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ODONATA DIVERSITY IN A TROPICAL DRY FOREST OF MEXICO, 1. SIERRA DE HUAUTLA, MORELOS

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A study of the fauna of Odonata of a tropical deciduous forest is presented. Collections were made monthly during a 1-yr period (Nov. 1995-Oct. 1996) during 5 days each month. A total of 2595 adult specimens were collected, belonging to 57 species, 33 genera and 8 families. Estimated richness value using the non-parametric estimator ICE was 76.28.

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FACTORS IN THE SELECTION OF OVIPOSITION MODE IN *SYMPETRUM INFUSCATUM* (SELYS) (ANISOPTERA: LIBELLULIDAE)

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The study was conducted at rice paddies in the cool temperate area of central Japan. The oviposition time period was limited to between ca 10:00 a.m. and 14:00 p.m. with a peak around noon. At an ambient temperature (Ta) below 30°C most pairs oviposited in tandem (TO) but at a Ta above 30°C in mid-summer most pairs separated shortly after the start of TO. The ♀♀ continued to oviposit while being escorted by their partners. The regression coefficient of ♂ body temperature (Tb) in ovipositing pairs was characteristically greater than that of the ♀, and it is suggested that the ♂ is more dependent on Ta than is the ♀. Although the duration of oviposition was a little longer in pairs that separated after the start of oviposition, this difference was not significant. The reason why *S. infuscatum* starts oviposition in such a hot season of summer seems to be due to the morphological feature of its slender abdomen, which decreases abdominal light absorption at low Ta in the autumn.

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AESHNIDAE OF GUANGDONG AND HONG KONG (CHINA), WITH THE DESCRIPTIONS OF THREE NEW *PLANAESCHNA* SPECIES (ANISOPTERA)

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Taxonomic information is provided on the Chinese aeshnid fauna from Guangdong and Hong Kong, based on surveys completed from 1998 to 2005. *Planaeschna haui* sp. n. (holotype: ♂, Shimentai, Guangdong), *P. nanlingensis* sp. n. (holotype: ♂, Nanling, Guangdong) and *P. skiaperipola* sp. n. (holotype: ♂, Shimentai, Guangdong) are described. *Periaeschna rotunda* Wilson is synonymised with *Cephalaeschna klotsi* Asahina. *Petaliaeschna gerrhon* Wilson is combined with the genus *Periaeschna* Martin and the first ♀ described. *Boyeria karube* Yokoi is newly recorded from China. Keys are provided for the determination of Oriental Brachytronini genera and identification of Chinese spp. of ♂ *Cephalaeschna* Selys, *Periaeschna* Martin and *Petaliaeschna* Fraser. A total of 25 aeshnids are recorded from Guangdong, including 3 new spp., and 3 new provincial records. 12 aeshnids are recorded from Hong Kong, including *Planaeschna skiaperipola* sp. n. (paratype: ♀, Wu Kau Tang, Hong Kong).

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SHORT COMMUNICATIONS

FIRST DESCRIPTION OF FEMALE *ELATTONEURA CAESIA* (SELYS, 1860) AND AMENDED DESCRIPTIONS OF MALE *E. CAESIA* AND MALE AND FEMALE *E. CENTRALIS* (SELYS, 1860) FROM SRI LANKA, WITH NOTES ON BEHAVIOUR, HABITAT, DISTRIBUTION AND FIELD IDENTIFICATION CHARACTERS (ZYGOPTERA: PROTONEURIDAE)

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The ♀ of *E. caesia* is described and figured for the first time. In earlier publications, *E. caesia* and *E. centralis* were confused with each other (cf. F.C. FRASER, 1933, *The fauna of British India including Ceylon and Burma: Odonata*, vol. 1, pp. 238-241, Taylor & Francis, London). Amended descriptions of the ♂ of *E. caesia* and of both sexes of *E. centralis* are provided. Key phenotypic differences between the 2 spp. are illustrated, and additional notes are given on behaviour, habitat and distribution.

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DESCRIPTION OF THE LAST INSTAR LARVA OF *ARGIA BARRETTI* CALVERT (ZYGOPTERA: COENAGRIONIDAE)

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The larva of *A. barretti* is described for the first time and compared with those of *A. harknessi* from Mexico and *A. joergenseni* from Argentina. Based upon larval characters these 3 spp. appear closely related, mainly by features such as: similar colour pattern of antennae, femora and caudal lamellae; mandibular formula; size of ligula; one palpal seta; shape of male and female gonapophyses, and the presence of claviform setae on abdominal sternite 8 and gonapophyses.

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CALICNEMIA ZHUAE SPEC. NOV. FROM SHAANXI, CHINA (ZYGOPTERA: PLATYCNEMIDIDAE)

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Both sexes of the new sp. are described and illustrated. Holotype ♂ and allotype ♀: China, Shaanxi prov., Langao co., Mt Dubashan, alt. 1200 m, 28-VII-2006; both deposited with the Shaanxi Bioresource Key Laboratory, Hanzhong, China. The pattern of the head and synthorax are similar to *C. miles* (Laidl.), from which the new sp. differs in pattern of the top of the abdomen and in the structure of anal appendages and penile organ.