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



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

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The family Cicadidae is the largest family of cicada made up of 3,200 species of which roughly 250 species are found in India (Kunte & Roy 2021). The genus *Callogaeana* Chou & Yao, 1985 consist of nine living species of Asian cicadas of which the species *Callogaeana festiva* Fabricius, 1803 is found in the majority of the southeastern Asian countries including China, Indonesia, Thailand, Sumatra, Laos, & Malaysia and in parts of southern Asia such as in Bhutan and northeastern India (Sanborn 2014). In India, it is reported from Sikkim and from Buxa Tiger Reserve, West Bengal (Image 1) (Kunte & Roy 2021). *Callogaeana* belongs to the tribe Gaeanini Distant, 1905 which bears close morphological resemblance to the tribe Tosenini Amyot & Audinet-Serville, 1843.

The diversity and distribution of cicadas within the state of Mizoram has been poorly studied and this report adds a new distribution record for the state in addition to *Tosena splendida* (Distant, 1878) and *Dundubia hastata* (Moulton, 1923) formerly reported

by Marathe et al. (2021). Hruaitluangi et al. (2021) have also recently reported the occurrence of *Pomponia cinctimanus* (Walker, 1850) and *Dundubia annandalei* (Boulard, 2007) from the state.

The specimen was collected on the side of a forest track under a *Schima walichi* tree in a secondary forest utilized for potato and rice cultivations surrounded by primary forests at the outskirts of Hualtu, Serchhip District, Mizoram, India (23.53 N 92.91 E; 1,345 m) on 14 June 2021 (Image 1). It is currently preserved at the Departmental Museum of Zoology, Mizoram University (MZMU), under the accession number MZMU2409. The GPS coordinate of the collection site was recorded using a Garmin Montana 650-GPS navigator and the photographs were taken with Canon EOS m6 mark II digital camera.

The species identification of *Callogaeana festiva* (Image 2b) was based on the characters given by Distant (1892) where the species is characterised by “body above black; ocelli, eyes and a broad fascia behind them

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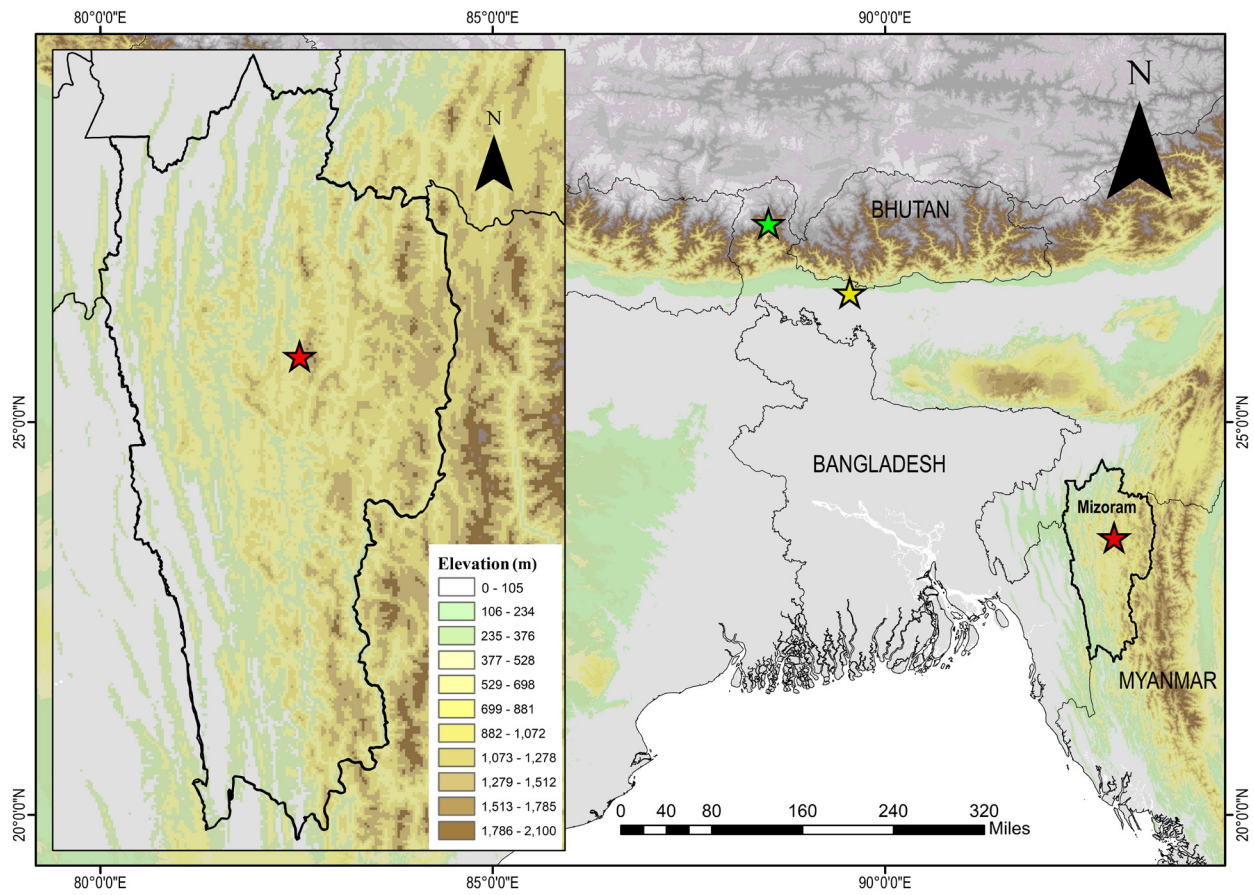


Image 1. Map showing the distribution of *Callogaeana festiva* within the Indian subcontinent; Sikkim (in green star), Buxa Tiger Reserve, West Bengal (in yellow star) and Hualtu, Mizoram (in red star).



Image 2. a–Habitat of *Callogaeana festiva* in the outskirts of Hualtu Village, Serchhip District, Mizoram, India | b–habitus of *Callogaeana festiva* collected. © Khawlhing Marova.

reddish ochre; margins of pronotum and four discal fasciae to mesonotum of which the two central ones are angulated and connected with the anterior angle at the basal cruciform elevation greenish ochraceous. Body beneath and legs black; apical half of face and a spot between face and eyes reddish ochre. Tegmina greenish ochre; the radial area, a transverse fascia crossing centre from apex of radial area, near which is a large triangular spot, apex and outer and inner margins, and two small spots near base, blackish. The black area at apex is more or less broken, sometimes including a small greenish-ochre spot. Wings pale bluish green; the apex broadly black containing a pale bluish spot and the margin, black, continued more narrowly to anal angle. The face is coarsely transversely striate, and broadly sulcated at base."

The collection site of *Callogaeana festiva* at the outskirts of Hualtu Village was ca. 83 km south-east from Aizawl city, the district capital of Mizoram (Image 1). It is surrounded by a forest with vegetation such as, *Aganope thysiflora*, *Amorphophallus bulbifer*, *Biedens pilosa*, *Dioscorea alata*, *Paederia foetida*, and *Lithocarpus dealbatus*. The forest type of the surveyed area falls under the tropical wet evergreen forest and tropical semi-evergreen forest associated with moist deciduous forest corresponding to the Cachar tropical

evergreen 1B/C3 and semi-evergreen 2B/C2 forest (Champion & Seth 1968). Earlier reports reveal that this species is distributed in two states- Sikkim and West Bengal in India. This report gives the third report of *C. festiva* from India. Nearest locality of this species is ca. 484 km (aerial distance) from previous locality at Buxa Tiger Reserve, West Bengal. Diversity of cicada in states of northeastern India is poorly studied and this report provides the easternmost as well as southernmost distribution of this species from India.

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