First report of *Dicranocentroides indica* (Handschin, 1929) (Collembola: Paronellidae) from Odisha, India

Ashirwad Tripathy

26 December 2019 | Vol. 11 | No. 15 | Pages: 15072–15073
DOI: 10.11609/jott.5329.11.15.15072-15073
The Collembola are small, entognathous, wingless hexapods which possess a spring like jumping organ under the fourth abdominal segment known as furcule due to which they are called springtails. The presence of antennae and cerci distinguishes it from other entognathous hexapods—Protura (with antennae and cerci absent) and the Diplura (with antennae and cerci or pincers present).

There are 9,037 described species of Collembola present worldwide (Bellinger et al. 2019). In India the collembofan fauna constitutes about 342 species of 113 genera belonging to 20 families in which the family Paronellidae consists of 69 species of 15 genera (Mandal 2018). The member of the subfamily Paronellinae Borner distinguished from other entomobryids by straight unringed denticles lacking spines but with terminal bladder like projection with a short and blunt mucro which is quite different from other entomobryids (Mandal & Suman 2016). In the subfamily Paronellinae the genus *Dicranocentroides* consists of five species in India (Hazra & Mandal 2015) and 21 species in the world (Bellinger et al. 2019).

The earlier distribution of the species *Dicranocentroides indica* Handschin in India was from Assam, Meghalaya, Manipur, Mizoram, Nagaland, Arunachal Pradesh, Sikkim, Uttar Pradesh, Andhra Pradesh, Chattisgarh (Mandal 2018). Here, the first report details and description of *Dicranocentroides indica* was made from Sundargarh, Odisha (Figure 1).

**Systematic Accounts** (As per Mandal & Suman 2016)

Family: Paronellidae Borner, 1913
Subfamily: Paronellinae Borner, 1913
Genus: *Dicranocentroides* Imms, 1912
Species: *Dicranocentroides indica* Handschin, 1929


Diagnositic Characters: Colouration: Whole body golden brown in colour with faint purple blue pigment. The antennal segment I, II and III with a distinct distal bluish ring and IV mostly with bluish pigment. Legs with dark brown pigment; furca with diffused blue pigment.
Clothing: Body covered with scales, cervix and anterior margin of II thoracic segment is covered with a collar of acuminate setae; macrachaetae obliquely truncated on II, III thoracic segment and I, II and III abdominal segments. At the posteriomedial part the segment IV, V and VI contains acuminate setae. Head: Two dark ocellar field, each having eight ocelli in two longitudinal parallel rows. Antennal segment I and II were stouter; segment IV superficially annulated, apical sense knobs not distinct.
Thorax: Relative length index of segments II:III :: 12:9, legs similar; unguis with paired basal and median unpaired
teeth, unguiculus lanceolate in shape; tenant hair long narrow and clavate. Abdomen: long ventral tube with protrusible vesicle retracted. Manubrium: Mucrodens 22:35, short mucro quadrangular with six striated teeth (Figure 2).

Remarks: Handschin (1929) first described this species in *Aphysa* genus from Europe. In course of revision of Indian collembola fauna, Mitra (1975) transferred the generic status to *Dicranocentroides* on the basis of the character of the genus present in the insect.

References


December 2019 | Vol. 11 | No. 15 | Pages: 14927–15090
Date of Publication: 26 December 2019 (Online & Print)
DOI: 10.11609/jott.2019.11.15.14927-15090

**Peer Commentary**

**Observations on the ex situ management of the Sumatran Rhinoceros Dicerorhinus sumatrensis** (Mammalia: Perissodactyla: Rhinocerotidae): present status and desiderata for conservation
– Francesco Nardelli, Pp. 14927–14941

**Communications**


**A review on status of mammals in Meghalaya, India**
– Adrian Wansaindor Lyngdoh, Honnavalli Nagaraj Kumara, P.V. Karunakaran & Santhanakrishnan Babu, Pp. 14955–14970

**A comparative analysis of hair morphology of wild and domestic ungulate prey species of Leopard Panthera pardus fusca** (Mammalia: Carnivora: Felidae) from Goa, India

**Understanding people’s perception and attitudes towards mammalian fauna using qualitative data: a case study in Barail Wildlife Sanctuary, India**

**An assessment of bird communities across Ujjani and its five satellite wetlands in Solapur District of Maharashtra, India**

**Growth rate of captive Gharials Gavialis gangeticus** (Reptilia: Crocodylia: Gavialidae) in Chitwan National Park, Nepal: a comparative analysis of fruit-baiting and feeding

**Efficacy of oxyclozanide and levamisole treatment on the gastrointestinal parasites in captive Lions Panthera leo**

**First record in 129 years of the Tamil Treebrown Lethe drypetis todara** Moore, 1881 (Lepidoptera: Nymphalidae: Satyrinae) from Odisha, India by fruit-baiting
– Anirban Mahata, Sudheer Kumar Jena & Sharat Kumar Palita, Pp. 15047–15052

**A review of the leafhopper tribe Agalliini (Hemiptera: Cicadellidae: Megaphthalminae) with a revised key to the known Pakistani genera and species**

**The windowpane oyster family Placunidae Rafinesque, 1815 with additional description of Placuna quadrangula** (Philipsson, 1788) from India
– Rocktin Ramen Das, Vijay Kumar Deepak Samuel, Goutham Sambath, Pandian Krishnan, Purvaja Ramachandran & Ramesh Ramachandran, Pp. 15061–15067

**Recent records of the rare Mountain Tortoishell Aglais rizana** (Moore, 1872) (Lepidoptera: Nymphalidae) in the upper Garhwal, western Himalaya, India, after 100 years
– Arun Pratap Singh & Tribhuvan Singh, Pp. 15068–15071

**First report of Dicranocentroides indica** (Handschin, 1929) (Collembola: Paronellidae) from Odisha, India
– Ashirwad Tripathy, Pp. 15072–15073

**Additions to the knowledge of darkling beetles (Coleoptera: Tenebrionidae) from the Indo-Burma Biodiversity Hotspot, Meghalaya, India**
– Vishwanath Dattatray Hegde, Pp. 15074–15078

**Bhutan Asiabell Codonopsis bhutanica Ludlow (Asteraceae: campanulaceae): a new addition to the Indian flora**

**Gentiana urnula** Harry Sm. (Gentianaceae), a new record for the central Western Ghats of Karnataka, India
– Rocktin Ramen Das, Vijay Kumar Deepak Samuel, Goutham Sambath, Pandian Krishnan, Purvaja Ramachandran & Ramesh Ramachandran, Pp. 15061–15067

**Notes**

**Recent records of the rare Mountain Tortoishell Aglais rizana** (Moore, 1872) (Lepidoptera: Nymphalidae) in the upper Garhwal, western Himalaya, India, after 100 years
– Arun Pratap Singh & Tribhuvan Singh, Pp. 15068–15071

**First report of Dicranocentroides indica** (Handschin, 1929) (Collembola: Paronellidae) from Odisha, India
– Ashirwad Tripathy, Pp. 15072–15073

**Additions to the knowledge of darkling beetles (Coleoptera: Tenebrionidae) from the Indo-Burma Biodiversity Hotspot, Meghalaya, India**
– Vishwanath Dattatray Hegde, Pp. 15074–15078

**Bhutan Asiabell Codonopsis bhutanica Ludlow (Asteraceae: campanulaceae): a new addition to the Indian flora**

**Gentiana urnula** Harry Sm. (Gentianaceae), a new record for the flora of Arunachal Pradesh, India
– Khilendra Singh Kanwal, Umeshkumar Lalchand Tiwari, Lod Yama & Mahendra Singh Lodhi, Pp. 15083–15086

**Carex phacota**, Spreng. (Cyperaceae): a new record for the central Western Ghats of Karnataka, India

**Book review**

**Compendium of Traded Indian Medicinal Plants**
– Reviewed by A. Rajasekaran, Pp. 15089–15090