



The Tribe Bembidiini Stephens 1827 (Carabidae: Coleoptera) From Uttar Pradesh State With Six New Records From The State And One New Record From India

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Introduction

Carabidae is one of the largest family of the order Coleoptera. It comprises 34,275 species in the world (Lorenz, 2005). In India, it is represented by nearly 2000 species (Saha, 1992). These beetles are cosmopolitan in distribution. They live under bark, under log, under stone, at light, vicinity of water and sand bank of water bodies etc. Most of the Carabid beetles are carnivorous and nocturnal. Carabid beetles of the Genera Bembidion Latreille and Tachys Stephens are particularly found at the vicinity of the water bodies, hiding below the mosses, rotten plant materials and any other decaying materials even during day time also. After Andrewes (1935) there is no comprehensive study on the Carabid beetle tribe Bembidiini of Uttar Pradesh state, an attempt has been made to throw some light on the same. During the survey of Uttar Pradesh state the carabid beetles were sorted out and identified based on their morphological characters and few photographs of the species are also appended.

Systematic Account

Order Coleoptera

Suborder Adephaga

Family Carabidae Latreille, 1802

Tribe Bembidiini Stephens, 1827

Genus *Bembidion* Latreille, 1802

1802. Bembidion Latreille, Hist. Nat. Crust. et. Ins. 3::82.

***Bembidion loricatum* Andrewes**

1922. Bembidion loricatum Andrewes, *Ent. Month. Mag.* 239.

1935. Bembidion loricatum, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplina 1: 103.

Material examined: India: Uttar Pradesh: Barabanki, Banki, Muhammadpur, 20.iii.2012, N26°56'45.1" E 81°10'25", A. Sarand Party, (Reg. no. 19581/H4A).

Distribution: India: Uttar Pradesh, Bihar, and Uttarakhand.

Elsewhere: Pakistan.

***Bembidion luniferum* Andrewes**

1924. Bembidion luniferum Andrewes, *Ent. Month. Mag.*:192.

1935. Bembidion luniferum, Andrewes, *Faun. Brit. Ind.*

incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 101.

Material examined: Not seen.

Distribution: India: Uttar Pradesh, and Uttarakhand.

Elsewhere: NIL.

***Bembidion niloticum* (Dejean)**



1831. *Bembidium niloticum* Dejean, Spec. Gen. Col. 5: 73.

1914. *Bembidion niloticum* Netolitzky, Ent. Blatt.: 167.

1935. *Bembidion niloticum*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 199.

Material examined: India: Uttar Pradesh: 1 ex. Barabanki, Sultanpur, 21.iii.2012, A. Sar and Party.

Distribution: India: Haryana, Uttarakhand, Nagaland, West Bengal and Uttar Pradesh.

Elsewhere: Pakistan, Iran, Saudi Arabia, Egypt, Iraq, China, Turkey, Japan, Laos, Vietnam, and Cambodia.

Remarks: This species has been recorded for the first time from Uttar Pradesh.

***Bembidion notatum* (Andrewes)**



1922. *Bembidium notatum* Andrewes, Ent. Month. Mag. : 175.

1933. *Bembidion notatum* Jedlicka, Acta Soc. ent. Cech. 30: 3, and 9.

1935. *Bembidion notatum*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon,

Carabidae 2, Haraplini 1: 155.

Material examined: India: Uttar Pradesh: 1 ex. Hardoi, Neer, Bhais ka Nala, 20.ii.2011, VDH, Ex. in soil crevices]

Distribution: India: Himachal Pradesh, Uttarakhand, West Bengal, Meghalaya, and Uttar Pradesh.

Elsewhere: NIL.

Remarks: This species has been recorded for the first time from Uttar Pradesh.

***Bembidion sobrinum* (Boheman)**

1848. *Bembidium sobrinum* Boheman, Ins. Caffr. 1: 232.

1931. *Bembidion sobrinum* Netolitzky, Wien. Ent. Zeit. Hist. : 176-178.

1935. *Bembidion sobrinum*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 201.

Material examined: INDIA: Uttar Pradesh: 1 ex. Mathura, Kishori Kunj, 17.xi.2010, OPS, (Reg. No. 19615/H4A).

Distribution: INDIA: Plains of India and Uttar Pradesh.

Elsewhere: Sri Lanka, Myanmar, Thailand, Cambodia, Indonesia, South Africa and East African Countries.

***Bembidion xanthacrum* Chaudoir**

1850. *Bembidion xanthacrum* Chaudoir, Bull. De la soc. Imp. Des nat. Mosc. 2: 175 (note).

1892. *Bembidion xanthotelum* Bates, ANN. MUS. CIV. STO. NAT. GEN. 32: 287.

1935. *Bembidion xanthacrum*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 98.

Material examined: India: Uttar Pradesh: Chandauli, 17.iv.2007, S.K. Chatterjee, Ex. Bank of Ganga River (Reg. No. 19606/H4A).

Distribution: India: Maharashtra, Himachal Pradesh, Uttar Pradesh, Uttarakhand, Madhya Pradesh, Tamil Nadu, Kerala, Andhra Pradesh, West Bengal, Assam and Bihar.

Elsewhere: Pakistan, Myanmar, Thailand, Vietnam, Laos and Cambodia

***Bembidion xanthochiton* (Andrewes)**



1922. *Bembidium xanthochiton* Andrewes, Ent. Month. Mag. : 176.

1933. *Bembidion xanthochiton* Jedlicka, Acta. Soc. ent. Cech. 30: 3 and 8.

1935. *Bembidion xanthochiton*, Andrewes, Faun. Brit. Ind. incl.

Burma and Ceylon, Carabidae 2, Haraplini 1: 154.

Material examined: India: Uttar Pradesh: 1 ex. Hardoi, Neer, Bhais Ka Nala, 20.ii.2011, VDH, Ex. wet land (Reg. no. 19637/H4A).

Distribution: India: Himachal Pradesh, Uttarakhand, West Bengal and Uttar Pradesh.

Elsewhere: NIL.

Remarks: This species has been recorded for the first time from Uttar Pradesh.

Tachys Stephens, 1828

1828. *Tachys Stephens*, Ill. Brit. Ent. 2: 2, 4.

Tachys babaulti Andrewes



1924. *Tachys babaulti* Andrewes, in Miss. dans les Prov. Centr. De l'Inde et dans la reg. occi. De l'Himalaya, 1914, par Guy Babault, Carab. : 87, t.2, f.1.

1935. *Tachys babaulti*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 271.

Material examined: India: Uttar Pradesh: 1 ex. Lalitpur, Jailwara, 14.x.2011, Alt. 296m., BL, Ex. near stream (Reg. No. 19592/H4A).

Distribution: India: Uttarakhand, Maharashtra, Madhya Pradesh, Tamil Nadu, Kerala and Uttar Pradesh.

Elsewhere: Pakistan.

Remarks: This species has been recorded for the first time from Uttar Pradesh.

Tachys blandus Andrewes



1892. *Tachys haemorrhoidalis* Bates, Ann. Soc. Ent. Belg.: 230.

1924. *Tachys blandus* Andrewes, in Miss. dans les Prov. Centr. De l'Inde et dans la reg. occi. De l'Himalaya, 1914, par Guy Babault, Carab. : 85, t.1, f.8.

1935. *Tachys blandus*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 276.

Material examined: India: Uttar Pradesh: 1 ex. Mathura, Kishori Kunj, 17.xi.2010, OPS, (Reg. No. 19667/H4A).

Distribution: India: Uttarakhand, Madhya Pradesh, Jharkhand, Maharashtra, Karnataka, Andhra Pradesh and Uttar Pradesh.

Elsewhere: Pakistan.

Remarks: This species has been recorded for the first time from Uttar Pradesh.

Tachys dulcis Andrewes

1925. *Tachys dulcis* Andrewes, Ann. Mus. Civ. Sto. Nat. Gen. 51: 395.

1935. *Tachys dulcis*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 240.

Material examined: Not seen.

Distribution: India: Uttar Pradesh.

Elsewhere: NIL.

Tachys fumigates Motchulsky

1851. *Tachys fumigatus* Motchulsky, Bull. De la soc. Imp. Des nat. Mosc. 2: 509.

1935. *Tachys fumigatus*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 287.

Material examined: India: Uttar Pradesh: 1 ex. Lucknow, Kukrail Forest Area, 17.ii.2011, VDH, Ex. at pond edge.

Distribution: India: Uttar Pradesh.

Elsewhere: Southern Asia From Japan To New Guinea And From Philippines To Est Africa and Madagascar.

Tachys klugi (Nietner)

1858. *Bembidium klugi* Nietner, Ann. Mag. Nat. Hist. (3) 2: 423.

1886. *Tachys klugi* Bates, Ann. Mag. Nat. Hist. (5) 17: 155.

1935. *Tachys klugi*, Andrewes, Faun. Brit. Ind. incl. Burma and Ceylon, Carabidae 2, Haraplini 1: 252.

Material examined: India: Uttar Pradesh: 1 ex. Mathura, Kishori Kunj, 17.xi.2010, OPS, (Reg. No. 19667/H4A).

Distribution: India: Common throughout India.

Elsewhere: South East Asia.

***Tachys latus* Peyron**

1858. *Tachys latus* Peyron, *Ann. Soc. Ent. Fr.*: 364. t. 9. f. 3.

1935. *Tachys latus*, Andrewes, *Faun. Brit. Ind. incl. Burma and Ceylon*, *Carabidae* 2, Haraplini 1: 249.

Material examined: Not seen.

Distribution: India: Kashmir, Uttar Pradesh, Uttarakhand, West Bengal, and Bihar.

Elsewhere: Sri Lanka, Bangladesh, Myanmar, Indonesia, Vietnam, Iraq, and Turkey.

***Tachys latus* var. *virgatus* Andrewes**



1925. *Tachys latus* var. *virgatus* Andrewes, *Ann. Mus. Civ. Gen.* 51: 440.

1935. *Tachys latus* var. *virgatus*, Andrewes, *Faun. Brit. Ind. incl. Burma and Ceylon*, *Carabidae* 2, Haraplini 1: 250.

Material examined: India: Uttar Pradesh: 1 ex. Sitapur, Tendua Jheel, 24.ii.2011, VDH, Ex. Wet Land (Reg. no. 19668/H4A).

Distribution: India: West Bengal and Uttar Pradesh.

Elsewhere: NIL.

Remarks: This species has been recorded for the first time from Uttar Pradesh.

***Tachys opalescens* Andrewes**



1925. *Tachys opalescens* Andrewes, *Ann. Mus. Civ. Gen.* 51: 342 and 352.

1935. *Tachys opalescens*, Andrewes, *Faun. Brit. Ind. incl. Burma and Ceylon*, *Carabidae* 2, Haraplini 1: 219.

Material examined: India: Uttar Pradesh: 1 ex. Auraiya, Fatehpur near Muradganj, 20.x.2011, BL, Ex. Leaf litter (Reg. No. 19672/H4A).

Distribution: India: Uttar Pradesh.

Elsewhere: Sri Lanka.

Remarks: This Species has been recorded for the first time from India.

***Tachys ornatus* Apetz**

1854. *Bembidium ornatus* Apetz, *Col. Brehm.*: 12.

1926. *Tachys ornatus*, Andrewes, *Fauna of British India including Burma and Ceylon*, *Coleoptera*, *Carabidae* 1: 16. f. 4a.

1935. *Tachys ornatus*, Andrewes, *Faun. Brit. Ind. incl. Burma and Ceylon*, *Carabidae* 2, Haraplini 1: 254.

Material examined: India: Uttar Pradesh: 1 ex. Shahjahanpur, Khannaut River Bank, 01.iii.2011, VDH, Ex. in soil crevices (Reg. No. 19662/H4A).

Distribution: India: Uttar Pradesh, Uttarakhand, Jharkhand, Odisha, Maharashtra, Madhya Pradesh, Tamil Nadu, and Karnataka.

Elsewhere: Philippines, Saudi Arabia, Egypt, Sudan, Ethiopia, Namibia.

***Tachys poecilopterus* Bates**

1873. *Tachys poecilopterus* Bates, *Trans. Ent. Soc. Lond.* 331.

1935. *Tachys poecilopterus*, Andrewes, *Faun. Brit. Ind. incl. Burma and Ceylon*, *Carabidae* 2, Haraplini 1: 259.

Material examined: India: Uttar Pradesh: 1 ex. Barabanki, Sultanpur, 21.iii.2012, A. Sar and party, (Reg. No. 19671/H4A).

Distribution: India: Uttar Pradesh, Uttarakhand, Assam, Sikkim, and West Bengal.

Elsewhere: Myanmar, Malaysia, Singapore, Thailand, Vietnam, Laos, Cambodia, Indonesia, and China.

***Tachys politus* Motchulsky**

1851. *Tachys politus* Motchulsky, *Bull. De la soc. Imp. Des nat. Mosc.* 2: 509.

1935. *Tachys politus*, Andrewes, *Faun. Brit. Ind. incl. Burma and Ceylon*, *Carabidae* 2, Haraplini 1: 268.

Material examined: India: Uttar Pradesh: 1 ex. Auraiya, Fatehpur near Muradganj, 20.x.2011, BL, Ex. leaf litter (Reg. No. 19641/H4A).

Distribution: India: Uttar Pradesh and common throughout India.

Elsewhere: Throughout South-East Asia except Japan.

Tachys politus var. *aspilotus* Andrewes

1925. *Tachys politus* var. *aspilotus* Andrewes, *Ann. Mus. Civ. Gen.* **51**: 449.

1935. *Tachys politus* var. *aspilotus*, Andrewes, *Faun. Brit. Ind. incl. Burma and Ceylon*, *Carabidae* **2**, Haraplini **1**: 271.

Material examined: India: Uttar Pradesh: 1 ex. Auraiya, Fatehpur near Muradganj, 20.x.2011, BL, Ex. leaf litter (Reg. No. 19650/H4A).

Distribution: India: Uttar Pradesh and common throughout India.

Elsewhere: Throughout South-East Asia except Japan.

Discussion

The paper contains total 19 species belonging to tribe Bembidiini out of which 07 species belonging to the genera Bembidion Latreille and 12 species belonging to genera Tachys Stephens. Three species of Bembidion Latreille and three species of Tachys Stephens are New Record to the State of Uttar Pradesh whereas the species *Tachys opalescens* Andrewes is recorded for the first time from India.

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