

Colecciones entomológicas en la red de GBIF



Francisco Pando
GBIF - España



Que es GBIF:

La mayor red de datos de biodiversidad del mundo

www.gbif.org

Global Biodiversity Information Facility

Free and Open Access to Biodiversity Data

445,816,012	1,454,695	15,278
OCCURRENCES	SPECIES	DATASETS

Map interface with zoom controls (+, -, pan) and a 1px scale indicator.

Taxonomic characteristics

The following provides a summary of number of records per kingdom. Further filters, such as a location or temporal range, can be applied when [exploring the data](#).

286,515,884 (65.061%) Animalia records	121,523,887 (27.363%) Plantae records	8,038,407 (1.816%) Fungi records	4,332,760 (1.011%) Protozoa records
2,107,154 (0.491%) Chromista records	1,007,975 (0.235%) Bacteria records	840,131 (0.196%) Other records	14,228 (0.003%) Archaea records
7,796 (0.0018%) Viruses records			

Record type characteristics

Records may originate from a variety of means, such as a scientist collecting a specimen or an individual recording the occurrence of an organism. This is classified by the [Darwin Core basic Occurrence](#) standard.

303,738,491 (70.907%) Observation records	89,465,185 (20.365%) Specimen records	31,381,460 (7.305%) Unknown evidence records	2,615,217 (0.611%) Fossil records
762,123 (0.178%) Using Specimen records	401,613 (0.094%) Literature Occurrence records		

Temporal characteristics























GBIF portal statistics

Daily visits to GBIF portal, 1 Feb - 07 May 2014



Visitor numbers by country (top 10), 1 Feb – 07 May 2014

	Country / Territory	Sessions	% Sessions
1.	 United States	48,380	 17.64%
2.	 Spain	12,960	 4.73%
3.	 Germany	12,577	 4.59%
4.	 United Kingdom	12,481	 4.55%
5.	 France	10,600	 3.86%
6.	 India	10,530	 3.84%
7.	 Mexico	9,904	 3.61%
8.	 Brazil	9,721	 3.54%
9.	 Italy	7,711	 2.81%
10.	 Colombia	7,583	 2.76%

GBIF

- No es una gran base de datos, más bien una federación de BBDD
 - Los publicadores de datos mantienen su identidad y control sobre los datos que publican
 - ⇒ No hay “datos de GBIF”
 - ⇒ Unos buenos metadatos son clave
- Puede complementar pero no sustituir portales propios de datos
- Está construido sobre una arquitectura informática global, no centralizada, basada en estándares abiertos

No hay “datos del GBIF”

Swiss National Butterflies Databank

Occurrence dataset published by Centre Suisse de Cartographie de la Faune - CSCF

581.051

Occurrences

[View occurrences](#)

Information

Stats

Activity

Summary

FULL TITLE

Swiss National Butterflies Databank

DESCRIPTION

Database with records of various origins, assembling **literature data**, digitized **collection data** and recent **observational records** provided to the CSCF. Proportionally, this latter resource represents the most important one and is the result of the network activities of voluntary collaborators, internally operated projects (Biodiversity Monitoring Z3-Z4, Red List Project) and impact studies, but also includes data from PhD and master theses. The data cover a period from 1835 to our days. Records have been reviewed according to a standardized validation procedure (http://www.cscf.ch/page24164_en.html). Digitized collection data for specimens hosted in Swiss institutions have been excluded from this resource as already part of the corresponding institutional dataset. Nomenclature has been reviewed within the Swiss participation in the Pan-European Species Directory Infrastructure PESI (Fauna Europaea).

PUBLISHED BY

[Centre Suisse de Cartographie de la Faune - CSCF](#)

REGISTRATION DATE

29-may-2012

SERVED BY

[BioCAsE Installation Centre Suisse de Cartographie de la Faune - CSCF](#)

LINKS

· [Dataset homepage](#)

GBIF complementa pero no sustituye a los portales propios de datos

<http://www.gbif.org/dataset/82ad4e4e-f762-11e1-a439-00145eb45e9a>

Real Jardín Botánico, Madrid: MA-Fun...
Occurrence dataset published by Real Jardín Botánico (CSIC)

60.110 Occurrences
[View occurrences](#)

Information Stats Activity

Leaflet | Mapbox, OpenStreetMap contributors

1.628 download events

FILTER	NONE
STATUS	Ready for download (40)
CREATED	08-jul-2014
RECORDS	60.110 records from this dataset
FILTER	LOCATION POLYGON((-11.352222, 40.416667, 14.25, 40.416667, 14.25, 40.416667, 14.25, 40.416667, -11.352222, 40.416667))
STATUS	Ready for download (11)
CREATED	08-jul-2014
RECORDS	2 records from this dataset
FILTER	LOCATION POLYGON((-11.352222, 40.416667, 14.25, 40.416667, 14.25, 40.416667, 14.25, 40.416667, -11.352222, 40.416667))
STATUS	Ready for download (2.5)
CREATED	08-jul-2014
RECORDS	27 records from this dataset

Published datasets

- Real Jardín Botánico: Dibujos de la Real Expedición Botánica del Nuevo Reino de Granada (1783-1816),... Occurrence dataset. Updated 27-sep-2012. 5.796 records
- Real Jardín Botánico, Madrid: MA-Fungi Occurrence dataset. Updated 27-sep-2012. 60.110 records (29.012 georeferenced)
- Real Jardín Botánico, Madrid: MA-Algae Occurrence dataset. Updated 27-sep-2012. 8.096 records (872 georeferenced)
- Real Jardín Botánico, Madrid: MA-Musci Occurrence dataset. Updated 27-sep-2012. 25.140 records (8.163 georeferenced)
- Real Jardín Botánico, Madrid: MA-Hepat Occurrence dataset. Updated 27-sep-2012. 4.071 records (434 georeferenced)
- Real Jardín Botánico, Madrid: MA-Lichen Occurrence dataset. Updated 27-sep-2012. 14.842 records (7.420 georeferenced)
- Real Jardín Botánico (Madrid), Vascular Plant Herbarium (MA) Occurrence dataset. Updated 27-sep-2012. 330.964 records (116.021 georeferenced)
- Real Jardín Botánico, Madrid: MA-Funhist Occurrence dataset. Updated 27-sep-2012. 20.973 records

<http://161.111.170.202/herb/asp/herbariodbe.asp>
<http://161.111.170.202/herb/asp/dos.asp?conque=MA-Fungi&fnhe=38071&fadic=1>

Herbario de Criptogamia

RJB > Colecciones > Herbario > Criptogamia > Bases de datos > Búsqueda

Información Bases de datos Noticias Adquisiciones Contactar por F. Pando

Resultados [Volver al formulario de búsqueda](#)
[Back to the query form](#)

Hyphodermella corrugata (Fr.) J. Erikss. & Ryvarden	1
Det. I.Salcedo	
Hyphodermella rosea (Bres.) Nakasone	2

ESP. Na: Tudela, Las Bardenas Negras, La Plana ; 30TXM3358 , 600 m en Rosmarinus oficialis
O. zquierdo, I. Salcedo & M. Soria
5391/S.
30-jun-1991
MA-Fungi 38071 ex B10-Fungi 156
- [GenBank Acc. No. JN939588](#) - - [GenBank Acc. No. JN940191](#) - - [GenBank Acc. No. FN600389](#) -
Nombre aceptado en el Herbario : *Hyphodermella rosea* (Bres.) Nakasone

CSIC Real Jardín Botánico Webmaster Página preparada por F.Pando Actualizada el 2



NCBI Resources How To

Nucleotide Nucleotide Limits Advanced

Display Settings: GenBank

Hyphodermella rosae strain MA-Fungi 38071 28S ribosomal RNA (LSU) gene, partial sequence

GenBank: JN939588.1
[FASTA](#) [Graphics](#)

Go to:

LOCUS JN939588 1345 bp DNA linear PLN 10-FEB-2012
DEFINITION Hyphodermella rosae strain MA-Fungi 38071 28S ribosomal RNA (LSU) gene, partial sequence.
ACCESSION JN939588
VERSION JN939588.1 GI:358679516
KEYWORDS .
SOURCE Hyphodermella rosae
ORGANISM *Hyphodermella rosae*
Eukaryota; Fungi; Dikarya; Basidiomycota; Agaricomycotina; Agaricomycetes; Polyporales; Phanerochaetaceae; Hyphodermella.
REFERENCE 1 (bases 1 to 1345)
AUTHORS Martin,M.F., Duenas,M. and Telleria,M.T.
TITLE The internal transcribed spacer as a universal DNA barcode marker for Fungi
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1345)
AUTHORS Martin,M.F., Duenas,M. and Telleria,M.T.
TITLE Direct Submission
JOURNAL Submitted (24-OCT-2011) NIH/NIH/NCBI, NCBI, 45 Center Drive, MSC 6510 Building 45, Room 6a.18, Bethesda, MD 20892-6510, USA

No centralizado: El SiB Colombia



ESPECIES

CONJUNTOS DE DATOS

EXPLORADOR GEOGRÁFICO

PUBLICADORES



ACCEDA ÁGILMENTE A DATOS PRIMARIOS SOBRE BIODIVERSIDAD PUBLICADOS POR LA RED DE SOCIOS DEL SiB



ESPECIES DE COLOMBIA
Búsqueda de datos para una especie u otro grupo de organismos.



CONJUNTOS DE DATOS
Búsqueda de un conjunto de datos.

PUBLICADORES
Información de los 23 publicadores de datos en nuestra red, incluyendo una breve descripción de cada publicador.

ÚLTIMO PUBLICADOR EN EL PORTAL DE DATOS.
Cabildo Verde de Sabana de Torres



DEPARTAMENTOS DE COLOMBIA
Información de las especies y registros biológicos en cada departamento, compartidos por nuestros socios a través de la red.

VER DATOS PARA Amazonas



IR AL PORTAL GENERAL

Seguir a @sibcolombia

Follow Be the first of your friends to follow SiB Colombia



DANOS TU OPINIÓN

ENCUENTRA EN NUESTRO PORTAL DE DATOS

1.560.869 REGISTROS BIOLÓGICOS	47.991 ESPECIES REGISTRADAS
--	---------------------------------------

¿CÓMO USAR EL PORTAL DE DATOS?

Imágenes cortesía de Buena Vibra Cycling System

<http://www.sibcolombia.net/>

Los datos

Arácnidos en GBIF

Arachnida Cuvier, 1812

Class in GBIF Backbone Taxonomy

Animalia > Arthropoda

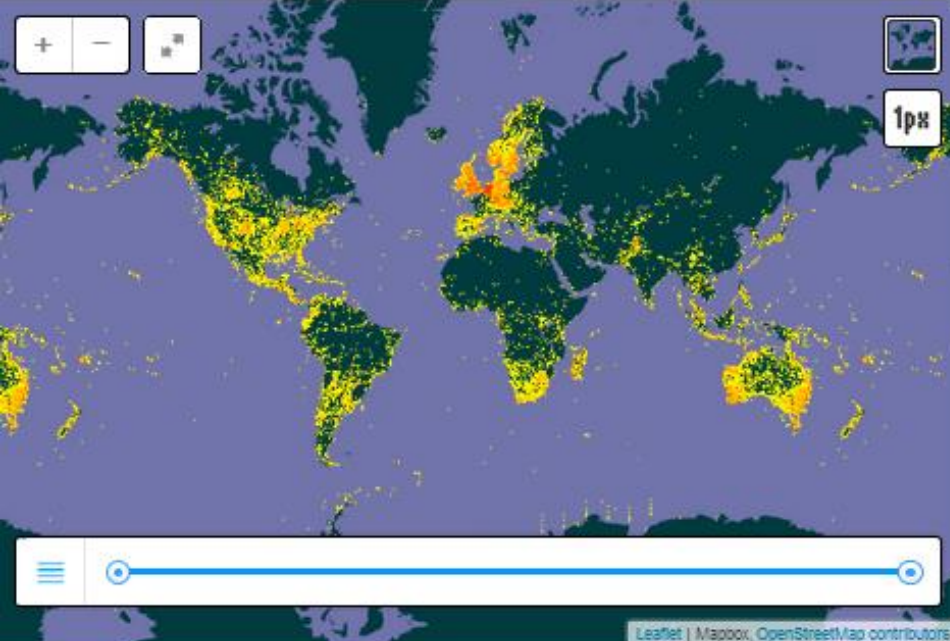
1.556.413 Occurrences | 106.302 Species

[View occurrences](#)

Georeferenced data

VIEW RECORDS
All 1.185.723 | In viewable area

DISTRIBUTIONS
Text based distributions present in some sources.



Leaflet | Mapbox, OpenStreetMap contributors

OCCURRENCE DATASETS

- ARABEL - Arachnologia Belgica in 291.401 occurrences
- Dutch Foundation for Applied Water Research (STOWA) - L... in 175.758 occurrences
- Ohio State Acarology Laboratory (OSAL), Ohio State Univ... in 113.111 occurrences
- Museum of Comparative Zoology, Harvard University in 67.593 occurrences
- RBINS collections in 61.565 occurrences
- Artdata in 46.515 occurrences

[923 more >](#)

CHECKLISTS

- Zoological names. A list of phyla, classes, and orders,... as Arachnida Lamarck, 1815
- IRMNG Homonym List as Arachnida
- Paleobiology Database as Arachnida
- World Register of Marine Species as Arachnida Cuvier, 1812
- Integrated Taxonomic Information System (ITIS) as Arachnida
- Fauna Europaea as Arachnida

[207 more >](#)

<http://www.gbif.org/species/367>

Classification

KINGDOM	Animalia
PHYLUM	Arthropoda
CLASS	Arachnida
ORDER	18
FAMILY	967
GENUS	14.323
SPECIES	106.302

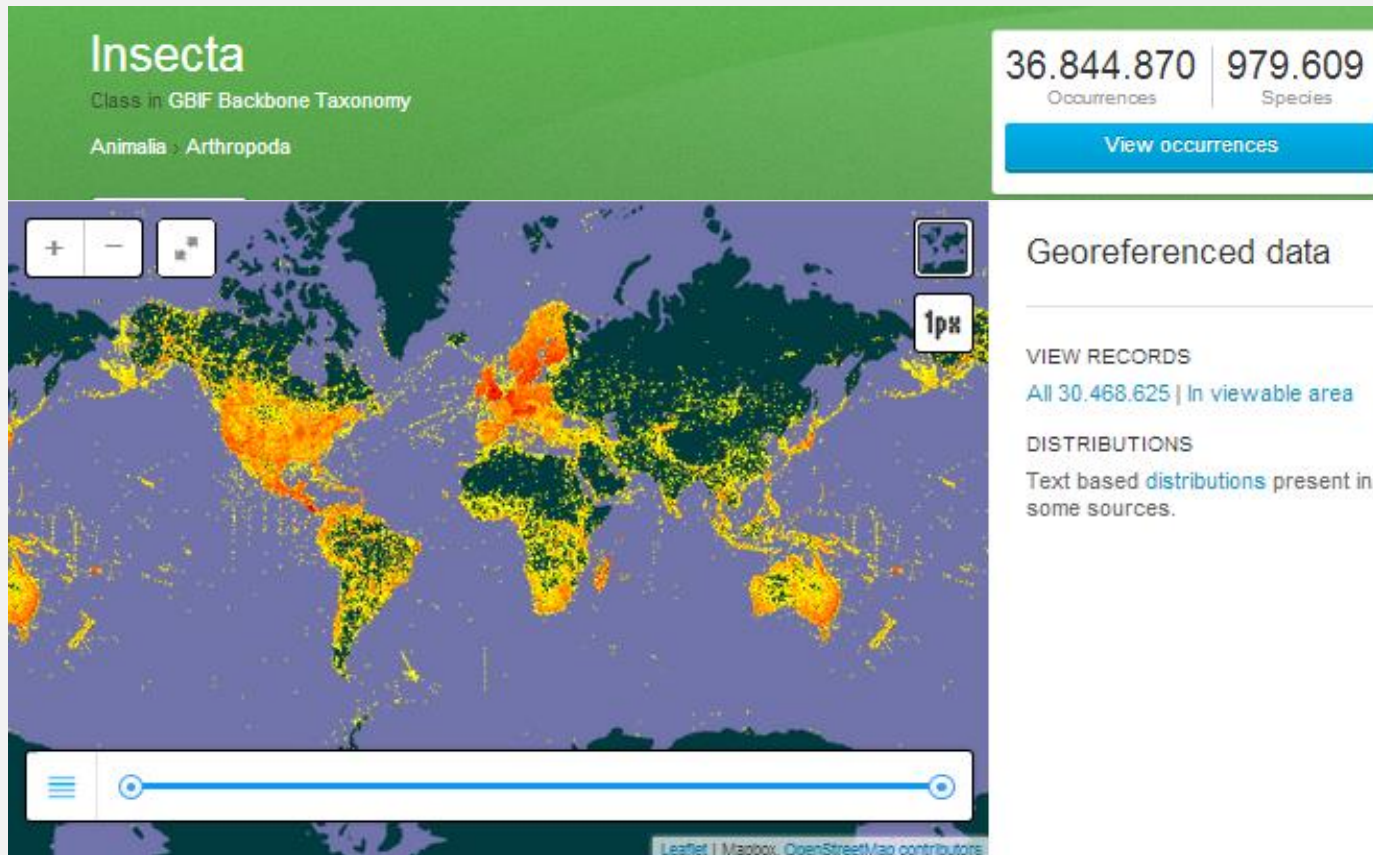
[complete classification](#)

Subordinate taxa

Amblypygi	order	230 descendants
Araneae	order	49,989 descendants
Astigmata	order	4,975 descendants
Holothyrida	order	40 descendants
Ixodida	order	964 descendants
Mesostigmata	order	11,016 descendants
Opilioacarida	order	47 descendants
Opiliones	order	8,110 descendants

Los datos

Insectos en GBIF



Classification

KINGDOM	Animalia
PHYLUM	Arthropoda
CLASS	Insecta
ORDER	30
FAMILY	2.166
GENUS	139.785
SPECIES	979.609
	complete classification

Subordinate taxa

Archaeognatha	order 603 descendants
Blattodea	order 6,708 descendants
Coleoptera	order 312,393 descendants
Dermaptera	order 2,264 descendants
Diptera	order 205,293 descendants
Embioptera	order 542 descendants
Ephemeroptera	order 4,799 descendants
Grylloblattodea	order 84 descendants

OCCURRENCE DATASETS

- [Artdata](#)
in 2,512,253 occurrences
- [Especimenes INBio](#)
in 2,496,121 occurrences
- [Finnish Entomological Database: Lepidoptera](#)
in 1,766,397 occurrences
- [Biologiezentrum Linz](#)
in 1,290,543 occurrences
- [AntWeb](#)
in 1,225,396 occurrences
- [Snow Entomological Museum Collection](#)
in 984,492 occurrences
- [2,088 more >](#)

CHECKLISTS

- [3i - Typhlocybinae Database](#)
as Insecta
- [Zoological names. A list of phyla, classes, and orders,...](#)
as Insecta Linnaeus, 1758
- [IRMNG Homonym List](#)
as Insecta
- [Index Fungorum](#)
as Insecta
- [Paleobiology Database](#)
as Insecta
- [World Register of Marine Species](#)
as Insecta
- [585 more >](#)

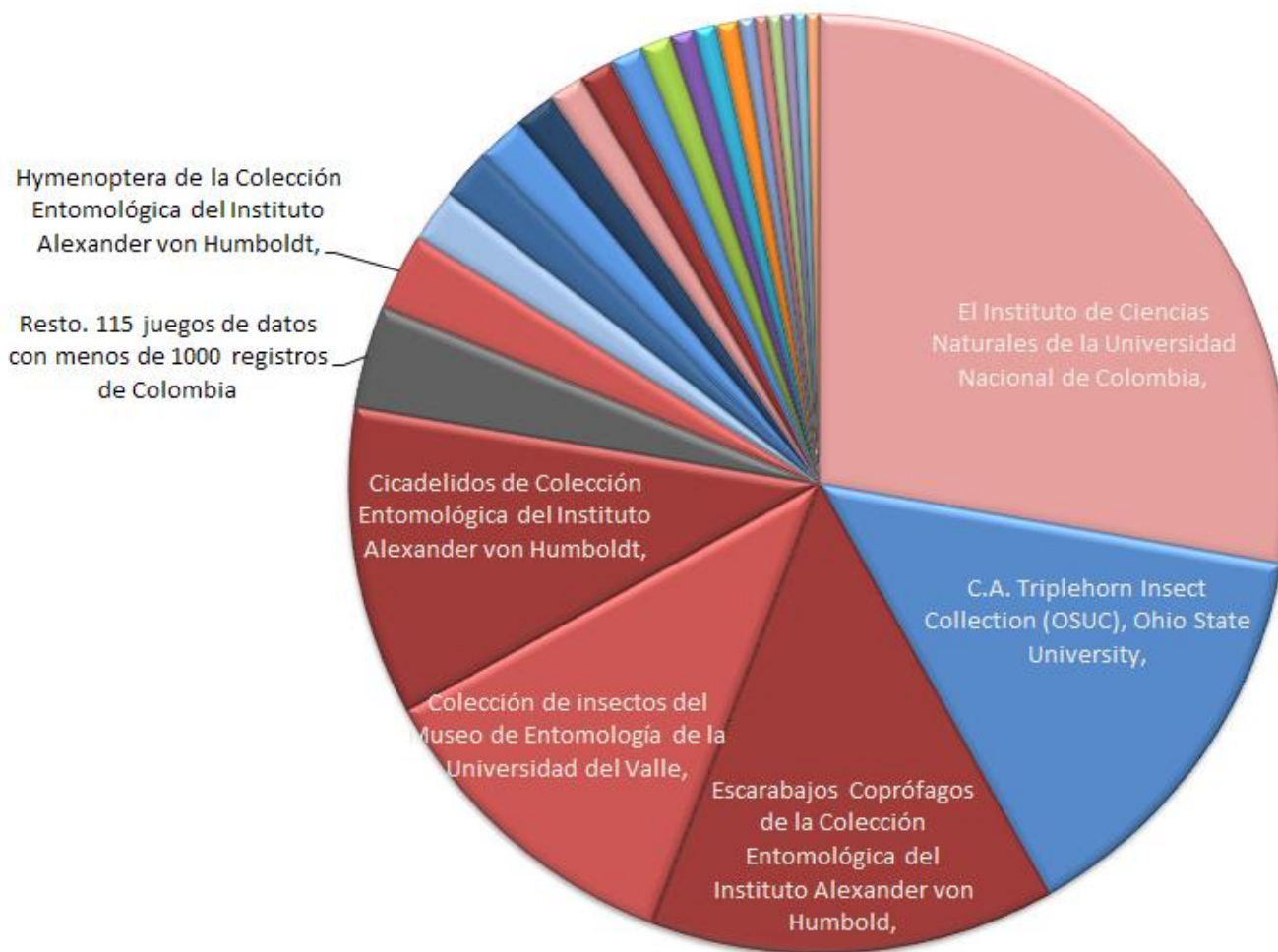
AntWeb

Los datos

Insectos en GBIF: Colombia

259.969 registros

138 juegos de datos ; 23 con más de 1000 registros



Como usar GBIF

- Consultar
 - filtros
- Descargar
 - registrarse
- Visualizar en nuestra web
 - APIs
 - <http://www.gbif.es/Map.html>
 - <http://cdn.gbif.org/v0.9/map/index.html?type=DATASET&key=85b2fcd8-f762-11e1-a439-00145eb45e9a&resolution=1&style=dark>
 - <http://cdn.gbif.org/v0.9/map/index.html?type=TAXON&key=216&resolution=1&style=dark>

http://api.gbif.org/v0.9/map/density/tile?x={x&y={y}&z={z}&type=DATASET&key=85b2fcd8-f762-11e1-a439-00145eb45e9a&layer=OBS_NO_YEAR&layer=SP_NO_YEAR&layer=OTH_NO_YEAR&layer=OBS_1900_1910&layer=SP_1900_1910&layer=OTH_1900_1910&layer=OBS_1910_1920&layer=SP_1910_1920&layer=OTH_1910_1920&layer=OBS_1920_1930&layer=SP_1920_1930&layer=OTH_1920_1930&layer=OBS_1930_1940&layer=SP_1930_1940&layer=OTH_1930_1940&layer=OBS_1940_1950&layer=SP_1940_1950&layer=OTH_1940_1950&layer=OBS_1950_1960&layer=SP_1950_1960&layer=OTH_1950_1960&layer=OBS_1960_1970&layer=SP_1960_1970&layer=OTH_1960_1970&layer=OBS_1970_1980&layer=SP_1970_1980&layer=OTH_1970_1980&layer=OBS_1980_1990&layer=SP_1980_1990&layer=OTH_1980_1990&layer=OBS_1990_2000&layer=SP_1990_2000&layer=OTH_1990_2000&layer=OBS_2000_2010&layer=SP_2000_2010&layer=OTH_2000_2010&layer=OBS_2010_2020&layer=SP_2010_2020&layer=OTH_2010_2020&layer=LIVING&layer=FOSSIL&palette=yellow_reds

Usar GBIF (1/3): Consultas

Lepidoptera
Order in GBIF Backbone Taxonomy
Animalia › Arthropoda › Insecta

13.706.095 Occurrences | 263.661 Species
[View occurrences](#)

Georeferenced data

VIEW RECORDS
All 11.973.040 | In viewable area

DISTRIBUTIONS
Text based distributions present in some sources.

13.706.095 Occurrences
[Download](#)

Search occurrences
Use the filters to customize search results
190 Occurrences
[Download](#)

190 results

Configure Add a filter

LOCATION: -75.750732 4.828259...-76.300048 5.200364 -75.750732 4.828259...-76.300048 5.200364

SCIENTIFIC NAME: Lepidoptera

	LOCATION	BASIS OF RECORD	DATE
891076523 - Cat. 66813 Lepidoptera Published in iNaturalist research-grade observations	Colombia 5,53-75,96	Human Observation	4 / 2012
891075483 - Cat. 63798 Arctiidae Leach, 1815 Published in iNaturalist research-grade observations	Colombia 5,49-75,89	Human Observation	4 / 2012

LOCATION

SHOW ONLY RECORDS THAT ARE
GEOREFERENCED NOT GEOREFERENCED

BOUNDING BOX/POLYGON

SHOW ONLY RECORDS
WITH NO KNOWN COORDINATE ISSUES WITH KNOWN COORDINATE ISSUES

Published in iNaturalist research-grade observations


Scientific name
Location
Country
Publishing country
Collector
Record number
Basis of record
Dataset
Collection date
Last modified in GBIF
Year
Month
Catalogue number
Institution code
Collection code
Elevation
Depth
Type status
Multimedia types
Issues

Animalia Arthropoda Insecta [View occurrences](#)

Information

Overview

FULL NAME Lepidoptera	TAXONOMIC STATUS Accepted order
COMMON NAMES butterflies eq (1) Lepidoptera (Butterfly / Moth) eq (1) moths eq (1) more >	ACCORDING TO The Catalogue of Life, 3rd January 2011

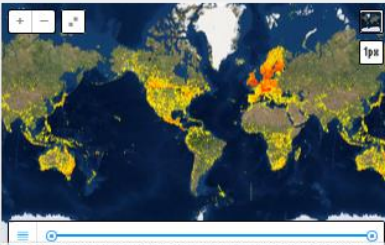


EXTERNAL LINKS

- Encyclopedia of Life
- Catalogue of Life
- Biodiversity Heritage Library

GBIF ID 797

Georeferenced data



VIEW RECORDS
All 11,973,040 | [in viewable area](#)

DISTRIBUTIONS
Text based distributions present in some sources.

Links: 1. Earth Desktop, FAO, IGDAA, DigitalGlobe, GeoEye, IGNAC, USDA, USDA, ARS, GeoEye, AeroGRID, IGN, IGP, Swirexcel, and the GIS User Community


Subordinate taxa

- Acanthopteroideae superfamily: 1 descendant
- Agathopteroideae superfamily: 4 descendants
- Alucoideae superfamily: 235 descendants
- Axiotoideae superfamily: 31 descendants
- Bombycoideae superfamily: 10,233 descendants
- Calliopteroideae superfamily: 83 descendants
- Choreutoideae superfamily: 476 descendants
- Copromorphoideae superfamily: 452 descendants

Classification

KINGDOM: Animalia
PHYLUM: Arthropoda
CLASS: Insecta
ORDER: Lepidoptera
FAMILY: 204
GENUS: 27,146
SPECIES: 263,661

[complete classification](#)



<http://www.gbif.org/occurrence/891076611>

GBIF 891076611

Human Observation of *Mythimna unipuncta* (Fabricius, 1809) recorded on 07-Feb-2012
from [Naturalist](#) research-grade observations database

Information

INTERPRETATION ISSUES

GBIF found issues interpreting the [verbatim content](#) of this record:


- Coordinates rounded
- Geospatial datum assumed WGS84
- Country derived from coordinates



Location

LOCALITY
Colombia
115.20474, 9.28851

GEOGRAPHIC CLASSIFICATION
Colombia



Mythimna unipuncta

LICENCE
No license given

Identification details According to GBIF Backbone Taxonomy

IDENTIFIED AS SPECIES <i>Mythimna unipuncta</i> (Fabricius, 1809)	IDENTIFIED 17-Feb-2012
TAXONOMIC CLASSIFICATION Animalia · Arthropoda · Insecta · Lepidoptera · Noctuidae · Mythimna	IDENTIFICATION ID 66255

Occurrence details

RECORDED
07-Feb-2012 2:58:00 by [lunaz](#)

Source details

DATA PUBLISHER iNaturalist.org	GBIF ID 891076611
Record details on publisher site	CATALOG NUMBER 66255
INSTITUTION CODE iNaturalist	
DATASET iNaturalist research-grade observations	
DATASET NAME iNaturalist research-grade observations	
COLLECTION CODE Observations	

iNaturalist research-grade observati...

Occurrence dataset published by [iNaturalist.org](#)

322,133 Occurrences [View occurrences](#)

Information Stats Activity

Summary

FULL TITLE
iNaturalist research-grade observations

DESCRIPTION
Research-grade observations from iNaturalist.org

PURPOSE
iNaturalist.org is a website where anyone can record their observations from nature. Members record observations for numerous reasons, including participation in citizen science projects, class projects, and personal fulfillment.

TEMPORAL COVERAGES
Date range: 27-dic-0999 - 03-jul-2014

LANGUAGE OF DATA

iNaturalist.org
PUBLISHED BY
iNaturalist.org
PUBLICATION DATE
03-Jul-2014
REGISTRATION DATE
09-Feb-2012
SERVED BY
HTTP Installation
LINKS
Dataset homepage
ALTERNATIVE IDENTIFIERS
GBIF Portal ID
[http://data.gbif.org/datasets/...](http://data.gbif.org/datasets/)
EXTERNAL DATA
Darwin Core Archive
METADATA DOCUMENTS
GBIF annotated version (EML) [\(1\)](#)




320,165 Georeferenced data

VIEW RECORDS
All records | [In viewable area](#)


DESCRIPTION
Bounding Box

ABOUT
[What does this map show?](#)


[iNaturalist.org](#) Observations · Species · Projects · Places · Guides People



Explore!
Your World!



Learn!
About Life!



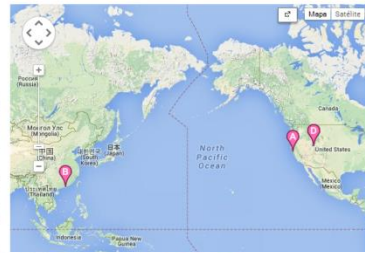
Record!
Add Observations!

Welcome to **iNaturalist.org**, where you can **record** what you see in nature, **meet** other nature lovers, and **learn** about the natural world.

[Learn More >](#)
[Sign Up!](#)

Recent additions

- Common Merganser**
Observer: bosca
Date: June 15, 2014
Date added: July 10, 2014
View > 2 photos >
- 藍尾蜂**
Observer: sunnetchan
Date: July 10, 2014
Date added: July 10, 2014
View >
- Thistles**
Observer: danostighe
Date: July 9, 2014
Date added: July 10, 2014
View > 2 photos >



White-Spook *Mythimna unipuncta*
Observer: lunaz
Date: April 7, 2012 07:56 PM CDT
Place: (Somewhere...)
1 ID | [Research Grade](#) View >

<http://www.inaturalist.org/observations/66282>

Usar GBIF (2/3): Descargas



Account

Username *

pacopando

Password *

.....

Francisco Pando

User account and personal settings

Account Downloads

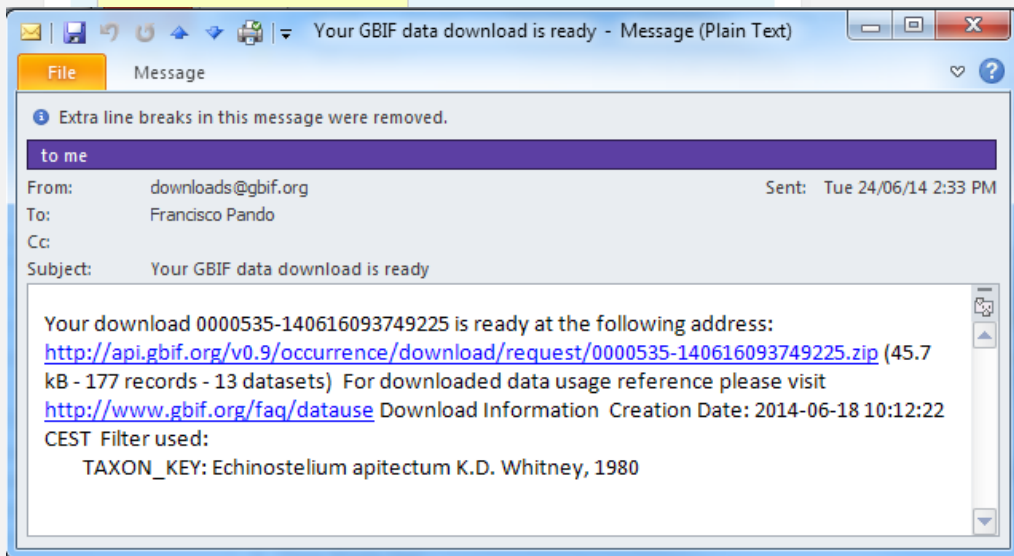
Your Downloads

FILTER	GEOREFERENCED true
TAXON	Plantae POLYGON((-5.077056 43.350148,-5.034484 43.347152,-5.000152 43.351146,-4.860076 43.323179,-4.824371 43.309191,-4.757080 43.296198,-4.722747 43.313188,-4.693908 43.326176,-4.669189 43.328174,-4.615631 43.309191,-4.632110 43.275205,-4.685418 43.244202,-4.586791 43.211181,-4.603271 43.157108,-4.617004 43.137089,-4.673309 43.152099,-4.718627 43.167125,-4.741973 43.170130,-4.773559 43.149093,-4.828491 43.143082,-5.028991 43.181147,-5.071563 43.180145,-5.068669 43.203173,-5.107269 43.234197,-5.136108 43.276205,-5.127868 43.324176,-5.114135 43.347152,-5.077056 43.350148))
LOCATION	
SPATIAL ISSUES	false
STATUS	Ready for download (3.2 MB 14.022 records - 43 datasets)
CREATED	18-jun-2014

FILTER	GEOREFERENCED true
COUNTRY	Spain
TAXON	Festuca hystrix Boiss. POLYGON((-3.295898 43.834526,-11.030273 43.197167,-9.580078 36.703659,-5.932617 36.102376,-1.274414 36.844460,2.373046 39.130060,3.779296 42.714732,-3.295898 43.834526))
LOCATION	
SPATIAL ISSUES	false
STATUS	Ready for download (0 B 2.975 records - 26 datasets)
CREATED	18-jun-2014

FILTER	TAXON Echinostelium apitectum K.D. Whitney, 1980
STATUS	Ready for download (45.7 kB 177 records - 13 datasets)
CREATED	18-jun-2014

FILTER	GEOREFERENCED true
TAXON	Insecta
DATASET	!Naturalist research-grade observations
SPATIAL ISSUES	false
STATUS	Ready for download (19.0 MB 51.231 records - 1 datasets)
CREATED	29-may-2014



Descargas de GBIF: "Darwin Core Archive" (.zip)

The image shows a WinRAR window displaying the contents of a Darwin Core Archive (DCA) zip file. The main window shows a directory structure with a 'dataset' folder and several XML files. A secondary window shows a detailed list of files, and a third window shows the XML content of a file.

Annotations:

- Metadatos de datasets:** Points to the 'dataset' folder in the main window.
- Metadatos:** Points to the 'meta.xml' file in the main window.
- Citación:** Points to the 'citations.txt' file in the main window.
- Derechos:** Points to the 'rights.txt' file in the main window.
- Datos:** Points to the 'occurrence.txt' file in the main window.

Main Window File List:

Nombre	Tamaño	Comprimido	Tipo
dataset			Carpe
meta.xml	34,058	3,689	Archiv
metadata.xml	8,782	3,052	Archiv
citations.txt	4,562	1,777	Docu
multimedia.t	134	99	Docu
occurrence.txt	10,196,927	1,726,21	Docu
rights.txt	5,758	1,0	Docu
verbitim.txt	7,508,572		Docu

Secondary Window File List:

Nombre	Tamaño	Comprimido	Tipo
..			Carpet
0afba960-be3b-4202-a7de-736ae05aec9e.xml	1,761	630	Archivo XML
1c334170-7ed1-11df-8c4a-0800200c9a66.xml	1,612	730	Archivo XML
7b74be32-f762-11e1-a439-00145eb45e9a.xml	7,173	2,907	Archivo XML
7b904404-f762-11e1-a439-00145eb45e9a.xml	1,037	496	Archivo XML
85b7c056-f762-11e1-a439-00145eb45e9a.xml	4,467	1,673	Archivo XML
85b69b0e-f762-11e1-a439-00145eb45e9a.xml	1,602	717	Archivo XML
88af1796-f762-11e1-a439-00145eb45e9a.xml	1,578	704	Archivo XML
90ae13f0-288f-4108-b741-ac8a0f9e0878.xml	5,906	1,970	Archivo XML
95e9f2dc-f762-11e1-a439-00145eb45e9a.xml	1,617	796	Archivo XML
96b7961a-f762-11e1-a439-00145eb45e9a.xml	2,003	884	Archivo XML
96bc5614-f762-11e1-a439-00145eb45e9a.xml	1,303	653	Archivo XML
96bd7e90-f762-11e1-a439-00145eb45e9a.xml	1,425	663	Archivo XML
834a4794-f762-11e1-a439-00145eb45e9a.xml	3,973	1,365	Archivo XML
834b7330-f762-11e1-a439-00145eb45e9a.xml	56,161	5,628	Archivo XML
834dcb62-f762-11e1-a439-00145eb45e9a.xml	1,852	938	Archivo XML
835d30de-f762-11e1-a439-00145eb45e9a.xml	4,364	2,033	Archivo XML
865df020-f762-11e1-a439-00145eb45e9a.xml	2,490	1,151	Archivo XML
962ccea-f762-11e1-a439-00145eb45e9a.xml	4,192	1,922	Archivo XML
962f59bc-f762-11e1-a439-00145eb45e9a.xml	2,154	818	Archivo XML
6360a554-f762-11e1-a439-00145eb45e9a.xml	3,876	1,566	Archivo XML
7133ff0a-f762-11e1-a439-00145eb45e9a.xml	1,067	534	Archivo XML
8346c3a8-f762-11e1-a439-00145eb45e9a.xml	1,571	740	Archivo XML
8353c5bc-f762-11e1-a439-00145eb45e9a.xml	1,623	744	Archivo XML
8354ecee-f762-11e1-a439-00145eb45e9a.xml	1,217	587	Archivo XML

XML Content (Partial):

```
<surName>GBIF Download Service</surName>
</individualName>
</metadataProvider>
</associatedParty>
<electronicMailAddress>marty.sachs@ars.usda.gov</electronic
<role>CONTENT_PROVIDER</role>
</associatedParty>
</associatedParty>
<individualName>
  <givenName>Francisco</givenName>
  <surName>Javier Hernandez Garcia</surName>
```

Usar GBIF (3/3): Visualizar en nuestra web

<http://www.gbif.es/Map.html>

Parámetros:

- type – obligatorio – TAXON, DATASET, COUNTRY, PUBLISHER
- key – obligatorio – taxon_key, uuid del dataset/publisher o el ISO country code.
- resolution – opcional (por defecto =1, {1,2,4 and 16}) Densidad
- layer - opcional – Nos permite definir las capas de información que queremos que sean visualizadas.
- Style – dark, light, satellite
- palette – opcional – Permite seleccionar el juego de colores con el cual queremos que se coloren las cantidades de datos mostrados.
- saturation & hue: Cuando se usan paletas de colores, se puede especificar el nivel de saturación y 1.

	Record count					
	0-10	10-100	100-1000	1000-10000	10000-100000	100000+
yellows_reds	Yellow	Orange	Red-Orange	Red	Dark Red	Black
blues	Light Blue	Blue	Dark Blue	Very Dark Blue	Black	Black
greens	Light Green	Green	Dark Green	Very Dark Green	Black	Black
greys	Light Grey	Grey	Dark Grey	Very Dark Grey	Black	Black
oranges	Light Orange	Orange	Dark Orange	Very Dark Orange	Black	Black
purples	Light Purple	Purple	Dark Purple	Very Dark Purple	Black	Black
reds	Light Red	Red	Dark Red	Very Dark Red	Black	Black

Usar GBIF (3/3): Visualizar en nuestra web

APIs: <http://www.gbif.org/developer>

- <http://cdn.gbif.org/v0.9/map/index.html?type=DATASET&key=85b2fcd8-f762-11e1-a439-00145eb45e9a&resolution=1&style=dark>
- <http://cdn.gbif.org/v0.9/map/index.html?type=TAXON&key=216&resolution=1&style=dark>

Como contribuir a GBIF

- Tres vías:
 - Ciencia ciudadana
 - Colecciones
 - Investigación

Contribuir a GBIF: Ciencia ciudadana

<http://conabio.inaturalist.org/>

Captura con tu cámara a las plantas, hongos y animales de nuestro país megadiverso. Miles de especies de musgos, helechos, pinos, margaritas, ceibas, pastos, corales, caracoles, medusas.

Comparte tus fotos de plantas, hongos y animales y contribuye al entendimiento de las especies; descubre las observaciones de otros participantes, y las especies de distintos LUGARES.

Conoce a las especies mexicanas: **PLANTAS, ANIMALES, HONGOS y MICROORGANISMOS**; apoya y recibe identificación; conoce a las que es

<http://www.herpetologicodeantioquia.org/index.php/antioquia-s-herps>

Home | People | Museum | Research | Services | Courses | **Antioquia's Herps**

Hyloscirtus sp.
Foto: Mauricio Rivera-Correa

Bioexplorador



INBio
COSTA RICA

<http://bioexplorador.inbio.ac.cr/>



iDescubra!
Su País



iAprenda!
Acerca De La Vida!



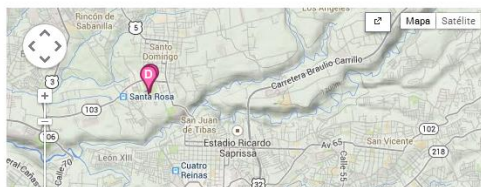
iComparta!
¡Agregar Observaciones!

¡Bienvenidos!
INBio lo invita a utilizar este portal de información sobre biodiversidad, en el que podrá compartir lo que observa en la naturaleza, aprender de ella e intercambiar información con otros ciudadanos naturalistas.

Aprenda más »
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Fecha: May 26, 2014



Amphibians and Reptiles of Antioquia

Aiming to study and preserve the amphibians and reptiles that occur in Antioquia, the GHA members contribute to the project "Amphibians and Reptiles of Colombia". The project is an "online museum" with georeferenced photos and is administered by the [Asociación Colombiana de Herpetología](#). Here, you can keep track of the most recent observations from Antioquia added to the project.

If you want to become part of the project, add new observations and search for observations beyond Antioquia, please visit "[Amphibians and Reptiles of Colombia](#)" powered by [iNaturalist](#).

Add Observations Unique Species Observed in Colombia: 420 powered by **iNaturalist.org**

Observations within Colombia



Direction
Vivian P. Pérez
Brian C. Bock
Juan M. Daza

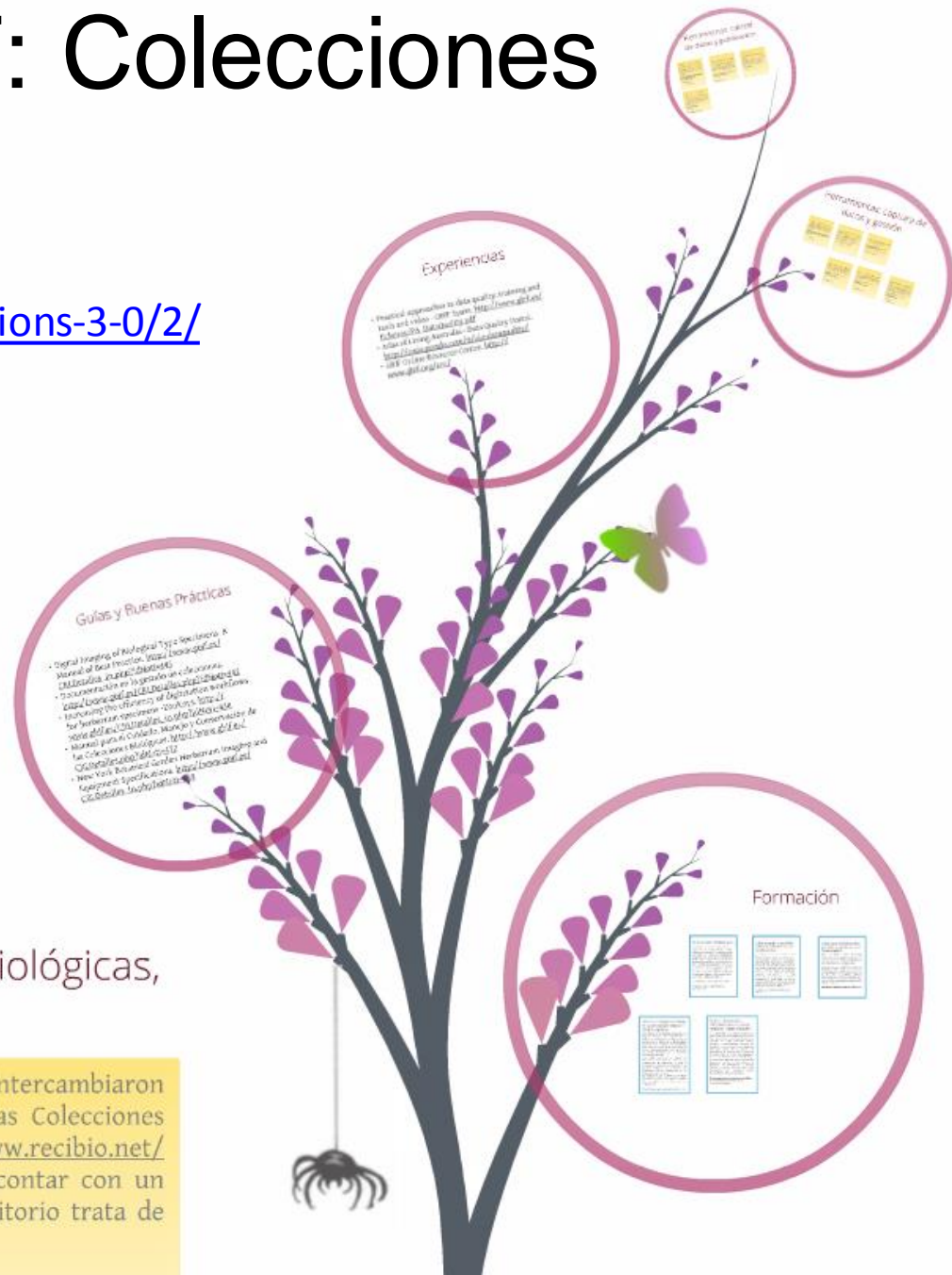
About Us
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049197	
Today	55
Yesterday	105
This Week	533
Last Week	47766
This Month	1132
Last Month	3455
All days	49197

Contribuir a GBIF: Colecciones

<http://www.recibio.net/recursos/rrcb/>

<http://www.recibio.net/biological-collections-3-0/2/>



Repositorio de Recursos para Colecciones Biológicas,
RRCB

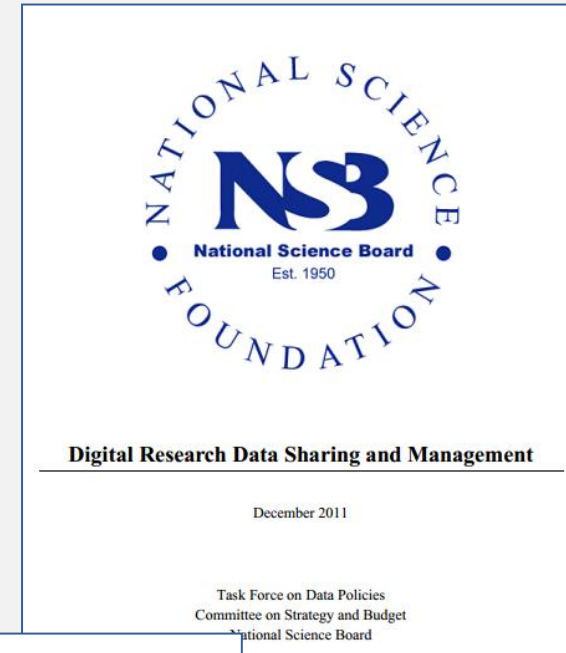
Un grupo de profesionales y expertos iberoamericanos deliberaron e intercambiaron conocimientos en Colombia, 2012, sobre la próxima frontera de las Colecciones Biológicas para hacer Ciencia y beneficiar a la Sociedad (<http://www.recibio.net/colecciones-biologicas-3-0/>). Este grupo identificó la necesidad de contar con un acceso sencillo y dinámico a recursos para colecciones. Este repositorio trata de responder a esa demanda.

Contribuir a GBIF: Investigación

- Cambio cultural:
 - a) Que sea una exigencia de las políticas científicas
 - b) que la publicación de datos primarios sean considerados un mérito científico
 - Hacen falta ciertos **elementos técnicos**:
 - Un sistema de citación
 - Un marco de licencias
 - Un sistema de referencia: identificadores únicos, persistentes, resolvibles
- Hace falta otro **cambio de cultura**
 - Reusar
 - Citar, metadatar
 - ... reconocer
 - Cambiar las reglas
- >>> entretanto, lo único que cuenta en las publicaciones en revista con factor de impacto

Que los datos se publiquen: requerimientos, e incentivos para científicos

- Cambio cultural:
 - a) Que sea una exigencia de las políticas científicas
 - => **reconocimiento, mérito científico**
 - b) Cambiar: las reglas
 - <http://www.nsf.gov/nsb/publications/2011/nsb1124.pdf>
 - http://ec.europa.eu/research/society/document_library/pdf06/recommendation-access-and-preservation-scientific-information_en.pdf



Que los datos se publiquen: requerimientos e incentivos para científicos

- Mientras llega, hacen falta ciertos **elementos técnicos** que facilite el reusar y citar
 - Un sistema de citación
 - Un marco de licencias
 - Un sistema de referencia (identificadores únicos, persistentes resolvibles)
- Hace falta **más cambio de cultura**
 - Reusar
 - Citar, “metadatar”
 - ... reconocer

Que los datos se publiquen: requerimientos, e incentivos para científicos

- Hoy por hoy, lo único que cuenta es las publicaciones en revistas con factor de impacto, y de ahí el concepto de “data paper”

Data Paper:

“A specific, stand-alone publication describing a particular dataset or a collection of datasets”

Una publicación independiente que describe un juego de datos o una colección de ellos (publicados en línea)

Que se está haciendo (1)

Publicar los datos de manera citable y verificable:
“artículos de datos”, revistas de datos:



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Data Journals: Incentivizing Research Data Dissemination

<http://connect.clir.org/blogs/katherine-akers/2013/12/12/data-journals-incentivizing-research-data-dissemination>

– Pensoft data papers:

<http://biodiversitydatajournal.com/>

– Nature Group: *Scientific Data*.

<http://www.nature.com/sdata/>

Narwade *et al.* (2011). Literature based species occurrence data of birds of northeast India. *Zookeys* 150: 407-417.

De Egea *et al.* (2011). Checklist of vascular plants of the Department of Ñeembucú, Paraguay. *Phytokeys* 9: 15-179

Van Landuyt *et al.* (2012). Florabank1: a grid-based database on vascular plant distribution in the northern part of Belgium (Flanders and the Brussels Capital region). *PhytoKeys* 12: 59-67.

Danis *et al.* (2012). Antarctic Starfish (Echinodermata, Asteroidea) from the ANDEEP3 expedition. *Zookeys* 185: 73-78.

Luo *et al.* (2011). Database of diazotrophs in global ocean: abundance, biomass and nitrogen fixation rates. *Earth System Science Data* 4: 47-73.

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 | D | C | C because good research needs good data

The Rise of the Data Journal

IASSIST, Cologne, Germany, May 31, 2013

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Funded by: 

IASSIST, Cologne, May 2013.

Para concluir y discutir

- GBIF no da respuestas, da acceso a datos que sirvan de base para obtener respuestas.
- Entender GBIF, contribuir a sus sostenibilidad (la de la gente)
- Los datos son el combustible de la ciencia del siglo XIX
- “Queremos hacer poesía, y tenemos que aprender el abecedario”

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