

CONTRIBUTION TO THE STUDY OF LITTORAL DIPTERANS I.
ON A COLLECTION OF CERATOPOGONIDAE,
CHIRONOMIDAE, PSYCHODIDAE AND
TABANIDAE FROM SAGAR
ISLAND, SUNDARBAN.

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INTRODUCTION

This paper deals with the Dipteran insects collected during July, 1982 to December, 1983 from the intertidal zone of Ganga estuary, Sagar Island.

The families dealt with are Ceratopogonidae, Chironomidae, Psychodidae and Tabanidae.

Soils were collected at every fortnight from the intertidal zone and larvae and pupae were isolated in the laboratory of Susama Devichoudhurani Marine Biological Research Institute, Sagar Island by standardized floatation technique (Davies and Linley, 1966). After isolation, larvae and pupae were reared in the laboratory and adult Dipterans were collected.

SYSTEMATIC ACCOUNT

Order : DIPTERA
Suborder : NEMATOCERA
Family : CERATOPOGONIDAE
Tribe : **Ceratopogonini**

1. **Alluaudomyia maculosipennis** Tokunaga

1940. *Alluaudomyia maculosipennis* Tokunaga *Tenthredo* 3 : 181.
1942. *Alluaudomyia maculosipennis* Okada, *Trans. Nat. Hist. Soc. Formosa* 32 : 316
(Tiwan)
1959. *Alluaudomyia maculosipennis* Tok. and Mur. *Ins. Micronesia* 12 : 353 (Palau
and Yap Is.)
1964. *Alluaudomyia maculosipennis* Wirth and Delfinado *Pacific Insect* 6 (4) : 627.

Materials : 4 ex (1 ♂ 3 ♀), Dhablat, Sagar South and Beguakhali, 19.ix.1984.

Distribution : Formosa, Java, Malaya, Philippines (Mindanao), Thailand, Viet Nam, Caroline Islands, Sri Lanka (Ceylon), India.

Remark : The species is being reported from India for the first time.

2. *Alluaudomyia formosana* Okada

1942. *Alluaudomyia maculipennis* (Carter, Ingran and Macfie) var. *formosana* Okada, Trans. Nat. Hist. Soc. Formosa 32 : 317.

Materials : 5 ex (5 ♀ ♀), Dhablat, Sagar South and Beguakhali, 19.ix.1984.

Distribution : Formosa, Malaya, Thailand, Sri Lanka (Ceylon) and India.

Remark : The species is being reported from India for the first time.

Tribe : Culicoidini

3. *Culicoides oxystoma* Kieffer

1910. *Culicoides oxystoma* Kieffer, Mem. Indian. Mus. 2 : 193 (♀).

1913. *Culicoides kiefferi* Patton, Ind. J. Med. Res. 1 : 336 (♂ ♀ Pl ; Proce. Goetghebuer 1910).

1921. *Culicoides pattoni* Kieffer, Bull. Soc. Ent. Fr.

1921. (n name for kiefferi Patton)

1938. *Culicoides housei* Causey, Am. J. Hyg. 27 : 407 (♂).

1951. *Culicoides punctigerus* Tokunaga, Scient. Rep. Saikyo. Univ. (Agric) 1 : 101 (♂ ♀).

1956. *Culicoides alatus* Dasgupta and Ghosh, Bull, Cal. Sch. Trop. Med. Hyg. 4 : 162 (♀).

Materials : 7 ex (4 ♂ ♂, 3 ♀ ♀), Sagar South, Dhablat and Beguakhali, 19.ix.1984.

Distribution : India, Bangkok, Thailand, Batavia (Djakarta), Java.

4. *Culicoides peliliouensis* Tokunaga

1936. *Culicoides peliliouensis* Tokunaga, Mushi 9 : 55 (♀).

1961. *Culicoides ejercitoi* Delfinado, Fieldiana. zool. 33 : 643 (♀).

Materials : 21 ex (14 ♂ ♂, 7 ♀ ♀) Sagar South, Beguakhali 19.ix.84.

Distribution : Akarokuru, Peliliou Island, Palan, Sink, Calamianes (Cuilon) Island, Palawan, Philippines, India.

Remark : This species is also being reported from India for the first time.

5. **Culicoides similis** Carter, Ingran and Macfie.

1920. *Culicoides similis* Carter, Ingran and Macfie Ann. Trop. Med. Parasitol. 14 : 255 (♂ ♀).

Materials : 4 ex (2 ♂ ♂, 2 ♀ ♀), Dhablat, Sagar South and Beguakhali, 19.ix.1984.

Distribution : India, Laos, Malaya, Thailand and Africa.

Tribe : **Sphaeromiini**6. **Nilobezzia acanthopus** (de Meijere)

1907. *Ceratopogon* (*Bezzia*) *acanthopus* de Meijere Tijdschr. Ent. 50 : 215 (♀).

1931. *Bezzia* (*Nilobezzia*) *acanthopus* (de Meijere) Johannsen 439.

1931. *Bezzia* (*Nilobezzia*) *raphaelis* var. *conspicua* Johannsen 411.

1934b. *Nilobezzia conspicua* (Johannsen) 441.

Materials : 4 ex (4 ♀ ♀) Dhablat, Sagar South and Beguakhali, 19.ix.1984.

Distribution : Java, Sumatra, Thailand, India.

Remarks : The species is being reported from India for the first time.

Family : CHIRONOMIDAE

Tribe : Chironomini

7. **Chironomus barbatitarsis** Kieffer

1911. *Chironomus barbatitarsis* Kieffer, Rec. Indian. Mus 6 : 154.

Materials : 4 ex (2 ♂ 2 ♀) Dhablat, Beguakhali and Sagar South.

Distribution : Burma, India.

Superfamily : PSYCHODOIDEA

Family : PSYCHODIDAE

Subfamily : PSYCHODINAE

8. **Psychoda nigripennis** Brunetti

1908. *Psychoda nigripennis* Brunetti, Rec. Indian. Mus. 2 : 376 (♂ ♀).

Material : 4 ex (2 ♂ 2 ♀) Dhablat, Beguakhali and Sagar South, 6.iii.1983.

Distribution : India.

Suborder : BRACHYCERA

Family : TABANIDAE

Subfamily : TABANINAE

Tribe : **Tabanini**

9. *Tabanus striatus* Fabricius

1778. *Tabanus striatus* Fabricius, Mantissa Insect 2 : 256 (sex ?).

1827?. *chinensis* Thunberg Nova. Acta. Soc. Sci. Upsal 9 : 61 (? sex).

1842?. *dorsilinea* Wiedemann, Analecta Ent. ?? (♂).

1850. *Tabanus hilaris* Walker, Insecta Saundersiana 1 : 49 (♂).

Materials : 4 ex, (3♂ 1♀), Dhablat, Beguakhali and Sagar South (Sex ?)

Distribution : Ceylon, China, India, N. Thailand, N. Viet Nam. W. Pakistan and Africa.

10. *Atylotus agrestis* (Wiedemann)

1828. *Atylotus agrestis* (Wiedemann) Aussereurop. zweifl. Insekt. 1 : 557 (♂ *Tabanus*).

1838. *Atylotus ditoeniatus* Maequart, Dept. exot. 1 (1) : 126 (130) (♂ ♀ as *Tabanus ditoeniatus*, p. 215 (219)).

1850. *Atylotus pyrrhus* Walker, Insecta Saundersiana 1 : 47 (♂ ♀ *Tabanus*).

1868. *Atylotus agricola* of Schiner, not Wiedemann, mis identification.

SUMMARY

The present paper is based on a collection of Dipterans from littoral zone of the Ganga estuary. Six species of Ceratopogonidae, one species of Chironomidae, one species of Psychodidae and two species of Tabanidae are reported in this paper. Four species viz. *Alluaudomyia maculosipennis* Tokunaga, *Alluaudomyia formosana* Okada *Culicoides peliliouensis* Tokunaga and *Nilobezzia acanthopus* (de Meijere) are being recorded from India for the first time.

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