

TALLER I3B:  
DOCUMENTACIÓN DIGITAL EN BIODIVERSIDAD

Características Generales de BHL  
(Biblioteca del Legado en Biodiversidad)

Belo Horizonte, Brazil

William Ulate, Director Técnico de BHL

14 Abril 2015

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BHL is a vast library of life ...

BHL



**A Vast Library  
of Life**

Created in 2006 ...

BHL



... with 10 US and UK institutions



# With the goal of alleviating the “Taxonomic Impediment”

Specimen collections

Databases

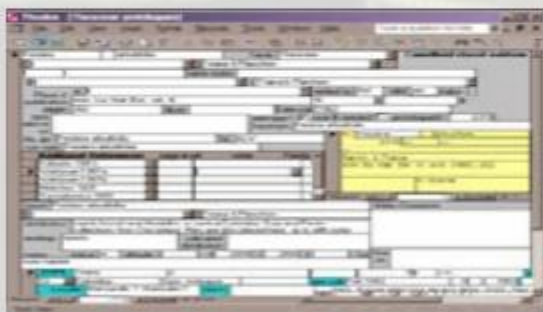
Publications

Observations

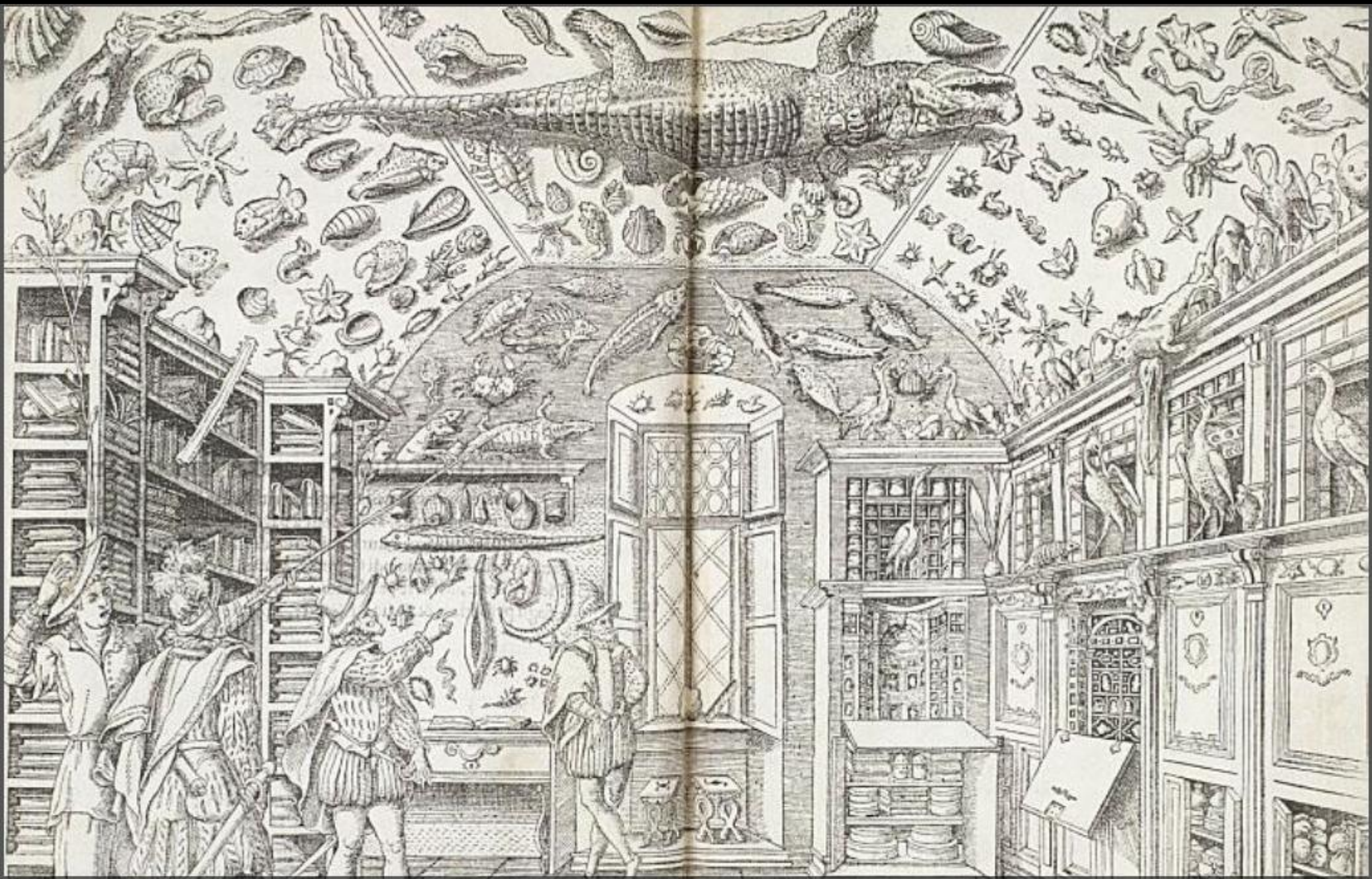
‘Gray’ literature

Index cards

Field notebooks







What is the content of biodiversity?





For BHL ...

# A global project that encompasses

**Technology**



**Libraries**



**Science**



**BHL**





# Committed to open access...

## Bouchout Declaration Signatory



Our natural world is a source of food, water, resources, protection and enjoyment that our society needs. The richness and complexity of nature, and the speed of new discoveries made possible by genomic and digital technologies, challenge us to find new ways to benefit from and be better custodians of the natural world. Digital information management systems can bring together the wealth of information now dispersed in a myriad of different documents, institutions, and locations. With such systems, we can harness the benefits of rapid discovery and open up our legacy of over 260 years of biological observations.

<http://bouchoutdeclaration.org>

/





BHL

BHL has now grown to 23 members and affiliates

BHL  
BHL

BHL

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BHL

BHL



And now has “global nodes” throughout the world



Europe, China, Brazil, Australia, Egypt,  
Sub-Saharan Africa, Singapore, & Mexico





# The most recent being BHL Mexico, through the participation of CONABIO



# 2014 BHL Annual Meeting

New York Botanical Garden | American Museum of Natural History





# Biodiversity Heritage Library Global Governance



Dr. Elycia Wallis



Dr. Jiri Frank



Dr. Nancy Gwinn



So how do we get from this ...





*Inspiring discovery through free access to biodiversity knowledge.*

The Biodiversity Heritage Library works collaboratively to make biodiversity literature openly available to the world as part of a global biodiversity community.

BHL also serves as the foundational literature component of the Encyclopedia of Life (EOL).

Search across books and journals, scientific names, authors and subjects



[ADVANCED SEARCH](#)

Browse Our Collection By:



Title



Author



Date



Collection



Contributor



## Help Support BHL

BHL's existence depends on the financial support of its patrons. Help us keep this free resource alive!

[Donate Now](#)

### New on the BHL Blog

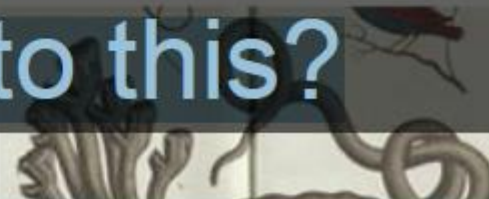
Latino Natural History:  
Recognizing the contributions of  
Latino naturalists

While there are plenty of accounts on the  
natural history of Latin America, many of the

### Today's Picks Flickr Stream



### Featured Collection Monsters Are Real



... to this?

# BHL Digitization Principles

Mass-digitization  
scanning operation

Scan books, cover-to-  
cover

Provide an exact digital  
copy of the original  
physical object

Provide article level  
access when  
possible






# And growth of content: 2007-2014



**45,721,826 pages**  
**158,636 items**  
**93,161 titles**  
**145K+ articles**

March 2015





Increase agreements  
with publishers of in  
copyright materials

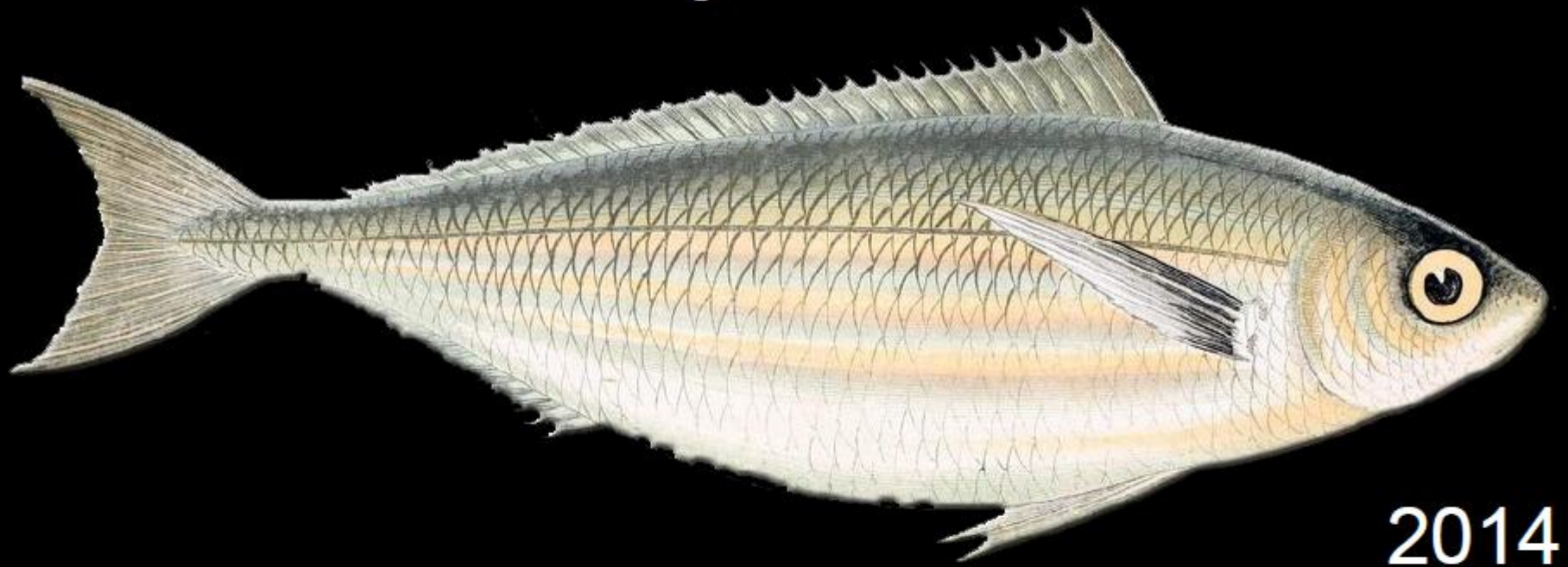
- ▶ 390+ titles
- ▶ 160+ publishers

March 2015



# And growth of users (2007-2014):

- 3,629,268 visitors
- 7,005,292 sessions
- 29,164,065 page visits
- 51% vs 48% new vs. recurring



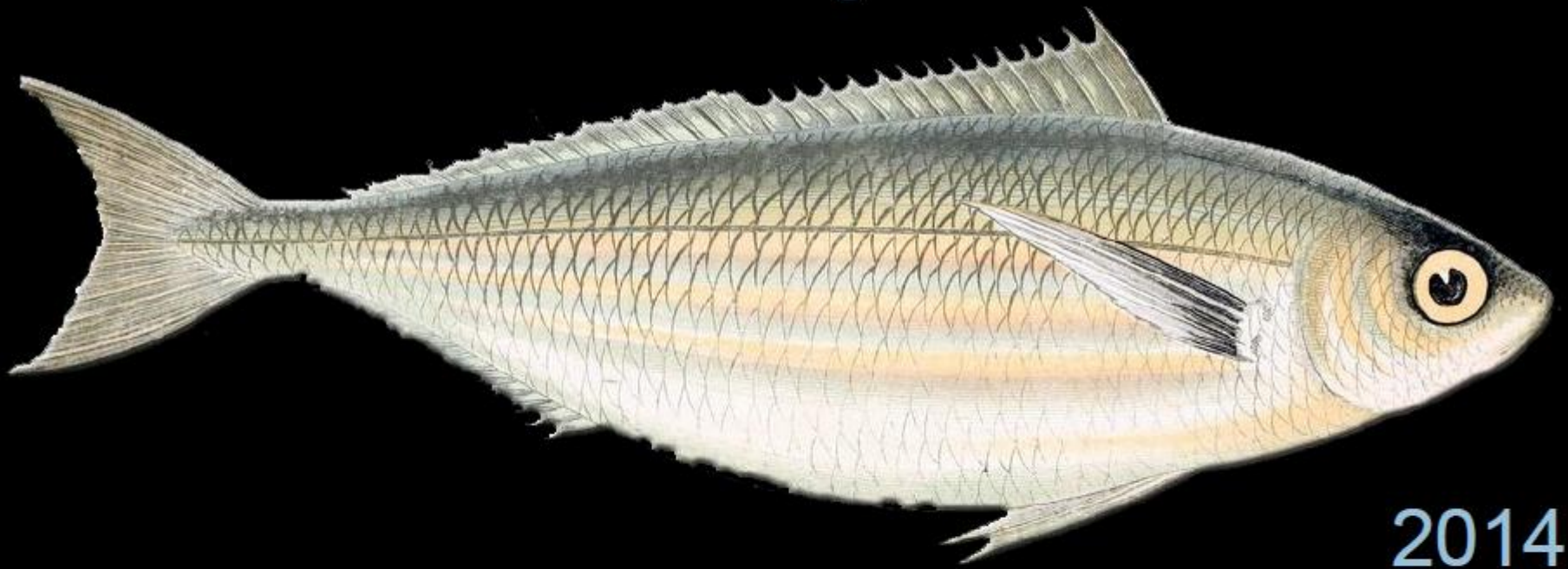
2014

151,944 visitors | March 2014

2007

## And growth of users (CY 2014):

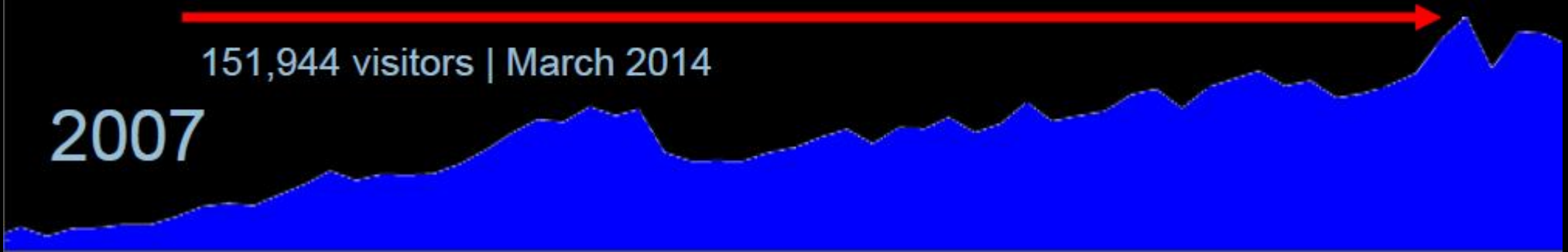
- 927,371 visitors
- 1,568,460 sessions
- 4.7m page visits
- 57.49% vs 42.51% new vs. recurring



2014

151,944 visitors | March 2014

2007







10.19% sessions(32% iPad)  
Mobile/Tablet Sessions CY 2014

5.96% sessions(45% iPad)  
Mobile/Tablet Sessions CY 2013



# TheMachineIsUs/ingUs

```
<Response
xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
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<Result>
<Item>
<ItemID>16800</ItemID>
<Volume/>
<Contributor>MBLWHOI Library</Contributor>
<Sponsor>MBLWHOI Library</Sponsor>
<Language>English</Language>
<LicenseUrl/>
<Rights/>
<DueDiligence/>
<CopyrightStatus/>
<CopyrightRegion/>
</Item>
```

**But many "visits" are  
from other machines**





## BIODIVERSITY HERITAGE LIBRARY ANNOUNCES PARTNERSHIP WITH DIGITAL PUBLIC LIBRARY OF AMERICA

Posted by [Kenny Whitebloom](#) on April 9, 2013 in [DPLA Updates](#), [Featured](#).

*April 9, 2013*

**Cambridge, MA** – The Biodiversity Heritage Library is pleased to announce that it will serve as a digital content hub within the Digital Public Library of America. The DPLA pilot project, which combines and centralizes links to the collections of participating cultural institutions, launches on April 18 in Boston.

As a result of BHL's participation as a digital content hub, links to over 111,000 BHL volumes will be available within the DPLA portal. Through the DPLA, the Biodiversity Heritage Library will collaborate with renowned libraries, universities, archives and museums to reach a wide national audience.

### RECENT BLOGPOSTS

[\*Press: Now, With No Further Ado,  
We Present... The Digital Public  
Library of America!\*](#)  
[\*HistoryPin Features the DPLA in  
its Pin of the Day\*](#)  
[\*DPLA: Coming Soon\*](#)

### SEARCH



[Return to search results](#)

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View item at  
[Smithsonian Institution Libraries](#)



Share



Cite on Wikipedia



Translate details

Select language ▾

The natural history of fishes, particularly their structure and economical uses. By J. S. Bushnan ... Illustrated by thirty-three coloured plates, with portrait and memoir of Salviani.

**Creator:**  
[Bushnan, J. Stevenson](#)

**Publication date:**  
1840.; 19th century CE

**Type:**  
[Text](#)

**Subject:**  
[1514-1572](#); [Ichthyology](#); [Salviani, Ippolito](#),

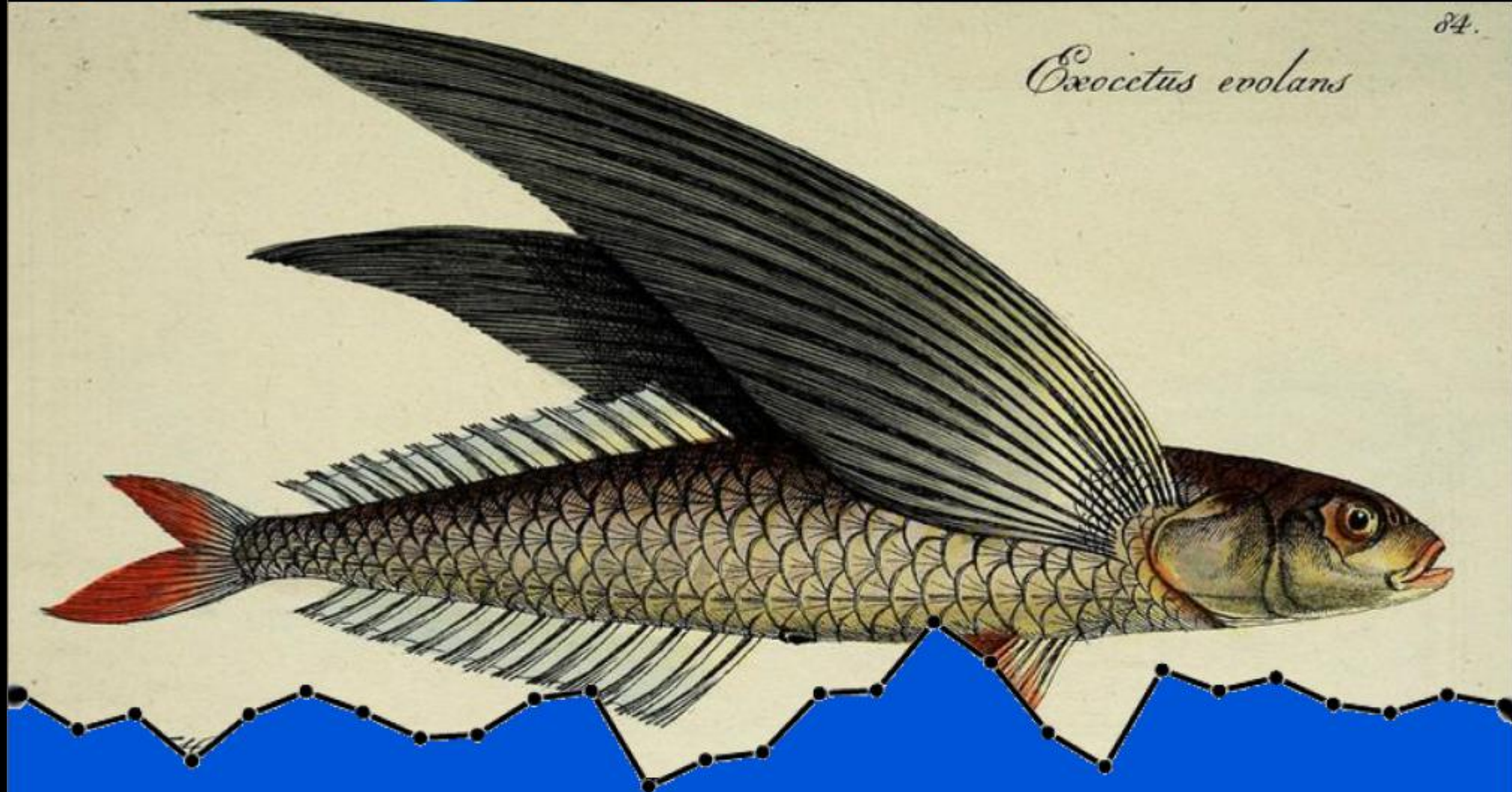
**Identifier:**  
[oai:eu.bhl:BHLUS:ITEMS/000000046137](#); [DLC agr03000062](#)

**Relation:**  
The natural history of fishes, particularly their structure and economical uses. By J. S. Bushnan ... thirty-three coloured plates, with portrait and memoir of Salviani.

**Language:**  
English



# flickr



27+ million visitors in total | 96K + images (2014)

11.02 x 8.27 in

## Correspondence : Agassiz (Louis) and Engelmann (George), 1849-1875.

### Pages

Jun 28, 1853 [1] transcription  
Jun 28, 1853 [2] transcription  
Jun 28, 1853 [3] transcription  
Jun 28, 1853 [1] translation  
Jun 28, 1853 [2] translation  
Jun 28, 1853 [3] translation  
Jul 12, 1853 [1]  
Jul 12, 1853 [1] **verso**  
Jul 12, 1853 [1] transcription  
Jul 12, 1853 [2] transcription  
Jul 12, 1853 [1] translation

[Show More](#)

### URL for Current Page

<http://biodiversitylibrary.org/page/42127789>

### Scientific Names on this Page

Jul 12, 1853 [1] verso

No Scientific Names found



6.25%



*Handwritten text in German, likely a letter from Louis Agassiz to George Engelmann. The text discusses the discovery of new species and the importance of the collection.*

*Printed transcription of the handwritten letter. It begins with 'Res. July 22' and 'Ans. July 28'. The text is in German and discusses the discovery of new species and the importance of the collection.*

And now increased archival content

- ▶ 500+ Field Notes
- ▶ Use of transcription tools





People of Note

sort all content by:

COUNTRIES

LANGUAGES

TIMELINE

SUBJECTS



About

Agustín Stahl

Carlos de la Torre y

Cleofé Calderón

Eduardo Caballero

Felipe Poesy

José Mociño

José Zeledón

Louis A. Fuentès

Ynes Mexia



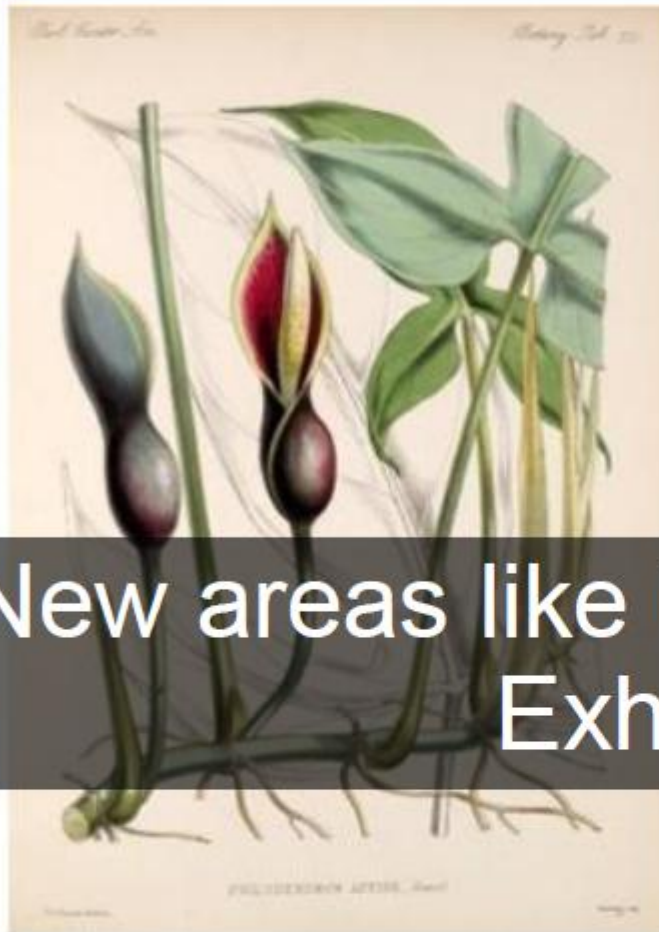
Smithsonian Libraries



Smithsonian Women's Committee



## About (Exhibition Overview)



### Did you know that... ?

- ... the Biodiversity Heritage Library (BHL) provides access to tens of thousands of titles with a combined page count of over 454 million?
- ... the Smithsonian Libraries hold more than 2 million volumes, over 36,000 of which have been digitized?
- ... the Smithsonian Women's

### Summary

### Highlights

# New areas like Biodiversity Library Exhibitions

of people from — Mexico, Cuba, Puerto Rico, Central America, often These Latino/a naturalists have influenced the study of the world's flora and fauna, and in many cases provided the foundation for the study of science in their home countries. Each

in any of the objects featured on the site, please consider consulting the [Latino Natural History collection](#) in the Biodiversity Heritage Library, as well as the list of resources consulted in the creation of this exhibition, which is included on the [BHL wiki](#).



Patella a. b.  
gowerk.  
omatus.  
the Patella.  
patella. a. b.  
age Patella a. b.  
Microph.





Thank You!

