

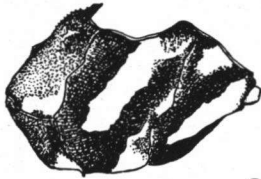
**ORTHEMIS FLAVOPICTA KIRBY, NEW  
FOR PANAMA (ANISOPTERA: LIBELLU-  
LIDAE)**

On a trip to the Panama Canal Zone in July-August 1979, my wife and I collected 13 male *Orthemis* which keyed out to *O. attenuata* (Erichson) in P.P. CALVERT (1906, *Biologia cent.-am.*, p. 234) and to *O. flavopicta* Kirby in P.P. CALVERT (1899, *An. Mus. nac. B. Aires* 7: 25-35) and in F. RIS (1910, *Collns Zool. de Selys Longchamps* 11, p. 281). In October, 1979, I compared the specimens with material in the Williamson collection at Ann Arbor, Michigan. They compared favorably with poorly preserved specimens of *O. flavopicta*, det. Ris, from Para, Brazil, but because of their bad condition, I could not be sure that my specimens represented this species. In September, 1981, I compared the same specimens to the lectotype and paralectotypes of *O. flavopicta* in the British Museum (Nat. Hist.) and found them to be conspecific. The Panamanian



1

5mm



2



3

1mm



4

Figs. 1-2. Color pattern of pterothorax of *Orthemis flavopicta* Kirby: (1) Paralectotype male, Para, Brazil; — (2) Male from Panama Canal Zone, trail near palm forest by Pipeline Rd, 7 km NW of Gamboa. Light color on mesepisternum represents blue pruinosity which obscures yellow antehumeral stripe.

Figs. 3-4. Secondary genitalia (genital lobe, hamule, anterior lamina) of *Orthemis flavopicta*: (3) Paralectotype, same data as Fig. 1; — (4) Same specimen as Fig. 2.

specimens differed from the types and figure given by W.F. KIRBY (1889, *Trans. zool. Soc. Lond.* 12: 249-348) in possessing blue pruinosity across the mesepisterna, thus obscuring the yellow antehumeral stripe (Figs 1, 2), and in having deeply infumated wings. Later, Dr Angelo B.M. Machado kindly sent me a male from Goiás, Jatai, Brazil, which I also believe represents *O. flavopicta*. The wings in that specimen are more hyaline, but the blue pruinosity is the same as in the Panamanian specimens.

This species is poorly known, and neither CALVERT (1899; cf. above) nor RIS (1910; cf. above) figured it. Figures 1 and 3 are one of the paralectotype males and figures 2 and 4 are one of the Panamanian specimens. The pruinosity on most of the other specimens from the Canal Zone extends to the metepisterna, thus largely obscuring the lateral yellow thoracic stripes.

*Orthemis flavopicta* was found in the Panama Canal Zone along small, shaded puddles on a trail near a palm forest by Pipeline

Road, 7 km NW of Gamboa; and a few others were taken at similar habitats on a forest road at Gaillard Hwy, milepost 12, 7.4 km SE of Gamboa. *Orthemis cultriformis* Calv. was often in company with *O. flavopicta* and both preferred shady areas along the trail compared with *O. ferruginea* (Fabr.), which flew in sunny, open spaces. Until these captures, *O. flavopicta* had been known only from Brazil, Peru (J. RACENIS, 1959, *Acta biol. venez.* 2(34): 512), and Argentina (D.R. PAULSON, 1977, *Odonata*, in: S.H. Hurlbert, Ed., *Biota acuática de Sudamerica austral*, p. 177). The captures from Panama represent the most northerly records for this species.

I thank Dr ANGELO B.M. MACHADO for the gift of *O. flavopicta* and Mr STEVEN J. BROOKS of the British Museum (Nat. Hist.) for allowing me to examine the types of *O. flavopicta*.

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