

## Reporte de Fichas para el usuario: edith gómez

Ficha ID: 56df75e783c45700544e3c7c

Fecha de creación: 2016-03-09T01:01:32.488Z

annualCycles

annualCycleUnstructured:

habitats

0

dataObject:

additionalInformation:

0

link: <http://www.redalyc.org/articulo.oa?id=44922967004>

isbn: 4492296700

keywords: Baetodes,Camelobaetidius,Leptohyphes,Thraulodes,Tricorythodes

institution:

address:

publisher:

accessed:

websites:

chapter:

series:

pages: 63--93

issue:

volume: 58

year: 2010

0: Flower, R W

1: De la Rosa, C

title: Cap\itulo 4. Ephemeroptera

source: Revista de Biolog\ia Tropical

type: article

tags: Baetodes,Camelobaetidius,Leptohyphes,Thraulodes,Tricorythodes

abstract:

last\_modified:

created:

group\_id:

profile\_id:

id:

geoPoint:

location:

thumbnailURL:

description:

source:

bibliographicCitation:

rightsHolder:

rights: Universidad Católica de Oriente

license: Atribución - No Comercial - Compartir igual (CC BY-NC-SA 4.0)

modified:

created:

mimeType:

dataType:

identifier:

habitatUnstructured: Las ninfas de Tricorythodes viven entre las piedras, hojarasca sumergida y vegetación acuática, en donde se refugian de las corrientes fuertes. Muchas veces se encuentran dentro del fango en el fondo

de las quebradas, además pueden llegar a tolerar niveles relativamente altos de contaminación (Flower & De la Rosa, 2010).

[commonNamesAtomized](#)

creation\_date: 2016-03-09T01:01:32.488Z

usesManagementAndConservation

[ancillaryData](#)

managementAndConservationUnstructured:

[managementAndConservationAtomized](#)

identificationKeys

0

dataObject:

additionalInformation:

0

link: <http://www.redalyc.org/articulo.oa?id=44922967004>

isbn: 4492296700

keywords: Baetodes,Camelobaetidius,Leptohyphes,Thraulodes,Tricorythodes

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volume: 58

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type: article

tags: Baetodes,Camelobaetidius,Leptohyphes,Thraulodes,Tricorythodes

abstract:

last\_modified:

created:

group\_id:

profile\_id:

id:

1

link: <https://doaj.org/article/51b4d5be55764438ab2822976d99f1fa>

keywords: Leptohyphes,Tricorythodes,austral yungas,bolivian yungas,ephemerelloidea,mayfly,mountain cloud forest,pannota

institution:

address:

publisher:  
accessed:  
websites:  
chapter:  
series:  
pages: 233--252  
issue:  
volume: 69  
year: 2010  
0: Molineri, Carlos  
title: Las especies de Leptohyphidae (Ephemeroptera) de las yungas de Argentina y Bolivia : diagnosis, distribución y claves  
source: Revista de la Sociedad Entomológica Argentina  
type: article  
tags: Leptohyphes, Tricorythodes  
abstract: The species of Leptohyphidae occurring in the Yungas cloud forest are studied. Eighteen species from five genera are known from the region, including the following new country records: Leptohyphes liniti Wang, Sites & McCafferty, L. maculatus Allen, L. nigripennis Molineri & Zúñiga, L. setosus Allen, and Tricorythodes hiemalis Molineri from Bolivia; Leptohyphes hirsutus Allen & Roback and L. petersi Allen from Bolivia and Argentina; and Tricorythodes quizeri Molineri from Argentina. Diagnoses, illustrations, and keys to distinguish the treated species are presented. The study of the distribution of these species revealed three different patterns: 1) a group of five species restricted to the Yungas; 2) a group of eight species that extend their ranges toward the montane forest in the north; and 3) a group of three species also present in southern areas (central Argentina and northern Patagonia).  
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source:  
bibliographicCitation:  
rightsHolder:  
rights: Universidad Católica de Oriente  
license: Atribución - No Comercial - Compartir igual (CC BY-NC-SA 4.0)  
modified:  
created:  
mimeType:  
dataType:  
identifier:  
keys: Flower, R. W., & De la Rosa, C. (2010). Capítulo 4. Ephemeroptera. Revista de Biología Tropical, 58(4), 63–93. Retrieved from <http://www.redalyc.org/articulo.oa?id=44922967004>  
Molineri, C. (2010). Las especies de Leptohyphidae (Ephemeroptera) de las yungas de Argentina y Bolivia /: diagnosis, distribución y claves. Revista de La Sociedad Entomológica Argentina, 69(3-4), 233–252. Retrieved from <https://doaj.org/article/51b4d5be55764438ab2822976d99f1fa>

fullDescription

0

dataObject:  
additionalInformation:

0

link: <http://www.scielo.org.co/pdf/bccm/v16n2/v16n2a17.pdf>

keywords: Thraulodes, Tricorythodes, ef\imeras, inventario, región andino-amazónica, taxonom\ia

institution:

address:

publisher:

accessed:

websites:

chapter:

series:

pages: 198--208

issue:

volume: 16

year: 2012

0: Salinas, Luis G

1: Dias, Lucimar G

2: Bacca, Tito

3: Zúñiga, Mar\ia del Carmen

4: Rodr\iguez, Mauricio

title: Primeros registros de Ephemeroptera (insecta) para el departamento de Putumayo, Colombia

source: Bolet\in Cient\ifico, Centro de Museos, Museo de Historia Natural

type: article

tags: Thraulodes, Tricorythodes

abstract:

last\_modified:

created:

group\_id:

profile\_id:

id:

geoPoint:

location:

thumbnailURL:

description:

source:

bibliographicCitation:

rightsHolder:

rights: Universidad Católica de Oriente

license: Atribución - No Comercial - Compartir igual (CC BY-NC-SA 4.0)

modified:

created:

mimeType:

dataType:

identifier:

fullDescriptionUnstructured: Las ninfas de este género se caracterizan por presentar pterotecas posteriores ausentes en ambos sexos, branquia opercular del segundo segmento abdominal, triangular, suboval o subcuadrangular con dos crestas dorsales, formula branquial 3/3/3/3/2, número de láminas reducidas en algunas especies, fémur anterior con una hilera transversal de largas setas, palpo maxilar reducido, con 3,2 1 segmento, generalmente con seta apical, labro con una emarginación antero mediana profunda y ancha, uñas tarsales con una hilera marginal de denticulos y 2 hileras submarginales cerca al ápice y proyección genal y frontal presente (Salinas et al., 2012).

briefDescription:

## references

link: <http://www.redalyc.org/articulo.oa?id=44922967004>

isbn: 4492296700

keywords: Baetodes, Camelobaetidius, Leptohyphes, Thraulodes, Tricorythodes

editors

institution:  
address:  
publisher:  
accessed:  
websites:  
chapter:  
series:  
pages: 63--93  
issue:  
volume: 58  
year: 2010

authors

authors: Flower, R W  
authors: De la Rosa, C  
title: Cap\titulo 4. Ephemeroptera  
source: Revista de Biolog\ia Tropical  
type: article  
tags: Baetodes,Camelobaetidius,Leptohyphes,Thraulodes,Tricorythodes  
abstract:

identifiers

last\_modified:  
created:  
group\_id:  
profile\_id:  
id:  
  
taxonRecordName

ancillaryData

providerSpecificData  
  
anyTwo:  
providerLink:  
  
publicationStatus  
  
microReference:  
source:  
datatype:  
identifier:  
source:  
datatype:  
identifier:  
note:  
ruleConsidered:  
  
replacementNameFor  
  
microReference:  
source:  
datatype:  
identifier:

source:  
datatype:  
identifier:  
note:  
ruleConsidered:

sanctioned

microReference:  
source:  
datatype:  
identifier:  
source:  
datatype:  
identifier:  
note:  
ruleConsidered:

laterHomonymOf

microReference:  
source:  
datatype:  
identifier:  
source:  
datatype:  
identifier:  
note:  
ruleConsidered:

[conservedAgainst](#)

basedOn

microReference:  
source:  
datatype:  
identifier:  
source:  
datatype:  
identifier:  
note:  
ruleConsidered:

basionym

microReference:  
source:  
datatype:  
identifier:  
source:  
datatype:  
identifier:  
note:  
ruleConsidered:

[spellingCorrentionOf](#)

typeNameEntity

source:  
datatype:  
identifier:  
source:  
datatype:  
identifier:  
source:  
datatype:  
identifier:

typificacion

typeOfType:

[lectotypeMicroReferenceVoucher](#)

[lectotypePublicationVoucher](#)

[voucherReference](#)

simple:  
microReference:  
year:

publishedIn

simple: Arch. Naturgesch. , 85, A11, 51.  
source:  
datatype:  
identifier:

specialAuthorship

[authors](#)

[year](#)

simple:  
canonicalAuthorship

[authors](#)

[year](#)

simple:  
simple: Ulmer, 1920

canonicalName

infraspecificEpithet:  
specificEpithet:  
infragenericEpithet:  
linkType:  
ref:  
uninomial:

simple: Tricorythodes  
rank: GENUS  
simple: Tricorythodes Ulmer, 1920

attributes

nomenclaturalCode:  
isAnamorphic:  
id:

[synonymsAtomized](#)

[ancillaryData](#)

synonymStatus:  
synonymName  
anyTwo:

[anyOne](#)

providerLink:  
microReference:

publishedIn

source:  
datatype:  
identifier:

reletedName

source:  
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note:  
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source:  
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reletedName

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note:  
ruleConsidered:  
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publishedIn

source:  
datatype:  
identifier:

reletedName



source:  
datatype:  
identifier:  
note:  
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datatype:  
identifier:  
note:  
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note:  
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identifier:

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datatype:  
identifier:  
note:  
ruleConsidered:

typeNameEntity

source:  
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datatype:  
identifier:  
source:  
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identifier:

typeVoucherEntity

typeOfType:

simple:

microReference:

year:

source: Bull. Amer. Mus. , 43, 39.

datatype:

identifier:

[combinationAuthorship](#)

basionymAuthorship

simple:

authorship

simple:

simple: Needham, 1920

epithet

infraspecificEpithet:

specificEpithet:

infragenericEpithet:

genus

linkType:

ref:

uninomial:

simple: Caenopsis

rank: GENUS

simple: Caenopsis Needham, 1920

nomenclaturalCode:

isAnamorphic:

id:

[hierarchy](#)

[ancillaryData](#)

dataObject:

additionalInformation:

[reference](#)

geoPoint:

location:

thumbnailURL:

[mediaURL](#)

description:

[subject](#)

source: The Catalogue of Life, 3rd January 2011

## audience

bibliographicCitation:  
rightsHolder:  
rights:  
license:  
title:  
modified: 2016-03-09T01:01:12.474Z  
created: 2016-03-09T01:01:12.474Z

## agent

homepage:  
role:  
email:  
phone:  
address:  
position:  
organisation:  
lastName:  
firstName:  
mimeType:  
dataType:  
identifier:  
parentTaxon: Leptohyphidae  
higherClassification:  
infraspecificEpithet:  
specificEpithet:  
taxonRank: GENUS  
subGenus:  
genus: Tricorythodes  
family: Leptohyphidae  
order: Ephemeroptera  
classHierarchy: Insecta  
phylum: Arthropoda  
kingdom: Animalia  
recommended:  
classification:

invasiveness

invasivenessUnstructured:

reproduction

reproductionUnstructured:

molecularData

molecularDataUnstructured:

migratory

migratoryUnstructured:

lifeForm

lifeFormUnstructured:

lifeCycle

lifeCycleUnstructured:

interactions

interactionsUnstructured:

feeding

0

dataObject:

additionalInformation:

0

link: <https://doaj.org/article/51b4d5be55764438ab2822976d99f1fa>

keywords: Leptohyphes,Tricorythodes,austral yungas,bolivian yungas,ephemerelloidea,mayfly,mountain cloud forest,pannota

institution:

address:

publisher:

accessed:

websites:

chapter:

series:

pages: 233--252

issue:

volume: 69

year: 2010

0: Molineri, Carlos

title: Las especies de Leptohyphidae (Ephemeroptera) de las yungas de Argentina y Bolivia : diagnosis, distribución y claves

source: Revista de la Sociedad Entomológica Argentina

type: article

tags: Leptohyphes,Tricorythodes

abstract: The species of Leptohyphidae occurring in the Yungas cloud forest are studied. Eighteen species from five genera are known from the region, including the following new country records: Leptohyphes liniti Wang, Sites \& McCafferty, L. maculatus Allen, L. nigripennis Molineri \& Zúñiga, L. setosus Allen, and Tricorythodes hiemalis Molineri from Bolivia; Leptohyphes hirsutus Allen \& Roback and L. petersi Allen from Bolivia and Argentina; and Tricorythodes quizeri Molineri from Argentina. Diagnoses, illustrations, and keys to distinguish the treated species are presented. The study of the distribution of these species revealed three different patterns: 1) a group of five species restricted to the Yungas; 2) a group of eight species that extend their ranges toward the montane forest in the north; and 3) a group of three species also present in southern areas (central Argentina and northern Patagonia).

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rights: Universidad Católica de Oriente

license: Atribución - No Comercial - Compartir igual (CC BY-NC-SA 4.0)

modified:

created:

contentType:

dataType:

identifier:

feedingUnstructured: Los contenidos estomacales revelan partículas de materia fina que muy probablemente las ninfas recogen de “depósitos” entre las rocas del lecho, por lo que se encuentran clasificados como “colectores de depósitos” (Molineri, 2010).

environmentalEnvelope

environmentalEnvelopeUnstructured:

ecologicalSignificance

0

dataObject:

additionalInformation:

0

isbn: 958-655-081-8

keywords: Aeshna, Alluaudomyia, Ambrysus, Anacroneuria, Anchytarsus, Argia, Atanatolica, Atopsyche, Baetodes, Belostoma, Berosus, Brachymetra albinervis, Buena, Camelobaetidius, Charmatometra bakeri, Chimarra, Copelatus, Corydalus, Curicta, Disersus, Dixella, Eurygerris, Gelastocoris, Grumichella, Helicopsyche, Hemerodromia, Hetaerina, Heterelmis, Hydrometra, Hydroptila, Hypolobocera, Laccophilus, Leptohyphes, Leptonema, Leucotrichia, Limnocoris, Lutrochus, Macrelmis, Macrobrachium, Macrostemum, Marilia, Martarega, Maruina, Melanoides tuberculata, Microcylloepus, Microvelia, Narpus, Nectopsyche, Nerthra, Notonecta, Ochrotrichia, Oecetis, Oxyethira, Phyllogomphoides, Phylloicus, Polyplectropus, Potamobates, Progomphus, Pseudodisersus, Rhagovelia, Rhantus, Simulium, Sylviocarcinus, Tachygerris, Tenagobia, Thraulodes, Tricorythodes, Triplectides, Tropisternus, Uncancylus concentricus, Xenelmis, Xiphocentron

institution:

edition: 1

address:

publisher: Editorial Universidad de Antioquia

accessed:

websites:

chapter:

series:

pages: 170

issue:

year: 2003

0: Roldán, Gabriel

title: Bioindicación de la calidad del agua en Colombia Uso del método BMWP/Col.

source:

type: book

tags: Aeshna, Alluaudomyia, Ambrysus, Anacroneuria, Anchytarsus, Argia, Atanatolica, Atopsyche, Baetodes, Belostoma, Berosus, Brachymetra albinervis, Buena, Camelobaetidius, Charmatometra bakeri, Chimarra, Copelatus, Corydalus, Curicta, Disersus, Dixella, Eurygerris, Gelastocoris, Grumichella, Helicopsyche, Hemerodromia, Hetaerina, Heterelmis, Hydrometra, Hydroptila, Hypolobocera, Laccophilus, Leptohyphes, Leptonema, Leucotrichia, Limnocoris, Lutrochus, Macrelmis, Macrobrachium, Macrostemum, Marilia, Martarega, Maruina, Melanoides tuberculata, Microcylloepus, Microvelia, Narpus, Nectopsyche, Nerthra, Notonecta, Ochrotrichia, Oecetis, Oxyethira, Phyllogomphoides, Phylloicus, Polyplectropus, Potamobates, Progomphus, Pseudodisersus, Rhagovelia, Rhantus, Simulium, Sylviocarcinus, Tachygerris, Tenagobia, Thraulodes, Tricorythodes, Triplectides, Tropisternus, Uncancylus concentricus, Xenelmis, Xiphocentron

abstract:

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rights: Universidad Católica de Oriente  
license: Atribución - No Comercial - Compartir igual (CC BY-NC-SA 4.0)  
modified:  
created:  
mimeType:  
dataType:  
identifier:

ecologicalSignificanceUnstructured: Este género es utilizado como bioindicador de la calidad del agua. Leptohyphidae, familia a la que pertenece, tiene un puntaje de 7 en el índice BMWP/Col. (en donde 1 es altamente tolerante a la contaminación y 10 es poco tolerante), lo cual indica que estos organismos son característicos de aguas poco contaminadas (Roldán, 2003).

#### dispersal

dispersalUnstructured:  
distance:  
structureDispersed:  
type:  
purpose:

#### behavior

behaviorUnstructured:

#### ancillaryData

dataObject:  
additionalInformation:  
geoPoint:  
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bibliographicCitation:  
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license:  
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mimeType:  
dataType:  
identifier:

#### measurementOrFact

relatedTo:  
measurementRemarks:  
measurementMethod:  
measurementDeterminedDate:  
measurementUnit:  
measurementAccuracy:

measurementValue:  
measurementType:  
measurementID:

## endemicAtomized

## distribution

## ancillaryData

dataObject:  
additionalInformation:

## reference

link: <http://doi.org/10.15468/dl.kgazes>  
keywords: Tricorythodes

## editors

institution:  
address:  
publisher:  
accessed:  
websites:  
chapter:  
series:  
issue:  
year: 2015

## authors

authors: GBIF  
title: Tricorythodes (Ulmer, 1920)  
source: GBIF Occurrence Download  
type: miscellany  
tags: Tricorythodes  
abstract:

## identifiers

last\_modified:  
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location:  
thumbnailURL:

## mediaURL

description:

## subject

source:

## audience

bibliographicCitation:  
rightsHolder:  
rights: Universidad Católica de Oriente  
license: Atribución - No Comercial - Compartir igual (CC BY-NC-SA 4.0)  
modified:  
created:

## agent

mimeType:  
dataType:  
identifier:  
distributionUnstructured: Uno de los géneros con más especies descritas en el orden, de distribución panamericana, tanto en áreas montañosas como llanuras tropicales, con numerosas especies en la zona paranaense (Manzo et al., 2014). Posee 19 especies distribuidas en Sudamérica; en Colombia apenas 4 especies se encuentran registradas: *Tricorythodes trifasciatus*, *Tricorythodes zunigae*, *Tricorythodes capuccinorum* y *Tricorythodes uniandinus* (Salinas et al., 2012). De acuerdo a los registros existentes en las colecciones biológicas de Colombia, este género se reporta para los departamentos de Antioquia, Arauca, Boyacá, Cauca, Caldas, La Guajira, Santander y Tolima (GBIF, 2015).

## distributionAtomized

stateProvince: Tolima

## ancillaryData

locality:  
municipality:  
country: Colombia

## temporalCoverage

endDate:  
startDate:

## distributionScope

type:

## threatStatus

## territory

territoryUnstructured:  
areaOfOccupancy:  
extentOfOccurrence:

## populationBiology

populationBiologyUnstructured:

## legislation

legislationUnstructured:

## directThreats

directThreatsUnstructured:

## ancillaryData

dataObject:  
additionalInformation:



geoPoint:  
location:  
thumbnailURL:  
description:  
source:  
bibliographicCitation:  
rightsHolder:  
rights:  
license:  
modified:  
created:  
mimeType:  
dataType:  
identifier:

#### measurementOrFact

relatedTo:  
measurementRemarks:  
measurementMethod:  
measurementDeterminedDate:  
measurementUnit:  
measurementAccuracy:  
measurementValue:  
measurementType:  
measurementID:

abstract: El género *Tricorythodes* fue descrito por Ulmer en 1920, tiene una distribución neotropical y neártica. Las ninfas miden entre 3.0 y 4.0 mm; se reconocen fácilmente por sus branquias operculares triangulares y grandes, aunque en algunas especies pueden verse reducidas hasta adquirir una forma más o menos oval. El cuerpo y las patas de estas ninfas están cubiertos por numerosas setas delgadas y largas, su cuerpo es a menudo cubierto por sedimentos, habitan ríos limpios, de corriente moderada a fuerte, encontrándose frecuentemente enterradas muy superficialmente en los parches de arena gruesa (1-3 mm diámetro de grano) aunque también pueden ocupar otros sitios, bajo o sobre las rocas (Roldán, 2003; Zúñiga et al., 2004).

Los ciclos de vida suelen ser multivoltinos, en zonas subtropicales en la época de invierno, resultan más individuos y en algunas ocasiones de mayor tamaño, los subimago emergen durante la noche y mudan a imago antes del amanecer (Molineri, 2010).

Leptohiphidae, familia a la que pertenece el género *Tricorythodes*, se considera indicadora de aguas medianamente contaminadas, el puntaje de este taxón en el índice BMWP/Col. Es de 7 (el puntaje va de 1 a 10 de acuerdo con la tolerancia de los diferentes grupos a la contaminación orgánica, donde las familias más sensibles reciben un puntaje de 10 y las más tolerantes a la contaminación reciben un puntaje de 1). Los organismos con este puntaje son característicos de aguas poco contaminadas (Roldán, 2003).

#### associatedParty

role:  
personnelIdentifier:  
personnelDirectory:  
homepage:  
email: enataliagomez@gmail.com  
phone:  
postalCode:  
country: Colombia  
state: Bogotá Distrito Capital  
city: Bogotá D.C.  
address:  
organisation:  
position:

lastName: Gómez Melendro  
firstName: Edith Natalia

## ancillaryData

dataObject:  
additionalInformation:

## reference

geoPoint:  
location:  
thumbnailURL:  
mediaURL: <https://www.flickr.com/photos/129724881@N03/16404023092/>  
description:

## subject

source: [https://farm8.staticflickr.com/7428/16404023092\\_dc1466b852.jpg](https://farm8.staticflickr.com/7428/16404023092_dc1466b852.jpg)

## audience

bibliographicCitation: Fotografía Esteban Peláez Sánchez  
rightsHolder: limnologia\_uco  
rights:  
license: <http://creativecommons.org/licenses/by/2.0/>  
modified:  
created:

## agent

contentType:  
dataType:  
identifier:

\_id

\_bsontype: ObjectId  
id: VßuÇfÄW DãÇÀ