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**Twenty-five new species of Costa Rican Limacodidae
(Lepidoptera: Zygaenoidea)**

MARC E. EPSTEIN & JORGE F. CORRALES



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Twenty-five new species of Costa Rican Limacodidae (Lepidoptera: Zygaenoidea)

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ABSTRACT

Twenty-five new species of neotropical Limacodidae, primarily from Central America, are described. The majority of these species (n=15) are from *Parasa* and *Natada* generic complexes, both presently known to contain only spiny caterpillars. In the *Parasa* complex, they include: *Parasa figueresi*, new species, *Parasa joanae*, new species, *Parasa sandrae*, new species, *Parasa shirleyae*, new species, *Euclea mesoamericana*, new species, *Euclea zurquicola*, new species, *Euclea microcippus*, new species, *Euclea costaricana*, new species, *Euclea gajentaani*, new species, *Euclea josepsi*, new species, *Talima beckeri*, new species, *Talima weissi*, new species, and *Talima erojasi*, new species. In the *Natada* complex, two new taxa are *Natada delgadoi*, new species, and *Natada varablancana*, new species. In a generic complex with hairy caterpillars, the *Phobetron* complex, six new taxa are: *Phobetron guzmanae*, new species, *Isochaetes dwagsi*, new species, *Isochaetes kenjii*, new species, *Isochaetes heevansi*, new species, *Isochaetes tapantiensis*, new species, and *Vipsophobetron davis*, new species. In the *Prolimacodes* and *Perola* complexes, caterpillars are known to be smooth. New species in the *Prolimacodes* complex are *Prolimacodes montanus*, new species, and *Dichromapteryx savorioi*, new species, while the *Perola* complex includes *Perola aenea*, new species, and *Epiperola browni*, new species. *Euclea microcippus*, *Parasa sandrae* and *Vipsophobetron davis* are the smallest species known to occur in their genera. *Euclea mesoamericana* and *Parasa figueresi* are relatively common in collections but have been mistakenly grouped with *Euclea cippus* (Cramer) and *Parasa schausi* Dyar, respectively. Each was reported from both Central and South America, but is now considered to be limited to South America. *Talima weissi* is closely related to the Mexican species *T. assimilis* (Dyar), sharing both a detachable clump of hairs on 8th abdominal segment in males and large ductus seminalis, which hold the hairs, in females. Larval descriptions or hostplants are presented for *P. sandrae*, *P. joanae*, *E. mesoamericana*, *E. gajentaani*, *T. beckeri*, *T. weissi*, *I. dwagsi*, *I. kenjii*, *I. heevansi*, and *V. davis*. *Euclea zurquicola*, *E. josepsi*, *T. erojasi*, *N. delgadoi*, *N. varablancana*, *P. guzmanae*, *I. tapantiensis*, and *E. browni* are known from only one locality, each in Costa Rica, while the last four are known only from unique specimens.

Key words: Insecta, Lepidoptera, Limacodidae, new species, larval descriptions, larval hostplants, parasitoids, *Parasa* complex, *Natada* complex, *Phobetron* complex, *Prolimacodes* complex, *Perola* complex, *Parasa*, *Euclea*, *Talima*, *Natada*, *Prolimacodes*, *Dichromapteryx*, *Perola*, *Epiperola*, Costa Rica, Mexico, Central America, South America