









## Institutional Council Meeting Marine Biological Laboratory May 6-7, 2013

## Global BHL Update



William Ulate
Global BHL Coordinator











#### What is BHL?

The Biodiversity Heritage Library is

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."



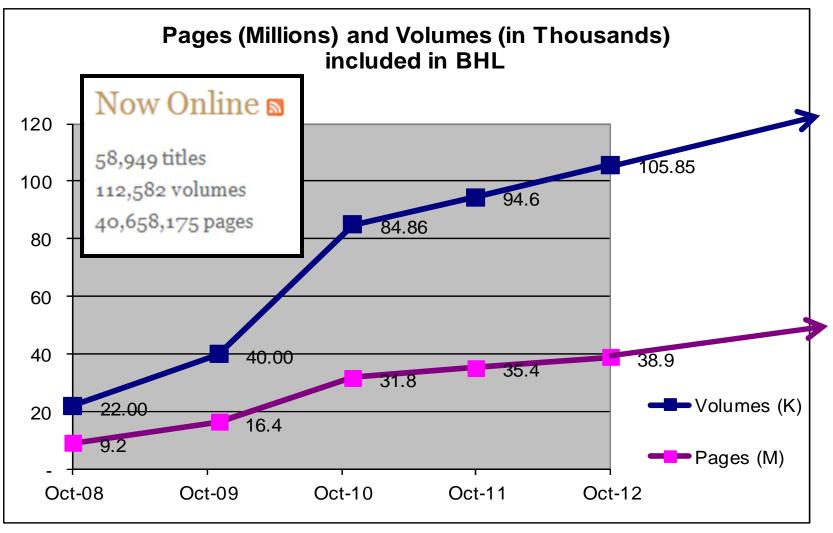








## More Online Content







Biodiversity Heritage Library







#### **GLOBAL BHL is...**

a cooperative network of autonomous members operating programs and projects to make biodiversity literature available Bthrough open access principles.















15 consortium members in the US/UK A truly global initiative...





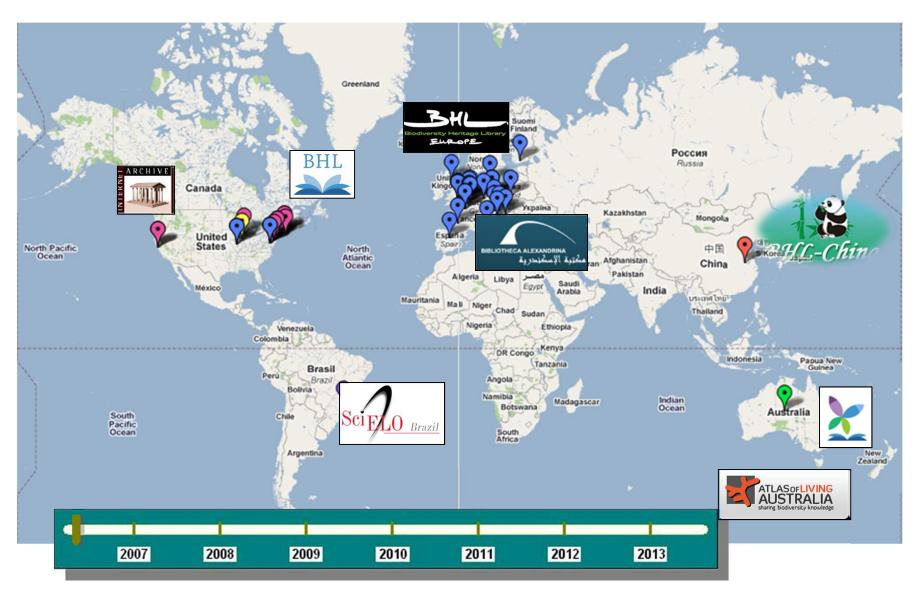








## A truly global initiative...













#### New Partners and new Content













## Goals of gBHL

- Digitize and aggregate as much biodiversity literature as funding and copyright law allows through the member programs and projects.
- Maintain repositories for the indexing, storage, preservation and serving of this digital content.
- Develop services to make this digital content widely and easily available.











## **Principles**

- **Open access**. The digital content served by gBHL members is available without cost and can be reused by other projects and users with appropriate attribution.
- **Collaboration**. Each gBHL member will actively coordinate its activities with other BHL partners to achieve agreed objectives.
- **Decentralization**. Each gBHL member is self-governing and funded.
- **Interoperability**. Each gBHL member will deploy technologies enabling sharing of digital content and services with other gBHL members.
- Transparency. The processes of the gBHL will be transparent and clear to all members and the public.
- Legality. The gBHL members will operate within their legal frameworks.











## Membership

Composed of organizations, programs and projects that are contributing content or services to gBHL.

Each member is responsible for its own plans, governance and funding.











#### Coordinating Committee (gBHL-CC)

- Oversees the functioning of the gBHL.
- Composed of one representative from each member;
- Each representative has one vote.
- Has responsibilities for determining membership, strategic planning and recommending policy for collaborative work.











#### Coordinating Committee (gBHL-CC)

- May choose to invite relevant organizations to its meetings as well as to establish temporary working groups to address specific themes and provide the gBHL-CC with in depth analysis and recommendations.
- Will have by-laws for its operations.
- May choose to establish a Secretariat.







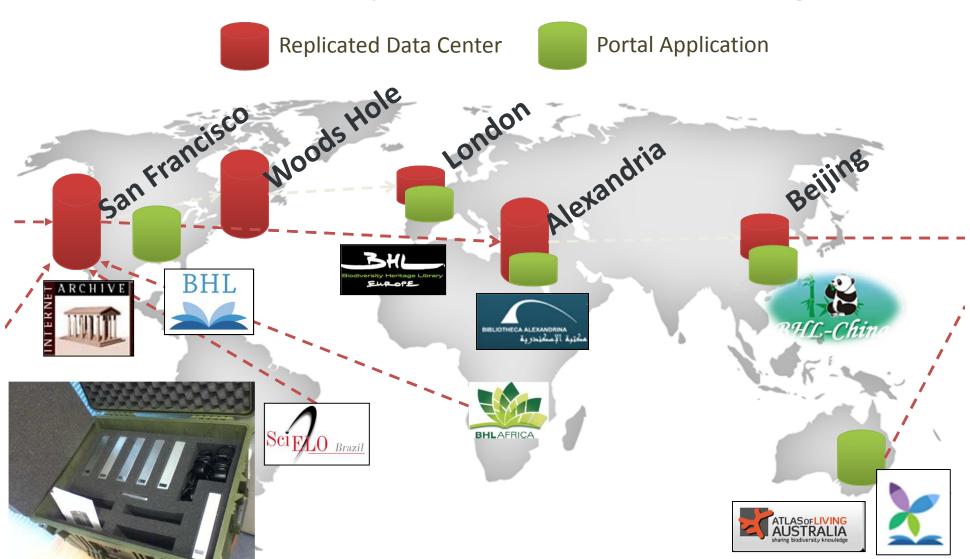




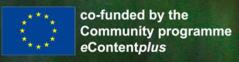




## Global Replication & Serving



# Biodiversity Heritage Library for Europe current status and perspecives







National MuseumPraha, Heritage Library



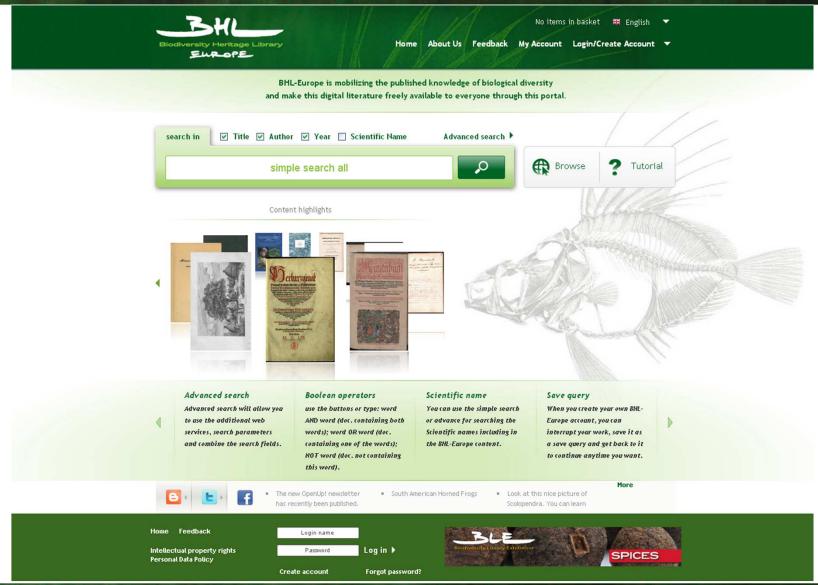


- ➤ BHL-Europe portal <u>www.bhl-europe.eu</u> (project website remain on <u>www.bhle.eu</u>)
- ➤ Launched in March 2013
- Over 6 000 books
- Over 3 million pages

- Servers NHM London
- > Sustainability London, Berlin, Prague, Vienna

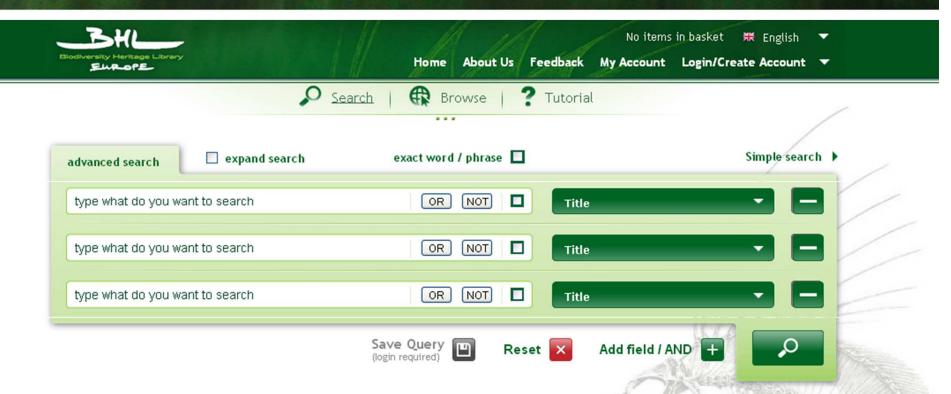


### portal front page





#### portal advanced search

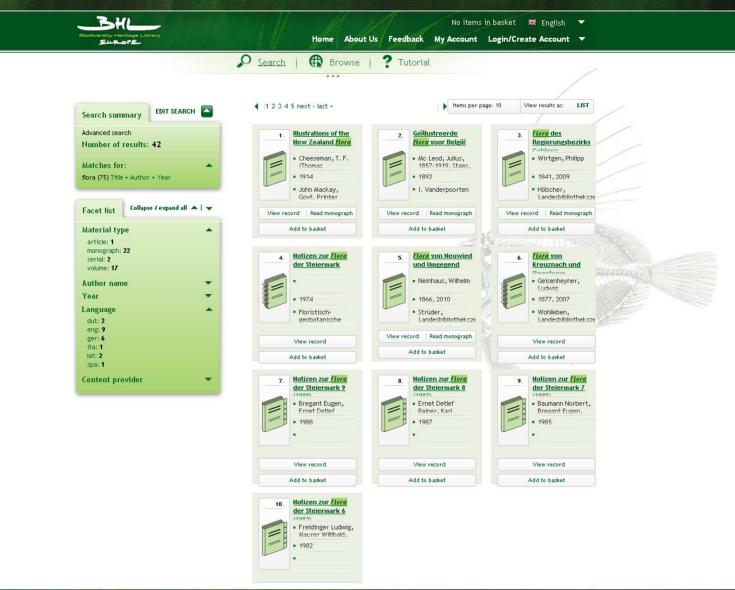


#### Your search yielded no results

- · Check if your spelling is correct.
- Remove quotes around phrases to search for each word individually. bike shed will often show more results than "bike shed".
- Consider loosening your query with OR, bike OR shed will often show more results than bike shed.



#### portal result list



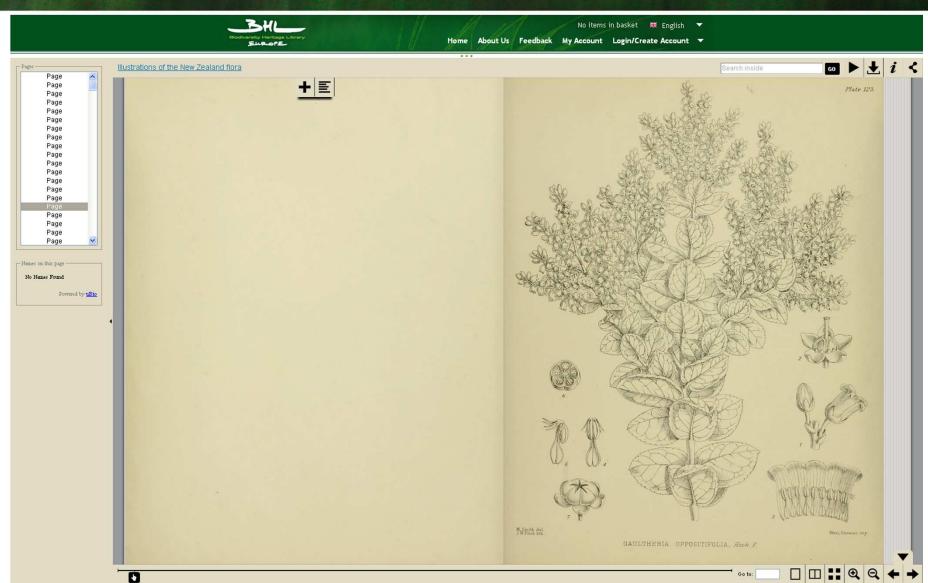


## portal bibliographic page





### portal content viewer





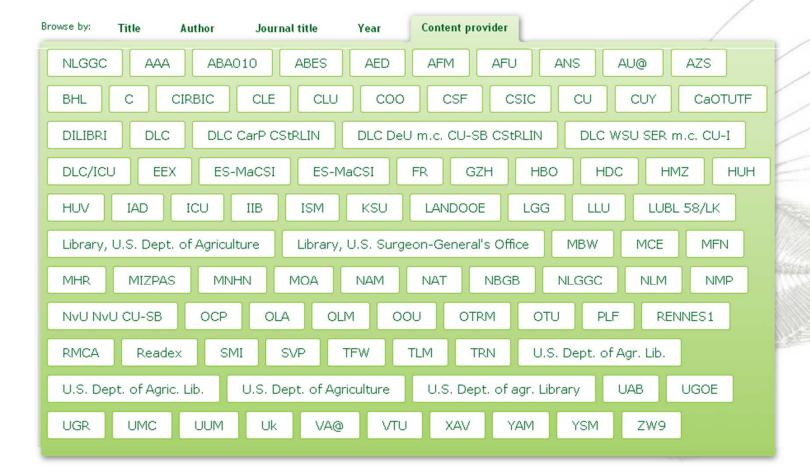
#### portal browse



No items in basket ₩ English ▼

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www.bhl-europe.eu





- Content from 94 content providers
- Majority from US
- ➤ About 1/3 from European institutions



## sustainability

- ➤ BHL-Europe needs to show:
  - > sustainability and positive trends in growing content
  - ➤ Increasing number of European books from European content providers



#### perspectives

- ➤ BHL-Europe as a robust European aggregator of biodiversity heritage literature
- Cooperation with BHL-US, BHL –China,
- > and other BHL portals
- Search for suitable funding











#### BHL-China















#### BHL-China













## Biodiversity Heritage Library BHLAFRICA

### BHL-China: How?

#### MEMORANDUM OF UNDERSTANDING

cooperate with Internet Archive to pack and ship the Equipment to such location

#### Not a Legal Partnership

The parties do not intend to create a legal partnership, principal/agent, or joint venture relationship and nothing in this MOU shall be construed as creating such a relationship between the parties. Neither Party may incur any obligation on behalf of

This MOU is non-exclusive, and in no way restricts either IA or the IBCAS from participating in similar activities or arrangements with other public or private initiatives, organizations, or individuals.

This agreement is valid until one year after the delivery date of the 1st Scribe, and may This agreement is valid unitione year after the derivery date of the 1° Scribe, and may be renewed upon mutual written agreement of the parties. Should the agreement not be extended, IA will take back the hardware within one month after the end of the MOU. Either Party may withdraw from the MOU by providing written notification to the other Party 90 days in advance of withdrawal.

This MOU and the obligations set forth herein shall be subject to available funding and nothing in this MOU creates any financial obligation on the part of either Party.

Date: 20 Apr., 2010

General Director of the Institute of Botany, CAS

1. Signed the MOU of IA & IBCAS in Apr.

> 2. On-site installation of one Scribe and staff training in Aug. when mini Beijing scanning center was set up.



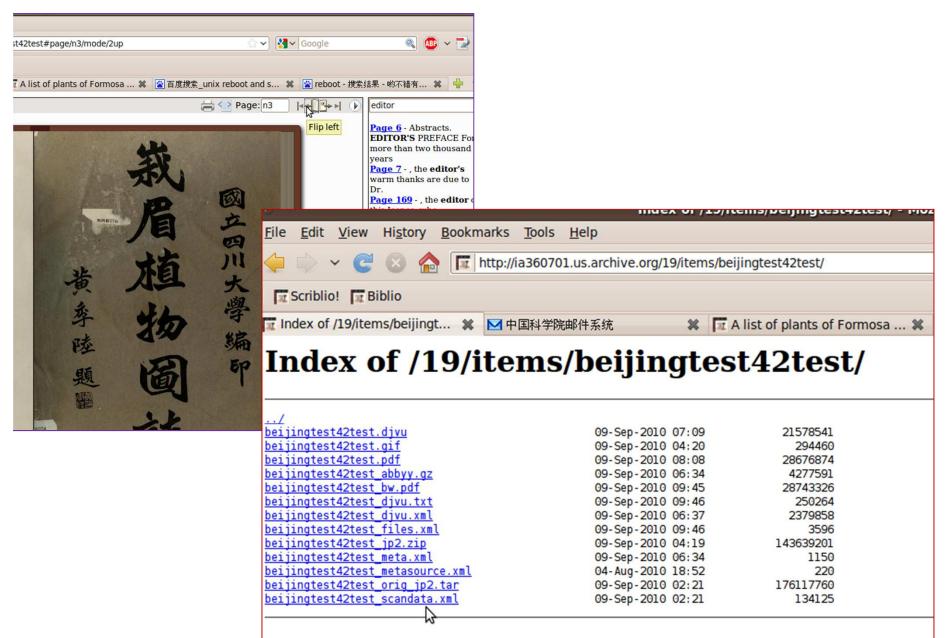


3. The Scribe in Beijing functioned in late Aug.

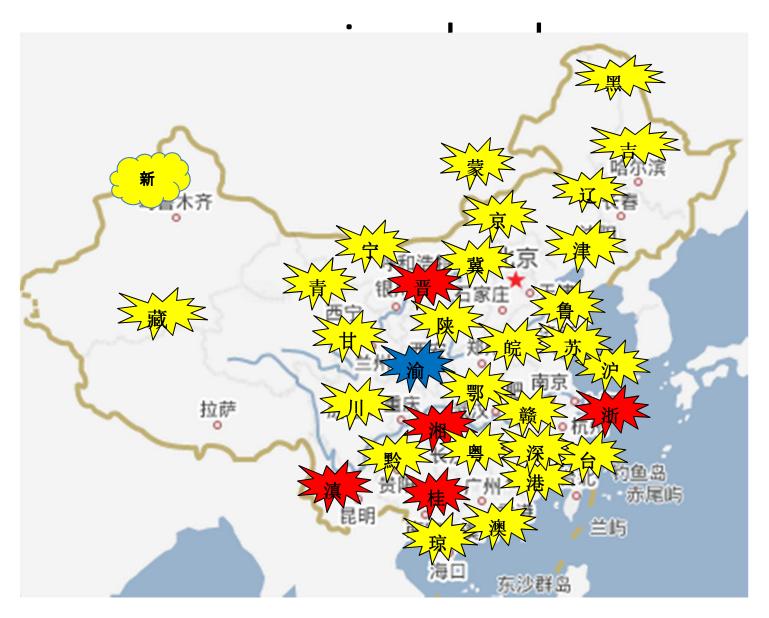
> 4. Scanning rate speeding up.



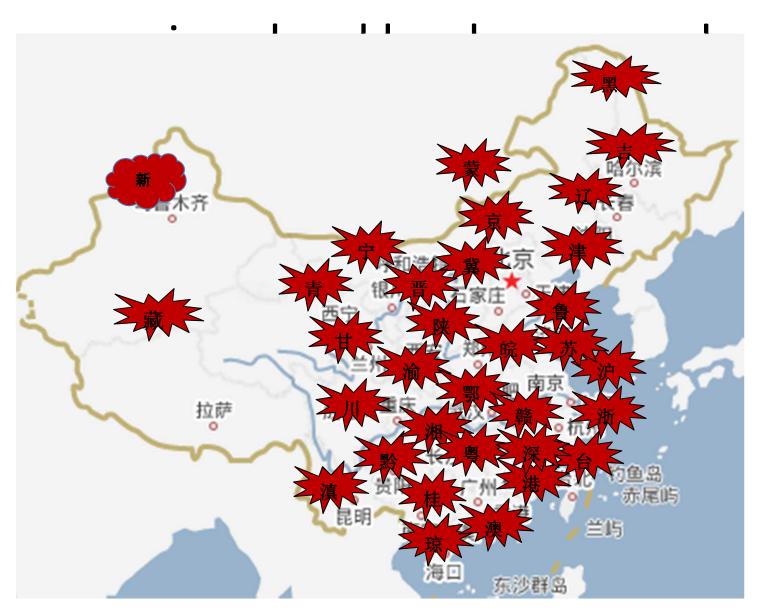


























## BHI-China: How OCR a book?



#### SELA GINEL A CEAE

#### 4. 红枝卷帕园枝卷帕

Selaginella sanguinolenta (Linn) Spring in Bull. Acad. Roy. Sci. Bruxelles.

10: 135, 1843.

Lycopodium sanguinolentum Linn. Sp. Pl.: 1104. 1753.

土生或石生,旱生,夏绿蕨类, 高 (5-) 10-30厘米, 匍匐, 且横走根茎,茎枝纤细,交织 成片。根托在主茎与分枝 上断 续著生,由茎枝分叉处 下面生 出,长2.5-5(-15)厘米,纤细, 径0.24-0.38毫 米;根多分叉, 密被根毛。 主茎全部分枝,非 **之字形**, 或多少呈之字形, 主 茎下部 径0.36-0.74毫米,茎圆

柱 状,无沟槽,红褐或褐色, 无毛,内具维管束1条,侧 枝三至四回羽 状分枝,相邻侧枝间距2-4厘米,分枝光滑,末回分枝 连叶宽0.7-1.9毫 米。叶覆瓦状排列,不明显的二型,叶质较厚,表面光滑,边缘不为全 缘或近全缘,不具白边;主茎上的叶覆瓦状排列,略大于分枝的叶,略 二型,中叶绿色,披针形或卵状披针形, 鞘状,叶背呈龙骨状,基部盾 状,边缘撕裂,有睫毛。主塞的腋叶 较分枝的大,窄长圆形,先端圆 钝,基部盾状;分枝的腋叶对称, 窄椭圆形或窄长圆形,长0.8-2.1毫 米,边缘撕裂,有睫毛 中叶 多少对称,主茎的略大于分枝的,分枝的 卵状斜方形,长0.8-1.5毫米,覆瓦状排列,容状降起或降起,叶先端与 轴平行,具小尖头,基部斜,盾状,边缘近全缘或撕裂状并具睫毛;侧 叶不对称,主蓬 的较分技的大,分技的长圆状倒卵形或倒卵形,略斜 升,紧密排列, 长1-2毫米,先端短芒状或具小尖头,基部上侧不扩大, 覆盖小枝, 上侧边缘隙质近全缘,基部下侧下延,撕裂状并有睫毛。孢 子叶穗紧 密,四棱柱形,单生于小枝末端,长0.6-3 (-8)厘米;孢子叶 与营养叶近似,孢子叶一型,无白边,宽卵形,边缘略撕裂状并具 睫 毛,锐龙骨状,先端尖;大、小孢子叶在孢子叶镰下侧间断排列。 大孢 子浅黄色: 小孢子桔黄或桔红色。

#### 图38彩片13

Selaginella tamariscina (P. Beauv.) Spring in Bull. Acad. Roy. Sci. Bruxelles 10: 136, 1843.

Stachygynandrum tamariscinum P. Beaux. in Mag. Encycl. 11: 483.

土生或石生,复苏蕨类,呈垫状。根托生于茎基部,长0.5-3厘米, 径0.3-1.8毫米,根多分叉,密被毛,和茎及分枝密集形成树状主干,有 时高达数十厘米。主某自由部羽状分技或不等2叉分技,非之实形,无 关 节,禾秆色或棕色,不分枝主基高10-20 (-35)厘米,基卵状圆柱 形,无 沟槽,光滑,维管束1条;侧枝2-5对,二至三回羽状分枝。



m stuttete Ple Olisa

产黑龙江、辽宁、内蒙古、河 北、山西、河南、陕西、宁夏、甘 肃、青海、新疆、贵州、四川、云 南及西藏,生于海拔1400-3450米 石灰岩上。蒙古、俄罗斯西伯利亚 及喜马拉雅有分布。

[附]白边卷柏彩片12 Selaginella albocincta Ching in Acta Bot. Yunnan. 3 251.1981. 本种与 红 技卷柏的主要区别:叶有白边。 产 四川西南部、云南西北部、西藏 东 部及东南部,生于海拔1700-3250 米热可谷岩石山坡灌丛下。

小枝稀疏,规则,分枝无毛,背腹 扁,末回分枝连叶宽1.43.3毫米。 叶衣互排列,一规,叶质厚,光 滑,边缘具白边,主茎的叶较小枝 的略 大,覆瓦状排列,绿或棕色,

**ABBYY 10.0** 











#### **Institute of Zoology, CAS**

Zoology(fauna)

Marine

biology

Paleobiology

**Botany** (Flora, plant checklist, field survey reports), Plant ecology, fungi, algae checklist, fossil plants, agriculture, forestry, etc.

Microbiology

More--

**Institute of** Microbiology, **CAS** 























#### Based on data of BHL-USA

200	Se	earch	Po	ortal	China	(中国)	BETA
- PA	Bio	divers 78,112,	ity F 315 Na	lerita mes in 3	ige I 1,744,	Libra 494 Pa	ges

BHL中国	(BHL China)	BHL	Contact	About us	Fee	dBack
Names:	Ginkgo bil		Search			
Titles:		A	Authors:			

Results for: Ginkgo biloba

Title: Enumeratio plantarum (in Japonia sponte crescentium hucusque rite cognitarum, adjectis descriptionibus specierum pro regione novarum, quibus accedit determinatio herbarum in libris japonicis So mokou zoussetz xylographice delineatarum /auctoribus A. Franc(1879.v. 2 (1879))

Source: Missouri Botanical Garden

Publisher: Parisiis: F. Savv. 1875-79. (Franchet, A. R. & P. A. L. Savatier)

In Pages: 742, 677.

Title: Plantae Wilsonianae : an enumeration of the woody plants 1907, 1908, and 1910 /by E. H. Wilson, ed. by Charles 8576 Source: Missouri Botanical Garden

Publisher: Cambridge: The University press, 1913-17. (Sargent, C. S.)

In Pages: 1, 642,

Link to the literature of BHL-USA

rsity during the years

Title: Plantae Wilsonianae : an enumeration of the woody plants collected in western china for the Amore appore can be necessary of the woody plants collected in western china for the Amore appore can be necessary of the woody plants collected in western china for the Amore appore can be necessary of the woody plants collected in western china for the woody plants collected in which we would be a support china for the woody plants china for the woody plants china for the woody plants china for the woody p 1907, 1908, and 1910 /by E. H. Wilson, ed. by Charles Sprague Sargent.(1917,1917 v.3)

Source: Missouri Botanical Garden

Publisher: Cambridge: The University press, 1913-17. (Sargent, C. S.)

In Pages: 609, 487, 484,

Title: The illustrated dictionary of gardening to practical and scientific encyclopædia of horticulture for gardeners and botanists /edited by George Nicholson; assisted by J.W.H. Trail ... and J. Garrett ... (1884.v. 3)

Source: Missouri Botanical Garden

Publisher: London: L.U. Gill, [1884]-88. (Nicholson, G.)

In Pages: 68,

Title: The illustrated dictionary of gardening a practical and scientific encyclopædia of horticulture for gardeners and botanists /edited by George Nicholson; assisted by J.W.H. Trail ... and J. Garrett ... (1884, v. 9)

Source: Missouri Botanical Garden

Publisher:London:L.U. Gill,[1884]-88.(Nicholson, G.)

In Pages:451, 454,

Title: Nomenclator hotanicus renumerans ordine alphabetico nomina atque synonyma, tum generica tum specifica, et a Linnaeo et recentioribus de re





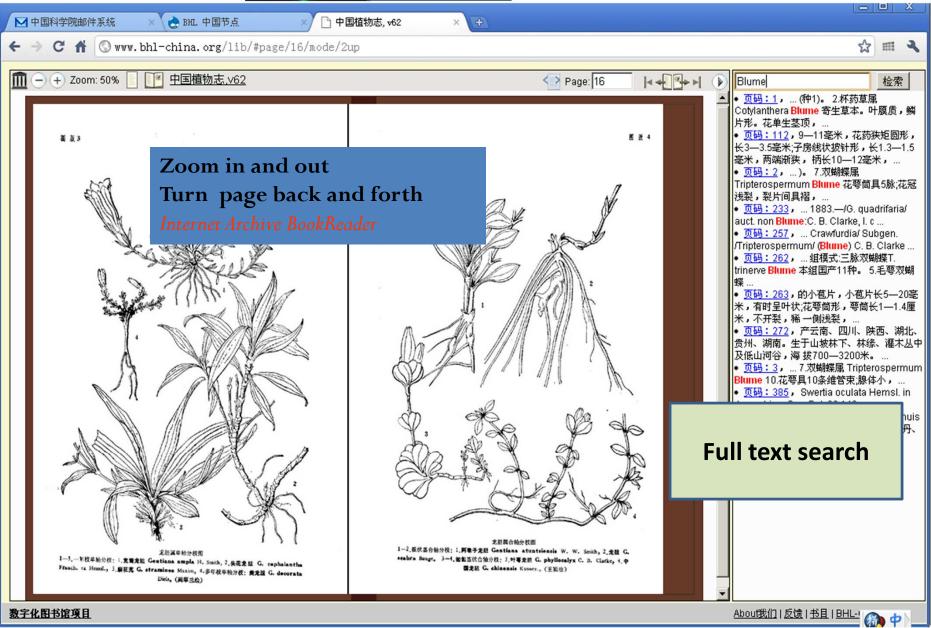
数字化图书馆项目





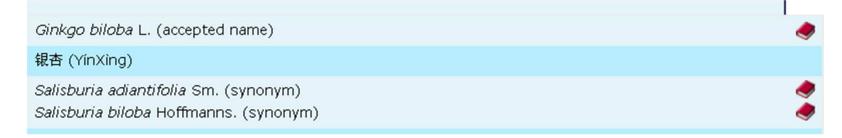


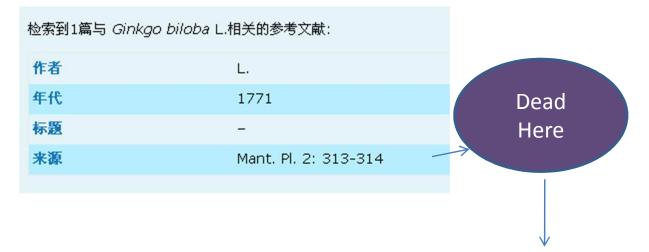






### Literature





**Let Link to Literature Move On!** 







### BHL-China

- BHL-China members visited SIL and MOBOT in early November to discuss project status and future collaborations and development
- Has digitized Chinese materials and made now available 893 volumes from 869 titles, containing 292166 pages in their collections.
- Has copied all content sent from Cluster
   (12,586 entries so far), waiting for the rest...













### **-L-Australia**



Biodiversity Heritage Library AUSTRALIA

About BHL

Contact Us

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.

Search Our Collection



#### Browse Our Collection



Titles



Authors



Maps



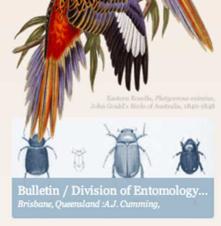
Year

#### Featured Books









http://www.ala.org.au/







versity age







Contact Us





### Biodiversity Heritage Library AUSTRALIA

About BHL

Authors Titles Maps Maps Year Search Browse Australian grasses and pasture plants: with notes on native fodder shrubs and trees ... Summary Volumes Title (no volume description) Australian grasses and pasture plants: with notes on native fodder shrubs and trees / by Fred Turner; drawings by Mary I. Turner. Contributing Library: University of California Australian Grasses and Pusture Plants Libraries (archive.org) By Sponsor: MSN Turner, Frederick, 1852-Date Scanned: 12/22/2006 Publication info Melbourne: Whitcombe & Tombs, [1921] Copyright & Usage: Subjects Copyright Status: NOT\_IN\_COPYRIGHT Copyright Region: US Australia, Forage plants Copyright Evidence: Evidence reported by james-hixon for item australiangrasseooturniala on December 20, Find in WorldCat 2006: no visible notice of copyright; exact publication date unknown. Download book: POF OCR View Book



























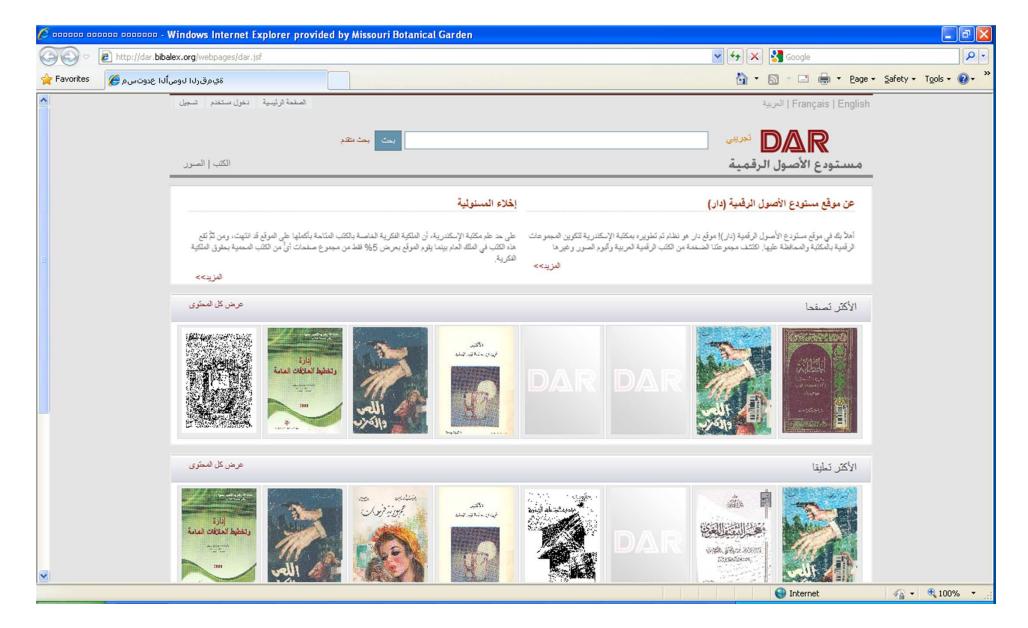


### BHL Australia

- Improved UI.
- Visited MOBOT in November 2011
- Shared Metadata DB between systems
- Jointly development of tools with BHL-US
- Accessing content from IA
- Started to digitize and upload content to Internet Archive.
- Worked closely for BHL-AU/US-ome



# Bibliotheca Alexandrina













## BHL-Egypt

- The Digital Assets Repository (DAR) is a system developed at the Bibliotheca Alexandrina, the Library of Alexandria, to create and maintain the Library's digital collections.
- Bibliotheca Alexandrina has copied content from disks and downloaded the rest from Internet Archive (80K).
- Had created a team to setup a BHL portal.
- Promote synchronization at the Global BHL Technical Meeting in Berlin in June.
- Library Director has moved to a new position.





















### BHL-SciELO Brazil

- Had been contributing content to BHL via Citebank
- Had installed two digitization stations
- Had visited the US to meet SIL and MOBOT staff and work on familiarizing with tools and determine best practices













### Scielo - Brazil



### **Bibliotecas**

Rede nacional de bibliotecas em biodiversidade.

#### Rede Internacional

gBHL - Global Biodiversity Heritage Library.

#### **BHL Brasil**

Coleção internacional de obras digitalizadas da BHL sobre o Brasil

#### BHL Global

Coleção internacional de obras digitalizadas da BHL

#### Legislação em Biodiversidade

Coleção atualizada da legislação brasileira

#### Repositório BIOTA/FAPESP

Artigos científicos do Programa BIOTA/FAPESP.

Inscrições até amanhã!!!

mais...

Powered by Feed Informer

#### Twitter







- Has now installed four digitization stations:
  - Museu de Zoologia da USP
  - Instituto Butantan (finalized)
  - Jardim Botânico do Rio de Janeiro
  - Museu Paraense Emilio Goeldi.
- Has scanned more than 500 works.
- Metadata conversion finalized for the scanned books and started the test phase.





 Planning on generating Marc XML to have books ready available for the next gBHL Meeting in Morocco in May.

 Has asked for the Portal code to translate into Portuguese and show content from Brazil.

Will attend gBHL Meeting in Morocco.









### BHL-Africa

 Planning on generating Marc XML to have books ready available for the next gBHL Meeting in Morocco in May.

 Has asked for the Portal code to translate into Portuguese and show content from Brazil.

Will attend gBHL Meeting in Morocco.