

ON A COLLECTION OF COLLEMBOLA FROM AMAGHATA FOREST, DHANBAD, JHARKHAND

G.P. MANDAL, K.K. SUMAN and
K.K. BHATTACHARYA

*Apterygota Section, Zoological Survey of India,
New Alipore, Kolkata.*

E-mail: *gpmandal.zsi@gmail.com*

The present communication is based on a survey conducted by Apterygota section, Zoological Survey of India, Kolkata in September-October, 2013, from Amaghata forest, Dhanbad district, Jharkhand. The Amaghata forest is situated near the Amaghata village of Gobindpur Tehsil of Dhanbad district, at a distance of approx. 9 kms from Dhanbad City. Its altitude is 216 m and lat./long. is 23.821949°N and 86.502181°E. The total geographical area of village Amaghata is 358.07 hectares.

The collembolans are small, wingless, entognathous hexapods with a spring-like forked jumping organ and the furcula situated below the fourth abdominal segment. They are minute in size, range from 0.25 mm to 6 mm in length and

with 4 segmented antennae. A total of 10 species under 9 genera belonging to 6 families of Collembolan insects have been recorded in this study. All the collections were made by G.P.Mandal. Identification of specimens was done using a phase contrast compound microscope, following Christiansen & Bellinger (1998).

Collembola were extracted from soil samples by employing stainless steel corers. Cores were then placed on modified high gradient extraction apparatus. Specimens were mounted under a coverslip in Hoyer's solution, and were studied under a Leica Digital Module (DM 2500) microscope. All specimens are deposited in the Apterygota Section, Zoological Survey of India, Kolkata.

Collected species are shown in Table 1.

Acknowledgements: The authors are grateful to Dr. Kailash Chandra, Director, Zoological Survey of India, for giving opportunity to study the materials. Thanks are also due to Dr. C. Raghunathan, Scientist-E for encouragement, and to staff of Apterygota section for co-operation.

References

Christiansen, K.A. & Bellinger, P. 1998. *The Collembola of North America North of the Rio Grande. A taxonomic analysis*. Grinnell College, Iowa: 1-1520.

Table 1. List of species of Collembola from Amaghata Forest, Dhanbad, Jharkhand.

Family	Species	Distribution in India
Isotomidae	1. <i>Isotomurus jharkhandensis</i> Mandal, Suman & Bhattacharya, 2017	Jharkhand
	2. <i>Isotomurus dhanbadensis</i> Mandal, Suman & Bhattacharya, 2017	Jharkhand
Entomobryidae	3. <i>Alloscopus tetracanthus</i> Börner, 1906	Jharkhand, Meghalaya, West Bengal
	4. <i>Lepidocyrtus (Acrocyrtus) heterolepis</i> Yosii, 1959	Jharkhand, Kerala, Himachal Pradesh, Manipur, Arunachal Pradesh, Andhra Pradesh, Uttarakhand, Andaman & Nicobar Is., West Bengal
Paronellidae	5. <i>Yosiia dehradunia</i> Mitra, 1967	Jharkhand, Himachal Pradesh, Kerala, Odisha, Tripura, Uttarakhand, West Bengal
	6. <i>Dicranocentroides flavescens</i> Yosii, 1966	Jharkhand, Andaman & Nicobar Is., Kerala, Himachal Pradesh, Manipur, Nagaland, Arunachal Pradesh, Sikkim, Tripura, Uttarakhand, Uttar Pradesh, Odisha, West Bengal
	7. <i>Salina indica</i> (Imms, 1912)	Jharkhand, Andaman & Nicobar Is., Arunachal Pradesh, Himachal Pradesh, Maharashtra, Manipur, Sikkim, Tripura, Uttarakhand, Uttar Pradesh, West Bengal
Sminthuridae	8. <i>Sphyrotheca gangetica</i> Yosii, 1966	Jharkhand, Himachal Pradesh, Uttar Pradesh, West Bengal
Dicyrtomidae Sminthurididae	9. <i>Calvatomina pagoda</i> Yosii, 1966	Jharkhand, West Bengal
	10. <i>Sminthurides parvulus</i> (Krausbauer, 1898)	Jharkhand, Himachal Pradesh, Uttar Pradesh