

USO DE BASES DE DATOS E INFORMACIÓN GEO-ESPACIAL PARA LA CONSERVACIÓN DE AVES ACUATICAS Y HUMEDALES

**The Use of Databases and Geospatial Information
for the Conservation Waterbirds and Wetlands**

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Ducks Unlimited, Inc., Memphis, TN 38120, EUA



Ducks Unlimited

ONG - 1930'

Humedales – Aves acuáticas

DU EUA

DU Canadá

DU México AC

Manejo y restauración

Conservación e investigación

Uso de Tecnología Geo-espacial y Bases de Datos

- Priorizar actividades en el terreno,
- Dar seguimiento a proyectos,
- Monitorear cambios y amenazas,
- Cuantificar el hábitat



Programa para América Latina y el Caribe

1999

Manejo

Restauración

Conservación

Humedales

Aves Acuáticas

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Conteos de Anátidas

Capacitación
Bases de Datos
Servidores de Mapas

Inventario de Humedales

Proyectos de Hábitat

Restauración y Manejo

SIG-SR

Base de Datos



Conteos de Anátidas

Oportunidades de manejo/restauración

Humedales más importantes

Cantidades y cronología

Patrones de uso

Problemática específica

Areas protegidas, sitios Ramsar,
Regulación de la caza....



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Conteos de Anátidas

-Base de Datos-

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Welcome to the
CONSERV
Latin America and Caribbean Gateway

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[Home](#)
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[Reports](#)
[Admin](#)

Survey Menu

Please select a task:

- [ADD A NEW SURVEY UNIT](#)
- [ADD NEW SURVEY DATA](#)
- [SEARCH/EDIT SURVEY DATA](#)
- [GENERATE REPORTS](#)
- [ADMINISTRATORS](#)

Other Links

[Conserv Home](#)
[LAC Home](#)

✓ Búsqueda de información

✓ Acceso público



Conteos de Anátidas

-Base de Datos-

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The screenshot shows the 'ADD A NEW SURVEY UNIT' form in the CONSERV web application. The header includes the 'DUCKS UNLIMITED' logo, the text 'Welcome to the CONSERV Latin America and Caribbean Gateway', and links for 'Help' and 'Logout'. A left sidebar contains navigation links: 'Home', 'Survey', 'Reports', 'Admin', and 'Other Links' (with sub-links for 'Conserv Home' and 'LAC Home'). Logos for 'USGS' and 'nbit' are also present in the sidebar. The main form area contains the following fields:

- Survey Unit Name**: A text input field.
- Country**: A dropdown menu with 'Costa Rica' selected.
- Province/State/Department**: A dropdown menu with 'Guanacaste' selected.
- City/Town**: A dropdown menu with 'Guanacaste' selected. The menu is open, showing options: 'Alajuela', 'Cartago', 'Guanacaste', 'Heredia', 'Limon', 'Puntarenas', and 'San Jose'.
- Hemisphere**: A text input field.
- Latitude**: A text input field.
- Longitude**: A text input field.
- Coordinate Source**: A dropdown menu.

At the bottom of the form are three buttons: 'Insert', 'Query', and 'Reset'. A note above the form states: 'Please enter the following information about your new Survey Unit. Red text represents a required field. You will not be able to proceed without filling the required fields. If you would like to clear the field entries, click the "reset" button.'

✓ Unidades de muestreo estandarizadas

✓ Reglas para mejor calidad de datos



Conteos de Anátidas -Base de Datos-

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Step 1 - ADD NEW SURVEY DATA TO EXISTING UNIT
Please select a Survey Unit and complete the following information. Follow the Wizard for the next step by clicking the "next" button. Red text represents a required field. You will not be able to proceed without filling the required fields. If you would like to clear the field entries, click the "reset" button.

Country:

State/Province:

Survey Unit	**** Select Survey Unit ****		
	**** Select Survey Unit ****		
	Embalse Cachi, Turrialba, CRI-CRT, CR		
	Laguna Conceves, Cartago, CRI-CRT, CR		

Survey Date	<input type="text"/>	Start Time	Hr: <input type="text"/> Min: <input type="text"/> am/pm: <input type="text"/>
		Finish Time	Hr: <input type="text"/> Min: <input type="text"/> am/pm: <input type="text"/>

Method	<input type="text"/>	Survey Type	<input type="text"/>
Weather	<input type="text"/>	Wind	<input type="text"/>
		Percent Covered by Survey	<input type="text"/>

Enter the habitat structure and cover percentage below:

	Habitat Structure	Cover Percent
<input type="checkbox"/> delete	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> delete	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> delete	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> delete	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> delete	<input type="text"/>	<input type="text"/>

Done



Conteos de Anátidas

-Base de Datos-

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Step 2 - ADD NEW SURVEY COUNT DATA

Please select the Survey Species counting data. Follow the Wizard for the next step by clicking the "next" button. **Red** text represents a required field. You will not be able to proceed without filling the required fields. If you would like to clear the field entries, click the "reset" button.

Country:	Belize	State:	Toledo
Survey Unit:	Aguacañente Lagoon		
Survey Date:	12 March 2001	Report Date:	12 March 2001

Observations

150 Boat-billed heron (Cochlearius cochlearius)

Enter the species data and count below:

	Species Name	Count	Age	Sex	Comment
<input type="checkbox"/> delete	Anas discors	2225			
<input type="checkbox"/> delete	Dendrocygna autumnalis	700			
<input type="checkbox"/> delete					
<input type="checkbox"/> delete					



Conteos de Anátidas

-Base de Datos-

Facilidad para meter datos

Información más completa

Acceso mejorado a los datos

Diferentes niveles de acceso

Libre uso para todos los involucrados
en la conservación y conteo de
anátidas y otras aves acuáticas

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Servidor de Mapas

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Welcome to the **CONSERV** Latin America and Caribbean Interactive Map

DUCKS UNLIMITED nbi U.S. FISH & WILDLIFE SERVICE

Latin American & Caribbean Program

Map Legend Related Links Help Metadata

LAYERS

- All Layers
- Survey Sites
 - Waterfowl Survey Sites
 - Directory of Neotropical Wetlands
 - Ramsar Sites
 - IBA Sites (not yet available)
 - IWC Sites (not yet available)
- Base Map
 - Country Capitals
 - Rivers
 - State and Province
 - Country Boundaries (Detailed)
 - Country Boundaries
- Satellite Imagery
 - World Image (Resolution 150m)
 - World Image (Resolution 1km)

Refresh Map
 Auto Refresh Map

Wow! 180 Visitors as of Apr 12, 2006
Last update on Mar 14 2006

República Dominicana

Temporada de conteos/Survey Season	Sep - Nov	Dec - Feb	March	April
2004-05	7 102	16 657	964	1 131
2003-04	2 639	93 252	1 302	1 009
2002-03	2 329	65 56	2 563	1 070
2001-02	1 006	15 680	4 959	1 072
2000-01	8 537	35 090	4 867	413

2003-04 2004-05 Belize Colombia Costa Rica El Salvador Haiti Honduras

Internet

 www.ducks.org/conservation/lac

Servidor de Mapas

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Welcome to the
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nbi

U.S. FISH & WILDLIFE SERVICE

Latin American & Caribbean Program

* Information updated regularly - check back

Map Legend Related Links Help Metadata

LAYERS

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 - Directory of Neotropical Wetlands**
 - Ramsar Sites
 - IBA Stes (not yet available)
 - IWC Sites (not yet available)
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 - Country Boundaries
- Satellite Imagery
 - World Image (Resolution 150m)
 - World Image (Resolution 1km)

Refresh Map

Auto Refresh Map

Wow! 180 Visitors as of Apr 12, 2006
Last update on Mar 14, 2006

SITENAME: Laguna de Rincon (Laguna de Cabral)
COUNTRY: Dominican Republic
LATITUDE: 18°17'00"N
LONGITUDE: 071°15'00"W

www.ducks.org/conservation/lac



Servidor de Mapas

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Query/Selection Results - Microsoft Internet Explorer

Waterfowl Survey Sites

Rec	SITE NAME	COUNTRY	LATITUDE	LONG TUDE
1	Laguna Cedral	República Dominicana	18°16'53"N	071°14'47"W
2	Laguna de Oviedo	República Dominicana	17°46'38"N	071°21'51"W
3	Laguna de Nelson	República Dominicana	19°41'41"N	071°42'51"W
4	Laguna Geladilla	República Dominicana	19°09'02"N	071°42'48"W
5	Laguna Limón	República Dominicana	18°58'44"N	038°51'09"W
6	Arrozales de Nagua	República Dominicana	19°20'50"N	039°50'59"W
7	Presa de Rincón	República Dominicana	19°04'48"N	070°25'12"W
8	Zanja Sucia	República Dominicana	18°21'38"N	071°24'00"W
9	Laguna Pizo Mocho	República Dominicana	10°29'24"N	071°22'12"W
10	Lagos de Les Cayes (Kokoye et Lachaux)	Haiti	18°18'19"N	073°50'59"W
11	Dlo Gaye	Haiti	18°38'12"N	072°08'20"W
12	Lago de Miragoane	Haiti	18°23'28"N	073°03'48"W

[Go on to these records](#)

Waterfowl Survey Data Table for each site not yet available

Waterfowl Survey Country/Year Summaries [Click Here](#)

Wow! **180** Visitors as of Apr 12, 2006
Last update on Mar 14, 2003

 www.ducks.org/conservation/lac

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Welcome to the
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Map Legend Related Links Help Metadata

Links to Databases

- Waterfowl Surveys
- Wetland Inventory
- Directory of Neotropical Wetlands
- Pantanal Project
- [Ramsar Sites](#)
- [BirdLife International, Important Bird Areas \(IBA\)](#)
- [Wetlands International, International Waterbird Census \(IWC\)](#)

Wow! 100 Visitors as of Apr 12, 2006
Last update on Mar 14, 2006



www.ducks.org/conservation/lac

Inventario de Humedales

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Según la Convención de Ramsar, hay poca información básica sobre la localización y características de humedales

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“...como para documentar el alcance de la pérdida global que están sufriendo estos ecosistemas”.

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7% de los países tiene inventario nacional adecuado

25% de países no tiene

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Grupo de Consulta sobre Inventarios de Humedales



Inventario de Humedales

www.ducks.org/conservation/lac

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Home SUPPORT DU CONSERVATION HUNTING NEWS MEMBERS MULTIMEDIA EVENTS



DU Waterfowl ID Gallery

A Directory of Neotropical Wetlands

(PDF format)

[For the Spanish version - click here](#)

- CONSERVATION HOME
- WHERE WE WORK
- HOW WE CONSERVE
- WATERFOWL BIOLOGY
- HABITAT
- CONSERVATION POLICY
- LAND PROTECTION
- INTERNATIONAL
- CONTACTS

LAC Program Home
A Directory of Neotropical Wetlands *AVAILABLE*
Inventario Humedales R. Neotropical *DISPONIBLE*

Outside cover

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Country Reports:

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Inventario de Humedales

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**GLOBAL
CONTINENTAL**

**REGIONAL
LOCAL
SITIO**



Colaboraciones

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Wetlands International

Birdlife International

Convención de Ramsar

National Biological Information Infrastructure (NBII)

Inter-American Biological Information Network (IABIN)

Global Biodiversity Information Facility (GBIF)

Compliant with Open Geospatial Consortium





NBII - Search BioBot: Your Biological Search Agent for the Web - Microsoft Internet Explorer

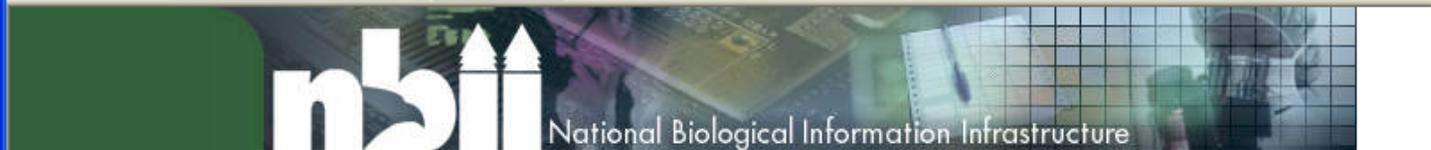
File Edit View Favorites Tools Help

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Address <http://www.nbii.gov/search/search.html>

Google iabin Search PageRank 162 blocked Check AutoLink AutoFill Options

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- Current Biological Issues
- Biological Disciplines
- Geographic Perspectives
- Teacher Resources
- Data & Information Resources
- Search
- Contact Us

Search NBII with BioBot

Enter Search Terms:



Search
[Search NBII](#) | [Search the NBII Metadata Clearinghouse](#)

This NBII site is developed and maintained by the
Center for Biological Informatics of the U.S. Geological Survey



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Database

Search Results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address http://159.189.176.5/portal/server.pl?n_h_space=NBIISearch&n_h_control=NBIISearchControl&n_h_results=true&n_cb_source=20&n_db_source=2016&n_tx_query=scaup&n_sj_b1=Search

Google iain PageRank 162 blocked Check Autolink Options iain

Y! Search Web Upgrade Now! Mail My Yahoo! Answers Fantasy Sports Holiday Games Music My Web

nbii National Biological Information Infrastructure

scaup Search | Test Only

[NBII Home](#)
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[Habitats](#)
[Ecological Topics](#)
[Geographic Perspectives](#)
[Toolkit](#)

Welcome to nbii.gov

707 Search Results For scaup

[ALL Results \(707\)](#)
[Species Profiles \(2\)](#)
[Maps & Data \(66\)](#)
[Images \(0\)](#)
[Organizations \(0\)](#)
[References & Publications \(27\)](#)
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[Additional Resources \(49\)](#)

NBII Resources Displaying Results 1 - 20 of 707

- [Declining scaup populations: a retrospective analysis of long-term population and harvest survey data](#)
We examined long-term databases concerning population status of scaup (lesser [Aythya affinis] and greater scaup [A. marila] combined) and harvest statistics of lesser scaup to identify factors potent
- [Incidents of Mixed Clutches Among Scaup and Ring-billed Gulls](#)
I observed two mixed clutches between scaup (Aythya spp.) and Ring-billed Gulls (Larus delawarensis). In the first, one Ring-billed Gull egg was found in a scaup nest with eight scaup-eggs and in the
- [Declining scaup populations: issues, hypotheses, and research needs](#)
The population estimate for greater (Aythya marila) and lesser (Aythya affinis) scaup (combined) has declined dramatically since the early 1990s to record lows in 1998. The 1998 estimate of 2.47 mill
- [Accumulation and mobilization of organochlorine contaminants in winterring greater scaup](#)
Analyses for chlorinated pesticides (α -BHC, Aldrin, DDD, DDE, DDT, Dieldrin, Endrin, and Hexachlorobenzene) and polychlorinated biphenyls (PCBs) of abdominal fat pad (AFP) and breast muscle tis
- [Direct recovery rates of lesser scaup banded in northwest Minnesota: Sources of heterogeneity](#)
Heterogeneity in direct recovery rates is an important area of study because deductions about survival rates and hunting mortality are made from recovery data. We tested the hypothesis of condition bi
- [Effects of hatching date and egg size on growth, recruitment, and adult size of lesser scaup](#)
Evidence suggests that birds breeding early in the season or laying larger eggs are at a selective advantage because quality and survival of their offspring are higher. We tested whether wild Lesser S
- [Food intake rates and habitat segregation of Tufted Duck, Aythya fuligula, and Scaup Aythya marila exploiting Zebra Mussels, Dreissena polymorpha](#)
The foraging skills of Tufted Duck Aythya fuligula and Scaup Aythya marila feeding on Zebra Mussels Dreissena polymorpha were studied in experiments under seminatural diing conditions with relevance
- [Patterns of variation in size and composition of greater scaup eggs: Are they related?](#)
We studied egg size variation of Greater nesting on the Yukon-Kuskokwim Delta, Alaska from 1991-1996. Mean egg size was 64.36 plus or minus 0.03 (SE) ml. Egg size did not vary with clutch size or zero
- [First Record of Brown-headed Cowbird Egg in a Lesser Scaup Nest](#)
On 16 June 1999, I found a Lesser Scaup (Aythya affinis) nest parasitized by a Brown-headed Cowbird (Molothrus ater). On 22 June the female scaup had begun incubating the 10 scaup eggs but the cowbird
- [Habitat suitability index model: Lesser scaup \(breeding\)](#)
This document is the published result, conclusion, or progress report of research performed by the staff of the U.S. Geological Survey, Fort Collins Science Center (FORT). Information used to prepare the metadata for this document was extracted from...
- [Rapid Increase and Subsequent Decline of Zebra and Quagga Mussels in Long Point Bay, Lake Erie: Possible Influence of Waterfowl Predation](#)
Distribution and density of two introduced dreissenid species of mollusks, the zebra mussel Dreissena polymorpha and quagga mussel D. bugensis, were monitored in the Inner Bay at Long Point, Lake Erie
- [Testing the Effectiveness of an Aquatic Hazing Device on Waterbirds in the San Francisco Bay Estuary of California](#)
Aquatic hazing devices recently have been developed as a possible means of deterring waterbirds from oil spills, thereby reducing casualties. However, the effectiveness of these devices has not been a
- [Does shooting disturbance affect diving ducks wintering on large shallow lakes? A case study on Lough Neagh, Northern Ireland](#)
Waterfowl hunting is widespread and common throughout Europe, affecting waterfowl populations directly through the kill and indirectly through disturbance. Freedom from such disturbance is an importan
- [Identification of greater scaup, Aythya marila, and lesser scaup, A. affinis, ducklings](#)
Both relative size and the nail-width described by earlier authors will distinguish the greater scaup (Aythya marila) from the lesser scaup (A. affinis) at all ages. These criteria are most useful if
- [Lesser Scaup \(Aythya affinis\)](#)
This species account discusses: distinguishing characteristics, distribution, systematics, migration, habitat, food habits, vocalizations, behavior (locomotion, maintenance, agonistic, sexual, social,
- [Foraging strategies and habitat use of sea ducks breeding in northeast Russia.](#)
Twelve species of sea ducks occur in northeast Asia. This paper examines habitat relationships and foraging strategies used by both diving and sea duck species. Greater Scaup Aythya marila are seen in
- [Nesting ecology of ducks at Eagle Lake, Lassen County, California](#)
The author collected data on duck nesting community composition, nest density, nesting chronology, nest cover, and nest success at Eagle Lake, Lassen County, California from 1990 to 1992. Lesser scaup
- [Time of day of ovulation by three duck species in subarctic Alaska](#)

Done Internet

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Address http://www.iabin.net/english/bioinformatics/biobot.shtml

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iabin
Inter-Americas Biodiversity Information Network

English Home Page
Página Principal en Español
Página Inicial em Português

About IABIN Governance Biodiversity Tools Thematic Networks Meetings and Workshops

This Page in English Esta Página en Español Esta Página em Português

Bioinformatics - BioBot

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BioBot: the Biological Search Engine for the Internet

The [National Biological Information Infrastructure \(NBII\)](#) has offered the BioBot tool to [www.IABIN.net](#) facilitates biodiversity informatics users that want to learn more about species and broader environmental issues.

BioBot has two distinct parts. The first is the main search interface, which offers a wide variety of options for finding information. For instance, users can indicate which of the Internet's leading biological information sources they want to employ (such as Biodiversity Web Sites, Publications and Citations, Biodiversity Metadata). Search types include a simple search, Boolean search, and phrase searches.

IABIN users can use BioBot to:

1. Search NBII and IABIN information, as it is included, as well as other biological information available on the Internet through sources. These vendors and others are currently indexing and harvesting information from a number of biological sites. BioBot builds upon this information, allowing users to easily access the biological information they want.
2. Combine BioBot with other biological information systems (in the near future), such as the Integrated Taxonomic Information System (ITIS), to learn species and taxonomic information (ITIS is the first comprehensive standardized reference for the scientific names of the flora and fauna of North America and surrounding oceans).
3. Include additional IABIN relevant content in native language (i.e. Spanish).
4. If you have content that needs to be included, please [e-mail us](#).



The Biobot search engine offers a wide variety of options for finding biological information.

- [Contact Us](#)
- [Join us at IABINfriends](#)
- [Create a link to our website](#)

Biodiversity Informatics





Prototype data portal Global Biodiversity Information Facility

BROWSE TAXONOMY

Kingdom: [Animalia](#)
 Kingdom: [Archaea](#)
 Kingdom: [Bacteria](#)
 Kingdom: [Chromista](#)
 Kingdom: [Fungi](#)
 Kingdom: [Plantae](#)
 Kingdom: [Protozoa](#)
 Kingdom: [Unspecified](#)
 Kingdom: [Viruses](#)

DATA PROVIDERS

[Taxonomic name](#)
[Specimen/observation](#)

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[Data by country](#)

GBIF REGISTRY

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ABOUT GBIF

The Global Biodiversity Information Facility (GBIF) is an international non-profit organisation to provide free and universal access to data regarding the world's biodiversity. To learn more about GBIF itself, visit the GBIF Communications Portal: www.gbif.org

A wide range of countries and organisations participate in GBIF and have made their data available here. These bodies maintain ownership for all of the data they share. Any feedback provided through this web site will be passed back to the data provider concerned.

ABOUT THIS PORTAL

This portal is a prototype service providing access to the two types of data which are already being shared through the GBIF Network:

- Taxonomic names.** GBIF developing an 'Electronic Catalogue of Taxonomic Names'. This will provide access to authoritative information about both scientific and common names for all organisms, and will integrate data from a wide range of different organisations. The portal already includes data for over 983,000 scientific names and 253,000 common names from the Catalogue of Life Partnership Annual Checklist. Some names are listed with the words 'Tentative position in taxonomy'. This indicates that the name is only known to the portal from specimen/observation records and should not be treated as authoritative simply on the basis of being listed here.
- Specimens and Observations.** The GBIF Network already provides access to over 40 million records of occurrences of different organisms. Many of these relate to specimens in natural history museums and herbaria around the world, or to living cultures of micro-organisms, but at least a third come from observations of wild organisms. Wherever possible these records include information about the locality where the organisms were found and are used to generate maps of the distribution of these occurrences. Counts of occurrence records are listed against the organism names to which they apply. For genera and taxa of higher ranks, these counts include only those occurrences which have been identified to the taxon concerned. For species these counts include all occurrences for the species and also for any included infraspecific taxa, as well as for any known synonyms.

This is a work in progress. Please explore what is already present and visit us again in the coming months as we integrate more data and provide more flexible interfaces to search and browse the data. The following icons are used on many pages in the portal:

-  [Send feedback on a data item to the original data provider](#)
-  [Get further details](#)
-  [Download data](#)

USE OF DATA

GBIF Participants have made their data available for use according to the terms of the GBIF Data Use Agreement. Please understand these terms





Earth

File Add Tools Help

Local Search Directions

18° 11', 127 05.34' W

Map data ©2006 Google

Parapetí (8B0004)
1092

Palmar de las Islas y las Salinas de San José (8B0005)
1093

Pantanal Boliviano (8B0006)
country: BOLIVIA
1175

Laguna Concepción (8B0007)
country: BOLIVIA
1181

Lagos Poopó y Uru Uru (8B0008)
country: BOLIVIA
638

Punta Patillo (SPA003)
country: PANAMA
1213

Bahía de Panamá (SPA004)
country: PANAMA
519

Golfo de Montijo (SPA001)
country: PANAMA

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US Government
Digital Globe Coverage

Map of Central America and the Caribbean region showing countries like Mexico, Central America, and the Caribbean islands. Numerous green circular markers are placed across the map, primarily in Central America and the Caribbean. Labels include Mexico City, Guatemala, El Salvador, Honduras, Nicaragua, Panama, Panama City, Colombia, Venezuela, Ecuador, and various Caribbean islands.

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Pointer: 10°11'03.07" N 76°35'16.16" W elev.: -122 ft

Streaming 100%

Eye alt: 2147.60 ft

Legend:
 Lodging
 Dining
 Roads
 Borders
 Terrain
 Buildings

Google Earth interface with navigation controls and a Windows taskbar at the bottom.



¡Gracias!



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