



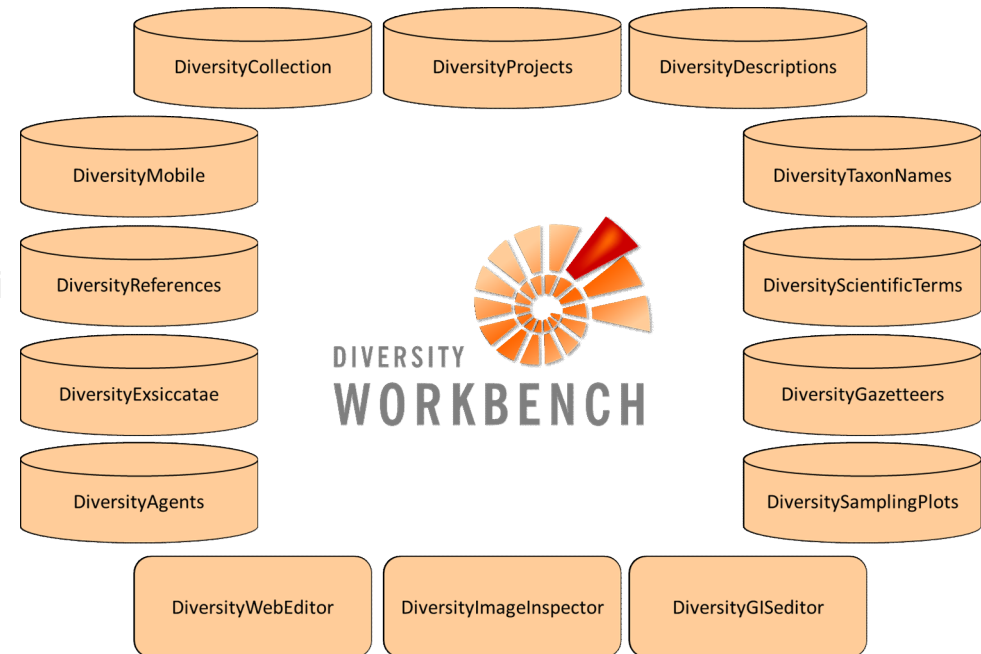
Diversity Workbench

Einführung

Dagmar Triebel

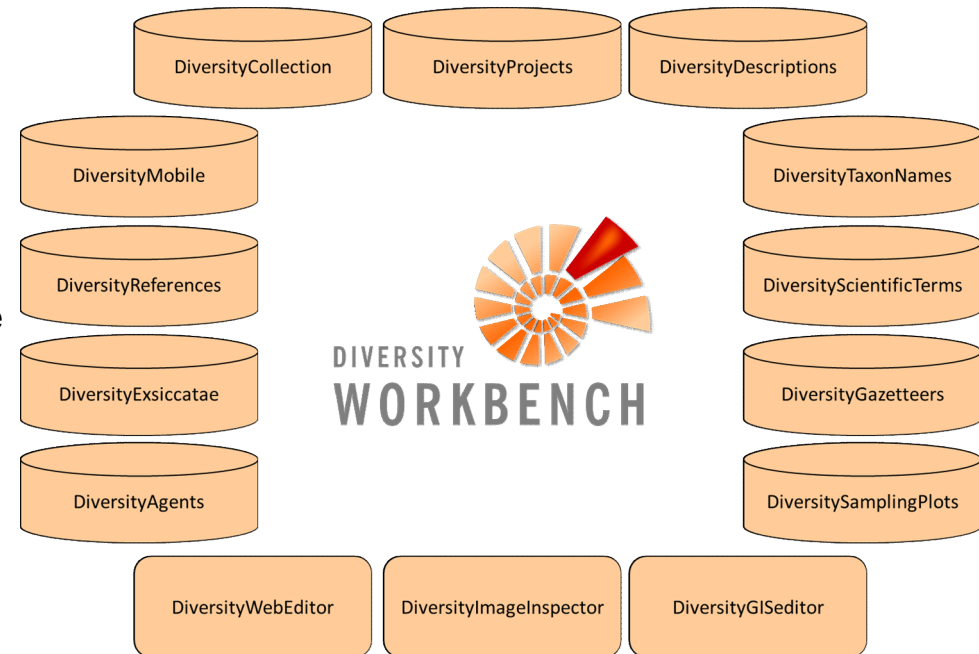
DWB – System aus SQL-Datenbanken

- 11 Datenbanken als Werkzeuge zum Datenmanagement nach Datendomänen
- Direkte Interoperabilität von Datenbank-Komponenten untereinander und mit den drei weiteren Tools zur Datenprozessierung



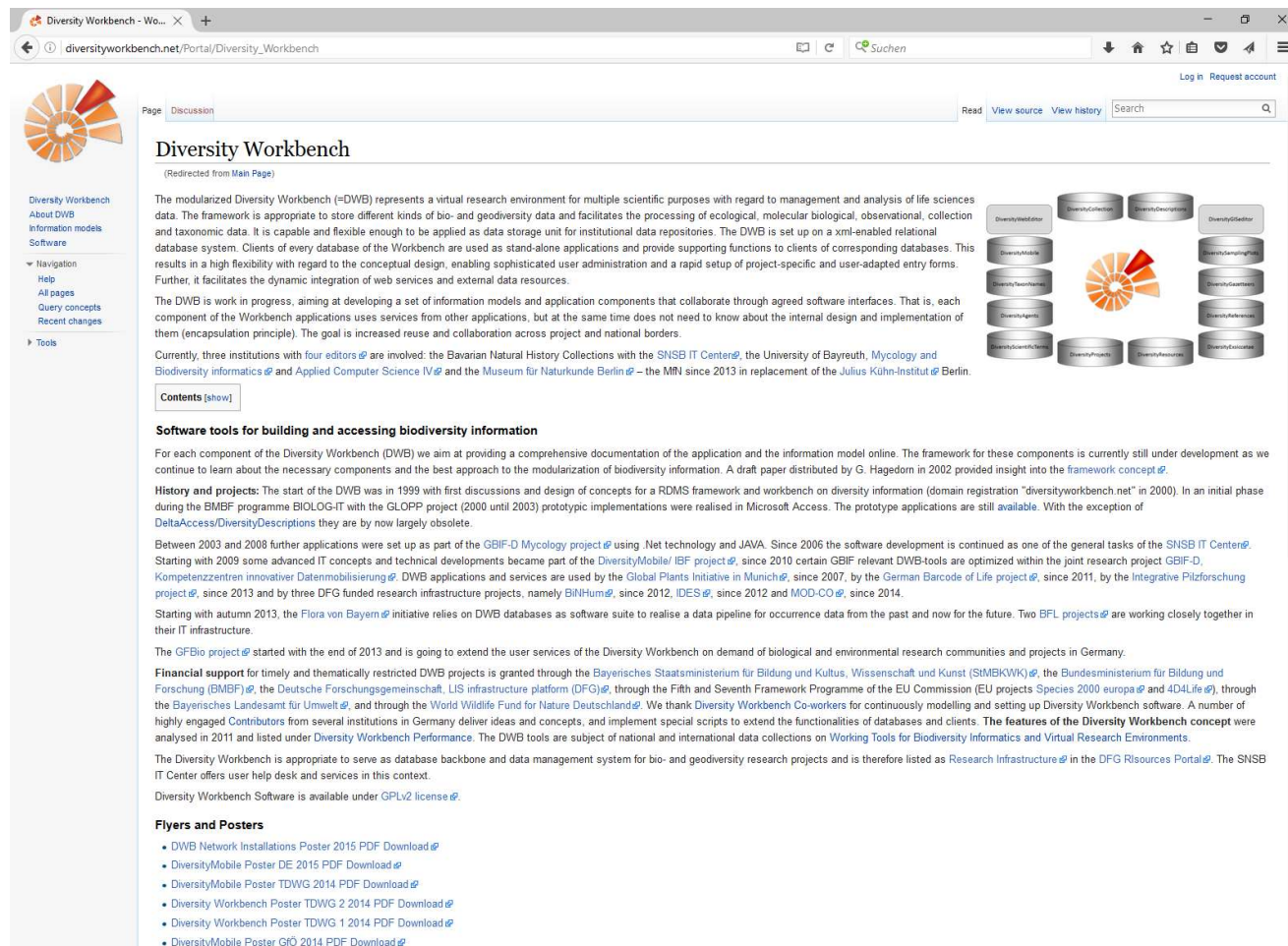
DWB – System aus SQL-Datenbanken

- Diversitätsdatensätze aus Bio-und Geowissenschaften; aus allen organismischen Großgruppen: Pflanzen, Algen, Pilze, Wirbeltiere, Insekten, Fossilien...
- Monitoringdaten, ökologische und molekulare Daten
- Geeignet als Datenmanagement-System für Datenzentren / naturwissenschaftliche Sammlungen, aber auch für einzelne Forscher und große Forschungsprojekte



DWB – Dokumentation online

- www.diversityworkbench.net








The screenshot shows the Diversity Workbench website in a browser window. The page title is "Diversity Workbench" and it is noted as "(Redirected from Main Page)". The main content area describes the modularized Diversity Workbench (DWB) as a virtual research environment for managing and analyzing life sciences data. It mentions that the framework is appropriate for storing various types of data and facilitates processing of ecological, molecular biological, and taxonomic data. The page also lists several institutions involved in the project, including the Bavarian Natural History Collections, SNSB IT Center, University of Bayreuth, Mycology and Biodiversity Informatics, Applied Computer Science IV, and the Museum für Naturkunde Berlin. A "Contents" section is visible, followed by a "Software tools for building and accessing biodiversity information" section. The page includes a navigation sidebar on the left and a search bar at the top right.

DWB – Dokumentation online

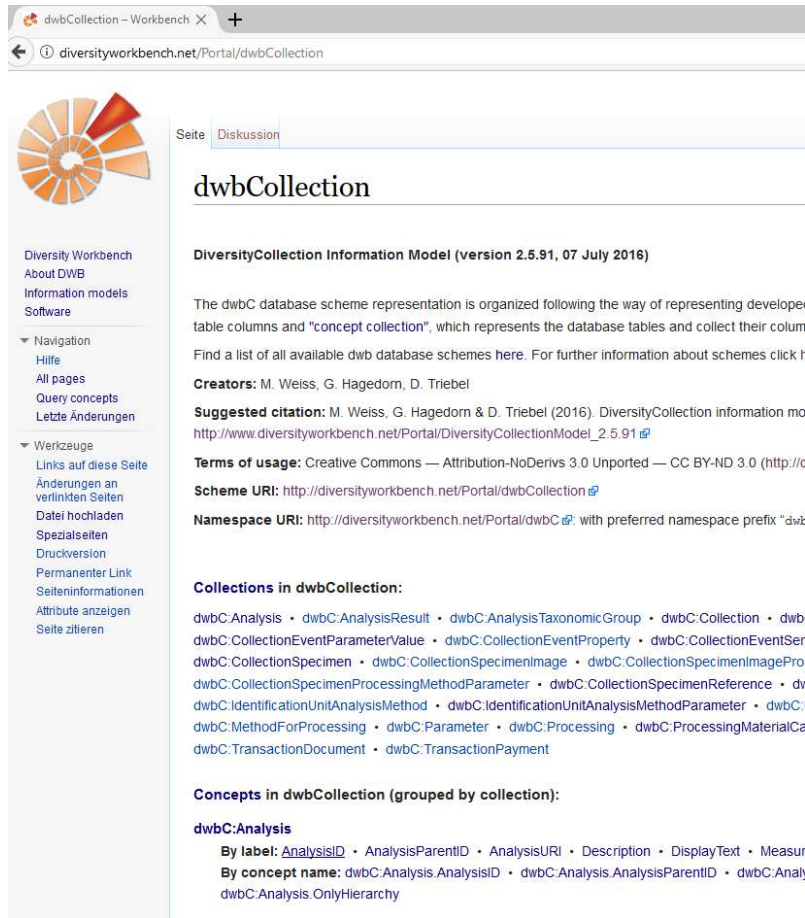
- Technische Dokumentation

Technical documentation for the core applications and rich clients

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
GIS functionalities	GIS-Editor , management of geometry and geography data
GUIs for data import	Import-Wizards, txt, CSV, xml in various schemes, xml/xslt, shapes in ESRI-Format
GUIs for data export/ reports	Export-Wizards, txt, CSV, xml in various schemes, xml/xslt, shapes in ESRI-Format
GUI language	default: english (multilingual through translation tables)
Open access	DWB software download
Open source	DWB SVN code repository  , DiversityMobile GitHub repository 
Licenses	GPL v.2
Information models online	DWB data models
State of development	since 1999, ongoing
Code language, developer platform	C#, .Net Framework 3.5
User manuals	under DWB user manuals and with the download of the respective applications in the DWB Wiki
Training	DWB workshops  for users and database administrators since 2007

DWB – Dokumentation online

- ER Diagramme and db Schemata



Navigation:

- Home
- Information models
- Software
- Navigation
 - Hilfe
 - All pages
 - Query concepts
 - Letzte Änderungen
- Werkzeuge
 - Links auf diese Seite
 - Änderungen an verlinkten Seiten
 - Datei hochladen
 - Spezialseiten
 - Druckversion
 - Permanenter Link
 - Seiteninformationen
 - Attribute anzeigen
 - Seite zitieren

dwbCollection

DiversityCollection Information Model (version 2.5.91, 07 July 2016)

The dwbC database scheme representation is organized following the way of representing developer table columns and "concept collection", which represents the database tables and collect their column. Find a list of all available dwb database schemes here. For further information about schemes click t

Creators: M. Weiss, G. Hagedorn, D. Triebel

Suggested citation: M. Weiss, G. Hagedorn & D. Triebel (2016). DiversityCollection information mo http://www.diversityworkbench.net/Portal/DiversityCollectionModel_2.5.91/

Terms of usage: Creative Commons — Attribution-NoDerivs 3.0 Unported — CC BY-ND 3.0 (http://)

Scheme URI: <http://diversityworkbench.net/Portal/dwbCollection/>

Namespace URI: <http://diversityworkbench.net/Portal/dwbC/>; with preferred namespace prefix "dwbC"

Collections in dwbCollection:

- dwbC:Analysis • dwbC:AnalysisResult • dwbC:AnalysisTaxonomicGroup • dwbC:Collection • dwbC:CollectionEventSer • dwbC:CollectionEventParameterValue • dwbC:CollectionEventProperty • dwbC:CollectionEventSeries • dwbC:CollectionEventSeriesImage • dwbC:CollectionEventSeriesImageProperty • dwbC:CollectionExternalData source • dwbC:CollectionProject • dwbC:CollectionSpecimen • dwbC:CollectionSpecimenImage • dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionEvent • dwbC:CollectionEventLocalization • dwbC:CollectionEventProperty • dwbC:CollectionEventSeries • dwbC:CollectionEventSeriesImage • dwbC:CollectionEventSeriesImageProperty • dwbC:CollectionExternalData source • dwbC:CollectionProject • dwbC:CollectionSpecimen • dwbC:CollectionSpecimenImage • dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionEventSeries • dwbC:CollectionEventSeriesImage • dwbC:CollectionEventSeriesImageProperty • dwbC:CollectionExternalData source • dwbC:CollectionProject • dwbC:CollectionSpecimen • dwbC:CollectionSpecimenImage • dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionEventSeriesImage • dwbC:CollectionEventSeriesImageProperty • dwbC:CollectionExternalData source • dwbC:CollectionProject • dwbC:CollectionSpecimen • dwbC:CollectionSpecimenImage • dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionExternalData source • dwbC:CollectionProject • dwbC:CollectionSpecimen • dwbC:CollectionSpecimenImage • dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionProject • dwbC:CollectionSpecimen • dwbC:CollectionSpecimenImage • dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionSpecimen • dwbC:CollectionSpecimenImage • dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionSpecimenImage • dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionSpecimenImageProperty • dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:CollectionSpecimenRelation • dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:IdentificationUnitGeoAnalysis • dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:AnalysisTaxonomicGroup • dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:ProjectAnalysis • dwbC:AnalysisResult
- dwbC:AnalysisResult

Concepts in dwbCollection (grouped by collection):

dwbC:Analysis

By label: AnalysisID • AnalysisParentID • AnalysisURI • Description • DisplayText • MeasurementUnit • Notes • OnlyHierarchy

By concept name: dwbC:Analysis.AnalysisID • dwbC:Analysis.AnalysisParentID • dwbC:Analysis.AnalysisURI • dwbC:Analysis.Description • dwbC:Analysis.DisplayText • dwbC:Analysis.MeasurementUnit • dwbC:Analysis.Notes • dwbC:Analysis.OnlyHierarchy

ER Diagrams

Overview over all entities and relations used in the database model (nomenclature does not include)



The colors in the diagram indicate the logical group of the tables as described in the legend. Some "toolkeeping" fields and bases for the documentation when and by whom the data were created or changed are not shown in the overview or the detail diagrams.

DWB – Dokumentation online

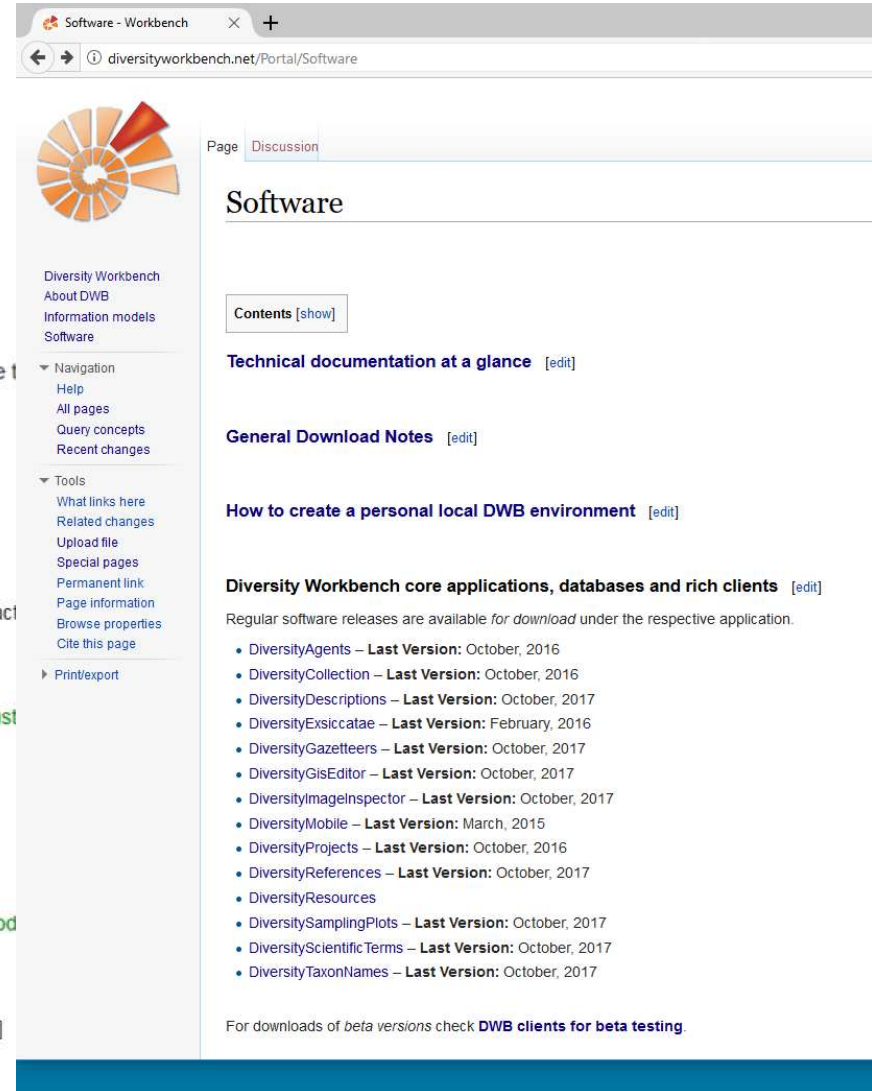
- Download von (Client-)Software: offiziell freigegebene Versionen u. Beta-Versionen

DiversityCollection [\[edit\]](#)

[\[Hide\]](#) [Download the Client software 3.0.8.9 z71 \(zip archive\)](#), 2017/10/25

New features and fixes:

- User can not change password
- Call back if application should be closed
- Non biological taxonomic group (e.g. rock, mineral) connect to DiversityScientificTerms for a name
- Show or hide relation details
- Display of subcollection content: Bugfix
- Display of query fields: Bugfix
- Adding external identifiers to references
- Administration of Datawithholding for the collection date: Bugfixes
- Labelprint: TransactionTitle added
- Labelprint Bugfix: rank subsp. was not detected, infos from DiversityTaxonNames included, transaction
- Extension of remote sources with projects [OK Manual: Customize - Settings \(D. Triebel\)](#)
- Identification: bugfix when inserting default identifier URI without identifier [OK](#)
- Setting the resources directory (Administration - Resources directory) [OK \(P. Grobe\)](#); [Manual: Cust](#)
- TK25 - updated form for getting the coordinates, bugfix
- Distribution maps: Bugfix
- Display of analysis in overview including date and number [OK](#)
- Create stable identifier for whole database [OK \(T. Weibulat\)](#); [Manual: Stable identifier](#)
- Links to module entries for local databases - bugfix
- Choosing entry from linked modules via keyboard and space key [OK \(A. Rosenbauer\)](#); [Manual: Mod](#)
- Analysis administration: several columns for query added [OK](#)
- Stock - removing enabled [OK \(D. Neumann\)](#)
- Setting timeout for database updates for Postgres only [OK Manual: Cache database packages \[?\]](#)
- Showing processing ID in interface [OK](#)



The screenshot shows a web browser window with the URL diversityworkbench.net/Portal/Software. The page title is "Software". On the left, there is a navigation menu with sections: "Diversity Workbench" (About DWB, Information models, Software), "Navigation" (Help, All pages, Query concepts, Recent changes), "Tools" (What links here, Related changes, Upload file, Special pages, Permanent link, Page information, Browse properties, Cite this page), and "Print/export". The main content area has a "Page" dropdown set to "Discussion" and a "Software" heading. Below this is a "Contents [show]" button. The page lists several sections: "Technical documentation at a glance [edit]", "General Download Notes [edit]", "How to create a personal local DWB environment [edit]", and "Diversity Workbench core applications, databases and rich clients [edit]". Under the last section, it states "Regular software releases are available for download under the respective application." and lists various applications with their last versions: DiversityAgents (October, 2016), DiversityCollection (October, 2016), DiversityDescriptions (October, 2017), DiversityExsiccatae (February, 2016), DiversityGazetteers (October, 2017), DiversityGisEditor (October, 2017), DiversityImageInspector (October, 2017), DiversityMobile (March, 2015), DiversityProjects (October, 2016), DiversityReferences (October, 2017), DiversityResources, DiversitySamplingPlots (October, 2017), DiversityScientificTerms (October, 2017), and DiversityTaxonNames (October, 2017). At the bottom, it says "For downloads of beta versions check [DWB clients for beta testing](#)".

DWB-Entwickler und DWB-Open Source Code

z. Zt. 4 DWB Entwickler an den SNSB

- Quellcode in 2 Code-Repositories
- Quellcode-Zeilen >1.6 Mill.
(in 3.224 Quellcode-Dateien)
(Status 10.2017)
- Angepasste Services werden derzeit
an der UBT, SMNK und ZFMK
entwickelt

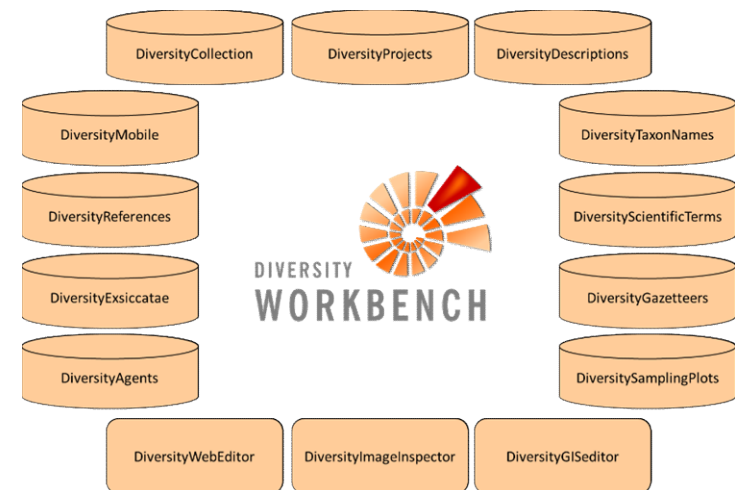
The image shows two overlapping browser windows. The top window displays the Subversion repository for DiversityWorkbench at `svn.snsb.info/repos/Diversit`. The page title is "DiversityWorkbench: Developer Tools - Subversion". Below the title, there is a directory listing for the "/trunk" path, including subdirectories like "DiversityAgents/", "DiversityCollection/", "DiversityDescriptions/", "DiversityExsiccatae/", "DiversityGazetteer/", "DiversityImageInspector/", "DiversityMaintenance/", "DiversityMobile/", "DiversityProjects/", "DiversityReferences/", "DiversitySamplingPlots/", "DiversityScientificTerms/", "DiversitySynchronization/", "DiversityTaxonNames/", "DiversityWorkbench/", "DiversityWorkbench4/", "HelpProjects/", "HelpProvider/", "XMLParser/", and "DiversityWorkbench.sln".

The bottom window shows the GitHub repository for "Staatliche Naturwissenschaftliche Sammlungen Bayerns" at `https://github.com/SNSB`. The repository list includes:

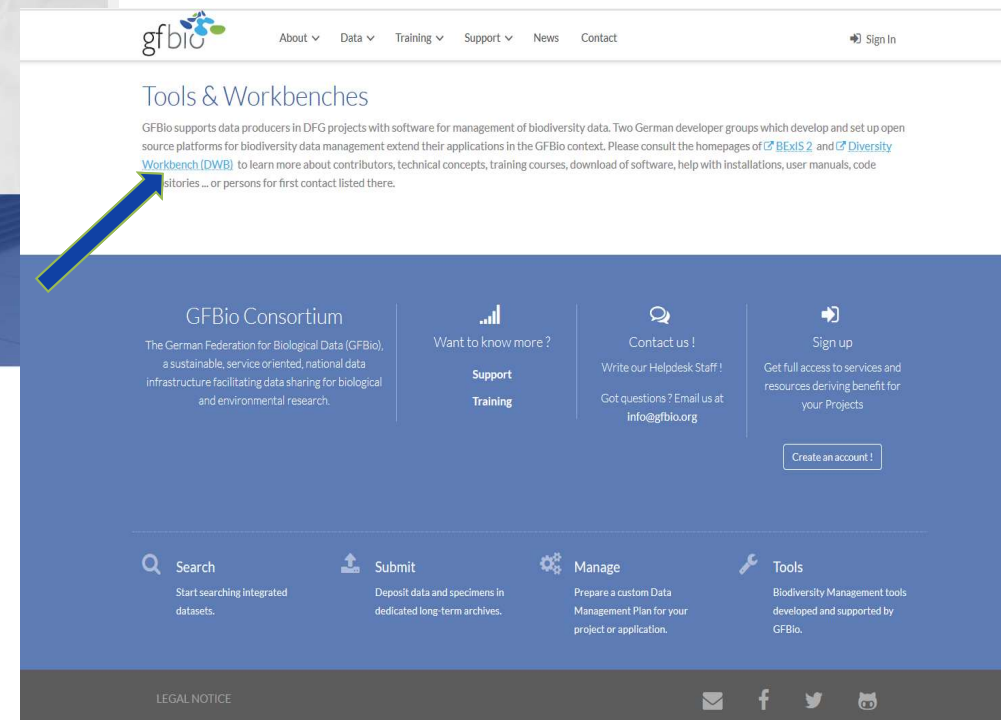
- DWB-Contrib**: DWB-Contrib Schemes and files as contribution for DWB clients: e. g., to organise import, export and label print. Updated 12 days ago.
- DiversityMobile2**: Prototype of a cross-platform application using the Diversity REST API. Updated on 17 Dec 2015.
- DiversityMobile**: DiversityMobile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

Anzahl der 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. Universitäten) z. Zt. 200 Anwender
- Installationen am ZFMK z. Zt. 50 Anwender
- Installationen am SMNK z. Zt. 20 Anwender
- Installationen am SMNS z. Zt. 25 Anwender
- Weitere Installationen ? > 50 Anwender



DFG und GFBio: DWB empfohlen



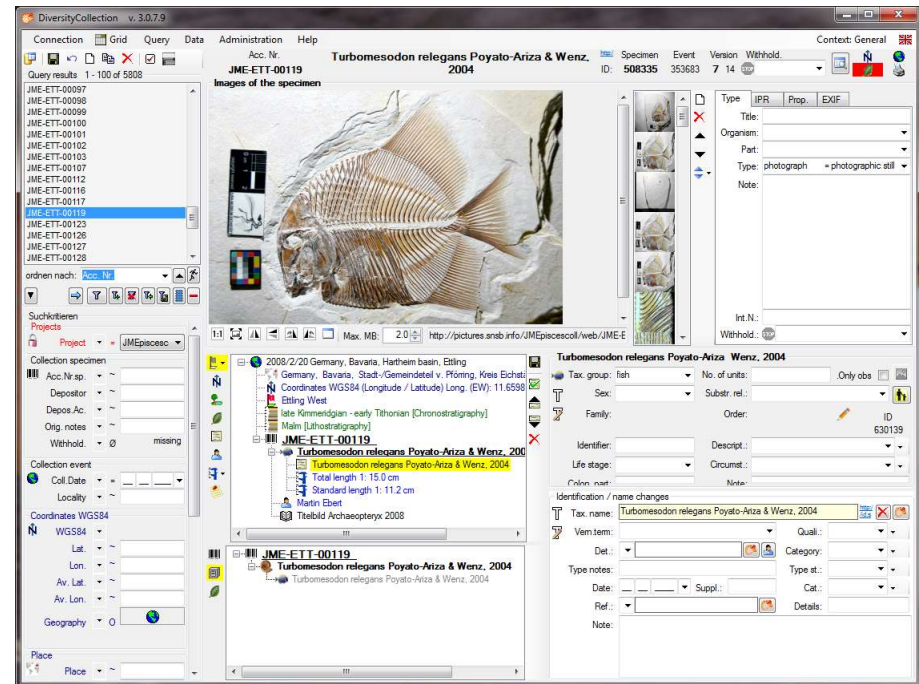
Diversity Workbench – Schnittstellen zum Datenmanagement

The screenshot displays the Diversity Workbench interface with several overlapping windows:

- DiversityCollection v. 3.0.3.6:** Shows specimen data for *Ceratotherium simum* (Burchell, 1817). A table lists accession numbers (e.g., SAPM-MA-00129 to SAPM-MA-00152), collection years (1880-1993), countries (Germany, South Africa, China), and localities (e.g., Indusium, Jura, Jurassic).
- DiversityScientificTerms v. 3.0.0.0:** A hierarchical tree structure for scientific terms, with 'Indusium' selected. It includes fields for description, broader term, ranking term, and external ID.
- DiversityAgents v. 3.0.0.3:** Agent information for 'Hertel, Hannes, Prof. Dr.', including title, given name, and affiliation.
- DiversityTaxonNames, Database: DiversityTaxonNames_Fungi v. 3.0.1.5:** Taxonomic details for *Biatora sylvana* Korb. It includes nomenclature, taxonomic reference (Syst. Lich. Germ. 200), and a synonymy overview listing various historical names and their authors.

DiversityCollection (DC)

- Management von Beobachtungs- und Sammlungsdaten
 - Beobachtungs-Ereignisse, Expeditionen
 - Identifikation von Objekten
 - Administration von Objekttransfer (Ausleihe, Inventarisierung)
 - Präparation und Lagerung von Objekten
 - Experimente und Analysen
 - Verwaltung von Multimediaobjekten
- Druckoptionen: Reporte, Etiketten
- Erzeugung von Verbreitungskarten



Browser-basierte Schnittstellen mit DC-Daten, z. T. dynamischer Datenfluss

The screenshot displays three overlapping browser windows illustrating data integration and dynamic data flow:

- Top Window (Data Publisher - Staatliche ...):** Shows the CBIF.org interface for publishing data. It includes a search bar, a sidebar with 'Staatliche Naturwissenschaften Bayern' and 'Data publisher', and a main content area with a botanical specimen image and a map of Europe.
- Middle Window (BiNH Portal):** Displays the 'Bayernflora' portal. It features a map of Bavaria with a grid overlay, a sidebar with 'Results filtere' (Institution: M, Country: Afghanistan) and 'Additional Filter' (Scientific name, Genus, Country, Type status, Collector, Institution, Collection), and a 'Startseite' menu with various navigation options like 'Aktuelles', 'Veranstaltungen', and 'Datenerfassung'.
- Bottom Window (GFBio website - home):** Shows the GFBio search results page. It includes a search bar, a world map, and a list of search results for 'Gagea villosa (M. Bieb.) Sweet' and 'Helichrysum arenarium (L.) Moench'. Each result includes the Data Center (SNSB) and a summary link.

DiversityTaxonNames (DTN)

- 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 (DTN) software interface. The main window shows the taxonomic details for *Biatora sylvana* Korb. The interface is divided into several panels:

- Left Panel:** A list of related taxa, including *Biatora plicata* Fr., *Biatora poetschiana* Korb., *Biatora pontica* Printzen & Tansberg, *Biatora porphyroplaca* Hinteregger & Po., *Biatora porphyrospoda* Anzi, *Biatora propinquata* (Nyl.) Arnold, *Biatora pullata* Norman, *Biatora pyrcea* var. *saxicola* Hepp, *Biatora pyrrophialma* Mont., *Biatora rhododendri* (Hepp) Arnold, *Biatora rhodopis* Tuck., *Biatora rufidula* (Graewe) S. Ekman & P., *Biatora rufofusca* Anzi, *Biatora rugulosa* Hepp, *Biatora scorigena* (Müll. Arg.) Ramb., *Biatora scotopholis* Tuck., *Biatora similis* A. Massal., *Biatora sorendosa* Rambold, *Biatora sphaeroides* (Dicks.) Hornem., *Biatora sphaeroides* (Dicks.) Korb., *Biatora sphaeroidiza* (Vain.) Printzen & I., *Biatora straminea* Stenh., *Biatora subconcolor* Anzi, *Biatora subdiffusa* Arnold, *Biatora subduplex* (Nyl.) Printzen, and *Biatora subduplex* (Nyl.) Räsänen ex.
- Top Panel:** Taxonomic name details for *Biatora sylvana* Korb., including ID (1036334), Version (3), and various authentication fields.
- Center Panel:** Nomenclature and taxonomic reference information. The reference table shows a volume of 200, issue 3, published in 1855. The hierarchy shows the taxon's classification within the Ascomycota phylum.
- Right Panel:** Typification and synonymy information. It shows the reference as an isoelectotype (M-0061230) and lists synonyms, including *Lecania hyalina* (Fr.) R. Sant.
- Bottom Panel:** Synonymy overview and external data sources, listing various historical references for *Biatora sylvana* and related taxa.

Webdienste – DiversityTaxonNames

- Eine Reihe von DTN-Installationen am SNSB IT-Zentrum: intern und auf TNT Server „DWB Cloud“ stellen Inhalte bereit
- Inhalte über Web Services und GUIs bereitgestellt



									n.bailly@cgar.org
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 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 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



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 Basisinformation zu anerkannten Taxonnamen, Synonymen, Klassifikationen und deutsche Volksnamen für eine Anzahl von Tier-, Pilz- und Pflanzengruppen.

Browser-basierte Schnittstellen mit DTN-Daten, z.T. dynamischer Datenfluss

The image displays a browser-based interface for the LIAS (Lichenized and Non-Lichenized Ascomycetes) database. The main window shows a search form with fields for 'Name' (containing 'Lecano') and 'Epithet'. Below the form are checkboxes for 'Accepted names only' and 'Include non-nomenclatural names', along with 'Submit' and 'Reset' buttons. A 'Classification' section with a 'Browse' button is also visible. The background shows the LIAS website's header and navigation menu, including links for 'About' and 'Cooperating Websites'. A second browser window in the foreground shows the 'Catalogue of Life: 28th April 2016' details page for the LIAS database. This page includes a table of quality criteria: 'Umfang: Global', 'Vollständigkeit: 65%', and 'Vertrauenswürdigkeit der Checkliste: ★★★★★'. It also lists the 'Voller Name', 'Namensabkürzung', 'Version', 'Datum der Veröffentlichung', 'Autoren/ Editoren', and 'Taxonomische Abdeckung'. A 'Zusammenfassung' section provides a detailed overview of the database's purpose and data scope. At the bottom, there is a 'Global Species Database' logo and a footer with contact information for the Staatliche Naturwissenschaftliche Sammlungen Bayerns.

DTN Taxon Lists REST Web Service connected to the GFBio Terminology Server



Regionalised and Domain-specific Taxon Lists

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

[Home](#)[Content](#)[Developer Section](#)[Tools](#)[About](#)

CONTENT / EXTERNAL SERVICES

Web services connected to the Terminology Server

The following services have been integrated into the search [API](#):

- The Catalogue of Life: <http://cybertaxonomy.eu/cdmlib/rest-api-name-catalogue.html>
- The Integrated Taxonomic Information System (ITIS): http://www.itis.gov/web_service.html
- The World Register of Marine Species (WoRMS): <http://www.marinespecies.org/aphia.php?p=webservice>
- Fauna Europaea via PESI: <http://www.eu-nomen.eu/pesi/about-pesi>
- The GeoNames geographical database (Geonames): <http://www.geonames.org/export/web-services.html>
- The DWB REST Webservice for Taxon Lists (DTNtaxonlists): <http://services.snsb.info/DTNtaxonlists/rest/v0.1/static/api-doc.html>
- The Prokaryotic Nomenclature Up-to-Date Taxon list (PNU): <http://bacdive.dsmz.de/api/pnu/>

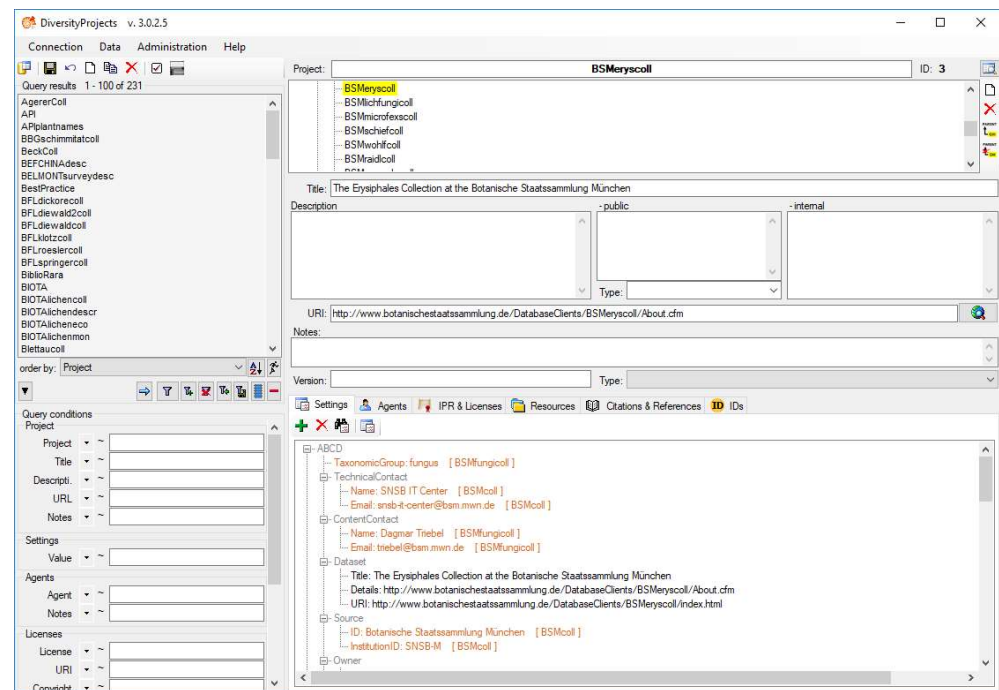


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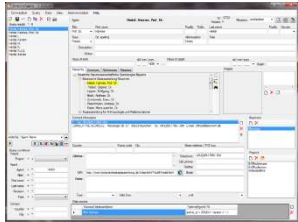
Imprint

DiversityProjects (DP)

- Management von Datenpaketen, Datensammlungen und Datenprojekten, verknüpfte Information, wie Titel, Lizenzen, Projekt-Mitarbeiter und Verantwortliche
- Management von Projekthierarchien, Projekt-Settings, Identifiers, e. g. URIs und DOIs
- Erstellung von Exportroutinen zur Publikation von Datenpaketen mit Zitaten, Zusammenfassungen, etc.

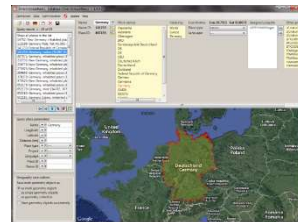


Terminologien, Referenzen, Vokabularien.....



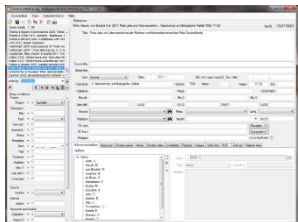
DiversityAgents

Management von Personen und Organisationen



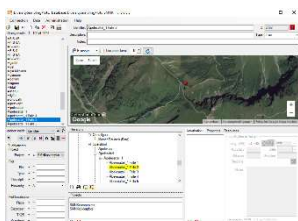
DiversityGazetteers

Management von geographischen Thesauri, oft mit Ortsbeschreibung und GIS Information



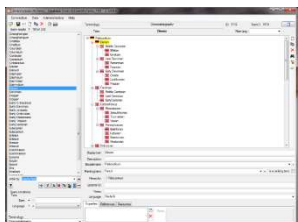
DiversityReferences

Management von Literaturreferenzen und Literaturdokumenten



DiversitySamplingPlots

Management von Beobachtungsgebieten und Untersuchungsflächen als Geobjekte, oft mit GIS Information und Hierarchien



DiversityScientificTerms

Management von Ontologien, Terminologien, Vokabularien ohne GIS Bezug, mit Hierarchien

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

- Erythroneura aclys McAtee
- Erythroneura acuticephala Robinson
- Erythroneura amanda McAtee
- Erythroneura ancora Beamer
- Erythroneura anfracta Beamer
- Erythroneura aza Robinson
- Erythroneura bakeri Dmitriev & Dietric
- Erythroneura beameri Robinson
- Erythroneura bidens McAtee
- Erythroneura bistrata McAtee
- Erythroneura browni Dmitriev & Dietri
- Erythroneura caetra McAtee
- Erythroneura calycula McAtee
- Erythroneura cancellata McAtee
- Erythroneura carinata Dmitriev & Diet
- Erythroneura coloradensis Gillette

ordnen nach: Description

Suchkriterien

Description

Title ~

Project Erythroneura

Descriptor

Categoric. =

Quantitati. =

Text =

Data status = +

Scope

Taxon =

Geography =

Specimen =

Observati. =

Reference =

Other =

Description: Erythroneura aclys McAtee DB key: 868

Main attributes Descriptor view Continuous view Resource links

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)

Categorical states

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.uuc.edu/dmitriev/images/aclys1.gif

Not to be recorded

- Not applicable

? Data unavailable

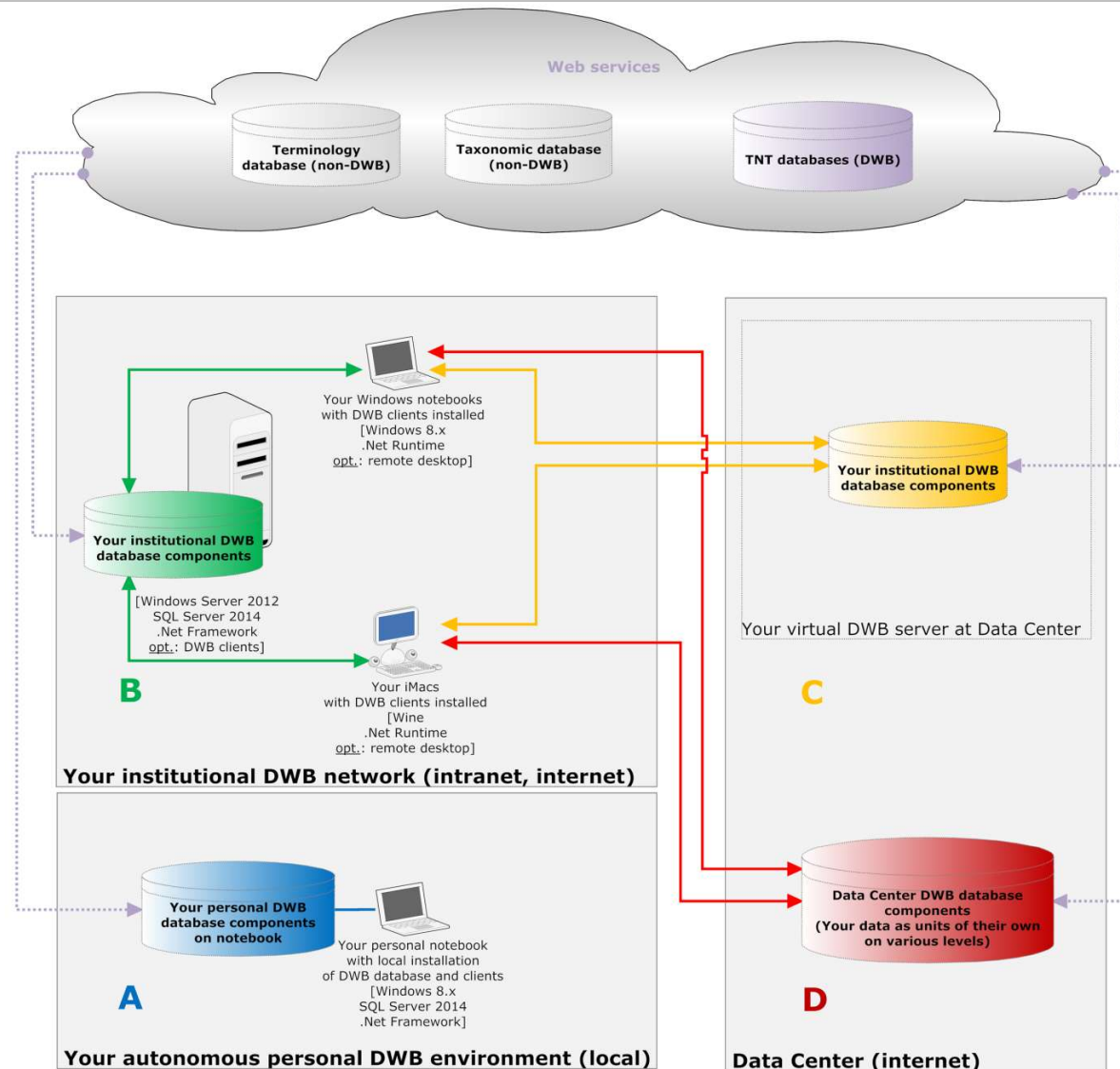
Not interpretable

\$ Data withheld

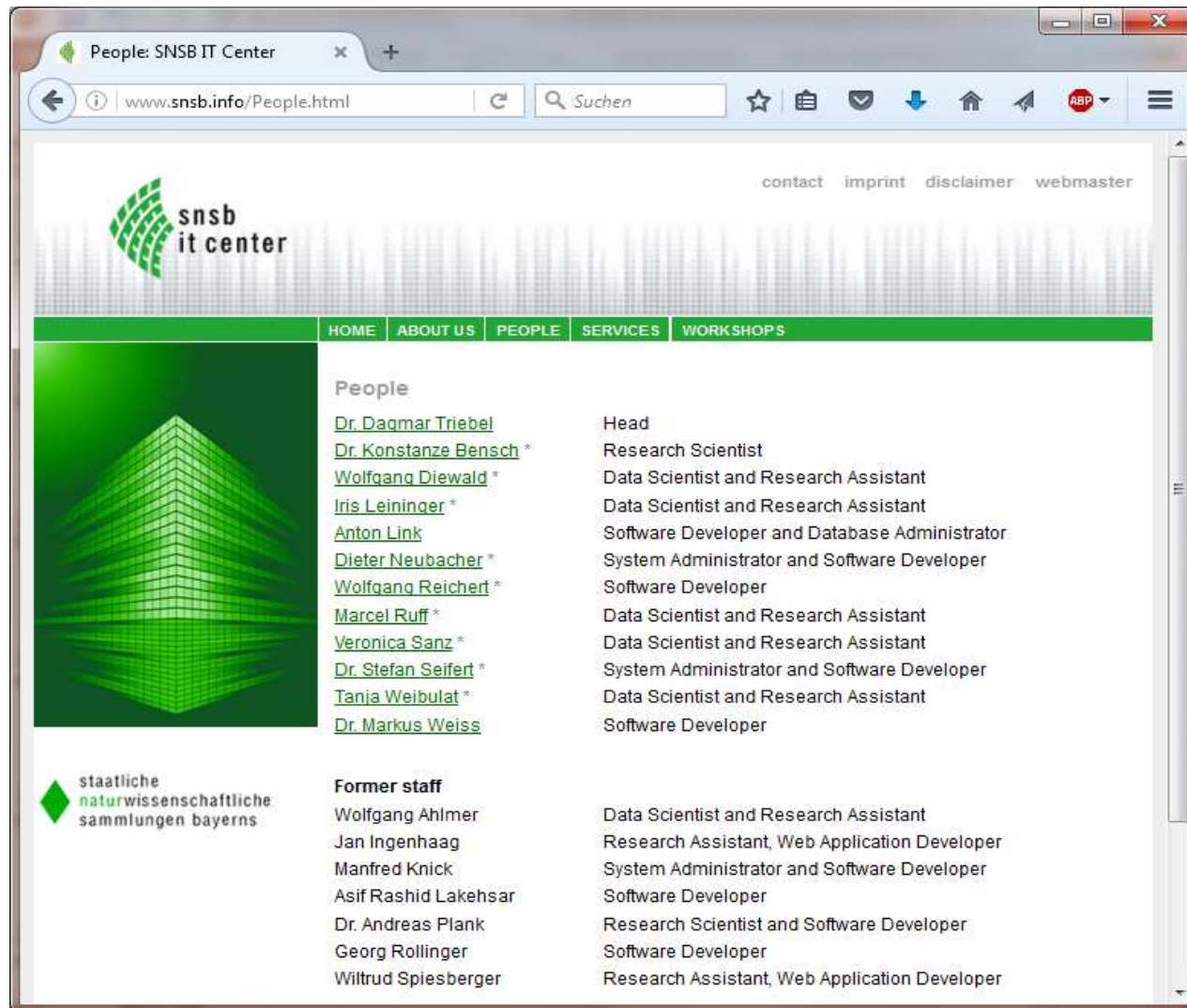
0 Missing data

Edit description

DWB – Alternativen der Installation



SNSB IT Center



People: SNSB IT Center

www.snsb.info/People.html

contact imprint disclaimer webmaster

snsb it center

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People

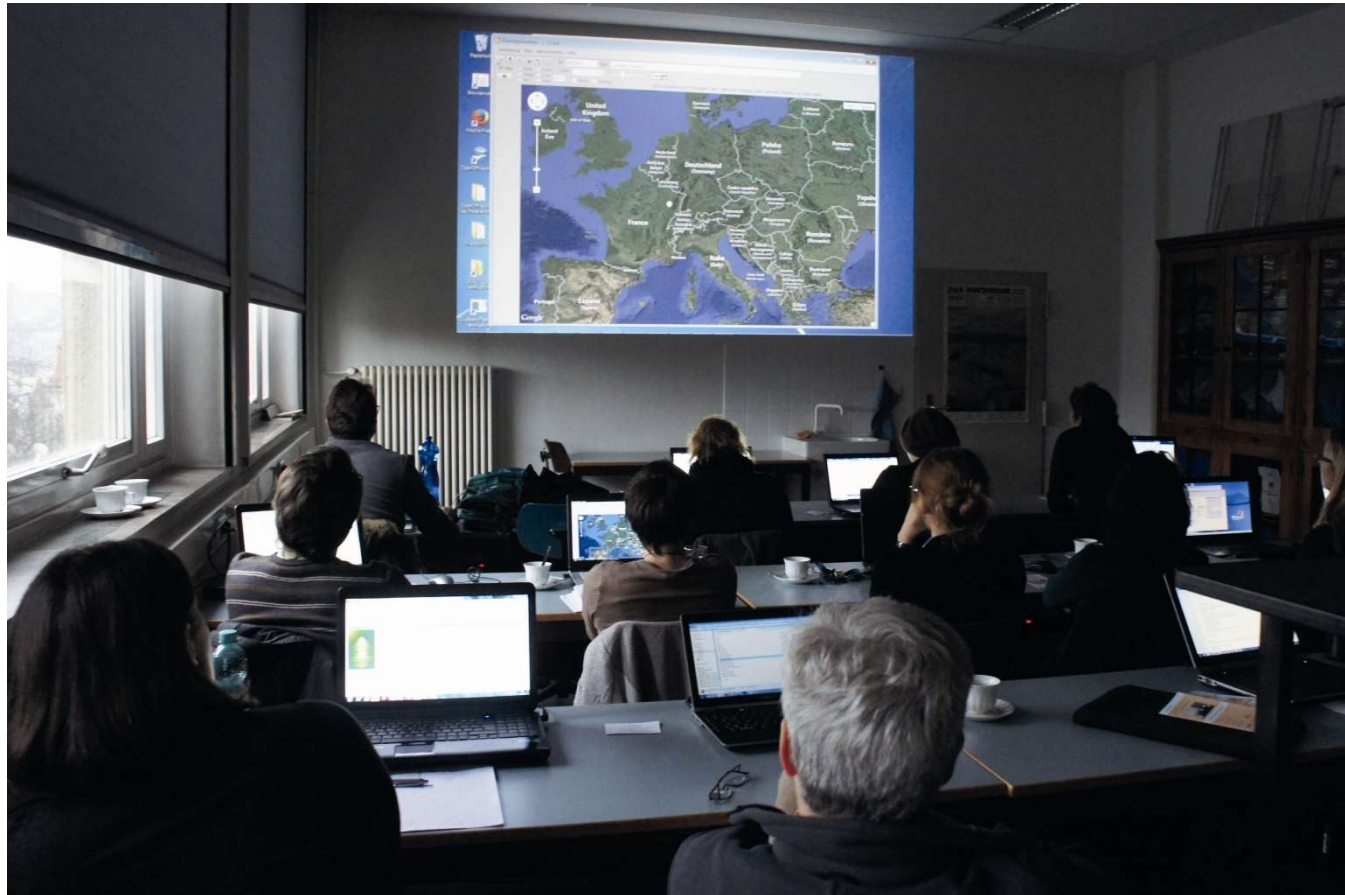
Dr. Dagmar Triebel	Head
Dr. Konstanze Bensch *	Research Scientist
Wolfgang Diewald *	Data Scientist and Research Assistant
Iris Leininger *	Data Scientist and Research Assistant
Anton Link	Software Developer and Database Administrator
Dieter Neubacher *	System Administrator and Software Developer
Wolfgang Reicherl *	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

staatliche naturwissenschaftliche sammlungen bayerns

DWB Workshop am 26. Oktober 2017



http://www.snsb.info/SNSBInfoOpenWiki/Wiki.jsp?page=DivWorkbenchWorkshop_33