



iabin

Inter-American Biodiversity Information Network
Red Interamericana de Información sobre Biodiversidad
Rede Interamericana de Informação sobre Biodiversidade
Réseau Interaméricain d'Informatio sur la Biodiversité



**IABIN Technical Working Group Meeting
Knoxville, TN
August 2010**

**Ben Wheeler
Mike Frame**

IABIN Catalog



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Inter-American Biodiversity Information Network



Within Results

Sort by:

Search Text: protected area

- ALL Results (853)
- Datasets and Information Systems (4)
- Images (2)
- Internet Map Services (20)
- Laws and Regulations (3)
- Museum Collections (0)
- Organizations (3)
- Publications (638)
- Species Information (6)
- Tools and Software (0)

IABIN Resources

Results from your search: 853 Showing: 1 - 20

- 1 [Economic Values of Protected Areas - Guidelines for Protected Area Managers.](#)
Gives an overview of how the economic values of protected areas can be assessed, providing new insights and inform the debate. The case studies identify those sites where protecting the environment h
- 2 [Protected area network in Indian Himalayan region: Need for recognizing values of low profile protected areas](#)
In the aftermath of Convention on Biological Diversity and Caracas Congress on Parks (1992), maintenance and extension of the network of protected areas (PAs) has received impetus across the globe. In
- 3 [Towards Decolonisation of Australia's Protected Area Management: the Nantawarrina Indigenous Protected Area Experience](#)
Management of Australia's National Parks and Protected Areas originally developed according to the United States' "Yellowstone" model. Aimed primarily at preserving "wilderness" areas, this form of pr
- 4 [Bahamian protected areas Part II: Developing a marine protected-area system](#)
The world has inherited a masterpiece - the Bahamas Archipelago and its surrounding waters - and protected areas worthy of any nation. However, the Bahamas that early European settlers disenfranchised
- 5 [International protected areas previous to year 2000, polygon dataset from the World Database of Protected Areas \(WDPA-2003\)](#)
International Protected Areas established by the year 2000. The coverage has been generated from data extracted from the World Database of Protected Areas as compiled on the 12th of November 2003. Protected areas (PA's) have been selected from...
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- 7 [Cousin Island Special Reserve. A case study of marine protected area management area in partnership with an NGO](#)
The island has been managed by the owners, BirdLife International, since January 1998 through its country office. Management authority is provided for by national legislation and implemented in consul
- 8 [Protected Area Visitor Impact Management \(PAVIM\) Framework: A Simplified Process for Making Management Decisions](#)
Ecotourism and protected area visitation in Central and South America have resulted in ecological impacts, which some protected areas managers have addressed by employing visitor impact management fra
- 9 [Social science and protected area management: The principles of partnership](#)
While most protected area managers have backgrounds in biological sciences or forestry, it is becoming increasingly clear that the management of protected areas in the 21st century is necessarily the
- 10 [Protected Area Management in the Tropics: Can We Learn from Experience?](#)
This paper provides a brief overview of some key experiences from protected area management projects in Africa and Asia, to help set the scene for the new generation of transboundary protected areas.

- Tailed Hawk (15)
 - Cooper's Hawk (12)
 - Ferruginous Hawk (11)
 - Swainson (12)
 - Red-shouldered Hawk (10)
 - Broad-winged Hawk (10)
 - Moths (7)
 - Research Station (9)
- [more | all](#)

[.../veterinary/Veterinary Medical Association](#)

Language: english, English

dx.doi.org/10.2460/javma.231.8.1240 - 3K - [cache](#) - NBII Web Resources Database

2. [Hawk moth pollinators in papaya-species account of the Hawk moth](#) [new window](#) [preview](#)

... significant method of pollination of papaya was by hawk moths (family Sphingidae)." The site discusses the results ... study and provides a species profile of the Hawk moth.

Publisher: Queensland Government, Department of Primary Industries and Fisheries

Language: english, English

www2.dpi.qld.gov.au/horticulture/5330.html - 1K - [cache](#) - NBII Web Resources Database

3. [Swainson's Hawk - Monitoring \[ds5\]](#) [new window](#) [preview](#)

... not represent a complete census of Swainson's hawks in the Department of Fish and Game's ... blocks was surveyed to find all Swainson's hawks in that particular block and in that particular ...

Language: english

n

Biodiversity Information Network



Hawk

Search

[and Oculopathologic Findings in Red-tailed Hawks and Cooper's Hawks with Naturally](#) [file ...](#) [new window](#) [preview](#)

atures and ocular lesions in red-tailed hawks and Cooper's hawks naturally infected with West Nile virus
original study. ANIMALS: 13 hawks. PROCEDURES: All hawks underwent complete ophthalmic examinations

[.../veterinary/Veterinary Medical Association](#)

Language: english, English

dx.doi.org/10.2460/javma.231.8.1240 - 3K - [cache](#) - NBII Web Resources Database

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Language: english





Background - Major Products

Product 1: Multilingual IABIN BioBot Search Tool including software code, on-line help, and technical documentation (English only).

Product 2: Multi-lingual Thesaurus capabilities within Catalog and available to the Community.

Product 3: Software code/scripts for delivering relevant, subset IABIN BioBot results on Focal Points, Thematic Networks, country and other websites

Product 4: Data Content creation and integration grants



Multilingual IABIN Catalog



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Inter-American Biodiversity Information Network



Search Help

Within Results

Sort by: **Content Type**

Search Text: **protected area**

- ALL Results (853)
- Datasets and Information Systems (4)
- Images (2)
- Internet Map Services (20)
- Laws and Regulations (3)
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- 10 [Protected Area Management in the Tropics: Can We Learn from Experience?](#)
This paper provides a brief overview of some key experiences from protected are
help set the scene for the new generation of transboundary protected areas.

Search Text: **planta**

- ALL Results (35)
- Datasets and Information Systems (0)
- Images (28)
- Internet Map Services (0)
- Laws and Regulations (0)
- Museum Collections (0)
- Organizations (0)
- Publications (5)
- Species Information (2)
- Tools and Software (0)

Images from the Image Gallery

Results from your search: 28 Showing: 1 - 20

Asuncion Garden Plants (Platycerium bifurcatum)	Water Hyacinth (Eichhornia crassipes) (3)	Airplant (Tillandsia sp.)	Asuncion Garden Plants (Philodendron sp.)
Asuncion Garden Plant (Philodendron sp.)	Asuncion Garden Plant (2545216)	Mil hombres (Cissampelos pareira)	Camalote (Victoria cruziana) (5)
Camalote (Victoria cruziana) (2)	Camalote (Victoria cruziana) (3)	Camalote (Victoria cruziana) (4)	Camalote (Victoria cruziana)



Catalog Major Holdings

- Collections, Tools, Software, Documentation from IABIN Thematic Networks
- Published Literature
- Species Profiles
- Web Sites, Publications, Legislation related to IABIN Countries
 - **Total Holdings: 204,003 records**



Sample Search Results



 Within Results

 Sort by:

 Search Text: **Dominican Republic**

-
-
-
-
-
-

[View this page in FGDC](#)

Title: Caribbean Coral Reef, Seagrass and Mangrove Sites (CARICOMP), (NODC Accession #0000501)

Investigator(s): Members of the CARICOMP Network:1) Grand Cayman, Cayman Islands - Department of the Environment,2) Bonaire, N.A. - Bonaire Marine Park,3) Barbados - Barbados Research Institute,4) Parque Nacional del Este, Dominican Republic - Universidad Autonoma de Santo Domingo,5) Turneffe Islands Atoll, Belize - University College of Belize, Marine Research Centre,6) Carrie Bow Cay, Belize - Sraithonian Institution,7) Sabana-Caraguay Archipelago, Cuba - Instituto de Oceanologia, Institute of Ecology and Systematics,8) Parque Nacional, Morrocoy, Venezuela - Universidad Simon Bolivar,9) Bahaa de Changuu, Parque Nacional Tayrona, Colombia - Instituto de Investigaciones Marinas y Costeras,10) Discovery Bay, Jamaica - University of the West Indies, Centre for Marine Sciences,11) Tobago - Institute of Marine Affairs,12) San Salvador, Bahamas - Bahaman Field Station,13) Great Corn Island, Nicaragua - Universidad Centroamericana,14) Bermuda - Bermuda Biological Station for Research,15) Isla de Providencia Y San Andres, Colombia - Corporacion para el Desarrollo Sostenible del Archipelago de San Andres,16) Saba, N.A. - Saba Marine Park,17) La Parguera, Puerto Rico - University of Puerto Rico,18) Puerto Morelos, Mexico - Universidad Nacional Autonoma de Mexico, Instituto de Ciencias del Mar y Limnologia,19) Isla de Margarita, Venezuela - EDIMAR Fundacion La Salle de Ciencia,20) Curacao, N.A. - Caribbean Research and Management of Biodiversity

Status: Complete

Access Restriction: None

Data set Location: NOAA National Oceanographic Data Center

Distribution Contact: 1315 East-West Highway, SSMC3, 4th Floor City: Silver Spring State: MD Postal: 20910 Phone: 301-713-3277 or 3280 Email: nodc.services@noaa.gov

Data Center URL: <http://accession.nodc.noaa.gov/0000501>

Data set Citation: NODC Accession #0000501

Keywords(s):

Theme Keyword	Thesaurus	Theme Keyword
CoRIS Theme Thesaurus	EARTH SCIENCE > Biosphere > Aquatic Habitat > Coastal Habitat	
	EARTH SCIENCE > Ocean > Coastal Processes > Coral Reefs	
	EARTH SCIENCE > Biosphere > Zoology > Corals > Reef Monitoring and Assessment	
	EARTH SCIENCE > Biosphere > Zoology > Organisms	
	EARTH SCIENCE > Ocean > Coastal Processes > Coral Reefs > Coral Reef Ecology > Hard Coral Cover Live Percentage	
	EARTH SCIENCE > Biosphere > Vegetation > Algae	
	EARTH SCIENCE > Biosphere > Vegetation > Algae > Algal Cover	
none	Urchin	
	Gorgonian species abundance	
	Urchin species abundance	
	Algae abundance	
	Caribbean monitoring	
	Caribbean research	
CoRIS Discovery Thesaurus	Numeric Data Sets > Biology	
ISO 19115 Topic Category	biota	
	002	

Abstract: The Caribbean Coastal Marine Productivity (CARICOMP) Program is a Caribbean-wide research and monitoring network of 27 marine laboratories, parks, and reserves in 17 countries. This data set includes data collected from 42 stations at 29 sites in the Caribbean from 1993 to 1998. Line transects were used to determine the abundance of hard and soft corals, algae, sponges, urchins, and abiotic material such as substrate type.

Site Information:

Site	North	West	South	East
Caribbean-wide with 27 institutions in 17 countries, extending from Belize to Barbados and from Bermuda to Venezuela	32.45889	-88.08334	10.86667	-59.64056

Use of data is subject to the acknowledgement of CARICOMP as the source.

Constraints:

Content Time Range: Begin: 19930212 End: 19981015

Metadata Reference Information: Metadata Date: 20081217

Metadata Review Date:

Metadata Future Review Date:

Metadata Contact: Organization: NOAA/NGO-E/OCI, SSMC3, 4th Floor, 1315 East-West Highway City: Silver Spring State: MD Postal: 20910 Phone: 301-713-3280 Fax: 301-713-3302 Email: nodc.services@noaa.gov, or sheri.phillips@noaa.gov, or anthony.picciolo@noaa.gov

Query: Dominican Republic

Advanced Search

Configuración de búsqueda avanzada

Búsqueda básica

Búsqueda ampliada

Introduzca el nombre común de especies o seleccione exacta si se introduce un nombre científico

Ecosistemas

Coincidencia exacta (sin nombre taxonómico de expansión)

Búsqueda geográfica

Map Satellite Hybrid Terrain

N: 26.115985925
E: -64.3359375 W: -95.2734375
S: -7.710991655

Colombia
Costa Rica
Cuba
Dominica
Ecuador
El Salvador
Estados Unidos
Granada
Guatemala
Guyana
Haití
Honduras
Jamaica
México
Nicaragua
Panamá
Paraguay
Perú
República Dominicana
Saint Kitts y Nevis
San Vicente y las Granadinas
Santa Lucía
Trinidad y Tobago
Uruguay
Venezuela

Documento Idiomas

Mostrar registros en los siguientes idiomas

Inglés
 Español
 Portugués

Tipo de Contenido

Seleccione los tipos de contenido específico a la búsqueda

Listas de verificación y guías de identificación
 Bases de datos y sistemas de información
 Conjuntos de datos
 Fichas técnicas
 Imágenes
 Mapa de Servidos de Internet
 Leyes y reglamentos
 Historias de vida y perfiles de especies
 Museo de Colecciones
 Organizaciones
 Publicaciones
 Herramientas y Software

IABIN Temas

Seleccionar los temas a la búsqueda de IABIN:

Ecosistemas
 Especies Invasoras
 Polinizadores
 Áreas Protegidas
 Especies y especímenes

- Ability to search by:
 - IABIN TN
 - Map based interface
 - Resource Type
 - Language
- Incorporates taxonomic expansion
- Future:
 - Thesaurus Expansion
 - Place name Expansion





Catalog Content Grants

- **Universidad Tecnológica Nacional / Bahia Blanca--Argentina**
 - Create a tool in order to provide information to the I3N Catalog from distributed I3N databases, test the tools and make corrections to problems found and write a user manual
- **The Horus Institute for Environmental Conservation and Development--Brazil**
 - Make metadata accessible and interoperable through IABIN, the I3N and the IABIN Catalog and transfer information available on the I3N Brazil database to the IABIN Catalog to improve access to the data
- **Universidade de Sao Paulo – Images--Brazil**
 - Extract and provide metadata of 700 images of bees and plants from WEBBEE to the IABIN CATALOG
- **Universidade de Sao Paulo – References--Brazil**
 - Extract and provide metadata of 2,400 bibliographic references on pollination and pollinators from WebBee to the IABIN Catalog
- **Universidade de Sao Paulo – WebServices—Brazil**
 - Create Web-services of datasets and data providers using metadata standards Dublin Core and Federal Geographic Data Committee – Biological Data Profile (FGDC BDP)
- **International Center for Tropical Agriculture (CIAT)--Colombia**
 - Create 340 records of metadata in English and Spanish, make accessible through CIAT geonetwork all metadata created under the project and document all the processes required to generate it for different types of resources.
- **Corporación Selva Humeda—Colombia**
 - Digitize 500 metadata of the most pertinent topics with the IABIN thematic networks about geospatial and taxonomic biodiversity from the ETN to the IABIN Catalog





Catalog Content Grants (Cont)

- **Instituto Amazónico de Investigaciones Científicas SINCHI--Colombia**
 - Digitize, in the FGDC format, the metadata of 437 data groups from the SINCHI Institute flora from the non vascular plants and the threatened, invasive and introduced species maps databases by the Colombian Amazon Region Flora Program on the SINCHI Institute.
- **Instituto Nacional de Biodiversidad (INBio) – Multimedia—Costa Rica**
- **Instituto Nacional de Biodiversidad (INBio) – Webservices—Costa Rica**
- **Organización para Estudios Tropicales--Costa Rica**
 - Digitize metadata of 2000 scientific articles and the development of a new data base available in OET, IABIN and SG/OAS webpages
- **CONAP--Guatemala**
 - Digitize 1600 registries of vertebrate pollinators (birds and bats) of species and multiple taxons obtained by investigation projects of the chemistry and pharmacy sciences faculty and independent investigators/associates
- **Smithsonian Tropical Research Institute—Panama**
 - Guide the development of metadata and flora and fauna information for 4,000 of STRI's images from field work, as well as 4,000 images of specimens in STRI's collections.
- **Fundación Ciudad del Saber--Panama**
 - Promote the Web Service installed on the server on the University Tennessee granting users searching through the IABIN Catalog about the existent information at the ETN data base and access approximately 3000 records





Multi-lingual Thesaurus

- Scope:
 - Translation and thesaurus development of ~12,000 biological/ecological terms
- Goal:
 - Improve Search Results while exposing multi-lingual content
- Approach
 - Staff:
 - Spanish Consultant
 - Portuguese Consultant
 - Deliver IABIN thesaurus to NBII for hosting and incorporation into IABIN Catalog
- Web-service TOR's created for these thesauri – allow use by TN's, Catalog, Countries





Approach to Adding Spanish and Portuguese Capabilities

- Use Foreign Language Relationships available in MultiTes
- Using spreadsheets containing Spanish and Portuguese translations extract these in MultiTes load format
- MultiTes will continue to be used to manage terms.
- Use current extraction procedure to populate SQL Server database (includes guid generation)





Web Services for Translation To/From English, Spanish, and Portuguese

- The first six web services have a single input and output (the name of the service specifies To and From language)
 - Input: *term to translate*
 - Output: *translated term*
- The six web services are named:
 - TranslateEnglishTermToSpanish
 - TranslateEnglishTermToPortuguese
 - TranslateSpanishTermToEnglish
 - TranslatePortugueseTermToEnglish
 - TranslateSpanishTermToPortuguese
 - TranslatePortugueseTermToSpanish





A Generic Web Service

- *TranslateTerm*, the seventh web service is more generic and requires three **inputs**:
 - *term to translate*
 - *input language* (ENG, SPA, or POR)
 - *output language* (ENG, SPA, or POR)and one **output**:
 - *translated term*
- The initial plan is to convert these SQL statements into stored procedure(s) to handle the seven web services using SQL Server 2005's ability to expose a stored procedure as a web service.
- Modeled after "ITIS" web services.





A Web Service To Display a Term Within Its Hierarchy

- For example: Given an input term of “amphibians” and a choice of seeing narrower terms, broader terms, or both (case shown below), the 10 records labeled (1) – (10) are returned

Legend

- . = Narrower Terms
- : = Broader Terms

amphibians

- ::: Animal Science and Animal Products (1)
- ::: Biological Sciences (2)
- ::: organisms (3)
- :: animals (4)
- : vertebrates (5)
- amphibians (6)
- . caecilians (7)
- . frogs (8)
- . salamanders and newts (9)
- . toads (10)

This example is from USDA National Agricultural Library web site.





Initial Catalog Prototype Sources

These sources have been queried: 

- **Biodiversity Heritage Library** - Top 29 results retrieved out of 41,704 in 0.105 seconds.
- **ConserveOnline** - Top 29 results retrieved out of 1,544 in 0.02 seconds.
- **Cornell Ornithology Lab Birds of North America Online: Species List** - Top 29 results retrieved out of 746 in 0.191 seconds.
- **NBII FGDC Metadata Clearinghouse** - Top 29 results retrieved out of 87,684 in 0.205 seconds.
- **NBII Web Resources Database** - Top 29 results retrieved out of 47,426 in 0.134 seconds.
- **Natureserve Species Profiles** - Top 29 results retrieved out of 62,328 in 0.097 seconds.
- **Pew Center on Global Climate Change** - Top 29 results retrieved out of 342 in 0.086 seconds.
- **US Forest Service: Treesearch** - Top 29 results retrieved out of 28,427 in 0.173 seconds.
- **USGS Gap Analysis Program** - Top 29 results retrieved out of 13,243 in 0.12 seconds.



Catalog Search Demo

https://dev-nbii-search.cr.usgs.gov/search/cgi-bin/query-meta?v%3Aproject=usgs-iabin&query=*



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Results 1-5 of 5 in Data

Topic Clusters

Top 11 Results

- Alien, Plant and animal species found in Brazil (5)
 - List Of Alien Invasive Species (2)
 - Brazil National Survey On Alien Invasive Species (2)
 - Other Topics (1)
- Data** (5)
 - Other Topics (1)

1. [I3N Brazil Invasive Species Database](#) [new window](#) [preview](#)

... occurrences, research projects, publications, and other information about **invasive species in Brazil**. A member of the Inter-American Biodiversity Information Network ...

Publisher: Instituto Horus, Instituto Hórus de Desenvolvimento e Conservação Ambiental (Brasil)

Language: english, Portuguese

Date: 12/12/2008

i3n.institutohorus.org.br - 1K - [cache](#) - NBII Web Resources Database

2. [IABIN Invasives Data Network](#) [new window](#) [preview](#)

... pilot project to begin exchanging information on **invasive species in** the Americas. The IABIN **Invasives** Information Network (I3N) pilot project participants were Argentina, **Brazil**, Bahamas, Chile, Dominican Republic, Ecuador, El Salvador, Guatemala, ...

Publisher: Clarin, Downtown Kingston Weekly

Language: english

mercury.ornl.gov/...adata_mdata_IABIN_iabin_d_invasives.html - 27K - [cache](#) - NBII FGDC Metadata Clearinghouse

3. [Tropical Soda Apple Invasion of the CSWGCIN Region](#) [new window](#) [preview](#)

Tropical soda apple is native to **Brazil** and Argentina and was first reported in the United States in Florida in the late 1980s. Since then it has spread throughout the Southeastern United States and across the Gulf Coast into Louisiana and East Texas (reported in Jasper County, Texas in July 2004).

Publisher: Central Southwest Gulf Coast Information Node, National Biological Information Infrastructure

Language: english, English

cswgcin.nbii.gov/...D=2264&mode=2&in_hi_userid=2&cached=true - 1K - [cache](#) - NBII Web Resources Database

4. [IABIN Invasives Information Network \(I3N \)](#) [new window](#) [preview](#)



Sample Content



Biodiversity Heritage Library

[Feedback](#) | [About](#) | [Tools](#) | [Tutorials](#) | [BHL Members](#) | [Copyright](#) | [Contact](#)

Search All Categories ▾ ⊞
[Advanced Search](#)

Browse By: [Titles](#) | [Authors](#) | [Subjects](#) | [Names](#) | [Map](#) | [Year](#)

Published In:

For:

Now Online [Details](#)
42,754 titles
82,501 volumes
31,015,747 pages
[Recent additions](#)

BHL Updates [Details](#)
[Ingest Criteria Revised](#)
[Book of the Week: Another Peek at Conservation](#)
[Book of the Week: The Green Anole and Cuvier](#)
[Biodiversity Heritage Library receives the ALCTS Collaboration Award](#)
[New Feature: User-Submitted Requests for Scanning!](#)
[Book of the Week: Spiders, Spiders and More Spiders](#)
[Book of the Week: Species Highlight - The Eastern Painted Turtle](#)
[BHL and Vienna! BHL-Global Updates](#)
[Conservation 101: Near](#)

Les "Alpheidae," morphologie externe et interne, formes larvaires, bionomie.

Brief | [Detailed](#) | [MARC](#) | [BibTeX](#) | [EndNote](#)

By:
[Coutière, Henri, 1869-](#)
[Chace, Fenner Albert.](#)

Publication info:
Paris, Masson, 1899.

Call Number:
QL444.M33 C87 1899

Subjects:
[Decapoda \(Crustacea\)](#), [Snapping shrimps](#)

[Find in a local library](#)

[Report an error](#)

= show details for volume = read

View: [Expand All Scan Details](#)

[View Book](#)



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Results 1-10 of about 44 | [Details](#)

Topic Clusters

Top 30 Results

[remix](#)

- Article discusses (8)
- Bee Colony Collapse Disorder (2)
- Bees and Pollination (3)
- Beekeeping (3)
- Fall Dwindle Disease (3)
- Pollinators, Population decline, Diseases, Environmental (3)
- What Is Colony Collapse Disorder (2)
- Survey (2)
- Other Topics (6)

1. [Honey Bee Colony Collapse Disorder Map of Affected States February 2007](#) [new window](#) [preview](#)

Map of US States where **Colony Collapse Disorder** (CCD) has been reported.

Publisher: Mid-Atlantic Apiculture Research and Extension Consortium

Language: english, English

Date: 06/09/2008

maarec.cas.psu.edu/pressReleases/CCDMap07FebRev1-.jpg - 1K - cache - NBII Web Resources Database

2. [Bee Colony Colla](#)

This article provides info in the past. It also discuss

Publisher: Cornell Uni

Language: english, Er

www.entomology.corne

3. [Bees and Pollinatio](#)

This site links to inform and literature.

Publisher: Ohio State

Language: english, Er

Date: 05/01/2007

Bees and Pollination

Colony Collapse Disorder

During 2006, an alarming number of honey bee colonies began to die across the continental United States. Subsequent investigations suggest these outbreaks of unexplained colony collapse were experienced by beekeepers for at least the last two years. Reports of similar die offs are documented in beekeeping literature, with outbreaks possibly occurring as long ago as 1896. The current phenomenon, without a recognizable underlying cause, has been tentatively termed "Colony Collapse Disorder" (CCD), and threatens the pollination industry and production of commercial honey in the United States. -- Colony Collapse Disorder Working Group

FAQ

- [USDA Agricultural Research Service FAQ on Colony Collapse Disorder](#)
- [Colony Collapse Disorder](#) (Wikipedia)
- [Colony Collapse Disorder](#) (National Biological Information Infrastructure)
- [CCD Frequently Asked Questions](#)
- [Silence of the Bees](#) (PBS Nature Oct. 28, 2007)
- [What's Wrong with the Bees?](#) (60 Minutes Feb. 21, 2008)

Reports

- [USDA Announces Colony Collapse Disorder Research Action Plan](#) (July 13, 2007) ([plan PDF](#))
- Ohio Info Bee Newsletter
 - [October 2007](#)



Sample Content



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Inter-American Biodiversity
Information Network

flora de la América

Search

Results 1-10 of about 139 | [Details](#)

Topic Clusters

Top 56 Results remix

- NatureServe Species Profile (29)
- Species, Plants (18)
- Por, Estudio (3)
- Nacional, Protected areas (5)
- La Fauna Y La Flora (2)
- Other Topics (3)

1. [Tratado elemental de botánica : adaptado al estudio de la flora de la América equinoccial / por Carlos Cuervo-Márquez.](#) [new window](#) [preview](#)

... Remainder of title: adaptado al estudio de la flora de la América equinoccial /Remainder of title page transcription/statement of

...

Author: Cuervo Márquez, Carlos, 1858-1930.

Callnumber Loc: QK47 .C79

Subjects: Plants, South America, Tropical plants

Publication Info: Bogotá :Impr. Eléctrica,1913.

View: Download: PDF | OCR | Images | All Contributing Library: New York Botanical Garden Sponsor: The LuEsther T Mertz Library, the New York Botanical Garden Date Scanned: 02/24/2010 --Copyright and Usage--
Rights:http://www.biodiversitylibrary.org/commissions/Duo_Diligencia<http://www.biodiversitylibrary.org/commissions>

Publisher: Biodiversity Martes, 3 de agosto 2010
Buenos Días y Bienvenido al

www.biodiversitylibrary.org/biblio

2. [Sistema de Información Bo](#)

... plantas con flores) de los Andes andinas, incluyendo la flora costera

Publisher: Sistema de Informac

Language: spanish, Spanish

www.sacha.org/main_sp.htm - 1

Sistema de Información Botánica Andina

Sistema de Información Botánica Andina [SIBA] representa un esfuerzo para proporcionar información florística y sistemática de las fanerógamas (plantas con flores) de los Andes de Sud América. SIBA está desarrollando una red de base de datos para grupos de plantas andinas, incluyendo la flora costera de Perú y Chile, inventarios florísticos de bosques montanos del norte peruano, y estudios monográficos con imágenes.

La información contenida en [Andean Botanical Information System](#) se traduce a una versión en español. Retorne a este sitio a menudo. Accedera a la información de una variedad de categorías. [ver [Mapa de Sitio](#)].



¿Qué es Nuevo?



A new species of Magnolia (Magnoliaceae) from the Alto Mayo, San Martín, Peru 16(1): 07-12. 2009.

Future Directions

Geospatial Searching

Primary Goals:

1. Provide Geospatial Querying of content
2. Geospatial (place based) results
3. Integrate Vivisimo with other Geospatial applications

The screenshot shows the NBII search results page for 'invasive plants'. The top navigation bar includes 'Help', 'Advanced', and 'Map' options. A search bar contains the text 'invasive plants'. The left sidebar features 'Clusters' and 'Sources' sections, listing various categories like 'Exotic (34)', 'Thistle (33)', and 'Aquatic Plants (38)'. Below this is a 'Refine Results' section with 'Map View' and 'Publisher' filters. The main content area displays a map of the United States with a callout box for 'SAVEM - Invasive Plant Significant Areas'. Below the map is a list of search results, including 'SAVEM - Invasive Plant Inventory and Monitoring Project - Franklin Project Area 2002', 'Purple Loosetrife Locations Integrated By NBII-SAIN into NAWMA Format', and 'Japanese Honeysuckle Locations Integrated By NBII-SAIN into NAWMA Format'. Each result includes a title, a brief description, publisher information, and source details.

The screenshot shows the 'Data Explorer' interface for 'SAVEM - Invasive Plant Significant Areas'. The top navigation bar includes 'Virginia, Invasive Alien Plant Species (41)' and 'SAVEM - Invasive Plant Significant Areas'. The 'Data Explorer' panel on the left shows 'Search Results' for 'Visualized Search Result For: SAVEM - Invasive Plant Significant Areas'. Below this is an 'Info Panel' with tabs for 'Layer', 'GAP Landcover', and 'PADUS Status'. The 'Info Panel' also shows 'PADUS Management' and 'SAVEM - Invasive Plant Significant Areas'. The main content area displays a map of the Eastern United States with a callout box for 'SAVEM - Invasive Plant Significant Areas'. Below the map is an 'NBII Data Panel' with checkboxes for 'GAP Landcover', 'PADUS Status', and 'PADUS Management'. The bottom of the page includes a footer with 'standards format...', 'Publisher: NBII Southern Appalachian Information Node (ed.)', 'Source: NBII FGDC Metadata Clearinghouse', and 'Resource Type: Data & Maps'.



NBII-GBIF Services

- US Node for GBIF
- Hosts GBIF portal and database
- Various data extraction services and visualizations
- IPT prototype installation, trainings on setting up DiGIR and IPT
- UDDI service



GBIF Data Portal



The screenshot shows the GBIF Data Portal homepage. At the top left is the logo for the Global Biodiversity Information Facility, featuring a green leaf icon. The main navigation bar includes links for SPECIES, COUNTRIES, DATASETS, OCCURRENCES, SETTINGS, and ABOUT. Below this is a search bar with a magnifying glass icon and the text "Search species/country/dataset". The central content area is titled "Welcome to the GBIF Data Portal" and contains a paragraph of introductory text. To the right of this text are four small images: a monkey, a butterfly, a dolphin, and a flower. Below the main content are three columns, each with a world map icon and a title: "Explore Species", "Explore Countries", and "Explore Datasets". Each column contains a brief description of the data available and a "See data for:" link. At the bottom left, there is an "Example species:" section with the text "Puma concolor (Linnaeus, 1771)". The footer contains the text "Layout & design © GBIF. Data providers retain all rights to data." and a "Contact us" link.

GLOBAL BIODIVERSITY INFORMATION FACILITY

SPECIES COUNTRIES DATASETS OCCURRENCES SETTINGS ABOUT

... free and open access to biodiversity data

Welcome to the GBIF Data Portal

Access millions of data records shared via the GBIF network. To learn how to use this site, please see [About](#). To tune this site for smaller displays, see [Settings](#). Version 1.2.6 - click here to see what is new!

Search species/country/dataset

Search

Explore Species

Find data for a species or other group of organisms.

Species
Information on species and other groups of plants, animals, fungi and micro-organisms, including species occurrence records, as well as classifications and scientific and common names.

Example species:
Puma concolor (Linnaeus, 1771)

Explore Countries

Find data on the species recorded in a particular country.

Countries
Information on the species recorded in each country, including records shared by providers from throughout the GBIF network.

See data for:
[United States](#)

Explore Datasets

Find data from a data provider, dataset or data network.

Datasets
Information on the data providers, datasets and data networks that share data through GBIF, including summary information on 10475 datasets from 313 data providers.

Layout & design © GBIF. Data providers retain all rights to data. Contact us

GBIF Site: <http://data.gbif.org>
U.S. Mirror: <http://us.mirror.gbif.org>

World:

- 201,275,468 occurrence records
- 318 data providers

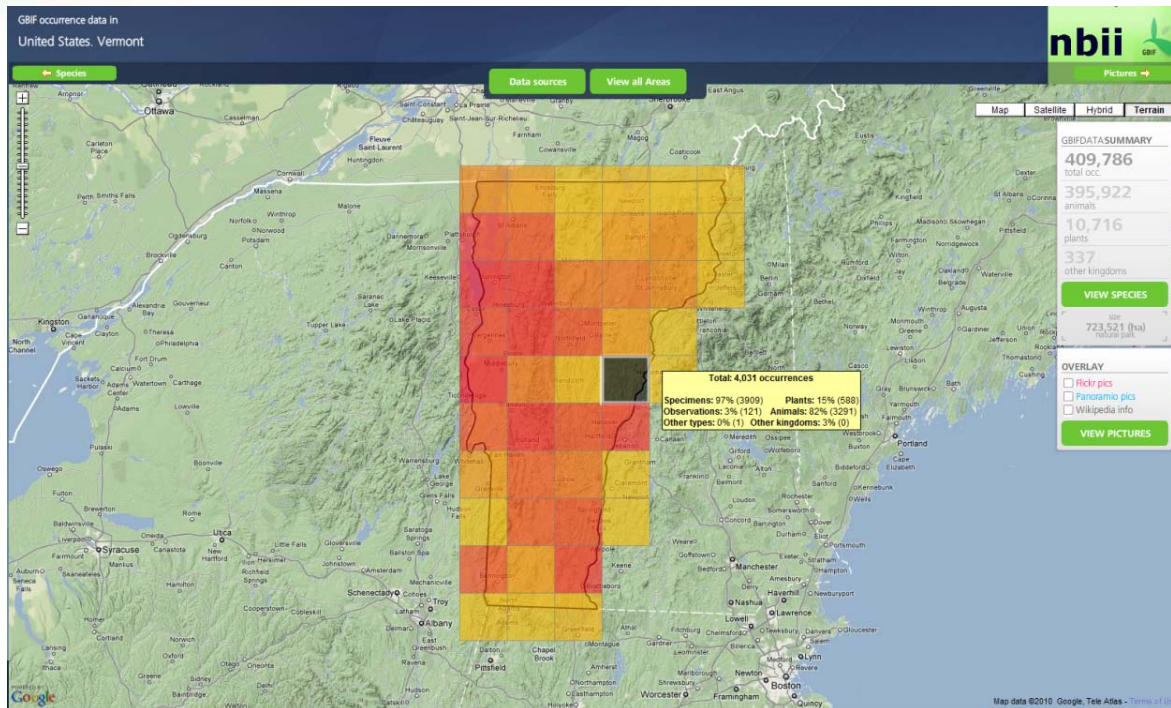
USA:

- 83,607,198 records
- 91 data providers



NBII Customized widgets for exploring GBIF data

GBIF Widget for Vermont Area



- ☉ Animalia
- ☉ Plantae
 - ☉ Equisetophyta
 - ☉ Lycopodiophyta
 - ☉ Magnoliophyta
 - ☉ Liliopsida
 - ☉ Alismatales
 - ☉ Arales
 - ☉ Cyperales
 - ☉ Ericales
 - ☉ Hydrocharitales
 - ☉ Juncales
 - ☉ Liliales
 - ☉ Najadales
 - ☉ Orchidales
 - ☉ Typhales
 - ☉ Magnoliopsida
 - ☉ Pinophyta
 - ☉ Pteridophyta
 - ☉ Rhodophyta
 - ☉ Unknown



GBIF Data Analysis And Extractions for NBII Partners

- Example GBIF Data Extractions:
 - Extract data for specific State(s), countries.
 - Extract data for list of species (plants, birds, butterflies etc..)

Visualizations : GBIF top 1000 Plants Occurrences in US (common name) [edit | share]

Uploaded by: Geprakash Created at: Monday February 08 2010, 01:08 PM

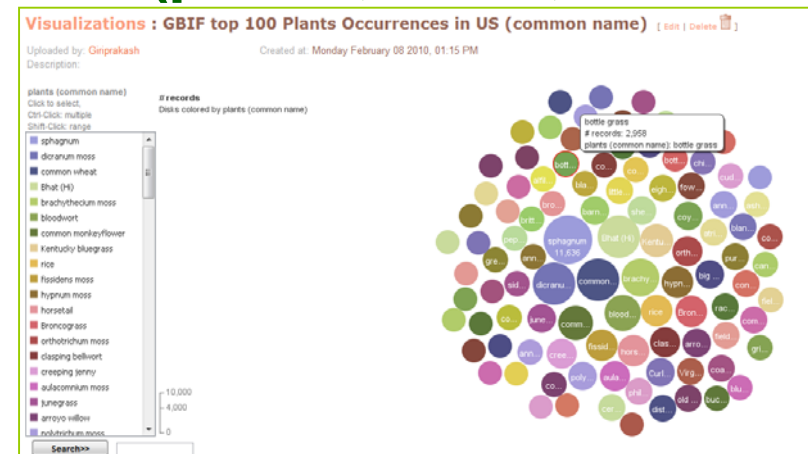
Description:

Tags: gbf

Search: Showing 200 out of 1000

aaron's-rod alaska bentgrass aleppo grass allifaree alpine roseau american bugleweed american elm american germander american speedwell amorfa kustarnikovaya (rus) annual blue grass annual rabbitsfoot grass annual witchgrass apple of sodom arroyo willow ashleaf maple atrichum moss aulacomnium moss awless brome baby blue eyes barnyard grass bartramia moss bastard foxtail bermudagrass bhat (hi) bicolor lupine big bluegrass big bluestem bigbract verbena bird's nest black bent black willow blackeyed susan bland sedge bloodwort blue violet blue wild rye blue-eyed mary bluebell bluehead gilia bluejoint blunt spikerush bottle grass bottlebrush squirreltail brachythecium moss bracken brevior sedge bristly buttercup brittle bladder fern broadleaf arrowhead broadleaf cattail broadleaf plantain broncograss broom snakeweed buckhorn plantain bull thistle burgass butterfly milkweed california creamcup california goldenpoppy canada bluegrass canada sanicle canada wildrye candy grass cardinal flower carpet bentgrass carpetweed catchfly ceratodon moss chamomile chickweed christmas fern ciliate hedwigia moss clasp bellwort clearwater catseye coast wallflower cocksfoot common blue violet common evening primrose common fox sedge common hackberry common henbit common hornwort common ladyfern common lambsquarters common monkeyflower common rush common salsify common selfheal common sheep sorrel common speedwell common spikerush common timothy common water hemlock common wheat common woolly sunflower common yellow oxalis controversial weisia moss corn coyote willow crabgrass creeping jenny creeping lowgrass cudweed sagewort curley dock cypress panicgrass delicate thuidium moss desert saltgrass dicranella moss dicranum moss distant phacelia doradille ebane early woodbuttercup eight-flower six-weeks grass euryhynchium moss european black elder fall panic false solomon's-seal field horsetail field rush fissidens moss flossgrass fourwing saltbush fowl manna grass fox grape foxtail barley fragrant falsegod fringed sedge fringed willowherb fringedleaf paspalum funaria moss garden tomato golden-yarrow

graceful sedge grand collomia grassleaf rush grassy pondweed grassy tarweed
 gray horsebrush gray thistle gray's sedge graybark grape grayhead prairieconeflower
 grayleaf willow great blue lobelia great bulrush great plains flatsedge
 greater bladder sedge green antelopehorn green antelopehorn milkweed
 green ash green ephedra green muhly green antelopehorn
 green tansymustard green threads green woodland orchid
 greenspot nightshade grimmia dry rock moss ground cherry (virginia)



GBIF Data Analysis Extractions Cont..

Visualizations : GBIF top 1000 Plants Occurrences in US (common name)

Uploaded by: Giriprakash

Created at: Monday February 08 2010, 01:08 PM

Description:

Tags: gbif

Search :

Showing 200 out of 1000

aaron's-rod alaska bentgrass aleppo grass alfilaree alpiste roseau american bugleweed american elm american germander american speedwell amorfa kustarnikovaya (rus) annual blue grass annual rabbitsfoot grass annual witchgrass apple of sodom arroyo willow ashleaf maple atrichum moss aulacomnium moss awnless brome baby blue eyes barnyard grass bartramia moss bastard toadflax bermudagrass bhat (hi) bicolor lupine big bluegrass big bluestem bigbract verbena bird's nest black bent black willow blackeyed susan bland sedge bloodwort blue violet blue wild rye blue-eyed mary bluebell bluehead gilia bluejoint blunt spikerush bottle grass bottlebrush squirreltail brachythecium moss bracken brevior sedge bristly buttercup brittle bladder fern broadleaf arrowhead broadleaf cattail broadleaf plantain broncogross broom snakeweed buckhorn plantain bull thistle burgrass butterfly milkweed california creamcups california goldenpoppy canada bluegrass canada sanicle canada wildrye candy grass cardinal flower carpet bentgrass carpetweed catchfly ceratodon moss chamomile chickweed christmas fern ciliate hedwigia moss clasping bellwort clearwater catseye coast wallflower cocksfoot common blue violet common evening primrose common fox sedge common hackberry common henbit common hornwort common ladyfern common lambsquarters coast wallflower common rush common salsify common selfheal common sheep sorrel common speedwell common spikerush common timothy common wheat common woolly sunflower common yellow oxalis controversial weissia moss corn coyote willow crabgrass lovegrass cudweed sagewort curley dock cypress panicgrass delicate thuidium moss desert saltgrass dicranella moss dstant phacelia doradille ébène early woodbuttercup eight-flower six-weeks grass eurhynchium moss european black elder fall panic false solomon's-seal field horsetail field rush fissidens moss flaxgrass fourwing saltbush fowl manna grass fox grape foxtail barley fragrant flatsedge fringed sedge fringed willowherb fringeleaf paspalum funaria moss garden tomato golden-yarrow green ash green tansymustard grimmia dry rock moss horsetail hotspings panicum hummingbird trumpet hypnum moss indiagrass italian ryegrass jim hill mustard junegrass kentucky bluegrass lacepod mustard lescur's sphagnum leskea moss leucodon moss little barley little bluestem maidenfern mintleaf beebalm neckweed old switch panic grass oldfield (prairie) 3-awn orthotrichum moss ovalleaf sedge owlfruit sedge peppergrass petticoat-climber philonotis moss pigweed polytrichum moss possumhaw poverty danthonia prairie sphagnum purple 3-awn purple love grass purpletop racomitrium moss rattlesnake fern ravine fescue red baneberry red maple rice rice cut grass rocky mountain trisetum rose milkweed rough barnyard grass rough bent sand dropseed scarlet gilia seductive entodon moss sensitive fern shallow sedge shepardspurse sideoats grama silver sedge silvery lupine slender wheatgrass sphagnum stawcolored flatsedge thelia moss toothed plagiomnium moss torrey rush virginia wild rye wax currant whitetinge sedge yellow pincushion

Web services to query GBIF data

OGC web services:

- Taxon data service: [http:// us.mirror.gbif.org/ws/rest/taxon](http://us.mirror.gbif.org/ws/rest/taxon)
- Occurrence record data service: [http:// us.mirror.gbif.org/ws/rest/occurrence](http://us.mirror.gbif.org/ws/rest/occurrence)
- Occurrence density data service: [http:// us.mirror.gbif.org/ws/rest/density](http://us.mirror.gbif.org/ws/rest/density)
- Dataset metadata service: [http:// us.mirror.gbif.org/ws/rest/resource](http://us.mirror.gbif.org/ws/rest/resource)
- Data provider metadata service: [http:// us.mirror.gbif.org/ws/rest/provider](http://us.mirror.gbif.org/ws/rest/provider)
- Data network metadata service: [http:// us.mirror.gbif.org/ws/rest/network](http://us.mirror.gbif.org/ws/rest/network)
- More information:
<http://wiki.gbif.org/dadiwiki/wikka.php?wakka=DeveloperAPIs>
- Web services to query US GBIF data (under development)





Web Services to Query US GBIF Data

- Based on NBII CH/Lucene/Solr index
- Species occurrences query
 - [http://nbii-gbif.ornl.gov/us_solr/select?indent=on&version=2.2&q=scientific_name%3A%22Abildgaardia ovata%22&start=0&rows=100&fl=latitude%2Clongitude&qt=standard&wt=standard&explainOther=&hl.fl=](http://nbii-gbif.ornl.gov/us_solr/select?indent=on&version=2.2&q=scientific_name%3A%22Abildgaardia%22&start=0&rows=100&fl=latitude%2Clongitude&qt=standard&wt=standard&explainOther=&hl.fl=)

Simple Web Services Client to get occurrence counts

Get US GBIF count - Windows Internet Explorer provided by ORNL

http://mercury.ornl.gov/gbifUtility/

201,275,468 occurrence rec... Map Get US GBIF co

US GBIF Species Occurrences

Enter Scientific Name:

Select a State:

North:

West: East:

South:

Number of occurrences

Moehringia macrophylla(N:42.51 S:32.02 E:-113.61 W:-124.9):

7

<http://mercury.ornl.gov/gbifUtility/>

Species Level xml files for NBI Catalog search

```
Abildgaardia_ovata.xml new 2
1 <?xml version="1.0" encoding="ISO-8859-1" standalone="yes"?>
2 <metadata>
3   <scientific_name>Abildgaardia ovata</scientific_name>
4   <total_occurrences>8</total_occurrences>
5   <occurrences_date_range>
6     <begin_date>1911-12-31</begin_date>
7     <end_date>2000-02-15</end_date>
8   </occurrences_date_range>
9   <list_of_providers>
10    <provider>
11      <name>USDA PLANTS</name>
12      <count>8</count>
13    </provider>
14  </list_of_providers>
15  <list_of_resource>
16    <resource>
17      <name>USDA PLANTS Database</name>
18      <count>8</count>
19    </resource>
20  </list_of_resource>
21  <basis_of_record_summary>
22    <basis name="observation">8</basis>
23  </basis_of_record_summary>
24  <taxon_id>13753203</taxon_id>
25  <common_name>flatspike sedge</common_name>
26  <iso_country_code>
27    <country_code name="US">8</country_code>
28  </iso_country_code>
29  <bounding>
30    <westbc>-98.17</westbc>
31    <eastbc>-80.4529</eastbc>
32    <northbc>28.8492</northbc>
33    <southbc>16.6356</southbc>
34  </bounding>
35  <occurrences_webservice>
36    <field>latitude</field>
37    <field>langitude</field>
38    <url>http://nbii-gbif.ornl.gov/us_solr/select?indent=on&version=2.2&q=scientific_name%3A%22Abildgaardia ovata%22&start=0&rows=100&fl:
39  </occurrences_webservice>
40  <gbif_full_page>http://us.mirror.gbif.org/species/13753203/</gbif_full_page>
41  <gbif_ogc_url>http://us.mirror.gbif.org/countries/gbifWMSMap?vmsFilter=%3CFilter%3E%3CAnd%3E%3CPropertyIsEqualTo%3E%3CPropertyName%3E%3CPropertyType%3C/PropertyType
42  </metadata>
43
```





Upcoming Year Tasks

- Full implementation of multi-lingual (3) Thesaurus web-services
- Implementation of new IABIN Catalog Search System
 - **Additional Content**
 - **ITIS web-services**
 - **IABIN Thesaurus web-services**
 - **Multi-language Interfaces**
 - **On-line Help**
 - **Use of rss for streaming content***
 - **Geospatial Interface for Query and Results***
- Provide maintenance and technical support
- Continued use of the US GBIF mirror to support IABIN
- Deploying Catalog Search on TNs site





References and Contact Information

<https://dev-nbii-search.cr.usgs.gov/search/cgi-bin/query-meta?v%3Aproject=usgs-iabin>

Questions / Comments / Advice / Opinions

Mike Frame: mike_frame@usgs.gov

