



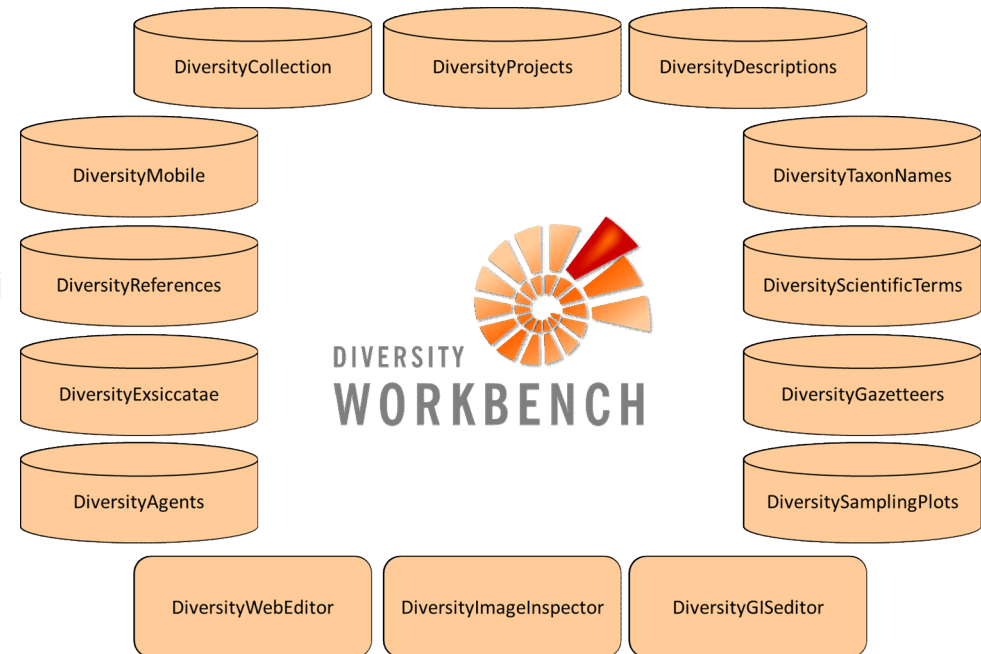
# Diversity Workbench

## Einführung

Dagmar Triebel

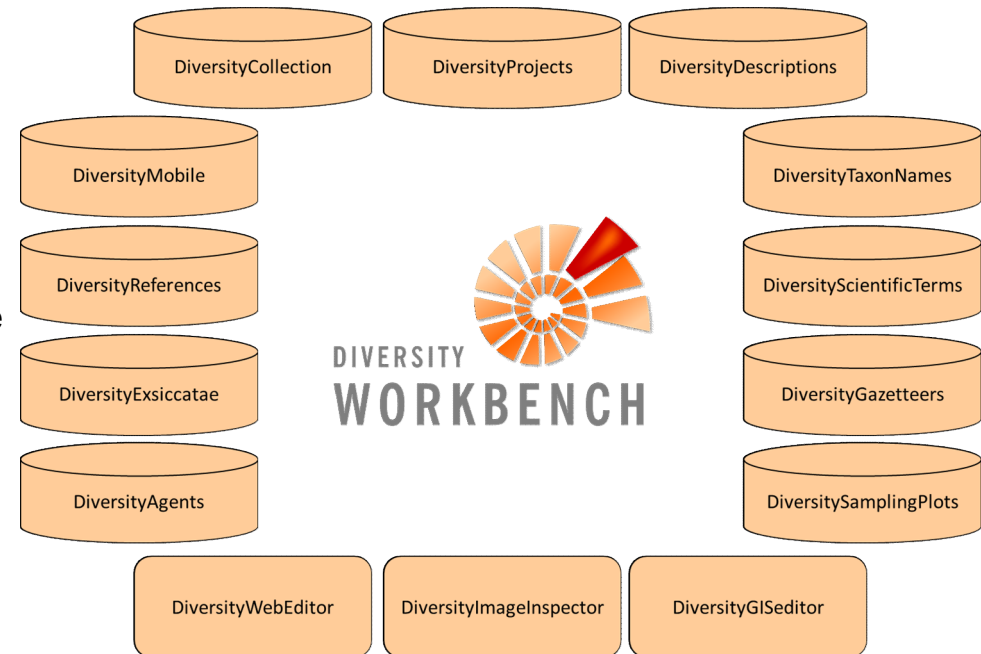
# DWB – System aus SQL-Datenbanken

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



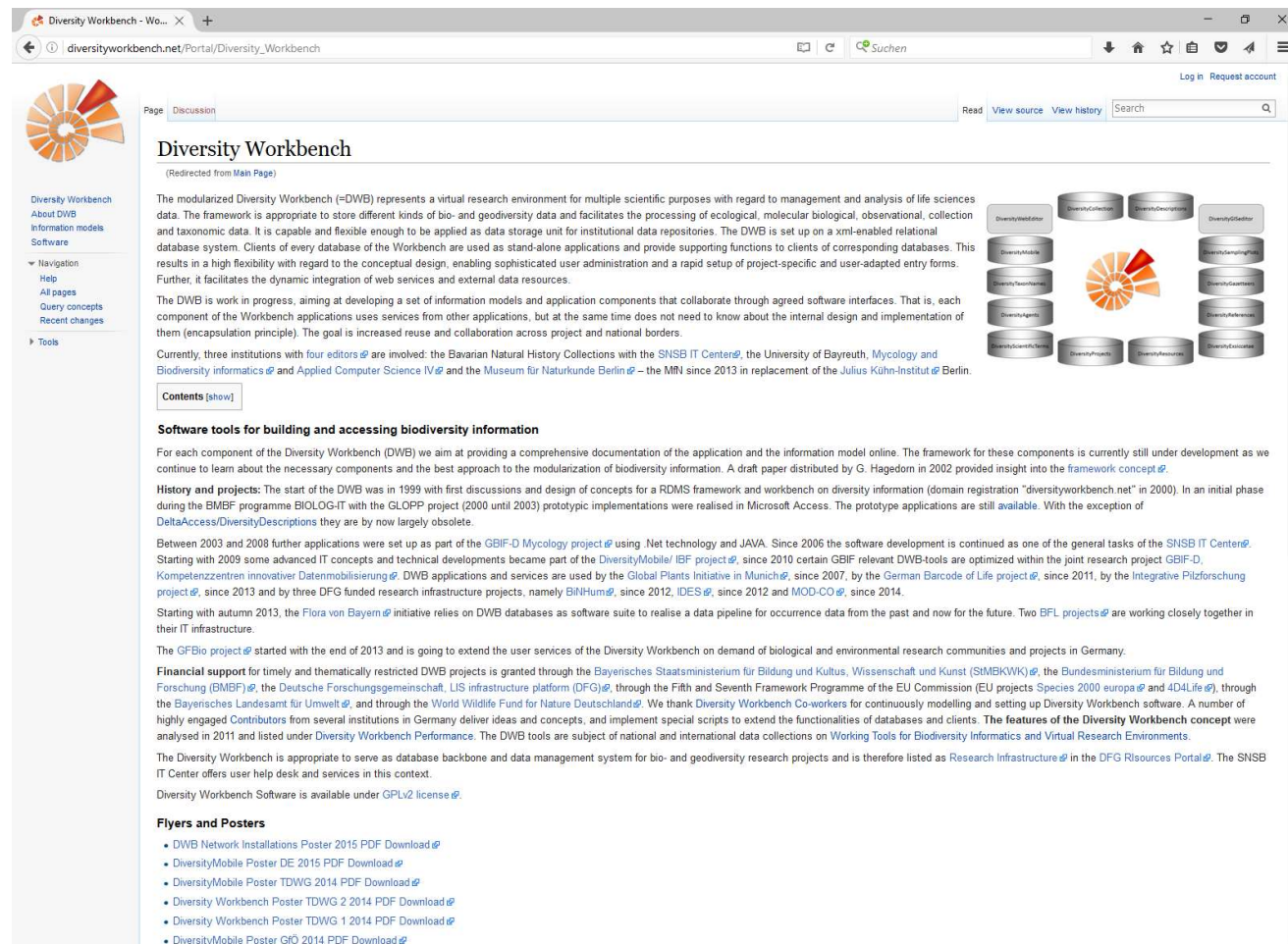
# DWB – System aus SQL-Datenbanken

- 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](http://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 section titled "Software tools for building and accessing biodiversity information". This section discusses the development of the DWB framework, its initial phase in 2000, and subsequent updates and integrations with other projects and infrastructure. It mentions the use of .NET technology and JAVA, and the involvement of various research projects and funding sources like the BMBF, DFG, and EU Commission. The page concludes with a "Flyers and Posters" section listing several PDF documents available for download.

# DWB – Dokumentation online

- Technische Dokumentation

## Technical documentation for the core applications and rich clients

<b>Name of the database framework</b>	<a href="#">Diversity Workbench (DWB)</a>
<b>DWB contact persons</b>	T. Weibulat, D. Triebel at the <a href="#">SNSB IT Center</a> 
<b>Operating system server</b>	MS Windows Server 2008 R2, 2012 R2
<b>Database system</b>	MS SQL-Server 2008 R2 to <a href="#">MS SQL-Server 2014</a> 
<b>Clients</b>	C# desktop applications (local clients) (and web APIs for various projects)
<b>Operating system local clients</b>	MS Windows XP (not recommended), MS Windows 7 to MS Windows 10
<b>GIS functionalities</b>	<a href="#">GIS-Editor</a> , management of geometry and geography data
<b>GUIs for data import</b>	Import-Wizards, txt, CSV, xml in various schemes, xml/xslt, shapes in ESRI-Format
<b>GUIs for data export/ reports</b>	Export-Wizards, txt, CSV, xml in various schemes, xml/xslt, shapes in ESRI-Format
<b>GUI language</b>	default: english (multilingual through translation tables)
<b>Open access</b>	<a href="#">DWB software download</a>
<b>Open source</b>	<a href="#">DWB SVN code repository</a>  , <a href="#">DiversityMobile GitHub repository</a> 
<b>Licenses</b>	GPL v.2
<b>Information models online</b>	<a href="#">DWB data models</a>
<b>State of development</b>	since 1999, ongoing
<b>Code language, developer platform</b>	C#, .Net Framework 3.5
<b>User manuals</b>	under <a href="#">DWB user manuals</a> and with the download of the respective applications in the <a href="#">DWB Wiki</a>
<b>Training</b>	<a href="#">DWB workshops</a>  for users and database administrators since 2007





# DWB – Dokumentation online

- Download von (Client-)Software: Beta-Versionen und offizielle Releases

<http://diversityworkbench.net/Portal/Software>

## 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 thesaurus [Manual: Identification, Organism](#)
- 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, transactions did not appear in multilabelprint [OK \(C. Monje\)](#)
- 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: Customize](#)
- 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: Module related entry](#)
- 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](#)



[Inhaltsverzeichnis \[Anzeigen\]](#)

[Technical documentation at a glance](#)

[General Download Notes](#)

[How to create a personal local DWB environment](#)

[Diversity Workbench core applications, databases and rich clients](#)

Regular software releases are available *for download* under the respective application.

- DiversityAgents – **Last Version:** April, 2018
- DiversityCollection – **Last Version:** April, 2018
- DiversityDescriptions – **Last Version:** February, 2018
- DiversityExsiccatae – **Last Version:** April, 2018
- DiversityGazetteers – **Last Version:** March, 2018
- DiversityGisEditor – **Last Version:** March, 2018
- DiversityImageInspector – **Last Version:** October, 2017
- DiversityMobile – **Last Version:** March, 2015
- DiversityProjects – **Last Version:** April, 2018
- DiversityReferences – **Last Version:** April, 2018
- DiversityResources
- DiversitySamplingPlots – **Last Version:** March, 2018
- DiversityScientificTerms – **Last Version:** April, 2018
- DiversityTaxonNames – **Last Version:** April, 2018

# 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

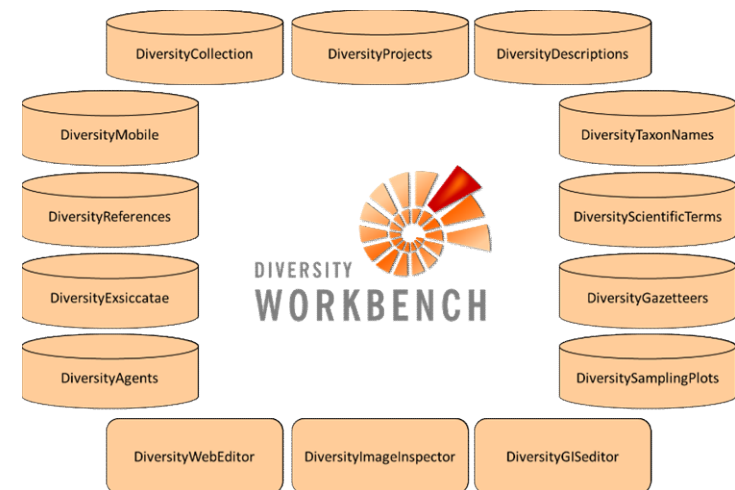
The image shows two overlapping browser windows. The top window displays the Subversion repository for DiversityWorkbench at `svn.snsb.info/repos/DiversityWorkbench`. The page title is "DiversityWorkbench: Developer Tools - Subversion". The main content area shows a directory listing for the "/trunk" path, including a "[Parent Directory]" link and various subdirectories such as "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 page title is "Staatliche Naturwissenschaftliche Sammlungen Bayerns". The main content area displays a list of repositories, including "DWB-Contrib", "DiversityMobile2", "DiversityMobile", "DiversityService", and "DiversityAPI". Each repository entry includes a brief description, the programming language used, and the number of stars and forks. For example, "DiversityMobile2" is a "Prototype of a cross-platform application using the Diversity REST API" written in "JavaScript" with 0 stars and 0 forks.

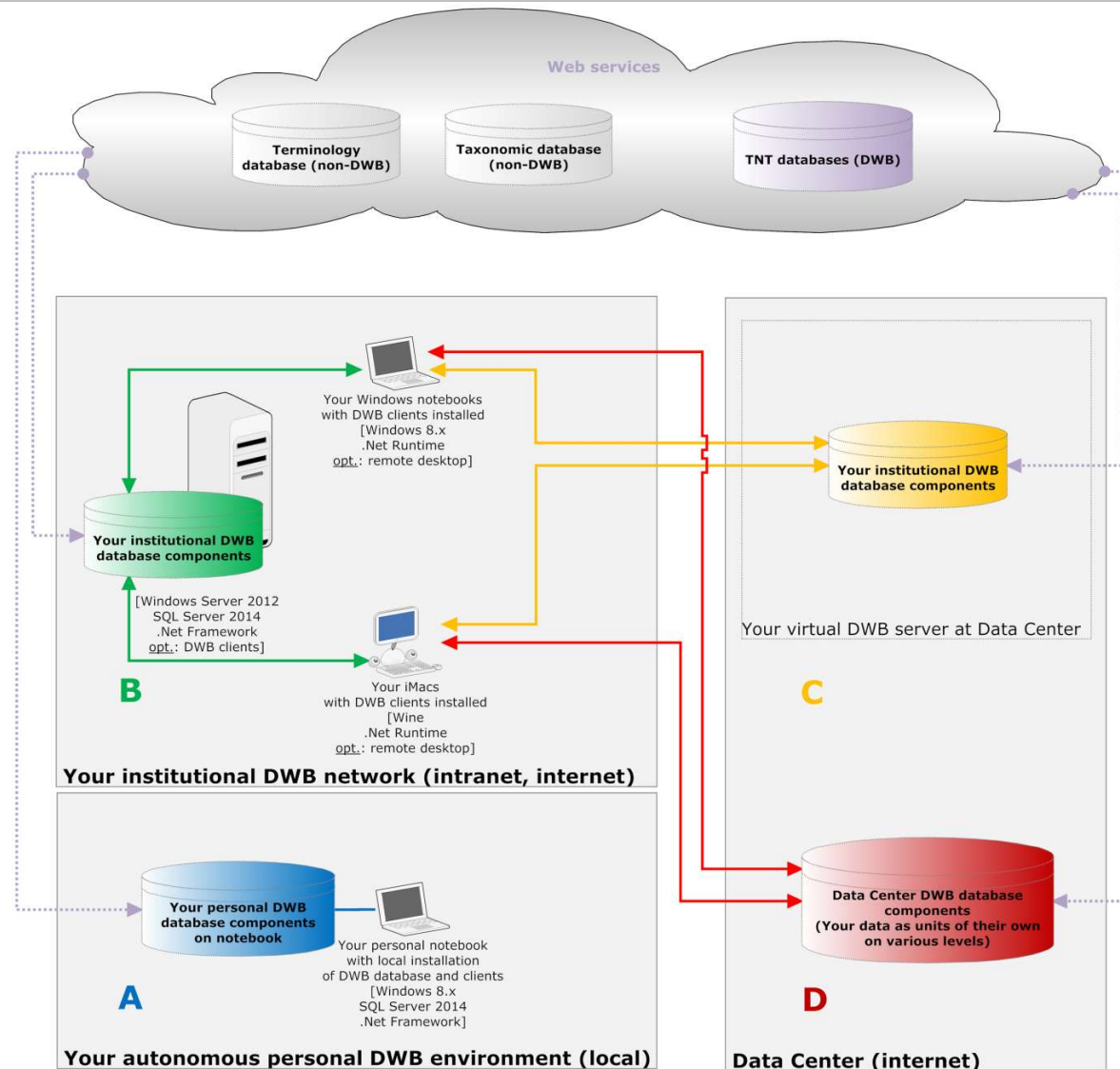


# Anzahl der DWB-Anwender mit DB-Installationen (soweit bekannt)

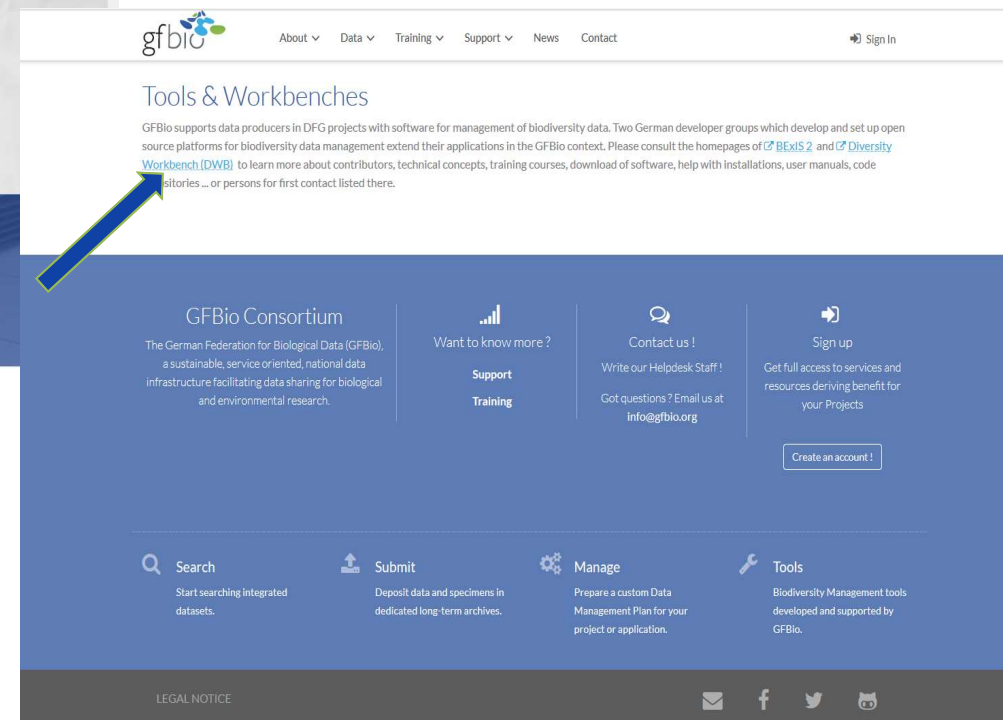
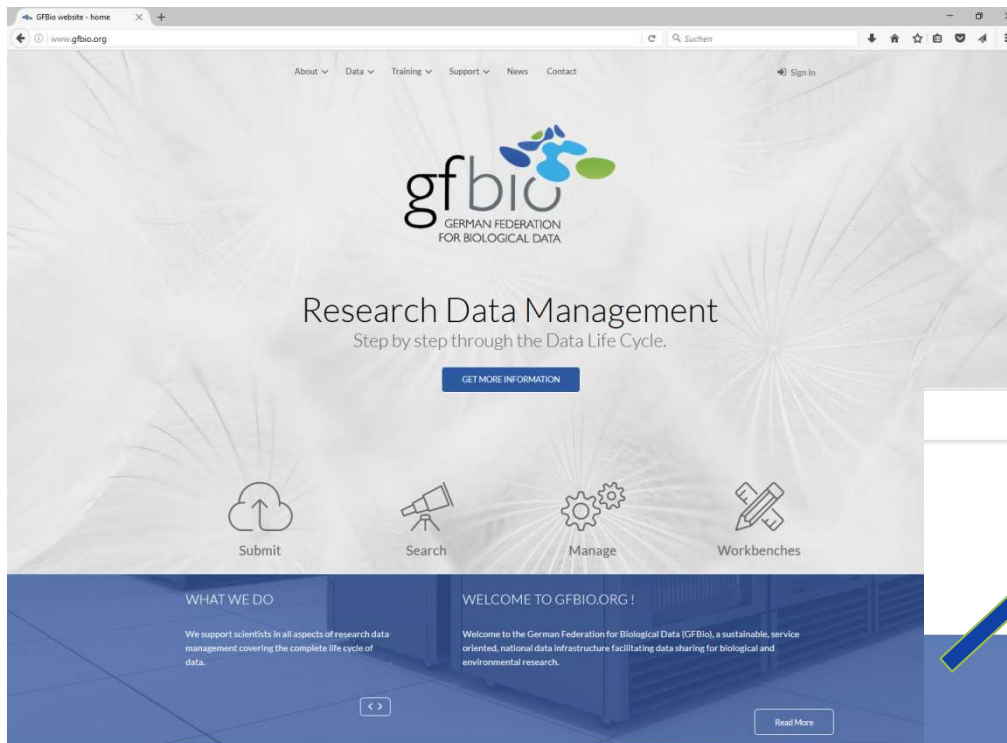
- Installationen an den SNSB inkl. ZSM  
(diverse VM und Instanzen; inkl. Datenbank(DB)-Hosting  
für rund 25 Partnerorganisationen; v.a. Universitäten) z. Zt. 200 Anwender
- Installationen am ZFMK z. Zt. 50 Anwender
- Installationen am SMNK z. Zt. 20 Anwender
- Installationen am SMNS z. Zt. 25 Anwender
- Weitere Installationen ? > 50 Anwender



# DWB – Alternativen der Installation



# DFG und GFBio: DWB empfohlen



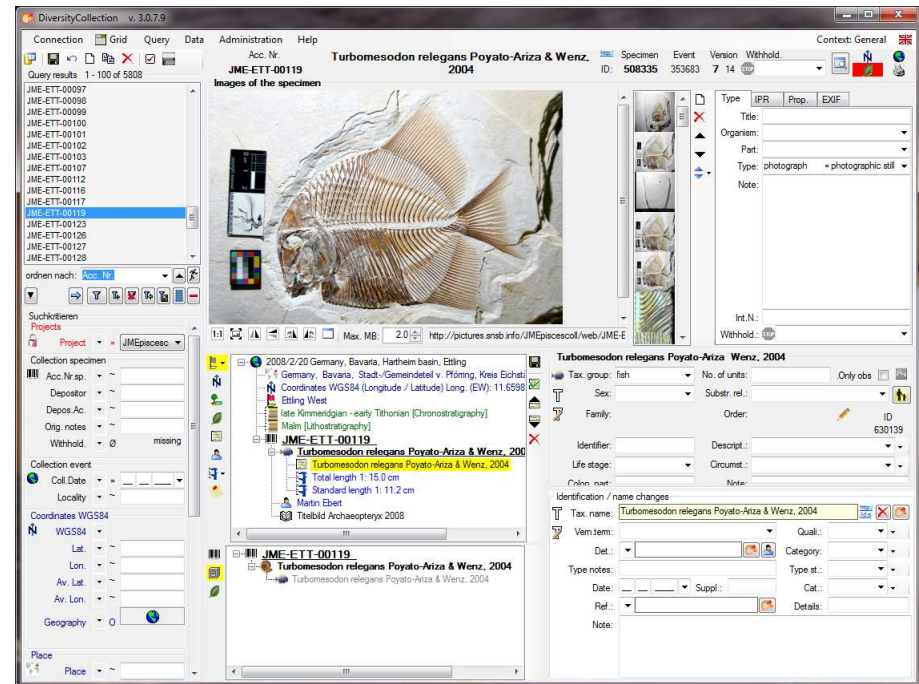
# Diversity Workbench – Schnittstellen zum Datenmanagement

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. 3.0.3.6:** Shows a list of specimens with columns for Accession number, Collection year, Country, and Locality. A table of specimens is visible, including entries like SAPM-MA-00129 through SAPM-MA-00152.
- DiversityScientificTerms v. 3.0.0.0:** A hierarchical tree view of scientific terms, with 'Indusium' selected. It includes fields for Term, Description, Broader term, Ranking term, Hierarchy, External ID, and Notes.
- DiversityAgents v. 3.0.0.3:** A window for managing agents, showing details for 'Hertel, Hannes, Prof. Dr.' including title, given name, and affiliation.
- DiversityTaxonNames, Database: DiversityTaxonNames\_Fungi v. 3.0.1.5:** A detailed view of a taxonomic entry for *Biatora sylvana* Korb. It includes fields for Taxonomic name, Rank, Nomenclature, Taxonomic reference, and a list of synonyms.

# 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 image displays three overlapping browser windows illustrating data integration and dynamic data flow:

- Top Window (Data Publisher - Staatliche ...):** Shows the GBIF.org interface for a data publisher, with the URL `www.gbif.org/publisher/9674aab-47d1-11d8-9534-bda93-56a862`.
- Middle Window (BINHum Portal):** Displays the BINHum Portal interface for the Bayerflora dataset. It includes a search bar, filters (Institution: M, Country: Afghanistan), and a map of Europe. A table of data points is visible, with columns numbered 19 to 48 and values ranging from 54 to 58. A red circle highlights the "Data Download" link.
- Bottom Window (GFBio website - home):** Shows the GFBio search results for "spiders SMNS". The search results include a "Data set: The Spider Collection at the Staatliches Museum für Naturkunde Stuttgart" and a "Multimedia Object - Data Description" link, both highlighted with red circles. A photograph of a spider is also visible.

# DC-Daten im GFBio VAT Tool



<https://www.gfbio.org/data/visualizeandanalyze>



# 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 taxonomic items (101-152 of 152) with a search bar and filters. The selected item is *Biatora sylvana* Korb.
- Top Panel:** Taxonomic name details, including the name, species epithet, and authority (Korb). It also shows the rank (species) and other identifiers.
- Middle Panel:** Nomenclature and taxonomic reference information. It includes a table for taxonomic references with columns for Volume, Issue, Pages, Details, D. M. Y. of P., and Suppl. The reference for *Biatora sylvana* Korb is listed as 200, 1855.
- Right Panel:** Typification and synonymy information. It shows the typification (isolecotype M-0061230) and a list of synonyms, including *Lecania hyalina* (Fr.) R. Sant.
- Bottom Panel:** Synonymy overview and external data sources. It provides a list of related taxa and their references, such as *Lecania hyalina* (Fr.) R. Sant. in Santesson, Moberg, Nordlin, Tansberg & Vitikainen, Lichen-Fomina und Lichericolous Fungi of Fennoscandia: 145 (2004).



# 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 search form are options for 'Accepted names only' and 'Include non-nomenclatural names'. A 'Classification' section is also visible.

Overlaid on this is a window from the 'Catalogue of Life: LIAS' showing a detailed record for the database. The record includes the following information:

- 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, Mycolobiales; Fungi - Ascomycota - Dothideomycetes - Arthopyrenia, Eopyrenula, Lichenothelia, Mycoporum, Leptorhaphis, Naetrocyrmba, Tomasella, Peridiothelia, Pseudopyrenula, Cyrtidula, Cystocoleus, Kirschsteiniothelia, 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., Dreli T., Nicolson D., Kurcz T., Fiala C., Bally C., Kirk P., Bourgon T., DeWalt R.E., Decock W., De Wever A., eds). Digital resource at [www.catalogueoflife.org/col](http://www.catalogueoflife.org/col). Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-8858.

At the bottom of the Catalogue of Life window, there is a table of 'Datenbank Qualitätskriterien' (Database Quality Criteria):

Umfang:	Global
Vollständigkeit:	65%
Vertrauenswürdigkeit der Checkliste:	★★★★☆

Additional text at the bottom of the Catalogue of Life window includes: 'Annual Checklist Interface v1.9 r2126a80 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.'

Global Species Database



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



## 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](#)

[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](#):

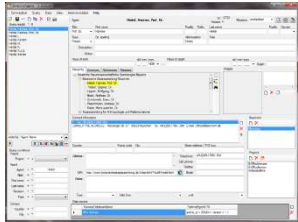
- The Catalogue of Life: <http://cybertaxonomy.eu/cdmlib/rest-api-name-catalogue.html>
- The Integrated Taxonomic Information System (ITIS): [http://www.itis.gov/web\\_service.html](http://www.itis.gov/web_service.html)
- The World Register of Marine Species (WoRMS): <http://www.marinespecies.org/aphia.php?p=webservice>
- 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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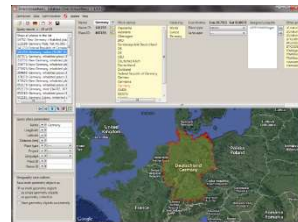
Imprint

# Terminologien, Referenzen, Vokabularien.....



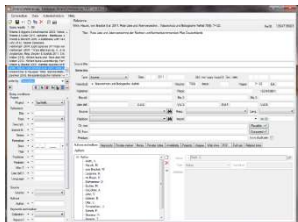
## DiversityAgents

Management von Personen und Organisationen



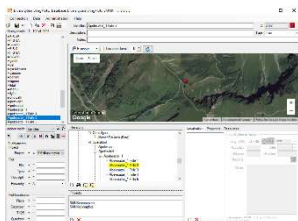
## DiversityGazetteers

Management von geographischen Thesauri, oft mit Ortsbeschreibung und GIS Information



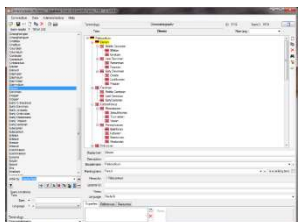
## DiversityReferences

Management von Literaturreferenzen und Literaturdokumenten



## DiversitySamplingPlots

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

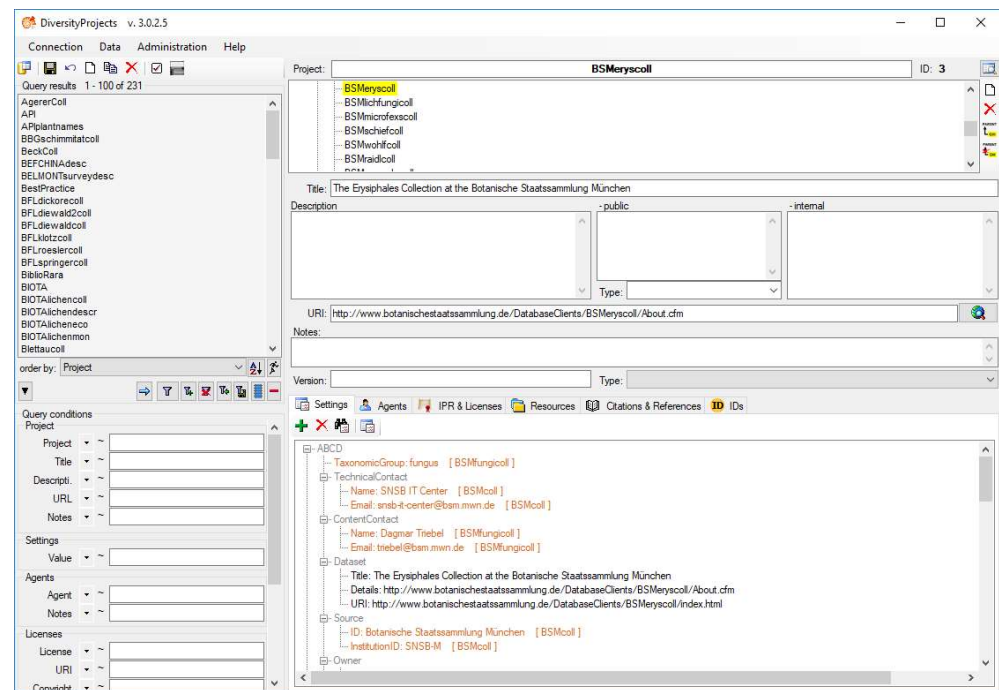


## DiversityScientificTerms

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

# DiversityProjects (DP)

- Management von Datenpaketen, Datensammlungen und Datenprojekten, verknüpfte Information, wie Titel, Projektbeschreibungen, Lizenzen, key words, 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.



# DWB und GFBio

- GFBio Submission und DiversityProjects
- DWB Management und Cache-Datenbanken

1. Describe your Dataset

Title\*  
Provide a short, descriptive title for your dataset.

Description\*  
Provide a summary of the work you did to produce the dataset (similar to an article abstract).

Study Type\*  
Select the type of sequencing in your dataset. Choose 'Other' if you are not sure.

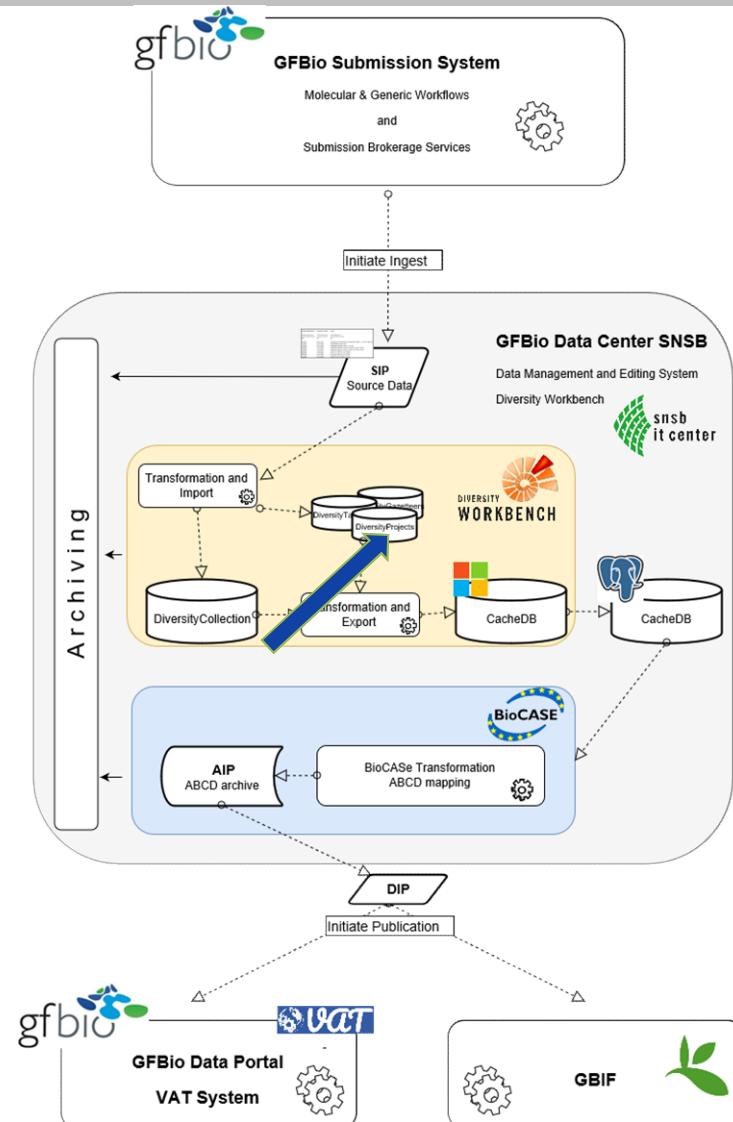
Please select a study-type ...

Data URL  
Provide an URL where we can access your sequence data. If you leave this field blank, you can upload your sequence files in the next step (after clicking 'Start Submission').

2. Describe your samples and sequencing procedure

Provide information about your samples and experimental setup. Please Download our empty CSV-template, fill it out and use the upload button below to add it to this submission.

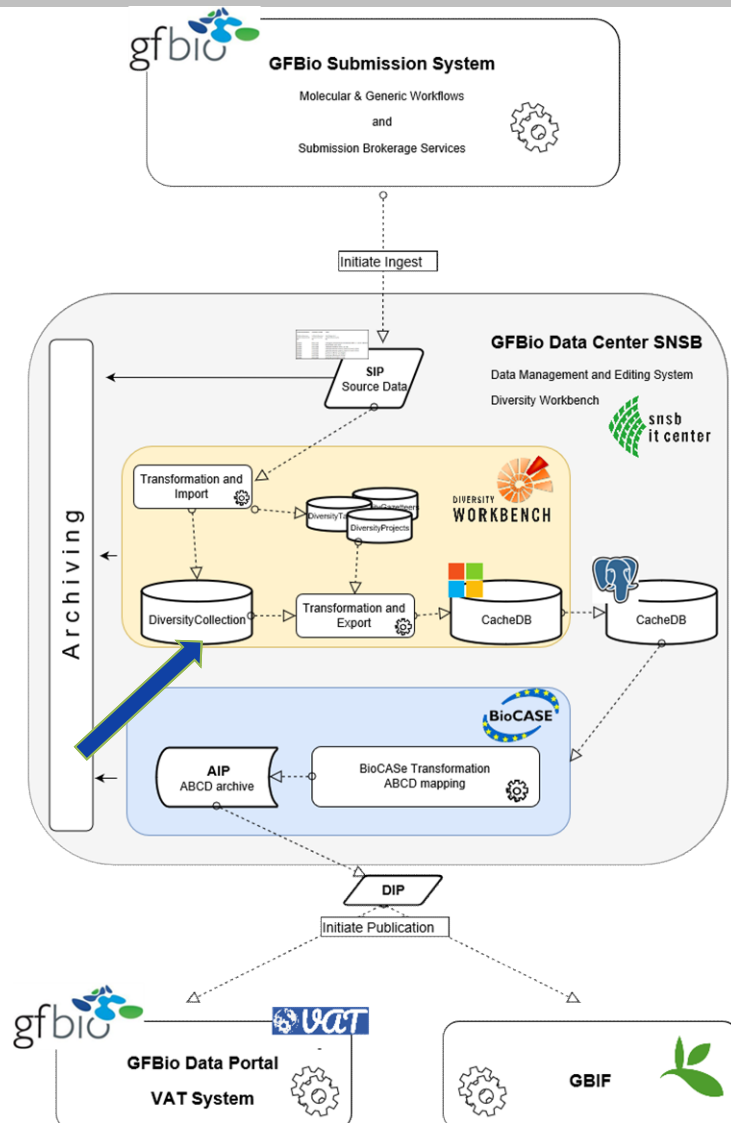
3. Let's go



# DWB und GFBio

- Datenpublikation über Transformation und Export – CacheDB
- DiversityCollection oder DiversityDescriptions als zentrales Modul zur Erzeugung eines DIPs

Cache database			
Projects published via the cache database and the current postgres database			
DiversityCollection_Monitoring	DiversityCollectionCache01_Monitoring	DiversityCollectionCache_IBForthoptercoll on 10.153.18.210.5432 as Weibulat	Packages
<b>IBFfungicoll</b> 64 datasets Last update: 2017-10-05 12:28:43 3 datasets withheld	NOTHING PLANNED 61 datasets Last transfer: 2017-11-08 18:33:36 Version 25	Not established	
<b>IBFgatticoll</b> 494 datasets Last update: 2017-10-05 12:58:48 139 datasets withheld	NOTHING PLANNED 285 datasets Last transfer: 2017-11-08 18:37:50 Version 25	Not established	
<b>IBFlichencoll</b> 164 datasets Last update: 2017-10-05 12:26:20 0 datasets withheld	NOTHING PLANNED 164 datasets Last transfer: 2017-11-08 18:40:31 Version 25	Not established	
<b>IBForthoptercoll</b> 36 datasets Last update:	NOTHING PLANNED 36 datasets Last transfer: Version 25	Not established	
<b>IBFplantcoll</b> 197399 datasets Last update: 2017-07-14 15:59:09 962 datasets withheld	NOTHING PLANNED 196437 datasets Last transfer: 2017-11-10 11:48:28 Version 25	Not established	





# 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

# Arbeitsplan heute

## 34. Diversity Workbench Workshop am IT-Zentrum der SNSB ↗

Thema: DWB Werkzeuge für ökologisch arbeitende Forschungsgruppen und -projekte

- Verwaltung von forschungsprojekt- und datensammlungs-bezogenen (Meta-)Daten mit **DiversityProjects**, Integration in GFBio Daten-Pipelines
- Projektarbeit und Datenerhebung im Gelände, verschiedene Workflows, a) mit **DiversityImageInspector**, b) mit **DiversityMobile**
- Projektarbeit und Management von ökologischen Traitdaten und phylogenetischen Merkmalsdaten mit **DiversityDescriptions**
- Projektarbeit und Datenmanagement im Labor mit **DiversityDescriptions**
- **DiversityDescriptions** als Werkzeug zur Entwicklung und Verwaltung von komplex strukturierten Konzept-Schemata

Im Workshop werden Szenarien mit Bezug zu [GFBio](#) ↗, [MOD-CO](#) ↗ und [ARAMOB](#) ↗ adressiert.

An der Organisation und Durchführung des Workshops beteiligtes Team

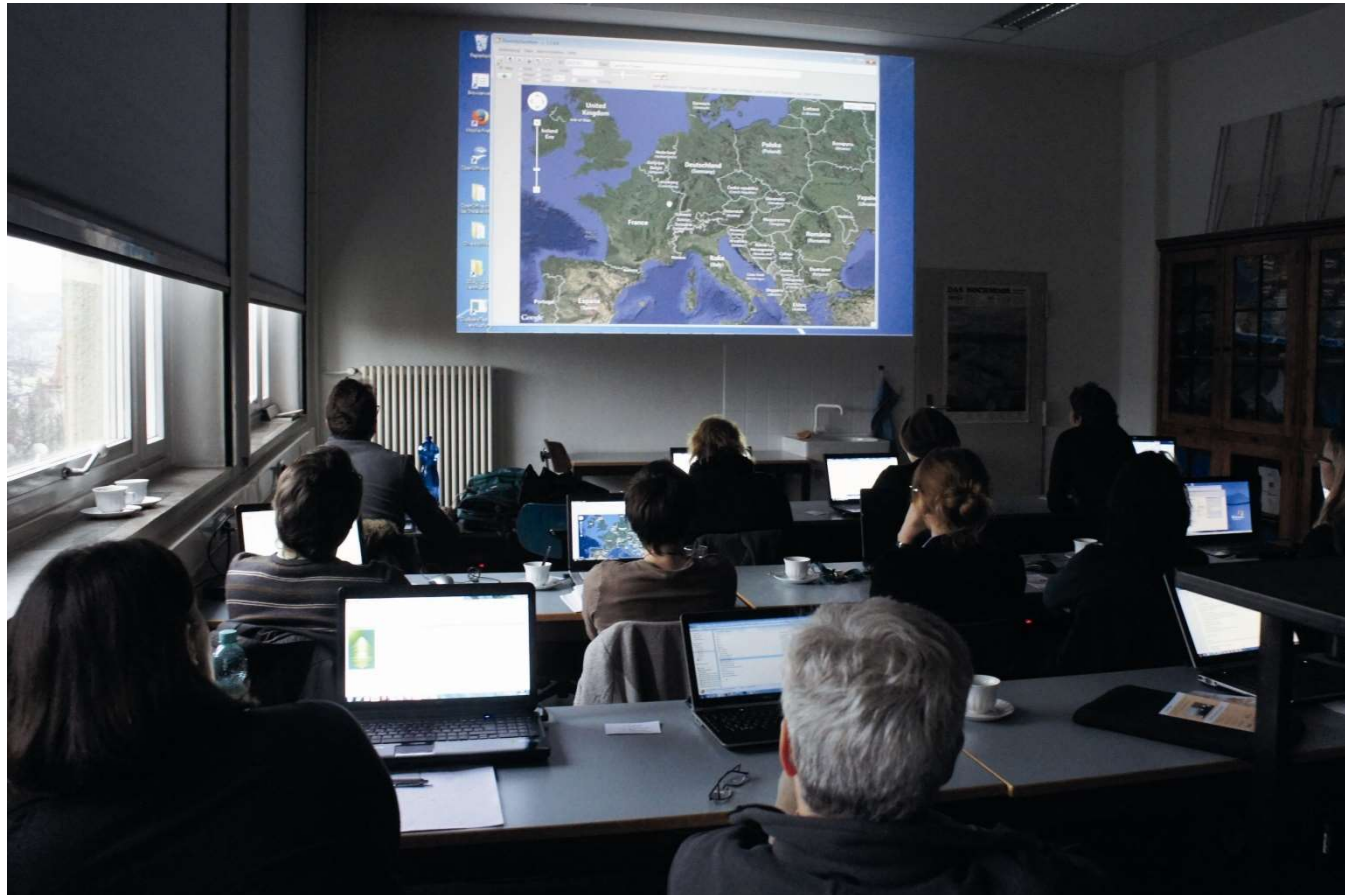
- aus München: [Dagmar Triebel](#) ↗, [Anton Link](#) ↗, [Wolfgang Reichert](#) ↗, [Tanja Weibulat](#) ↗, [Markus Weiss](#) ↗
- aus Bayreuth, UBT, Abt. Mykologie: [Jan Harjes](#) ↗, [Daniel Osieko Okach](#) ↗
- aus Karlsruhe, Museum für Naturkunde [Florian Raub](#) ↗
- aus Stuttgart, Museum für Naturkunde, Abt. Entomologie [Ingo Wendt](#) ↗

# Arbeitsplan heute

- 10.00 Uhr *Diversity Workbench* – Einführung (D. Triebel)
- 10.30 Uhr Einführung in und Arbeiten mit *DiversityProjects* (=DP), Verwaltung von forschungsprojekt- und datensammlungs-bezogenen (Meta-)Daten; Vorbereitung von Datenpaketen (mit (Meta-)Daten aus *DiversityProjects*, *DiversityCollection* und anderen DWB-Modulen) für die Integration in GFBio Pipelines zur Datenpublikation (T. Weibulat, M. Weiss)
- 11.30 Uhr Vorstellung von *DiversityImageInspector* (W. Reichert, D. Osieko Okach)
- 12.00 Uhr *Möglichkeiten mobiler Datenerfassung mit der DWB*, mit Schwerpunkt auf *DiversityMobile* (T. Weibulat)
- 12.30 Uhr Mittagspause
- 13.15 Uhr *DiversityDescriptions* Einführung (A. Link)
  - Konzept und Grundfunktionen
  - Demo von Import- und Export-Möglichkeiten
  - Beispiele aus Trainingsumgebung
- 14.30 Uhr *DiversityDescriptions*: Projektarbeit und Management von phylogenetischen Merkmalsdaten, Artbeschreibungen, interaktive Schlüssel, Publikationen (I. Wendt)
- 15.00 Uhr Kaffeepause
- 15.30 Uhr *DiversityDescriptions*: Projektarbeit und Management von ökologischen Traitdaten, Interaktion mit anderen DWB-Modulen (F. Raub)
- 16.00 Uhr *DiversityDescriptions*: Werkzeug zur Entwicklung und Verwaltung von komplex strukturierten Konzept-Schemata (J. Harjes, A. Link)
- 16.25 Uhr *DiversityDescriptions*: Projektarbeit und Datenmanagement im Labor (J. Harjes, A. Link)
- 16.45 Uhr Diskussion
- 17.00 Uhr Ende



# DWB Workshop am 26. April 2018



[http://www.snsb.info/SNSBInfoOpenWiki/Wiki.jsp?page=DivWorkbenchWorkshop\\_34](http://www.snsb.info/SNSBInfoOpenWiki/Wiki.jsp?page=DivWorkbenchWorkshop_34)