

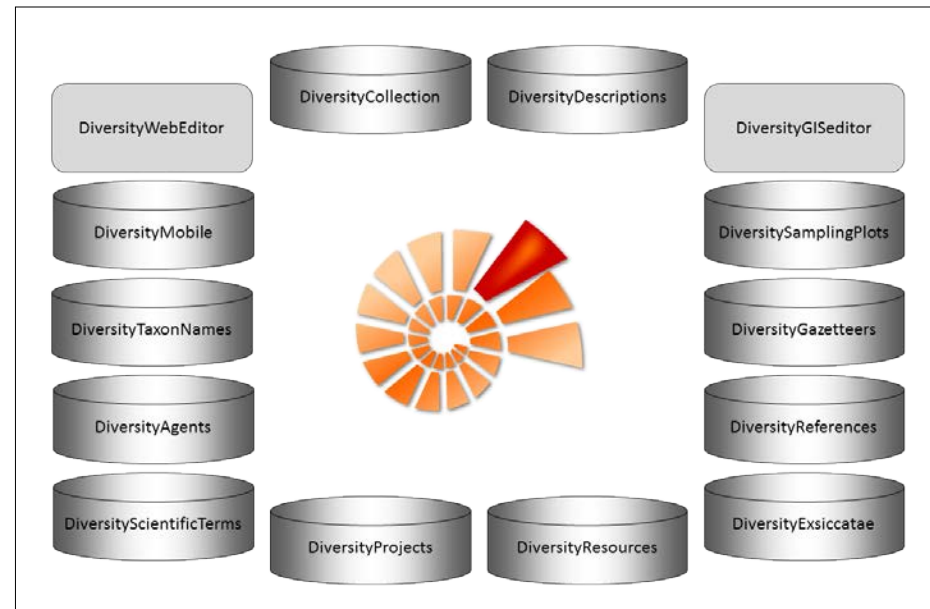
Diversity Workbench

Einführung

Dagmar Triebel

DWB – System aus SQL-Datenbanken

- Für Datenzentren / Sammlungen, aber auch für Einzelanwender und große Forschungsprojekte
- Direkte Interoperabilität von 12 Datenbank-Komponenten
- Datenbanken nach Datendomänen
- Lokale Installation möglich, wie auch Client-Server Netzwerke
- Diversitätsdatensätze aus allen organismischen Großgruppen
.... Pflanzen, Algen, Pilze, Wirbeltiere, Insekten, andere Wirbellose, Fossilien
- Monitoringdaten, ökologische und molekulare Daten



DWB – Open Source Code Repositorien

- z. Zt. 5 Entwickler: SNSB + UBT
- Quellcode in 2 Code-Repositorien
- Quellcode-Zeilen >1.3 Mill.
(in 2.835 Quellcode-Dateien)
(*Status 10.2015)
- GPL 2 Lizenz

The image shows two overlapping browser windows. The top window displays a Subversion repository for 'DiversityWorkbench: Developer Tools - Subversion' at 'svn.snsb.info/repos/Diversit...'. The repository structure is listed as follows:

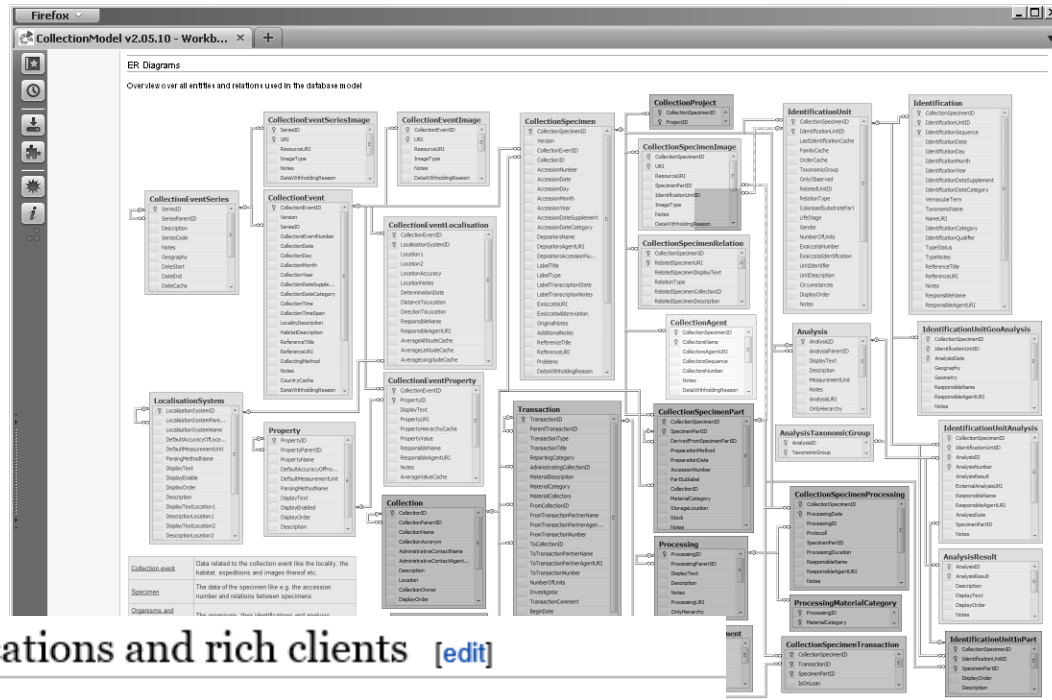
- DiversityWorkbench — Revision 2268
- /trunk
 - [Parent Directory]
 - SRECYCLE.BIN/
 - DiversityAgents/
 - DiversityCollection/
 - DiversityDescriptions/
 - DiversityExsiccatae/
 - DiversityGazetteer/
 - DiversityImageInspector/
 - DiversityMaintenance/
 - DiversityMobile/
 - DiversityProjects/
 - DiversityReferences/
 - DiversitySamplingPlots/
 - DiversityScientificTerms/
 - DiversitySynchronization/
 - DiversityTaxonNames/
 - DiversityWorkbench/
 - DiversityWorkbench4/
 - HelpProjects/
 - HelpProvider/
 - XMLParser/
 - DiversityWorkbench.sln

The bottom window shows the GitHub organization page for 'Staatliche Naturwissenschaftliche Sammlungen Bayerns'. It lists several repositories:

- DWB-Contrib** (XSLT, 0 stars, 0 forks): DWB Contrib Schemes and files as contribution for DWB clients. e. g., to organise import, export and label print. Updated 12 days ago.
- DiversityMobile2** (JavaScript, 0 stars, 0 forks): Prototype of a cross-platform application using the Diversity REST API. Updated on 17 Dec 2015.
- DiversityMobile** (C#, 2 stars, 2 forks): DiversityMobile Client Application for Windows Phone 7/8 Phones. Updated on 4 Sep 2015.
- DiversityService** (C#, 0 stars, 1 fork): SOAP based API for DiversityCollection. Currently used by DiversityMobile client application. Updated on 27 Aug 2015.
- DiversityAPI** (C#, 0 stars, 1 fork): REST Service API for DiversityCollection. To be used by DiversityMobile client application. Updated on 20 Aug 2014.

DWB – Dokumentation online

- www.diversityworkbench.net
- Technische Dokumentation
- Download von Software
- ER Diagramme
- Mailingliste zur Info über neue Software-Versionen



Technical documentation for the core applications and rich clients [\[edit\]](#)

Name of the database framework	Diversity Workbench (DWB)
DWB contact persons	T. Weibulat, D. Triebel at the SNSB IT Center
Operating system server	MS Windows Server 2008 R2, 2012 R2
Database system	MS SQL-Server 2008 R2 to MS SQL-Server 2014
Clients	C# desktop applications (local clients) (and web APIs for various projects)
Operating system local clients	MS Windows XP (not recommended), MS Windows 7 to MS Windows 10

DWB-Anwender mit DB-Installationen (soweit bekannt)

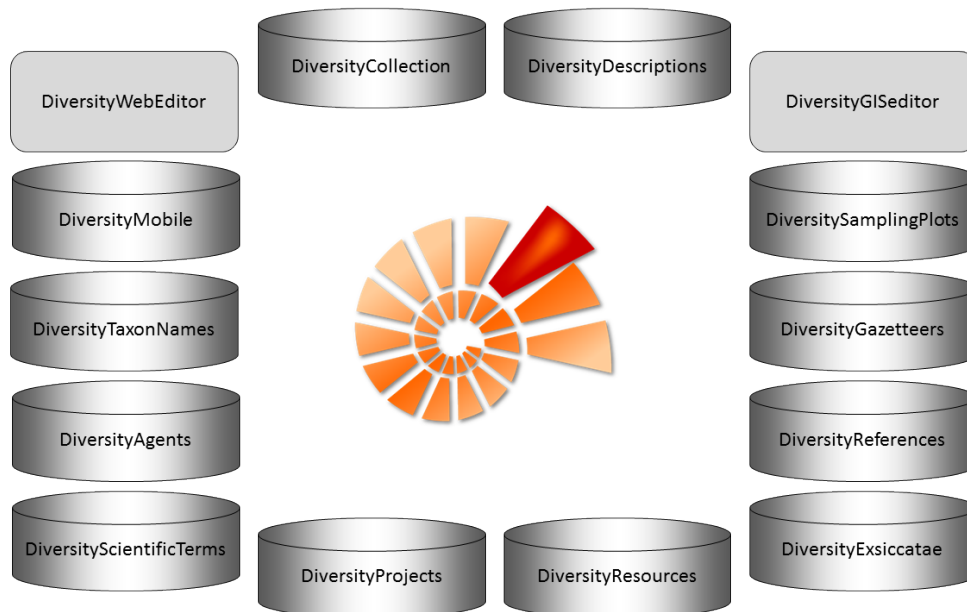
- Installationen an den SNSB inkl. ZSM (diverse VM und Instanzen; inkl. Datenbank(DB)-Hosting für rund 20 Partnerorganisationen; v.a. Unis)
- Installationen am ZFMK
- Installation am SMNK
- Installation am SMNS

z. Zt. 150 Anwender

z. Zt. 40 Anwender

z. Zt. 15 Anwender

z. Zt. 15 Anwender



DFG Resources und GFBio: DWB empfohlen

Detailseite

→ Zurück

Diversity Workbench – Software components for building and accessing biodiversity information (DWB)

Das Projekt Diversity Workbench (=DWB) wurde in 2000 gestartet und wird kontinuierlich fortgesetzt. Basierend auf dem DWB Konzept werden SQL-Datenbanken und Datenbankschnittstellen entwickelt, um sämtliche Typen von georeferenzierten quantitativen und qualitativen Beobachtungs-, Sammlungs- und Messdaten aus den Bereichen Bio- und Geodiversitätsforschung und Ökologie zu verwalten. Dazu wird ein modularisiertes Komponenten-Framework zur Datengenerierung, -erhaltung und -prozessierung aufgebaut (12 eigenständige, interoperable Datenbanken, jeweils mit Rich-Clients zum Datenmanagement sowie browserbasierten Anwender-Schnittstellen, s.u. www.diversityworkbench.net/Portal/Diversity_Workbench_Performance und Apps für Smartphones). Der DWB Namensraum umfasst rund 2.000 Elemente. ER-Modelle zu den einzelnen Entwicklungen werden in regelmäßigen Abständen publiziert. Die Software steht als open source-Entwicklung zum download bereit. Neben den unten genannten Trägern agiert das Julius Kühn-Institut Berlin http://www.jki.bund.de/nn_813794/ als weiterer Partner.

Adresse: Menzinger Straße 67
80638 München
Bayern
Deutschland

➔ Zur Webseite

Träger

Staatliche Naturwissenschaftliche Sammlungen Bayerns, SNSB
IT-Zentrum
Menzinger Straße 67
80638 München
Bayern
Deutschland
➔ <http://www.snsb.info/>

Universität Bayreuth, DNA-Analytik und Ökoinformatik
Geb. NW1, Universitätsstraße 30
95447 Bayreuth
Bayern
Deutschland
➔ <http://www.daneco.uni-bayreuth.de>

Universität Bayreuth, Lehrstuhl für Angewandte Informatik IV
Datenbanken und Informationssysteme
Universitätsstraße 30
95447 Bayreuth
Bayern
Deutschland

Data Submission

Welcome to the GFBio data submission system. We highly appreciate you archiving and publishing your data with GFBio. We accept any biological and related data.

We provide long-term preservation of primary research data in one of our associated [data centers](#). The entire data submission process will be assisted by GFBio and if required by direct contact with data curators. The submitted data are preserved and subject of curation processes under involvement of data producers. The whole publication pipeline can be controlled by the data producers. They may also specify embargo periods prohibiting public access to the data.

The data are published in accepted machine-readable formats and are fully citable. We guarantee an open access to all published data under clearly specified licenses over [GFBio's search interface](#).

GFBio supports two ways of data import:

- upload from GFBio associated project data management platforms (e.g. [Diversity Workbench](#) or [Bexis](#))
- upload of data from individual projects directly via this portal

All imported data will be reviewed concerning data quality and data description. If the verification is positive, the data will be sent to an appropriate data center and will become accessible via GFBio's portal search interface unless requested otherwise by the data producer.



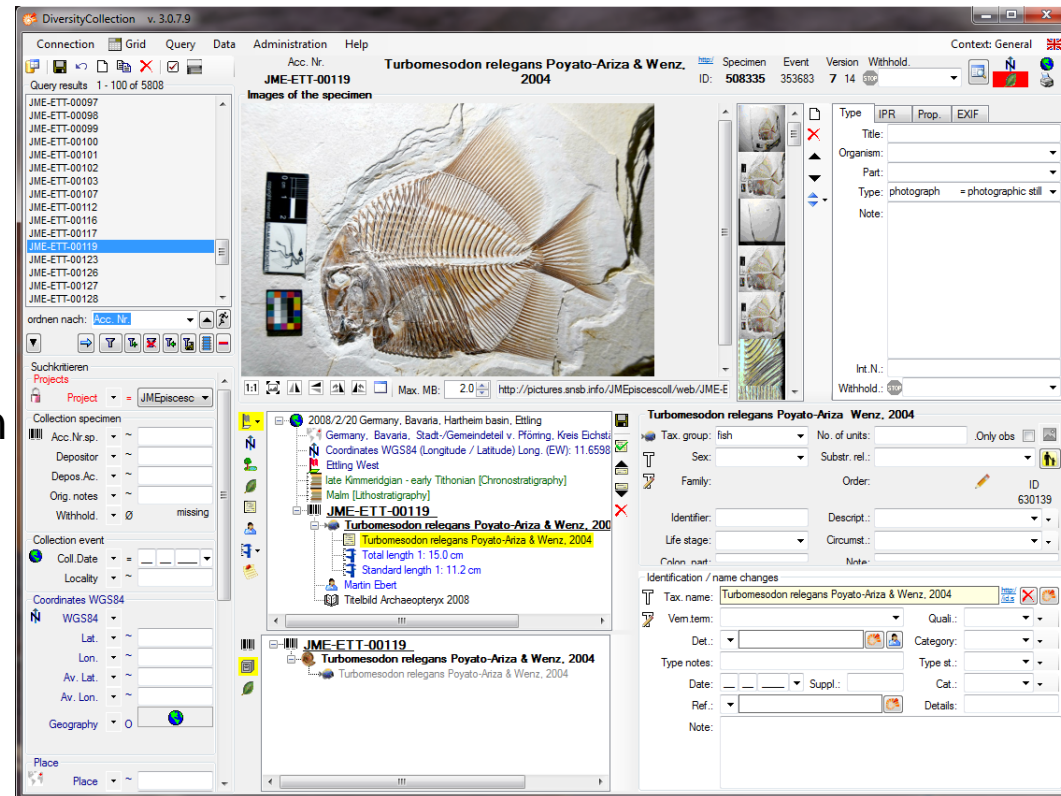
Diversity Workbench – Schnittstellen zum Datenmanagement

The screenshot displays the Diversity Workbench software interface, which is used for managing biological specimen data and taxonomic information. The interface is divided into several main windows:

- DiversityCollection v.3.0.1.6:** Shows specimen details for *Ceratotherium simum* (Burchell, 1817). It includes a list of displayed fields (e.g., Collection event, Date, Location) and a table of specimen records with columns for Accession number, Collection year, Country, and Locality. A specimen image is visible in the top right.
- DiversityScientificTerms v.3.0.0.0:** A window for managing scientific terms. It features a tree view of terms (e.g., Induan, Indusium, Jura) and a list of items (101-200 of 338). It includes fields for Term, Description, Broader term, and Ranking term.
- DiversityAgents v.3.0.0.3:** A window for managing agents. It shows a list of agents (e.g., Hendrichs, M., Hendrichs, S.J.) and a detailed view of an agent (Hertel, Hannes, Prof. Dr.) with fields for Title, Given name, Surname, and Address.
- DiversityTaxonNames Database: DiversityTaxonNames-Fungi v.3.0.1.5:** A window for managing taxonomic names. It shows a list of taxon names (e.g., *Biatora plicata* Fr., *Biatora sylvana* Korb.) and a detailed view of *Biatora sylvana* Korb. with fields for Taxonomic name, Rank, Nomenclature, and Taxonomic reference / Protologue. It also includes a hierarchy view and a list of synonyms.

DiversityCollection

- Management von Beobachtungs- und Sammlungsdaten
 - Ereignisse, Expeditionen
 - Beobachtungs- und Sammlungsobjekte
 - Experimente und Analysen
 - Administration von Objekten (Transfer, Inventarisierung)
 - Präparation und Lagerung von Objekten
 - Verwaltung von Multimedia-objekten
- Druckoptionen: Reporte, Etiketten
- Erzeugung von Verbreitungskarten



Portale mit DWB Daten, dynamischer Datenfluss

Access provided by National Botany Collection Munich

BiNHum Portal
 The biodiversity portal of the Humboldt-Ring project, for querying the biodiversity data of different institutions.

Results filtered by:
 Institution: M
 Country: Afghanistan
 Remove all filters.

Scientific name	Ge
Acantholimon acanthobryum	Acu
Aspiclia	Asp
Acantholimon atrofusum	Acu
Ammannia auriculata	Am
Bryonia aspera	Brj
Bulbinella bulbosa	Bul
Alhagi camelorum	Alh
Acantholimon catenatum	Acu
Acantholimon cephalotes	Acu
Ceroidospora	Cer

Bayernflora
 www.bayernflora.de/web/

FLORA VON BAYERN

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 Datenerfassung
 Datenbereitstellung
 Taxonbezogene Daten
 Basisfachdaten
 AG Flora von Bayern
 Dokumente
 Geschichte
 Intern
 Links
 Archiv
 Hilfe

Herzlich Willkommen im Wiki zur Flora von Bayern!

- Die Initiative „Flora von Bayern“ existiert seit mehr als 100 Jahren.
- Ziel ist es, alle Gefäßpflanzen einschließlich der natürlich vorkommenden, neu eingebürgerten, invasiven, aber auch der ausgestorbenen Arten zu beschreiben.
- Als naturräumlich reich ausgestattetes größtes Flächenland in Deutschland trägt Bayern besondere Verantwortung für die Erforschung und Erhaltung von wild wachsenden Pflanzenarten.
- Mehr als 80% der in Deutschland vorkommenden Pflanzen sind in Bayern zu finden.
- Die floristische Initiative erfasst und dokumentiert den Zustand der Flora in Bayern über Zeit und Raum. Die dadurch verfügbaren Informationen sind von enormer Bedeutung für Fragen des Artenschutzes in ganz Deutschland.

Datenmanagement

Matrixdaten → DiversityDescriptions

Matrix

Alternative import formats:
DELTA and SDD

Triples:

- > item-descriptor-state
- > item-character-state
- > entity-attribute-value
- > element-property-value

Triple

I_ID	Item	D_ID	Descriptor	V_ID	Value

I_ID	D_ID	V_ID

DiversityDescriptions, Database: DiversityDescriptions3_0_6_Erythroneura v. 3.0.0.7

Connection Edit Query Data Administration Help

Erythroneura aclys McAtee Project: Erythroneura Language: en

Suchergebnisse 1 - 54

Suchkriterien: Title ~, Project Erythroneura

Suchkriterien: Description, Title, Project, Descriptor, Categorical, Quantitati, Text, Data status, Scope, Taxon, Geography, Specimen, Observati, Reference, Other

Description: Erythroneura aclys McAtee DB key: 868

ID	Type	Descriptor name
1	categorical	Ground color of dorsum
2	categorical	Coloration of vertex
3	categorical	Coloration of vertex midline
4	categorical	Anteclypeus coloration
5	categorical	Pronotum color pattern
6	categorical	Color pattern of mesonotum
7	categorical	Coloration of thoracic venter
8	categorical	Presence of crossbands on forewings
9	categorical	Presence of oblique pattern on forewings
10	categorical	Presence of a brown spot in forewing inner apical cell
11	categorical	Presence of distal spot in forewing apical cell II
12	categorical	Clavus color pattern
13	categorical	Length of forewing outer apical cell
14	categorical	Length of 2S abdominal apodemes (Males)
15	categorical	Length of aedeagus preatrium (Males)
16	categorical	Dorsal apodeme of aedeagus in ventral view (Males)
17	categorical	Presence of teeth in distal part of aedeagal shaft (Males)
18	categorical	Width of aedeagal shaft in lateral view (Males)
19	categorical	Position and length of aedeagus ventral processes (Males)
20	categorical	Position and length of aedeagus distal processes (Males)
21	categorical	Shape of pygofer dorsal appendages (Males)
22	categorical	Shape of pygofer lobe (Males)
23	categorical	Apex of aedeagus in ventral view (Males)
24	categorical	Apical vestiture of aedeagus (Males)

x	ID	State	Modifier	Frequency	Notes
<input type="checkbox"/>	1	entirely pale			
<input type="checkbox"/>	2	pale, with dark late...			
<input checked="" type="checkbox"/>	3	entirely dark			
<input type="checkbox"/>	4	pale, with dark bro...			

Media view

http://ctap.inhs.uiuc.edu/dmitriev/images/aclys1.gif

▼ Edit description

Terminologien, Referenzen, Vokabularien.....

DiversityAgents

Verwaltung von Personen und Organisationen

DiversityReferences

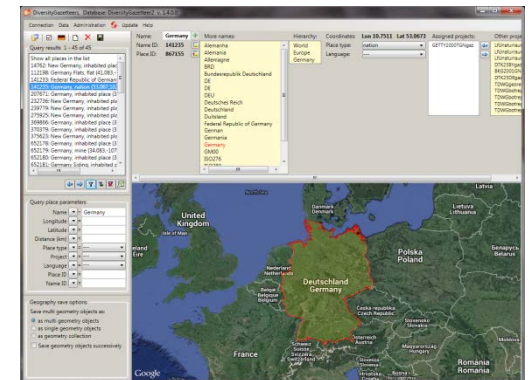
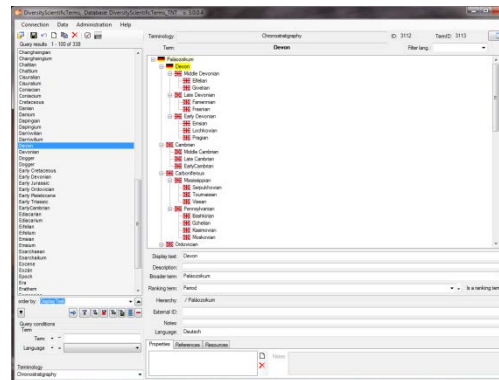
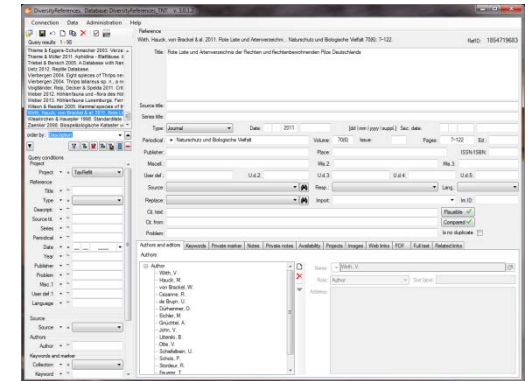
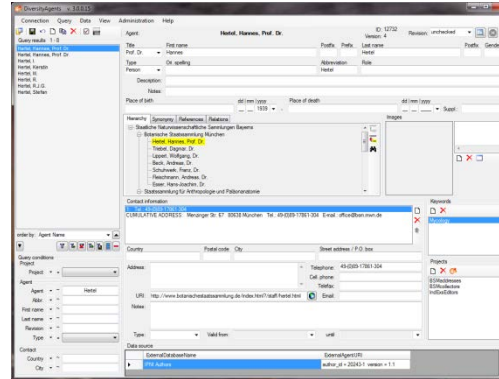
Verwaltung von Literaturreferenzen und Literaturdokumenten

DiversityScientificTerms

Management von Ontologien, Terminologien

DiversityGazetteers

Verwaltung geographischer Namensbestände, oft mit GIS Information und Hierarchien



DiversityTaxonNames

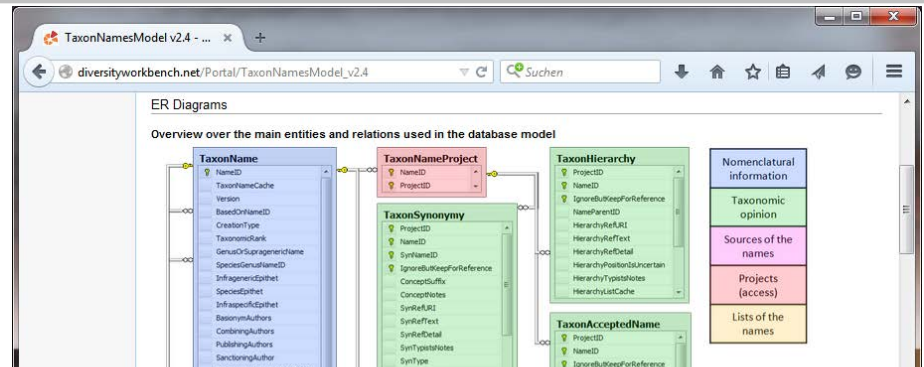
- Management von taxonomischen Namen, verknüpfter Information
- Management von Synonymen, akzeptierten Namen, Klassifikationen, Typifizierung and Volksnamen
- Erstellung von Taxonreferenzlisten, Checklisten mit z. B. geographischen, naturräumlichen oder Naturschutzkategorien

The screenshot displays the DiversityTaxonNames software interface, version 3.0.1.5. The main window shows the taxonomic details for *Biatora sylvana* Körb. The interface is divided into several panels:

- Left Panel:** A list of taxonomic items (101-152 of 152) with a search and filter interface. The current item is *Biatora sylvana*.
- Top Panel:** Taxonomic name details including Genus (*Biatora*), Species epithet (*sylvana*), Author (Körb.), and Rank (species).
- Center Panel:** Nomenclature and Protologue information, including the volume (200) and page (1855) of the original publication.
- Right Panel:** Typification and Geographical information, showing the reference (New reference 1) and the type (isotype M-0061230).
- Bottom Panel:** Synonymy overview and External data sources, listing various synonyms and their references, such as *Lecania hyalina* (Fr.) R. Sant. and *Lecidea globulosa* Flörke.

DWB – DiversityTaxonNames

- ER-Modell publiziert
- Eine Reihe Installationen am SNSB IT-Zentrum: intern und auf TNT Server „DWB Cloud“ stellen Inhalte bereit
- Verschiedene maschinen- und menschenlesbare Webschnittstellen greifen darauf zu



Connection Query Lists References Data Help
Items 101 - 152 of 152

Taxon: *Biatora sylvana* Korb. ID: 1036334 Vers.: 3 Ignore: Withhold reason: Revision:

Taxonomic name
Genus/supragen. Species epithet Alt.: Bas. auth. Comb. auth. Publ. auth. Sanct.

Rank: species Ori. orthogr.: Ano./Teleomorph.: Notes: Is hybrid

Nomenclature
Code: Status: Creation type: Comment:

Taxonomic reference / Protologue
Syst. Lich. Germ. Volume Issue Pages Details D. M. Y. of P. Suppl.

Use ref.: on P.:
Protol.:
Hierarchy
Sup. tax.: *Biatora* Fr. Uncert. Ignore

Ref.:
Acomycota Caval.-Sm.
Pezizomycotina O. E. Erikss. & Winka
Lecanoromycetes
Lecanoromycetidae P. M. Kirk, P. F. Cannon, J. C. David &
Lecanorales Nannf.
Ramalinaceae C. Agardh
G *Biatora* Fr.
S *Biatora sylvana* Korb.

Typification
Reference: New reference 1
Typification: isotype (M-0061230) Details:
Substrate: Locality:
Sp. notes: M-0061230 Notes:

Synonymy Taxon lists Specimens
Name is a heterotypic synonym
Based on: *Biatora sylvana* Korb. Ignore Uncert

Concept suffix: heteroty heteroty
Reference: Detail
Typist notes: according to HH Database inserted under *Catillaria globulosa* following Printzen 1995

Synonymy overview External data sources
Lecania hyalina (Fr.) R. Sant. in Santesson, Moberg, Nordén, Tansberg & Vitikainen, Lichen-Femina and Lichenicolous Fungi of Fennoscandia: 145 (2004)
= *Biatora hyalina* Fr., Nov. Sched. Critic. Lich.: 38 (1826)
= *Lecidea globulosa* Flörke, Deutschl. Flecht. 10: 1 (1821)
= *Biatora globulosa* (Flörke) Fr., Summa veg. Scand.: 1: 112 (1846)
= *Catillaria globulosa* (Flörke) Th. Fr., Lich. Scand. (Uppsala) 1: 575 (1874)
= *Bacidia globulosa* (Flörke) Hafellner & V. Wirth, Die Flechten Baden-Württembergs. Verbreitungsatlas (Stuttgart): 511 (1987)
= *Lecania globulosa* (Flörke) van den Boom & Sérus, Lejeunia, n. s. 162: 34 (1999); nom. illeg.
= *Biatora sylvana* Korb., Syst. Lich. Germ.: 200 (1855)

Webdienste – DiversityTaxonNames



Regionalised and Domain-specific Taxon Lists

The DWB REST Webservice for Taxon Lists is part of a Diversity Workbench (DWB) services network. It is delivering basic information on taxon names in use, synonyms, classification and German vernacular names of a number of groups of animals, fungi and plants.

The current focus is on domain-specific lists (checklists, taxon reference lists, red lists) from Germany under active curation by experts on taxonomy or floristics and faunistics. Each regionalised and domain-specific taxon list has its own history and objectives, is managed completely separately and has its own hierarchical classification. The DiversityTaxonNames (DTN) data resources accessed by the REST API may include additional taxon-related data useful, e.g., for regional nature conservation agencies and environmental projects. This information might be mobilised in a next step.

For more information please refer to [DTN_Taxon_Lists_Services](#)


Regionalisierte und domän-spezifische Taxonlisten

Der DWB REST Webservice für Taxon Listen ist Teil eines Netzwerkes aus Diversity Workbench (DWB) Diensten. Er liefert Daten zu anerkannten Taxonnamen, Synonymen, Klassifikationen und deutsche Volksnamen für eine Anzahl von Tier-, Pilz- und Pflanzengruppen.

DTN taxon lists - Fungi and Lichens, Fungal-like organisms	List code	Taxonomic or biotic group	Region	Taxon names below genus level (number)	Synonyms (number); Higher classification above subgenus/ genus level (+/-)	Vernacular names - DE (number)	List curator(s)	Organisation(s) and for project(s) supporting curation activities	Publications
About "Taxon list of Pisces and Cyclostoma from Germany compiled in the context of the GBOL project"	TaxRef_GBOL_Pisces_DE (927)	Pisces et Cyclostomata	Germany	118	-; +	-	Dr. Matthias Geiger	ZFMK; GBOL	Kottelat & Freyhof (2007)
About "Taxon list of Reptilia from Germany compiled in the context of the GBOL project"	TaxRef_GBOL_Reptilia_DE (925)	Reptilia	Germany	16	-; +	-	Dr. Dennis Rödder	ZFMK; GBOL	Uetz (2012)

DTN taxon lists - Fungi and Lichens, Fungal-like organisms

List title	List code	Taxonomic or biotic group	Region	Taxon names below genus level (number)	Synonyms (number); Higher classification above subgenus/ genus level (+/-)	Vernacular names - DE (number)	List curator(s)	Organisation(s) and for project(s) supporting curation activities	Publications
About "Taxon list of fungi and fungal-like organisms from Germany compiled by the DGM"	TaxRef_DGM_Fungi_DE (1140)	Fungi (including lichens, downy mildews and myxomycetes)	Germany	29.580	11.766; +	3.664	Frank Dämmrich	DGM	Index Fungorum online; Kirk et al. (2008); MycoBank online
Taxon list of Pucciniales from Germany compiled in the context of the GBOL project	TaxRef_GBOL_Pucciniales_DE	Pucciniales	Germany				Dr. Markus Scholler	SMNK; GBOL	Kirk et al. (2008); Scholler et al. (2011)
Taxon list of lichenicolous fungi from Germany compiled in the context of the LIAS	TaxRef_LIAS_LichFungi_DE	Lichen-associated fungi	Germany	826		4	Wolfgang von Brackel, Dr. Dagmar Triebel, Dr. Konstanze Bensch	SNSB-BSM; LIAS	With et al. 2011; LIASnames


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Taxon list of fungi and fungal-like ...

Checklist dataset published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

17.410 Species
32.679 Taxa

View species

Information
Stats

Summary

FULL TITLE
Taxon list of fungi and fungal-like organisms from Germany compiled by the DGM

DESCRIPTION
The DTN Taxon lists services concept is described under http://www.diversitymobile.net/wiki/DTN_Taxon_Lists_Services. The taxon lists are offered via several open and freely accessible services with a dynamic data flow involving DTN data bases DTN Software and DTN Information model.

ADDITIONAL INFORMATION
http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_fungi_and_fungal-like_organisms_from_Germany_compiled_by_the_DGM%22

LANGUAGE OF METADATA
ENGLISH

DOI [doi:10.15468/gtmjw](https://doi.org/10.15468/gtmjw)

PUBLISHED BY
Staatliche Naturwissenschaftliche Sammlungen Bayerns

REGISTRATION DATE
23.03.2016

SERVED BY
DiversityTaxonNames Server

LINKS
· [Dataset homepage](#)

EXTERNAL DATA
· [Darwin Core Archive](#)

METADATA DOCUMENTS
· [GBIF annotated version \(EML\)](#)

Browse Taxonomy

Portale – DiversityTaxonNames

The screenshot shows the Liasnames website interface. The browser address bar displays "liasnames.lias.net". The page header includes "A Database with Names of Lichens, Lichenicolous Fungi and Non-Lichenized Ascomycetes" and navigation links for "About" and "Cooperating Websites". The main content area is titled "Search Result" and displays the following information:

- Entered Name:** *Lecanora albescens* (Hoffm.) Branth & Rostr.
- Name ID:** 1009252
- Accepted Name:** *Lecanora albescens*
- Synonyms:**
 - Psora albescens* Hoffm.
 - Placodium albescens* (Hoffm.) Branth & Rostr.
 - Lecanora galactina* (Hoffm.) Branth & Rostr.
 - Lecanora sommerfeldii* (Hoffm.) Branth & Rostr.
 - Placodium albescens* (Hoffm.) Branth & Rostr.
- Classification:** Ascomycota Caval.-Sm. Pezizomycotina O. E. Lecanoromycetes O. Lecanoromycetida Lecanorales Nann. Lecanoraceae M. Lecanora Ach. Lecanora alb.

The search interface on the left includes a "Name" field with "Lecano" entered, a "Submit" button, and a "Classification" section with a "Browse" button. The "Cooperating Websites" list includes Lias, Lias light, Lias checklists, and Lias glossary.

The screenshot shows the Melastomataceae-Net website interface. The browser address bar displays "www.melastomataceae.net/MELnames/MELnames_Details.jsp?NameID=385435". The page header includes "About" and "Cooperating Websites" links. The main content area is titled "MEL names" and displays the following information:

- Entered Name:** *Miconia cordifolia* Alain
- Name ID:** 385435
- Accepted Name:** *Miconia javorkaana* Borhidi, Acta Bot. Acad. Sci. Hung. 29: 187 (1983)
- Synonyms:**
 - Graffenrieda cordifolia* Alain, Contr. Ocas. Mus. Hist. Nat. Colegio "De La Salle" 14: 1 (1955)
 - Miconia cordifolia* (Alain) Borhidi, Abstracta Bot. Univ. Budapest 3: 32 (1977), non *Miconia cordifolia* Wurdack; nom. illeg.
- Classification:** Melastomataceae Miconia Ruiz & Pav. Miconia sect. Amblyarrhena (Naudin) Triana ex Hook.f. Miconia cordifolia (Alain) Borhidi; nom. illeg.

The search interface on the left includes a "Name" field with "MEL" entered, a "Submit" button, and a "Classification" section with a "Browse" button. The "Cooperating Websites" list includes MELNET, MEL names, MEL occurrences, Partners & Institutions, Links, and Contact.

LIAS GSD – Diversity Taxon Names

Catalogue of Life: LIAS

www.catalogueoflife.org/col/details/database/id/79

Suchen


Species 2000
Catalogue of Life: 28th April 2016
indexing the world's known species

ITIS

English French Spanish Chinese Russian Portuguese Dutch German Polish Lithuanian Thai Vietnamese

Durchsuchen
Suchen
Information

Details zur Datenbank : A Global Information System for Lichenized and Non-Lichenized Ascomycetes



Datenbank Qualitätskriterien

Umfang: Global

Vollständigkeit: 65%

Vertrauenswürdigkeit der Checkliste: ★★★★★

Voller Name: A Global Information System for Lichenized and Non-Lichenized Ascomycetes

Namensabkürzung: LIAS

Version: Dec 2015

Datum der Veröffentlichung: 2015-12-01

Autoren/Editoren: Rambold G. (lead editor; for detailed information see <http://liaslight.lias.net/About/Impressum.html> and <http://liasnames.lias.net/About/Impressum.html>)

Taxonomische Abdeckung: Fungi - Ascomycota - Eurotiomycetes - Pyrenulales, Verrucariales, Mycocaliciales
Fungi - Ascomycota - Dothideomycetes - Arthopyrenia, Eospyrenula, Lichenothelia, Mycoporum, Leptorhaphis, Naetrocymbe, Tomasellia, Peridiothelia, Pseudopyrenula, Cyrtidula, Cystocoleus, Kirschsteinothelia, Mycoglaena, Racodium
Fungi - Ascomycota - Leotiomycetes - Thelocarpaceae, Vezdaeaceae
Fungi - Ascomycota - Eurotiomycetes - Sarcopyrenia

Englischer Name für diese Gruppe: Lichens

Number of living species: 9,614

Number of living infraspecific taxa: 216

Number of extinct species: 0

Number of extinct infraspecific taxa: 0

Anzahl von Synonymen: 8,186

Anzahl von Vernakularnamen: 1,835

Gesamtzahl von Namen: 19,851

Zusammenfassung: LIAS is a multi-authored information system for the collection and distribution of descriptive and other biodiversity data on lichens and selected groups of non-lichenized ascomycetes. LIAS is a long-term designed project with the final goal to comprise global data – estimates for the total number of lichen species worldwide range between 13.500 and 20.000. As GSD for Lichens LIAS is delivering combined data from LIAS light at <http://liaslight.lias.net> and LIAS names at <http://liasnames.lias.net>.

Organisation: LIAS, Botanische Staatssammlung München, Germany

Website: <http://www.lias.net>

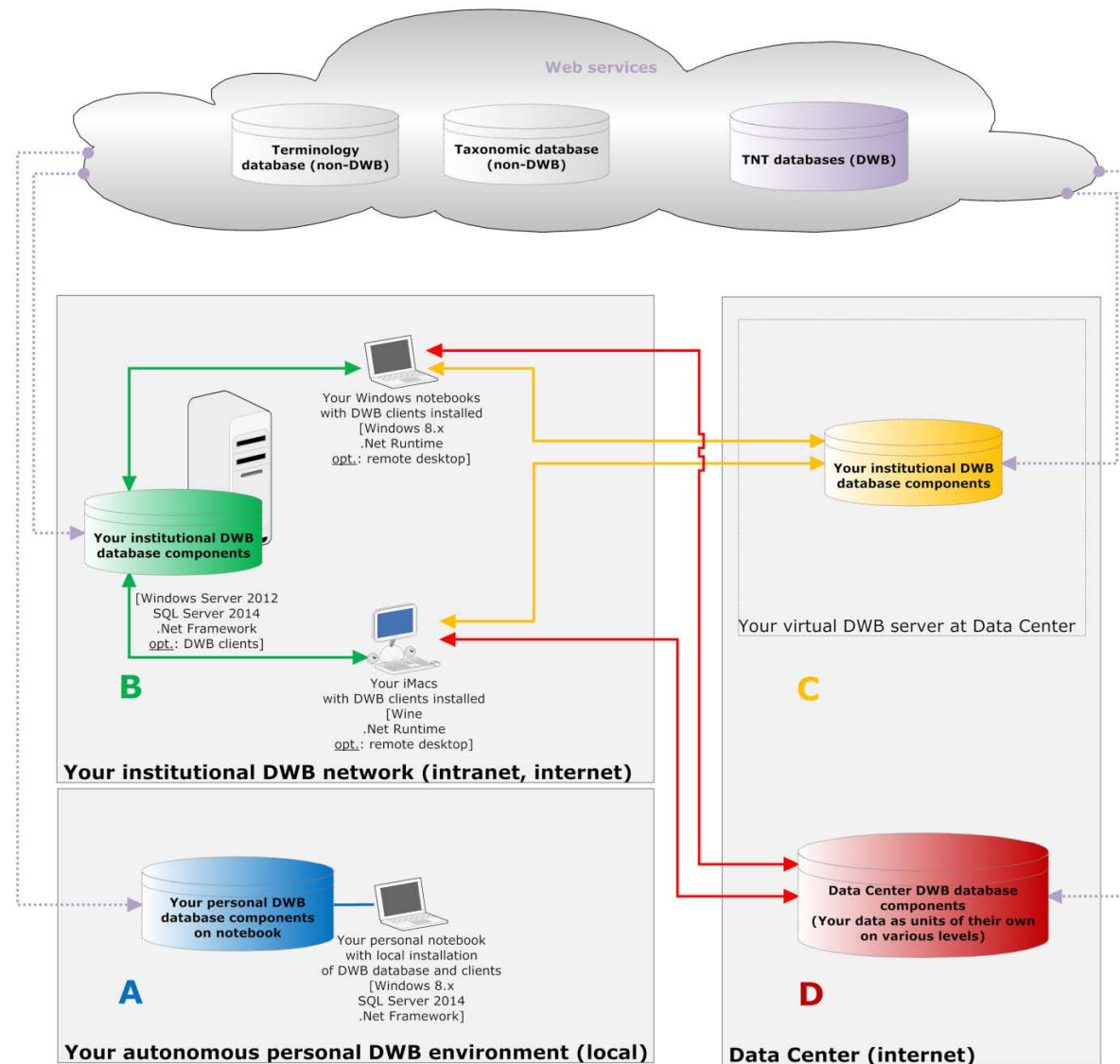
Bibliographic citation: Rambold G. (lead editor; for detailed information see <http://liaslight.lias.net/About/Impressum.html> and <http://liasnames.lias.net/About/Impressum.html>) (2016). LIAS: A Global Information System for Lichenized and Non-Lichenized Ascomycetes (version Dec 2015). In: Species 2000 & ITIS Catalogue of Life, 28th April 2016 (Roskov Y., Abucay L., Orrell T., Nicolson D., Kunze T., Flann C., Bailly N., Kirk P., Bourgoin T., DeWalt R.E., Decock W., De Wever A., eds). Digital resource at www.catalogueoflife.org/col. Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-8858.

Zurück zur letzten Seite | Neue Suche

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DWB – Alternativen der Installation

- Interoperabilität und Flexibilität
- TNT Cloud / Server
- Installations-Alternativen A-D
- Web-basiert
- Stand-alone (A)



Installation: Mobile Intranet Lösung

- Als Arbeitsumgebung zum Einsatz in Feldstationen ohne Internetzugang
- Als IT-Trainingsumgebung für DWB-Workshops an Orten mit unsicherer Stromversorgung

mehr unter http://diversityworkbench.net/Portal/Mobile_intranet_solution_for_DWB



SNSB IT Center

The screenshot shows a web browser window with the address bar displaying 'www.snsb.info/People.html'. The page features a green header with the SNSB IT Center logo and navigation links: 'HOME', 'ABOUT US', 'PEOPLE', 'SERVICES', and 'WORKSHOPS'. The main content area is titled 'People' and lists staff members with their roles. A sidebar on the left contains a large green graphic and the text 'staatliche naturwissenschaftliche sammlungen bayerns'. At the bottom, there is a note about temporary employment.

contact impressum disclaimer webmaster

HOME ABOUT US PEOPLE SERVICES WORKSHOPS

People

Dr. Dagmar Triebel	Head
Wolfgang Ahlmer*	Data Scientist and Research Assistant
Dr. Konstanze Bensch*	Research Scientist
Iris Leininger*	Data Scientist and Research Assistant
Anton Link*	Software Developer
Dieter Neubacher	System Administrator and Software Developer
Dr. Andreas Plank*	Research Scientist and Software Developer
Wolfgang Reichert*	Software Developer
Georg Rollinger*	Software Developer
Marcel Ruff*	Data Scientist and Research Assistant
Veronica Sanz*	Data Scientist and Research Assistant
Dr. Stefan Seifert*	System Administrator and Software Developer
Tanja Weibulat*	Data Scientist and Research Assistant
Dr. Markus Weiss	Software Developer

Former staff

Jan Ingenhaag	Research Assistant, Web Application Developer
Manfred Knick	System Administrator and Software Developer
Asif Rashid Lakehsar	Software Developer
Wiltrud Spiesberger	Research Assistant, Web Application Developer

and associated

Diversity Workbench	Co-workers
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* temporary employment

staatliche naturwissenschaftliche sammlungen bayerns

Danke



http://www.snsb.info/SNSBInfoOpenWiki/Wiki.jsp?page=DivWorkbenchWorkshop_29