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continued on the back inside cover

Cover: *Euphaea pseudodispar* shot at Kalindi River, Thirunelli, Wayanad district, Kerala. © Muneer P.K.



## New distribution records of two species of metallic ground beetles of the genus *Chlaenius* (Coleoptera: Carabidae: Chlaeniini) from the Western Ghats, India

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*Chlaenius* Bonelli, 1810 is one of the largest and taxonomically most diverse genera of Carabidae. There are approximately 855 species and 62 subgenera of *Chlaenius* in the world (Lorenz 2005) and new species are continually being described (Anichtchenko 2018). The beetles belonging to this genus are popularly known as 'metallic ground beetles' because of their vivid metallic colour of most species (Hegde & Manthen 2017). They emit some chemical compounds (m-Cresol, 2,5-dimethylphenol, 3,5-dimethylphenol) as defensive secretions (Schildknecht et al. 1968a,b; Balestrazzi et al. 1985). The representatives of this genus are found in all zoogeographical regions of the world (Bousquet 2012).

While analysing the earlier collections of carabid beetles of the Western Regional Centre of Zoological Survey of India, we came across two unidentified specimens, which on examination turned out to be *Chlaenius* species—*Chlaenius (Chlaeniellus) cookei* Andrewes, 1933 and *Chlaenius (Pseudochlaeniellus) puncticollis* Dejean, 1826. Perusal of published works on the *Chlaenius* species of India (Andrewes 1930, 1933; Saha 1986, 1992, 1995; Saha et al. 1991; Anichtchenko & Kirschenhofer 2017; Chanu & Swaminathan 2017; Hegde

& Manthen 2017) revealed that these two species have not been reported from the Western Ghats region earlier, and hence our findings represent new distribution records. The specimens were set-pinned, labelled, and assigned registration numbers. Identification was based on the literature (Andrewes 1933; Jedlička 1964). The photographs were taken with Leica EZ4HD stereo zoom microscope.

### *Chlaenius (Chlaeniellus) cookei* Andrewes, 1933

*Chlaenius deserti* Jedlička, 1964.

Material examined: Ent-1/3595, 01.x.2016, 1 male, collected at light, near Gagangiri mountain, Kolhapur District, Maharashtra (16.5380 N & 73.8238 E), coll. V.D. Hegde & party.

Diagnostic characters: Head metallic green, with small scattered punctures; antennomeres 1–3 light brown, remaining antennomeres dark brown. Pronotum wider than long, rounded at sides, punctate pubescent, metallic green, with narrow lateral margins brown; basal margin longer than apical margin; apical angles rounded; basal angles obtuse. Elytra dark green, with a small, oblique, narrow pale spot on each side, reaching

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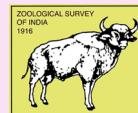
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**Image 1.** *Chlaenius (Chlaeniellus) cookei* Andrewes, 1933; Scale bar = 2 mm. © Vasanthakumar D.



**Image 2.** *Chlaenius (Pseudochlaeniellus) puncticollis* Dejean, 1826; Scale bar = 2 mm. © Vasanthakumar D.

apex as reported by Andrewes (1933) (Image 1).

**Distribution:** India (New Delhi, Rajasthan, and Western Ghats region of Maharashtra (new record)); Pakistan (Azadbaksh & Rafi 2017).

**Remarks:** This species was originally described by Andrewes (1933) from New Delhi. Jedlicka (1964) described *Chlaenius deserti* from Barmer, Rajasthan which was then synonymised as *C. (Chlaeniellus) cookei* by Kirschenhofer (2003).

#### ***Chlaenius (Pseudochlaeniellus) puncticollis* Dejean, 1826**

**Material examined:** Ent-1/3596, 13.vii.2017, 1 male, Near Tamhini, Pune District, Maharashtra (18.450 N & 73.416 E), coll. Shripad Manthen.

**Diagnostic characters:** Head metallic green, moderately punctate. Pronotum also metallic green, very coarsely punctate, densely at the base and less densely in anterior half of pronotum; lateral grooves narrow; basal angles right. Elytra metallic green, with narrow yellow lateral band, strictly limited to two external intervals; apical part of band narrow; elytral striae fine, finely punctured; all intervals flat (Image 2).

**Distribution:** India (Himachal Pradesh, Uttarakhand, West Bengal, and Western Ghats region of Maharashtra (new record)); Afghanistan, Pakistan, Iran, Nepal, Myanmar, and Sri Lanka (Anichtchenko & Kirschenhofer 2017).

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## Article

### Identification of confiscated pangolin for conservation purposes through molecular approach

– Wirdateti, R. Taufiq P. Nugraha, Yulianto & Gono Semiadi, Pp. 21127–21139

## Communications

### The trade of Saiga Antelope horn for traditional medicine in Thailand

– Lalita Gomez, Penthai Siriwat & Chris R. Shepherd, Pp. 21140–21148

### The occurrence of Indochinese Serow *Capricornis sumatraensis* in Virachey National Park, northeastern Cambodia

– Gregory McCann, Keith Pawlowski & Thon Soukhon, Pp. 21149–21154

### Attitudes and perceptions of people about the Capped Langur *Trachypithecus pileatus* (Mammalia: Primates: Cercopithecidae): a preliminary study in Barail Wildlife Sanctuary, India

– Rofik Ahmed Barbhuiya, Amir Sohail Choudhury, Nazimur Rahman Talukdar & Parthankar Choudhury, Pp. 21155–21160

### Feather characteristics of Common Myna *Acridotheres tristis* (Passeriformes: Sturnidae) from India

– Swapna Devi Ray, Goldin Quadros, Prateek Dey, Padmanabhan Pramod & Ram Pratap Singh, Pp. 21161–21169

### Population and distribution of Wattled Crane *Bugeranus carunculatus*, Gmelin, 1989 at lake Tana area, Ethiopia

– Shimelis Aynalem Zelelew & George William Archibald, Pp. 21170–21178

### Waterbird assemblage along Punatsangchhu River, Punakha and Wangdue Phodrang, Bhutan

– Nima & Ugyen Dorji, Pp. 21179–21189

### Freshwater fishes of the Chimmony Wildlife Sanctuary, Western Ghats, India

– P.S. Eldho & M.K. Sajeevan, Pp. 21190–21198

### Butterflies of Eravikulam National Park and its environs in the Western Ghats of Kerala, India

– Kalesh Sadasivan, Toms Augustine, Edayillam Kunhikrishnan & Baiju Kochunaranayanan, Pp. 21199–21212

### The dragonflies and damselflies (Insecta: Odonata) of Shendurney Wildlife Sanctuary, southern Western Ghats, India

– Kalesh Sadasivan, Vinayan P. Nair & K. Abraham Samuel, Pp. 21213–21226

### A pioneering study on the spider fauna (Arachnida: Araneae) of Sagar District, Madhya Pradesh, India

– Tanmaya Rani Sethy & Janak Ahi, Pp. 21227–21238

### Taxonomy and threat assessment of *Lagotis kunawurensis* Rupr (Plantaginaceae), an endemic medicinal plant species of the Himalaya, India

– Aliaz Hassan Ganie, Tariq Ahmad Butt, Anzar Ahmad Khuroo, Nazima Rasool, Rameez Ahmad, Syed Basharat & Zafar A. Reshi, Pp. 21239–21245

### The study of algal diversity from fresh water bodies of Chimmony Wildlife Sanctuary, Kerala, India

– Joel Jose & Jobi Xavier, Pp. 21246–21265

## Review

### A checklist of herpetofauna of Telangana state, India

– Chelmala Srinivasulu & Gandla Chethan Kumar, Pp. 21266–21281

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## Viewpoint

### Comments on "The Dragonflies and Damselflies (Odonata) of Kerala – Status and Distribution"

– A. Vivek Chandran & K. Muhammed Sherif, Pp. 21282–21284

## Short Communications

### Landings of IUCN Red Listed finfishes at Chetlat Island of Lakshadweep, southeastern Arabian Sea

– Davood Nihal, N.M. Naseem, N. Abhirami & M.P. Prabhakaran, Pp. 21285–21289

### First report of the termite *Glyptotermes ceylonicus* (Blattodea: Isoptera: Kalotermitidae) from India: an example of discontinuous distribution

– Edwin Joseph, Chinnu Ipe, Nisha P. Aravind, Sherin Antony & Jobin Mathew, Pp. 21290–21295

### Authentic report of the emesine bug *Gardena melinarthrum* Dohrn, 1860 (Hemiptera: Heteroptera: Reduviidae) from India

– Sangamesh R. Hiremath, Santana Saikia & Hemant V. Ghate, Pp. 21296–21301

### Reappearance of stomatopod *Gonodactylus platysoma* (Wood-Mason, 1895) after an era from the intertidal region of Chota Balu, South Andaman, India

– N. Muthu Mohammed Naha, Limaangnen Pongener & G. Padmavati, Pp. 21302–21306

### Range extension of earthworm *Drawida impertusa* Stephenson, 1920 (Clitellata: Moniligastridae) in Karnataka, India

– Vivek Hasyagar, S. Prasanth Narayanan & K.S. Sreepada, Pp. 21307–21310

### *Pelatantheria insectifera* (Rchb.f.) Ridl. (Orchidaceae): a new generic record for Eastern Ghats of Andhra Pradesh, India

– V. Ashok Kumar, P. Janaki Rao, J. Prakasa Rao, S.B. Padal & C. Sudhakar Reddy, Pp. 21311–21314

## Notes

### New breeding site record of Oriental White Ibis *Threskiornis melanocephalus* (Aves: Threskiornithidae) at Thirunavaya wetlands, Kerala, India

– Binu Chullakattil, Pp. 21315–21317

### Rediscovery of *Gardena melinarthrum* Dohrn from Sri Lanka

– Tharindu Ranasinghe & Hemant V. Ghate, Pp. 21318–21320

### A report on the occurrence of the cicada *Callogaeana festiva* (Fabricius, 1803) (Insecta: Cicadidae) from Mizoram, India

– Khawlhring Marova, Fanai Malsawmdawngiana, Lal Muansanga & Hmar Tlawmtse Lalremsanga, Pp. 21321–21323

### New distribution records of two species of metallic ground beetles of the genus *Chlaenius* (Coleoptera: Carabidae: Chlaeniini) from the Western Ghats, India

– Duraikannu Vasanthakumar & Erich Kirschenhofer, Pp. 21324–21326

### Report of *Euphaea pseudodispar* Sadasivan & Bhakare, 2021 (Insecta: Odonata) from Kerala, India

– P.K. Muneer, M. Madhavan & A. Vivek Chandran, Pp. 21327–21330

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