

Institutional Council Meeting

BHL Technical Update

William Ulate

BHL US/UK Technical Director

Marine Biological Laboratory

Woods Hole, Massachusetts

May 6-7, 2013

BHL Technical Update

- Merge the BHL Australia website User Interface and the BHL-US/UK website Functionality
- The Global Names Architecture project (National Science Foundation)
- The Art of Life: Data Mining and Crowdsourcing the Identification and Description of Natural History Illustrations from the Biodiversity Heritage Library (National Endowment for the Humanities)

BHL Technical Update

- BHL AU-USome
- The NSF GNA project
- The NEH Art of Life project

BHL AU-USome

(thanks to B.Crowley for the name)

...Notes & News from the BHL Staff

THURSDAY, JULY 14, 2011

BHL goes live in Australia with launch of BHL-Australia site



BHL-Australia Screenshot


The newest addition to the BHL global family, BHL-Australia, has now launched. BHL in Australia is the digital literature component of the Atlas of Living Australia (ALA), a national project that aims to make biodiversity information more accessible and useable on line. It is a partnership between CSIRO, Australia's national science agency, the Australian natural

history collections community and the Australian Government.


The Australian node project is being managed through Museum Victoria, based in Melbourne. [Dr Elycia Wallis](#), the BHL Australia node team lead said "We are so pleased to have an Australian BHL node up and running. Now the fun part of developing new tools and functionality can start so that we can share these back to the global BHL community." The Australian node has taken the core BHL code and reworked it with a redesigned user interface. Designer Simon O'Shea and developer Michael Mason at Museum Victoria wanted to concentrate on providing the core functionality of BHL as well as giving an Australian feel to the site design by using

← → ↻ bhl.ala.org.au





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The Biodiversity Heritage Library–Australia is the digital literature component of the Atlas of Living Australia. BHL-Au also participates in the consortium of Biodiversity Heritage Libraries and affiliated literature digitisation projects around the world.

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London :Printed by order of the Trustees,1900.





Natural history of Victoria. Prod...
Melbourne,J.Ferres, government printer;1883-90.



Extinct and vanishing mammals ...
New York,American Committee for International Wild LI...



Eastern Rosella, *Platycercus eximius*,
John Gould's Birds of Australia, 1840-1848

  [Developer Resources](#) [Licensing & Copyright](#)

2011 Usability Test

- A list of key differences between user interfaces
- Feedback from (17) users on their preferences
- Usability Test Notes and Survey Summary
- Usability Test Report

BHL AU-USome (2012)

Usability Test Report

- Names
- OCR
- Illustrations
- More information on Species
- **Book Viewer**
- **Advanced Search**

BHL AU-USome

New US/UK functionality since 2011

Home page

- Featured Collections
- Browse by Collection
- Links on top right of main page
 - feedback, exports, members
- Now Online stats box on main page
- Recently Added view (never in BHL-AU)
- Twitter feed integration
- Blog integration
- Donate/Mailing List buttons
- Flickr images on home page

Other

- Social Media (Like/Tweet) buttons
- Advanced search interface
- DOIs added to bibliography page for titles
- Title variants in bibliography page for titles
- Schema.org markup added
- Darwin's Library annotation viewer
- Icon to "Add record to Mendeley library"



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BHL Blog

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BHL AU-USome

Article data model changes

- In the book viewer, display a list of articles contained in the book/journal being viewed. Pick one and navigate to the start page.
- Need a "landing page" for articles with article metadata.
- Link to the book viewer, an external location (a PDF in another repository), or nothing.
- Display Articles that match the search term in a new section of Search results.
- Add an option to "View Record" or "View Article".
- Browsing should include articles related, not only titles.

BHL AU-USome

- Advantages
 - AU and US share IDs across portals!
 - Model has been kept synchronized
- Disadvantages
 - US Code modified since AU launched
 - AU didn't incorporate certain functionality

BHL AU-USome

Proposed Timeline

1. DESIGN PHASE – Aug. 6 –24.

Input: Specifications/descriptions/notes about new features as soon as possible.

Outcome: A full suite of designs, that incorporate comments from the 2011 usability survey and incorporating any new features that you have planned or are already building.

2. COMMENT AND RESPONSE PHASE – Aug. 24 – Sep. 14.

Input: Comments to the suites of designs.

Outcome: Comments and responses to comments

3. FINAL SIGN OFF – Sep. 21

Output: The full suite of designs signed off by September 21, packaged, files transferred across to MOBOT.

4. Simon Sherrin VISIT TO Saint Louis, MO – Oct. 1 – 22.

Output: BHL US codebase adapted to incorporate new designs.

5. NEW DESIGN IN PRODUCTION – . Mar. 28

DESIGN PHASE



☆ First Phase of Designs

Edit 57 1 13 ...

+ New Post

Filter by Subject

Subject	Author	Replies	Views	Last Message
Vote for #21	dukeg1	3	49	Aug 22, 2012 2:48 pm by lipscombb
BHL 21	gwinnn	2	22	Aug 22, 2012 2:48 pm by lipscombb
BHL 21	kalfatovic	2	20	Aug 22, 2012 2:47 pm by lipscombb
BHL 19	kalfatovic	3	30	Aug 22, 2012 2:47 pm by lipscombb
comparing/contrasting designs	lipscombb	0	9	Aug 22, 2012 2:46 pm by lipscombb
Missing/changed elements	mlichtenberg	2	28	Aug 22, 2012 2:36 pm by lipscombb
Vote for #19	JFford10	1	26	Aug 22, 2012 12:19 pm by cwcarden
BHL 22	kalfatovic	1	22	Aug 22, 2012 12:11 pm by nolannybg
General --About button	gwinnn	1	14	Aug 22, 2012 11:52 am by ConnieR
finding the balance between AUS and US ...	trosesandler1	3	21	Aug 22, 2012 11:52 am by ConnieR
general comments	trosesandler1	8	27	Aug 22, 2012 11:50 am by ConnieR
Various things	joelrichard	0	14	Aug 22, 2012 8:57 am by joelrichard
How do the designs fit the rest of the ...	mlichtenberg	2	28	Aug 21, 2012 10:33 am by WUlate
BHL 20	kalfatovic	2	24	Aug 21, 2012 1:22 am by gwinnn
Welcome to the	trosesandler1	2	13	Aug 20, 2012 3:47 pm by lipscombb
which items on home page should carry t...	trosesandler1	2	15	Aug 20, 2012 3:31 pm by lipscombb
another one for #19	dianashih	0	12	Aug 20, 2012 2:13 pm by dianashih
Vote for #19	gilborrego	1	17	Aug 20, 2012 2:02 pm by ConnieR
general comments	trosesandler1	0	11	Aug 20, 2012 1:01 pm by trosesandler1
general comments	matt707	0	16	Aug 17, 2012 2:11 pm by matt707

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Usability Test

iTunes U

Gaming

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← → ↻ <https://bhl.wikispaces.com/message/view/First+Phase+of+Designs/55834398> ☆ 🦋 🔧

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★ First Phase of Designs

[Edit](#) [57](#) [1](#) [13](#) ...


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Vote for #19

 **JJFord10** Aug 17, 2012 1:38 pm
I agree with Connie, #19 with the least donation text is the cleanest. Nice job all around to the AU team! Also, as Mike said, the advanced search feature should be added in, either alongside or in lieu of the tabbed search.

Lastly, and this may not be possible but, I would love to be able to search the BHL by OCLC number as an added piece of functionality. It would be one more tool that I could leverage when merging records and checking for duplicates in the portal.

Thanks for all of the work that went in to this!
[\[delete\]](#)

 **re: Vote for #19**
cwcarden Aug 22, 2012 12:19 pm
I, too, concur that #19 is the cleanest and easiest for me to navigate, although I'm amused by the bird's beak pointing down toward the Donate box on #23 - maybe a little too obvious? I also don't imagine (although pardon my presumption if I'm wrong) that the birds need to be a permanent graphic on the page, but they can be occasionally rotated as a fixed element with other images from the collection (but not as a distracting slide show).

As JJ said, great work!
[\[delete\]](#)

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Congratulations to BHL-Europe
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My Life as a BHL Staffer: Michelle Abein
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Addisonia: colored illustrations and popular descriptions of plants.

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URL for Current Page

<http://biodiversitylibrary.org/page/4254470>

Scientific Names on Page:

Page No. 09

[Addisonia](#) [EOL]

[Campanula latifolia](#) [EOL]

[Campanula latifolia var...](#) [EOL]

[Campanulaceae](#) [EOL]

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ADDISONIA
 GUNDA BUNDELICHA
 Mughalabad Series
 State of the West Indies
 Family Campanulaceae. Species Newly
 Described
 (Plate 10, figs. 1-3)
 This species is a small tree or shrub, 10 to 15 feet tall, with a trunk 2 to 3 inches in diameter. The leaves are alternate, ovate, and have a serrated margin. The flowers are yellow and are borne in a terminal panicle. The fruit is a long, curved, woody pod, 10 to 12 inches long, and contains several seeds.

ADDISONIA
 GUNDA BUNDELICHA
 Mughalabad Series
 State of the West Indies
 Family Campanulaceae. Species Newly
 Described
 (Plate 10, figs. 4-6)
 This species is a small tree or shrub, 10 to 15 feet tall, with a trunk 2 to 3 inches in diameter. The leaves are alternate, ovate, and have a serrated margin. The flowers are yellow and are borne in a terminal panicle. The fruit is a long, curved, woody pod, 10 to 12 inches long, and contains several seeds.



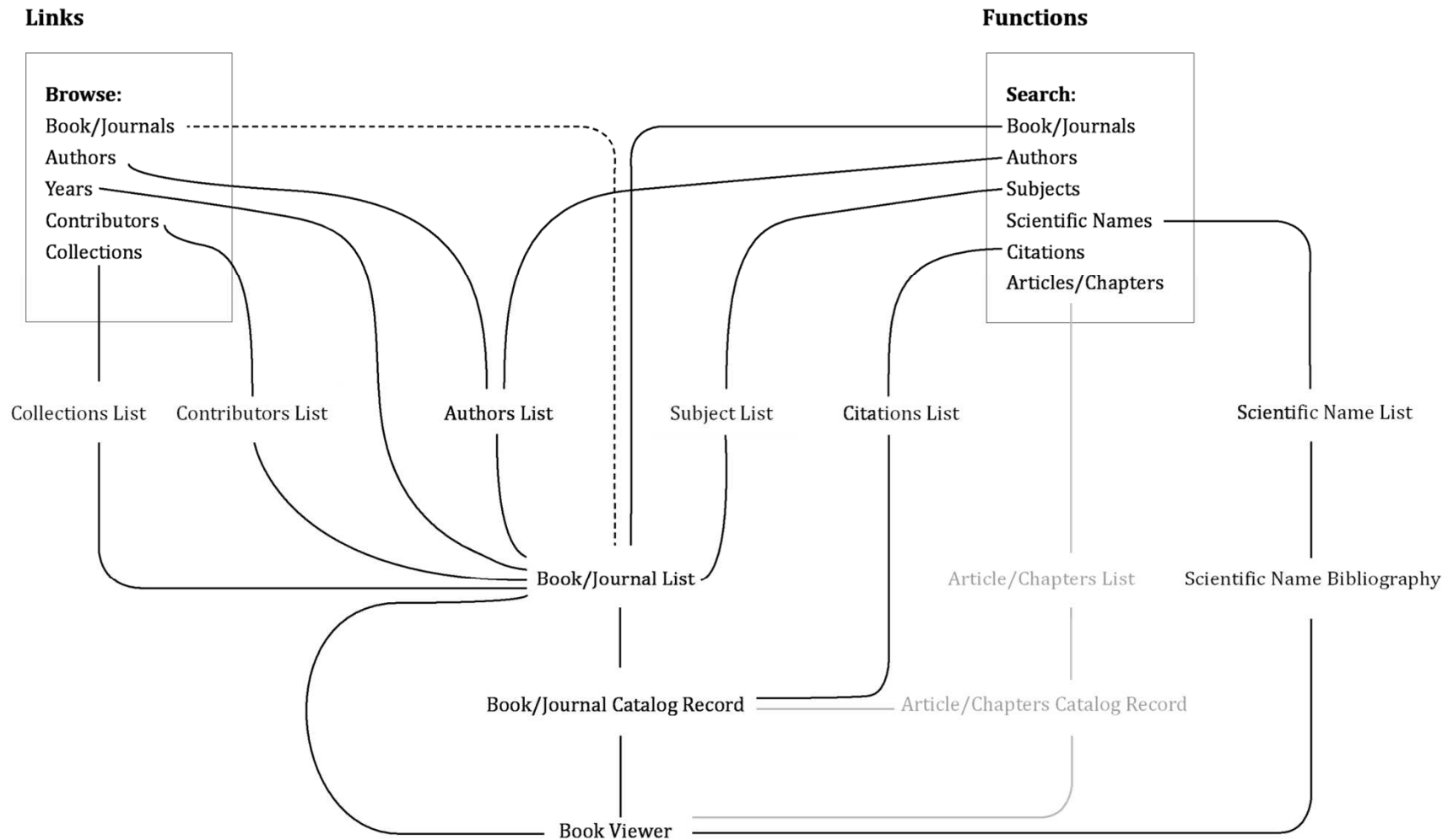
ADDISONIA
 GUNDA BUNDELICHA
 Mughalabad Series
 State of the West Indies
 Family Campanulaceae. Species Newly
 Described
 (Plate 10, figs. 7-9)
 This species is a small tree or shrub, 10 to 15 feet tall, with a trunk 2 to 3 inches in diameter. The leaves are alternate, ovate, and have a serrated margin. The flowers are yellow and are borne in a terminal panicle. The fruit is a long, curved, woody pod, 10 to 12 inches long, and contains several seeds.

ADDISONIA
 GUNDA BUNDELICHA
 Mughalabad Series
 State of the West Indies
 Family Campanulaceae. Species Newly
 Described
 (Plate 10, figs. 10-12)
 This species is a small tree or shrub, 10 to 15 feet tall, with a trunk 2 to 3 inches in diameter. The leaves are alternate, ovate, and have a serrated margin. The flowers are yellow and are borne in a terminal panicle. The fruit is a long, curved, woody pod, 10 to 12 inches long, and contains several seeds.

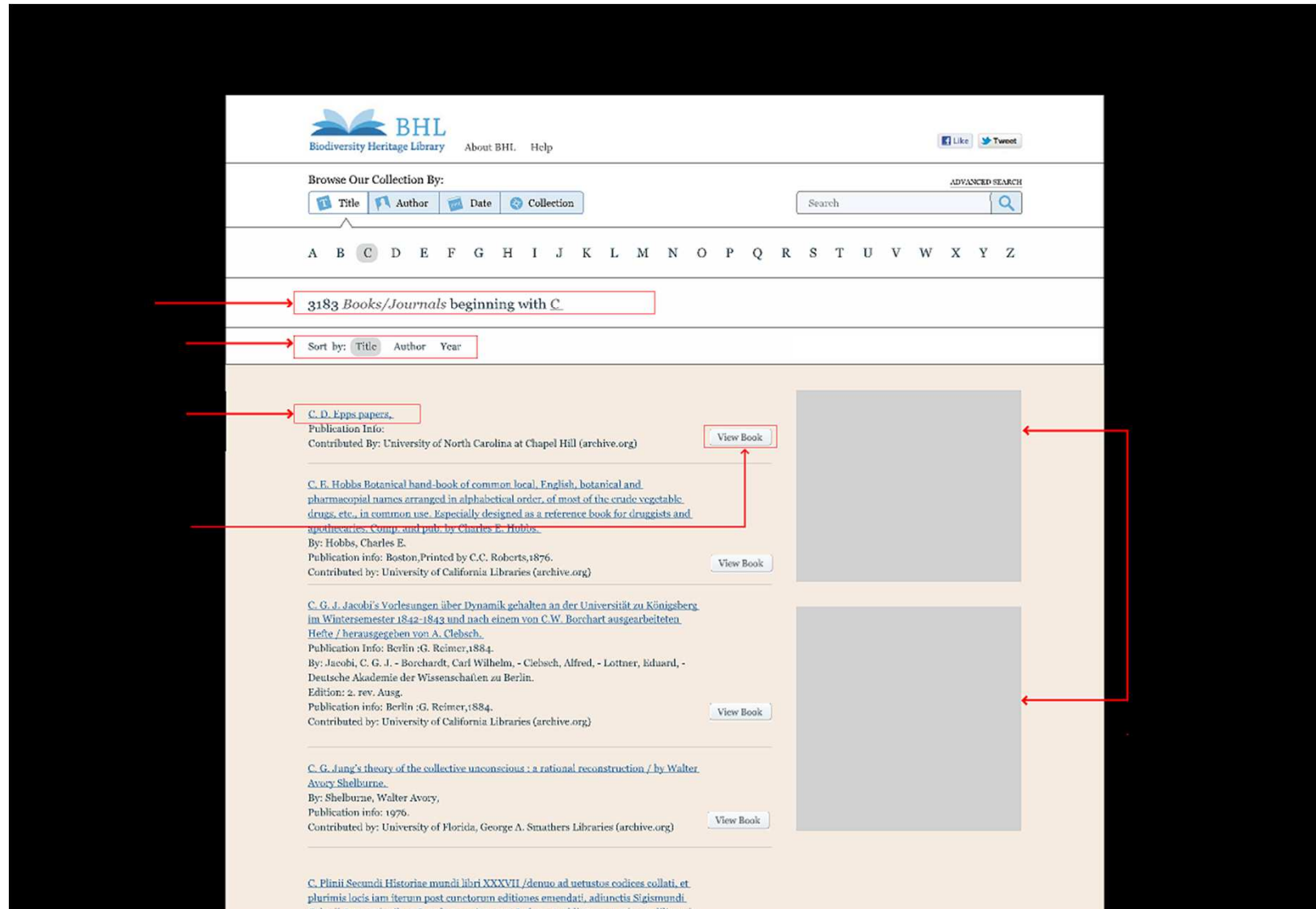


ADDISONIA
 GUNDA BUNDELICHA
 Mughalabad Series
 State of the West Indies
 Family Campanulaceae. Species Newly
 Described
 (Plate 10, figs. 13-15)
 This species is a small tree or shrub, 10 to 15 feet tall, with a trunk 2 to 3 inches in diameter. The leaves are alternate, ovate, and have a serrated margin. The flowers are yellow and are borne in a terminal panicle. The fruit is a long, curved, woody pod, 10 to 12 inches long, and contains several seeds.

Relations between links and functions



Wireframes of Different Layers




The image shows a wireframe of the Biodiversity Heritage Library (BHL) website. The layout is as follows:

- Header:** BHL Biodiversity Heritage Library logo, navigation links (About BHL, Help), and social media icons (Like, Tweet).
- Browse Our Collection By:** A row of buttons for Title, Author, Date, and Collection, followed by an Advanced Search button and a search input field.
- Alphabetical Index:** A row of letters from A to Z, with 'C' highlighted.
- Search Results:** A list of search results for books starting with 'C'.
 - Item 1: "3183 Books/Journals beginning with C." (Annotated with a red box and arrow).
 - Item 2: "C. D. Epps papers." (Annotated with a red box and arrow). Below it is the text "Publication Info: Contributed By: University of North Carolina at Chapel Hill (archive.org)" and a "View Book" button (Annotated with a red box and arrow).
 - Item 3: "C. F. Hobbs Botanical hand-book of common local, English, botanical and pharmacopial names arranged in alphabetical order, of most of the crude vegetable drugs, etc., in common use. Especially designed as a reference book for druggists and apothecaries. Comp. and pub. by Charles E. Hobbs." (Annotated with a red box and arrow). Below it is the text "By: Hobbs, Charles E. Publication info: Boston, Printed by C.C. Roberts, 1876. Contributed by: University of California Libraries (archive.org)" and a "View Book" button (Annotated with a red box and arrow).
 - Item 4: "C. G. J. Jacobi's Vorlesungen über Dynamik gehalten an der Universität zu Königsberg im Wintersemester 1842-1843 und nach einem von C.W. Borchart ausgearbeiteten Heft / herausgegeben von A. Clebsch." (Annotated with a red box and arrow). Below it is the text "Publication Info: Berlin :G. Reimer, 1884. By: Jacobi, C. G. J. - Borchardt, Carl Wilhelm, - Clebsch, Alfred, - Lottner, Eduard, - Deutsche Akademie der Wissenschaften zu Berlin. Edition: 2. rev. Ausg. Publication info: Berlin :G. Reimer, 1884. Contributed by: University of California Libraries (archive.org)" and a "View Book" button (Annotated with a red box and arrow).
 - Item 5: "C. G. Jung's theory of the collective unconscious : a rational reconstruction / by Walter Avory Shelburne." (Annotated with a red box and arrow). Below it is the text "By: Shelburne, Walter Avory. Publication info: 1976. Contributed by: University of Florida, George A. Smathers Libraries (archive.org)" and a "View Book" button (Annotated with a red box and arrow).
 - Item 6: "C. Plinii Secundi Historiae mundi libri XXXVII / denuo ad vetustos codices collati, et plurimis locis iam iterum post cunctorum editiones emendati, adiunctis Sigismundi Gelenii Annotationibus. In calce operis nomen Index est additus, non minore diligentia" (Annotated with a red box and arrow).

Red arrows on the right side of the page point to the "View Book" buttons for the second, third, and fourth items. A red line on the far right connects these buttons to a vertical line, indicating a common action or flow.

Wireframes of Different Layers

 <p>Biodiversity Heritage Library About BHL Help</p> <p>Like Tweet</p>
<p>Browse Our Collection By:</p> <p>ADVANCED SEARCH</p> <p>Title Author Date Collection</p> <p>Search</p>
<p>16 Citations for search Journal: Memoirs Melbourne Vol: 24 Page: 5</p>
<p>Memoirs of the National Museum, Melbourne. . (1) Melbourne :National Museum of Victoria,1906. Page 5.</p> <p>Memoirs of the National Museum, Melbourne.. ([1908-1944]) Melbourne :The Museum,Melbourne.. Page 5.</p> <p>Memoirs of the National Museum, Melbourne.. ([1908-1944]) Melbourne :The Museum,Melbourne.. Page 5.</p>

Portal

Welcome to the Biodiversity Heritage Library, a consortium of natural history and botanical libraries that cooperate to digitize and make accessible the legacy literature of biodiversity held in their collections and to make that literature available for open access and responsible use as a part of a global "biodiversity commons." BHL also serves as the foundational literature component of the Encyclopedia of Life (EOL).



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Authors



Date



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Charles Darwin's Library

Book Viewer

New illustration of the sexual system of Carolus von Linnaeus :and the temple of Flora, or garden of nature.

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Scientific Names on this Page

Text

No Scientific Names found

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STRELITZIA REGINÆ, OR, QUEEN-PLANT.

THIS is one of the many lovely productions imported from the Cape of Good Hope, introduced into our gardens by Sir JOSEPH BANKS, Bart. K. R. the illustrious and most indefatigable promoter of the science of Natural History. Its leaves are confusious and spoon-shaped, often undulated at the base, inwardly of a deep green, and outwardly beautifully glaucous. The flowers are of a bright orange, tripartitell, enclosed at first by two long membranous calyx leaves, which drop as the flower rises from the common spathe, and these appear in succession, each retiring backward, to give place to other flowers. These three petals of the corolla encompass the beautiful nectarium, which is diphyllous, that is, composed of two leaves, one shaped like an anchor exteriorly, and hollowed interiorly, inclosing in a groove the five stamina, remarkable for long anthers, through which duplicature also passes the style, whose triangular and pointed stigma, finally reaching beyond the bifid end of this part of the nectary, makes the anchor resemblance perfect. The other petal of the nectary is smaller, shaped like a rowl, and hooked. Nature here seems to aim at deception, the beaked spathe, upon its long and round stalk, or scape, gives the similitude of the head of some species of crane, and the flowers above feign its top-knot; and even the expert botanist at first sight might imagine that the purple nectary on one side was a stamen, with its barbed anther, and on the other the stigma, as in the orchis tribe: but upon dissection all this confusion vanishes, and it easily arranges under Class V. *PENTANDRIA*, Order I. *MONOGYNSIA*, of Linnaeus, each flower possessing five stamina, and one pistillum. We have been so fortunate as to be favoured with the following Verses on this Plant by the present *Poet Laureate*.

On Africa's southern steep, where Gama's sail
To the tempestuous clime was first unvail'd,
Courting with ample sweep the dangerous gale,
And op'd to Europe's sons the Eastern World.

Hence, beyond the Deut-Gods of Greece,
By Jason led, and urg'd by Orpheus' lyre,
Sinking through wilder seas a richer floce,
While warlike Cæsar's waik'd the epic wire.

Oh as the Gætic of the stormy main
From the high promontory view'd the wave,
He saw with daring prow Britannia's train,
The angry winds and mountains surges leave.

Groener's parental sway and Albion's laws
Spreading where Ammon's empire never spread,
To Thamus' Mast streams her stores while Commerce draws
From Ganges' Bramin groves and Indus' bed:

Sudden, a boozant *Fœced* meets his eyes,
Not launch'd by thist of wealth, or hope of fame,
Science alone directs the bold empiric,
Her eye their cynosure, her smile their aim.

Her *ferocious Fidelity* from the lap of ease,
From Ptolema's sycen vision, and Fortune's store,
Stares by unscap'd counts, through pathless seas,
The expanded Scenes of Nature to explore.

* A famous Portuguese Poet, Author of the *Lusitana*.

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Treatment-level metadata

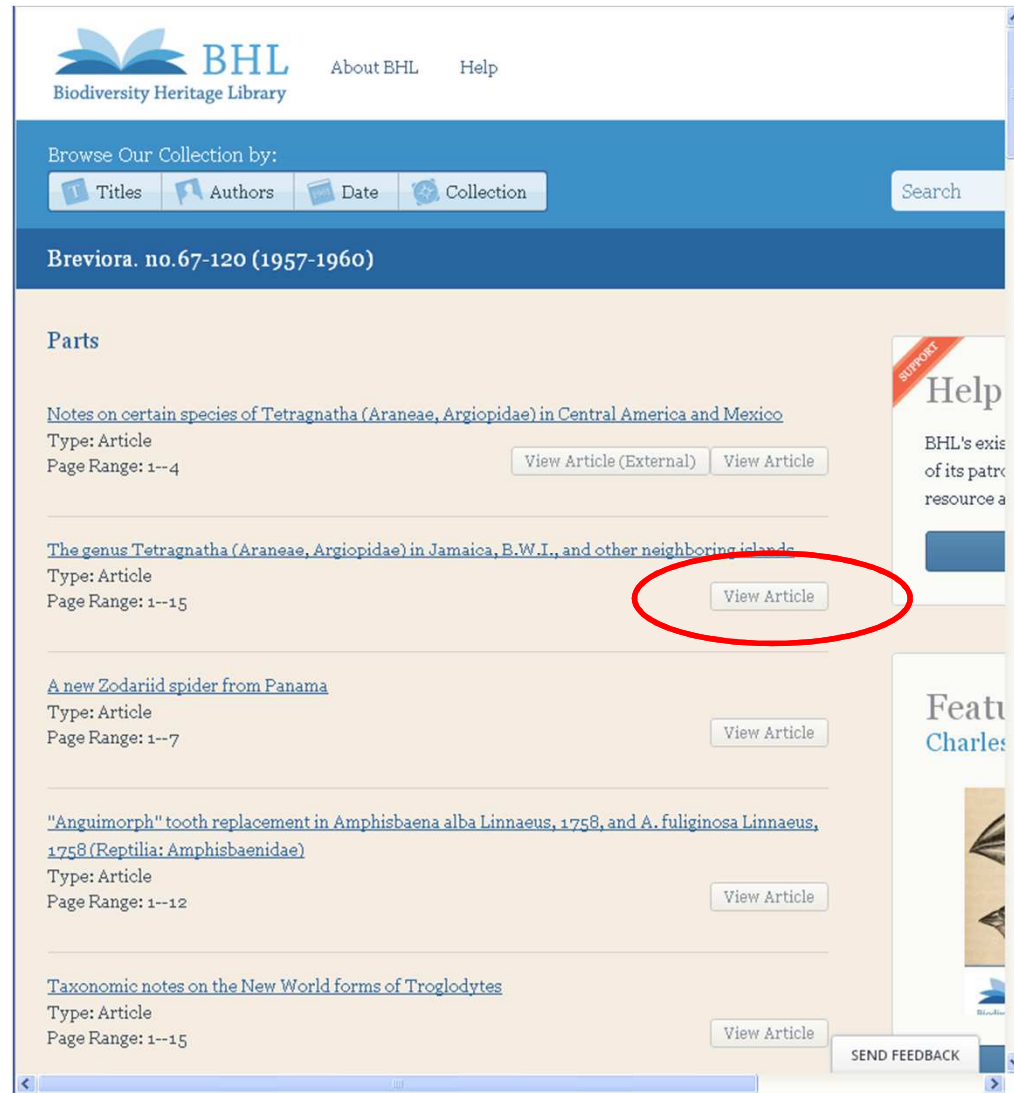
Article-level metadata

Chapter-level metadata

Part-level metadata

- Disambiguating and *locating* structural components in the corpus
- Done by automated *and* crowdsourced means
 - Thanks Rod Page! Welcome others!
- Greatly increases semantic value of the dataset
- Addressing important – makes data *addressable* and thus *linkable*

Articles in the BHL UI



The screenshot displays the Biodiversity Heritage Library (BHL) interface. At the top, the BHL logo and navigation links 'About BHL' and 'Help' are visible. Below this is a blue navigation bar with the text 'Browse Our Collection by:' and four buttons: 'Titles', 'Authors', 'Date', and 'Collection'. A search box is located on the right side of this bar. The main content area is titled 'Breviora. no. 67-120 (1957-1960)'. It lists several articles, each with a title, type, and page range. The second article, 'The genus Tetragnatha (Araneae, Argiopidae) in Jamaica, B.W.I., and other neighboring islands', has its 'View Article' button circled in red. Other articles include 'Notes on certain species of Tetragnatha (Araneae, Argiopidae) in Central America and Mexico', 'A new Zodariid spider from Panama', and 'Taxonomic notes on the New World forms of Troglodytes'. A sidebar on the right contains a 'Help' section and a 'Featured' section.

BHL
Biodiversity Heritage Library

About BHL Help

Browse Our Collection by:

Titles Authors Date Collection Search

Breviora. no. 67-120 (1957-1960)

Parts

[Notes on certain species of Tetragnatha \(Araneae, Argiopidae\) in Central America and Mexico](#)
Type: Article
Page Range: 1--4
[View Article \(External\)](#) [View Article](#)

[The genus Tetragnatha \(Araneae, Argiopidae\) in Jamaica, B.W.I., and other neighboring islands](#)
Type: Article
Page Range: 1--15
[View Article](#)

[A new Zodariid spider from Panama](#)
Type: Article
Page Range: 1--7
[View Article](#)

["Anguimorph" tooth replacement in Amphisbaena alba Linnaeus, 1758, and A. fuliginosa Linnaeus, 1758 \(Reptilia: Amphisbaenidae\)](#)
Type: Article
Page Range: 1--12
[View Article](#)

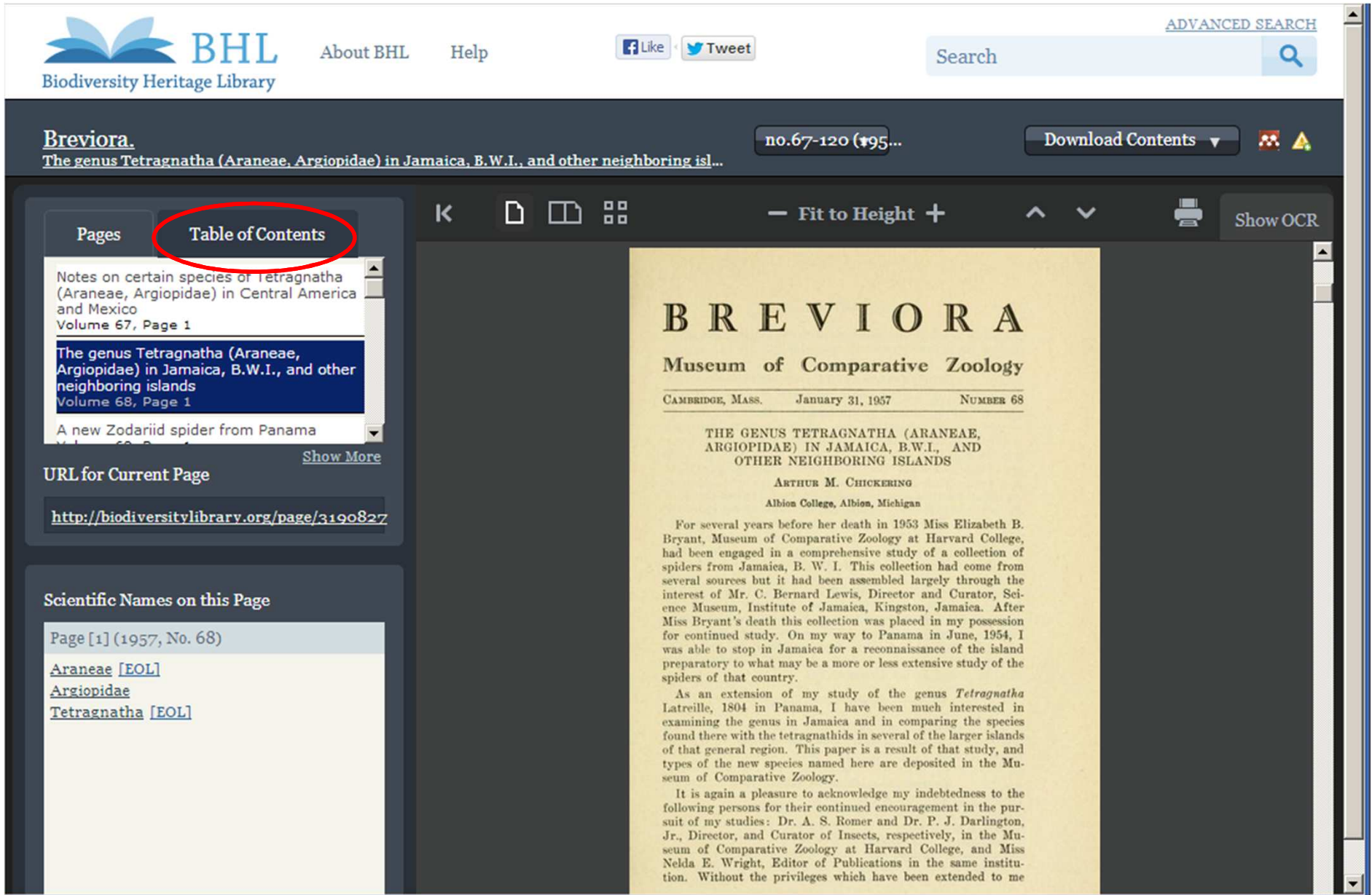
[Taxonomic notes on the New World forms of Troglodytes](#)
Type: Article
Page Range: 1--15
[View Article](#)

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Articles



The screenshot displays the Biodiversity Heritage Library (BHL) website interface. At the top, the BHL logo and navigation links (About BHL, Help) are visible, along with social media buttons for Facebook and Twitter. A search bar is located on the right side. The main content area features the article title "The genus *Tetragnatha* (Araneae, Argiopidae) in Jamaica, B.W.I., and other neighboring isl..." and a "Download Contents" button. A sidebar on the left contains a "Table of Contents" section, which is circled in red, listing the current page and other articles. Below this, there is a "URL for Current Page" field and a "Scientific Names on this Page" section. The main article content is displayed in a large, centered frame, showing the title "BREVIOIRA" and the author "ARTHUR M. CHICKERING".

Breviora.
The genus *Tetragnatha* (Araneae, Argiopidae) in Jamaica, B.W.I., and other neighboring isl...

no.67-120 (195...)

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<http://biodiversitylibrary.org/page/3190827>

Scientific Names on this Page

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BREVIOIRA
Museum of Comparative Zoology
CAMBRIDGE, MASS. January 31, 1957 NUMBER 68

THE GENUS *TETRAGNATHA* (ARANEAE, ARGIOPIDAE) IN JAMAICA, B.W.I., AND OTHER NEIGHBORING ISLANDS

ARTHUR M. CHICKERING
Albion College, Albion, Michigan

For several years before her death in 1953 Miss Elizabeth B. Bryant, Museum of Comparative Zoology at Harvard College, had been engaged in a comprehensive study of a collection of spiders from Jamaica, B. W. I. This collection had come from several sources but it had been assembled largely through the interest of Mr. C. Bernard Lewis, Director and Curator, Science Museum, Institute of Jamaica, Kingston, Jamaica. After Miss Bryant's death this collection was placed in my possession for continued study. On my way to Panama in June, 1954, I was able to stop in Jamaica for a reconnaissance of the island preparatory to what may be a more or less extensive study of the spiders of that country.

As an extension of my study of the genus *Tetragnatha* Latreille, 1804 in Panama, I have been much interested in examining the genus in Jamaica and in comparing the species found there with the tetragnathids in several of the larger islands of that general region. This paper is a result of that study, and types of the new species named here are deposited in the Museum of Comparative Zoology.

It is again a pleasure to acknowledge my indebtedness to the following persons for their continued encouragement in the pursuit of my studies: Dr. A. S. Romer and Dr. P. J. Darlington, Jr., Director, and Curator of Insects, respectively, in the Museum of Comparative Zoology at Harvard College, and Miss Nelda E. Wright, Editor of Publications in the same institution. Without the privileges which have been extended to me

Articles

Dashboard

Admin Functions

- [Alert Message](#)
- [Image Server](#)
- [Collections](#)
- [Institutions](#)
- [Languages](#)
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Library Functions

- [Titles](#)
- [Items](#)
- [Segments](#)
- [Pagination](#)
- [Authors](#)

Science Functions

- [Names \(Taxa\) on a Page](#)

Library Stats ?

	All Records	Active
Titles	61956	59349
Items	114985	113233
Pages	41397934	40786634
Segments	92520	92520
Items w/ Segments	7735	7602
Names	151877692	151249651
Unique Names	29313460	29117883
Verified Names	9327768	9276202

[Show EOL Names](#)
[Show Pages with EOL Names](#)

[Expanded Library Stats](#)

Growth Stats

	New This Year	New This Month
Titles	1594	0
Items	2893	0
Pages	727829	0
Names	49944795	0
Segments	13903	0

[Expanded Growth Stats](#)

PDF Generation Stats

Status	# Of PDFs
Generated	150401
Error	36
Declined	103

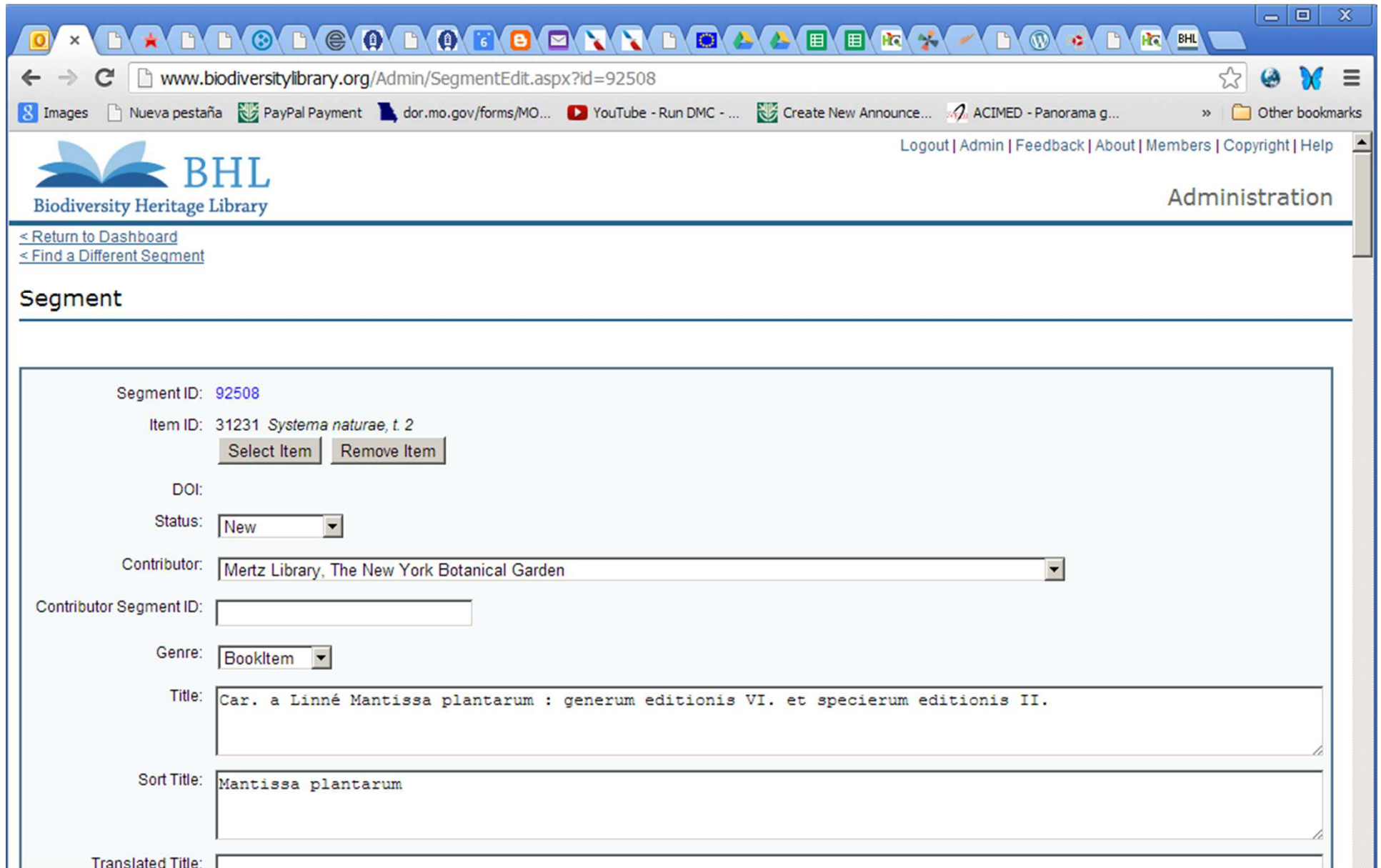
[Expanded PDF Stats](#)

IA Harvest Stats

BioStar Harvest Stats

DOL Assignment Stats

Articles



www.biodiversitylibrary.org/Admin/SegmentEdit.aspx?id=92508

Logout | Admin | Feedback | About | Members | Copyright | Help

BHL Biodiversity Heritage Library Administration

< Return to Dashboard
< Find a Different Segment

Segment

Segment ID: 92508

Item ID: 31231 *Systema naturae, t. 2*

DOI:

Status:

Contributor:

Contributor Segment ID:

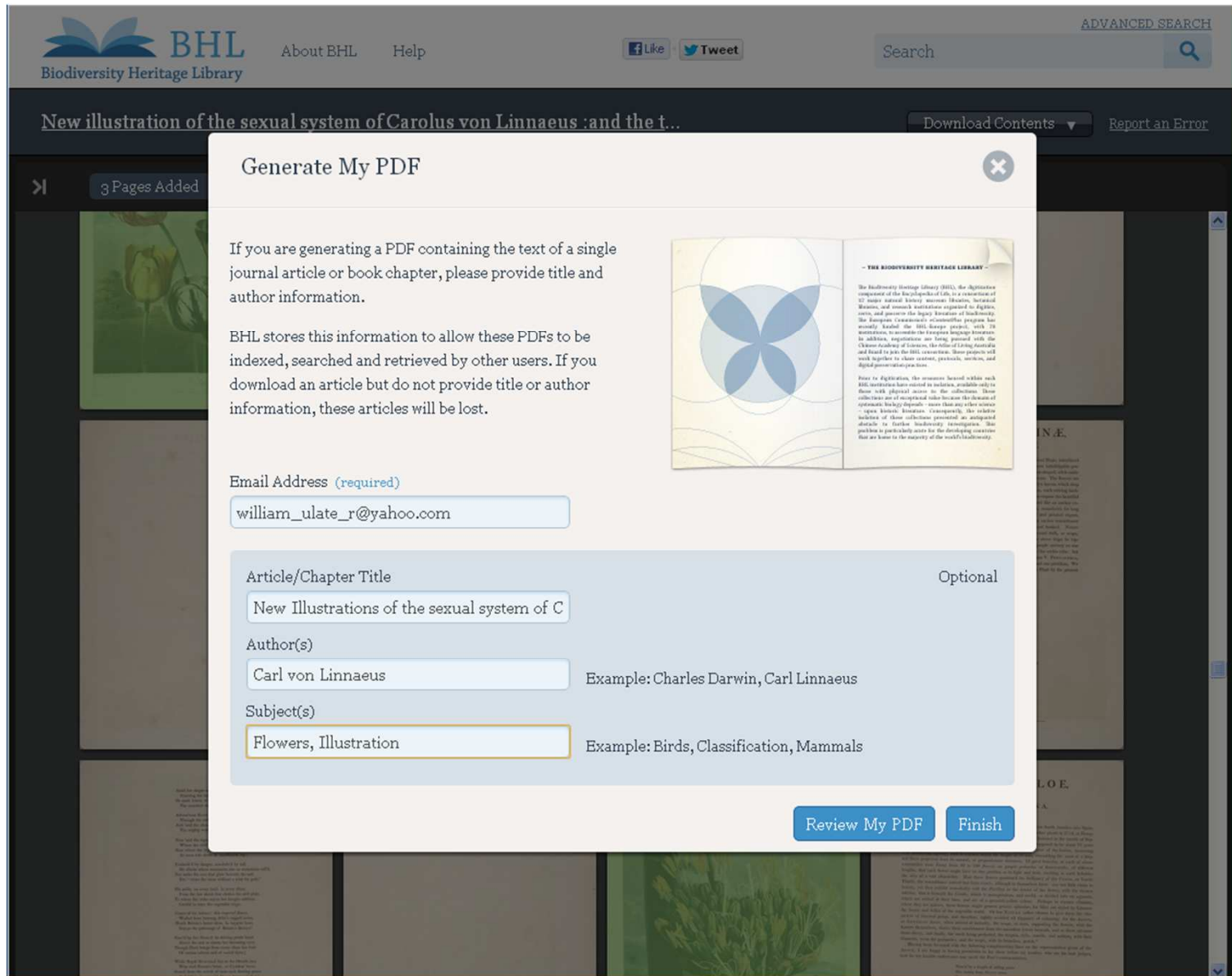
Genre:

Title:

Sort Title:

Translated Title:

PDF Generator



The screenshot shows the Biodiversity Heritage Library (BHL) website interface. At the top, there is a navigation bar with the BHL logo, "About BHL", "Help", and social media links for "Like" and "Tweet". A search bar is located on the right side. Below the navigation bar, a header section displays the title of a document: "New illustration of the sexual system of Carolus von Linnaeus : and the t...". To the right of the title are buttons for "Download Contents" and "Report an Error".

A modal window titled "Generate My PDF" is open in the center of the page. It contains the following text and form fields:

Generate My PDF

If you are generating a PDF containing the text of a single journal article or book chapter, please provide title and author information.

BHL stores this information to allow these PDFs to be indexed, searched and retrieved by other users. If you download an article but do not provide title or author information, these articles will be lost.

Email Address (required)

Article/Chapter Title Optional

Author(s)
 Example: Charles Darwin, Carl Linnaeus

Subject(s)
 Example: Birds, Classification, Mammals

At the bottom of the modal are two buttons: "Review My PDF" and "Finish".

Topics with the TAG

1. Making Tabs more prominent & choose the first one with data.

2. Reinstate the "Contributing Library" in the book viewer.

3. Too many Volumes...

4. Lists are too long.

5. Assign DOIs to articles.

6. Citations that link to no content.

7. PDFs are too big

NSF GNA Project

Citation Services in BHL

Citation services according to GNA

- Fulfill the role of the global repository for bibliographic citations relating to biodiversity.
- Provide an open environment for sharing and disseminating citations that suit taxonomists (series, volumes, articles, pages, and treatments.).
- Coming from multiple sources, raw citations are not standardized and reconciliation services must be provided to map variant forms together.

Citation services according to GNA

- The Citebank platform contains the aggregated bibliographies of BHL, other digital libraries, publishers, institutional repositories, and contributed bibliographies from specialist groups.
- Citebank is built from the open-source publishing framework Drupal and includes community-authored components for the management of bibliographic citations.

Where are we?

- Articles
 - Extend BHL data model to store article metadata
 - Build process to harvest data from BioStor
- Create user interfaces for adding article metadata and associated files
 - Define functional requirements
 - Define process flow for adding article metadata and associated files
 - Implement UI changes
- Change BHL UI to accommodate article search
- Change BHL UI to accommodate article display (TOC)

Where are we?

- Link Out
 - Extend BHL data model to link out to titles and items in other systems
 - Create user interfaces for adding links out to titles & items in other systems
 - Adjust BHL web display to show links out to titles & items in other systems
- Name-finding Improvements
 - Enhance name finding algorithms
 - Review changes to BHL data model to accommodate enhancements
 - Review changes to BHL UI to accommodate enhancements

Where are we?

- Citation reconciliation
 - Augment existing BHL APIs to return article metadata and associated files
 - Respond to requests for improvements from ZooBank & IPNI & Index Fungorum

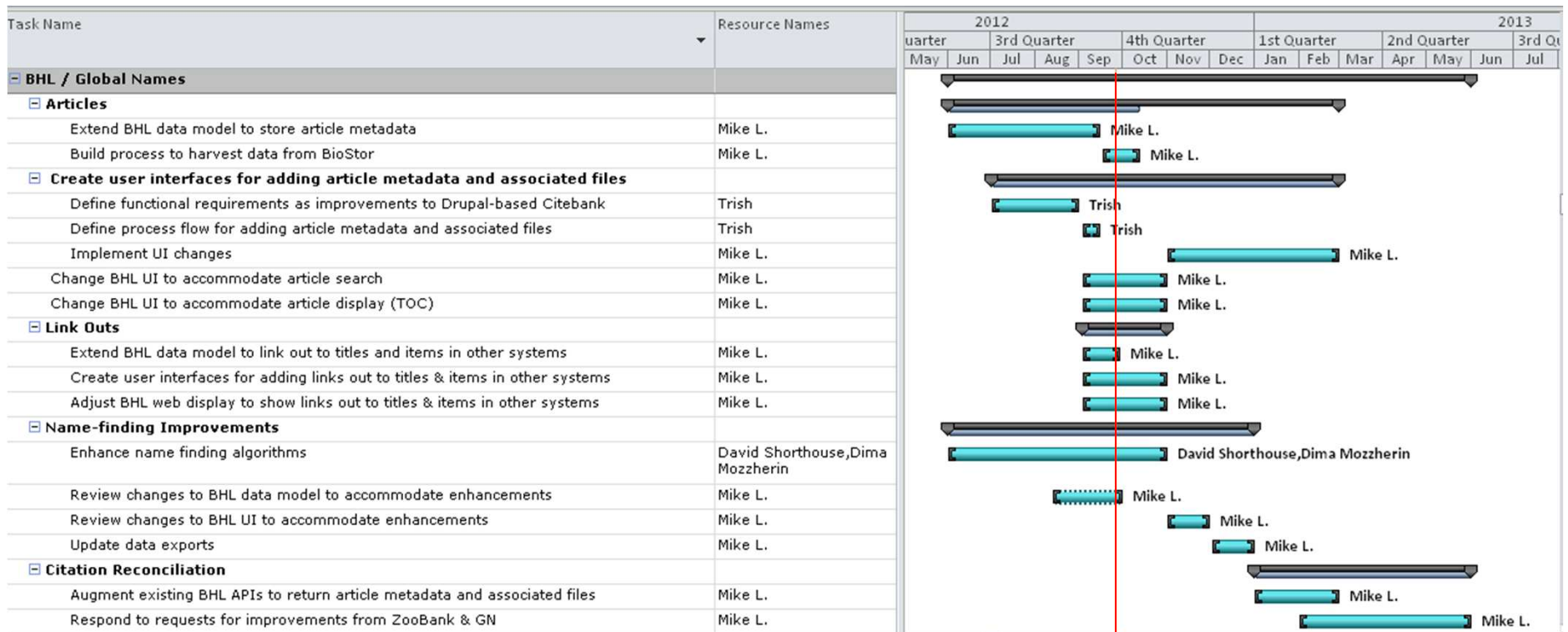
Where are we going?

- Citation Reconciliation
 - merging citations with the same title; (for example, an author publishing the next segment with the same title or the same title over and over)
- Crowdsource corrections and contributions
 - Consider expanding security (login user accounts)

Functional requirements for a citation repository

- **IMPORTING (Administrator)**
- **IMPORTING (General User)**
- **RECORD CREATION (General User)**
- **RECORD EDITING (General User)**
- **USER MANAGEMENT (Administrator)**
- **BROWSE (General User)**
- **CITATION TYPES**
- **OAI HARVESTING**
- **SPECIFICATIONS FOR DATA PROVIDERS PAGE**
- **CONTRIBUTORS PAGE**
- **REPORTING**
- **GLOBAL UPDATES (Administrator)**
- **RELATIONSHIPS BETWEEN CONTENT FILES AND CITATIONS**
- **FIELDS**

Global Names



One year no-cost extension requested

The Art of Life

Data Mining and Crowdsourcing the Identification and Description of Natural History Illustrations from the Biodiversity Heritage Library








What is Art of Life?

- Grant given to Missouri Botanical Garden in St Louis, to work with Indianapolis Museum of Art and University of Colorado Boulder.
- Funded by National Endowment for the Humanities
- With support of staff from BHL (SIL)
- Runs May 2012-April 2014




www.flickr.com/photos/biodivlibrary/

































flickr[®] from YAHOO!

Signed in as trosesandler   Help  Get Pro

Home You Organize & Create Contacts Groups Explore Upload

BHL **BioDivLibrary's photostream** pro

[Collections](#)
[Sets](#)
[Galleries](#)
[Tags](#)
[People](#)
[Archives](#)
[Favorites](#)
[Profile](#)
 Add BioDivLib... as a contact

							
Dictionnaire pittoresque... 67 photos	The Macrolepidoptera of the... 89 photos	Ferns: British and exotic v.1 50 photos	Résultats des campagnes... 6 photos	Die Schmetterlinge in... 47 photos	The civil and natural... 48 photos	Familiar wild birds v.2 40 photos	The Pomological magazine v.1 48 photos
							
The Mastodon giganteus of... 28 photos	Histoire naturelle,... 15 photos	Notes on the birds of... 7 photos	Neues systematisches... 34 photos	Monographia Psittacorum 6 photos	Faune des vertébrés de la... 5 photos	Dreyhundert auserlesene... 100 photos	The gallinaceous game birds... 46 photos
							
Illustrations of natural... 50 photos	Histoire naturelle des... 58 photos	Illustrations of the family... 42 photos	The wild beasts of the... 46 photos	Nouveau recueil de planches... 122 photos	Verzameling van uitlandsche... 52 photos	Researches concerning the... 18 photos	Entomologie, ou, Histoire... 190 photos
							



5 Primary Objectives of Art of Life

Objective 1: Define an appropriate metadata schema for natural history illustrations

Objective 2: Build software tools to automatically identify illustrations in the BHL corpus

Objective 3: Enhance existing tools to enable the initial sorting, viewing, and editing of these identified visual resources.

Objective 4: Integrate tagging applications to enable a community of users to edit descriptive metadata for the illustrations

Objective 5: Integrate the descriptive metadata generated by users back into BHL portal both for access and preservation

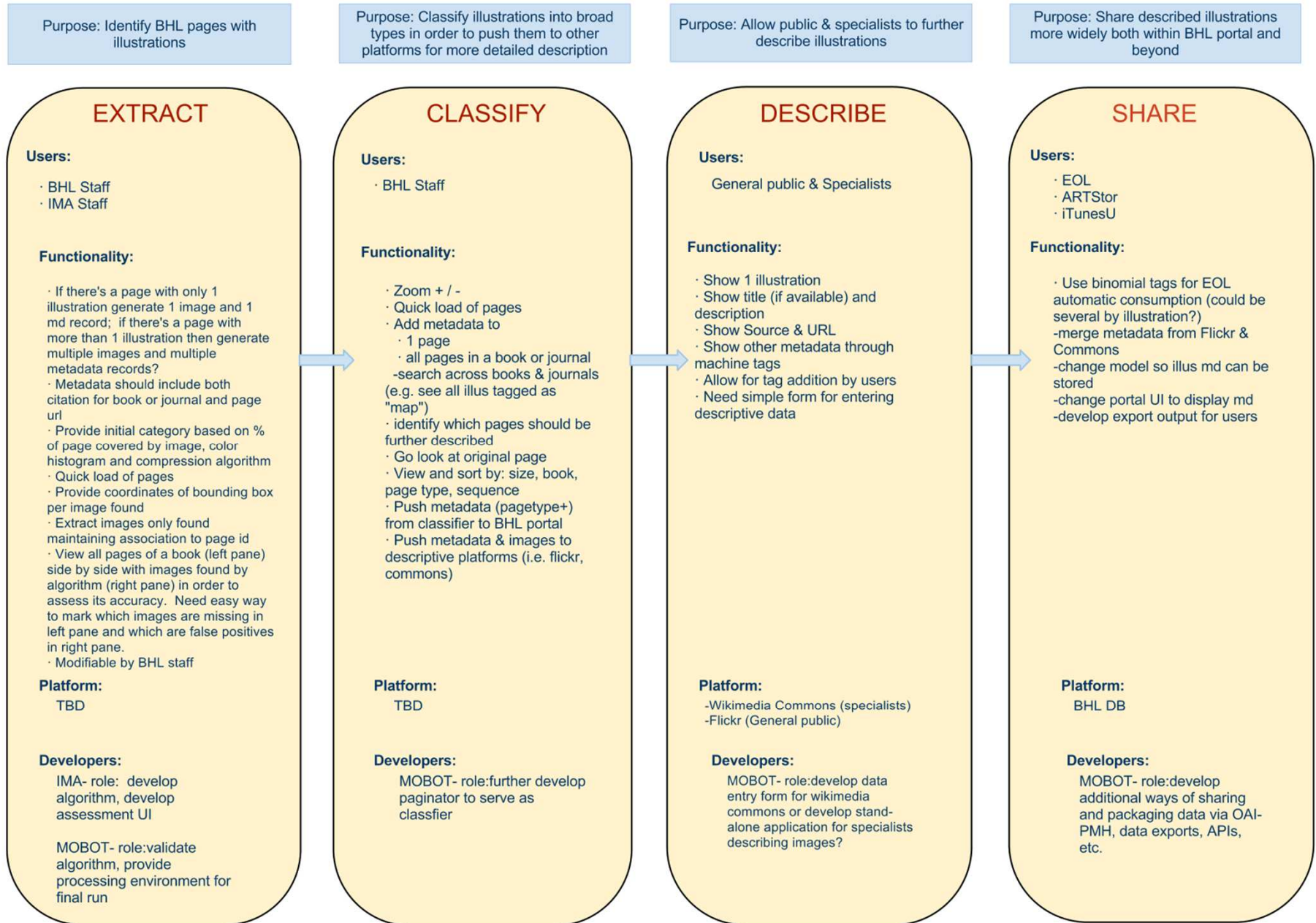
The Art of Life

Data Mining and Crowdsourcing the Identification and Description of Natural History Illustrations from the Biodiversity Heritage Library



Title	Amandava formosa
Type	Illustrations
Date	<i>Publication:</i> 1898
Agent	<i>Publisher:</i> Arthur G. Butler (1844-1925) <i>Illustrator:</i> F.W. Frohawk (1861-1946)
Description	A pair of finches with green and yellow bodies resting on reeds
Subjects	<i>Scientific name:</i> Amandava formosa (Latham, 1790) <i>Vernacular Name:</i> Green Avadavat or Green Munia <i>Accepted Name:</i> Estrilda formosa Birds, finches
Inscriptions	<i>bottom center:</i> Green Amaduvade Waxbill (<i>Stictospiza formosa</i>)
Source	Butler, Arthur Gardiner. Foreign finches in captivity. HullBrumby and Clarke, limited, 1889 (2nd edition). This image comes from the Biodiversity Heritage Library , and is available online at biodiversitylibrary.org/page/17195895
Rights	Public domain

ART OF LIFE workflow diagram





Current status of Art of Life

- Development of the algorithm is about 90% complete and will be done by May 2013
- Draft schema for describing natural history illustrations available for public review <http://tinyurl.com/9hm7nsb>
- Classifier tool – in progress



Current status of Art of Life

- Algorithm – due to significant staff changes at the Indianapolis Museum of Art the algorithm work was delayed this spring but we are now in the final stages of the algorithm work where we are identifying which of the 4 algorithms that were developed are performing most effectively on the test set. We are working the staff at MBL Woods Hole to work out procedures for running the algorithm across the entire corpus.
- Classifier – Joel Richard has modified the Macaw tool that he developed for paginating and it will be used by BHL staff to do some basic classification of page images (e.g. photos, drawings, maps, etc) before the pages are sent to tagging environments such as flickr and Wikimedia commons



Current status of Art of Life

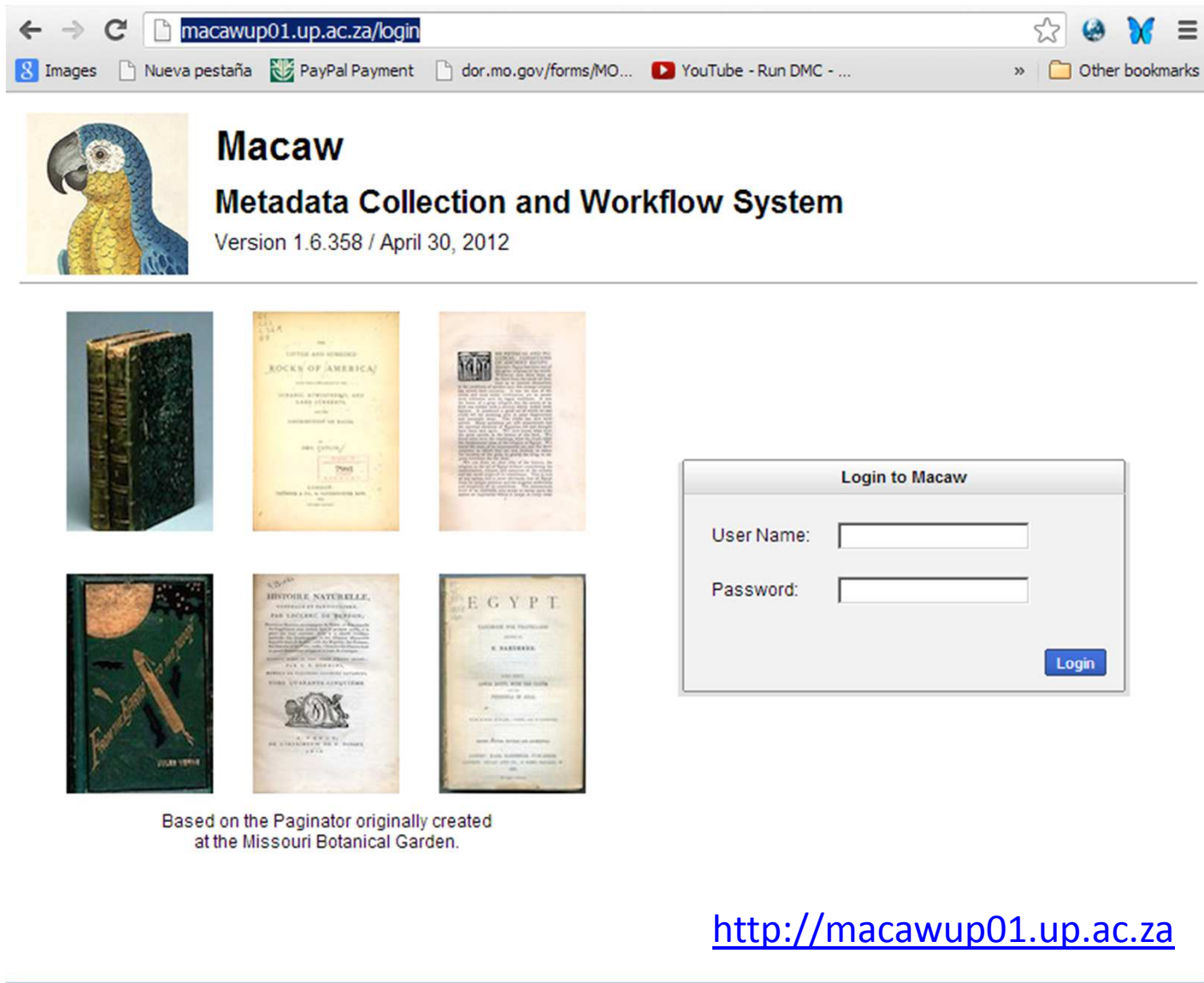
- Held first Advisory Board meeting in January which was very successful and received good feedback.
- Members include:
 - *Doug Holland*, Director, Missouri Botanical Garden Library
 - *Dr. Hong Cui*, Assistant Professor, University of Arizona
 - *Dr. David Kohn*, Director and General Editor, Darwin Manuscripts Project, American Museum of Natural History
 - *Charles Miller*, Chief Information Officer, Missouri Botanical Garden
 - *Nancy Gwinn*, Director, Smithsonian Institution Libraries
 - *Robert Guralnick*, Associate Professor at the University of Colorado at Boulder
 - *Betty Smocovitis*, Professor of Zoology and History at the University of Florida



Presentations on Art of Life

- Biodiversity Informatics Standards Annual Conference, Beijing, China. Oct 2012, [The Art of Life Schema: describing and providing access to natural history illustrations from the Biodiversity Heritage Library \(BHL\)](#), William Ulate, Trish Rose-Sandler, Gaurav Vaidya, Robert Guralnick
- Museums and the Web conference, Portland, OR Apr 2013, [More than just a pretty picture: improving the discoverability of illustrations in the Biodiversity Heritage Library \(BHL\)](#), Gilbert Borrego, Grace Costantino, Bianca Crowley, Kyle Jaebker, Trish Rose-Sandler
- Visual Resources Association conference, Providence, RI, Apr 2013 , [A Case Study of The Art of Life: Data Mining and Crowdsourcing the Identification and Description of Natural History Illustrations from the Biodiversity Heritage Library](#), Trish Rose-Sandler
- St Louis Regional Library Network (SLRLN) Tech Expo, St Louis MO Mar 2013, [The Art of Life: Data mining and crowdsourcing the identification an description of natural history illustrations from the Biodiversity Heritage Library](#) Trish Rose-Sandler


Macaw



The screenshot shows a web browser window with the address bar containing macawup01.up.ac.za/login. The browser's bookmark bar includes 'Images', 'Nueva pestaña', 'PayPal Payment', 'dor.mo.gov/forms/MO...', and 'YouTube - Run DMC - ...'. The main content area features a parrot illustration, the title 'Macaw Metadata Collection and Workflow System', and the version information 'Version 1.6.358 / April 30, 2012'. Below this is a grid of six book covers: a dark green leather-bound book, the title page of 'ROCKS OF AMERICA', a page of text with a small illustration, a book cover with a green background and a yellow object, the title page of 'HISTOIRE NATURELLE', and the title page of 'EGYPT'. To the right of the book grid is a 'Login to Macaw' form with fields for 'User Name:' and 'Password:', and a 'Login' button.

← → ↻ macawup01.up.ac.za/login ☆ 🌐 🦋 ☰







🔍 Images 📄 Nueva pestaña 🌿 PayPal Payment 📄 dor.mo.gov/forms/MO... 📺 YouTube - Run DMC - ... » 📁 Other bookmarks



Macaw

Metadata Collection and Workflow System

Version 1.6.358 / April 30, 2012



Login to Macaw

User Name:

Password:

Based on the Paginator originally created at the Missouri Botanical Garden.

<http://macawup01.up.ac.za>

Viewing Activity

Macaw Metadata Collection and Workflow System **DEVELOPMENT VERSION** Super Admin | Logout | Help

Dashboard | In Progress | Create New | Current Item | Admin

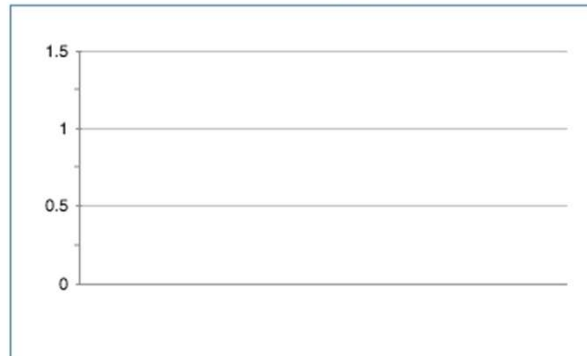
Statistics

Summary

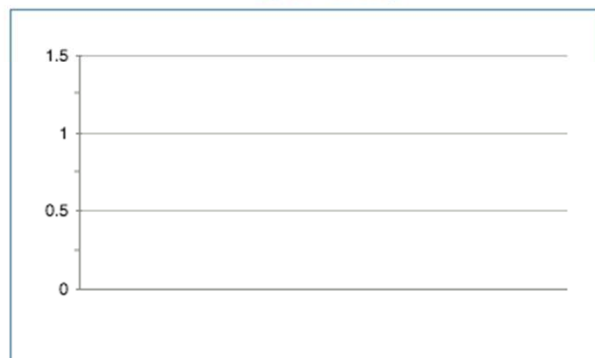
0 items ready to be scanned.
1 items in progress.
0 reviewed and ready to share.
0 being exported or verified.
0 items completed.
0 items archived.
0 items have errors.

290 pages scanned total.
0d 12h 48m average scanning time.

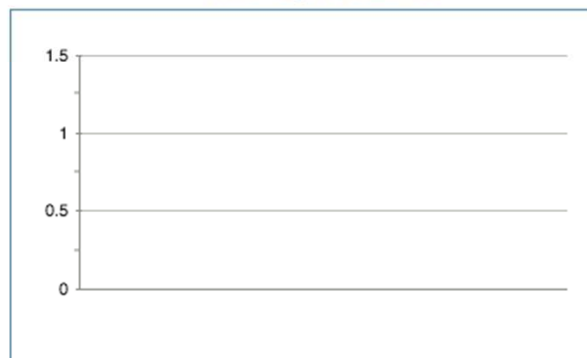
Disk Usage (GB)



Pages Per Day



Total Pages Scanned



Viewing Activity

Macaw Metadata Collection and Workflow System **DEVELOPMENT VERSION** Super Admin | Logout | Help

Dashboard In Progress Create New Current Item Admin

In Progress all				
Barcode	Title	Author	Organization	Status
39088011499621	Icones ornithopterorum	Rippon, Robert H. F. (Robert Henry Fernando)	Default	reviewing
Test-Book-Identifier	Testing title of the volume		Default	new

Loading Activity

Macaw Metadata Collection and Workflow System **DEVELOPMENT VERSION** Super Admin | Logout | Help

Dashboard In Progress Create New Current Item Admin

Add Item









Identifier:


Organization: Default

Needs QA: This item will be reviewed for Quality Assurance

Copyright:

Creative Commons:

<input type="text" value="title"/>	<input type="text"/>	 
<input type="text" value="collection"/>	<input type="text"/>	 
<input type="text" value="marc_xml"/>	<input type="text"/>	 
<input type="text" value="mods_xml"/>	<input type="text"/>	 



Uploading images via browser

Macaw Metadata Collection and Workflow System **DEVELOPMENT VERSION** Super Admin | Logout | Help

Dashboard In Progress Create New Current Item Admin

Upload Pages

Upload PDFs or image files for this item to the Macaw server.

The maximum size for each file is **25M**

Start import when upload is complete

Files to Upload		
File Name	Size	Upload progress
alphabetsoldnewf00day1.pdf	19255768	<div style="width: 100%;"></div>

Uploading images via browser

Macaw Metadata Collection and Workflow System **DEVELOPMENT VERSION** Super Admin | Logout | Help

Dashboard | In Progress | Create New | Current Item | Admin

Testing title of the volume

Instructions

- 1 Scan all of your pages.
- 2 Copy the scans to this network location:
`/var/www/joelrichard.com/macaw/docs/incoming/Test-Book-Identifier`
- 3 Start the import:

While the scans will be copied to the server, you can monitor the progress on the right.

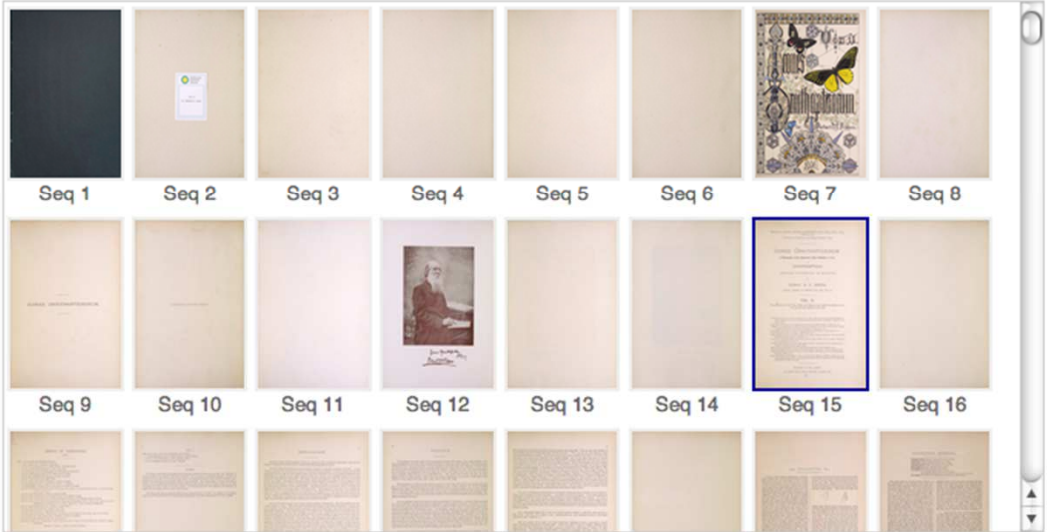
Scanned Page Import		
Filename	Size	Status
alphabetsoldnewf00dayl	19255768	New

Reviewing Metadata

Macaw Metadata Collection and Workflow System **DEVELOPMENT VERSION** Super Admin | Logout | Help



Dashboard | In Progress | Create New | Current Item | Admin

Icones ornithopterorum





Select:


Metadata for Sequence Number 15


Page Prefix / Num: impl.  

Page Type: Text Copyright

Year: 

Volume: 

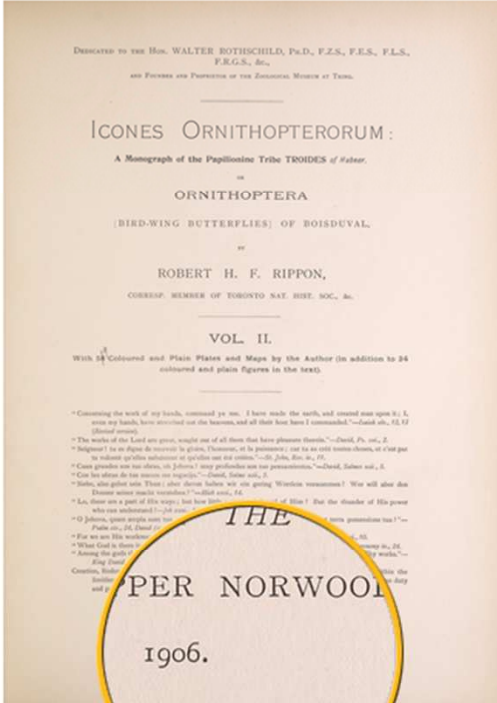
Piece: 

Page Side: 

Caption:

Flag page: Interesting, special, problems, etc.

General Notes:



THE
PER NORWOOD
1906.

Reviewing Metadata

File	Seq.	Page	Type	Year	Vol.	Piece	Side
39088011499621_0001	1		Cover	1906	II		Right (recto)
39088011499621_0002	2		Text	1906	II		Left (verso)
39088011499621_0003	3		Blank	1906	II		Right (recto)
39088011499621_0004	4		Blank	1906	II		Left (verso)
39088011499621_0005	5		Blank	1906	II		Right (recto)
39088011499621_0006	6		Blank	1906	II		Left (verso)
39088011499621_0007	7		Illustration, Title Page	1906	II		Right (recto)
39088011499621_0008	8		Blank	1906	II		Left (verso)
39088011499621_0009	9		Text	1906	II		Right (recto)

Select:

Metadata for Sequence Number 15

Page Prefix / Num: impl.

Page Type: Text Copyright Caption:

Year:

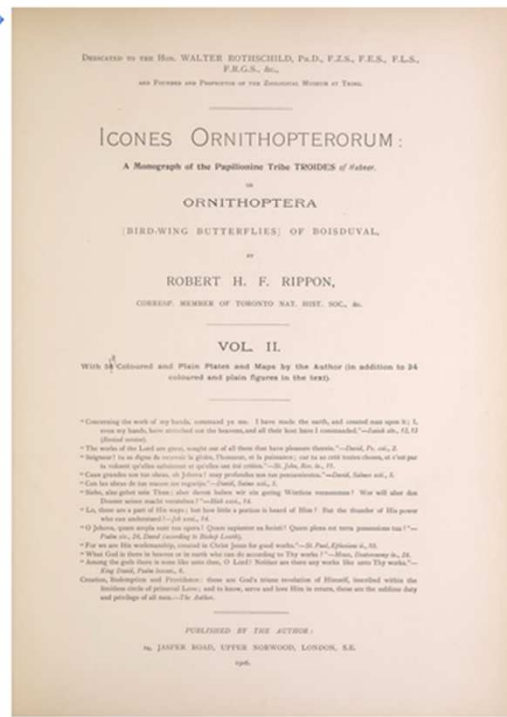
Volume:

Piece:

Page Side:

Flag page: Interesting, special, problems, etc.

General Notes:



Uploading to the Archive

- Need to get set up with an account at IA first
- Account at IA needs access to the biodiversity collection
- Uploading of completed items is done via scheduled job or the command line

Institutional Council Meeting

Thank you

William Ulate

BHL US/UK Technical Director

William.Ulate@mobot.org

Marine Biological Laboratory

Woods Hole, Massachusetts

May 6-7, 2013