

## SYSTEMATIC ACCOUNT

Family TRICHONISCIDAE Sars, 1899  
Subfamily HAPLOPHTHALMINAE Verhoeff, 1908

Genus *Leucocyphoniscus* Verhoeff, 1900

TYPE SPECIES. — *Leucocyphoniscus verruciger* Verhoeff, 1900 by monotypy.

*Leucocyphoniscus pisanus* n. sp.  
(Figs 1-3, 21A)

[urn:lsid:zoobank.org:act:2C35B10A-CEA5-46BC-BCF6-1C8BD85810BC](https://doi.org/10.21203/rs.3.rs-1000000/v1)

TYPE MATERIAL. — **Holotype.** ♂, Monte Pisano, Buca delle Fate di Cima Sugheretta, 1823 T/PI, 43°44'37"N, 10°29'03"E, San Giuliano Terme, Prov. Pisa, leg. S. Taiti and G. A. Gruber, 20.I.2007 (MZUF 9664). **Paratypes.** 3 ♂, 12 ♀, same data as holotype (MZUF 9664); 9 ♂, 6 ♀, same locality as holotype, leg. S. Taiti, 25.I.2008 (MZUF 9665); 1 ♂, 2 ♀, same data (MNHN-IU-2017-1438); 1 ♀, Monti d'Oltreserchio, Tana della Volpe di Baccanella, 247 T/PI, 43°47'05"N, 10°24'09"E, Baccanella, Vecchiano, Prov. Pisa, leg. S. Taiti and M. Del Guasta, 10.II.2007 (MZUF 9666).

DIAGNOSIS. — A species of *Leucocyphoniscus* characterized by the cephalon with three large tubercles and a very prominent tubercle on pleonite 3.

ETYMOLOGY. — The new species is named after the sampling locality (Monte Pisano).

## DESCRIPTION

Maximum length: ♂, 3.8 mm; ♀, 4.1 mm. Body colourless, ovoidal, outline not interrupted between pereon and pleon; pereon tergites strongly convex, epimera obliquely directed outwards (Fig. 1A). Dorsum bearing distinct ribs and tubercles (Fig. 1A-C): cephalon with one central tubercle with two rounded tips, and two large tubercles near rear margin; pereonites with 1 + 1 well developed longitudinal paramedian ribs almost as long as tergites, and 3 + 3 faint external ribs; pleonite 3 with one prominent median tubercle. Cephalon (Fig. 1B, C) with large subquadrangular frontal lateral lobes, directed outwards and not protruding compared with widely rounded median lobe. Eyes absent. Pereonites with right-angled posterior corners (Fig. 1A). Pleonites 3-5 (Fig. 1A) with large epimera obliquely directed backwards. Telson (Fig. 1D) wider than long, distal part trapezoidal with concave sides and truncate apex. Antennula (Fig. 1E) of three articles, basal article longest; two aesthetascs at apex as long as third article. Antenna (Fig. 1F) with fifth article of peduncle slightly longer than flagellum; flagellum of three articles, with three aesthetascs on second article. Mandibles (Fig. 2A, B) with two free penicils on left and one free penicil on right. Maxillula (Fig. 2C) outer branch with 4 + 4 teeth, setose stem among outer group of teeth; inner branch with three stout penicils at apex, outer penicil much longer than other two. Maxilla (Fig. 2D) with

# Brehm, Gunnar, 2018, Revision of the genus *Callipia* Guenée, 1858 (Lepidoptera, Geometridae), with the description of 15 new taxa

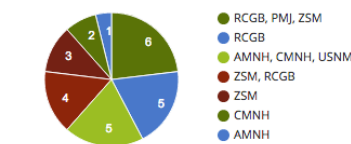
Brehm, Gunnar, 2018, Revision of the genus *Callipia* Guenée, 1858 (Lepidoptera, Geometridae), with the description of 15 new taxa, European Journal of Taxonomy 404, pp. 1–54.

publication ID <https://doi.org/10.5852/ejt.2018.404>  
link to original document <https://doi.org/10.5852/ejt.2018.404>  
document provided by Plazi

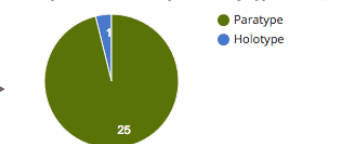
## Treatments (28)

*Callipia balteata*  
*Callipia balteata*  
*Callipia fiedleri*  
*Callipia lamasi*

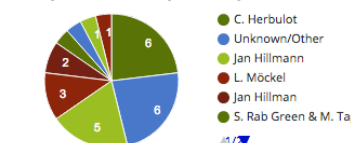
## Callipia walterfriedlii: Specimens by Collection (n=26)



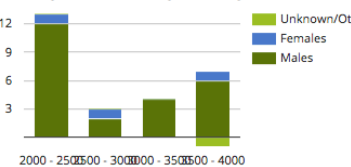
## Callipia walterfriedlii: Specimens by Type Status (n=26)



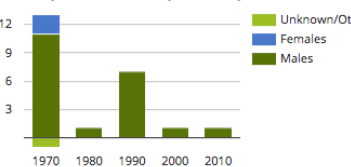
## Callipia walterfriedlii: Specimens by Collector (n=26)



## Callipia walterfriedlii: Specimens by Elevation (n=26)



## Callipia walterfriedlii: Specimens by Decade (n=26)



## Monograph

[urn:lsid:zoobank.org:pub:EFD82C30-DBD4-40D0-8FE5-FAE10B7E560D](https://doi.org/10.5852/ejt.2018.404)

## Revision of the genus *Callipia* Guenée, 1858 (Lepidoptera, Geometridae), with the description of 15 new taxa

Gunnar BREHM

Institut für Spezielle Zoologie und Evolutionsbiologie mit Phyletischem Museum,  
Vor dem Neutor 1, 07743 Jena, Germany.  
E-mail: [gunnar.brehm@uni-jena.de](mailto:gunnar.brehm@uni-jena.de)

[urn:lsid:zoobank.org:author:536E3B08-313E-4799-85D3-909216173100](https://doi.org/10.5852/ejt.2018.404)

**Abstract.** The vividly coloured Neotropical genus *Callipia* Guenée (1858) (Lepidoptera Linnaeus, 1758, Geometridae (Leach, 1815), Larentiinae (Leach, 1815). Stammadini Forbes, 1948) is revised and separated into four species groups, according to molecular data (COI) gene data and morphology. For the first time, the genus is recorded from Ecuador.

## Type material

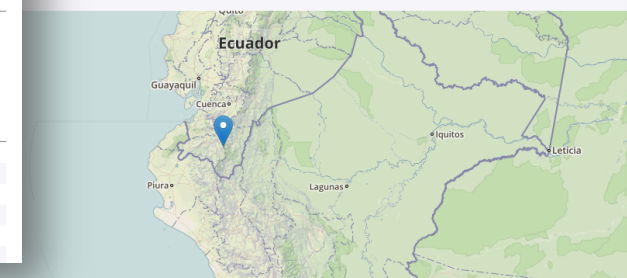
### Holotype (Figs 24, 32)

ECUADOR: ♂, Loja [province], PN [Parque Nacional] Podocarpus, 04.115° S, 79.171° W, 2950 m, 11 Apr. 2000, S. Rab Green, M. Tapia leg. (AMNH) (C-0068 with GS-398, COI sequence 658 bp, BIN).

## Callipia walterfriedlii Brehm, 2018

Collected in Ecuador  
Animalia > Arthropoda > Insecta > Lepidoptera > Geometridae > Callipia

Dataset: Revision of the genus *Callipia* Guenée, 1858 (Lepidoptera, Geometridae), with the...  
Publisher: Plazi.org taxonomic treatments database  
Reference: <http://treatment.plazi.org/id/03E0B618FF89F741FDE2FC22352F9B4.mC.3B210D50FF88F741FF6FFDA12266FD2A>



## About the dataset

This dataset contains the digitized treatments in Plazi based on the original journal article Brehm, Gunnar (2018): Revision of the genus *Callipia* Guenée, 1858 (Lepidoptera, Geometridae), with the description of 15 new taxa. European Journal of Taxonomy 404: 1–54, DOI: <https://doi.org/10.5852/ejt.2018.404>

taxa. European Journal of Taxonomy 404: 1–54, DOI: <https://doi.org/10.5852/ejt.2018.404>

zenodo

December 31, 2018

Figs 20–29 in Revision of the genus *Callipia* Guenée, 1858 (Lepidoptera, Geometridae), with the description of 15 new taxa

Brehm, Gunnar

Figs 20–29 Adult moths, ♂♂ (a = dorsal view; b = ventral view). 20. *Callipia vicinaria* Dognin, 1913, lectotype (C-0197). 21. *C. vicinaria* Dognin, 1913 (C-0198). 22. *C. vicinaria* Dognin, 1913 (C-0389, COI data). 23. *C. vicinaria* Dognin, 1913 (C-0390, COI data). 24. *C. walterfriedlii* sp. nov., holotype (C-0068, COI data). 25. *C. walterfriedlii* sp. nov., paratype (ID 22342, COI data). 26. *C. walterfriedlii* sp. nov., paratype (C-0065, COI data). 27. *C. walterfriedlii* sp. nov., paratype (C-0207). 28. *C. hausmanni* sp. nov., holotype (C-0406, COI data). 29. *C. hausmanni* sp. nov., paratype (C-0413).

Preview

22a *vicinaria* ♂

22b *vicinaria* ♂

23a *vicinaria* ♂

23b *vicinaria* ♂

131 *C. rosetta*

132 *C. rosetta* habitat

133 *C. walterfriedlii*

134 *C. walterfriedlii* habitat

Files (7.6 MB)

Name Size

figure.png 7.6 MB

Preview Download



