



Scientific Electronic Library Online

## **BHL SciELO Network: quarterly report**

**Period: April 1<sup>st</sup>, 2012 – June 30<sup>th</sup>, 2012**

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Sao Paulo - August 2012



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# 1 About the BHL-SciELO Network

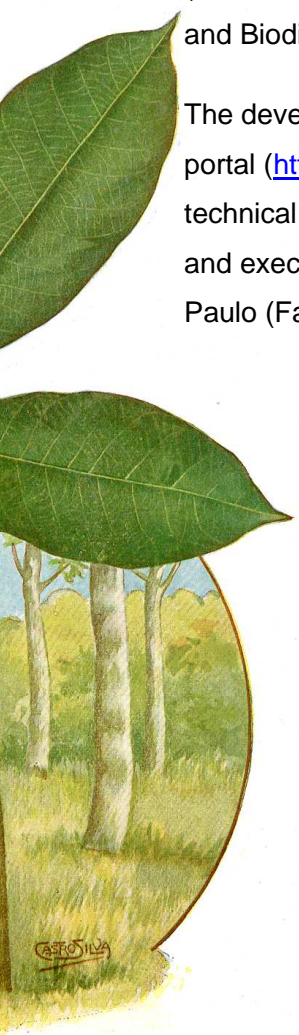
The BHL SciELO Network aims to contribute to the indexation, qualification, publishing, access and interoperability of biodiversity scientific information. It integrates BHL and SciELO networks.

The BHL-SciELO Network, launched in Brazil, has its development and operation supported by two projects. Firstly, the **SciELO Biodiversity Project: extension and strengthening of information infrastructure and scientific knowledge in biodiversity** (SciELO Biodiversity Project), which counts with the financial support of Fundação de Amparo à Pesquisa do Estado de São Paulo (FAPESP – Sao Paulo Research Foundation) – through FAPESP Virtual Library, BIOTA/FAPESP Program, and SciELO Project – and secondly, the **Project for online scanning and publishing of a collection of essential works in biodiversity from Brazilian libraries** (Essential Biodiversity Works Scanning Project), funded by PROBIO II/GEF through the Forests and Biodiversity Secretary of the Ministry of Environment (MMA).

The development and operation of products, BHL-SciELO services and events is publicized on the portal (<http://www.bhlsciELO.org>), which is supervised and advised by a Advisory Committee. The technical secretary and network operational coordination is performed by SciELO technical team, and executed with institutional support of Fundação de Apoio à Universidade Federal de São Paulo (FapUNIFESP – Federal University of Sao Paulo Foundation).

This report describes the operation of BHL SciELO Network in the period between April 1<sup>st</sup>, 2012 and June 30<sup>th</sup>, 2012, highlighting the following results:

- a) II Meeting of the BHL SciELO Network Advisory Committee, held on May 30<sup>th</sup>, 2012, in Sao Paulo (SP) - Brazil;
- b) Instituto Nacional de Pesquisas da Amazônia (INPA – National Amazon Research Institute) included in the Library Network;
- c) 166 scanned works which sum 44,923 pages of books and scientific journals, performed in the USP Zoology Museum and Butantan Institute, according to BHL methodology;
- d) 17,423 articles of 40 journals available in the Biodiversity Journals Portal;



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- e) 547 bibliography records within SciELO Repository of Articles in Biodiversity;
- f) Posts from 105 scientific blogs about biodiversity, indexed in the ResearchBlogging.org;
- g) 69 acts of Brazilian legislation about biodiversity, with links to their full content;
- h) 3,554 terms and 1,450 scope notes available from the Biodiversity Thesaurus (ThesBio).

## 1.1 Advisory Committee

The Advisory Committee is formed by representatives of the institutions involved in the SciELO Biodiversity Project and in the Essential Biodiversity Works Scanning Project, with the following permanent composition:

- Secretary of Forests and Biodiversity of the Ministry of Environment;
- Zoology Museum of the University of Sao Paulo;
- BIOTA/FAPESP Program;
- National Library Foundation;
- Brazilian Society of Zoology;
- Science editors of the SciELO Collection of Biodiversity Journals;
- Librarians Work Group;
- Developers Work Group;
- FAPESP SciELO Program, as Committee coordinator.

The II Meeting of Advisory Committee was held on May 31<sup>st</sup>, 2012, in Sao Paulo (SP) – Brazil, and resulted establishing two new lines of action for the BHL-SciELO Network, which expand the original scope of the project:

- *First line of action*: contribute to the development of the Taxonomic Catalogue of Brazilian Fauna Species, to which a specific project will be developed in the near future. The Taxonomic Catalogue of Brazilian Fauna Species will be



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integrated, along with the List of Brazilian Flora Species, in the Encyclopedia of Life do Brasil (EOL Brasil).

- *Second line of action:* contribute to the professionalization, internacionalization and sustainability of Brazilian biodiversity journals, through a joint action, to share common services of editing and publishing supported by SciELO.

## 1.2 Library Network

The BHL-SciELO library network includes the following 13 national institutions with the main collections in biodiversity:

- Oswaldo Cruz Foundation;
- Zoobotanic Foundation;
- National Amazon Research Institute (*request for inclusion granted in the II Meeting*);
- Butantan Institute;
- Botanic Institute of the Sao Paulo State;
- Rio de Janeiro Botanical Garden;
- Ministry of Environment;
- National Museum;
- Emilio Goeldi Museum;
- State University of Campinas;
- Federal University of Parana;
- Federal University of Rio Grande;
- University of Sao Paulo.

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Libraries have the main function of cooperating with the development of information sources, particularly by scanning essential biodiversity works of their respective collections.



## 2 BHL-SciELO Network and information sources

The BHL-SciELO Network Portal (<http://www.bhlsciELO.org>) was developed to integrate biodiversity information sources, through a multilingual interface, developed as result of the implementation of the SciELO Biodiversity Project and the Essential Biodiversity Works Scanning Project.

Launched on December 2010, the Portal (Picture 1) provides access and integrated research to over 158 thousand open access scientific and technical records on biodiversity in the following information sources:

- *BHL Brazil*: scanned works within gBHL, including books about Brazilian fauna and flora, and national scientific journals;
- *BHL Global*: works – journals and books – which integrate the biodiversity global network of libraries (gBHL);

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- *Portal of Biodiversity Journals*: open access Latin American scientific journals specialized in biodiversity;
- *Legislation*: updated collection of national laws and international treaties, with links to their full content;
- *BIOTA/FAPESP Repository*: bibliographic records of articles produced within BIOTA/FAPESP Program;
- *ThesBio: biodiversity thesaurus*: multilingual hierarchic tool with biodiversity terms in Portuguese and English languages.

Besides the indexation and access to scientific and technical literature, the portal offers: a) a selected catalog of national and international biodiversity blogs; b) an interactive tool to record events; c) a post aggregating tool to collect daily new posts from the 105 biodiversity catalogued blogs; d) a Collaborative Space (Eco Biodiversidade) – a virtual environment for information sharing to the Library Network.



**BHL SciELO Rede BHL SciELO**  
 Coleção de fontes de informação em biodiversidade

**Sobre a Rede BHL SciELO**  
 A Rede BHL SciELO tem como objetivo contribuir para a indexação, qualificação, publicação, acesso e interoperabilidade de informação científica em Biodiversidade. Integra as Redes BHL e SciELO. [Veja mais](#)

**Comitê Consultivo**

**Bibliotecas**

**Rede Internacional**

**Links**

**Pesquisas na BHL SciELO**  
 [Pesquisar](#)

**Áreas temáticas**

<ul style="list-style-type: none"> <li>Ciências ambientais</li> <li>Fenômenos e processos</li> </ul>	<ul style="list-style-type: none"> <li>Saúde e ambiente</li> <li>Biossegurança e biotecnologia</li> </ul>
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**Literatura Científica e Técnica**

BHL Brasil	Legislação em Biodiversidade
BHL Global	Repositório BIOTA/FAPESP
Periódicos em Biodiversidade	Tesouro em Biodiversidade

**Divulgação Científica, Comunicação e Comunidades**

- Blog
- Eventos
- Espaço Colaborativo de Biodiversidade

**Sobre**

- Rede BHL SciELO
- Modelo de BV8

**Blogosfera**

- Jun 29, 2012 **Foto da semana: Encontro**
- Jun 29, 2012 **Blog do NUROF-UFC completa 2 anos!**
- Jun 27, 2012 **Birdwatching: o prazer de observar aves**

Powered by Feed Informer

**Twitter**

SciELO **redesciolo**

**redesciolo** Teresa Cristina Rego e Jaime L. Benchimol são as novas representantes dos editores de Ciências Humanas no Comitê Consultivo **#SciELOBrasil** 3 days ago · reply · retweet · favorite

**redesciolo** Novo título na Coleção SciELO Brasil "Intercom: Revista Brasileira de Ciências da Comunicação" **scielo.br/interc** 3 days ago · reply · retweet · favorite

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Picture 1. BHL-SciELO Network Portal home page



## 2.1 BHL Brazil, BHL Global and the scanning of Brazilian works

The collections BHL Brazil and BHL Global will be available on the BHL-SciELO Network Portal and include, respectively, 376 works on biodiversity related to Brazil and scanned by the institutions that form the gBHL, and 105,186 works on biodiversity of other regions of the planet, scanned by gBHL.



Besides the works already scanned by gBHL, until the end of 2013 the Collection BHL Brazil will include around 2,000 scanned works from the institutions that form the Brazilian Network of Libraries for Biodiversity, selected by the Advisory Committee by previously defined criteria.

With resources provenient from PROBIO II, the scanning equipment necessary to the technological infrastructure were acquired, which will allow the local scanning of works. 5 Scanning Centres will be built to operate simultaneously in 3 to 5 institutions of the Brazilian Network of Libraries for Biodiversity.

From January 2012, the scanning operation pilot started in two Brazilian institutions – the USP Zoology Museum (MZUSP) and the Butantan Institute (IB) – resulting in the scanning of **166 works**, summing **44,923 pages**, between books and scientific journals:

<b><i>Journals</i></b>	<b><i>Books</i></b>	<b><i>Total</i></b>
11 journal titles	49 books	166 works
117 fascicles	12,654 pages	44,923 pages
32,269 pages		

As part of the scanning process, an open source version of the Macaw software was installed in the BHL-SciELO Network server, offered by gBHL, to attribute and process metadata of scanned

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pages and dispatch of these files to the Internet Archives. Since the scanning activities will be widespread through Brazilian libraries, the tool installation was performed locally in the desktop that operates the scanner. The testing phase with the tool, the pilot processing operation and dispatch of metadata to the Internet Archives should end in the next three years.

## 2.2 Biodiversity Journals Portal

The Biodiversity Journals Portal (<http://portal.periodicos.bhlsciELO.org>) gathers the area's main Latin American journals, having been developed and aligned with SciELO Program's goal of increasing the access and visibility of research in biodiversity from Brazil and other countries of the SciELO Network through the publishing of open access scientific journals, thus contributing to increase their use and impact (Picture 2).

On June 2012 the portal counts with 40 scientific journals (see Exhibit I), published in 5 countries of SciELO Network, allowing access to 1,302 fascicles and 17,423 articles. The creation and development of the biodiversity journal collection is based in selection criteria defined by the Advisory Committee, according to the document available at:

<http://portal.periodicos.bhlsciELO.org/php/level.php?lang=pt&component=78&item=3>.

The screenshot shows the Biodiversity Journals Portal home page. At the top, there is a header with the BHL SciELO logo and the title "Portal de Periódicos em Biodiversidade". Below the header, the page is divided into several sections. On the left, there is a "Rede SciELO" section with a list of countries: Argentina, Brasil, Chile, Colômbia, and México. Below this is a "Repositório de Artigos" section with a link to "Depósito de artigos". Further down is a "Sobre" section with a link to "Sobre o Portal". At the bottom left, there is a "Links" section with links to BHL, BVS, Rede BHL, SciELO, and SoELO. In the center, there is a "Pesquisa artigos" section with a search bar and filters. Below this is a "Lista periódicos" section with two lists: "Por ordem alfabética - todos" (A B C D E F G H I K L M N P R Z) and "Por publicador - todos" (A C F I M P S U). To the right of the search bar is a "Biodiversidade em números" section with the following statistics: 40 Periódicos, 1.302 Fascículos, 17.423 Artigos, and 909.064 Citações. At the bottom right, there is a "Twitter" widget for "redesciELO" with a tweet from Teresa Cristina Rego e Jaime L. Benchimol. The footer contains contact information for SciELO and logos of partner organizations like CAIXA, BRASIL, BHL, and FAPESP.

Picture 2. Biodiversity Journals Portal home page

## 2.3 SciELO Repository of Biodiversity Articles - BIOTA/FAPESP pilot

The SciELO Repository of Biodiversity Articles aims to facilitate the access and use of national scientific production published in journals which are not part of SciELO Network and are not present in international reference indexes through the development, management and operation of an open access repository of scientific articles related to biodiversity.

Currently, the pilot version of the repository is available, which is constituted by the bibliographic metadata of 547 scientific articles of BIOTA/FAPESP Program produced from 1999 to 2010 and published in 205 different national and international scientific journals of both open and restricted access.

Once consolidated on the BIOTA/FAPESP Repository, the SciELO Repository of Biodiversity Articles operation will be expanded nationwide in order to create a national repository of biodiversity.



## 2.4 ThesBio: thesaurus of biodiversity

The thesaurus created for the SciELO Biodiversity Project and identified as *ThesBio* (<http://thesaurus.bhlsciELO.org>) is a multilingual thesaurus in the area of biodiversity, designed by USP Zoology Museum with the technical support of SciELO and resources originated from the SciELO Biodiversity Project.

Within BHL-SciELO Network, the ThesBio contributes with the structuration of biodiversity concepts and the creation of a cyber information infrastructure for the biodiversity area.

The ThesBio is a dynamic polihierarchic thesaurus, which assembles 3,554 biodiversity terms and 1,450 definition or scope notes, in English and Portuguese, allowing the use of a common

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technology for the indexation and research in these two languages. Being dynamic, it is constantly growing through alterations, replacements and creation of new terms or thematic areas (Picture 3).



Picture 3. ThesBio home page

## 2.5 EOL-Brazil: integration of the Fauna Catalogue with the List of Flora Species in a single biodiversity database

One of the main functionalities of BHL-SciELO Network regarding the scientific information cyber infrastructure is its interoperability through pre-defined or dynamic links between the full content of scientific literature and other information sources, especially the species lists and catalogues. These links are mainly processed through ThesBio concepts or species names identified in the texts. In case of species names, the BHL methodology, developed with open solutions, operates with links with the Encyclopedia of Life, coordinated by the Smithsonian Institution, which also leads the BHL.

The BHL-SciELO Network will adopt the same methodology through EOL Brazil development, which will operate as a central indexer of species names related to Brazil and described in the different national and international lists and catalogues. The species records within EOL will have links to the complete record of the original source, as well as to the scientific literature within BHL-SciELO.

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The coordination of the List of Brazilian Flora Species has approved the participation of EOL Brazil by request of the Advisory Committee of BHL-SciELO Network. As a result, by the end of 2012 all species present in the List of Brazilian Flora Species should be integrated in the EOL and therefore qualified for linkage with the scientific literature.



The coordination of the Catalogue of Brazilian Fauna Species, which is presently under development, has also approved its integration with EOL Brazil, and by the end of 2012 some groups of species should also be operating in the EOL.

The debate about the development of the Catalogue of Brazilian Fauna Species and its integration in EOL Brazil took place during the I Workshop "Taxonomic Catalogue of Brazilian Fauna Species" (Picture 4), organized by the SciELO Team with the support of USP Zoology Museum on June 13<sup>th</sup>, in Sao Paulo.

To learn about the Workshop's cronogram and obtain more information, please access the URL:

<http://eventos.scielo.org/iworkshopctefb/>.



Picture 4. I Workshop Taxonomic Catalogue of Brazilian Fauna Species

### 3 Technological architecture and new applications

For the operation of scanning activities of essential biodiversity works, an infrastructure composed by Storage, Library Tape, LTO tapes, storage units (NAS), External HDs and Desktops was adopted.

The new technological architecture will have a storage infrastructure composed by a local infrastructure for the Scanning Centers, and a central infrastructure to assure the perseverance and publishing of scanned data, uninterruptedly for

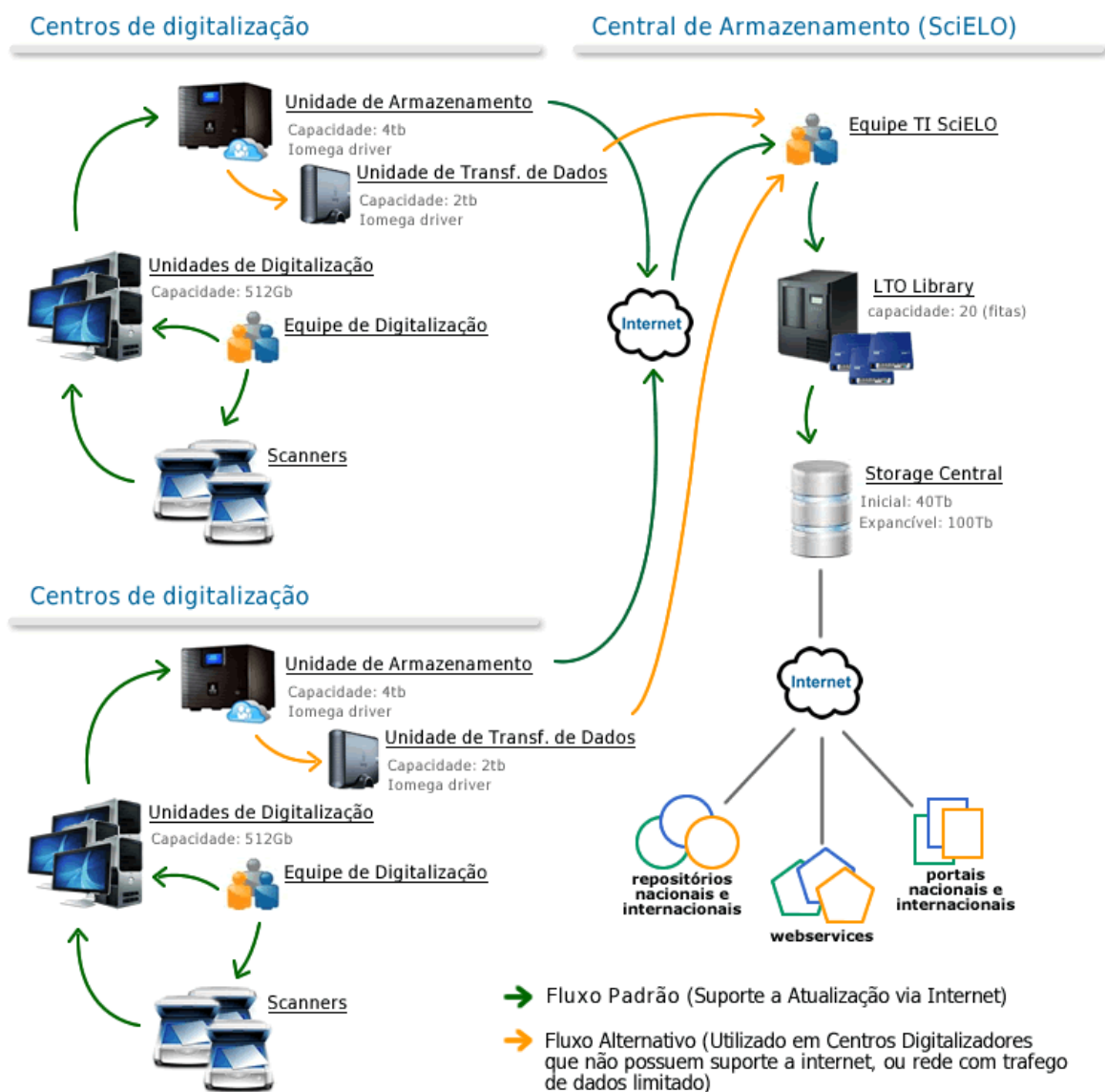


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a period of 2 years.

This architecture aims to provide autonomy to the Scanning Centers during the scanning process, and also to ensure safe storage of scanned content while it is in the evaluation and production phases within Scanning Centers, as well as to secure all resources necessary to the safety and availability of scanned works in a Central Storage System.

Picture 5 depicts the technology architecture of BHL-SciELO Network:

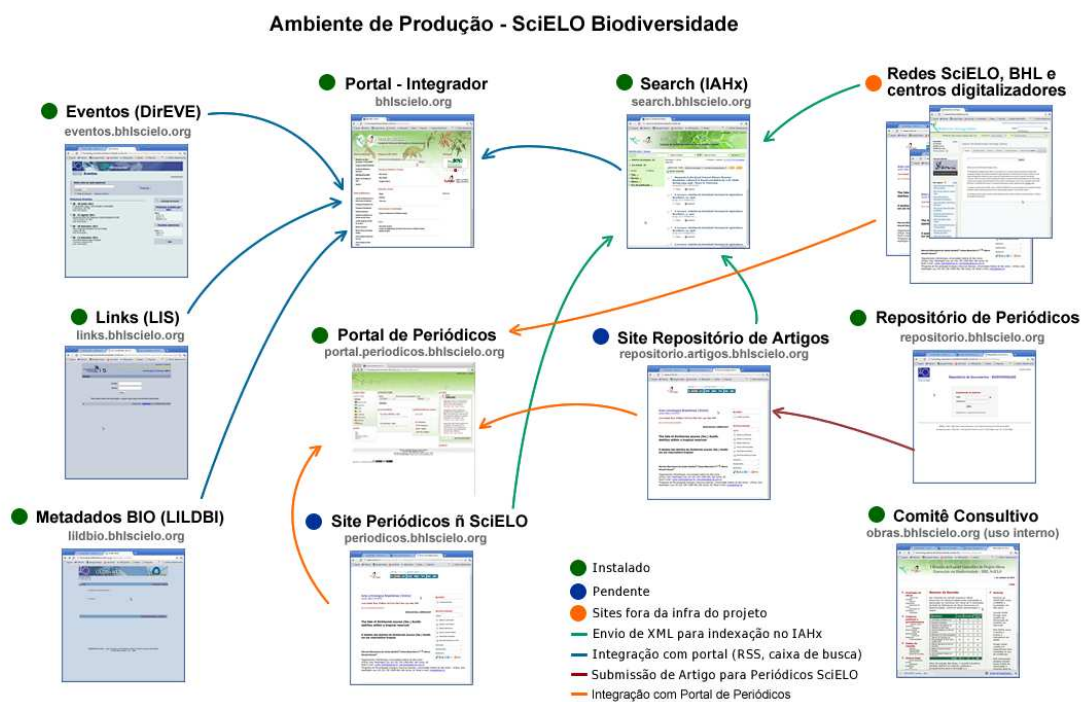


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Picture 5. Technology Architecture of BHL-SciELO Network

Picture 6 presents all applications that compose the BHL-SciELO Network, as follows: a) event recording tool (DirEve); b) link recording tool (LIS); c) bibliographic recording tool of scanned works (LILDBI); d) integrated content research tool (iAHx); e) Repository of Biodiversity Articles; f) storage website for articles submitted to the repository; g) website to make available journals about biodiversity that are not available in the SciELO Network; h) portal for SciELO biodiversity journals; i) thesaurus management tool (TemaTres); and j) website for committee meetings.

Between April and June 2012, the migration of BHL-SciELO Network Portal content to the WordPress tool was completed, as replacement to the BVS Website. In this same period the Macaw software was installed.



Picture 6. BHL-SciELO Network Applications



## 4 Publicization of BHL-SciELO Network

The divulgation and marketing of SciELO Biodiversity Project include the following lines of action:

- Participation in congresses, courses and other national and international events, where its development status, methodology and technologies will be presented;
- Publishing of posts related to SciELO Biodiversity Project and BHL-SciELO Network on SciELO Twitter, which on May 2012 counts with 13,400 followers;
- Preparation of promotional material;
- Publicization of SciELO Biodiversity Project and BHL-SciELO Network in the website of the institutions that form the Brazilian Network of Libraries for Biodiversity.

Follow below the list of designated representatives of SciELO Biodiversity Project for the technical visit, meetings and events in the period between June 1<sup>st</sup>, 2011 and May 30<sup>th</sup>, 2012:

Technical visit, meetings, events
<b>June 7-8<sup>th</sup>, 2012 – Berlin, Germany</b> Third Global BHL Planning and Technical Meeting
<b>July 8<sup>th</sup>, 2011 – Rio de Janeiro (RJ), Brazil</b> Meeting with Internet Archive (IA)
<b>April 15-20<sup>th</sup>, 2012 – Washington (DC), USA</b> Technical visit to the Smithsonian Institution
<b>November 13<sup>th</sup>, 2011- Chicago (IL), USA</b> Second Global BHL Technical Meeting
<b>November 10<sup>th</sup>, 2011 – Brasilia (DF), Brazil</b> Probio II Meeting
<b>November 13-15<sup>th</sup>, 2011- Chicago (IL), USA</b> Second Global BHL Technical Meeting Conference about biodiversity literature "Life & Literature"

# Annex

## Annex 1

### Biodiversity Journals Portal – list of titles

#	Title	ISSN	URL	Collection
1	Acta Amazonica	0044-5967	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0044-5967&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0044-5967&amp;lng=pt&amp;nrm=iso</a>	Brazil
2	Acta Botanica Brasilica	0102-3306	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0102-3306&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0102-3306&amp;lng=pt&amp;nrm=iso</a>	Brazil
3	Acta Botánica Mexicana	0187-7151	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0187-7151&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0187-7151&amp;lng=es&amp;nrm=iso</a>	Mexico
4	Acta Limnológica Brasiliensia (Online)	2179-975X	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=2179-975X&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=2179-975X&amp;lng=pt&amp;nrm=iso</a>	Brazil
5	Acta Zoológica Mexicana	0065-1737	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0065-1737&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0065-1737&amp;lng=es&amp;nrm=iso</a>	Mexico
6	Anais da Sociedade Entomológica do Brasil	0301-8059	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0301-8059&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0301-8059&amp;lng=pt&amp;nrm=iso</a>	Brazil
7	Biota Neotropica	1676-0603	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1676-0603&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1676-0603&amp;lng=pt&amp;nrm=iso</a>	Brazil
8	Boletín Científico. Centro de Museos. Museo de Historia Natural	0123-3068	<a href="http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0123-3068&amp;lng=en&amp;nrm=iso">http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0123-3068&amp;lng=en&amp;nrm=iso</a>	Colombia
9	Boletín de Investigaciones Marinas y Costeras - INVEMAR	0122-9761	<a href="http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0122-9761&amp;lng=en&amp;nrm=iso">http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0122-9761&amp;lng=en&amp;nrm=iso</a>	Colombia
10	Boletín de la Sociedad Argentina de Botánica	1851-2372	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1851-2372&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1851-2372&amp;lng=es&amp;nrm=iso</a>	Argentina
11	Boletín de la Sociedad Botánica de México	0366-2128	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0366-2128&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0366-2128&amp;lng=es&amp;nrm=iso</a>	Mexico
12	Brazilian Journal of Botany	1806-9959	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1806-9959&amp;lng=en&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1806-9959&amp;lng=en&amp;nrm=iso</a>	Brazil
13	Brazilian Journal of Oceanography	1679-8759	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1679-8759&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1679-8759&amp;lng=pt&amp;nrm=iso</a>	Brazil
14	Caldasia	0366-5232	<a href="http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0366-5232&amp;lng=en&amp;nrm=iso">http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0366-5232&amp;lng=en&amp;nrm=iso</a>	Colombia
15	Darwiniana: revista del Instituto de Botánica Darwinion	0011-6793	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0011-6793&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0011-6793&amp;lng=es&amp;nrm=iso</a>	Argentina

#	Title	ISSN	URL	Collection
16	Ecología Austral	1667-782X	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1667-782X&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1667-782X&amp;lng=es&amp;nrm=iso</a>	Argentina
17	El Hornero: revista de ornitología neotropical	0073-3407	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0073-3407&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0073-3407&amp;lng=es&amp;nrm=iso</a>	Argentina
18	Gayana (Concepción): international journal of biodiversity, oceanology and conservation	0717-6538	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0717-6538&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0717-6538&amp;lng=pt&amp;nrm=iso</a>	Chile
19	Gayana. Botánica	0717-6643	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0717-6643&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0717-6643&amp;lng=pt&amp;nrm=iso</a>	Chile
20	Hoehnea	2236-8906	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=2236-8906&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=2236-8906&amp;lng=pt&amp;nrm=iso</a>	Brazil
21	Iheringia. Série Zoologia	0073-4721	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0073-4721&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0073-4721&amp;lng=pt&amp;nrm=iso</a>	Brazil
22	Kurtziana	1852-5962	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1852-5962&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1852-5962&amp;lng=es&amp;nrm=iso</a>	Argentina
23	Latin American Journal of Aquatic Research	0718-560X	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0718-560X&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0718-560X&amp;lng=pt&amp;nrm=iso</a>	Chile
24	Mastozoología Neotropical	0327-9383	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0327-9383&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0327-9383&amp;lng=es&amp;nrm=iso</a>	Argentina
25	Neotropical Entomology	1519-566X	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1519-566X&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1519-566X&amp;lng=pt&amp;nrm=iso</a>	Brazil
26	Neotropical Ichthyology	1679-6225	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1679-6225&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1679-6225&amp;lng=pt&amp;nrm=iso</a>	Brazil
27	Papéis Avulsos de Zoologia (São Paulo)	0031-1049	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0031-1049&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0031-1049&amp;lng=pt&amp;nrm=iso</a>	Brazil
28	Phyton (Buenos Aires): revista internacional de botánica experimental	1851-5657	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1851-5657&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1851-5657&amp;lng=es&amp;nrm=iso</a>	Argentina
29	Polibotánica	1405-2768	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=1405-2768&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=1405-2768&amp;lng=es&amp;nrm=iso</a>	Mexico
30	Revista Brasileira de Botânica	0100-8404	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0100-8404&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0100-8404&amp;lng=pt&amp;nrm=iso</a>	Brazil
31	Revista Brasileira de Entomologia	0085-5626	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0085-5626&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0085-5626&amp;lng=pt&amp;nrm=iso</a>	Brazil
32	Revista Brasileira de Zoologia	0101-8175	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0101-8175&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=0101-8175&amp;lng=pt&amp;nrm=iso</a>	Brazil
33	Revista chilena de historia natural	0716-078X	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0716-078X&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0716-078X&amp;lng=pt&amp;nrm=iso</a>	Chile
34	Revista Colombiana de Entomología	0120-0488	<a href="http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0120-0488&amp;lng=en&amp;nrm=iso">http://www.scielo.org.co/scielo.php?script=sci_serial&amp;pid=0120-0488&amp;lng=en&amp;nrm=iso</a>	Colômbia
35	Revista de Biología Marina y	0718-1957	<a href="http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0718-1957&amp;lng=pt&amp;nrm=iso">http://www.scielo.cl/scielo.php?script=sci_serial&amp;pid=0718-1957&amp;lng=pt&amp;nrm=iso</a>	Chile

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#	Title	ISSN	URL	Collection
	Oceanografía		pid=0718-1957&lng=pt&nrm=iso	
36	Revista de la Sociedad Entomológica Argentina	0373-5680	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0373-5680&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=0373-5680&amp;lng=es&amp;nrm=iso</a>	Argentina
37	Revista del Museo Argentino de Ciencias Naturales	1853-0400	<a href="http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1853-0400&amp;lng=es&amp;nrm=iso">http://www.scielo.org.ar/scielo.php?script=sci_serial&amp;pid=1853-0400&amp;lng=es&amp;nrm=iso</a>	Argentina
38	Revista Internacional de Contaminación Ambiental	0188-4999	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0188-4999&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=0188-4999&amp;lng=es&amp;nrm=iso</a>	México
39	Revista Mexicana de Biodiversidad	1870-3453	<a href="http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=1870-3453&amp;lng=es&amp;nrm=iso">http://www.scielo.org.mx/scielo.php?script=sci_serial&amp;pid=1870-3453&amp;lng=es&amp;nrm=iso</a>	Mexico
40	Zoologia (Curitiba, Impresso)	1984-4670	<a href="http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1984-4670&amp;lng=pt&amp;nrm=iso">http://www.scielo.br/scielo.php?script=sci_serial&amp;pid=1984-4670&amp;lng=pt&amp;nrm=iso</a>	Brazil

## Annex 2

### Books scanned in the period between April 1<sup>st</sup> to June 30<sup>th</sup>, 2012

#	Institution	Author	Title	Pages
1	Butantan	Albin, Eleazar	A natural history of spiders and others curious insects	206
2	Butantan	Amaral, Afrânio do	Animais venenosos do Brasil	102
3	Butantan	Amaral, Afrânio do	Bulletin of the Antiven Institute of America	130
4	Butantan	Amaral, Afrânio do	A general consideration of snake poisoning and observations on neotropical pit-vipers	110
5	Butantan	Berland, Lucien	Encyclopédie entomologique. Série A, v. 16 - Les arachnides : scorpions, araignées, etc.	396
6	Butantan	Blackwall, John	A history of the spiders of Great Britain and Ireland	522
7	Butantan	Brazil, Vital	A defesa contra o ofidismo	188
8	Butantan	Brazil, Vital	La déphense contre l'ophidisme	332
9	Butantan	Comstock, John Henry	The spider book : a manual for the study pf the spiders and their near relatives, the scorpions, pseudoscorpions, whip-scorpions, harvestmen, and other members of the class arachnida, found in America Noth of Mexico, with analytical keys for their classification and popular accounts oh their habits	746
10	Butantan	Dahl, Friedrich	Die tierwelt Deutschlands und der angrenzenden meeresteile nach ihren merkmalen und ihrer lebensweise. v. 1, tomo 1 - spinnentiere oder arachnoidea : springspinnen (salticidae)	69
11	Butantan	Dahl, Friedrich	Die tierwelt Deutschlands und der angrenzenden meeresteile nach ihren merkmalen und ihrer lebensweise. V. 8, tomo 3 - spinnentiere oder arachnoidea : opiliones, pseudoscorpionida, pantopoda, pentastomida	102
12	Butantan	Dahl, Friedrich; Dahl, Maria	Die tierwelt Deutschlands und der angrenzenden meeresteile nach ihren merkmalen und ihrer lebensweise. v. 5, tomo II - spinnentiere oder arachnoidea : lycosidae s. lat. (wolfspinnen im weiteren sinne)	96
13	Butantan	Decker, João Siegfried	Aspectos biológicos da flora brasileira	678
14	Butantan	Ditmars, Raymond L.	Snakes of the world	314
15	Butantan	Fitzsimons, F. W.	Snakes and the treatment of snake bite	80
16	Butantan	Fitzsimons, F. W.	Snakes	326
17	Butantan	Fonseca, Flávio da	Animais peçonhentos	416
18	Butantan	Fremery, Paul de	Over neotenie bij triton taeniatus laur	196

#	Institution	Author	Title	Pages
19	Butantan	Hoehne, F. C.	As plantas ornamentaes da flora brasilica e o seu papel como factores da salubridade publica, da esthetica rubana e artes decorativas nacionaes	196
20	Butantan	Hoehne, F. C.	A flora do Brazil : recenseamento de 1920	204
21	Butantan	Hoehne, F. C.	Botanica : parte XII Contribuição ao conhecimento das leguminosas da Rondonia	68
22	Butantan	Hoehne, F. C.	Botanica : parte IX bromeliaceas e orchidaceas	86
23	Butantan	Hoehne, F. C.	Botanica : parte VIII leguminosas	174
24	Butantan	Hoehne, F. C.	Album da secção de botanica do Museu Paulista e suas dependencias, etc.	235
25	Butantan	Jan, G.	Elenco sistematico degli ofidi : descritti e disegnati	150
26	Butantan	Kraus, Rodolpho	Noções gerais sobre cobras	120
27	Butantan	Kraus, Rodolpho; Werner, Franz	Giftschlangen und die serumbehandlung der schlangenbisse	236
28	Butantan	Leitão, Cândido Firmino de Mello	Estudo monográfico dos escorpiões da República Argentina	118
29	Butantan	Lynch Arribálzaga, Félix	Dipterología argentina	92
30	Butantan	Martyn, Thomas (org.); Albin, Eleazar; Charles Clerck	Aranei, or a natural history of spiders (including the principal parts of the well known work "English spiders" by Eleazar Albin it's also the whole of the celebrated publication "Swedish spiders" by Charles Clerk	186
31	Butantan	Menge, A.	Preussische spinnen	944
32	Butantan	Neiva, Arthur	Revisão do genero triatoma lap.	90
33	Butantan	Ortenburguer, Arthur Irving	The whip snakes and racers : genera masticophis and coluber	371
34	Butantan	Oudemans, A. C.	The great sea-serpent : na historical and critical treatise	616
35	Butantan	Picado T., Clodomiro	Nuestras serpientes venenosas : soroterapia anti-ofídica	72
36	Butantan	Picado T., Clodomiro	Serpientes venenosas de Costa Rica : sus venenos soroterapia anti-ofídica	236
37	Butantan	Rinn, Paul	Le venin des vipères françaises : l'evenimentation vipérique et la sérothérapie antivenimeuse	218
38	Butantan	Schmidt, Karl P.; Davis, Dwight D.	Field book os snakes of the United States and Canada	392
39	Butantan	Scortecci, Giuseppe	Gli ofidi velenosi dell'Africa italiana	318
40	Butantan	Serié, Pedro	Las serpientes de la Argentina	26
41	Butantan	Smith, Malcolm	Monograph or the sea-snakes (hydrophidae)	162
42	Butantan	Steindachner, Franz	Bericht über die herpetologischen aufsammlungen (Expedition S. M. "Pola" in das rothe Meer Nördliche und südliche hälfte - 1895/96 und 1897/98). v. 17	30
43	Butantan	Stejneger, Leonhard	Herpetology of Japan and adjacent territory	676

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#	Institution	Author	Title	Pages
44	Butantan	Takaoka, S.	Noções para todos sobre cobreas venenosas no Brasil	126
45	Butantan	Tambs-Lyche, Hans	Die norwegischen spinnen der gattung pardosa koch	76
46	Butantan	Verdun, P.	Précis de zoologie	556
47	Butantan	Werner, Franz	Scorpiones, Pedipalpi	504
48	Butantan	Werner, Franz	Untersuchungen ueber die zeichnung der schlangen	150
49	Butantan	Winge, Herluf	Conspectus faunæ Groenlandicæ: mammalia - Grønlands pattedyr	217

**Total de páginas:** 12.654  
**Total de livros:** 49

## Annex 3

### Journals scanned in the period between April 1st to June 30th, 2012

#	Institution	Title	# Fascicles	# Pages
1	Museu de Zoologia	Revista do Museu Paulista	10	7161
2	Museu de Zoologia	Revista de Ciencias	2	384
3	SciELO	Papéis Avulsos do Departamento de Zoologia	7	2262
4	Butantan	Memórias do Instituto Butantan	72	16369
5	Butantan	Coletâneas do Instituto Butantan	16	5030
6	Butantan	Monografias do Instituto Butantan	2	274
7	Butantan	Bulletin of the Antiven Institute of America	1	122
8	Butantan	Bulletin of the Institute of Jamaica, Science Series	1	63
9	Butantan	Biological survey - Bulletin	1	54
10	Butantan	North American Fauna	3	171
11	Butantan	Occasional Papers of the California Academy of Sciences	2	379

**Total titles: 11**

**Total fascicles: 117**

**Total pages: 32.269**