



## Annotated checklist of Indian Ceutorhynchinae (Coleoptera: Curculionidae)

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**ABSTRACT:** A checklist to all the known 13 genera and 45 species of the subfamily Ceutorhynchinae from India is given. Taxonomic history with details of synonyms, references and distribution are also included. The zoogeographic distribution has been analyzed and details included. ©2014 Association for Advancement of Entomology

**Key words:** Ceutorhynchinae, India, checklist, distribution

### INTRODUCTION

The subfamily Ceutorhynchinae was erected by Gistel (1856) as new placement from Barididae (Alonso-Zarazaga and Lyal, 1999). This subfamily contains ca.1316 species, and one of the most speciose in the family Curculionidae (Colonnelli, 2004) and itself one of the largest family of Order Coleoptera (Alonso-Zarazaga and Lyal, 1999). Ceutorhynchines are distributed worldwide except New Zealand, Oceania, Antarctic and Subantarctic regions and Soth America, south of middle Argentina; no species known from Chile; the greatest numbers of genera and species are known from the Palaearctic, followed by Oriental region (Korotyaev, 2006).

Ceutorhynchinae are easily recognized by their robust complexion and ability to place the rostrum between the coxae in repose. One of the main external structural characters are the dorsally visible apices of the mesepimera (except for the Palaeotropical genus *Cyphosenus* Schultze, 1899 and Oriental *Ceutorhynchoides* Colonnelli, 1979). More than one third of the existing Ceutorhynchinae are monophagous or oligophagous on Brassicaceae species (Korotyaev, 2006). Several *Ceutorhynchus* are among the most important pests on cruciferous crops as their larvae and adults damage plants. Larvae of members of this genus tunnel into stems (*Ceutorhynchus napi* Gyllenhal 1837, *Ceutorhynchus pallidactylus* (Marsham 1802)

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and leaf stalks (*Ceutorhynchus picitarsis* Gyllenhal 1837), feed on seeds within pods of the host plants (*Ceutorhynchus obstrictus* (Marsham 1802)) or cause root-gall formation (*Ceutorhynchus assimilis* (Paykull 1800)). *Ceutorhynchus* adults gnaw leaves, stems, buds and flowers of the cruciferous plants (Korotyaev, 2006). Some *Ceutorhynchinae* species feed on weeds and therefore are used or considered as biological control agents against weeds (Peschken and Wilkinson, 1981; Burki *et al.*, 2001; Colpetzer *et al.*, 2004; Korotyaev, 2006; Newman *et al.*, 2006; Gerber *et al.*, 2007; Visalakshy, 2007). There are some interesting biological and morphological peculiarities that occur in subgroups of *Ceutorhynchinae* and noteworthy is the ability to leap, expressed to a varying degree in several tribes of *Ceutorhynchinae*, which is not developed to a comparable extent in other Curculionidae except for *Rhamphini* (Curculioninae) and has been newly acquired within the *Ceutorhynchinae* (Korotyaev, 2006). Besides, there are aquatic *Ceutorhynchinae* with well developed swimming abilities and morphological adaptations compared to *Bagoinae*, the only other subfamily of the Curculionidae with specialized aquatic forms.

## MATERIAL AND METHODS

This list is mainly based on available literature rather than on extensive taxonomic studies. It has been compiled mainly with the aid of Zoological Record (Insecta), the “Catalogue of Ceutorhynchinae of the World, with a key to genera” (Colonnelli, 2004) and original descriptions, wherever available. The classification proposed by Schultze (1902); Wagner (1938a, 1938b) and Colonnelli (2004) was followed.

## RESULTS AND DISCUSSION

The results revealed that, the Ceutorhynchinae of India are represented by 45 species distributed in 13 genera under five tribes. A perusal of the checklist indicates that majority of the species are distributed in Northeast and north Indian peninsula. An analysis of described Indian fauna indicates that, from 1837 to 1900 only six species had been described (Table 1); 18 species were described from 1901 to 1950. The majority of species (21) were described during 1951 to 2000, and thereafter, no species were described from India. An analysis made on the contributions of coleopterists (Table 2) indicates that Pajni and Kohli had described 10 species followed by Colonnelli (1979, 1984, 1987, 1992, 1993, 1998); and Marshall with nine species each, Hustache with 6 species, Schultze with three species, Korotaev with two species, and Dalla Torre, Faust, Gyllenhal, Motschulsky with one species each. In conclusion, the present checklist is a comprehensive list of Ceutorhynchines distributed in India.

## **TRIBE, GENERA AND SPECIES**

## DISTRIBUTION

## A. Phytobinii Gistel, 1848

- I. *Rhinoncus* Schoenherr, 1825: c586  
Type species: *Curculio pericarpinus* Linnaeus, 1758
  - 1. *caesareus* Colonna, 1979b: 483

## North Indian peninsula: India, Nepal, Pakistan

2. *paganus* Gyllenhalin Schoenherr, 1837: 586  
*Rhinoncus luzonicus* Hustache, 1925: 333;  
Colonnelli, 2004: 32

Southeast Asia, South Africa:  
Bangladesh, Indonesia, India, Laos,  
Nepal, Philippines, Thailand, Vietnam,  
South Africa

**B. Ceutorhynchini Gistel, 1848**

II. *Ceutorhynchoides* Colonnelli, 1979a: 144  
Type species: *Ceutorhynchoides badius* Colonnelli, 1979b

3 *bengalensis* Colonnelli, 1984: 201 Bengal: India

4 *notatus* Colonnelli, 1984: 202 Bengal: India

5 *subcostulatus* (Hustache, 1920)  
*Ceuthorrhynchus subcostulatus* Hustache, 1920:  
332; Colonnelli, 2004: 36 South India: India

6 *topali* Colonnelli, 1984: 202 Assam: India

III. *Ceutorhynchus* Germar, 1824  
*Ceutorhynchus* Germar, 1824: 217

Type species: *Curculio assimilis* Paykull, 1792

7 *kashmirensis* Korotyaev, 1980: 144 Kashmir: India

IV. *Dieckmannius* Colonnelli, 1987: 139  
Type species: *Ceuthorrhynchus sexnotatus* Schultze, 1899

8 *ingens* Colonnelli, 1993: 388 Himalayas: Bhutan, India, Nepal

9 *sexnotatus* (Schultze, 1899)  
*Ceuthorrhynchus sexnotatus* Schultze,  
1899: 190; Colonnelli, 2004: 56 Himalayas: North India, Nepal  
*Ceuthorrhynchus camerunensis* Hustache,  
1930: 78; Colonnelli, 2004: 56

V. *Indicoplontus* Colonnelli, 1984: 205  
Type species: *Ceuthorrhynchus indicus* Hustache, 1930

10 *indicus* (Hustache, 1930)  
*Ceuthorrhynchus indicus* Hustache, 1930: 77;  
Colonnelli, 1984: 205 Himalayas: India, Nepal, Pakistan

VI. *Indozacladus* Colonnelli, 1984: 204  
Type species: [*Ceuthorrhynchus*] *theresiae* Dalla Torre, 1922

11 *theresiae* (Dalla Torre, 1922)  
*Ceuthorrhynchus theresiae* Dalla Torre, 1922:  
125; Colonnelli, 1984: 204  
*Ceuthorrhynchus asperulus* Faust, 1898: 323 not  
*Ceuthorrhynchus asperulus* Boheman, 1845;  
Colonnelli, 2004: 66  
*Indozacladus cajani* Colonnelli, 1998: 140;  
Colonnelli, 2004: 66 South India: India

**B. Mecysmoderini Wagner, 1938a**

- VII. *Mecysmoderes* Schoenherr, 1837: 596  
Type species: *Mecysmoderes euglyptus* Gyllenhal, 1837
- |    |  |                  |
|----|--|------------------|
| 12 | <i>aurosquamulosus</i> Korotyaev, 1989: 145        | Karnataka: India |
| 13 | <i>carinatus</i> Faust, 1898: 324                  | Karnataka: India |
| 14 | <i>crassirostris</i> Hustache, 1924: 59            | Sikkim: India    |
| 15 | <i>notobrevicarinatus</i> Pajni & Kohli, 1982: 351 | Northeast India  |
| 16 | <i>notoexcavatus</i> Pajni & Kohli, 1982: 364      | Northeast India  |
- VIII. *Belonnotus* Schultze, 1899: 187  
Type species: *Belonnotus tricarinatus* Schultze, 1899
- |    |   |                                    |
|----|---|------------------------------------|
| 17 | <i>lineolatus</i> (Hustache, 1920)<br><i>Mecysmoderes lineolatus</i> Hustache, 1920:<br>329; Colonnelli, 2004: 72                   | India                              |
| 18 | <i>longicallus</i> (Pajni & Kohli, 1982)<br><i>Mecysmoderes longicallus</i> Pajni & Kohli,<br>1982: 345; Colonnelli, 2004: 72       | Northeast India                    |
| 19 | <i>mussooriensis</i> (Pajni & Kohli, 1982)<br><i>Mecysmoderes mussooriensis</i> Pajni & Kohli,<br>1982: 349; Colonnelli, 2004: 72   | Himalayas: North India, Nepal      |
| 20 | <i>nigriclava</i> Colonnelli, 1992: 404   | Uttar Pradesh: India               |
| 21 | <i>ochraceus</i> (Motschulsky, 1858)<br><i>Coeliosomus ochraceus</i> Motschulsky, 1858: 70;<br>Colonnelli, 2004: 72                 | India                              |
| 22 | <i>ochrasuturalis</i> (Pajni & Kohli, 1982)<br><i>Mecysmoderes ochrasuturalis</i> Pajni & Kohli,<br>1982: 360; Colonnelli, 2004: 72 | Himachal Pradesh: India            |
| 23 | <i>pectinipes</i> (Marshall, 1917)<br><i>Mecysmoderes pectinipes</i> Marshall, 1917: 406;<br>Colonnelli, 2004: 72                   | Tamil Nadu: India                  |
| 24 | <i>riedeli</i> Colonnelli, 1992: 406  | Tamil Nadu: India                  |
| 25 | <i>tenuirostris</i> (Marshall, 1917)<br><i>Mecysmoderes tenuirostris</i> Marshall, 1917:<br>403; Colonnelli, 2004: 72               |                                    |
| 26 | <i>tricarinatus</i> Schultze, 1899: 187   | Tamil Nadu; Northeast India: India |
- IX. *Cysmemoderes* Colonnelli, 1992: 407  
Type species: *Mecysmoderes tuberculatus* Pajni & Kohli, 1982
- |    |   |  |
|----|---|--|
| 27 | <i>tuberculatus</i> (Pajni & Kohli, 1982) |  |
|----|---|--|

- |     |   |  |
|-----|---|--|
|     | <i>Mecysmoderes tuberculatus</i> Pajni & Kohli,<br>1982: 342; Colonnelli, 2004: 72  | Manipur: India                         |
| 28  | <i>verrucosus</i> (Marshall, 1917)<br><i>Mecysmoderes verrucosus</i> Marshall, 1917:<br>397; Colonnelli, 2004: 72   | Assam: India                           |
| X.  | <i>Coeliosomus</i> Motschulsky, 1858: 70<br>Type species: <i>Coeliosomus nigrorufus</i> Motschulsky, 1858   |  |
| 29  | <i>brancuccii</i> Colonnelli, 1992: 400   | Northeast India: India                 |
| 30  | <i>colonnelli</i> (Pajni & Kohli, 1982)<br><i>Mecysmoderes colonnelli</i> Pajni & Kohli, 1982:<br>367; Colonnelli, 2004: 72   | Northeast India: India                 |
| 31  | <i>memecylonis</i> (Marshall, 1917)<br><i>Mecysmoderes memecylonis</i> Marshall, 1917:<br>395; Colonnelli, 2004: 72   | India, Bangladesh                      |
| 32  | <i>metasternalis</i> (Marshall, 1917)<br><i>Mecysmoderes metasternalis</i> Marshall, 1917:<br>398; Colonnelli, 2004: 72   | Himalayas: Northeast India,<br>Myanmar |
| 33  | <i>minutus</i> (Hustache, 1924)<br><i>Mecysmoderes minutus</i> Hustache, 1924: 61;<br>Colonnelli, 2004: 72  | Sikkim: India                          |
| 34  | <i>neominutus</i> (Pajni & Kohli, 1982)<br><i>Mecysmoderes neominutus</i> Pajni & Kohli,<br>1982: 366; Colonnelli, 2004: 72   | Northeast India                        |
| 35  | <i>nigrus</i> (Pajni & Kohli, 1982)<br><i>Mecysmoderes nigrus</i> Pajni & Kohli,<br>1982:352; Colonnelli, 2004: 72<br><i>Mecysmoderes darjeelingensis</i> Pajni & Kohli,<br>1982: 354; Colonnelli, 2004: 72 | Himalayas: North India, Nepal          |
| 36  | <i>subhumeralis</i> (Marshall, 1917)<br><i>Mecysmoderes subhumeralis</i> Marshall, 1917:<br>400; Colonnelli, 2004: 73   | Assam: India                           |
| 37  | <i>suturalis</i> (Hustache, 1924)<br><i>Mecysmoderes suturalis</i> Hustache, 1924: 60;<br>Colonnelli, 2004: 73  | North India                            |
| XI. | <i>Xenysmoderes</i> Colonnelli, 1992: 412<br>Type species: <i>Mecysmoderes longirostris</i> Hustache, 1920  |  |
| 38  | <i>alternatus</i> (Pajni & Kohli, 1982)<br><i>Mecysmoderes alternatus</i> Pajni & Kohli, 1982:<br>358; Colonnelli, 2004: 73   | Northeast India                        |

- 39 *armirufus* (Marshall, 1948)  
*Mecysmoderes armirufus* Marshall, 1948: 455;  
 Colonnelli, 2004: 73 Himalayas: Northeast India,  
 Myanmar
- 40 *brevicornis* (Hustache, 1924)  
*Mecysmoderes brevicornis* Hustache, 1924: 58;  
 Colonnelli, 2004: 73  
*Mecysmoderes albocapillus* Pajni & Kohli,  
 1982: 359; Colonnelli, 2004: 73 Himalayas: North India, Nepal
- 41 *comes* Colonnelli, 1992  
*Xenysmoderes comes* Colonnelli, 1992: 413 Himalayas: North India, Nepal
- 42 *humeralis* (Hustache, 1924)  
*Mecysmoderes humeralis* Hustache, 1924: 57;  
 Colonnelli, 2004: 73 Himalayas: Northeast India, Nepal,  
 Bhutan
- 43 *stylicornis* (Marshall, 1934)  
*Mecysmoderes stylicornis* Marshall, 1934: 51;  
 Colonnelli, 2004: 73 Himalayas: North India, Myanmar,  
 Australia
- C. Egriimi Pajini & Kohli, 1982**  
*Cyphosenus* subg. *Cyphosenus* Schultze, 1899: 188  
 Type species: *Cyphosenus paradoxus* Schultze, 1899
- 44 *paradoxus* Schultze, 1899  
*Cyphosenus paradoxus* Schultze, 1899: 188 North India
- D. Hypurini Schultze, 1902**  
*Hypurus* Rey, 1882: 189  
 Type species: *Ceutorhynchus bertrandi* Perris, 1852
- 45 *portulacae* (Marshall, 1916)  
*Ceuthorrhynchus portulacae* Marshall,  
 1916: 368; Colonnelli, 2004: 80 India, Pakistan

**Table 1. Number of species described during different periods**

Serial Number	Period		Number of species described
	From	To	
1	1837	1900	6
2	1901	1950	18
3	1951	2000	21

**Table 2. Contribution of coleopterists to Indian Ceutorhynchinae**

Serial Number	Contributing coleopterists	Number of species described
1	Colonnelli	9
2	Dalla Torre	1
3	Faust	1
4	Gyllenhal	1
5	Hustache	8
6	Korotyaev	2
7	Marshall	9
8	Motschulsky	1
9	Pajni & Kohli	10
10	Schultze	3

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