NOTES ON SOME DAMSELFLIES OF CALCUTTA (ODONATA: ZYGOPTERA)

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ABSTRACT: Fifteen species of damselflies were collected from Calcutta during a survey made by the authors from September 1966 to November 1970. Eight of these belong to the family Coenagrionidae and are reported here. Four species, *Pseudagrion malabaricum*, *Ischnura aurora aurora*, *Enallagma parvum* and *Agriocnemis piers* are new records from eastern India; two species, *Enallagma malayanum* and *Agriocnemis dabrei* are new records from Bengal (the state of West Bengal of Indian Union and Bangladesh). Notes on the distribution of *Agriocnemis lacteola* and *Ischnura rufostigma* in Bengal are also given.

Introduction

A survey of the Odonate fauna of Calcutta was conducted during the period September 1966 to November 1970. During the survey fifteen species in the families Platycnemididae and Coenagrionidae were collected. Eight species in the family Coenagrionidae are particularly interesting. The species reported in the present article are distributed over four genera and three subfamilies and are all old world species. Remarks are given on their geographical distribution, and any noteworthy variations from the descriptions of the species provided by Fraser (1933) are also reported.

Systematic Account

Family : Coenagrionidae
1. Subfamily : Pseudagrioninae
Genus : *Pseudagrion* Selys.

*Pseudagrion malabaricum* Fraser, 1924.


1 Accepted for publication: March 22, 1976
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Remarks: This is the first record of its distribution in eastern India. Hitherto, it has been known to exist "throughout the Western Ghats in submontane and montane areas from South Kanara to Ceylon" (= Sree Lanka) (Fraser, 1933).

2. Subfamily: Ischnurinae
Genus: Ischnura Charpentier

*Ischnura aurora aurora* (Brauer)


Material examined: 1♂, 16th October, 1966; Dakshineswar, 1♂, 23rd October, 1966, Dakshineswar; 1♂, 29th January, 1967, Eden gardens.

Remarks: This is the first report of occurrence of this species in Eastern India. Previously it has been recorded within the Indian Union from Maharashtra (Laidlaw, 1919), Coimbatore, Cochin, Mercara, Kanara, Malabar, Nilgiris (Fraser, 1931), Mysore, Kerala (Fraser, 1933), Madras and Uttar Pradesh (Bhasin, 1953).

*Ischnura rufostigma* Selys, 1876

*Ischnura rufostigma* Selys, Bull. Acad. Belg. (2) 41: 283 (1876).


Remarks: Although Laidlaw (1916) reported its occurrence in Calcutta (only reported locality in Bengal), Fraser (1933) remarked that he did not come across it in that neighbourhood. The present specimen constitutes only its second record in Bengal. It has also been reported from Bihar, Assam and Madhya Pradesh (Fraser, 1933) and Burma (Bhasin, 1953).

Genus: *Enallagma* Charpentier

*Enallagma malayanum* Selys, 1876

*Enallagma malayanum* Selys, Bull. Acad. Belg. 2 (41): 536 (1876).

Remarks: This species has earlier been reported from Maharastra (Laidlaw, 1919) and Assam (Fraser, 1933) within the Indian limit. The present specimens constitute its first occurrence in Bengal. Besides India, Sri Lanka (Laidlaw, 1951 and Fraser, 1933) and Indonesia (Lieftinck, 1954) have been recorded as places of its occurrence.

*Enallagma parvum* Selys, 1876

*Enallagma parvum* Selys, Bull. Acad. Belg., (2) 41: 537 (1876).


Remarks: Although this species has earlier been reported from the Western Ghats (Fraser, 1924), the present specimens constitute its first occurrence in eastern India. Outside the Indian Union, Sri Lanka (Fraser, 1933 and Laidlaw, 1951), Burma (Fraser, 1933) and Indonesia (Lieftinck, 1954) have been reported as places of its occurrence.

3. Subfamily: Agriocneminae
Genus: *Agriocnemis* Selys

*Agriocnemis lacteola* Selys, 1877


Material examined: 2♂♂, 22nd September, 1966, Behala.

Remarks: Although the species has previously been known from the Duars of Bengal, Sikkim and Assam (Fraser, 1933) and Bihar (Laidlaw, 1919), the present specimens constitute its first occurrence in Deltaic Bengal.

*Agriocnemis pieris* Laidlaw, 1919


Remarks: This endemic Indian species has hitherto been reported from Kanara (Laidlaw, 1919), Mysore, Tamil Nadu and Kerala (Fraser, 1924). The
present specimens constitute its first occurrence in eastern India.

_Agriocnemis dabhreui_ Fraser, 1919


Remarks: The species has hitherto been reported from Assam and Madhya Pradesh in the Indian Union (Fraser, 1933 and 1919). The present specimens constitute its first occurrence in Bengal. Outside the Indian Union, it has been recorded from Burma (Lieftinck, 1948) and Bhasin (1953), Thailand and Malaysia (Lieftinck, 1954 and Fraser, 1933). The specimens do not have the anchor shaped mark on the terminal segments of the abdomen. In this feature, Calcutta forms agree with the forms of Burma and Thailand.

ACKNOWLEDGEMENTS

The authors are thankful to Prof. D.N. Ganguly, Head of the Department of Zoology, Calcutta University, for facilities and to Dr. D.N. Ray Chaudhuri of the same department for guidance.

REFERENCES


Fraser, F.C. 1931. Additions to the survey of the Odonate (Dragonfly) fauna of Western Indian, with descriptions of nine new species. Rec. Indian Mus., 33: 443-474.


