## ON A COLLECTION OF TRUE BUGS (INSECTA: HEMIPTERA) FROM RALAMANDAL WILDLIFE SANCTUARY, MADHYA PRADESH, INDIA

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ABSTRACT: Present investigation deals with the Hemiptera fauna of the Ralamandal Wildlife sanctuary Madhya Pradesh, after a deep observation of the surveyed area of the WLS there were 34 species belonging to 30 genera under 12 families reported. All the species are new to RWLS.

KEY WORDS: Hemiptera, RWLS, Madhya Pradesh.

The state of Madhya Pradesh was created in 1956, total covering about 14.5% of the total area of India. The elevation is largely 305 to 610 m. As per records total forest area is 308,245 km² annual rainfall is 1800 mm and temperature is 22.5°- 25°C. Ralamandal WLS situated 15 km from Indore-Tillore road and covers 234.55 ha, notified as WLS of Madhya Pradesh in the year 1982 (Diwedi, 2003). Order Hemiptera is the one of the largest group with more than 35000 species of bugs from all over the world, Suborder Heteroptera being the largest group with more than 35000 species (Slater, 1982).

Detailed account on Hemiptera of central India was describe in the 'Fauna of British India' Distant (1902, 1904 and 1906). Later on investigation on Order Hemiptera of Madhya Pradesh were done by Chandra (2008, 2009), Chandra et al. (2010, 2012) and Chandra, Kushwaha (2013, 2014a,b) and (Chandra et al. 2014).

These bugs were collected by sweeping over vegetation with a net. Some specimens found under stones, leaf axils and loose bark were collected by picking with forceps or small ones with a hairbrush dipped in spirit. Night collection was also carried out with using white cloth sheet and mercury bulb. The identification of specimens up to species level was done using reference collection present in ZSI, Jabalpur.

This observational survey deals with the study of 34 species belonging to 30 genera under 12 families of order Hemiptera reported first time from Ralamandal Wildlife Sanctuary.

**Abbreviation used:** VH-Very high; H-High; L-Low; R-Rare; VR-Very Rare; FRH-Forest Rest House; RWLS- Ralamandal Wildlife Sanctuary.

Table 1. List of Hemiptera studied from Ralamandal Wildlife Sanctuary, Madhya Pradesh.

No.   Locality   Observation		Scientific Name	WLS/NP/	Status	Date of
Suborder: Heteropterodea Infraorder: Cimicomorpha Superfamily: Cimicoidea  1 Tribelocephala indica (Walker) 2 Ectomocoris cordiger Stal 3 Catamicrus breupennis (Serv.) 4 Prostemma carduelis Dohrn 5 Ectrychotes dispar Reuter 6 Oncocephalus amulipes Stal 7 Prostemma carduelis Dohrn 8 RWLS/FRH 1 L 22.vi.20 7 Prostemma carduelis Dohrn 8 RWLS/FRH 1 L 22.vi.20 7 Prostemma carduelis Dohrn 8 RWLS/FRH 1 L 22.vi.20 7 Prostemma carduelis Dohrn 8 RWLS/FRH 1 L 22.vi.20 7 Prostemma carduelis Dohrn 8 RWLS/FRH 1 L 22.vi.20 8 Polididus amulipes Reuter 9 Scadra amulipes Reuter 9 Scadra amulipes Reuter 9 Scadra amulipes Reuter 9 Scadra amulipes Reuter 9 Scudra amulipes Reuter 9 Village boundary 10 Rhymocoris marginatus (F.) 11 Rhymocoris marginatus (F.) 12 RWLS/FRH 1 L 22.vi.20 13 Family: Lygacoidea 14 Spilostethus pandurus militaris (F.) 15 Spilostethus pandurus militaris (F.) 16 RWLS/FRH 17 Spilostethus pandurus militaris (F.) 18 RWLS/Near Water tank 19 Superfamily: Pyrrhocoridea 19 Antilochus coqueberti, (F.) 10 Near Museum wall 11 Myliostethus pandurus militaris (F.) 12 Spilostethus hospes (F.) 13 Antilochus coqueberti, (F.) 14 Dysderus koenigui (F.) 15 Serinetha abdominalis (F.) 16 Anoplocnemis phasiana (F.) 17 Homocerus signatus Walker 18 Notobitus meleagris (F.) 18 RWLS/Rear Water tank 19 Riptortus fuscus (F.) 19 RWLS/FRH 10 RWLS/FRH 10 RWLS/FRH 11 22.vi.20 12 Leptocorisa varicornis (F.) 19 RWLS/FRH 10 RWLS/FRH 11 22.vi.20 11 Antestiopsis cruciata (F.) 12 RWLS/FRH 14 22.vi.20 15 Superfamily: Pentatomoidea 16 Family: Pentatomoidea 17 Homocerus signatus Walker 18 Near Museum wall 19 Riptortus fuscus (F.) 20 Leptocorisa varicornis (F.) 21 RwLS/FRH 22 Vilage boundary 22 Activationidae 23 Antestiopsis cruciata (F.) 24 Euseroceris ventralis (Westwood) 25 Euseroceris ventralis (Westwood) 26 Eocanthecona furcellata (Wolff) 27 Halby dentatus Fabricius 28 Neara wiridula Linnaeus 29 Plautia fimbriata Fabricius 20 RWLS/FRH 21 Vilage boundary 22 Plautia fimbriata Fabricius 23 Plautia fimbriata Fabricius 24 Plautia fimbriata Fabricius 2					Observation
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Family: Reduviidae					
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## LITERATURE CITED

Chandra, K. 2008. Insecta: Hemiptera, Faunal Diversity of Jabalpur District, M. P Conservation Area Series, (Published by Zoological Survey of India, Kolkata): 1-157 pp.

Chandra, K. 2009. Insecta: Hemiptera. Fauna of Pachmarhi Biosphere Reserve, Conservation Area Series, (Published by Zoological Survey of India, Kolkata): 1-257 pp.

Chandra, K. & Kushwaha, S. 2013. Distribution and Diversity of Hemiptera Fauna of Singhori Wildlife Sanctuary, Raisen District, Madhya Pradesh, India. Munis Entomology & Zoology, 8 (2): 677-681.

Chandra, K. & Kushwaha, S. 2014a. Ground bugs (Hemiptera: Lygaeidae) of Madhya Pradesh, with their distribution in India. Munis Entomology & Zoology, 9 (1): 535-539.

Chandra, K. & Kushwaha, S. 2014b. Superfamily Coreoidea (Hemiptera) from Madhya Pradesh. Bionotes, 16 (1): 9-11.

Chandra. K., Kushwaha, S., Sambath, S. & Biswas, B. 2012. Distribution and diversity of Hemiptera fauna of Veerangana Durgavati Wildlife Sanctuary, Damoh, Madhya Pradesh (India). Biological Forum-An International Journal, 4 (1): 68-74.

Chandra, K., Sharma, R. M. & Ojha, P. 2010. A Compendium on the faunal resources of Narmada river basin in Madhya Pradesh. Rec. 200l. Surv. India, Occ. Paper No. 310: 42-43.

Distant, W. L. 1902. The fauna of British India including Ceylon and Burma, RhynchotaVol. II, Taylor and Francis, London: 1-503 pp.

Distant, W. L. 1904. The fauna of British India including Ceylon and Burma, Rhynchota Vol. I, Taylor and Francis, London: 1-438 pp.

Distant, W. L. 1906. The fauna of British India including Ceylon and Burma, Rhynchota Vol. III, Taylor and Francis, London: 1-502 pp.

Diwedi, A. P. 2003. Protected area of Madhya Pradesh, Published by PCCF Bhopal: 1-218 pp.

Slater, J. A. 1982. Hemiptera. In: Parker, Sp. P. (Ed.), synopsis and classification of living organisms. McGraw-Hill, New York. pp. 417-447.