

**NEW RECORDS OF HEMIPTERA (INSECTA)
FROM TAWANG DISTRICT, ARUNACHAL PRADESH INDIA**

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[Chandra, K. & Kushwaha, S. 2014. New records of Hemiptera (Insecta) from Tawang District, Arunachal Pradesh India. Munis Entomology & Zoology, 9 (1): 525-529]

ABSTRACT: Tawang district is located in western part of Arunachal Pradesh, bordering Bhutan and China covering approximately 2085 sq. km. area, having the forest covers of 1230 sq. km. The district is divided into 3 subdivisions viz. Tawang, Lumla and Jang. While working on faunal diversity of the district by the first author, the specimens of true bugs were also collected. The identification yielded the record of 17 species of order Hemiptera belonging to 15 genera representing 9 families. All these species are new addition to the fauna of Tawang district, Arunachal Pradesh.

KEY WORDS: Faunal diversity, new addition and true bugs.

The name Tawang derives from some bearings on surroundings. district is roughly located around latitude 27° 45' N and longitude 90° 15' E. The district is divided into 3 subdivisions Tawang, Lumla and Jang. Tawang subdivision is divided into 2 administrative circles Tawang and Kitpi. Lumla subdivision is divided into 4 administrative circles: Bongkhar, Dudunghar, Lumla and Zemithang. Jang subdivision is divided into 4 administrative circles Jang, Mukto, Thingbu and Lhou.

Hemiptera is a large diverse group of insects. Earlier authorities recognize the two orders of these insects, the Hemiptera or true bugs and the Homoptera including cicadas, hoppers, aphids and their allies. Earlier classification had the Homoptera divided into two suborders, the Auchenorrhyncha, containing the cicads and hoppers and the Sternorrhyncha, including the psyllids, whiteflies, aphids and scale insects. There are 133 families of Hemiptera found worldwide, consisting about 184000-193000 species (Hodkinson & Casson, 1991). Present study describes 15 genera of order Hemiptera representing 17 species belonging to 9 families of suborder Heteroptera and Auchenorrhyncha. Earlier work on Hemipteran insects In Arunachal Pradesh was done by Singh et al. (2010).

MATERIALS AND METHODS

Bugs were collected by local surveys undertaken by the scientific team of Dr. Kailash Chandra Zoological Survey of India, Jabalpur from various localities of Tawang District of Arunachal Pradesh state India in month of October and November in the year 2009. Examples of bugs were collected by using the light trap, net-sweep and hand picking methods various local spots. Collected bugs were sorted out, pinned and identified with the help of reference collection and literature present in ZSI (Jabalpur Centre and HQs Kolkata) and Fauna of British India (Distant 1902, 1904 and 1916). Microscopy and photography was done by Leica M205-A Stereo zoom microscope (Plate 1 and 2).

RESULTS AND DISCUSSION

Present investigation reports altogether 17 species pertaining to 9 families of order Hemiptera, 3 species belonging to suborder Auchenorrhyncha and 14 species from suborder Heteropteroidea from Tawang District of Arunachal Pradesh India. More investigation is needed to draw the faunistic profile of order Hemiptera of Arunachal Pradesh India. All the 17 species are new record to Tawang District of Arunachal Pradesh India.

ACKNOWLEDGEMENTS

Authors are grateful to Dr. K. Venkataraman, Director, Zoological Survey of India for his kind support, encouragement and institutional facilities. Thanks are also due to Officer-in-Charge of Hemiptera section, ZSI, Kolkata for the support in identification of specimens.

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Table 1. Showing the distribution of New records of Hemiptera fauna from Tawang district.

S. No.	Suborder/Infraorder/Superfamily /Family/Species	No. of Exp.	Locality (Local Area)	Date of Collection
	Order: Hemiptera			
	Suborder: Auchenorrhyncha			
	Infraorder: Cicadomorpha			
	Superfamily: Cicadelloidea			
	Family: Cicadellidae			
1	<i>Atkinsoniella mungphuensis</i> (Distant)	1	Lumla	04. X. 2009
2	<i>Bothrogonia ferruginea</i> Fabricius			
	Infraorder: Fulgoromorpha			
	Superfamily: Fulgoroidea			
	Family: Dictyophoridae			
3	<i>Oliarus indicus</i> Distant	1	Zimmithang	30. IX. 2009
	Suborder: Heteropteroidea			
	Infraorder: Cimicomorpha			

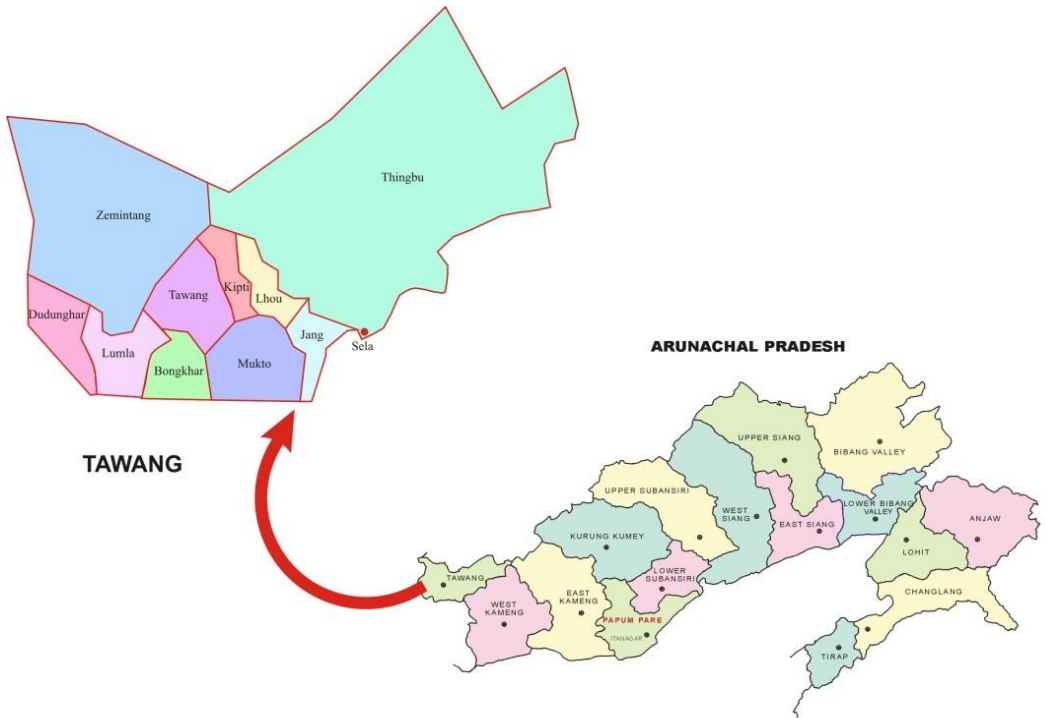
	Superfamily: Cimicoidea			
	Family: Reduviidae			
4	<i>Coranus fuscipennis</i> Reuter	1	BTK, Zimmithang	11.X.2009
	Family: Nabidae			
5	<i>Dodonaeus humeralis</i> Distant	1	Lumla CH	02.X.2009
	Infraorder: Pentatomorpha			
	Superfamily: Pyrrhocoroidea			
	Family: Phyllorhoridae			
6	<i>Physopelta gutta</i> (Burmeister)	1 2	Lumla Zimmithang	02. X. 2009 30. IX. 2009
	Superfamily: Coreoidea			
	Family: Alydidae			
7	<i>Riptortus pedestris</i> (Fabricius)	1	Lumla	02. X. 2009
8	<i>Riptortus fuscus</i> (Fabricius)	1 1	Lumla Zimmithang	02. X. 2009 10. X. 2009
	Family: Coreidae			
9	<i>Cletus punctulatus</i> (Westwood)	3	BTK, Zimmithang	11.X.2009
	Superfamily: Pentatomoidea			
	Family: Pentatomidae			
10	<i>Apodiphus pilipes</i> , Horváth	1	Sela	05. X. 2009
11	<i>Nezara viridula</i> , (Linnaeus)	1	Thrillum	03. X. 2009
12	<i>Urostylis gracilis</i> , Dallas	2	Zimmithang	11.X.2009
13	<i>Urochela bimaculata</i> Dallas	1	Thrillum	03. X. 2009
14	<i>Urochela guttulata</i> , Stål	3	Zimmithang CH	30.IX.209
15	<i>Tropicoris punctipes</i> Stål	1	Lumla	01.X.2009
16	<i>Prionaca lata</i> Dallas	1	Lumla	01.X.2009
	Family: Plataspidae			
17	<i>Captosoma contectum</i> Montand	6	Lumla	01. X. 2009

Plate 1

*Atkinsoniella mungphuensis* (Distant)*Bothrogonia ferruginea* Fabricius*Oliarus indicus* Distant*Physopelta gutta* (Burmeister)*Riptortus pedestris* (Fabricius)*Apodiphus pilipes*, Horváth

Plate 2

*Captopsoma coniectum* Montand*Urochela bimaculata* Dallas*Nezara viridula*, (Linnaeus)*Cletus punctulatus* (Westwood)



District Map of Tawang District of Arunachal Pradesh state, India covered for this study.