narrow black line ; elsewhere and beneath head pale yellow. Prothorax azure blue with the sutures finely black. The anterior lobe with a process arising from it on each side and projecting forwards ; the posterior lobe broad and shallow, rounded ; the mesostigmal lamina nearly as broad and deeper than the posterior lobe, assuming the shape of a second posterior lobe which partially underlies that lobe. Thorax azure blue with black points at the upper ends of the humeral and postlateral sutures, that on the former continued as a narrow humeral stripe which broadly forks below ; finally a large black spot over the thoracic spiracle. The dorsum a deep blue, the sides paler and the pectus white. Legs pale yellow, only the distal ends of femora blackish. Wings hyaline ; 13 postnodals in forewings and 11 in the hind ; pterostigma dark golden brown framed in yellow, that of forewings nearly double the size of the hind, both nearly quadrate and somewhat oblique. Anal vein leaving the border of wing at level of Ac (as is usual for the genus). Abdomen azure blue on dorsum and sides, yellowish on ventrum ; segment I with a quadrate basal dorsal black spot, II with a subapical dorsal black spot which is connected by a narrow stalk to the apical black ring and to the base by a narrow middorsal black stripe (fig. 1, c) ; segments III to VII with the dorsum dark brown turning to black at apices of

segments where it expands rather broadly as subapical rings ; segments VIII to X a bright azure blue, IX bearing a dorsal basal bifid black spot extending for about the basal half of segment. Anal appendages very shortly conical, yellowish. Ovipositor yellow, of great size, extending well beyond the end of abdomen, the stylets black. Spine on apical border of segment VIII of great size (fig. 2, e).

This new species is remarkable for its overall azure-blue

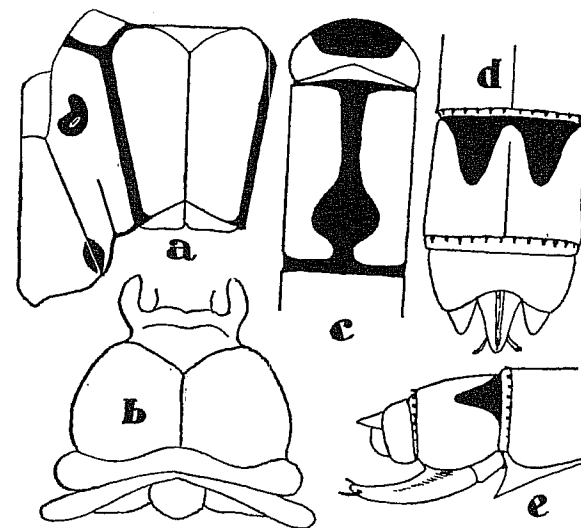


Fig. 2. — *Aciagrion Hamoni*, n. sp. : a, thoracic markings ; b, prothorax showing the processes of anterior lobe ; c, dorsal marking of segments I and II ; d, the same of segment IX ; e, end of abdomen viewed from the right side.

colouring and restricted dark markings which is quite unlike the colouring of *A. varians* Martin, *A. africanum* Martin and *A. attenuatum* Fraser. Species of this genus, from my experience of the oriental forms, are very inconspicuous from their cryptic colouring and habit of flying low among herbage or dry grasses, and are probably frequently overlooked.

Holotype deposited in Museum of Paris.

Enallagma nigradorsum Selys. ♂f

One male from Dara, cercle de Bandiagara, 29-X-54 (Soudan).

Family AGRIIDAE.

Chlorocypha curta Selys. ♂f

Two pairs from Nasso, cercle de Bobo-Dioulasso, 9-VI-53 and one pair from Leguema, 17-VI-53.

Phaon iridipennis Burmeister. ♂F

Two males from Samandeni, 8-VI-53 ; three males and two females from Nasso, 9-VI-53 ; one male from Leguema, 17-VI-53 ; one female from Kadoba, 19-VI-53 ; one pair from Yabasso, 24-VI-53.

Family AESHNIDAE.

Gynacantha villosa Grünberg. ♂F

One male from Bobo-Dioulasso, 31-V-53.

Family LIBELLULIDAE.

Orthetrum icteromelas Ris. ♂F, ♀I

Three males from Danané, 20-V-53 ; one female from Daloa, 22-V-53 ; three males from Leguema, 17-VI-53.

Orthetrum brachiale Beauvois. ♂F

Five males from Yabasso, 24-VI-53.

Orthetrum guineense Ris. ♂F

Two males and one female from Yabasso, 24-VI-53, and two males and one female from Leguema, 17-VI-53.

Orthetrum stemmale capense Calvert. ♂F = Julia?

Five males and one female from Leguema, 17-VI-53 ; one male from Bobo-Dioulasso, VIII-53.

Orthetrum chrysostigma chrysostigma Burmeister. ♂F

One female from Bobo-Dioulasso, 31-XII-52 (doubtfully referred to this species, but may be one of *guineense*, the female sex of the two species being very similar).

Palpopleura lucia Drury. ♂F

Three males heteromorphs, two males andromorphs and two females from Danané, 20-V-53 ; five males andromorphs and one female from Leguema, 17-VI-53 ; three females from Kadoba, 19-VI-53 ; seven males heteromorphs, one male andromorph and one female from Yabasso, 24-VI-53.

Chalcostephia coronata flavifrons Kirby. ♂F

Two males from Danané, 20-V-53 ; one female from Leguema, 17-VI-53 ; eight males and one female from Yabasso, 24-VI-53.

Diplacodes Lefebvrei Rambur. ♂F

Nineteen males from Markoye, cercle de Dori, 4-XI-52 (Haute-Volta).

Diplacodes exilis Ris. Mali, ♂F

Two females from Di, 19-X-54 ; two others from Oué, 24-X-54 ; two others from Oula, cercle de Bandiagara, 27-X-54 (Soudan).

Crocothemis erythraea Brullé. ♂F

One male from Yabasso, 24-VI-53 ; two males and one female from Di, 19-X-54 ; one male from Oué, 24-X-54 ; one other from Oula, 27-X-54.

Trithemis arteriosa Burmeister. ♂F

One male from Leguema, 17-VI-53.

Trithemis annulata Beauvois. ♂F

Seven males from Oué, 24-X-54.

Trithemis Monardi Ris. ♂F

One male from Oué, 24-X-54.

Trithemis kalula Kirby. ♂F

Two males from Leguema, 17-VI-53.

Urothemis Edwardsi Selys.

One male from Lanfiera, 10-X-54.

Zygonyx torrida Kirby. ♂F

One male from Leguema, 17-VI-53.

Pantala flavescens Fieber.

One male from Di, 19-X-54.

Tholymis tillarga Fieber. ♂F

One male from Bobo-Dioulasso, 31-V-53 ; one female from Kadoba, 19-VI-53.

Tramea basilaris Beauvois. ♂F

One male from Bobo-Dioulasso, 31-V-53 ; one other from Di, 19-X-54.