



Diversity Workbench

Software zum Management von Biodiversitätsdaten

Markus Weiss



Diversity Workbench

www.diversityworkbench.net

Entwicklung seit 1999



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Diversity Workbench

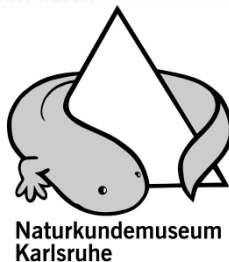
(Redirected from [Main Page](#))

The Diversity Workbench (DWB) is work in progress, aiming at developing a set of information models and application components that collaborate through agreed software interfaces and services from other applications, but at the same time does not need to know about the internal design and implementation of them (encapsulation principle). The goal is to create a common framework for biodiversity information.

Currently, three institutions with four partners/ editors are involved: the Bavarian Natural History Collections with the [SNSB IT Center](#), the University of Bayreuth, [DNA-Analyse](#) and the [Julius-Kühn Institut](#) Berlin.

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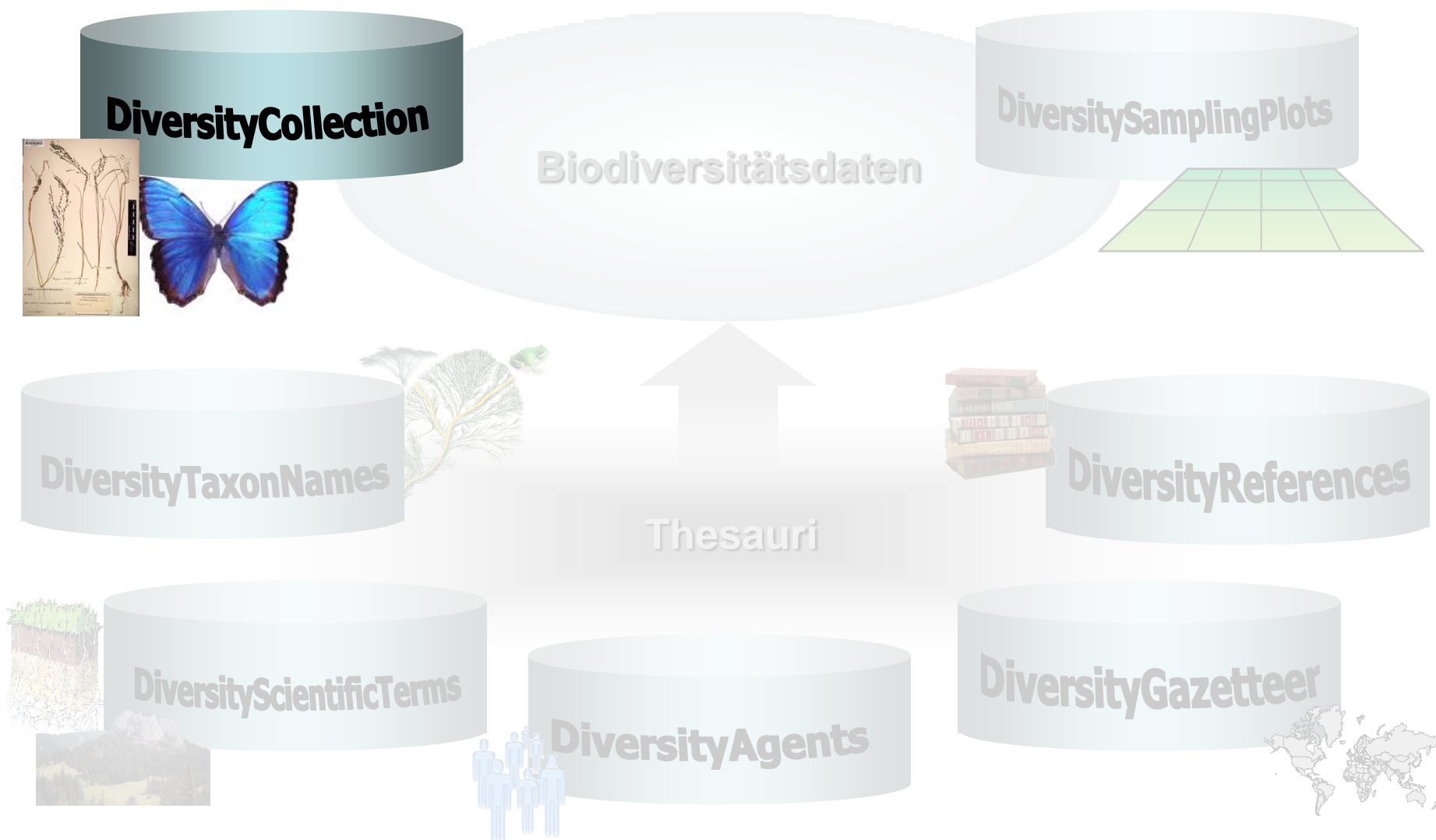
- 1 Diversity Workbench – Software tools for building and accessing biodiversity information
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 - 4 Diversity Workbench related workshops
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Module der Diversity Workbench

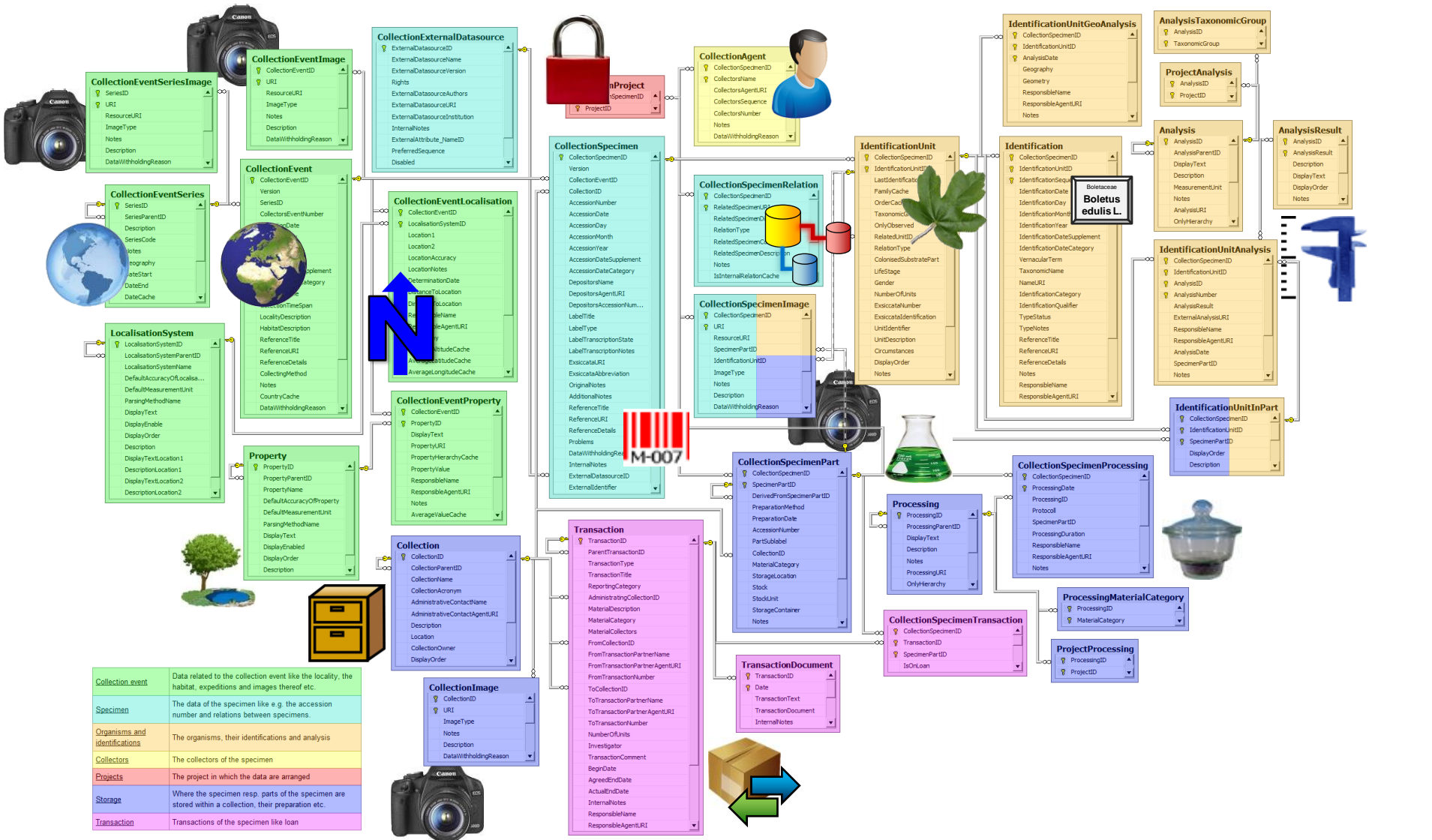
www.diversityworkbench.net





DiversityCollection - ER-Diagramm

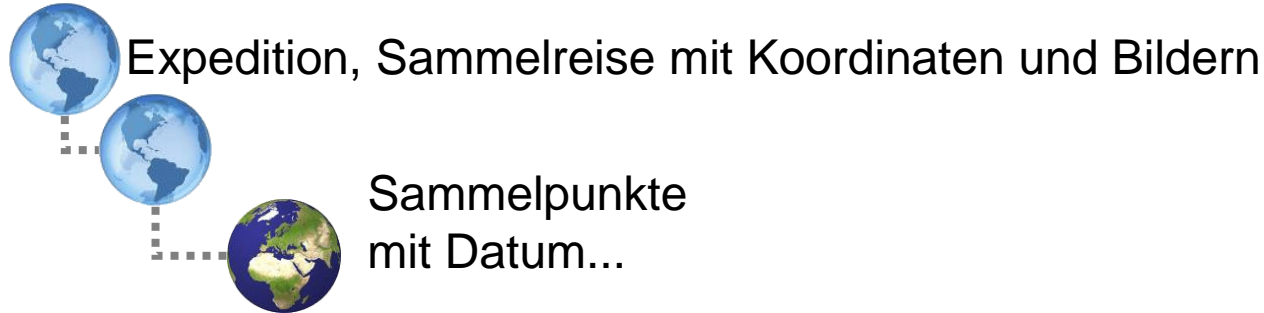
www.diversityworkbench.net





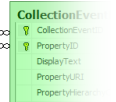
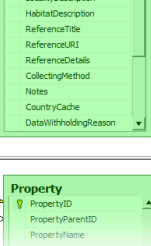
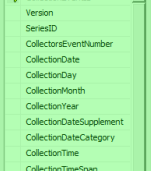
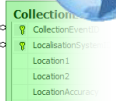
DiversityCollection - Struktur

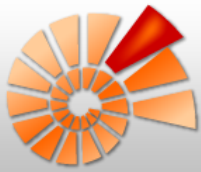
www.diversityworkbench.net





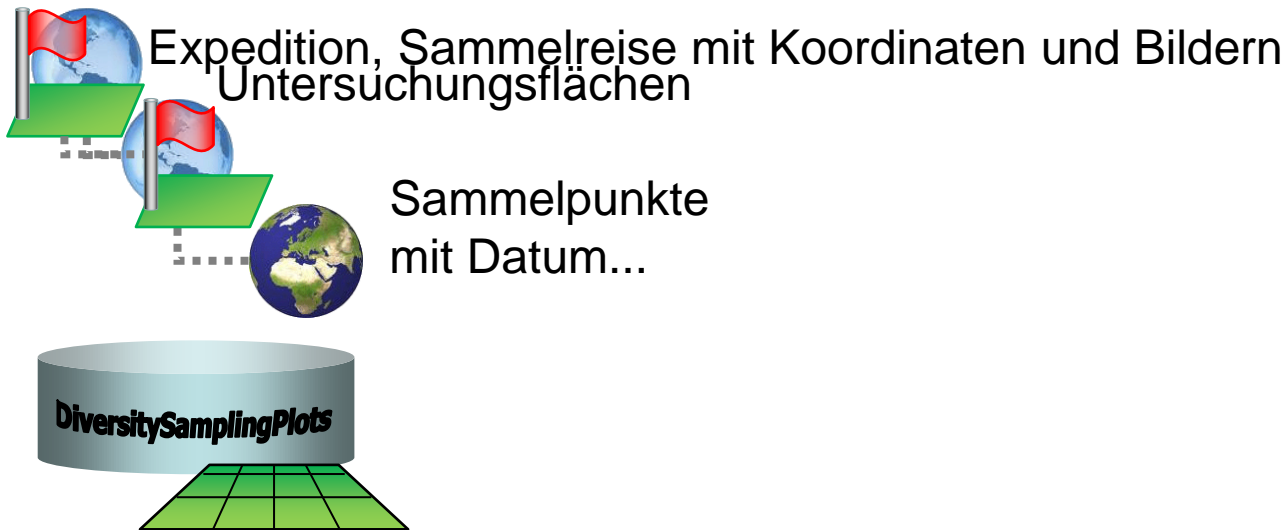
06.06.1987, Trees beside stream above falls

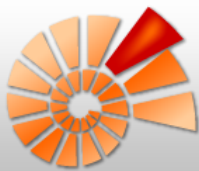




DiversityCollection - Struktur

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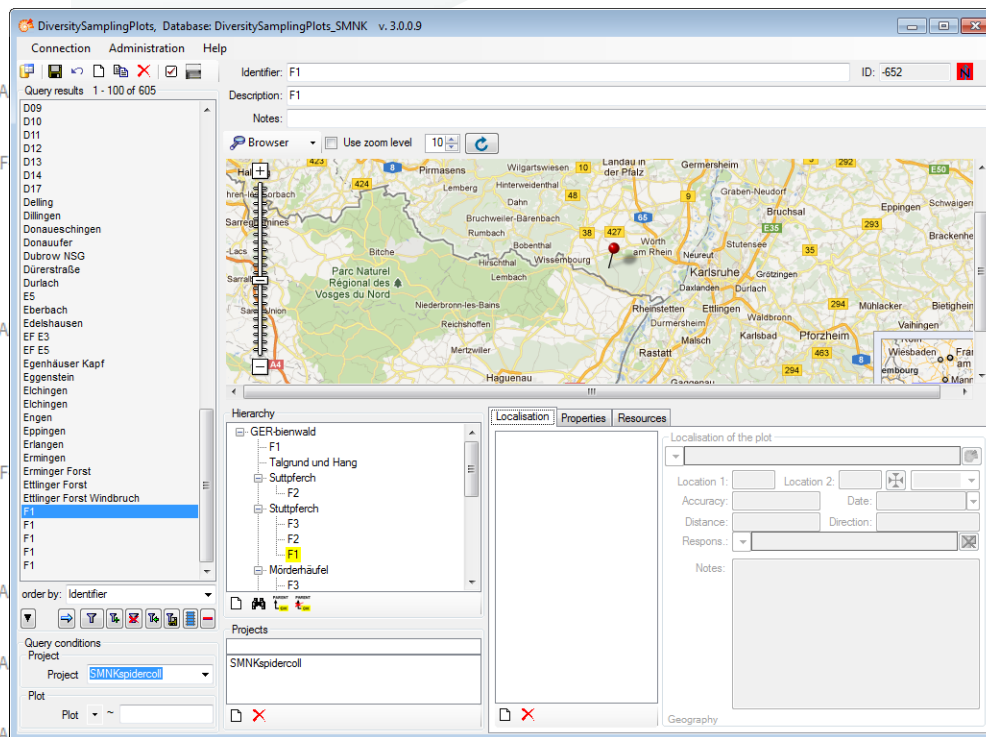




Untersuchungsflächen

www.diversityworkbench.net

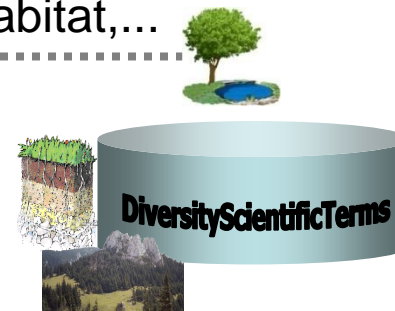
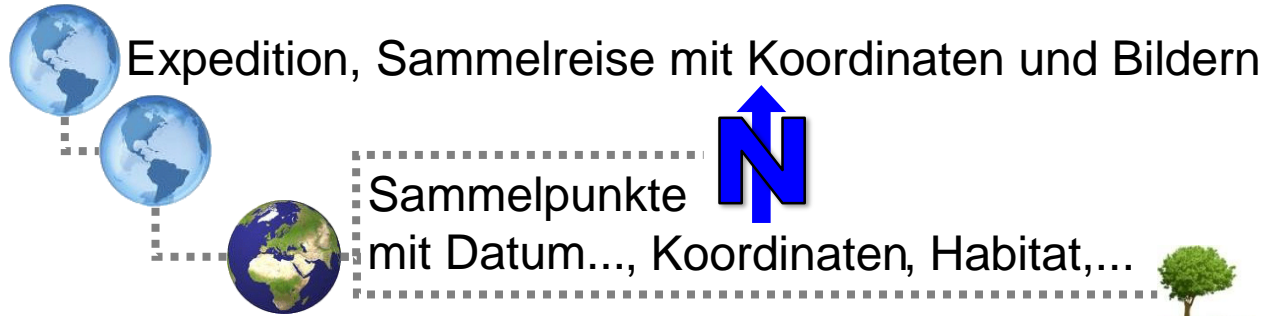
- GER-alterflugplatz
- S-9B
- Falle 3
 - 2010/4/23 2010/04/30 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07258
 - Hypsosinga albobittata* (Westring, 1851) [male]
 - 2010/4/9 2010/04/16 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07177
 - Typhochrestus digitatus* (O.P.-Cambridge, 1872) [female]
 - Typhochrestus digitatus* (O.P.-Cambridge, 1872) [male]
 - 2010/5/18 2010/05/25 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07413
 - Hypsosinga albobittata* (Westring, 1851) [male]
 - 2010/5/25 2010/06/01 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07528
 - Pocadicnemis juncea* Locket & Millidge, 1953 [male]
 - SMNK-ARA 07560
 - Oxyptila simplex* (O.P.-Cambridge, 1862) [male]
- Falle 2
 - 2010/4/23 2010/04/30 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07276
 - Pardosa monticola* (Clerck, 1757) [female]
 - 2010/4/9 2010/04/16 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07141
 - Styloctetor romanus* (O.P.-Cambridge, 1872) [male]
 - SMNK-ARA 07178
 - Typhochrestus digitatus* (O.P.-Cambridge, 1872) [female]
 - Typhochrestus digitatus* (O.P.-Cambridge, 1872) [male]
- Falle 1
 - 2010/4/23 2010/04/30 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07275
 - Pardosa monticola* (Clerck, 1757) [female]
 - Pardosa monticola* (Clerck, 1757) [male]
 - SMNK-ARA 07282
 - Pardosa palustris* (Linnaeus, 1758) [female]
 - 2010/4/9 2010/04/16 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07140
 - Styloctetor romanus* (O.P.-Cambridge, 1872) [male]
 - SMNK-ARA 07176
 - Typhochrestus digitatus* (O.P.-Cambridge, 1872) [male]
 - 2010/5/11 2010/05/18 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07388
 - Cheiracanthium virescens* (Sundevall, 1833) [male]
 - 2010/5/18 2010/05/25 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B
 - SMNK-ARA 07369
 - Phlegra fasciata* (Hahn, 1826) [female]
 - 2010/5/25 2010/06/01 Deutschland, Karlsruhe, Baden-Württemberg, Alter Flugplatz Karlsruhe Sandrasen AF-S-9B





DiversityCollection - Struktur

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Wissenschaftliche Terminologien

www.diversityworkbench.net

DiversityScientificTerms v. 3.0.0.0

Connection Administration Help

Terminology: Lithostratigraphy ID: 3285 TermID: 3431

Term: Untere Keuper Filter lang.: [dropdown]

Query results 1 - 64

- Mainhardt Formation
- Meißner Formation
- Mittlerer Buntsandstein
- Mittlerer Keuper
- Mittlerer Muschelkalk
- Muschelkalk
- Oberer Buntsandstein
- Oberer Gipskeuper
- Oberer Keuper
- Oberer Muschelkalk
- Periode
- Röt Formation
- Rottweil Formation
- Rüdersdorf Formation
- Schilfsandstein
- Solling Formation
- Steigerwald Formation
- Steinmergelkeuper
- Stubensandstein
- Stuttgart Formation
- Trias
- Trochitenkalk Formation

Trias

- Buntsandstein**
 - Mittlerer Buntsandstein
 - Oberer Buntsandstein
 - Unterer Buntsandstein
- Keuper**
 - Mittlerer Keuper
 - Oberer Keuper
 - Exter Formation
 - Untere Keuper**

Display text: Untere Keuper

Description:

Broader term: Keuper

Ranking term: Untergruppe Is a ranking term ☐

Hierarchy: / Keuper / Trias

External ID:

Notes:

Language: Deutsch

Properties References

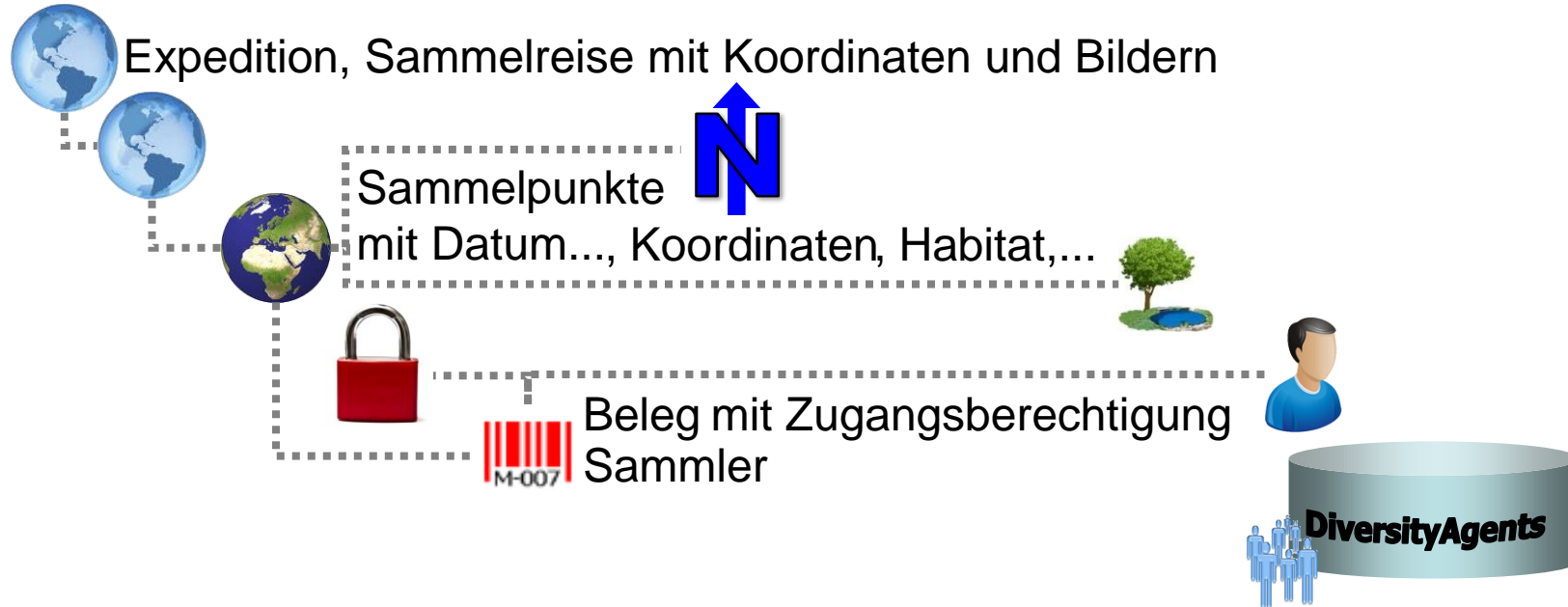
Age from Value: 230

Age to Notes:



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DiversityAgents

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DiversityAgents v. 3.0.0.4

Connection Query View Administration Help

Agent: **Rößner, Gertrud, Dr.** ID: 37688 Version: 2 Revision: unchecked

Query results 1 - 14

- Hertel, Hannes, Prof. Dr.
- Hertel, I.
- Hertel, Kerstin
- Hertel, M.
- Hertel, R.
- Hertel, R.J.G.
- Hertel, Stefan
- Herter, W.G.F.
- Herter, W.G.F.
- Herter, Wilhelm (Guillermo) Gustav (o)
- Hertlein, Leo George
- Hertrich, William
- Hertsch, Hermann
- Hertwig, Richard

order by: Agent Name

Query conditions

Project

Agent

Agent ~ hert

Abbr. ~

Forename ~

Surname ~

Revision ~

Type ~

Contact

Country ~

City ~

Postfix

Prefix

Inherited name

Postfix

Abbreviation

Type Person

Gender

Role wissenschaftliche Oberassistentin

Description:

Orig. spelling:

Place of birth dd/mm/yyyy

Place of death dd/mm/yyyy

Suppl.:

Hierarchy

- Staatssammlung für Anthropologie und Paläoanatomie
 - Abt. Paläoanatomie
 - Obermaier, Henriette, Dr.
- Bayerische Staatssammlung für Paläontologie und Historische Geologie
 - Nützel, Alexander, Dr.
 - Rößner, Gertrud, Dr.**
 - Werner, Winfried, Dr.
 - Rauhut, Oliver, Dr.

Contact information

1: Tel.: 089 2180 6612

CUMULATIVE ADDRESS: Richard-Wagner-Str. 10 80333 München Tel.: 089 2180 6612

Country

Postal code

City

Street address

Address:

Cellular phone

Telefax

Email:

until

ExternalAgentURI

Images

Keywords

Paläontologie

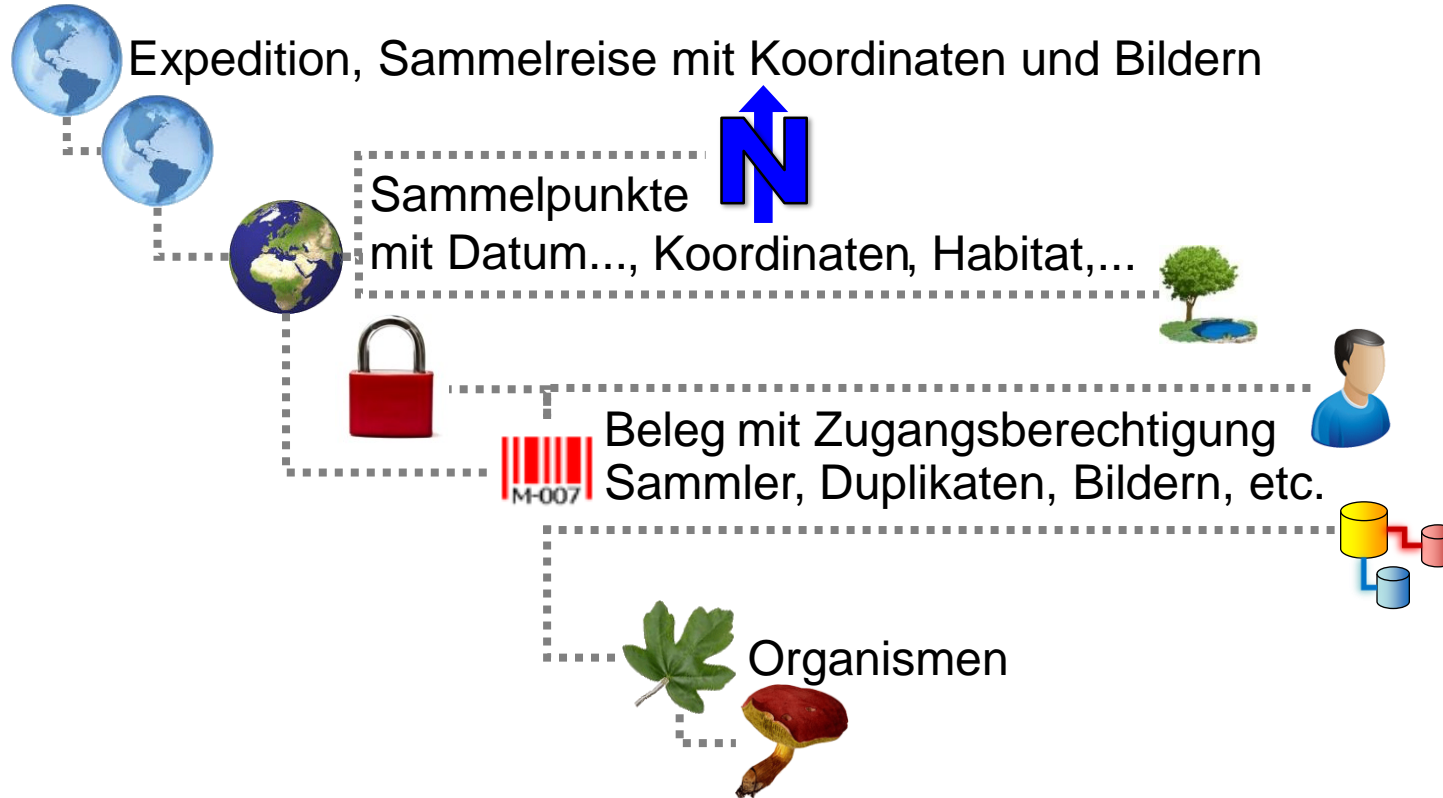
Projects

BSMAddresses



DiversityCollection - Struktur

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Beziehungen zwischen Organismen

www.diversityworkbench.net



Pinus



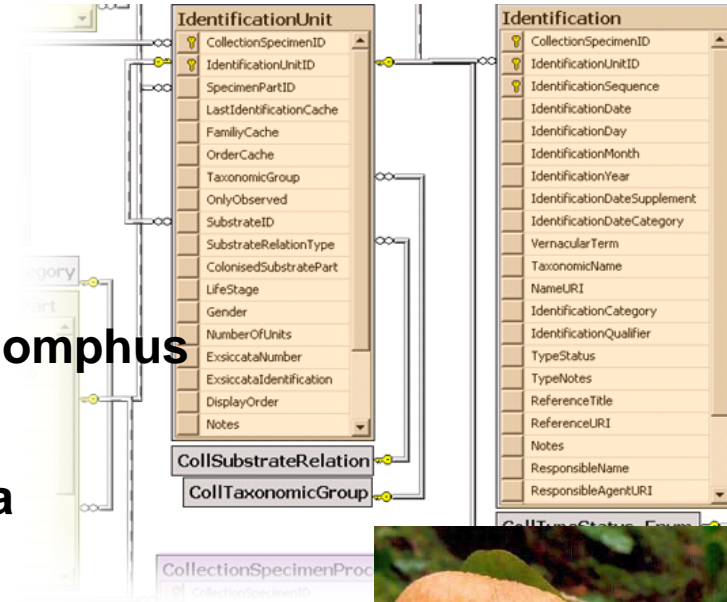
Rhizopogon



Chroogomphus



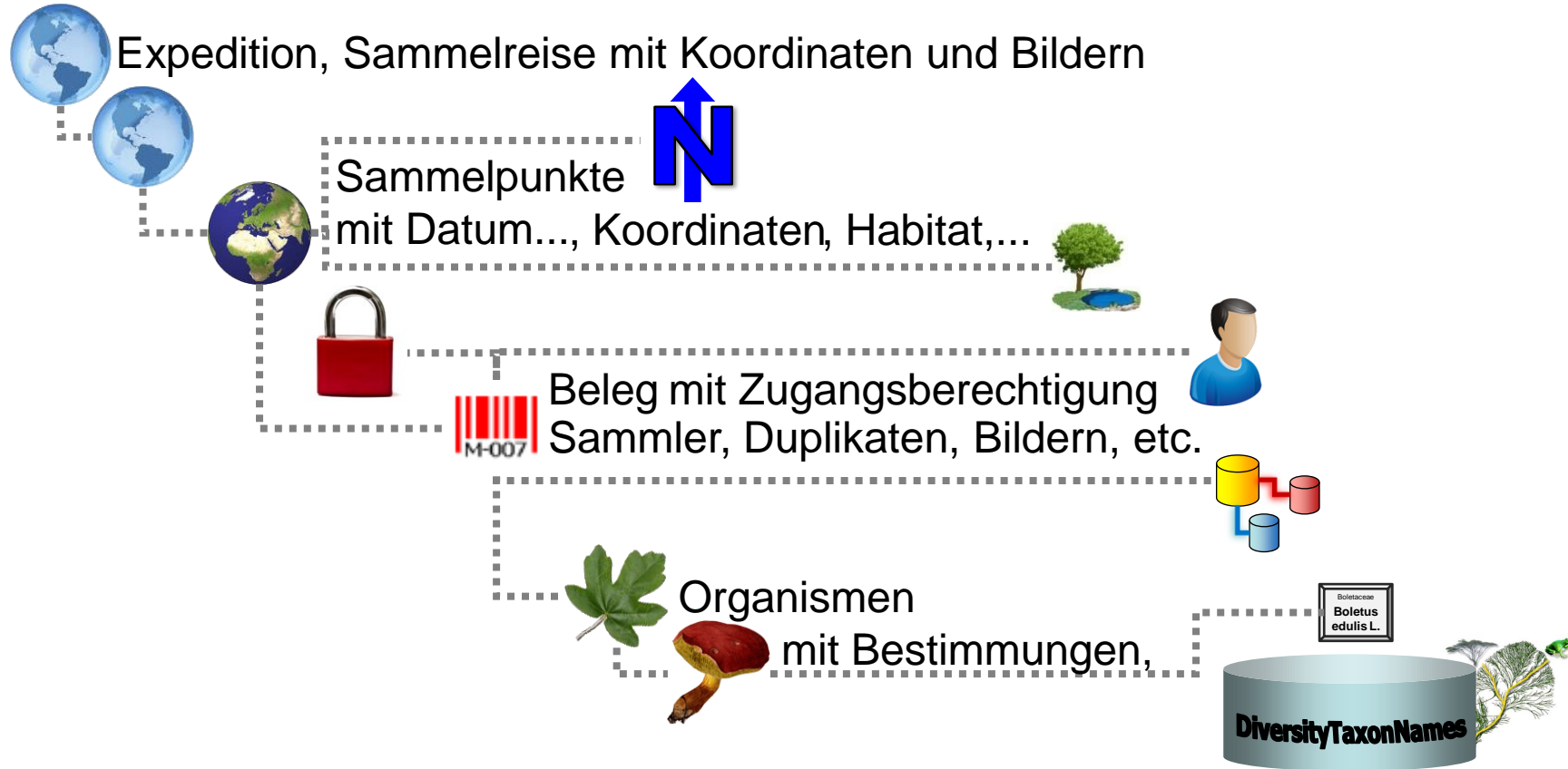
Suillia





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Flechten



Pflanzen



Schleimpilze

DiversityTaxonNames

Spinnen

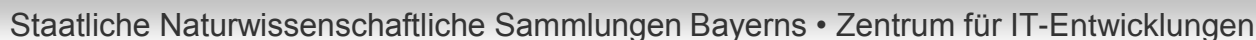


Insekten

Vögel



Säuger





DiversityCollection - Struktur

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The screenshot displays the 'Collection' management interface in the DiversityCollection web application. The main window is titled 'Collection' and shows a list of items (101-126 of 126) on the left, including Microscopic slides, M-Lichens, MSB, M-VascularPlants, Phioles, private herbaria, PRIM, Rak 1/1/1, Raum 204, REG, REG-VascularPlants, Sandelzhausen, SAPM, Schrank III, Schublade 96, Slide box series A, Slide box series B, Slide box series E, Stollebau, STU, STU-VascularPlants, TestCollection, and Theresienstr. 37-39 Keller 33. The central area displays a collection of butterfly specimens, labeled 'ZSM-DNA Bank'. Below the specimen image, there are fields for 'Name: ZSM-DNA Bank', 'Contact', 'Description', 'Location', 'Owner', and 'Display order: 100'. A URL 'http://www.naturkundemuseum-berlin.de/u' is visible. The right sidebar shows a 'Type' dropdown, 'Withhold.reason', and 'Notes' fields. The bottom right corner shows a 'Display order' and 'Notes' table with a 'Parent' column. The interface is designed for managing biodiversity collections, providing a structured way to organize and document specimens.



The diagram illustrates the integration of biological specimen data across various domains. At the center is a large tree. Green arrows radiate from it to various images: a DNA helix, a petri dish with green cultures, a fossilized fish, a wooden box, a close-up of wood grain, and a cross-section of wood. A blue double-headed arrow connects two boxes. The background features a light blue grid with several database schema tables.

CollectionSpecimen
CollectionSpecimenID
Version
CollectionEventID
CollectionID
AccessionNumber
AccessionDate
AccessionDay
AccessionMonth
AccessionYear
AccessionDateSupplement
AccessionDateCategory
DepositorName
DepositorAgentURI
DepositorAccessionNum...
LabelTitle
LabelType
LabelTranscriptionState
LabelTranscriptionNotes
ExsiccataURI
ExsiccataAbbreviation
OriginalNotes
AdditionalNotes
ReferenceTitle
ReferenceURI
ReferenceDetails
Problems
DataWithholdingReason
InternalNotes
ExternalDataSourceID
ExternalIdentifier

CollectionSpecimenRelation
CollectionSpecimenID
RelatedSpecimenURI
RelatedSpecimenDisplayText
RelationType
RelatedSpecimenCollectionID
RelatedSpecimenDescription
Notes
IsInternalRelationCache

CollectionSpecimenImage
CollectionSpecimenID
URI
ResourceURI
SpecimenPartID
IdentificationUnitID
ImageType
Notes
Description
DataWithholdingReason

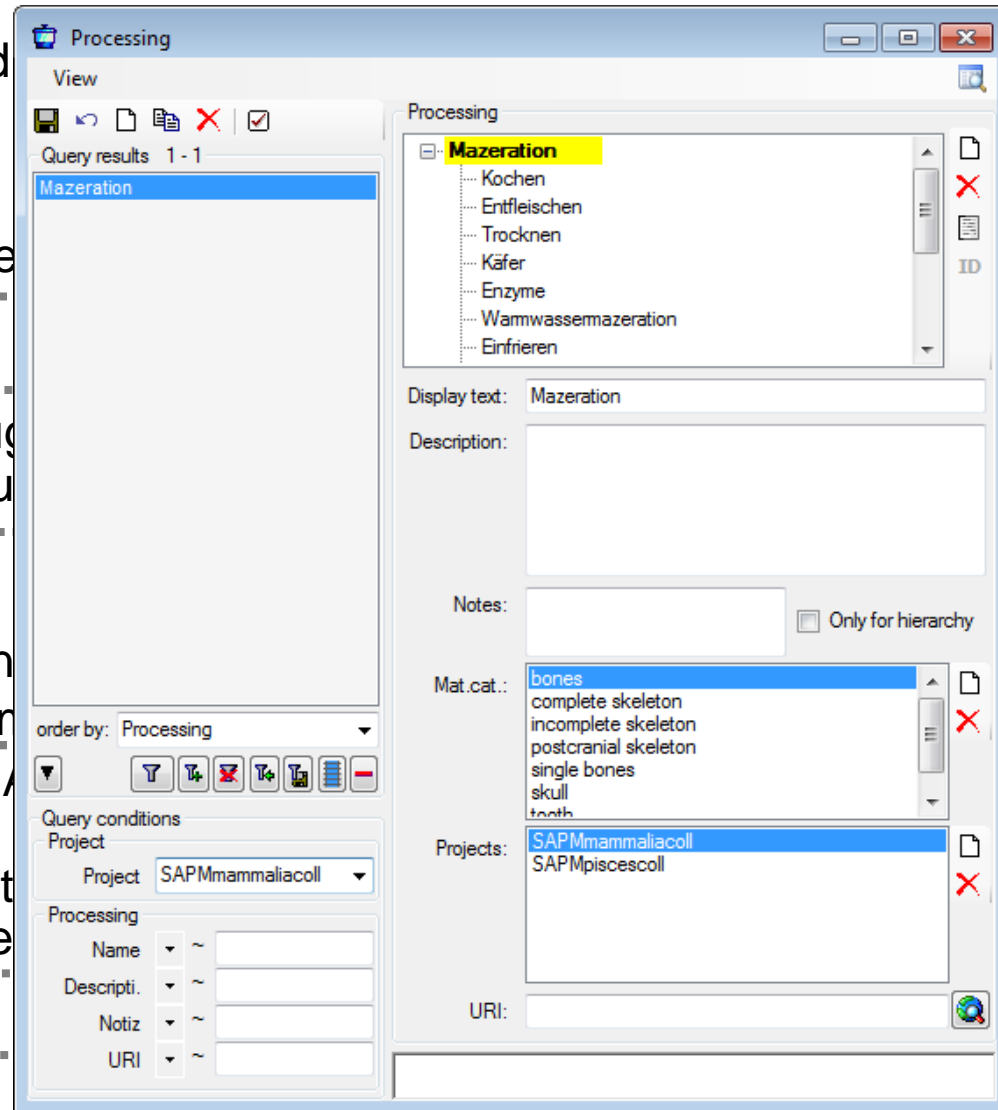
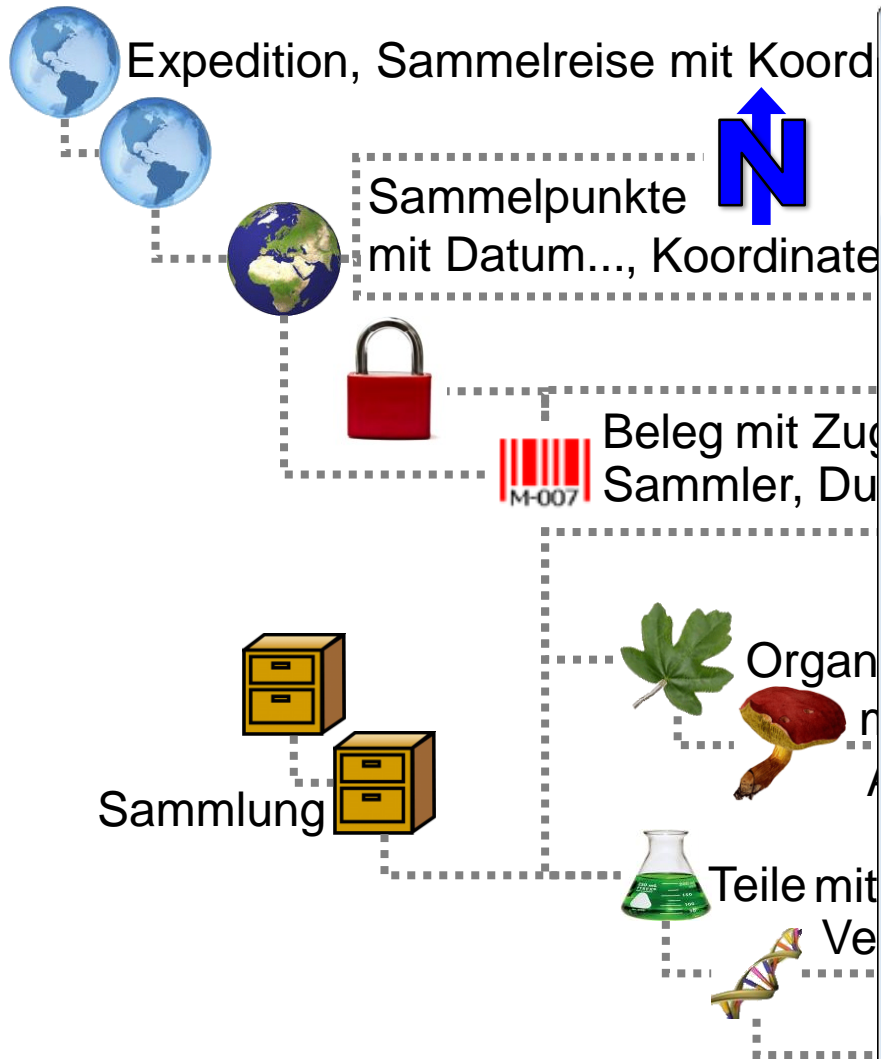
CollectionSpecimenPart
CollectionSpecimenID
SpecimenPartID
DerivedFromSpecimenPartID
PreparationMethod

Processing
ProcessingID
SpecimenPartID
ProcessingMethod
ProcessingDate
ProcessingTime
ProcessingLocation
ProcessingStatus
ProcessingNotes
ProcessingResults
ProcessingErrors
ProcessingWarnings
ProcessingMessages
ProcessingLogs
ProcessingData
ProcessingParameters
ProcessingVariables
ProcessingConstants
ProcessingFunctions
ProcessingClasses
ProcessingModules
ProcessingPackages
ProcessingFrameworks
ProcessingLibraries
ProcessingTools
ProcessingSoftware
ProcessingHardware
ProcessingNetworks
ProcessingPeripherals
ProcessingInputs
ProcessingOutputs
ProcessingStorage
ProcessingSecurity
ProcessingCompliance
ProcessingGovernance
ProcessingPolicies
ProcessingStandards
ProcessingBestPractices
ProcessingQualityAssurance
ProcessingQualityControl
ProcessingQualityImprovement
ProcessingContinuousImprovement
ProcessingInnovation
ProcessingResearchAndDevelopment
ProcessingCollaboration
ProcessingCommunityEngagement
ProcessingPublicOutreach
ProcessingEducation
ProcessingTraining
ProcessingCareerDevelopment
ProcessingMentorship
ProcessingNetworking
ProcessingConferences
ProcessingWorkshops
ProcessingSeminars
ProcessingWebinars
ProcessingPodcasts
ProcessingVideos
ProcessingArticles
ProcessingBooks
ProcessingJournals
ProcessingReports
ProcessingPresentations
ProcessingPressReleases
ProcessingMediaKit
ProcessingSocialMedia
ProcessingEmailMarketing
ProcessingDirectMail
ProcessingTelemarketing
ProcessingSalesForceAutomation
ProcessingCustomerRelationshipManagement
ProcessingEnterpriseResourcePlanning
ProcessingHumanResourcesManagement
ProcessingFinancialManagement
ProcessingProjectManagement
ProcessingBusinessIntelligence
ProcessingAnalytics
ProcessingBigData
ProcessingCloudComputing
ProcessingArtificialIntelligence
ProcessingMachineLearning
ProcessingDeepLearning
ProcessingNaturalLanguageProcessing
ProcessingComputerVision
ProcessingRobotics
ProcessingAutonomousVehicles
ProcessingDrones
ProcessingWearableDevices
ProcessingSmartHome
ProcessingInternetOfThings
ProcessingCybersecurity
ProcessingEncryption
ProcessingFirewalls
ProcessingAntivirus
ProcessingMalwareProtection
ProcessingPhishingProtection
ProcessingRansomwareProtection
ProcessingDataBreachResponse
ProcessingIncidentResponse
ProcessingDisasterRecovery
ProcessingBusinessContinuity
ProcessingRiskManagement
ProcessingInsurance
ProcessingLegalCompliance
ProcessingRegulatoryReporting
ProcessingEnvironmentalImpact
ProcessingSocialResponsibility
ProcessingCorporateGovernance
ProcessingEthics
ProcessingPrivacy
ProcessingConsent
ProcessingDataMinimization
ProcessingDataRetention
ProcessingDataDeletion
ProcessingDataPortability
ProcessingDataAnonymization
ProcessingDataPseudonymization
ProcessingDataEncryption
ProcessingDataDecryption
ProcessingDataBackup
ProcessingDataRestore
ProcessingDataArchiving
ProcessingDataMigration
ProcessingDataIntegration
ProcessingDataInteroperability
ProcessingDataExchange
ProcessingDataSharing
ProcessingDataCollaboration
ProcessingDataTrust
ProcessingDataAccountability
ProcessingDataTransparency
ProcessingDataOpenness
ProcessingDataAccessibility
ProcessingDataUsability
ProcessingDataValue
ProcessingDataQuality
ProcessingDataAccuracy
ProcessingDataCompleteness
ProcessingDataTimeliness
ProcessingDataReliability
ProcessingDataValidity
ProcessingDataAuthenticity
ProcessingDataIntegrity
ProcessingDataConfidentiality
ProcessingDataAvailability
ProcessingDataResiliency
ProcessingDataDurability
ProcessingDataFlexibility
ProcessingDataScalability
ProcessingDataPerformance
ProcessingDataEfficiency
ProcessingDataEffectiveness
ProcessingDataProductivity
ProcessingDataInnovation
ProcessingDataGrowth
ProcessingDataExpansion
ProcessingDataEvolution
ProcessingDataTransformation
ProcessingDataRevolution
ProcessingDataInnovation
ProcessingDataGrowth
ProcessingDataExpansion
ProcessingDataEvolution
ProcessingDataTransformation
ProcessingDataRevolution



DiversityCollection - Struktur

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Verwaltung von Ausleihen etc.

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Administration of transactions

Transaction

Loan to B. Hein

2004
2005
2006
2007

Details Sending Confirmation Reminder Partial return Return Saved documents

Date: 08.09.2011 Schema

Schema file: C:\Daten\ DiversityWorkbench 2.0\ DiversityCollection\ bin\ Debug\ Transaction\ Schemas\ Inventory.xslt

☒ Include subcollections ☐ Include all related collections Number of specimen: 452

Botanische Staatssammlung München

zugegangen am: 16. Jan. 2007

452 Kry/Fungi: The Fungal Collection of Seth Lundell

Geschenk

Inv.-Nr.: 6609

Zugang: Kry/Fungi: 452 Belege - The Fungal Collection of Seth Lundell

Geber: Helga Grosse-Brauckmann, Seeheim

Geschenk

Specimen

- M-0140301 - specimen
- M-0140302 - specimen
- M-0140303 - specimen
- M-0140304 - specimen
- M-0140305 - specimen
- M-0140306 - specimen
- M-0140307 - specimen
- M-0140308 - specimen
- M-0140309 - specimen
- M-0140310 - specimen
- M-0140311 - specimen
- M-0140312 - specimen
- M-0140313 - specimen
- M-0140314 - specimen
- M-0140315 - specimen
- M-0140316 - specimen
- M-0140317 - specimen
- M-0140318 - specimen
- M-0140319 - specimen
- M-0140320 - specimen
- M-0140321 - specimen
- M-0140322 - specimen
- M-0140323 - specimen
- M-0140324 - specimen
- M-0140325 - specimen
- M-0140326 - specimen
- M-0140327 - specimen
- M-0140328 - specimen
- M-0140329 - specimen
- M-0140330 - specimen
- M-0140331 - specimen

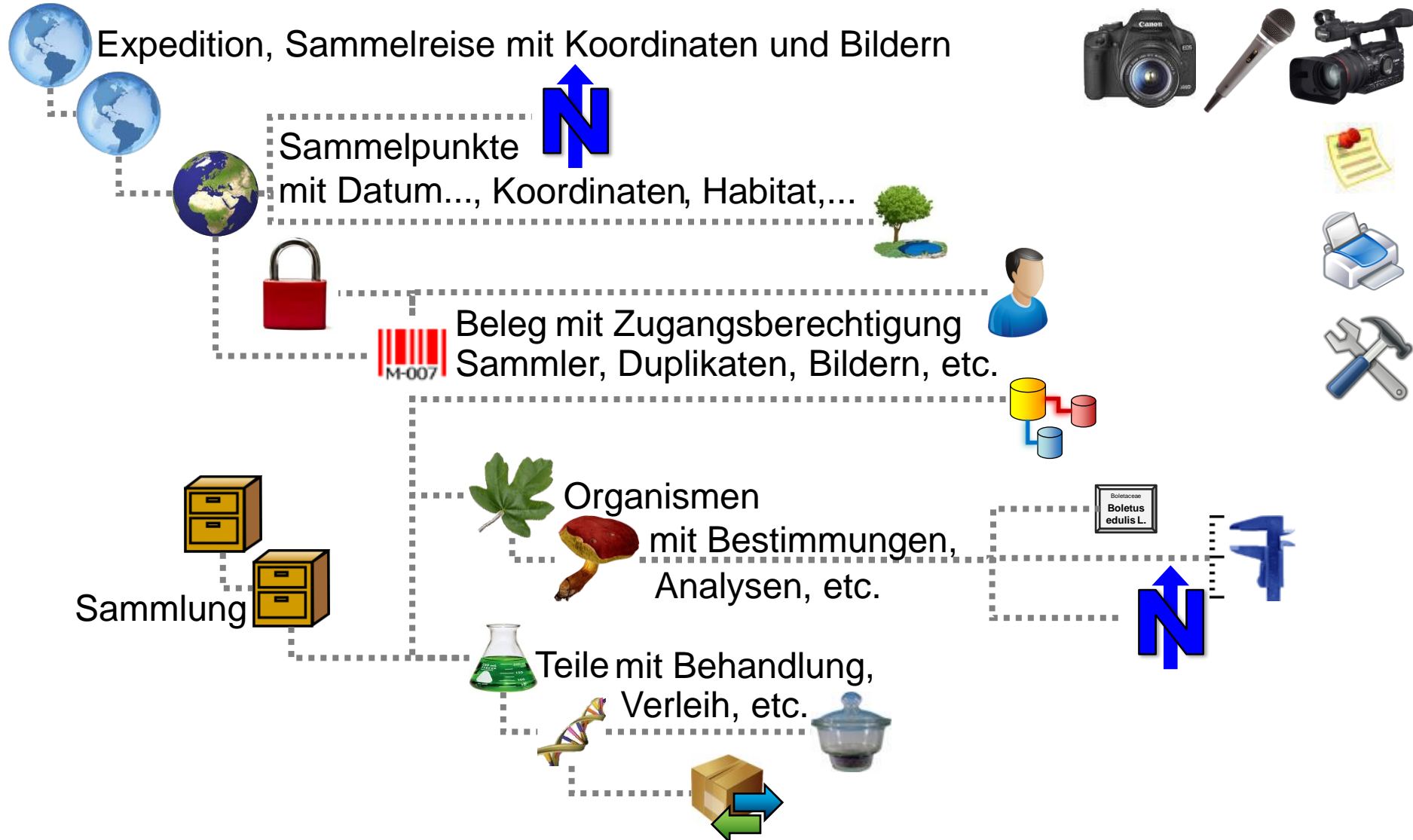
Description ~
Category ~

Fuligo cinerea (Schwein.) Morgan M-0140301
Albatrellus cristatus (Schaeff.) Kotl. & Pouzar M-0140302
Amylocystis lapponicus (Romell) Bondartsev & Singer ex Singer M-0140303 - M-0140304
Amylocystis lapponicus (Romell) Bondartsev & Singer ex Singer M-0140305 - M-0140306



DiversityCollection - Struktur

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DiversityCollection - Oberfläche

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Ergebnisliste

Suchkriterien

Übersicht

Bilder
Etiketten
Karten

Details

DiversityCollection v.3.0.3.8

Connection Grid Query Data Administration Help

Context: General

Specimen ID: 4986 Event 46833 Version 1 2 Withhold.

Distribution map

Items 101 - 200 of 5949

order by: Acc. Nr.

Query conditions

Projects

Project BSMeryscoll

Collection specimen

Acc. Nr. sp. ID Depositor Depos. Ac. Orig. notes

Collection event

Coll. Date Locality

Localisation of the collection event

Alt. prese. Place

Blumeria graminis (DC.) Speer

Identification / name changes

Tax. name: Blumeria graminis (DC.) Speer

Vern. term. Quali. Det. Category Type notes Type st. Date Suppl. Cat. Ref. Details



GIS Editor

www.diversityworkbench.net

Diversity GIS Editor 2.0.0.1

WpfSamplingPlotPage

ID: Barbing-01 Text: Barbing

Map Shift Point Farbe Yellow Position X: 1207.0 Position Y: 616.0
Adapt Line Longitude: 12.209744 Latitude: 48.999090
Edit Area next > Strich Füllung Zoom 1.000 Verschieben oder Zoomen der Arbeitsfläche mit Maus oder Schieberegler.

Barbing
Barbing

ID: TK25_7133 Text: Eichstätt

Map Shift Point Color Yellow Position X: 480.6 Position Y: 197.7
Adapt Line Longitude: 11.167528 Latitude: 48.912155
Edit Area next > Stroke Fill Opacity 100 % Catch corner of shape/image and press left mouse button to move it

TK2575
8
70
79
110
130
168
173
184
195
202
203
213
229
250
268

[illegible]



Hilfe

Ausblenden Zurück Drucken Optionen

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Storage

Collectors

Tutorial - collection specimen

To set the accession number for the collection specimen, select it in the overview (see point 1 in image below) enter the accession number (see point 2 in image below).

DiversityCollection, Database: DiversityCollection_Test v. 2.5.3.9 Server: BSM1 Port: 5432 User: BOTSAMML...

Connection Query Data Administration

Query results 1 - 1

ID: 182872

order by: Specimen Acc.No.

Query conditions

Project

Specimen

Acc.Nr. ~

ID =

1 – select the collection specimen

2008/6/10 Botanischer Garten M

München

Coord. WGS84 Long. (EW):

Altitude (mNN): 502,9261155

ID: 182872

4 – enter a project

2 – enter the accession number

Number: M-0014917

Find next No.

3 – search for next free accession number

Depositor:

Dep.No:

Acc.date:

Collection:

Ref.:

Projects

Exsiccatal series

Notes

Original:

Additional:

Problems:

To search for the next free accession number, click on the corresponding button as shown above (see point 3 in image above). A window as shown below will open. Start the search for a free accession number. If the query ended successful, click **OK** to take the new accession number in your dataset.



Sprache, Kontext

www.diversityworkbench.net

DiversityCollection v.3.0.3.9

Verbindung Tabelle Suche Daten Administration Hilfe Update

Suchergebnisse 1 - 100 von 90135

M-0000001
M-0000007
M-0000012
M-0000013

ordnen nach: Beleg Nr.

Suchkriterien

Projekte

Projekt

Gesamt- oder Teilbelege

Beleg Nr. ~ m

Collection ~

Sammlungsbeleg

Beleg Nr. ~

Zug.Dat. =

Etikett

Typ ~

Stand ~

Sammelereignis

Beleg Nr. **Solanum megaspermum Agra**

M-0000001

1964/8/31 5 1/2 km above the Ca

Altitude (mNN): 2000 m NN

Peru

M-0000001

Solanum megaspermum

Solanum megaspermum

Hutchison, P.C.

Bismarck, K. von

Beleg Ort u. Zeit Version Pub.Sperr

ID: 439500 294815 4 6 GPI: not comp

Solanum megaspermum Agra 539568

Tax. Gru.: Pflanz Anzahl: .Nur beob

Geschlecht: Stadium:

Familie: Solanaceae Ordnung:

Kenennung: Beschreib.:

Beziehung: Umstände:

Besied. Teil: Notiz:

Bestimmungen

Tax. Name: Solanum megaspermum Agra

Dt.Bezeich.: Quali.:

Best.: Kategorie:

Notiz Typ: ? Typus: type

Date: Suppl.: Kat.:

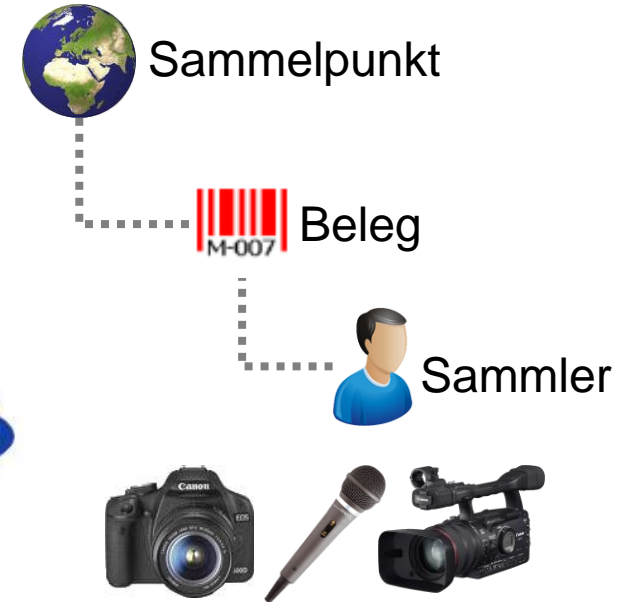
Lit.: Syst. Bot. 33(3): 5 Details:

Notiz:



Rechte, Zugang

www.diversityworkbench.net






Webportale

www.diversityworkbench.net

Firefox

Staatliche Naturwissenschaftliche ...



... free
GLOBAL BI

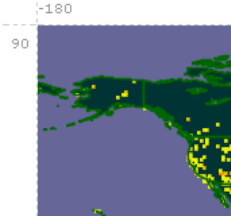
Data Publis

Actions for Staatliche M

Explore: Occurrence

Download: Darwin Co

Occurrence overview



Species
2000

Catalogue of Life: 15th March 2012


indexing the world's known species

ITIS

Browse

Search

Info



MELNET

Full name:

MELnet

Short name:

MELnet

Version:

1.0, Ma

Release date:

2011-0

Authors/editors:

Renne
F., Gol
Ulloa C

Taxonomic coverage:

Plantae

English name of the group:

Melast

Number of species:

4,539

Number of infraspecific taxa:

202

Number of synonyms:

4,857

Number of common names:

0

Total number of names:

9,598

Abstract:

The fa
species
1,000 i
Memed
mostly
recogn

Organization:

Botanik
Scienc
Alexan
herbar

Website:

http://

Species
2000

Catalogue of Life: 15th March 2012

indexing the world's known species


ITIS

Browse

Search

Info

Database details



LIAS

Full name:

LIAS: A Global Information System for Lichenized and Non-Lichenized Ascomycetes

Short name:

LIAS

Version:

Mar 2011

Release date:

2011-03-09

Authors/editors:

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

Taxonomic coverage:

Eurotiomycetes - Pyrenulales, Verrucariales, Mycocaliciales
Dothideomycetes - genera Arthopyrenia, Eopyrenula, Lichenothelia,
Mycoporum, Leptorhaphis, Naetrocymbe, Tomasellia, Peridiothelia,
Pseudopyrenula, Cyrtidula, Cystocoleus, Kirschsteinothelia, Mycoglaena,
Racodium
Leotiomycetes - Thelocarpaceae, Vezdaaceae
Sordariomycetes - genus Sarcopyrenia

English name of the group:

Lichens

Number of species:

6,968

Number of infraspecific taxa:

61

Number of synonyms:

5,510

Number of common names:

1,784

Total number of names:

14,323

Abstract:

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.

Firefox

Catalogue of Life - 2011 Annual Chec

Species
2000

Catalogue of Life: 2011 Annual Chec

indexing the world's known species

ITIS

Browse

Search

Info

Search the Annual Checklist - fixed edition each year

Search for:

☒ Match whole words only

Search

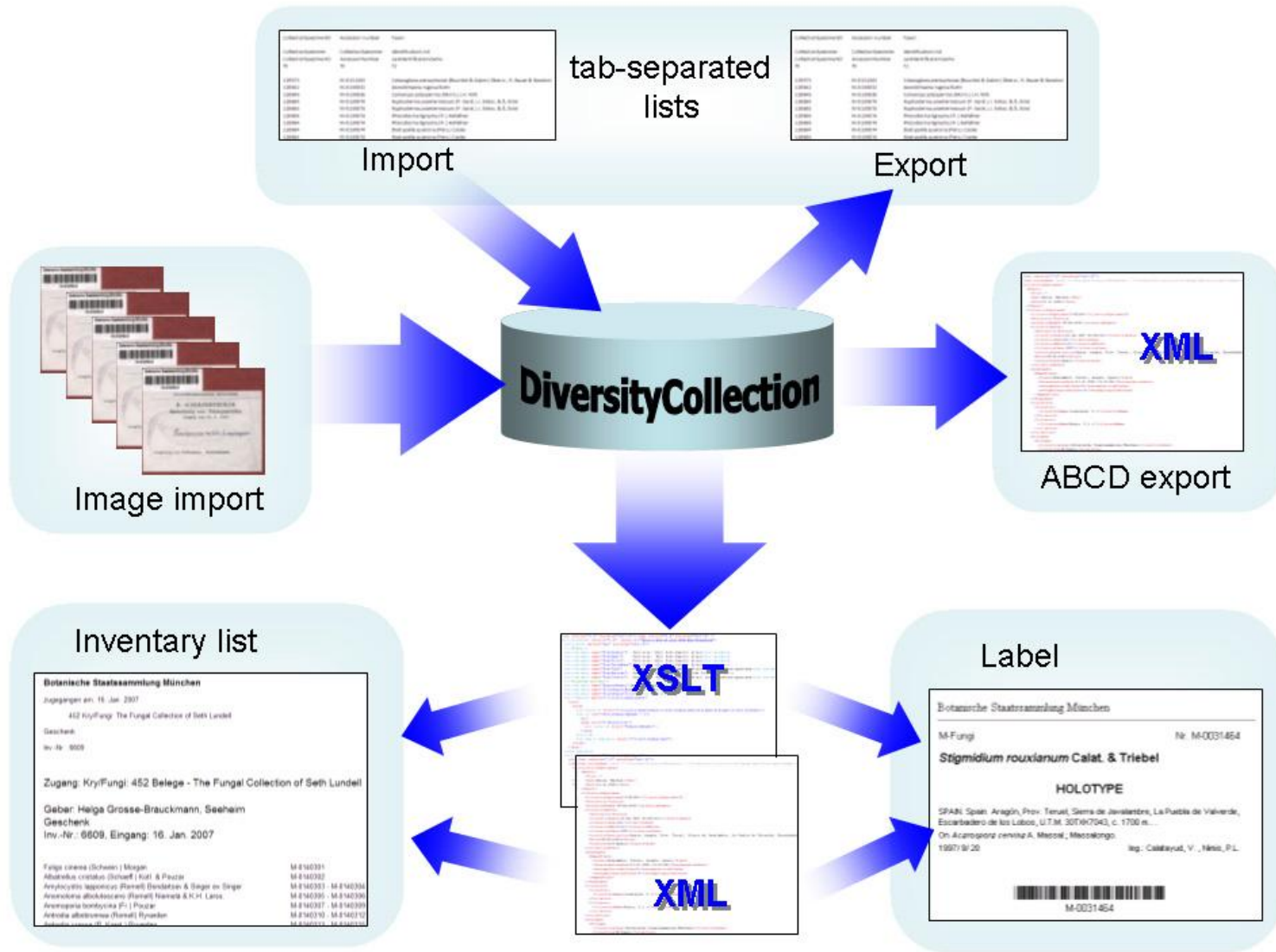
Annual Checklist Interface v1.6 [r1017] developed by ETI BioInformatics

Disclaimer: Maps dep
species occurrence de



Import, Export

www.diversityworkbench.net





Mobilgeräte

www.diversityworkbench.net

DiversityCollection



DiversityCollection v. 3.0.3.8

Connection Grid Query Data Administration Help

Acc. Nr. **Ceratotherium simum (Burchell, 1817)** Specimen ID: **178065** Event: **208971** Version: **3 3** Withhold:

Query results 1 - 10

- SAPM-MA-00130
- SAPM-MA-00131
- SAPM-MA-00132
- SAPM-MA-00133
- SAPM-MA-00134
- SAPM-MA-00135
- SAPM-MA-00136**
- SAPM-MA-00137
- SAPM-MA-00138

order by: Acc. Nr.

Query conditions

Projects

Project: SAPMmammaliacoll

Collection specimen

Acc. Nr. sp. ~ sapm-ma-0013

ID ~

Depositor ~

Depos. Ac. ~

Orig. notes ~

Collection event

Coll. Date ~

Locality ~

Localisation of the collection event

Alt. prese. ~

Place ~

Images of the specimen

1:1 Max. MB: 2.0 http://pictures.snsb.info/SAPM/web/SAPM-MA-0/SAPM-MA-0

1988/10/- Deutschland [Tiergarten]

SAPM-MA-00136

Ceratotherium simum (Burchell, 1817)

Ceratotherium simum

Age 1: 2 1/2 Jahre

SAPM-MA-00136

Ceratotherium simum 1

Ceratotherium simum (Burchell, 1817)

Context: General

Organism: ~

Type: pho ~

Part: ~

Withhold.: ~

Note: ~

Ceratotherium simum (Burchell, 1817) [female] 211061

Tax. group: mam\mal No. of units: ~ Only obs ~

Sex: female Life stage: subadult

Identification / name changes

Tax. name: Ceratotherium simum (Burchell, 1817)

Vern. tem: Breitmaulnashorn Quali.: ~


Det.: ~ Category: ~

Type notes: ~ Type st.: ~

Date: ~ Suppl.: ~ Cat.: ~



Beispiel für eine Aufnahme

eventseries 


Description
Begehung Botanischer Garten

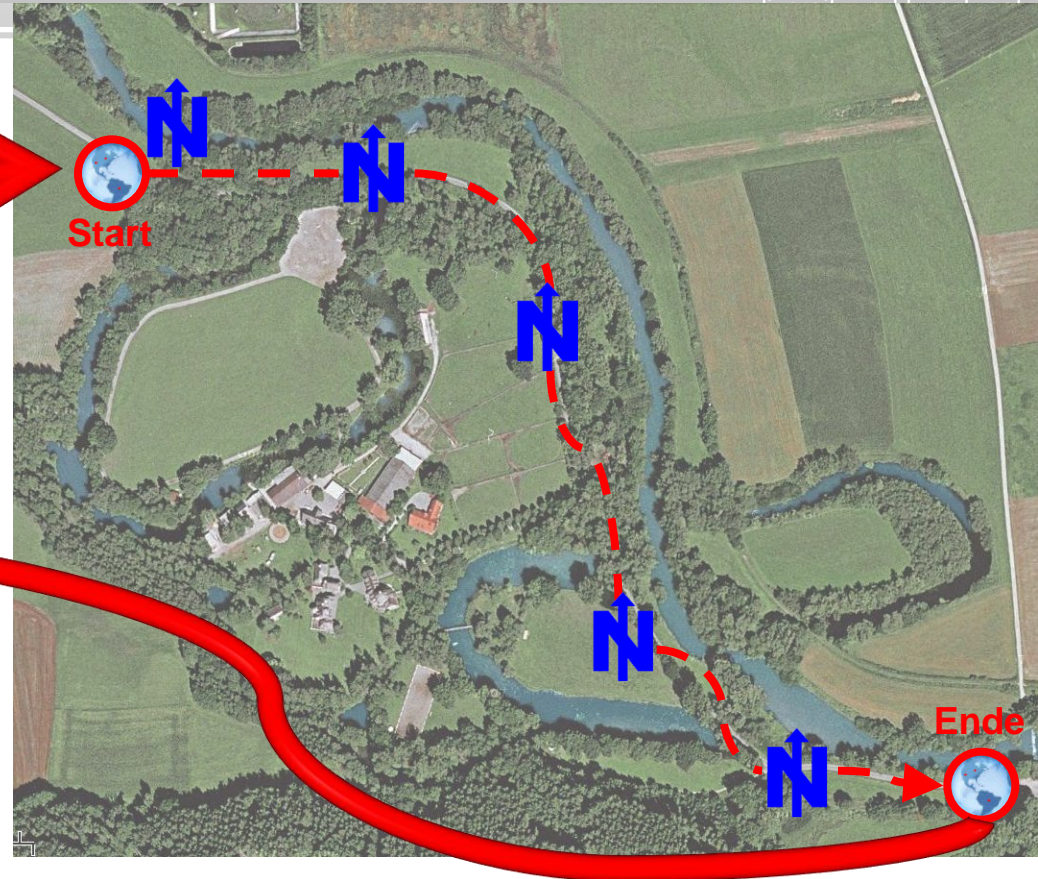
SeriesCode

Series Start
22.02.2012 15:12

Series End

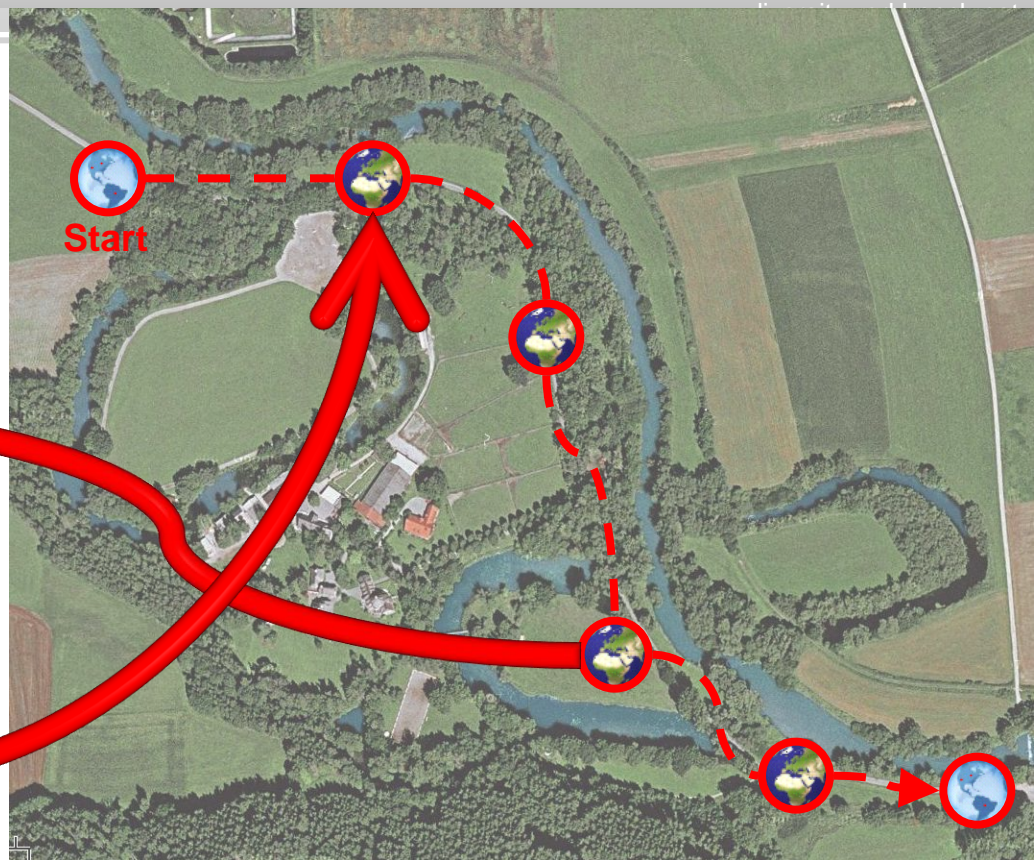
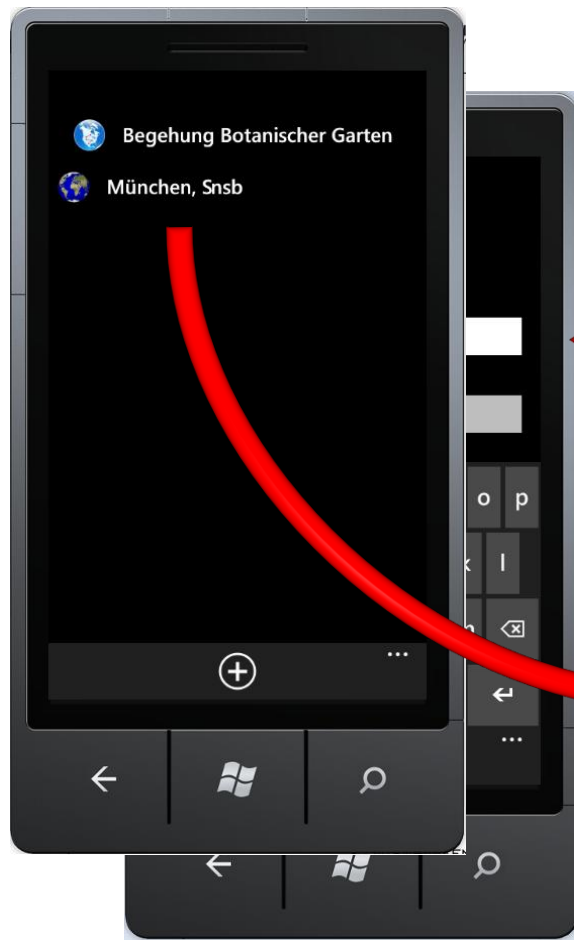
  



Anlegen (und Beenden)
einer Sammelroute



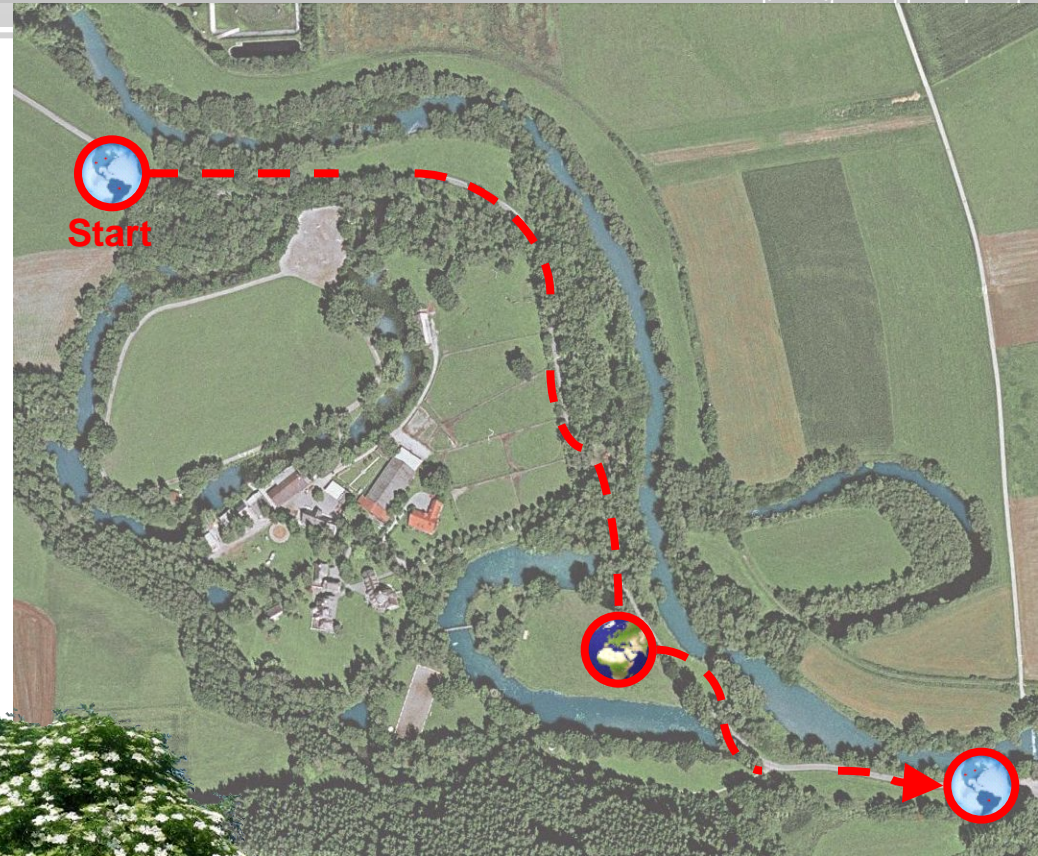
Beispiel für eine Aufnahme



Anlegen eines Sammelpunkts



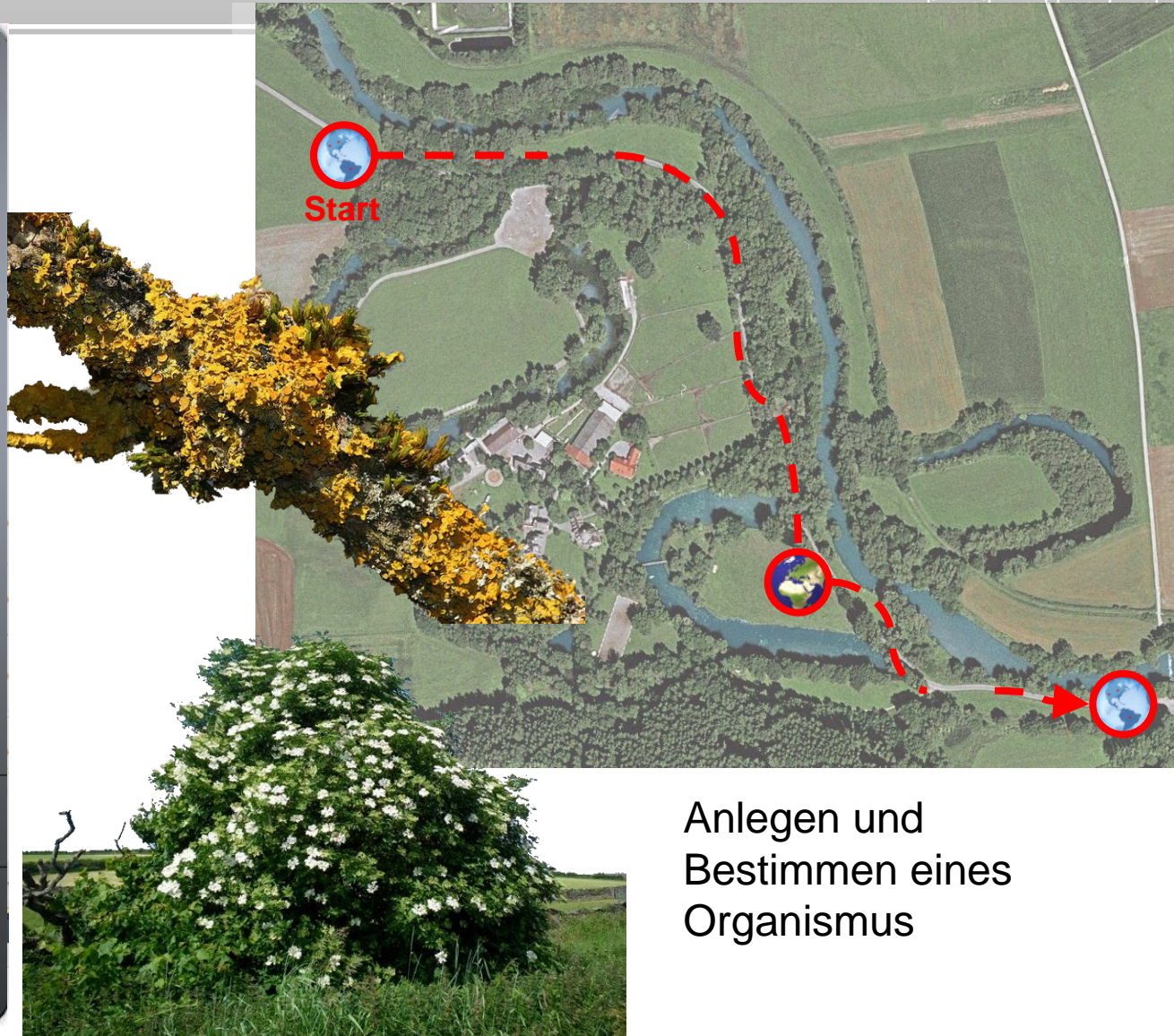
Beispiel für eine Aufnahme



Anlegen eines Belegs



Beispiel für eine Aufnahme



Anlegen und
Bestimmen eines
Organismus



In an initial phase during the BMBF programme BIOLOG-IT with [DeltaAccess/DiversityDescriptions](#) they are by now largely obso-
 continued as one of the general tasks of the [SNSB IT Center](#)
 optimized within the joint research project [GBIF-D, Kompetenzzentrum](#)



Software

www.diversityworkbench.net

Microsoft/Express

<http://www.microsoft.com/germany/express/default.aspx>

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WEB

WINDOWS

PHONE

DATENBANK

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Microsoft/Express

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WEB

WINDOWS

PHONE

Produkte

Web

Windows



Microsoft®
SQL Server® 2008
Express



Einfach erhalten

- Erstellen einfacher
- Sicherung
- Enthält geographische
- Besten geographischen
- Ihrer Applikation

Windows Phone
Put people first.

Entdecken Kaufen Marketplace Hilfe und Anleitung Mein Handy

Anwendungen Spiele

Anwendungen

Alle

Unterhaltung

Musik + Videos

Tools und Produktivität

Lifestyle

Kinder und Familie

Nachrichten & Wetter

Reisen und Navigation

Gesundheit und Fitness

Foto

Social

Sport

Private Finanzen

Wirtschaft

Bücher und Lexika

Bildung

Regierung und Politik

Kostenlos

Top

Neu



Nutzloses Wissen
★★★★★
Bewertungen: 56
Kostenlos



Hauptstädte
★★★★★
Bewertungen: 5
Kostenlos



Mein Lernstilprofil
★★★★★
Bewertungen: 30
Kostenlos



Allgemeinwissen
★★★★★
Bewertungen: 6
Kostenlos



Bürgertest
★★★★★
Bewertungen: 8
Kostenlos



Earth
★★★★★
Bewertungen: 3
Kostenlos



Mathematik
★★★★★
Bewertungen: 2
Kostenlos



Bing Dictionary
★★★★★
Bewertungen: 2
Kostenlos



Gedächtnis
★★★★★
Bewertungen: 2
Kostenlos



Gehörlos ABC
★★★★★
Bewertungen: 3
Kostenlos



Kleine_Knoten
★★★★★
Bewertungen: 8
Kostenlos



Graph Touch
★★★★★
Bewertungen: 6
Kostenlos



easyTimetable
★★★★★
Bewertungen: 9
Kostenlos



Deutsche Sprichwörter
★★★★★
Bewertungen: 1
Kostenlos



türkischer Grundwortschatz
★★★★★
Bewertungen: 3
Kostenlos

open source



Software

www.diversityworkbench.net

DiversityCollection - Windows Internet Explorer

http://localhost:1775/ABC01TestPage.html

Google

Datei Bearbeiten Ansicht Favoriten Extras ?

Favoriten DiversityCollection

Seite Sicherheit Extras ?

Diversity Web Editor

Logout EntryIdentification Save Select table

Server: bsm7.snsb.info:5432 Database: DiversityCollection_Test User: TestEditor

SamplingSite

AK	Accuracy	Altitude	Author	Date	Description	Direction	Distance	GeocodeMethod	Latitude	Location	Longitude	Notes
<input type="checkbox"/>	1	40		2/28/2007 12:00:00 AM						40	40	c.

CollectionEvent

AK	CollectingMethod	CollectorsName	CollectorsNumber	Day	HabitatDescription	Month	Notes	PreparationMethod	Year
<input type="checkbox"/>			Huneck, S.	27		5	methode		1996

CollectionSpecimen

AK	AccessionDate	DepAccNumber	Depositor	ExternalID	Number	Project	Status
<input type="checkbox"/>					M-0041201		

Organism

AK	Gender	LifeStage	Number	Relation	RelationTaxon	RelationType	Remarks	TaxonomicGroup	VoucherNumber
<input type="checkbox"/>								fungus	

Fertig Internet 100%



Workshops, Training

www.diversityworkbench.net

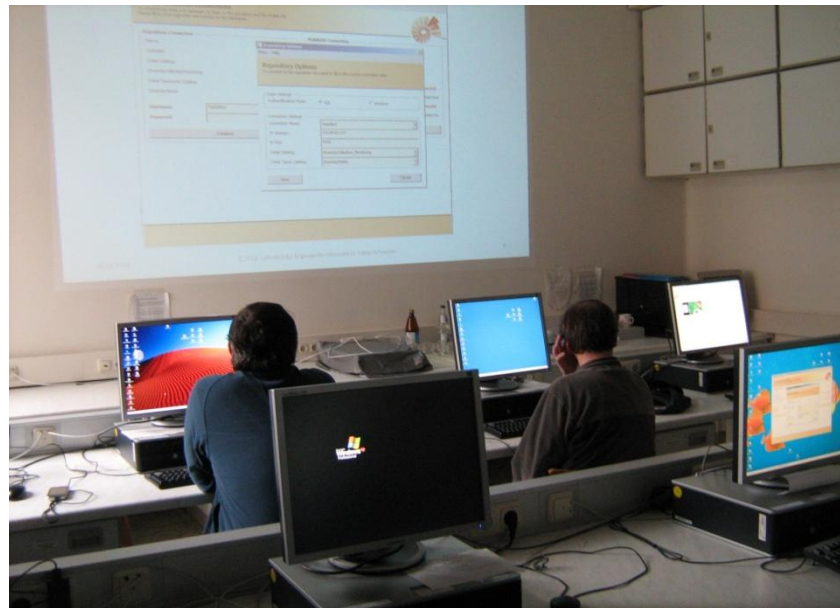


<http://www.snsb.info>

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Workshops

- Upcoming Workshops



**Nächster Termin:
27. Juni 2012**

**Ort:
Botanische
Staatssammlung
München,
Menzinger Str. 67**