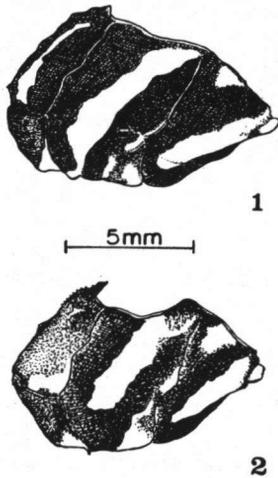
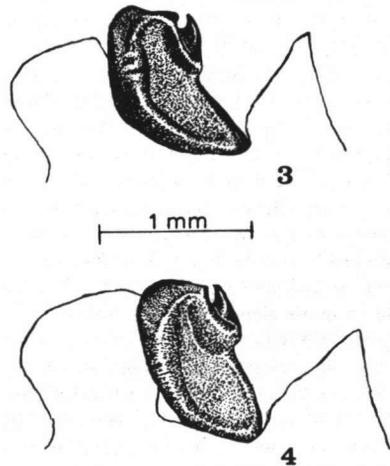


**ORTHEMIS FLAVOPICTA KIRBY, NEW
FOR PANAMA (ANISOPTERA: LIBELLU-
LIDAE)**

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



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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