

DWB auf dem Weg: Taxonomische Interoperabilität und Autonomie

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SNSB 
Botanische
Staatssammlung
München

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DWB – DiversityTaxonNames (DTN)

- Software-Anwendung der DWB zum Management von Taxa, Konzepten von Taxa und Klassifikationen
- SQL Database und .Net Rich client
- DTN Taxonomien sind Teil der DWB Netzwerke in jeweils eigener Funktion



LIAS names

- 52.000 Namen, eigenes Synonymie-Konzept (unabhängig von IF, Mycobank), ICN konform, online Portal
- Global Species Database - GSD (Species 2000)
- Anwender: v.a. LIASlight, DNK und Herbar M, Typifizierung

The screenshot displays the LIAS database interface for the taxon *Aspicilia cervinocuprea* Arnold. The interface includes a search bar at the top with the taxon name and a URL. Below the search bar, there are several sections: 'Taxonomic name' with fields for Genus/supragen., Species epithet, and Author; 'Nomenclature' with fields for Code, Status, and Creation type; 'Taxonomic reference / Protologue' with a table of references; 'Hierarchy' showing the taxonomic classification; 'Typification' with fields for Reference, Typification, and Substrate; 'Synonymy' with a list of synonyms; and 'External data sources' with a list of external references. The interface also includes a left sidebar with a tree view of taxonomic groups and a bottom section for 'Query conditions' and 'Project'.

Volume	Issue	Pages	Details	D.	M.	Y. of P.	Suppl.
25		357				1876	

Reference	Typification	Substrate	Notes
Reference for typification 1	holotype (M-0204927)		M-0204927

Synonymy overview

- Aspicilia cervinocuprea* Arnold, Verh. K. K. Zool.-Bot. Ges. Wien. 26: 357 (1876)
- Lecanora cervinocuprea* (Arnold) Mig., Fl. Deutschl. Abt. 2 12: 233&241 (1926)
- Semilecanora cervinocuprea* (Arnold) Motyka, Porosty Rodzina Lecanoraceae 2: 286 (1996); nom. inval.

Tax. Referenzliste Gefäßpflanzen Bayern

- 13.900 Namen, eigenes regionales Synonymie-Konzept, Checkliste
- BFL + BIB Referenz, Referenz für RL Bayern
- Anwender: v.a. Bayernflora Citizen Science, BIB Datenportal, LfU

The screenshot displays the DiversityTaxonNames database interface for the taxon *Abies alba* Mill. The interface is divided into several sections:

- Query results:** A list of 13900 taxonomic names, with *Abies alba* Mill. selected.
- Taxon details:** Shows the taxonomic name *Abies alba* Mill., genus *Abies*, species epithet *alba*, and author *Bas. auth.: Mill.*
- Nomenclature:** Displays the code *Botany (incl. Mycology)* and the status.
- Taxonomic reference / Protologue:** Includes fields for Volume, Issue, Pages, and Details.
- Hierarchy:** Shows the taxonomic hierarchy: Tracheophyta | Spermatophyta | Coniferophytina | Pinopsida | Pinaceae | *Abies* Mill. | *Abies alba* Mill.
- Synonymy overview:** Lists external names and their corresponding database names, such as *9PH001500* (Bayerisches Landesamt für Umwelt) and *254247* (BOLD-ID).
- Typification:** Provides information on the type specimen, including reference, typification, and locality.
- Synonymy:** Lists synonyms for *Abies alba* Mill., such as *Anmerkungen aus Kommentierte Artenliste 2014: V 64, BayAtlas 81*.

Fossile Fische aus dem Mesozoikum, Jura, Thethys

- 1.400 Namen, eigenes Synonymie-Konzept, Ref. Standardwerk
- Typifizierung, Stratigraphie
- Anwender: SNSB-JME, Sammlung

The screenshot displays the DiversityTaxonNames database interface for the taxon *Acanthorhina jaekeli* Fraas, 1910. The interface is divided into several panels:

- Left Panel:** A list of query results for 'Acanthorhina Fraas, 1910'. The entry for *Acanthorhina jaekeli* Fraas, 1910 is selected and highlighted in blue. Below the list are query conditions for Project (SNSBname), Taxonomic name (Name, Genus, Species), CreationTy., Rank, Status, Authors (Bas. auth., Comb. auth.), and Revision (Level).
- Top Panel:** Taxon details for 'Acanthorhina jaekeli Fraas, 1910'. It includes fields for Taxonomic name (Genus/supragen., Species epithet), Rank (species), and Nomenclature (Code: Zoology, Status, Creation type, Comment).
- Typification Panel:** Shows the reference 'Fraas 1910. Chimärenreste aus dem oberen Lias von Holz... Jahrest...' and the typification 'holotype (SMNS-P-012579)'. It also lists the substrate 'Germany, Baden-Württemb.' and the specimen number 'Sp. notes: SMNS-P-012579'.
- Hierarchy Panel:** A tree view showing the taxonomic classification: Chordata | Chondrichthys | Subterbranchialia | Holocephali | Chimaerifc. The path leads to *Acanthorhina jaekeli* Fraas, 1910.
- Synonymy Panel:** Lists synonyms, including 'TaxRef SNSB-JME Pisces Jurassic Tethys' and 'Acanthorhina jaekeli Fraas, 1910'.

Interoperabilität DWB Cloud (TNT)

- TNT Services aufrufbar und nutzbar über andere DWB Module in allen Installationen
- Rund 60 Listen
- 150.000 Namen, z.T. langfristig kuratiert, z.T. wichtiger TaxRef-Backbone (z.B. BFL für 15 Mio Verbreitungsdaten)

DWB cloud services

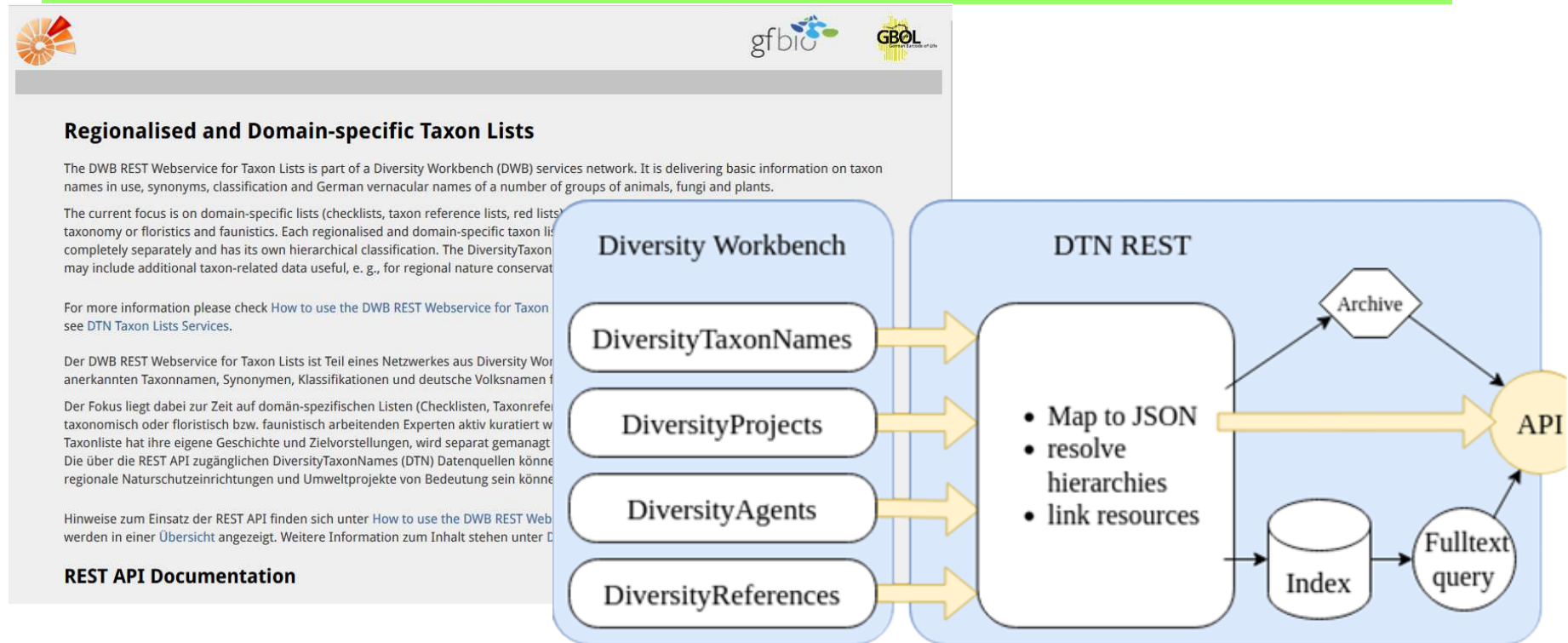
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Interoperabilität DTN REST Webservice

- Maschinenlesbar, REST API
- Rund 60 Listen
- 150.000 Namen, z.T. langfristig kuratiert, z.T. wichtiger TaxRef-Backbone (z.B. BFL für 15 Mio Verbreitungsdaten)



Interoperabilität GFBio Terminologies Service

- Maschinenlesbar, REST API
- Rund 60 Listen
- 150.000 Namen, z.T. langfristig kuratiert, z.T. wichtiger TaxRef-Backbone (z.B. BFL für 15 Mio Verbreitungsdaten)

gfbio

HOME BROWSE SEARCH API WIDGETS FAQ ABOUT

Terminologies

In the GFBio Terminology Service, we have included so far the below listed terminologies, mainly from the context of the GFBio project. To explore a terminology, click simply on its name. Metadata information about the selected terminology will be displayed. For internally hosted terminologies, we provide additionally a tree-view of its hierarchy.

Name	Description
Biological Collections Ontology (BCO)	The biological collection ontology includes consideration of the distinctions between individuals, organisms, voucher specimens, lots, and samples the relations between these entities, and processes governing the creation and use of "samples". Within scope as well are properties including collector, location, time, storage environment, containers, institution, and collection identifiers.

The lithologs ontology for igneous rocks provides SKOSified information on the classification of igneous rocks extracted from the IUGS recommendations published by Le Maitre (ed.)(2002): Igneous rocks: a classification and glossary of terms

National Center for Biotechnology Information (NCBI) Organismal Classification (NCBITAXON)
The NCBI Taxonomy Database is a curated classification and nomenclature for all of the organisms in the public sequence databases.

Regionalised and Domain-specific Taxon Lists (DTNtaxonlists_SNSB)
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. For more information please check the Overview on Published Lists (<http://services.snsb.info/DTNtaxonlists/rest/v0.1/>) and the REST-API documentation (<http://services.snsb.info/DTNtaxonlists/rest/v0.1/static/api-doc.html>).

Catalogue Of Life (COL)
The Catalogue of Life is the most comprehensive and authoritative global index of species currently available. It consists of a single integrated species checklist and taxonomic hierarchy. The Catalogue holds essential information on the names, relationships and distributions of over 1.7 million species. This figure continues to rise as information is compiled

Interoperabilität GBIF Checklist Publikation

- Checklist Dataset Publikation mit DOI
- 32 Datasets bisher publiziert

INSTALLATION

DiversityTaxonNames Server

Installation type: Http installation
Hosted by: [Staatliche Naturwissenschaftliche Sammlungen Bayerns](#)
Registered: November 4, 2015

32 DATASETS

Taxon list of Araneae from Germany compiled in the context of the GBOL project	Checklist dataset
http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_Araneae_from_Germany_compiled_in_the_context_of_the_GBOL_project%22	
1,647 records	
Taxon list of Hymenoptera from Germany compiled in the context of the GBOL project	Checklist dataset
http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_Hymenoptera_from_Germany_compiled_in_the_context_of_the_GBOL_project%22	
11,471 records	
Taxon list of Orthoptera (Grashoppers) from Germany compiled at the SNSB	Checklist dataset
http://www.diversitymobile.net/wiki/About_the_%22Taxon_list_of_Orthoptera_(Grashoppers)_from_Germany_compiled_at_the_SNSB%22	
208 records	

Interoperabilität GBIF Checklist Publikation

- Beispiel Fossile Fische aus dem Jura, Tethys
- Abgleich mit GBIF Backbone
- Abgleich mit CoL

CHECKLIST DATASET | REGISTERED NOVEMBER 4, 2015

Taxon list of Jurassic Pisces of the Tethys Palaeo-Environment compiled at the SNSB-JME

Published by [Staatliche Naturwissenschaftliche Sammlungen Bayerns](#)
Martin Ebert

1,383 RECORDS

DATASET TAXONOMY METRICS DOWNLOAD HOME PAGE

http://www.diversitymobile.net/wiki/About_Taxon_list_of_Jurassic_Pisces_of_the_Tethys_Palaeo-Environment_compiled_at_the_SNSB-JME

Metadata last modified: November 29, 2020
Hosted by: Staatliche Naturwissenschaftliche Sammlungen Bayerns
License: CC BY 4.0
How to cite DOI 10.15468/hofire

736 Accepted names	647 Synonyms
72% Overlap with GBIF Backbone	2% Overlap with Catalogue of Life

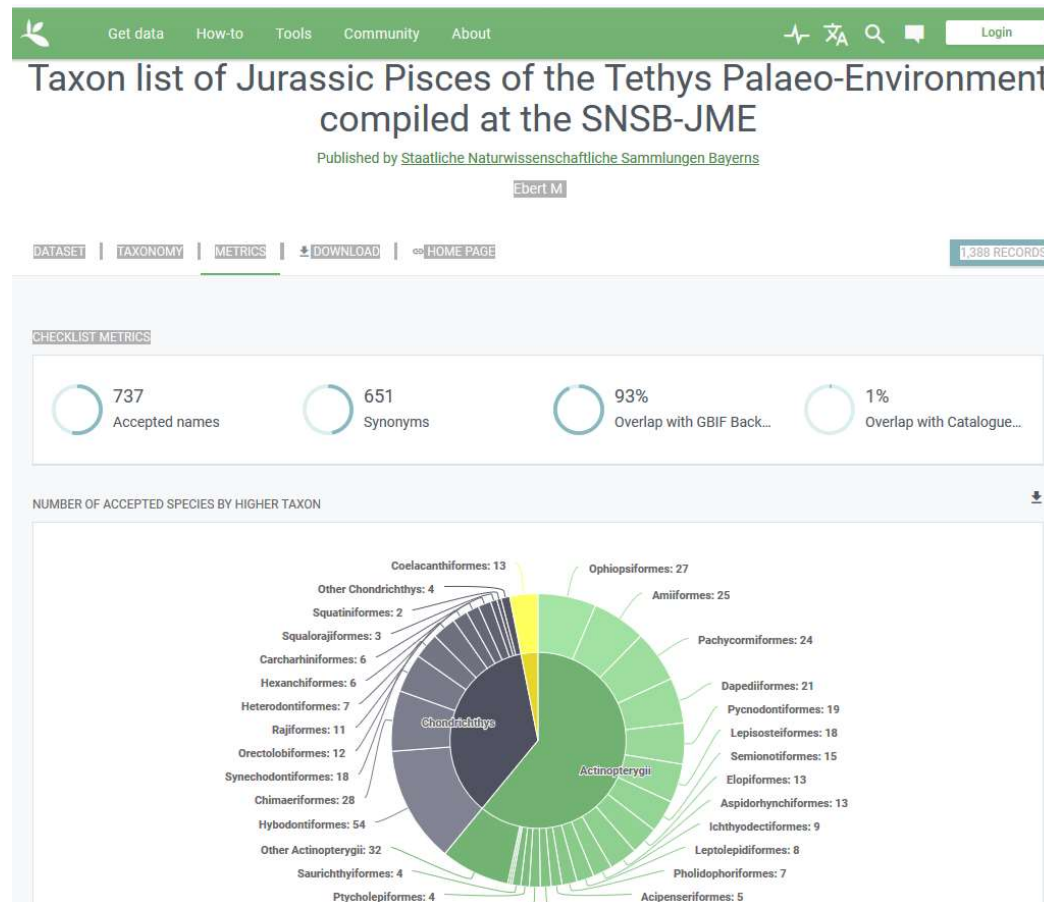
Description

http://www.diversitymobile.net/wiki/About_Taxon_list_of_Jurassic_Pisces_of_the_Tethys_Palaeo-Environment_compiled_at_the_SNSB-JME

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Interoperabilität GBIF Checklist Publikation

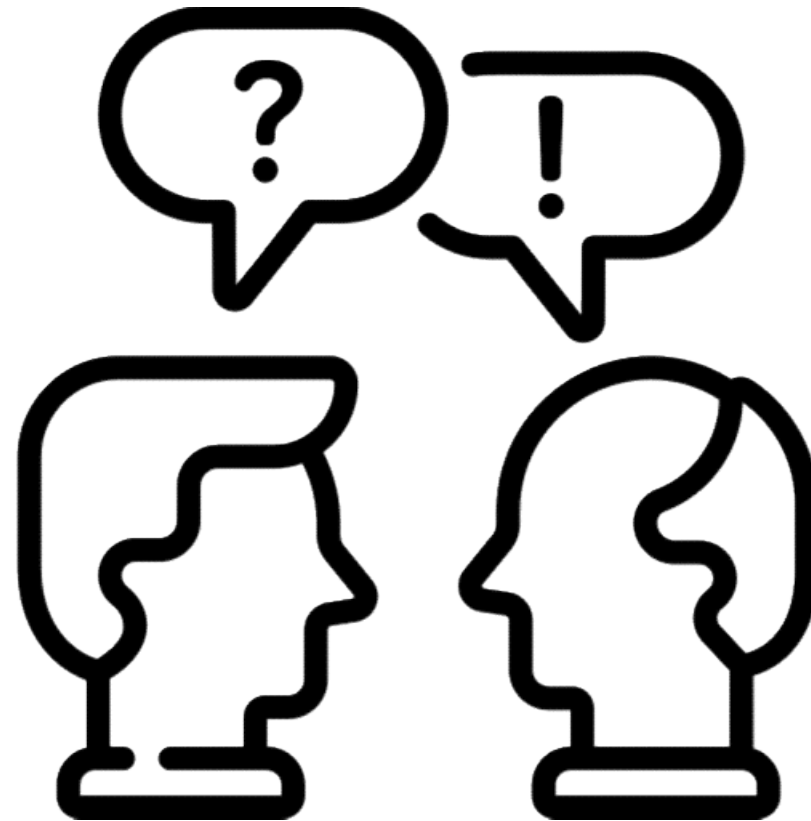
- Analyse des Datenbestandes



Autonomie und Zielgruppen

- Wann ist eine „eigene“ DTN Liste sinnvoll?
- Zielgruppe der Liste?
 - Taxonomische Forschung? Revision einer tax. Gruppe?
 - Checkliste? Land? Kleine Region?
 - Naturschutzrelevante Infos? RL?
 - Für kleine taxonomische Gruppe?
 - Intern im DWB Netzwerk? Freigeben?
- Wer übernimmt die Datenpflege? Längerfristig?

Diskussion



Flavicon.com