

ECP-2008-DILI-518001

BHL-Europe

BHL-Europe promotion kit

Deliverable number D5.6

Dissemination level Public

Delivery date 5 November 2009

Status Final

Author(s) *Jiří Kvaček*



eContentplus

This project is funded under the *e*Content*plus* programme¹, a multiannual Community programme to make digital content in Europe more accessible, usable and exploitable.

_

¹ OJ L 79, 24.3.2005, p. 1.



0 Document History

0.1 Contributors

Person	Partner
Jiří Kvaček	NMP
Pavel Douša	NMP
Henning Scholz	MfN

0.2 Revision History

Revision Date	Author	Version	Change Reference & Summary
12 October 2009	Jiří Kvaček	0.1	Initial draft of D5.6
3 November 2009	Jiří Kvaček	0.2	Revision based on CWG comments
4 November 2009	Jiří Kvaček	0.3	Revision based on comments by H. Scholz
5 November 2009	Jiří Kvaček	1.0	Final version

0.3 Reviewers and Approvals

This document requires the following reviews and approvals.

Name	Position	Signature on approval	Date	Version
Henning Scholz	BHL-Europe PCO		5 November 2009	1.0

0.4 Distribution

This document has been distributed to:

Group	Date of issue	Version
CWG	12 October 2009	0.1
BHL-Europe consortium	29 October 2009	0.1
BHL-Europe consortium	12 November 2009	1.0

2/5 5 November 2009



Table of contents

0	Doc	UMENT HISTORY	.2
		Contributors	
		Revision History	
	0.3	Reviewers and Approvals	
		Distribution	
		-EUROPE INTRODUCTION	
		-ELIDODE DISSEMINATION	



1 BHL-Europe introduction

BHL-Europe is a Best Practice Network co-funded by the eContent*plus* programme of the European Commission. It aims to develop a single access point to the digital resources of European taxonomical literature.

As a result of the BHL-Europe project, taxonomical literature including illustrations will be accessible online via the BHL portal. 28 partners from 14 countries will contribute to achieve this goal. Content will be provided by most of the partners.

The Biodiversity Heritage Library Portal will be linked to the Europeana Portal (http://www.europeana.eu) which provides integrated access to digital treasures from European's museums, archives, audio-visual archives and libraries.

By making BHL-Europe's aggregated content available through Europeana, The Biodiversity Heritage Library for Europe will contribute to fulfilling one of the major promises of an integrated digital environment: to enable users to search and retrieve different media via a single access point.

2 BHL-Europe dissemination

The BHL-Europe dissemination activities aim to promote and disseminate information on the BHL-Europe project outcomes and to encourage stakeholders to contribute content to the BHL gateway and to Europeana. BHL-Europe will produce a consistent set of communication activities to ensure that project results become known and used by our target users. The experienced team from the National Museum in Prague (NMP) is responsible for leading the dissemination activities.

Communication will take place at three different levels to ensure dissemination for awareness, dissemination for understanding and dissemination for action. The details are further explained in the BHL-Europe dissemination plan (D5.5). Reaching the target groups of the project and stakeholders, one mechanism for dissemination and awareness raising activities is the dissemination through BHL-Europe Web site and other promotional materials for all target users and the European Commission.

The BHL-Europe project Web site (http://www.bhl-europe.eu/) aims to provide information on the project's progress and results and to offer access to all public documentation and deliverables produced in the course of the project to project partners.

We have already produced flyers, power point presentation templates and posters for dissemination of the project in numerous conferences and public events. They were distributed to our partners to start dissemination activities. The flyer is written in English, but versions in major European languages are being already prepared. We developed a template for the poster to adapt text and images according to the target audience without changing the design concept of the poster.

4/5 5 November 2009



Other items of the BHL-Europe promotion kit are pencils, business cards for Work Package leaders, and letter papers. All details of major products of our promotion kit are illustrated in the Annex of this report.

Working closely with other partners, NMP edits and publishs four editions of an electronic newsletter per year. It is aimed to communicate news and achievements of BHL-Europe to the public as well as publish information on digitisation initiatives, biodiversity libraries and other relevant issues. An extensive mailing list is required to achieve a wide distribution of the newsletter. Pooling existing contacts of consortium members and additional research will result in a comprehensive set of contact details to be used for the project's networking activities to be maintained throughout the duration of the project.

NMP and leading project partners such as the Work Package leaders coordinate the planning of presentations of the project at relevant conferences and meetings. A database of conferences and meetings was created to identify relevant events and to identify the relevant consortium member to attend the event and present the project and its result. This database is developed continuously.

Promotional workshops will be held at national or regional level. A series of presentations at conferences towards the beginning of the project will aim to raise awareness. Partners will be responsible for local organisation and documentation of events. In addition they will promote the project and the activities of BHL-Europe at their national level and undertake appropriate advocacy. In addition, there is a mutual information flow of relevant conferences/events between BHL-Europe and Europeana. The events calendar for Europeana, related projects and other important events is regularly updated on the EuropeanaV1.0 project website (http://www.version1.europeana.eu/web/guest/calendar). This exchange of events information results in an even wider dissemination of biodiversity related events towards European citizens.

5/5 5 November 2009

Manual



Biodiversity Heritage Library

EUROPE





Logo and motive 1.1 Logo and variations Print 2.2 Heading paper with address 2.7..... Pencil 2.8...... Bag Desk calendar 2. 11. Orientation schedule of conference Media . . . Powerpoint presentation 3.2.1 Newsletter headpage 3. 2. 3 Newsletter, page 11-19 3. 2. 4 Newsletter, page 20-28

















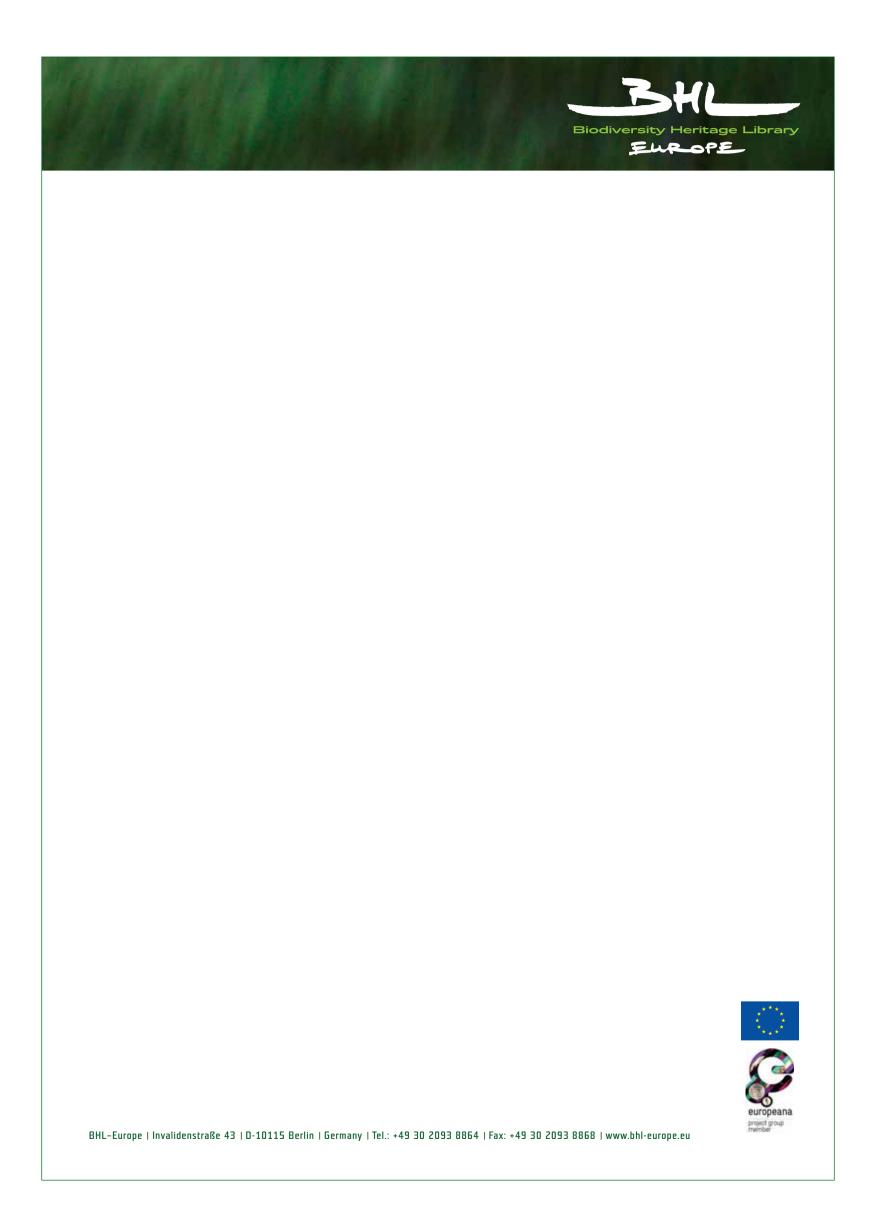


Format 90 x 50 mm











Format 120 x 120 mm





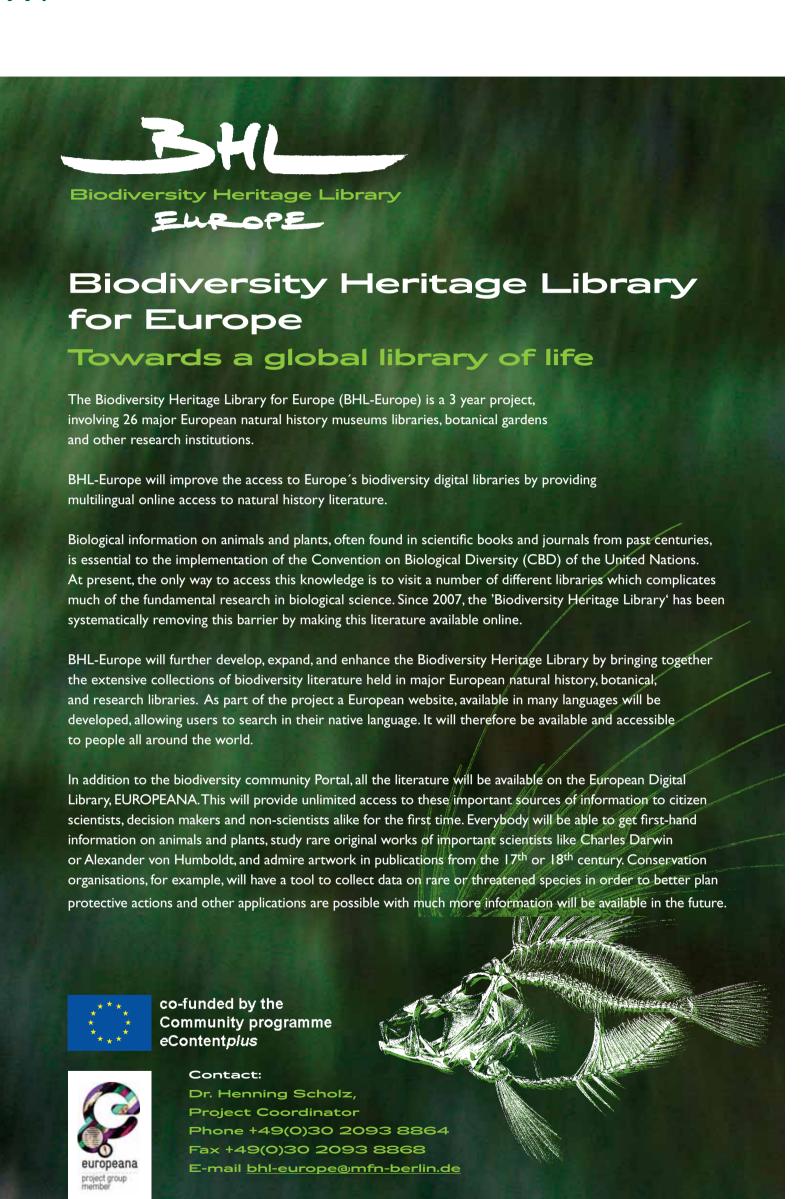


Format 75 x 210 mm











Format AO, A1, A3, A4



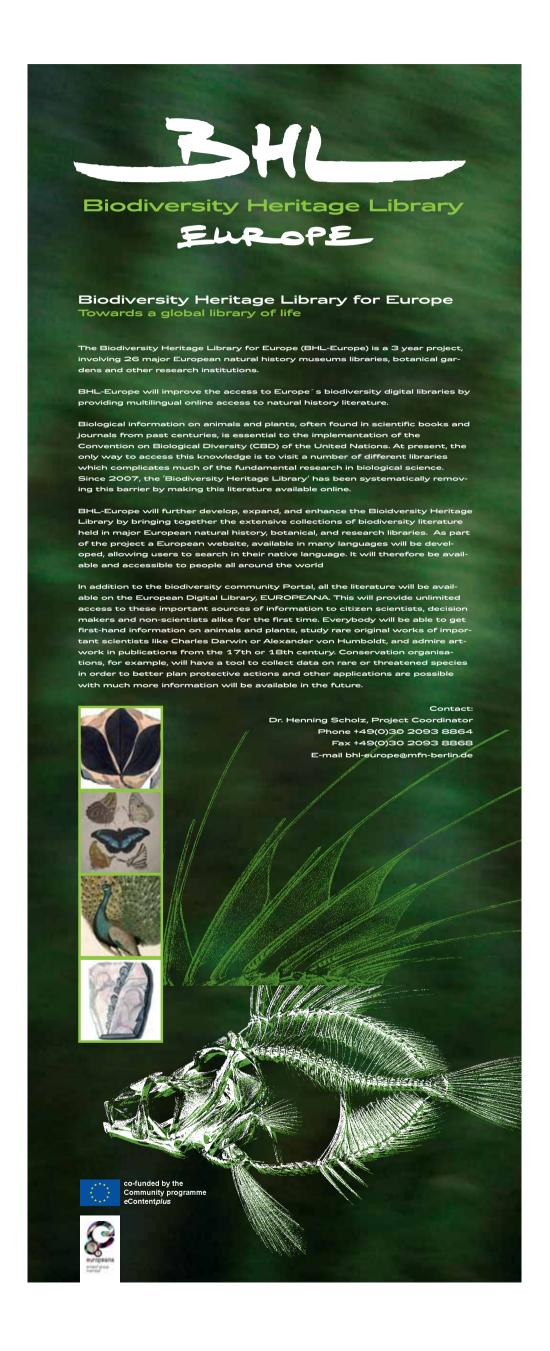








Format 85 x 210 cm





Format 85×210 cm





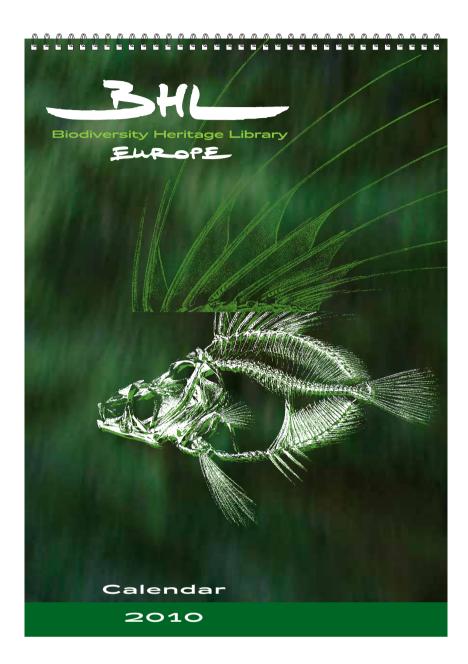










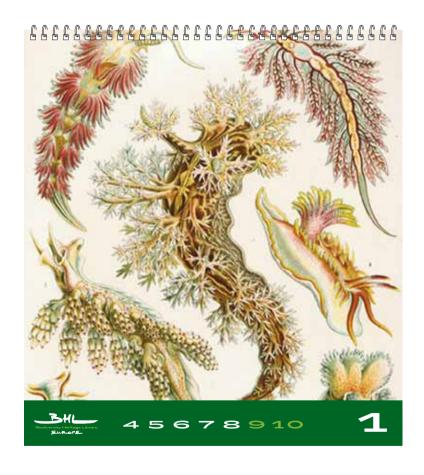




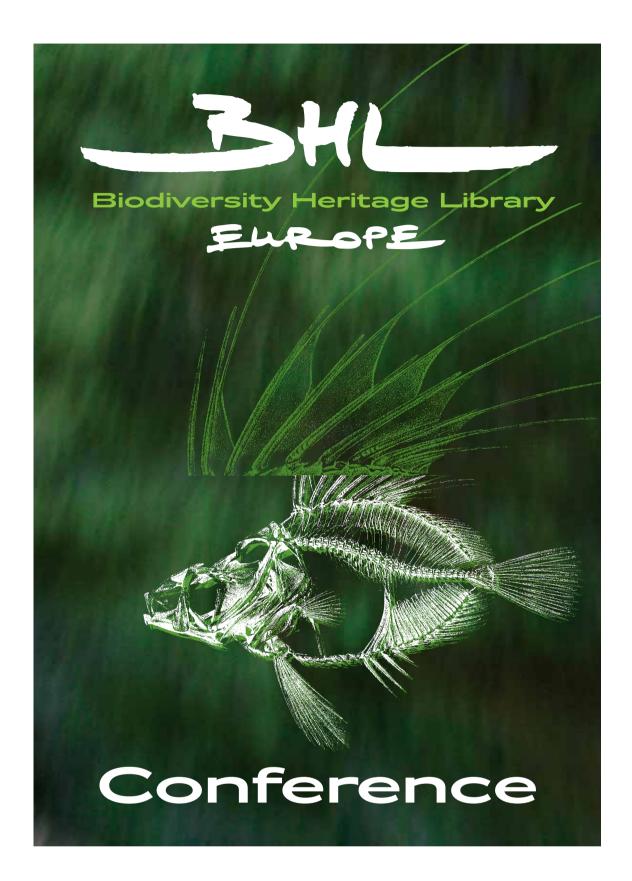


Format 100 x 110 mm





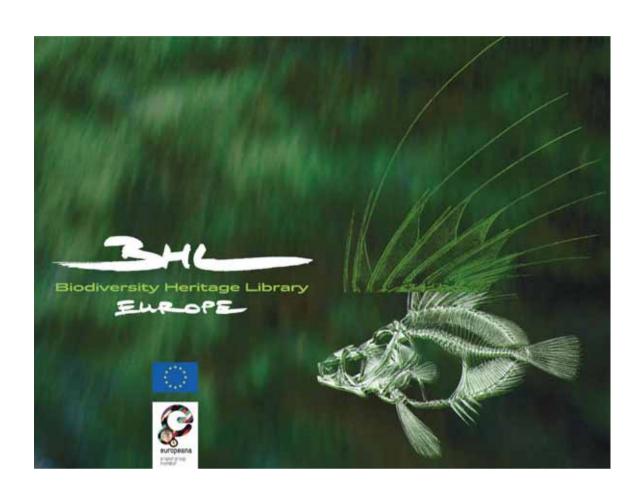




Format 210 x 110 mm

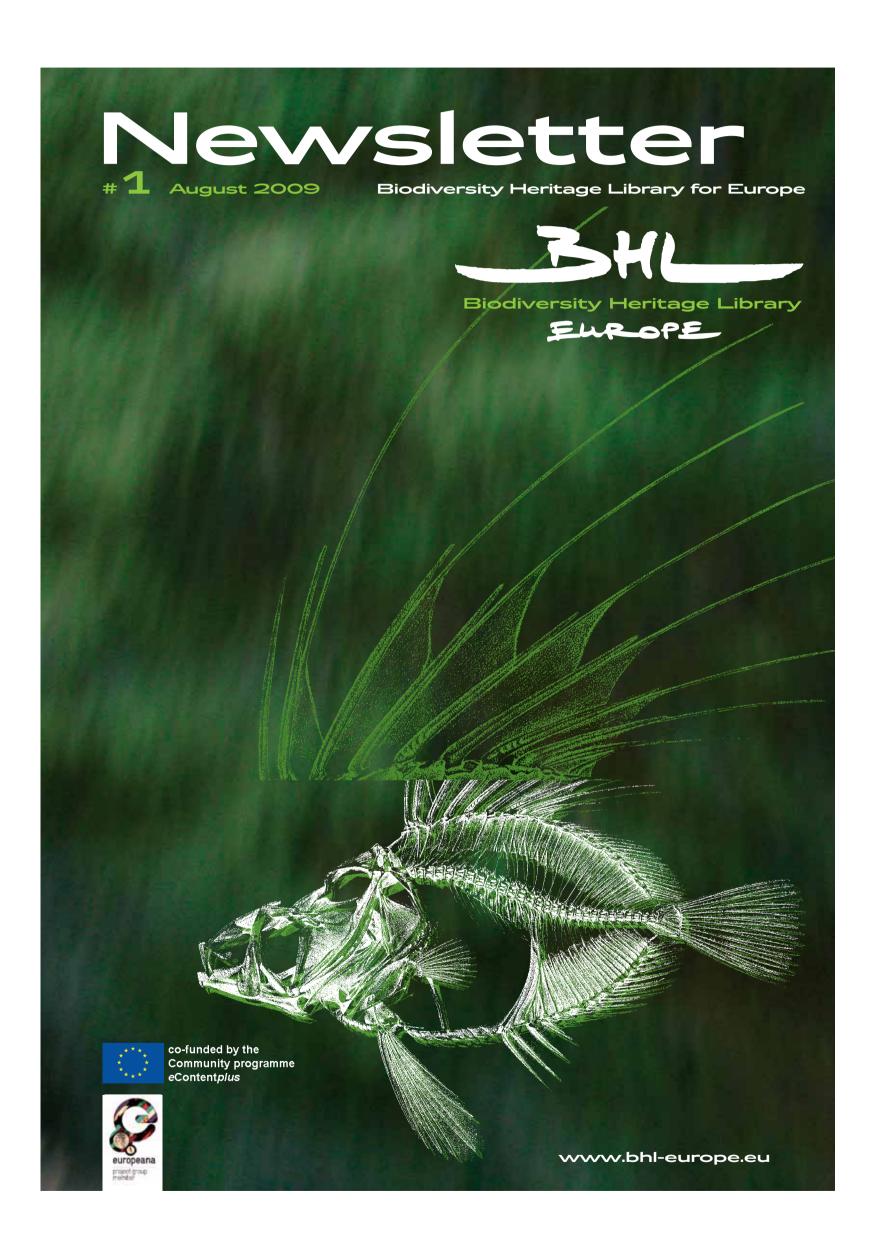




















Catalogue of content holder requirements (quality, quantity, accessibility, standards and specifications of content and metadata) [D2.1] The first important document leading towards the development of a live BHL-Europe system was the

development of a live BHL-Europe system was the content holder requirements. This document provides a minimum specification for the supply of metadata and digital image tiles sent to the BHL-Europe project. If will be the base for the content delivery to BHL-Europe agreed between all partners.

Metadata and content harmonisation
The harmonisation of metadata is a very important
aspect of the project as every partner is using different standards, different interfaces or different
content type. The first test sets of metadata from content type. The first test sets of metadiata from-four consortium partners were imported to a rela-tional database. In addition, the input of a book-accompanied by bibliographic metadata was test-ed using an interim solution. We are now ready to ask for more metadata from other partners to elaborate further on the mapping procedures.

Board (TMB) was made up from a number of inst tutions and companies within BHL-Europe, the Kick-off Meeting in Berlin [M1.1]

The Kick-off Meeting of BHL-Europe Including two initial workshops was held in Berlin (Museum für Naturkunde) from 10 to 15 May 2009. The main points of that meeting included information about BHL and the BHL-Europe objectives, the introduction of partner institutions and their scanning operations, the constitution of two working groups on the project including the initial workshops for these groups. All our partners sent representatives and altogether up to 60 people attended the meeting. tutions and companies within BHL-Europe, the members includer Kai Stalmann (Museum für Naturkunde Berlin, Leader Work package 2), Adrian Småles (Natural History Museum London Leader Work package 3, Chair 178B). Bernard Scalfe (Natural History Museum London), Walter Koch (Angewandte Informationatéchnik Forschungsgesellischaft miblh), Christopher Freeland (Missouri Botanical Garden), Julie (Natural Missouri Bot verreyen (European Digital Library Foundation, Europeana), Antion Gainstein (Botanicial Garden Berdin, EDIT). The board will have to find a suitable replacement for Bernard Scalle, as he will be leav-ing the NHM and the BHL project as of 14th Adgust 2009.

he BHL-Europe Architecture

BHL-Europe Architecture
The owerall BHL-Europe system architecture has
been elaborated. As a tool for repository management, Fedora/Commons was selected. Emphasis
is put into three components; pro-ingest (metadate)
harmonisation and creation, semantic enrichment
using ontology WebServices), storage (infegrating
cloud technology) and access (providing imutilinguality and ontology support for query expansion).

yez ste, including multimetrial presentation [D5.1]
The Web site of BHL-Europe has been functional since 31 July 2009 under http://www.bhl-europe.eu. It aims to inform the target users about the project and it's progress, the partners and team members, related originists and important events. It will also

BHL Newsletter # 1- August 2009 4





europeana Network project that began in February 2009. It is coordinated by the EDL Foundation. http://www.europeana.eu/ is a portal that brings together cultural and scientific material from Europe's libraries, muse-ums, archives and audio-visual archives. Highlights include the Rijksmuseum in It is coordinated by the EDL Foundation. The Foundation was set up to run Europeans and act as a partner and coordinator in a range of projects that will develop the portal and related services in the coming years. These projects are run by different cultural heritage institutions and comprise the Europeana Group of projects. erdam, the British Library in London, and the Louvre in Paris. Currently Europeana.eu links you to 4.5 million dig-ital items. These are images, texts, sounds and videos. This website is a prototype. The next step to develop the Europeana prototype into a fully functional and operational website is being carried out by a new project, Europeana version 1.0. This will allow users to access over 10 million digital tense by 2010.

Europeana version 1.0 focuses on users' involvement in the development of Europeana, so that they can themselves determine the services they want. Europeana content will be given for the services when the services were virtual space. These round be college and school veballes, special bitierest rices, virtual fearning and research environments, beings and spocial networks.

Europeana's interface is already mutitinguist; This website is a prototype. The next step to works, Europeanis' interface is already multilinguist; Europeanis' interface is already multilinguist; Europeanis' interface is already multilinguist; the next step is to start making the spirit, and an experimental exper

BHL Newsletter # 1- August 2009 6

scanning initiatives once a large coordinating project like BHL-Europe is in place.

ies, available for everybody with interest in l diversity through a global portal (BHL) with specific biological functionality (e.g. taxono

audience through EUROPEANA.

intelligence) and to a wide European cultural

he history and sociology of European science provide access to culturally-important docu-

nents - from Darwin, Linnaeus, von Humboldt,

Wallace, Cuvier, Merian, etc. - provide access to many beautiful and culturally important insigned botanical drawings, zological drawings, witercolours, etc.

2) Providing access to the blodiversity literature (images and text) using a common global, portal with inferaited and sophisticated search tools will produce a number of long-term benefits for the European and global biology communities. These outcomes include:

ing countries back to those countries via the

Web · capacity building in the developing world viously published in-copyright content

BHL

Benefits of BHL-Europe

Meetings TDWG 2009 Annual Conference

Forthcoming meetings
Workshop on Advanced Technologies
for Digital Libraries, Trento, Italy
8 September 2009
deadline for registration August 25, 2009
Link: http://www.cacaoproject.eu/ai4dl

The workshop aims to bring together the various stakeholders in order to present to them an overview of the state-of-the-art systems in this field and identify open research problems

9-13 November 2009

http://www.tdwg.org/conference2009/ Biodiversity Information Standards (TDWG) was previously known as the Taxonomic

Database Working Group. Information Standards (TDWG) now focuses on the development of standards for the exchange of biological/biodiversity data.

Meetings attended

Systematics 2009, Leiden

Link http://www.biosyst.eu/ Systematics 2009 was the first meeting of Biosyst EU and the 7th Blennial Conference of the Systematics Association. Several formal symposia and numerous contributed paper sessions were scheduled to cover a large vari-ety of topics.

BHL-Europe at Systematics 2009

BRIL-Europe at systematics 2009 in Leiden
BRIL-Europe was invited to give a Keynote lecture during this Systematics 2009 conference. The presentation was given by the Project Coordinator, Henning Scholz, on Wednesday, 12 August 2009. The lecture ande to infroduce the project to the scientific community. An overview was given outline past achievements and future activities. A call for participation was made during the lecture which was intended to encourage the audience to help us in improving BRIL in the future. This hopefully will lead to contact between potential and future content providers and also to get feedback for future improvements of the BRIL-Europe system.

BHL Newsletter # 1- August 2009

·ocus

Welcome to the Biodiversity Heritage Library for Europe

The Biodiversity Heritage Library for Europe (BHL-Europe) is a project involving 26 major European natural history museum libraries and botanical librar ies and two libraries from the United States. It is a part of the global Biodiversity Heritage Library network and Europeana – European digital library.

Biological information on animals and plants, often found in scientific books and jour Nations. At present, the only way to access this knowledge is to visit a nuaries which complicates much of the fundamental research in biological Since 2007, the 'Biodiversity Heritage Library' has been systematically rem

BHL-Europe will further develop, expand, and enhance the Biodiversity Heritage Library by bring ing together the extensive collections of biodiversity literature held in major Euro arch libraries. As part of the project a European site and a multi-lingua software interface will be developed. These and other enhancements will make the project

mportant sources of information. Everybody will be able to get first-hand information on animals and plants study rare original works of important scientists like Charles Darwin or Alexander von Humboldt, and admire artwork in publications from the 17th or 18th century.

Our ambitious plan is to produce a robust facility, which will be the main source of knowledge for

The libraries of the European natural history museums and botatilical gardens collectively-hold the majority of the world a published knowledge in the discovery and a dussiquent, description of biological diversity. As yet this event in a fixed reader in collections. The body of biodiversity knowledge is thus effectively withfield trom us for a wide range of scientific applications, which include research, deutation, taxonquries study, blodiversity conservation, protected areas where the discovering the production of the discovering a very level libraries. From a research perspective, these collections are of exceptional value to the theory as a very level libraries. From a research perspective, these collections are of exceptional value to the theory as a very level libraries. From a research perspective, these collections are of exceptional value to the through a very level libraries. From a research perspective, these collections are of exceptional value to the through a very level libraries. From a research perspective, these collections are of exceptional value to the through a very level libraries. From a research perspective, these collections are of exceptional value to the through a very level libraries. From a research perspective, these collections are of exceptional value to the through a very level libraries. From a research perspective, these collections are of exceptional value to the through a very level libraries. From a research perspective, the through a very level libraries. From a research perspective, the through a very level libraries. From a research perspective, the two they libraries. From a research perspective, the through a very level libraries. From a research perspective, the two they libraries. From a research perspective, the two they libraries and the perspe management, disease control, and mainte-nance of diverse ecosystems services. Much of text, because that was the last time the organthe early published literature is rare or has lim-

BHL

BHL

who is interested by improving the interopera-bility of European biodiversity digital libraries. BHL-Europe will review and test different approaches for such libraries based on the approaches for such libraries based on the experiences of the partners involved in the project. The consortium will establish a best practice approach and promote the adoption of standards and apecifications for the large-scale implementation in a real-life context, BHL-Europe will provide a multilingual access point for search and retrieval of digital content through EUROPEANA. In addition, it will provide a robust multilingual portal with applications of the properties of the programment of the progr sustainability of the data produced by national community.

Once the collections of biodiversity literature are freely available on the Internet, this will be of great value to scientists, and also to a much wider public. Amateur naturalists (citzen scientists) who lack affiliation with major research

BHL-Europe is a project that will mobilise fund-

institutions will be able to search, read, down-

load, and print articles that were previously

reflect the evolution of human society ove time in relationship to its ecological conte al heritage according to Article 1 of the UNESCO World Heritage Convention. As part UNESCO World Heritage Convention. As part of this citural landscape, information on nature and biodiversity will be combined with information on archaeology and ethnology through the lead project of the European Digital Library Foundation, EUROPEANA.
Descriptions and documentations of natural phenomena, of plants, and of animals, should be considered as part of the European cultural heritagio.

heritage.

The BHL is a global project and it is vital that
Europe contributes its biodiversity literature the project and that European users have access to the global BHL project. Some of the important English language literature of Europe is aiready part of the BHL. It is essen-tial that the very significant amount of blodi-versity literature held in other European lang-guages—German, French, Jutch, Spansh, and others—is also integrated and becomes far more widely accessible to users. This requires a European effort to establish BHL-Europe as a dynamic component that will be both valua-ble in itself and also contributes to a global effort.

ing in individual EU nations in order to undertake and complete essential scanning work. Several of the partners have already indicated

ing taxonomists training programmes)
- preservation of rare and fragile materials
3) The project mobilises 28 partners (23 of
which may be literature providers) from 13 EU
countries (of which 3 are New Member States). It
is a consortium of museums, botanic gardens, universities, commercial companies, the with in biomand other EU projects e.g. EDIT (European Distributed Institute of Taxonomy), SYNTHESYS

(Synthesis of Systematic Resources), etc

audience through EUROPEANA.

[Synthesis of Syster of Sys The project will produce the following specific results:

(1) a robust blodiversity community portal with open, distributed architecture to provide multilanguage access to the digital content,

(2) = 2 s million pages of blodiversity literature from a large number of EU Member States for display through the EUROPEANA Portal,

(3) tested and validated best practice methods, standards and specifications for technology least-one of the project of the proj platforms, digitisation and image storage Wallace, Cuvier, Merian, etc. · provide access to (4) tested and validated methodology for con

(4) [4] tested and validated methodology for content enrichment].

col(5) tested and validated best practice workflow
on implementing BHL-Europe architecture,
(6) sustainable and persistent digital curation
and conservation of prace and fragile material,
ne(7) the integration of Taxonomic Intelligence
Web tools to facilitate here search for taxon-specific biodiversity information,
(8) improved efficiency of research in the biology domain; improving access to information to
non-museum biologists; building public
opengagement, awareness and participation, epatriation of species information in develop-g countries back to those countries via the (9) permission from publishers to digitise pre-

BHL

(10) a metadata repository and collection anal-ysis tool for all the leading libraries involved, (11) strategies, plans and processes for long-term preservation and sustainability of the data produced by national biodiversity digitisation programmes as part of BHL-Europe.

by 15 natural history museums and botanic gardens, two institutional archives, and libraries across 11 EU Member States and will be

he biodiversity-related content held by museums, archives and libraries - enable the actual content to be accessible and retrievable at item level by users across the European Research Area (ERA) and beyond in developing countries take full account of the users and their needs take full account of the there are and extend for the range of users.

All these open access projects will use one of the common open access [foreign gaprosches - the Creative Commons Share Alike (CC by-sa) licence.

All digitised material will have associated metadata

languages – predominately European in origin. database. This is particularly true for the old literature,

which is the core of the current project. For instance, before 1829 the most common languages in biodiversity literature are Latin (28%), German (28%), Fend (14%), Swedish (9%), English (9%), Danish (9%), Dutch (3%), Italian (2%), and Spanish (1%). BHL-Europe will have the ability to make this material available as widely as possible. The following key multilingual components are foreseen to make the filterature retrievable in many filterature programments. Contribution to programme objectives BHL-Europe will have the ability to make trins BHL-Europe focuses on Action 5.1. Best Practice Networks for interoperability of digital libraries with the objective of improving the interoperability of digital libraries currently held interoperability of digital libraries currently held seems to be a support of the control of t (Taxonomic Intelligence).

Recent target

Recent target initial work will consist of evaluation of the technological solutions sivallable, and assessment of the requirements of each content provider. We need to review the state-of-the-art technologies used by EUROPEANA and BHL for processing digital content, and we will include some of our experienced technology partners in that process. Simultaneously, each content provider will provide their specific requirements: what do they expect from BHL-Europe; how the digital content should be handled technology, see affects of the state of the dled (technically, scientifically, and legally); what data standards and specifications they intries use. This technology and content-related inforeeds matter with the secondary of the second what data standards and specifications the

initiatives and, by merging the metadata from each partner, create a virtual taxonomic library

Henning Scholz and Graham Higley

BHL Newsletter # 1- August 2009

BHL

Institutions cooperating in the project BHL-Europe



Museum für Naturkunde - Leibniz-Institut für

our numbolat-Universitat zu Berlin (min) With more than 3,00,00,000 objects, the MfN is the largest natural history museum in Germany. The library of the MfN holds 175,000 litems and currently subscribes to about 1,000 journal titles in the fields of zoology, palaeontology, and mineralogy. The museum is involved in the management of the EU IS international projects funded by the EU, BMBF (Biota, GBIF), BMU and DFG (e.g. Graduate Research Program 503). Research Program 503).

Natural History Museum (NHM)

The Natural History Museum in London is one of the world's greatest museums, with over 3,900,000 visitors per year. The NHM is also an international leader in the scientific study of the natural world. NHM has a strong track-record in EC funded research and training. It currently leads the £13m EU 19 Programme SYMTHESYS project, which provides access and training in 20 natural history museums and horbaris. NHM

works of art. The NHM is a leading participar n the BHL and an active player in the



roject. NHM has a large number of staff

including programming and database creation

Czech Republic. It conducts research in vari project, which provides access and training in 20 natural history museums and herbaria. NHM is currently in negotiation on nine FPVII professional institutions: Natural History

BHL Newsletter # 1- August 2009 12

BHL



Museum, Historical Museum, The Náprstek Museum of Asian, African and American Cultures, Czech Museum of Musicand National Museum Library. At present the National Museum houses almost 20 million items from the area of natural history, history, archaeology, arts, music and librarianship.

European Digital Library Foundation (EDL Foundation)
The Stichting European Digital Library (EDL Foundation) is a cross domain foundation, under Dutch law, set up for the purpose of festering collaboration between Museums, nives, Libraries and Audiovisual Collections in Europe. It aims to provide Collections in Europe. It aims to provided access to Europe's cultural heritage by facilitating formal agreement across museums, archives, audio-visual archives and fibraries on how to cooperate in the delivery and sustainsability of a fiont portal. It also provides a legal information Technology Partner for the Olympic Cames. At Also Origin is a leading international Theory and sustainsability of a fiont portal. It also provides a legal framework for use by EU funded projects to strong their research or content into the EUROPEANA. Its current Board of Paticipants is made up to pan-European Associations from the 4 sectors which are able to represent and, mobilits their members to contribute and form part of EU funded projects aimed at generaling a European Digital Library. These are EURBICA. FIX. ACE, EMF, ICOM Europe, CENL, CERL, Descaped and the processes and technologies enables us to processes and technologies anables us to part of EU funded projects aimed at generating a European Digital Library. These are EURBICA, FIAT, ACE, EMF, ICOM Europe, CENL, CERL, LIBER, MICHAEL, the Koninklijke Bibliotheek,

INA, the Bundesarchiv and the BnF.

Angewandte Informationstechnik
Forschungsgesellschaft mbH (AIT)
AIT is an Austrian software and research company founded in 1979. Research work is done primarily in the field of information management (e.g. distributed databases, collection management and knowledge engineering). AIT has been involved with research projects such as MOSAIC (Museums, Over States and virtual Culture Virtual Archives in XML; IST-Programme), REGNET (Cultural Heritage in REGional NETworks), Media.Alp (Setting up an integrated communication platform for achiev integrated communication platform for achiev-ing a cultural community in the Alpine space; interreg Alpine Space Programme) and DISMARC (DiScovering Music ARChives; cCon-tentplus). With DISMARC, Olds technology and protocols are used to create a common cata-logue of distributed archive metadata. At region-al jevel, ART is the technical provider for the DIS project, in which is virtual content catalogue for museums, archives, libraries and other institu-tions is being created using OAI technology and international standards (Dibblin Core).

design, build and operate practical and robust

BHL Newsletter # 1- August 2009 13

BHL

Freie Universität Berlin (FUB-BGBM)

Freie Universität Berlin (FUB-BGBM)
The Botanic Garden and Botanical Museum
Berlin-Dahlem (BGBM), with its extensive scientific collections of herbarium specimens
(about 3.5 million) and living plants, is a centre
of biodiversity research in Europe. It houses
the most complete botanical library in
Germany. The library holds a wide range of literature on plants from all over the world, in all
solided languages and from [ibrary benefits]. orinted languages and from five centuries, among them many precious and very rare books. BGBM has a separate department of books. BGBM has a separate department of Biodiversity Informatics with, at present, 20 staff members. Focal points of research and development activities are taxonomic informa-tion systems and networking of distributed pri-mary biodiversity information.



ork. In the first tep (2003-2005) more than 100,000 pages were tific zoology in the 1550s until the year 1770

and 10,000 animal names were extracted and transferred to AnimalBase. In the second step, from 2008 onwards, literature until the 1820s will be covered, with approximately 50,000 animal names being extracted.



The collections with more than 30 million spec imens, including hundreds of thousands of types, are the basis for any faxonomic work. ACTAFE (SYNTHESYS) is one of the "first addresses" for taxonomic work. Additional a bibarry with many historically important vol-umes is available. The library with c. 8000 sci-entific journals and tens of thousands of book complement the National Library of desiris an accomplement the National Library of desiris and accomplement the National Library of Adultic and accomplement the National Library of Marine Adultic accomplement the National Library of Adultic ent the National Library of Austria and the University's libraries nearby.

Land Oberösterreich (Oberoesterreichisches Landsemuseen) (LANDOE) The Biology Centre in Linz-Domach, with more than 6 million objects, represents the 2nd larg-est in Austria, if currently publishes the series Stapfla and Denisia and three other journals. It holds the biodiversity database ZOBODAT, founded in 1972 as ZOODAT. The databas today includes more than 3.3 million records literature citations (more than 33,000), OCR scanned books (~150,000 pages) and until now bibliographies from about 4,000 biologists.

BHL Newsletter # 1- August 2009 14

BHL



HNHM holds more than 10 million natural histo ry items. HNHM Library contains more than 300,000 volumes. The catalogue of the library is available on the Internet. The HMHM has published several natural history journals and books during its 200 years history. During recent years those have become available via the internet but there is a strong commitment by HMHM to digitise and provide free access to its own journals and books.

Museum and Institute of Zoology, Polish

including literature on zoology, especially systematic and zoogeography, entomology and
omithology. Recently it has increased its coi-243,271 volumes and 5,378 archival items.

University of Copenhagen (The Natural History Museum of Bennark) (UCPH)
The museum holds an estimated 12 million specimens of animals, plants, books archives, fossilis, minerals, and other natural history related items. Part of the museum are three libraries, botanical, zoological and geological. The libraries hold more than 250,000 bibliographic onfities (books, journals, reprints). The museum hosts the GBIF and the Danish GBIF node.





NBGB is a 'complete' botanical garden, inte-grating a living collection ('Hortus'; 18,000 spe-cies in cultivation) and a large museum cies in cultivation) and a large museur (Herbarlum'; mont than 3 million plants line. fung). The library holds 50,000 monographs including 2,500 valuable historical books, 5,000 periodicals and 25,000 reprints. Historical literature on Central Africar florar was kept in NBGB, since 1990. Data repartation to partners both in Africa and Lätin America is a priority for NBGB. Drawings and colour paintings of flowering plants and fungi were digitised and linked to specimens kept in the BR herbariu NBGB is an institutional member of CETAF is active in the EC projects ENBI, EDIT and

BHL Newsletter # 1- August 2009 15

BHL

provider for GTI (Global Taxonomy Initiative) capacity building activities with developing



RMCA is a mutitdisciplinary institution with a special focus on Sub-Saharan Africa. The museum manages collections of about 10 milli on specimens of animals and \$50,000 wood specimens from 13,600 different botanical species. The RMCA maintains an extensive library on African biodiversity, including the top scientific journals, but also a unique collection of rare, old colonial publications. The institution has about 3 of a dischibus clipromethors. has about 1.2 km of Archives. Information or biodiversity is repatriated to African parte suitable training in taxonomy is also provided RMCA is an institutional member of TDWG an is involved in initiatives such as GBIF, ENBI, EDIT, CETAF and SYNTHESYS, It collaborates

ing countries. Royal Belgian Institute of Natural Sciences

(RBINS)
The RBINS houses a diverse and exceptionally rich collection, comprising about 37,000,000 specimens. The scientific library of the RBINS is the biggest documentary resource of natural ous European programmes related to blodiver history in Belgium. It offers a wast range of books (695,368 volumes) and has very special-books (695,368 volu

ised, often unique scientific magazines. Its cat-alogue is available online. RBINS has begun digitisation of the library catalogue and more than 185,000 titles are online.



Museum national d'histoire naturelle (MNHN



MNHN was, and still is, heavily involved in var

BHL Newsletter # 1- August 2009

BHL

and EuroCAT/Sp2000 Europa, SYNTHESYS, EDIT, MarBEF, EUMon and PESI. The central Library Department holds the world's third largest collection of literature, original draw-ings and manuscripts relating to natural histo-ry. The print collections include 20,000 periodical titles and 600,000 books. Digitisation plans are already on-going in full collaboration with

Consejo Superior de Investigaciones Cientificas (CSIC) CSIC is the largest National Research Institution in Spain. The participant institut Museo Nacional de Ciencias Naturales (MN houses the biggest natural history collectic library and archives in Spain. The relevant is Fauna Ibérica. MNCN is a founding member of CETAF, partner of SYNTHESYS, EDIT, LifeWatch and coordinates the Spanish GBIF node. The public library of MNCN contains more than 62,000 volumes and more than 6,400 Species 2000 (Sp2000) Species 2000 is a Netwo than 9,000 electronic journals.

The Museum houses specimens of extraordinary scientific and natural history value: XVI century herbaria, valuable XVIII century waxes, fossil elephant skeletons, brightly coloured butterflies, huge tourmaline crystals, Azlec artefacts, imposing wooden sculptures and the world's largest flower. A lot of ancient and rare ic intelligent tool.



books are also preserved in the Library (Biblioteca di Scienze).

Royal Botanic Garden Edinburgh (RBGE)
RBGE is an internationally renowned centre for botanical research and conservation work and holds one of the largest collections of living plant species in Europe, together with large collections of preserved plant and fungal material. It has one of the most important botanical libraries in the UK.

Species 2000 is a Network organisation which is creating an index of the world's known is creating an index of the world's known-organisms. The programme reached produc-tion scale as an E's scientific infrastructure under the FPS EuroCAT, Project, its Catalogue of Life is a global service (verwicestalogueoffite, org) recognised by the UN Convention on Biological Diversity, and presently comprises a synonymic species checklist of 1.1 million plants, animals, rung land micro-organisms, about 2.5 million names and a comprehensive taxonomic historychy is constituted exponents. taxonomic hierarchy. It contributes content and the taxonomic hierarchy used by the taxonom

BHL Newsletter # 1- August 2009 17

BHL

John Wiley & Sons limited (Wiley)

practitioners in scientific, technical, medical and scholarly fields. Through the 2007 acquisi-tion of Blackwell Publishing, Wiley has gained the Blackwell Synergy platform, home to over \$50 Blackwell journals. Also during 2007, the company completed an initiative to digitise its entire historical journal holdings, making 8.2 million pages of content, dating back to 1799, available on Wiley InterScience.



dedicated to inspiring curiosity, discovery and learning about the natural world through its The BHL is led from SIL.

Missouri Botanical Garden (MOBOT) The mission of MOBOT is to discover and share knowledge about plants and their envi-



Founded by Henry Shaw and opened to the public in 1859, the Garden is a National Histor public in 1859, the Garden is a National Historic Landmark and widely considered one of the top three botanical gardens in the world. MOBOT is a founding member of the BHL and is support-ing the development of the system's infrastruc-ture, application layers and interfaces.

cy and veterinary medicine. The library also serves the Finnish Museum of Natural History The library has digitised old Finnish forestry literature which is made available in the DVilkki open research archive. The library has printed collections of roughly 12,000 shelf meters.

projects during the last 5 years: Open Archives Forum (EU-IST Programme); reUSE (eContentplus project); Digitisation-on-Demand (eTEN

BHL Newsletter # 1- August 2009 18

The Biodiversity Heritage Library

The Biodiversity Heritage Library (BHL), the digitiza- for Scientific Data in a Highly Protectionist on's eContentPlus p Commission's eContentPlus program has recently funded the BHL-Europe project, with 28 institutions, to assemble the European language literature. In addition, a Memorandum Of Understanding with the Chinese Academy of Sciences will be signed soon for a Chinese BHL. Negotiations are being pursued with the Alties of Living Australia and other projects to join the BHL consortium. These projects will work together to share content, prostocols, services, and disibilat preservation practice.

Legacy Taxonomic Literature

the authors distinguish big science supported by governments and with norms and enforcement for open access with small science about which they wrote, There are few government-controlled, public domain data centers in this type of research. lic domain data centers in this type of research. The data are fixe disaggregated components of an inciplent network that is only as effective as th individual transactions that put it together. Openness and sharing are not longred, but they are not necessarily dominant, either. These valus must compete with strategic considerations of self-interest, secrecy, and the logic of mutually beneficial exchange. In small science, what occu is a delicate process of theoretization, in which data project to join the BHL consortium.

These projects will work together to share content, protocols, services, and digital preservation practiculars. These welcome developments are leading to a new model for a global BHL sufficient to meet the challenges of assembling, structuring, and preserving the published record of biodiversity as a shared heritage of all humanity. The BHL is becoming international. It is moving from a US/UK focused project to a global presence that mirrors the global nature of biodiversity research and related glieb-plines.

Prior to digitization, the resources housed within each BHL institution have existed in isolation, available only to those with physical assesses to the collections. These collections are of exceptional value because the dominating of systemic to tiology depends—more than any other science—upon highoric literature. Consequently, the relative science is a "Given Bernal" obstacle for the developing countries that are home to the majority of the world's biodiversity in recently the scenerics. In which collections the propose of the developing countries that are home to the majority of the world's biodiversity the recently the science as a "Given greater data" to obtain the propose of the developing countries that are home to the majority of the world's biodiversity the recently the science as a "Given greater data" to be a propose to the ecological crites and new web-enabled technolo-

gies. For example at the recent eBiosphere Conference held in London over 130 current

BHL Newsletter # 1- August 2009 19



BHL

projects showcased ranging from international compendia such as the Encyclopaedia of Life (EOL) and the Global Biodiversity Information (EOL) and the Global Blodiversity Information Facility (GBIP) so all blodiversity surveys in Algeria, analysis of species density in Malayaian forests, and phytoplankton carbon sequestration analysis were viewed by 500 key personnel engaged in blodiversity informatics. The over-whelming focus was on weaving together a seam-less web of blodiversity information in an effective way for scientists and researchers. A key compo-nent of this emerging network of content and sexway for sclentists and researchers. A key component of this emerging network of content and services has been the published literature of biodiversity, which until recently has been the prime method of recording and disseminating the results of research since the time of Linnaeus.

The partner libraries collectively hold a substantial part of the world's published knowledge on biological diversity. Yet, this wealth of knowledge is available only to those few who can gain direct access to these collections. This body of biodiversity knowledge, in its current form, is unavailable to a broad range of applications including: research, education, taxonomic study, blodiversity

The BHL is striving to establish a major corpus of dar of the world's published knowledge on biological diversity. Yet, this wealth of knowledge is variable only to those few who can gain direct access to these collections. This body of biodiversity the provided of the cific focus of the Biodiversity Heritage Library Project. These other projects will fail to capture



Open Access
The BHL is striving to establish a major corpus of digitized publications on the Web drawn from the

cous of the Biodiversity Heritage Library provide a substantial benefit to all researchers, including those living and working in the develop icant elements of legacy taxonomic literature. Ing world. BHL's open access and open source

BHL Newsletter # 1- August 2009 20

BHL

approach will push the frontiers of biodiversity

Complementing the BHL Portal (http://www.biodi Complementing the BHL Portal (http://www.blodi-versitylibrary.org/), the BHL initiative will release CiteBank, a related repository of scientific citations and community-vetted bibliographies with services linking to other biodiversity projects. CiteBank allows users to upload and share bibliographies containing material related to their specific interests and upload files associated with these bibliographies, including PDFs of the articles and links to

raphies, including PDFs of the articles and links to the books containing the articles within the BHL portal. As such, CiteBank is a crowd-sourced, user-dependant service. CiteBank also serves as an interface through which users can network and collaborate, forming groups related to specific interests and subjects. A full release of this component is planned for October 2009. Please review latest updates at the BHL Blog http://

(New York, NY)

- The Field Museum (Chicago, IL)

- Harvard University Botany Libraries
(Cambridge, IMA)

- Harvard University Botany Libraries
(Cambridge, IMA)

- Harvard University, Ernst Mayr, Library of the
Museum of Comparative Zoology (Carphridge, IMA)

- Marine Blootgleaf Laboratory (Woods Hole

- Oceanographic Institution (Woods Hole

- Natural Botanic Gurden of Beiglium

- Natural B

tions with the BHL)

· The University Library of the University of Illinois UIUC has agreed to participate in the BHL as a con-

BHL-Europe Membership

Angewandte Informationstechnik
Forschungsgeselischaft mbH (AIT)
ATOS Onglir integration
Freie Universität Berlin
Georg-August-Universität Göttingen Stiftung
Öffsellischen Rechts
Land Obericiaterreich
Naturnistorisches Blussum Wien
- Naturnistorisches Blussum Wien
- Hungarian Natural History Wünseum
- Museum and Institute of Zoology, Polish Academy
of Sciences

Chinese Academy of Science (to come soon).

BHL Newsletter # 1- August 2009 21



the Biodiversity Heritage Library:
The Academy of Natural Sciences of Philadelphia
The California Academy of Sciences (San



For nearly 200 years, The Academy of Natural Sciences of Philadelphia has built one of the finest natural history libraries in the word. The Library has grown from five books and two maps in 1812 to its present size of over 86,000 Printed titles (numbering over 200,000 volumes) and over 200,000 volumes) and over 200,000 manuscript collections include the Academy's archives as well as correspondence, photographs, journals, field notes, and original illustrations by and about American scientists. The manuscript collections include the Academy's archives as well as correspondence, photographs, journals, field notes, and original illustrations by and about American scientists. The Academy Listers, the Swell Sale Subservi Library, is notable in the American for fits hoddings of historial vicinity in the National Sales Subservi Library, is notable in the American for its hoddings of historial vicinity in the history of science, sociution, early edocopy, systematics, marine and freethwest biology, and geology, it was an early adopter of digitization as a method to make its hoddings widey accessible. It began to scan digital images from books and carchival materials and publish them on the web in service was the first the fi

1999. Two early projects were funded by the IMLS in the form of a Leadership Grant, and one by the

CALIFORNIA ACADYANY OF SCIENCES

Established in 1853, the California Academy of Sciences is the third oldest institution of its kind in the U.S. and the only one in the nation with a major research center, or one of the nation with a major research center, or one or of, all programs and exhibits at the Academy embrace its grams and extinoits at the Academy enorates its mission to explore, explain, and protect the natural world, focusing on the evolution of life, its diversity, and its sustainability. Scientific research is a key part of the Academy's mission and this work is supported by a collection of 20 million specimens, 60 research scientists, and a library with more than 230,000 volumes and 1200 current serial than 20,000 volumes and 1200 current serial titles. Examples of current blodwersly research include the work being done by Brian Fisher on the ent's of Madagasear, Jack Dumbacher on the birds of Papus New Cuinea. Peter Roopnarine or the evolution of communities through the fosal record, and Healy Hamilton on the effects of climate change on species distributions and conse

vation planning efforts.



BHL Newsletter # 1- August 2009 22

BHL

Digitization in the Czech Republic

scripts was burnt between the years 1992 and 1993 as a contribution to the UNESCO initiative 1993 as a contribution to the UNESCO initiative Memory of the World. The Czech National Program adopted the name Memoriae Mundi Series Bohemica and it was coordinated by The National Library of the Czech Republic.

The project was run in cooperation with a private company, Albertin is come Praha Ltd, (since 1995 known as AIP Bercoun Ltd.) which provided (and still considerable). known as AIP Seroun Ltd., which provided (and still provided) bechincial services, e. d. digitization of books and ensuring accessibility of the digital images, which were at that time still limited, on CO-ROMs. Albertina icome Praha Ltd. developed its own scanning device which fortunately has minimal effect on the scanned materials as they were almost all exclusively of high historical and

The first manuscripts scanned in extense were the Antiphonarium Sedlecense and the Chronicon





"The Webpage of "MS Viewer", the interface for display of digi-tized documents in Manuscriptorium. Digitized old print: Gart der Gesundheit, Strassburg, 1529."

Constantiniense in 1994 and 1995. Technological and description standards were developed during the following years, simultaneously with ongoing digitization of manuscripts. (By the year 2000, there were 30 felly scanned volumes on 48 CD-ROMS, available in the situdy room of The National Library). The standards applied by The National Library and AIP Beroun Ltd. were those recommended by the organization UNESCO to the Hemory of the World contituents in 1999 and six years later. The National Library of the Czech Republic was awarded the UNESCO Jiki Prize list Korns. In the year 2000, The Ministry of Culture of the Czech Republic began a subprogram within the framework of the grant program, Public Information Service in Libraries (VISK 6), to encourage digitization in as many institutions as possible, including libraries, magenine, galleries and other similar establishments. The grant program WISK 6 still contitues on an annual basis covering 2% of digitization expenses; 30% are Constantiniense in 1994 and 1995. Technological

covering 70% of digitization expenses; 30% are covered by the financial resources of each institu

...The Webpage of JMS Viewer", the interface for display of deji-ted documents in Researchieux Digitated medieval manu-script sized. Occurrence to Plance-spring to the Color, the Color,

BHL Newsletter # 1- August 2009 23

BHL



as metalibrary and making accessible digital images created by the other institu-tions via the Manus-criptorium search mask and display interface which and display interface which is optimized for contributors (description in the vernacular language of the contributing institution, different character set etc.). The image data may be stored in the home server of Manuscriptorium but if the hTML address/path to their actual storage is defined in the document metadata

Jionepage of the project Kramerius.*

endangered by the acidity of the paper. The initiative was supported by the new subprogram of Public Information Services in Libraries, VS.7, intended for digitzation of those documents principal for the program of Public Information Services in Libraries, VS.7, intended for digitzation of those documents principal for the program of Public Information Services in Libraries began three years later; 100 mole measurements principal for the program in the progra Ampaco), In a few case, the home institution or library has the necessary digitation equipment (The Library of The Czech Academy of Sciences, The National Library of the Czech Republic). The scanned images are usually made accessible via web interface adopted, or tailor-made, for each institution. The XML metadata description formst MaSTER
Manuscriptorium was launched on December 1st
2007, represented by the project EMRICH which
runs within the framework of the European digitazation initiative eContentPlus. It aims to make
Manuscriptorium open to other domestic, as well
as foreign, digital libraries and with digitzation

(http://archiv.cbvk.cz/kramerius/Welcome.

BHL Newsletter # 1- August 2009 24

BHL





"Medieval manuscript Petri Rigae Aurora seu Biblia versificata. 1200-1250, digitized by AIP Beroun, accessible on the webpage of The Scientific Library Olomouc"

maps from the collections of The Scientific Library Olomouc are accessible via the library's own homepage (http://mapy. vkol.cz/). The same library pro-vides access via its homepage vides access via its homepage to 83 digitized manuscripts and incunabulas and 7 old prints from its collections (http://dig. vkol.cz/). Extremely interesting is the recently launched search and display interface providing access to the digitized maps of The Moravian Library, in particular for its sophisticated search system (http://timemap

historical book collections, pri-ortizing medieval manuscripts, incunabulas and old prints. However, this focus of atten-tion changed comparatively quickly, and happily, turned to more recent books which are, nevertheless, in many respects more recent seven in many respects more endangered by decay due to the fregility of the acid paper. As it was shown, the most important digitization projects in the Casef, Republic are Manuscriptorium for the historical collections and historical collections and Kramerius for the more recent ones. Nonetheless, the other digitized collections, displayed on the home pages of particu-lar libraries, should not be omitted.

BHL Newsletter # 1- August 2009

BHL

BHL Digitisation at the Natural History Following the scanning, a Quality Assurance Museum, London.

The Natural History Museum, London (NHML) has been involved in BHL since day one. Our involvement with the planning led to us being lasked with the creation of a Serials Mashup, designed to anafolive the scanning responsibilities amongst the participating institutions. This is still running is stored on the IA servers and public access motody, although hopefully will be greatly enhanced thanks to the BHL Europe project.



have been using a single Scribe coaming which is leased from the Internet Archive, the BML is carning parties. This is a manually operated machine, comprising a cradle operated by a foot people machine, comprising a cradle operated by a foot people and who mounted Canon camers. The first step is to retrieve the children energy associated with the litem. This is a chieved using 72,850, The book is then econned from cover to cover (two with the Rest. Into Scott (two cataloguing Agrahum Volume) cataloguing Agrahum Volume)

process is undertaken which is based upon ANSI z1.4 1993 Table 1, General Level 2. At this stage,

There is a whole other process whereby the con-tent gets ingested to the BHL's website, but that will have to be the subject of another article.

Returning to *6ur* local processes at the NHML, there is a let of preparation before the book ends up on a folley ready to be scanned by the IA. First, we have to decide, what we want to scan. This was, heavily influenced by copyright issues in the early dept. M. Copyright lepislation is quite restrictive, and we underwent is rak management process to conclude what date would be a sensible guider fledror which it was safe to digitise. The conclusion was gre-1880, so the majority of our materials are currently from that period. The other decision was to start with serials. The reason for this is that in many of our catalogues, the energy this is that in many of our catalogues, the energy is this is that many of our catalogues, the energy
the spended in de-duplicating serial titles was well
twonth it as de-duplicating serial titles was well
twonth it as de-duplicating net title could reveal
ted
many shelves of volumes of material which could
be scanned, dus for the common practice of not
cataloguing serials at Volume, but at title level.

BHL Newsletter # 1- August 2009 26

BHL

Next, the books are prepared for scanning using and is copyright clear. Then, a packing list is made. A packing list is a list of books to be sup-

The trolley is then delivered to the IA. Using the our in-house Scanning Management System
seems as the second of the seems of the second of the seems are seems of the seems

piled on one trolley. We aim to supply between 40
and 50 volumes per trolley. When we are building
a packing list, we take the opportunity to not only
https://bhl.wikispaces.com/NHM+Photos







BHL Newsletter # 1- August 2009 27



Newsletter BHL-Europe is a communication tool for the project BHL-Europe. It is issued 4 times a year. It is issued by BHL-Europe in the National Museum, Prague, Václavské nám. 68, 115 79 Praha 1, Czech Republic.

For address changes contact Kamill Zágoršek (kamill_zagorsek@nm.cz), National Museum, Prague, Václavské nám. 68, 115 79 Praha 1, Czech Republic.

BHL Newsletter # 1- August 2009 28





















Logo design and Manual for BHL Europe Pavel Šťastný © 2009 www.plecharna.cz