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Cover: *Pipistrellus tenuis* recorded during the small mammalian fauna study, Manipur, India. © Uttam Saikia.



First record of *Chlorophorus jucundus* (Perroud, 1855) (Coleoptera: Cerambycidae: Cerambycinae) from Maharashtra, India

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In the checklist prepared by Kariyanna et al. (2017), there are 1,536 species of Cerambycidae, enumerated under 440 genera, 72 tribes, and seven subfamilies from India. The genus *Chlorophorus* is distributed in Afghanistan, India, Sri Lanka, Nepal, Bhutan, Bangladesh, Myanmar, Thailand, Vietnam, Cambodia, Laos, Malaysia, Sunda Islands, Philippines, China, Hainan Island, Taiwan, Korea Japan, New Guinea, United States, and Brazil (Kariyanna et al. 2017). In India, *Chlorophorus* is represented by 28 species. Ghate (2012) enlisted 59 species of cerambycid beetles including two species of the genus *Chlorophorus*. The members of *Chlorophorus* were described first by Cheverolat in 1863 are round-necked longhorn beetles. The other genera of tribe Clytini taxonomically differ from the genus *Chlorophorus* due to the following characteristics—the antennae widely separate at the base (*Xylotrechus*), the first joint of hind tarsi is very little or no longer than second and third united (*Oligoenoplus*), antennae spined at apex of one or more of the joints from third to six (*Demonax*), and antennal third joint distinctly longer than first (*Rhaphuma*) (Gahan 1906). This species was described earlier as *Caloclytus jucundus* (see Gahan 1906).

While studying the cerambycid beetles of Kolhapur District, the authors came across a distinctly coloured

beetle identified as *Chlorophorus jucundus* (Perroud, 1855) using the description given by Gahan (1906). This species was first described as *Clytus jucundus* by Perroud in 1855 and then redescribed as *Caloclytus jucundus* by Gahan in 1906. In India, *Caloclytus jucundus* is reported from Tamil Nadu: Chennai; Karnataka: Shimoga, Mysore; and Pondicherry (Kariyanna et al. 2017). Except for a few colour photographs of the habitus of the present species, there are no photographs detailing its various characters nor a re-description. Through the present communication, we aim to provide additional colour photographs (dorsal / ventral and lateral views) showing the colouration of *C. jucundus* collected from Shivaji University, Kolhapur, along with a very brief re-description. This will be the first record of *Chlorophorus jucundus* for Maharashtra.

Material examined: SUKZ Ceramb-111, 09.viii.2013, 1 ex. (Image 1A,B,C), Shivaji University, Kolhapur, Maharashtra, India, 16.678 °N, 74.255 °E, 595 m, coll. S.M. Gaikwad, preserved as dry at Department of Zoology, Shivaji University Kolhapur. The photography was done using Canon 550D camera with a 100 mm lens at various focal lengths and then stacked in Photoshop CC software. The map showing distributional records of *C. jucundus* in India was prepared in DIVA-GIS software

Editor: Anonymity requested.

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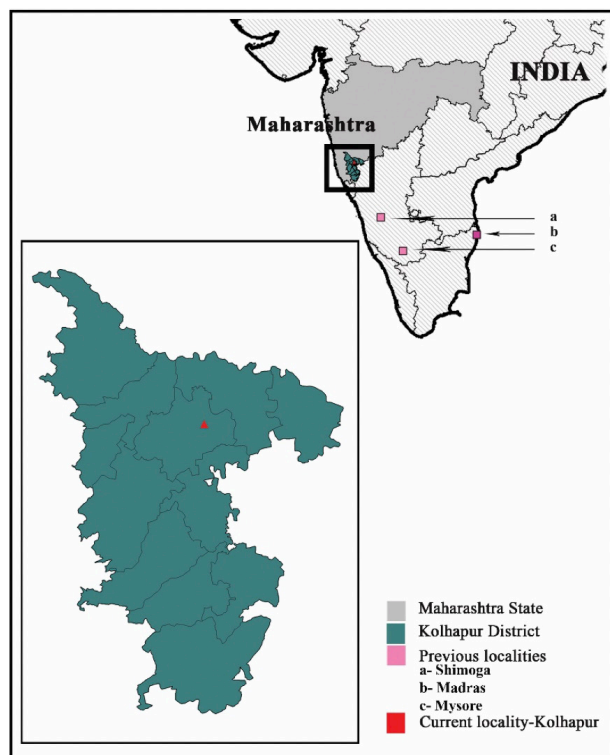


Figure 1. Map showing previous distributional localities and current locality (Kolhapur) of *Chlorophorus jucundus* (Perroud, 1855).

(Figure 1).

The collected specimen was studied under a Nikon stereo zoom (SMZ 800) microscope and identified as *C. jucundus* by using diagnostic characters and illustration given by Gahan (1906) and by comparing colour photographs available on the internet (https://www.cerambycoidea.com/forum/topic.asp?TOPIC_ID=18791 accessed on 20 April 2022).

Diagnostic characters: Body: The overall colouration was mentioned as 'yellow with black patterns' here: the body measured 12 mm in length (head to tip of elytra) and 3 mm in breadth (between humeral angles of elytra); the dorsum was densely covered with yellow pubescence with black markings (Image 1A). Ventrally, a broad longitudinal somewhat triangular black band was noted on the 1st to 4th ventrites, along with a large band on 5th ventrite with mixed pubescence of yellowish-grey colour (Image 1B). Head: small, sub-vertical with fine yellow pubescence; mandibles black and sharp at apex; eyes finely faceted with a large lower lobe, upper portion of lobe narrowed and curved towards the centre of the vertex; antennae (length 7.6 mm) eleven segmented, blackish with faint grey pubescence, antenniferous tubercles smooth, not widely separated at the base (Image 1D). Pronotum with three black spots,

two near the dorsolateral and one at the middle forming two lobes posteriorly (Image 1A). Each elytron with a bare elytral margin without pubescence (and hence it looks brown) to which a black transverse median band joins laterally (Image 1C); median transverse band (black colour) curved and broadened posteriorly and narrowed anteriorly near suture to form a triangular shape; three angulated spots present near the base and one prominent black subapical spot; of these three angulated spots, one is on humerus and remaining two spots join each other with narrow connection near suture (Image 1A). Legs with pale greyish pubescence, femora strong and swollen, mid femora finely carinate on each side, the hind femora feebly carinate distally. Hind tibia provided with two ventral spines at apex. First joint of hind tarsi little longer than remaining two joints united, claws, brown curved and sharp (Image 1A,B,C).

Beeson (1941) stated that *Chlorophorus jucundus* was found on *Acacia* spp., *Scutia indica* and another unidentified climber. The present study area, Shivaji University Kolhapur has an area of 832 acres and has a lot of different *Acacia* trees—*A. catechu*, *A. mangium*, *A. nilotica*, and *A. auriculiformis*. Therefore, the occurrence of *C. jucundus* on the campus of Shivaji University was always likely.

While examining the characters of the specimen, it was observed that our specimen bears a resemblance to the species *Caloclytus jucundus* described by Gahan (1906) a synonym of *Chlorophorus jucundus* (Perroud, 1855). The closest relative of *C. jucundus* is *Chlorophorus agnathus* (Cheverolat, 1863) which differs from each other due to spots on the body. *C. agnathus* has a cordate spot on the prothorax and two short vittae at base on each elytron, a transverse band in the middle and a spot on the apex. However, the spots on the thorax and elytra of *C. jucundus* are completely different. Gahan (1906) mentioned that this species is found in Chennai, Shimoga and Mysore in southern India. Chevrolat (1863) described *C. cognatus*, a synonym of *C. jucundus* and mentioned its distribution from Sylhet (now in Bangladesh). Aurivillius (1912) listed this species as *Chlorophorus jucundus* and mentioned its distribution as southeastern India. According to Kariyanna et al. (2017), the distribution of this species is in India (Tamil Nadu: Madras; Karnataka: Shimoga, Mysore) and Bangladesh. Ghate (2012) recorded only two species, *Chlorophorus annularis* (Fabricius 1787) and *Chlorophorus quatuordecimmaculatus* (Chevrolat, 1863) in Maharashtra. None of the above studies and the localities for *C. jucundus* include Maharashtra. Hence, Kolhapur is a new locality for *C. jucundus* and

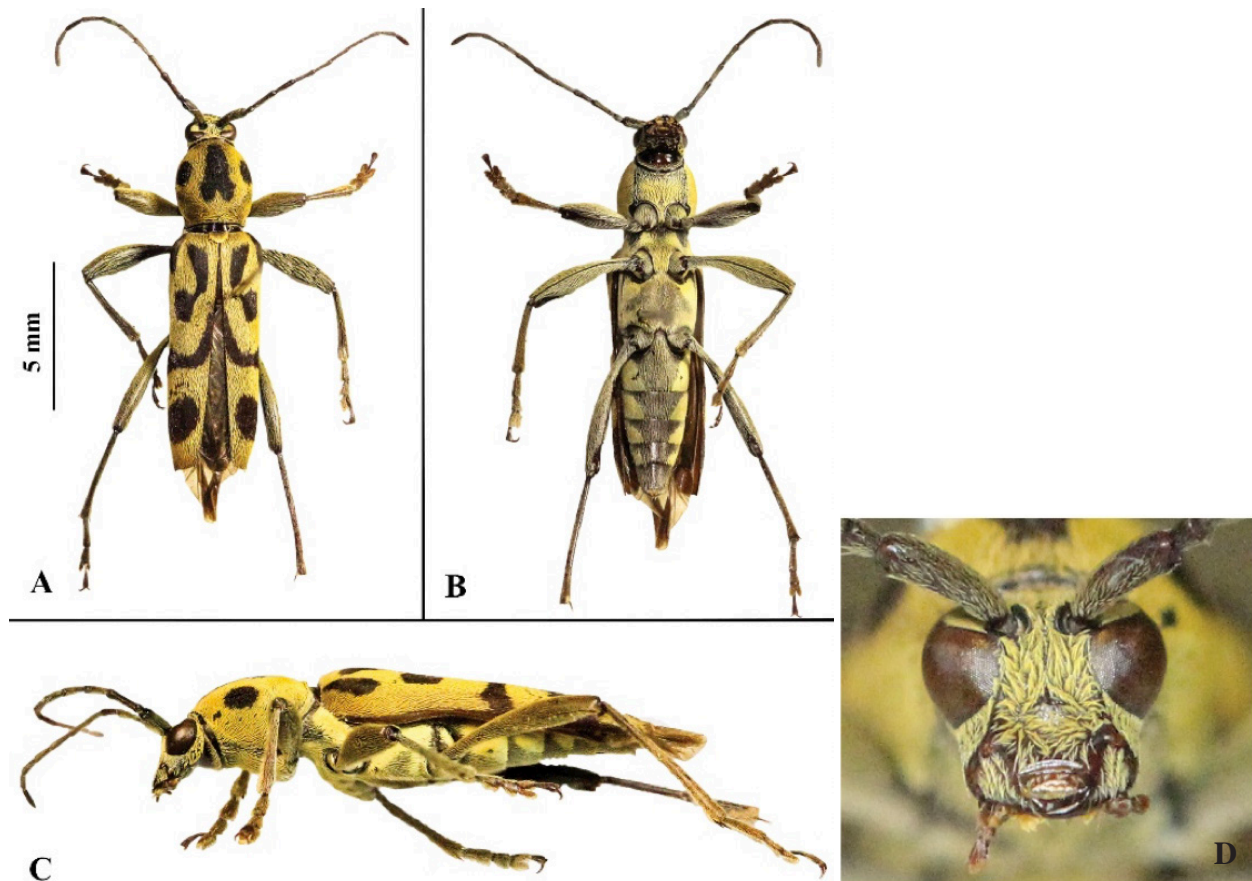


Image 1. *Chlorophorus jucundus* (Perroud, 1855) habitus. A—Dorsal view | B—Ventral view | C—Lateral view | D—Head (frontal view). © Yogesh Mane.

an addition to the cerambycid fauna of Maharashtra. The current record extends its known geographical range northwards from its previous locality, Mysore (Karnataka) by about 560 km.

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