



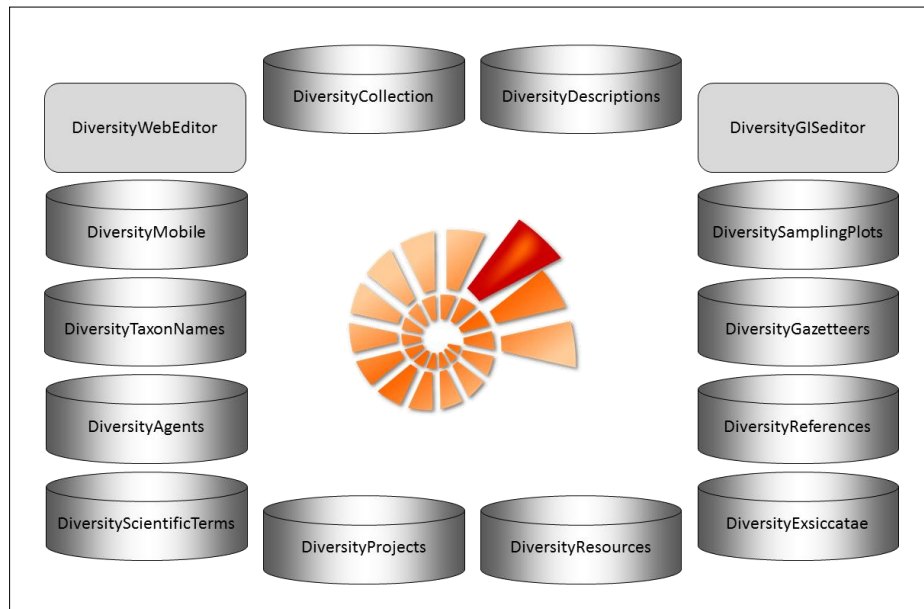
Diversity Workbench

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



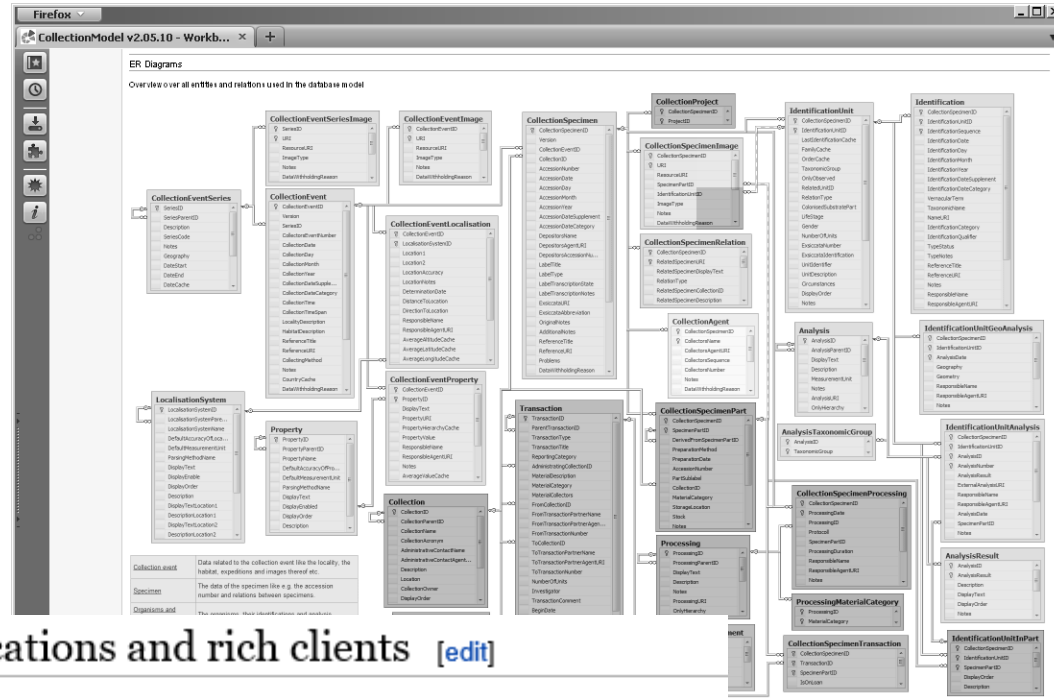
DWB – Open Source Code Repositorien

- z. Zt. 5 Entwickler: SNSB + UBT
- Quellcode in 2 Code-Repositorien
- Quellcode-Zeilen >1.4 Mill.
(in 3.080 Quellcode-Dateien)
(*Status 10.2016)
- GPL 2 Lizenz

The image shows two overlapping browser windows. The top window displays the Subversion repository for DiversityWorkbench at `svn.snsb.info/repos/DiversityWorkbench`. The page title is "DiversityWorkbench: Developer Tools - Subversion" and it shows "Revision 2268". A sidebar lists various subdirectories, with "/trunk" selected. The bottom window shows the GitHub page for the SNSB organization, titled "Staatliche Naturwissenschaftliche Sammlungen Bayerns". It lists several repositories, including "DWB-Contrib", "DiversityMobile2", "DiversityMobile", "DiversityService", and "DiversityAPI", each with a brief description and update date.

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)

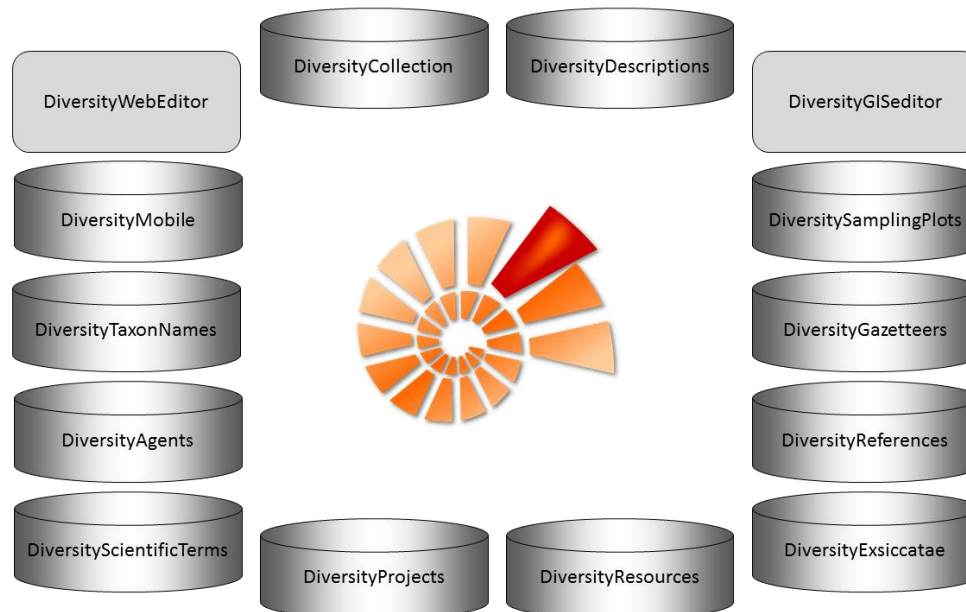
- Installationen an den SNSB inkl. ZSM (diverse VM und Instanzen; inkl. Datenbank(DB)-Hosting für rund 25 Partnerorganisationen; v.a. Unis)
- Installationen am ZFMK
- Installation am SMNK
- Installation am SMNS

z. Zt. 200 Anwender



z. Zt. 50 Anwender

z. Zt. 20 Anwender

z. Zt. 20 Anwender



DFG Resources: DWB empfohlen



[Leitseite](#) | [Katalog](#) | [Suche](#) | [Über RIsources](#)

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

GFBio: DWB empfohlen

Submit Your Data to a Public Repository

Why?
Making your data publicly available, as a part of a publication or not, is good scientific practice. In addition, you also get a Persistent Identifier (e.g. DOI) which you can use to cite your data and get credits when other do so.

Which repository?
Which repository is best suited to your data depends on the data itself. We offer several custom workflows depending on the (primary) data type. See the detailed descriptions below.

Standards matter!
Standardization of the data and its description (a.k.a. meta-data) is of key importance, so that your data is easily discoverable and comparable to similar data sets.

How to proceed?

1. [Sign In](#) (if you are not forwarded back to this page automatically, please use "Data->Submit" form the navigation menu).
2. Choose the type of data you want to submit and start the respective workflow.
3. Describe and upload your data. Our curators will review it, import it and contact you in case they need further assistance from you.
4. Once your data is published, you will receive a persistent identifier (PID), which can be used to cite your data.

Generic
Note sure where your data should go? Describe it and we will help you decide!

Collections
Deposit occurrence and taxon data in one of our dedicated data centers.

Environmental
Deposit environmental data in PANGAEA

Molecular
Deposit molecular sequence data in the European Nucleotide Archive.

Molecular Data
Molecular sequence data (e.g. short sequence reads) are submitted to the European Nucleotide Archive. You will receive a persistent identifier (called accession number), which can be used to cite your data. We will also help you apply the MIxI standard to your meta-data.

Collection Object Data
Collection objects, occurrence, observation and taxon checklist data, with or without physical objects, are deposited and curated in one of the GFBio collection data centers. Once the data is published via GFBio, you will receive a persistent identifier (DOI), which can be used to cite your data.

Tools & Workbenches

GFBio supports data producers in DFG projects with software for management of biodiversity data. Two German developer groups which develop and set up open source platforms for biodiversity data management extend their applications in the GFBio context. Please consult the homepages of [BExIS 2](#) and [Diversity Workbench \(DWB\)](#) to learn more about contributors, technical concepts, training courses, download of software, help with installations, user manuals, code repositories ... or persons for first contact listed there.

This is a beta version of the GFBio search. Currently, it includes data from PANGAEA and selected collection data centers. Updated "How-To-Search" guide is available [here](#).

Search: Parameters, authors, data center, taxa, ...

Show 12 entries per page

Previous Next Showing 1 to 10 of 2,809,595

Gagea villosa (M. Bieb.) Sweet., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset ID: 32852962488
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%A0_occurrence_data_online
Data Description

Gagea villosa (M. Bieb.) Sweet., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset ID: 32851962488
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%A0_occurrence_data_online
Data Description

Gagea villosa (M. Bieb.) Sweet., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset ID: 32852962488
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%A0_occurrence_data_online
Data Description

Catanthus sylvaticus L., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset ID: 3284962492
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%A0_occurrence_data_online
Data Description

Helichrysum asperatum (L.) Moench., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset ID: 3284962492
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%A0_occurrence_data_online
Data Description

GFBio Consortium

The German Federation for Biological Data (GFBio), a sustainable, service oriented, national data infrastructure facilitating data sharing for biological and environmental research.

Want to know more?
Support
Training

Contact us!
Write our Helpdesk Staff!
Got questions? Email us at info@gfbio.org

Sign up
Get full access to services and resources deriving benefit for your Projects
[Create an account!](#)

Search
Start searching integrated datasets.

Submit
Deposit data and specimens in dedicated long-term archives.

Manage
Prepare a custom Data Management Plan for your project or application.

Tools
Biodiversity Management tools developed and supported by GFBio.

LEGAL NOTICE

Diversity Workbench – Schnittstellen zum Datenmanagement

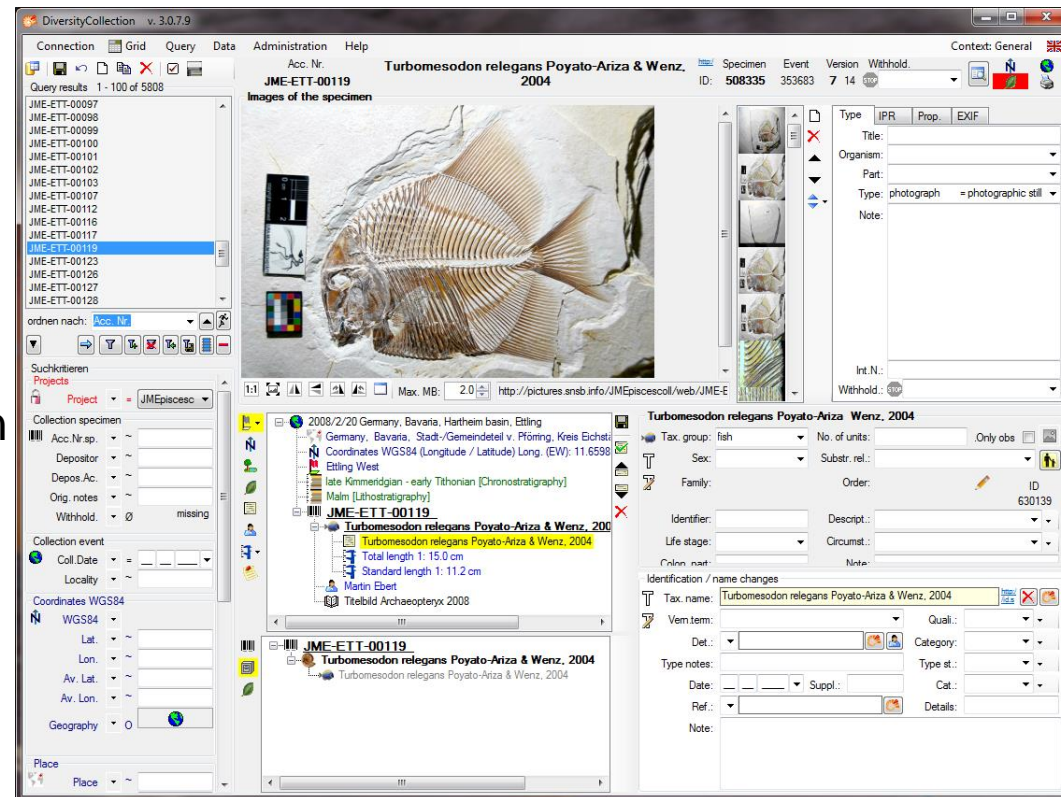
The screenshot displays the Diversity Workbench software interface, which is used for managing biological specimen data. The interface is divided into several windows:

- DiversityCollection v. 3.0.14:** Shows a list of specimens with columns for accession number, collection year, country, and locality. A table of specimens is visible at the bottom left.
- Specimen images:** Displays a photograph of a specimen, identified as *Ceratotherium simum* (Burchell, 1817).
- DiversityScientificTerms v. 3.0.0.0:** A window for managing scientific terms, showing a list of terms and their relationships.
- DiversityAgents v. 3.0.0.3:** A window for managing agents, showing a list of agents and their details.
- Agent: Hertel, Hannes, Prof. Dr.:** A detailed view of an agent, showing their title, name, and other information.
- DiversityTaxonNames, Database: DiversityTaxonNames_Fungi v. 3.0.15:** A window for managing taxonomic names, showing a list of names and their details.
- Taxonomic reference / Protologue:** A detailed view of a taxonomic reference, showing the name, rank, and other information.
- Synonymy overview:** A window showing a list of synonyms for a taxonomic name.

Accession number	Collection year	Country	Locality
SAPM-MA-00129	1989	Germany	Deutsche
SAPM-MA-00130	1989	Germany	Deutsche
SAPM-MA-00131	1989	Germany	Deutsche
SAPM-MA-00132	1989	Germany	Deutsche
SAPM-MA-00133	1989	Germany	Deutsche
SAPM-MA-00134	1989	Germany	Deutsche
SAPM-MA-00135	1989	Germany	Deutsche
SAPM-MA-00136	1989	Germany	Deutsche
SAPM-MA-00137	1989	Germany	Deutsche
SAPM-MA-00138	1989	Germany	Deutsche
SAPM-MA-00139	1989	Germany	Deutsche
SAPM-MA-00140	1989	Germany	Deutsche
SAPM-MA-00141	1989	Germany	Deutsche
SAPM-MA-00142	2000	China	China Ost
SAPM-MA-00143	1989	Germany	Deutsche
SAPM-MA-00144	1989	Germany	Deutsche
SAPM-MA-00145	1989	Germany	Deutsche
SAPM-MA-00146	1989	Germany	Deutsche
SAPM-MA-00147	1989	Germany	Deutsche
SAPM-MA-00148	1989	Germany	Deutsche
SAPM-MA-00149	1989	Germany	Deutsche
SAPM-MA-00150	1989	Germany	Deutsche
SAPM-MA-00151	1989	Germany	Deutsche
SAPM-MA-00152	1989	Germany	Deutsche

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

GBIF.org
Data Publisher - Staatliche ...
www.gbif.org/publisher/6074ea0b-a7d3-11e8-9534-b8a03c50a862

Staatliche Naturwissenschaftliche Sammlungen Bayerns
Data publisher. More information

BiNHum Portal
The biodiversity portal of the Humboldt-Ring project, for querying the biodiversity data of different institutions.
www.binhum.net/?fq=country%3A%27Afghanistan%27

Bayernflora
www.bayernflora.de/web/

GfBio website - home
gfbio
About | Data | Training | Support | News | Contact | Sign In
This is a beta version of the GfBio search. Currently, it includes data from PANGAEA and selected collection data centers.
A detailed 'How-To-Search' guide is available [here](#).

Search: Parameters, authors, data center, taxa, ...
Show 10 entries per page
Showing 1 to 10 of 2.809.595 entries

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

Additional Filter:
Scientific name
astragalus (90)
milk-vetches (90)
milkvetch (90)
Genus
Astragalus (90)
Cousinia (34)
Acantholimon (20)
Country
Afghanistan (332)
Type status
isotype (93)
not a type (83)
holotype (72)
Collector
Podlech, D. (138)
Rechinger, K.H. (70)
Griffith, W. (33)
Institution
M (332)
Collection
BSMMyriaplantscoll (287)

Startseite
Aktuelles
Veranstalt
Das Wiki
Mitarbeit
Projekte
Forum
Quiz
Bestimmungs
Verbreitung
Pflanzensammlungen
Datenbanken
Datenbanken
Basisfach
AG Flora
Dokumentation
Geschichte
Intern
Links
Archiv
Hilfe

Wiki-Werkzeuge
Links auf
Änderung
Seiten
Datei hochladen
Spezialseiten
Druckversion

Ambrosia a Beifußblättr
167 Angaben

Gagea villosa (M. Bieb.) Sweet., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset [ID: 32850962488]
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%80_occurrence_data_online
Data Description

Gagea villosa (M. Bieb.) Sweet., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset [ID: 32851962498]
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%80_occurrence_data_online
Data Description

Gagea villosa (M. Bieb.) Sweet., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset [ID: 32852962490]
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%80_occurrence_data_online
Data Description

Galanthus nivalis L., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset [ID: 32854962492]
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%80_occurrence_data_online
Data Description

Helichrysum arenarium (L.) Moench., a human observation record of the "Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria" dataset [ID: 32984962622]
Data Center: Data Center SNSB
Summary: http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%80_occurrence_data_online
Data Description

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

Erythroneura aclys McAtee

Project: Erythroneura, Language: en, DB key: 868

Description: Erythroneura aclys McAtee

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

Terminologien, Referenzen, Vokabularien.....

DiversityAgents

Verwaltung von Personen und Organisationen

DiversityReferences

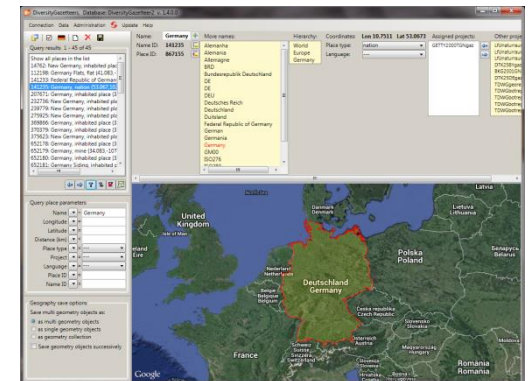
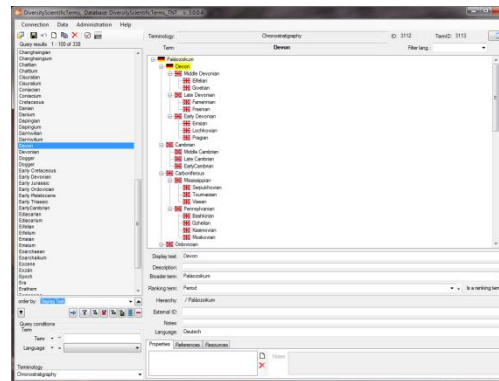
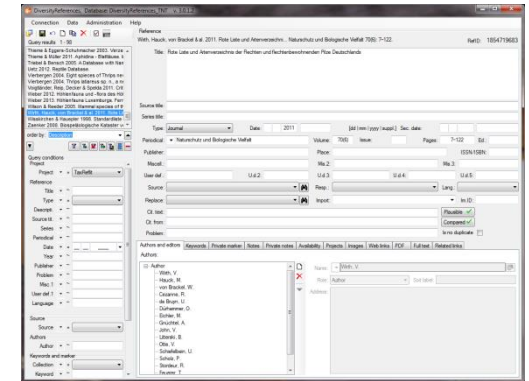
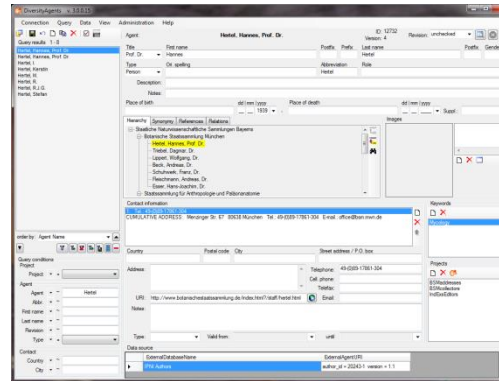
Verwaltung von Literaturreferenzen und Literaturdokumenten

DiversityScientificTerms

Management von Ontologien, Terminologien

DiversityGazetteers

Verwaltung geographischer Namensbestände, oft mit GIS Information und Hierarchien



DiversityTaxonNames

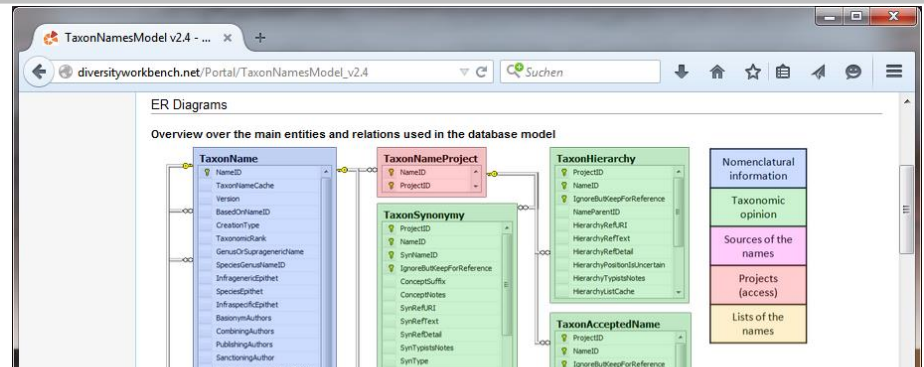
- Management von taxonomischen Namen, verknüpfter Information
- Management von Synonymen, akzeptierten Namen, Klassifikationen, Typifizierung and Volksnamen
- Erstellung von Taxonreferenzlisten, Checklisten mit z. B. geographischen, naturräumlichen oder Naturschutzkategorien

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

- Left Panel:** A list of taxonomic names, including *Biatora plicata*, *Biatora poetschiana*, *Biatora pontica*, *Biatora porphyroplaca*, *Biatora porphyropoda*, *Biatora propinquata*, *Biatora pullata*, *Biatora pyracea*, *Biatora pyrophthalma*, *Biatora rhododendri*, *Biatora rufidula*, *Biatora rufofusca*, *Biatora rugulosa*, *Biatora scorigena*, *Biatora scotopholia*, *Biatora similis*, *Biatora sorediosa*, *Biatora sphaeroides*, *Biatora sphaeroidiza*, *Biatora straminea*, *Biatora subconcolor*, *Biatora subdiffRACTA*, *Biatora subduplex*, and *Biatora subduplex*.
- Top Panel:** Taxonomic name details for *Biatora sylvana* Korb. It includes fields for Genus (*Biatora*), Species epithet (*sylvana*), Author (*Korb.*), Bas. auth., Comb. auth., Publ. auth., and Sanct. It also shows the Rank (*species*) and On. orthogr. (empty).
- Protologue Panel:** A table with columns for Volume, Issue, Pages, Details, D. M. Y. of P., and Suppl. The entry for *Biatora sylvana* is listed with Volume 200, Issue 1, and Year 1855.
- Hierarchy Panel:** A tree view showing the taxonomic classification. The path is: Acomycota Caval.-Sm. > Pezizomycotina O. E. Erikss. & Winka > Lecanoromycetes > Lecanoromycetidae P. M. Kirk, P. F. Cannon, J. C. David & ... > Lecanorales Nannf. > Ramalinaeae C. Agardh > *Biatora* Fr. > *Biatora sylvana* Korb.
- Typification Panel:** Details for the type specimen, including Reference (New reference 1), Typification (isotype M-0061230), Substrate, Sp. notes (M-0061230), and Notes.
- Synonymy Panel:** A list of synonyms for *Biatora sylvana* Korb. The first synonym is *Lecania hyalina* (Fr.) R. Sant., which is marked as a heterotypic synonym.
- Synonymy overview Panel:** A list of references for the taxon, including *Lecania hyalina* (Fr.) R. Sant., *Lecidea globulosa* Florke, *Biatora globulosa* (Florke) Fr., *Catilaria globulosa* (Florke) Th. Fr., *Bacidia globulosa* (Florke) Hafellner & V. Wirth, and *Lecania globulosa* (Florke) van den Boom & Sérus.

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



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 for Taxon Lists 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 List	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/or 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/or 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	29.680	11.766. +	3.664	Frank Dammrich	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 project	TaxRef_LIAS_LichFungi_DE	Lichen-associated fungi	Germany	826		4	Wolfgang von Brackel, Dr. Dagmar Triebel, Dr. Konstanze Bensch	SNSB-BSM; LIAS	Wirth et al. 2011; LIASnames

Global Biodiversity Information Facility

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Taxon list of fungi and fungal-like ...

Checklist dataset published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

17.410

32.679

Species
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/gtvmjw](https://doi.org/10.15468/gtvmjw)

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 image shows two overlapping browser windows. The background window is the 'LIAS names' website (liasnames.lias.net). The foreground window is the 'Melastomataceae.Net - MELNET' website (www.melastomataceae.net/MELnames/MELnames_Details.jsp?NameID=385435).

LIAS names website (Background):

- URL: liasnames.lias.net
- Search bar: Suchen
- Navigation: About, Cooperating Websites
- Menu: LIAS, LIAS light, LIAS checklists, LIAS glossary
- Buttons: QUERY, WEB SERVICE
- Form: Name (Lecano), Epithet (empty)
- Options: Accepted names only, Include non-nomenclatural names
- Buttons: Submit, Reset
- Section: Classification (Browse)

MELNET website (Foreground):

- URL: www.melastomataceae.net/MELnames/MELnames_Details.jsp?NameID=385435
- Search bar: Suchen
- Navigation: About, Cooperating Websites
- Section: MEL names (A Database with Names of Melastomataceae)
- Form: 2 characters minimum, Go
- Options: Name, Epithet, Accepted names only
- Buttons: Browse Classification, Web Service
- Results:
 - Entered Name:** *Miconia cordifolia* Alain
 - Name ID:** 385435
 - Accepted Name:** *Miconia javorkaena* 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 5: 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.

LIAS GSD – Diversity TaxonNames

Catalogue of Life: LIAS

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


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:	★★★★☆

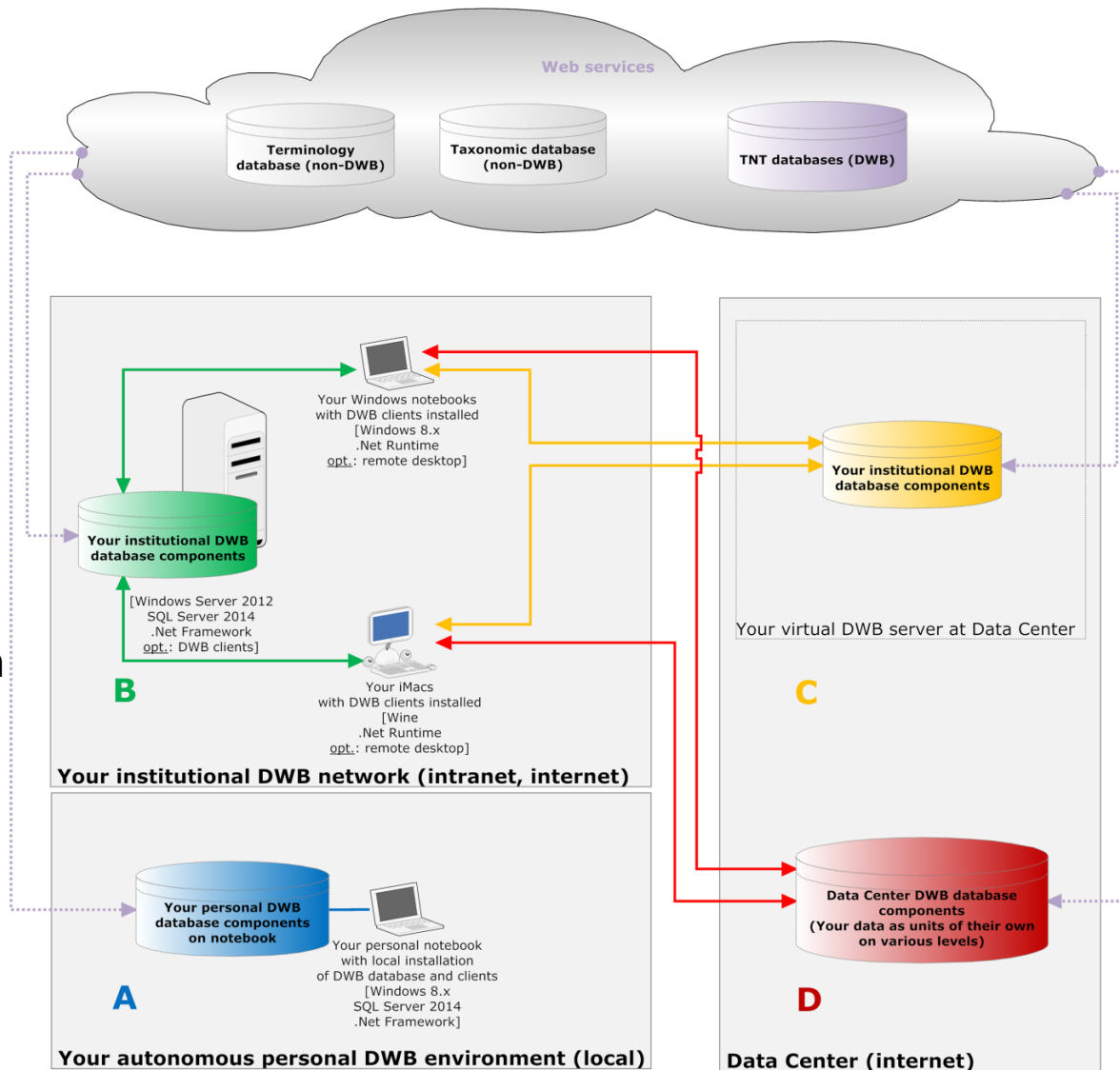
Voller Name: A Global Information System for Lichenized and Non-Lichenized Ascomycetes
Namensabkürzung: LIAS
Version: Dec 2015
Datum der Veröffentlichung: 2015-12-01
Autoren/Editoren: Rambold G. (lead editor; for detailed information see <http://liaslight.lias.net/About/Impressum.html> and <http://liasnames.lias.net/About/Impressum.html>)
Taxonomische Abdeckung: Fungi - Ascomycota - Eurotiomycetes - Pyrenulales, Verrucariales, Mycocaliciales
Fungi - Ascomycota - Dothideomycetes - Arthopyrenia, Eopyrenula, 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

Annual Checklist Interface v1.9 r2126ab0 Entwickelt von Naturalis Biodiversity Center. Bitte beachten sie - diese Seite benutzt cookies. Wenn sie weiterhin diese Seite nutzen, nehmen wir an, dass Sie der Verwendung zustimmen.

DWB – Alternativen der Installation

- Interoperabilität und Flexibilität
- DWB Cloud / Server TNT
- Installations-Alternativen A-D
- Netzwerklösungen (B-C)
- Stand-alone (A)



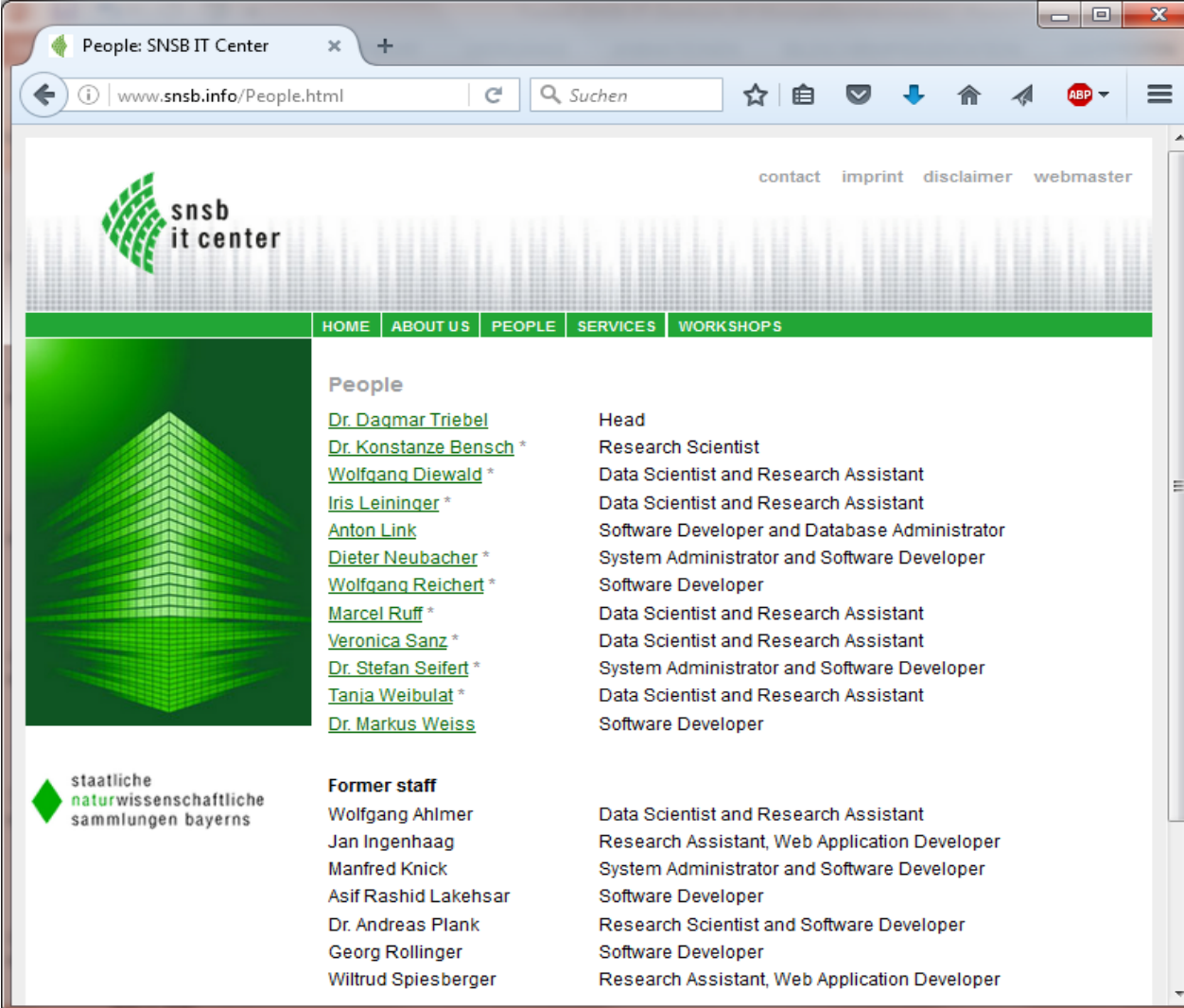
Installation: Mobile Intranet Lösung

- 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 displaying the SNSB IT Center website. The browser's address bar shows the URL www.snsb.info/People.html. The website features a green and white color scheme. At the top, there is a navigation menu with links for 'contact', 'imprint', 'disclaimer', and 'webmaster'. Below this is a green navigation bar with links for 'HOME', 'ABOUT US', 'PEOPLE', 'SERVICES', and 'WORKSHOPS'. The main content area is titled 'People' and is divided into two columns. The left column lists the names of the current staff members, and the right column lists their roles. Below the current staff list, there is a section for 'Former staff' with their names and roles. The SNSB logo is visible in the top left corner, and the logo of the State Natural Science Collections of Bavaria is in the bottom left corner.

People

Dr. Dagmar Triebel	Head
Dr. Konstanze Bensch *	Research Scientist
Wolfgang Diewald *	Data Scientist and Research Assistant
Iris Leininger *	Data Scientist and Research Assistant
Anton Link	Software Developer and Database Administrator
Dieter Neubacher *	System Administrator and Software Developer
Wolfgang Reichert *	Software Developer
Marcel Ruff *	Data Scientist and Research Assistant
Veronica Sanz *	Data Scientist and Research Assistant
Dr. Stefan Seifert *	System Administrator and Software Developer
Tania Weibulat *	Data Scientist and Research Assistant
Dr. Markus Weiss	Software Developer

Former staff

Wolfgang Ahlmer	Data Scientist and Research Assistant
Jan Ingenhaag	Research Assistant, Web Application Developer
Manfred Knick	System Administrator and Software Developer
Asif Rashid Lakehsar	Software Developer
Dr. Andreas Plank	Research Scientist and Software Developer
Georg Rollinger	Software Developer
Wiltrud Spiesberger	Research Assistant, Web Application Developer

Danke



http://www.snsb.info/SNSBInfoOpenWiki/Wiki.jsp?page=DivWorkbenchWorkshop_30