

Construyendo un sistema de manejo de datos para una estación biológica

Paul Foster

Reserva Ecológica Bijagual



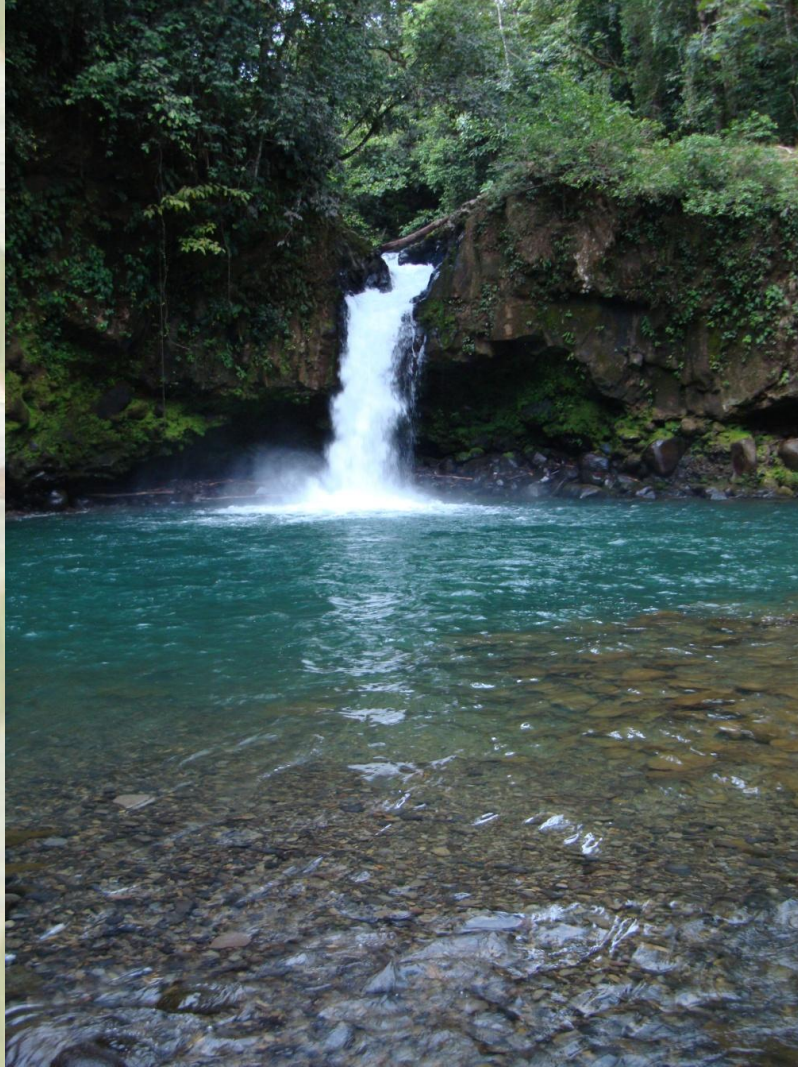
Estaciones Biológicas



Facilidades o instituciones que se dedican principalmente a la investigación: con un componente geográfico, de procesos ecológicos, y por varios investigadores por el largo plazo

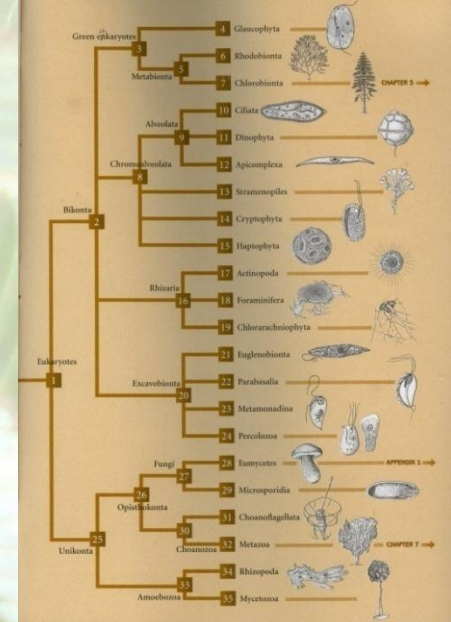
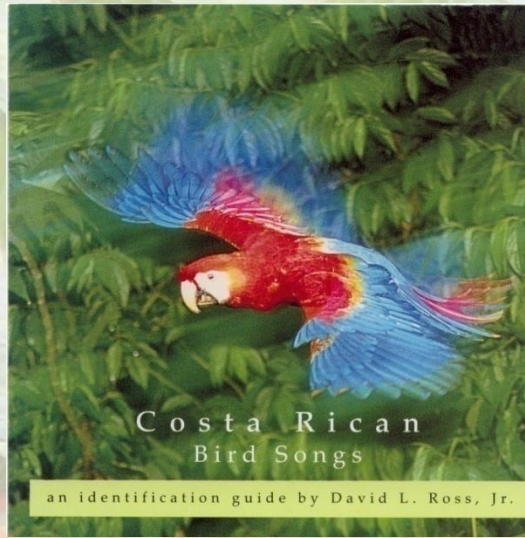
Fuente: Billick, I., I. Babb, B. Kloeppel, J. C. Leong, J. Hodder, J. Sanders, and H. Swain. 2013. Field Stations and Marine Laboratories of the Future: A Strategic Vision. National Association of Marine Laboratories and Organization of Biological Field Stations. <http://www.obfs.org/fsml-future>.

Reserva Ecológica Bijagual



- Fundado en 2001
- Manejado por una ONG
- 286 hectáreas
 - Bosque Manejado (180 has.),
 - Reforestación (30 has)
 - Regeneración Natural (56 has.)
 - Bosque Primario (6 has.),
- Especies
 - Aves (266 spp.) Reptiles (44 spp.)
 - Anfibios (23 spp.) Mamíferos (70 spp.) Plantas (~2000).
- Ríos Bijagual y Tirimbina, varias quebradas y nacientes.

Fuentes de Datos



ELSEVIER

Mammalian Biology
Zeitschrift für Säugetierkunde

www.elsevier.com/locate/mambio



SHORT COMMUNICATION

Observations of cavity-roosting behavior in Costa Rican *Lophostoma brasiliense* (Chiroptera: Phyllostomidae)

H.A. York^{a,*}, P.F. Foster^b, M.F. Jones^c, W.H. Schwarz^c, A.L. Vezeau^c, M.S. Zerwekh^c



Costa Rica Resident Bands 2010: Número total de registros de bandas									
Year	Band Size	Bander	Banding Code	Band Number	Species Code	Month	Day	Station	Location
2011	C	GLF	C	300201	WBWO	12	30	REBS	F
2011	A	GLF	A	11900	CSWA	12	30	REBS	E
2011	D	GLF	D	504301	PAST	12	30	REBS	D
2011	C	GLF	C	300202	WCOM	12	30	REBS	D
2011	A	GLF	A	11901	OBFL	12	30	REBS	E

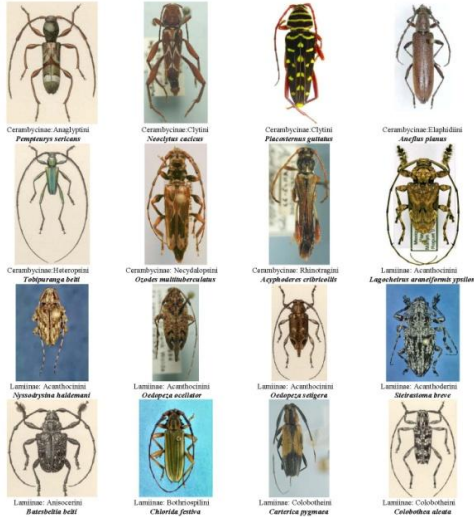
Bird	Band	Net	Wing	Tarsus
Wedge-billed Woodcreeper	C300208	D		
Wood Thrush	D504303	A'	105	33.1
Variable Seedeater	A11902	E	53	16.3
White-ruffed Manakin	A11903	D	55	15.8
Long-tailed Hermit	A11904	E		
White-ruffed Manakin	A11904	E	58	16.5
Long-tailed Hermit		E		
Ovenbird	C300211	D	86	21.0
Green Honeycreeper	C300212	A'	70.0	18.2
Chestnut-sided Warbler	A11905	A'	60.0	16.7



Repartiendo los Datos

Reserva Ecológica Bijagual de Sarapiquí, COSTA RICA Draft: Cerambycidae

Image Credits: American Museum of Natural History, Larry G. Beznak, Biología Central Americana, California Academy of Sciences, Florida State Collection of Arthropods, J. P. Roques, & Antonio Santos-Silva
Design: Paul Foster, R. J. Donham, R. B. Foster, & M. R. Metz
Acknowledgements: Ann Ray, Ian Swift, & Larry G. Beznak
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Lista de Especies de Mamíferos

List of Mammals Species

actualizado el junio del 2012 / updated June 2012

Didelphimorphia

Didelphidae

Caluromys derbianus
Didelphis marshalli
Marmosa zeldoni
Philander opossum

Pilosa

Mymecophagidae
Tamandua mexicana
Megalonychia
Choloepus hoffmanni

Cingulata

Dasyopidae
Cassouia centralis
Dasyus novemcinctus

Chiroptera

Emballonuridae
Centronycteris centralis
Rhynchonycteris naso
Saccopteryx bilineata
Saccopteryx leptura

Noctuidae

Noctilio albiventris
Mormoopidae
Pteronotus parnellii

Phyllostomidae

Phyllostomus
Lonchorhina aurita
Lophotoma brasiliense
Lepidoptoma silvicolan
Micronycteris microtis
Micronycteris hirsuta

American Opossums

Central American Woolly Opossum
Common Opossum
Zeldoni's Mouse Opossum
Gray Four-eyed Opossum

Anteaters

Northern Tamandua
Slots
Hoffmann's Two-toed Sloth

Armadillos

Northern Naked-tailed Armadillo
Nine-banded Armadillo

Sac-winged Bats

Shaggy Bat
Proboscis Bat
Greater White-lined Bat
Lesser White-lined Bat

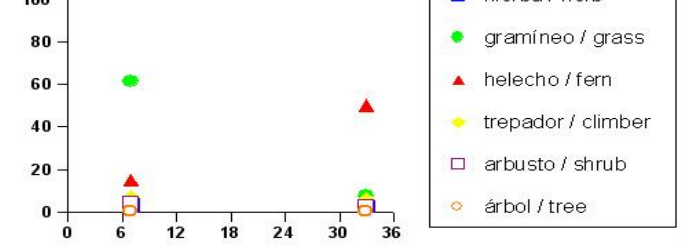
Fishing Bats

Lesser Fishing Bat
Leaf-chinned Bats
Common Mustached Bat
Leaf-nosed Bats

Leaf-nosed Bats

Common Sword-nosed Bat
Pygmy Round-eared Bat
White-throated Round-eared Bat
Common Big-eared Bat
Hairy Big-eared Bat

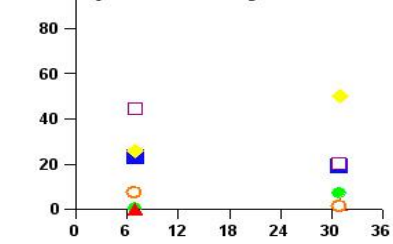
a) Pastos* / Grass-Herb*



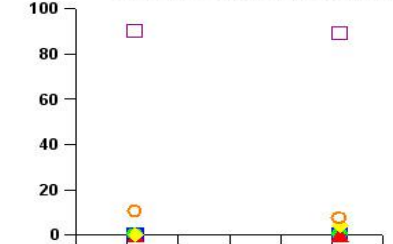
*Nota: Los porcentajes del mes 33 de Pastos no suma a 100% debido a la gran cantidad de suelo desnudo y material muerto.

Note: Month 33 of the Grass-Herb Layer does not sum to 100% due to the high percentage of bare soil and dead organic material.

b) Arbusto-Bejuco / Vine-Shrub



c) Leñosas / Large Shrub-Tree



Meses desde abandonar
Months since abandoned



Impactos sociales



Investigaciones realizadas

Pentaclethra macroloba

- Tesis de licenciatura
- OET 11-3 Curso
- Xavier Univ. Curso
- Occidental College REU



Encuesta



Resultados

Bases de datos globales o continentales

Encyclopedia of Life <http://eol.org/>

iNaturalist <http://www.inaturalist.org/>

Guías de Discover Life IDnature: <http://www.discoverlife.org/mp/20q>

International Barcode of Life Project field data entry database
<http://ibol.org/wp-content/uploads/2010/02/iBOL- data v300.xls.zip>

Census of Marine Life (<http://www.coml.org/>)

Atlas of Living Australia <http://www.ala.org.au/>.

Descubrir su región <http://biocache.ala.org.au/explore/your-area> .

Código disponible a: <http://code.google.com/p/ala/>

Resultados II

Laboratorios Marinos

Shoals Marine Laboratory: http://www.sml.cornell.edu/sml_shoals_mobile.html

,
Bamfield Marine Sciences Centre <http://biodiv.bms.bc.ca/>

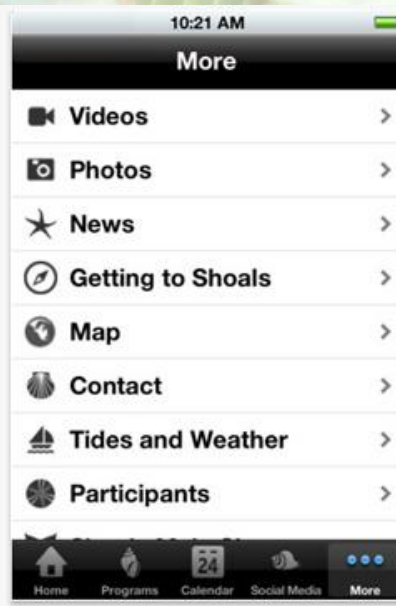
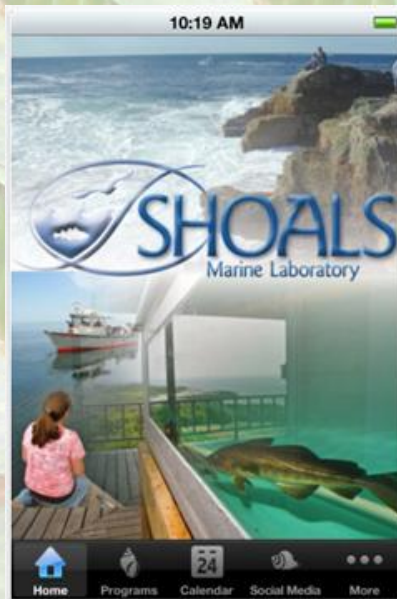
Estaciones Biologicas Terestres

Belize Foundation *for* Research & Environmental Education: <http://www.bfreebz.org/>

Area de Conservacion Guanacaste:
<http://janzen.sas.upenn.edu/caterpillars/database.lasso>

Árboles sembrados en la amazonia de Péru <http://www.caminoverde.org/resources>

Aplicaciones para celulares



Aplicaciones del web

**Bamfield Marine Sciences Centre**
Biodiversity Database

Home | Collections | Observations | Reports | Help | Contact Us | Login

Welcome to the BMSC Biodiversity Database

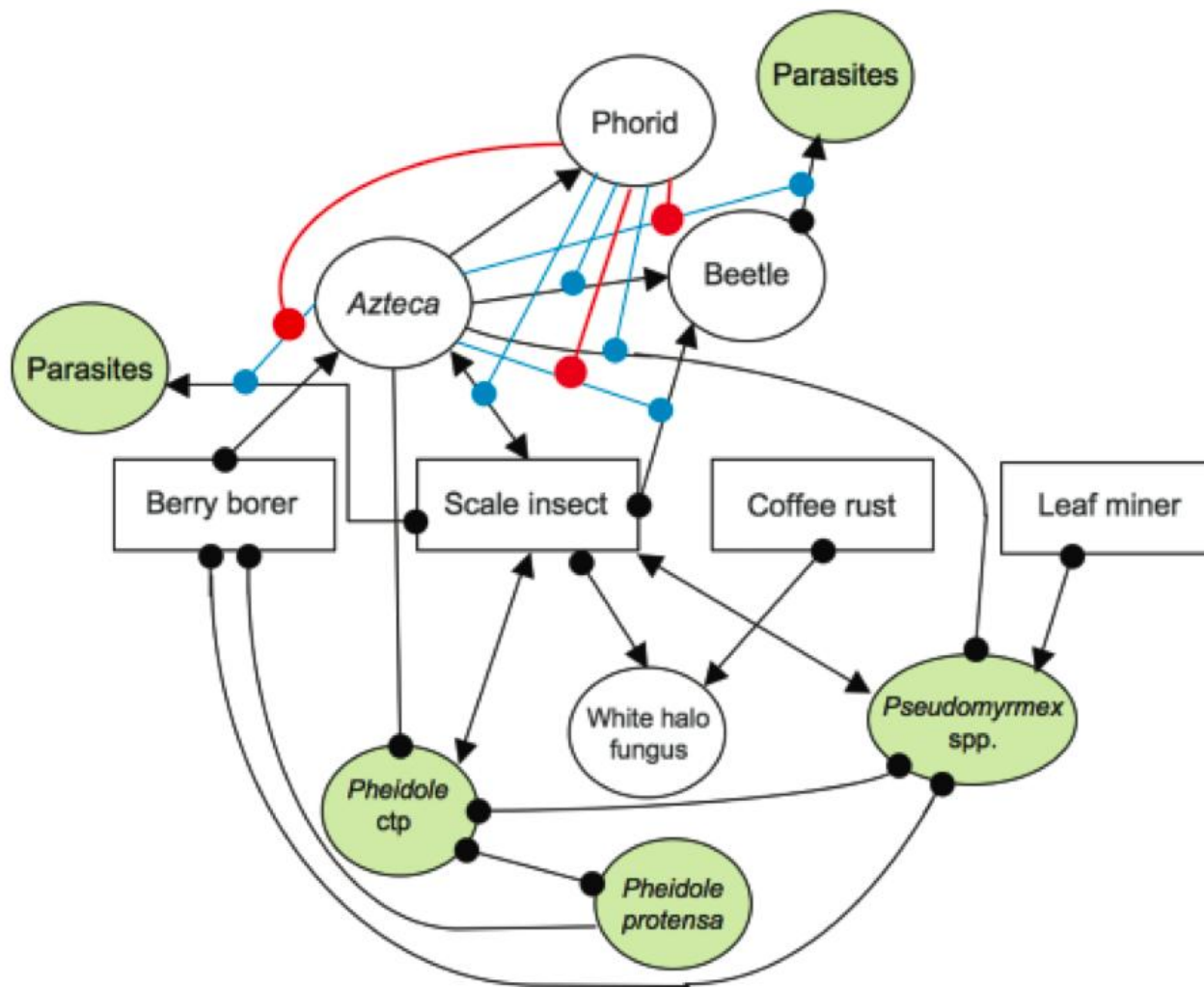
- This database supports research and teaching at BMSC.
- Data covers the period 1972 to present, and include information about plants and animals in terrestrial, freshwater and marine environments of Barkley Sound.
- Animals collected for research or teaching must be recorded in this database.
- Noteworthy observations, both positive and negative, are encouraged.

Collections	Record what you collected
Observations	Record what you saw, or looked for but didn't find
Reports	List species known to occur in Barkley Sound, as well as where and when they were collected or observed. Find BMSC publications about specific organisms.
Help	Instructions for recording collections and observations
Contact Us	Need access or have information you think would be helpful?



Bamfield Marine Sciences Centre
100 Pachena Rd, Bamfield, BC
Canada V0R 1R0

Interacciones entre especies



Fuente: Ivette Perfecto, John Vandermeer, y colegas

Aplicaciones de tablet

iPad 9:41 AM

Google

Reserva Ecológica Bijagual de Sarapiquí



Chlorophanes spiza
Green Honeycreeper
Mielero verde

[Datos](#) [Referencias](#)

Interacciones

Alimentos
Conostegia subcrustulata
Ficus citrifolia
Orthoptera

Parásitos
Leucocytozoon sp.



Políticas para Estaciones



Beneficios



- Herramientas para la educación ambiental
- Planificación para investigadores, estudiantes y profesores
- Manejo de la Reserva

Gracias!

Reserva Ecológica Bijagual



R.E.B.S.

www.bijagual.org

pfoster@bijagual.org