

# Publikation von Sammlungsdaten im ABCD-Schema:



-  - Datenpipeline,

Daten in ,  und 

Tanja Weibulat

# Datenfluss in die DWB

- Manuelle Eingabe
- Import Wizard
- GFBio-Submission

**Contributors** (optional)

1. Carola Söh...  
2. Christian E...  
3. Boyke Bunk

+ add contributor

**Target Datacenter** (optional)

SNSB – Staatliche Naturwissenschaftliche Sammlungen Bayerns – SNSB IT Cente

**Categories for this submission** (optional)

Algae & Protists  
 Bacteriology or Virology  
 Botany

Ecology & Environment  
 Geoscience  
 Microbiology

Mycolo  
 Palaeo  
 Zoolog

**Labels** (optional)

Aridibacter  
Blastocatella  
Edaphobacter  
Bacteria  
Bacterial Strains  
Isolation from Soil

Add Labels to your Dataset

Add

## GFBIO SUBMISSIONS

DO YOU NEED HELP ?

TANJA WEIBULAT

My Submissions Create Submission

### Title

Mobilisation of data for GFBio services - Bacterial Descriptions Use Case

### Description

Bei den fünf umfassend annotierten bakteriellen Stämmen für den Import in die DiversityDescriptions wird der Fokus auf Stämme gelegt, deren Species Beschreibung aus kürzlich abgeschlossenen bzw. laufenden Forschungsprojekten von Wissenschaftlern der DSMZ hervorgegangen sind. Es handelt sich dabei um fünf bakterielle Stämme die jeweils eine gute Adaption an die Böden verschiedener Klimazonen aufweisen. Sie sind beteiligt an Stickstoff- und Kohlenstoffkreisläufen (signifikante Exoenzymaktivitäten). Deshalb sind diese Stämme als wichtige biotische Komponenten ihrer Umwelt zu betrachten.

\*\* Blastocatella fastidiosa Foesel et al. 2013 A2 16 (-> http://bacdive.dsmz.de

### Upload Data

 (optional)

Try **dropping** some files here, or **click** to select files to upload.

### Data URL

 (optional)

Link to your data, e.g. cloud storage

### Info

Submission Id:

5c1b43df-0fbd-42b8-b5e2-38396047be12

Ticket:

DSUB-374

Do you need Help ?

### License

CC BY 4.0 change

### Legal Requirements

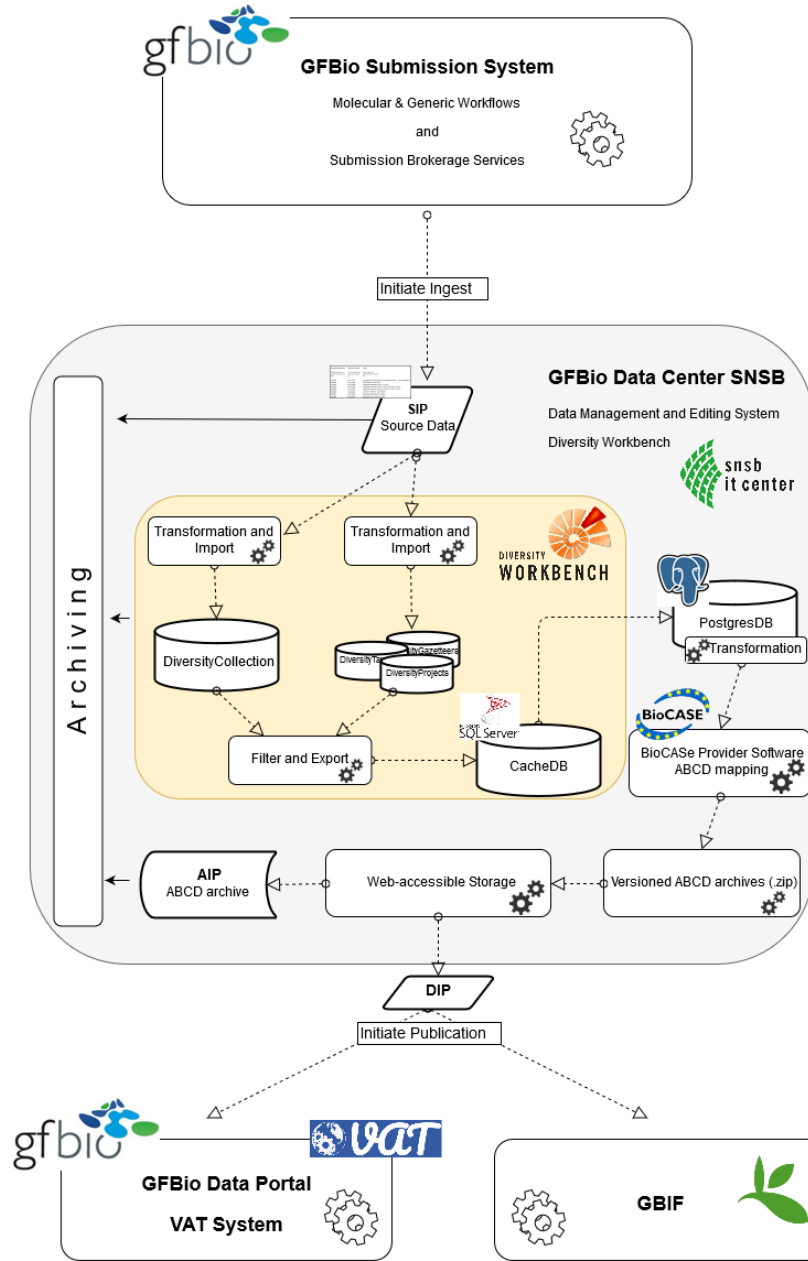
- Nagoya Protocol  
 IUCN Red List of Threatened Species  
 Sensitive Personal Information  
 Uncertain

### Metadata Templates

Molecular Data Template:

CSV Template

# DWB-BioCAsE-Datenpipeline



# Export via ABCD

## Data exchange standards, protocols and formats relevant for the collection data domain within the GFBio network

The Natural History Collections and Culture Collection BGBM, DSMZ, MfN, SGN, SMNS, SNSB, ZFMK with their evolving GFBio Collection Data Centers/ Data Archives are partners of several national and international initiatives and projects developing and using data exchange protocols and standards. During the first months of the GFBio project the partners collected and evaluated relevant technical documentations of existing domain-specific data exchange formats, interfaces and protocols with relevance for the interaction and harmonization between collection management systems and archive infrastructure as a whole (see table below). This table deals with collection standards, but it was decided to include **SDD**, **EML** and **GML** as well, as they are used and closely connected to the work within GFBio Collection Data Centers/ Data Archives.

This documentation is part of the process to identify existing and to install and integrate new data exchange mechanisms and protocols appropriate for the GFBio network. It provides useful information for software developers and data scientists to set up and run GFBio agreed standard exchange software solutions at the GFBio Collection Data Centers.

**Table: Data exchange standards, protocols and formats relevant for the collection data domain within the GFBio network**

*Note: Cells highlighted in grey indicate standards and protocols for which the GFBio Collection Data Centers/ Archives have expertise or which they use directly or indirectly.*

Standard/ Protocol - Acronym	Full name/ Version	Short description	Documentation/ Schema (URL)	Category	Data domain	Status	GFBio Collection Data Centers – Expertise	Notes/ References
<b>ABCD 2.06</b>	Access to Biological Collections Databases v2.06 (2007-06-13)	Standard for the access to and exchange of data about specimens and observations	<a href="#">XSD File</a> ; <a href="#">Schema</a>	Data Exchange Standard	Collection Archives	accepted (TDWG)	BGBM, DSMZ, MfN, SGN, SMNS, SNSB, ZFMK	[1] [2] [3]
<b>ABCD 2.1</b>	Access to Biological Collections Databases v2.1 (2014-05)	Enhanced version developed for GGBN and BINHum, but it will not be used by GBIF	<a href="#">XSD File</a> ; <a href="#">Schema</a>	Data Exchange Standard	Collection Archives	published	BGBM, MfN, SMNS, SNSB, ZFMK	
<b>ABCD 3.0</b>	Access to Biological Collections Databases v3 (2019-01-31)	New version now described as an XML Schema and an Ontology. This allows the access of the standard through semantic queries, encourages element reuse and serves as basis for future software and services in the area of semantic web.	<a href="#">XSD File</a> ; <a href="#">Schema</a> ; <a href="#">GitHub</a>	Data Exchange Standard	Collection Archives	published	BGBM, MfN	[4]
<b>ABCCDNA</b>	DNA Extension for ABCD v2.06 (2009-05-27)	Standardised XML Schema extension for ABCD to facilitate storage and exchange of data related to DNA collection units. It offers a rudimentary set of DNA-specific data (Sequences).	<a href="#">XSD File</a> ; <a href="#">Schema</a>	Data Exchange Standard	Collection Archives	draft (TDWG)	BGBM, DSMZ, SGN, SNSB (ZSM)	[5]
<b>ABCDEFG</b>	Access to Biological Collection Databases Extended for Geosciences	Standard developed for use with palaeontological, mineralogical and geological digitalized collection data	<a href="#">XSD File</a> ; <a href="#">Schema</a>	Data Exchange Standard	Collection Archives	proposed (TDWG)	BGBM, DSMZ, MfN, SGN, SMNS,	[6] [7]

# Export via ABCD

## Schema ABCD\_2.06.XSD

schema location: [http://www.bgbm.org/TDWG/CODATA/Schema/ABCD\\_2.06/ABCD\\_2.06.XSD](http://www.bgbm.org/TDWG/CODATA/Schema/ABCD_2.06/ABCD_2.06.XSD)  
 attribute form default: **unqualified**  
 element form default: **qualified**  
 targetNamespace: <http://www.tdwg.org/schemas/abcd/2.06>

- Elements **DataSets** **anyUriP**
- Aspect**
  - BotanicalGardenUnit**
  - Contact**
  - ContentMetadata**
  - Country**
  - CultureCollectionUnit**
  - DateTime**
  - Gathering**
  - HerbariumUnit**
  - HigherTaxon**
  - Identification**
  - ImageSize**
  - IPRStatements**
  - Label**
  - LabelRepr**
  - Lookup**
  - LookupL**
  - MeasurementOrFact**
  - MetadataDescriptionRepr**
  - MicroAgent**
  - MicroAgentP**
  - MultiMediaObject**
  - MycologicalUnit**
  - NameBacterial**
  - NameBotanical**
  - NamedArea**
  - NameViral**
  - NameZoological**
  - Organisation**
  - PalaeontologicalUnit**
  - PersonName**
  - PGRUnit**
  - Reference**
  - RevisionData**
  - ScientificName**
  - ScientificNameIdentified**
  - Sequence**
  - Statement**
  - Stratigraphy**
  - StringL**
  - StringL255**
  - StringLP**
  - StringLP255**
  - StringP**
  - StringP255**
  - TaxonIdentified**
  - TelephoneDevice**
  - TelephoneNumber**
  - Unit**
  - ZoologicalUnit**
- Complex types
- BiologicalStatus**
  - CodeOfNomenclatureEnum**
  - CollectingAcquisitionSource**
  - DateTimeISO**
  - Epithet**
  - FAOInstituteCode**
  - HigherTaxonRankEnum**
  - HybridFlag**
  - InstitutionCode**
  - Monomial**
  - RankAbbreviation**
  - RecordBasisEnum**
  - Role**
  - SexCodeEnum**
  - String**
  - String255**
  - String50**
  - TypeGermplasmStorage**

Seite [Diskussion](#)

## Data exchange standards,

The Natural History Collections and Culture Collections exchange protocols and standards. During the first harmonization between collection management systems within GFBio Collection Data Centers/ Data Archives.

This documentation is part of the process to identify GFBio agreed standard exchange software solutions.

### Table: Data exchange standards, protocols and

*Note: Cells highlighted in grey indicate standards and*

Standard/ Protocol - Acronym	Full name/ Version
<b>ABCD 2.06</b>	Access to Biological Collections Databases v2.06 (2007-06-1)
<b>ABCD 2.1</b>	Access to Biological Collections Databases v2.1 (2014-05)
<b>ABCD 3.0</b>	Access to Biological Collections Databases v3 (2019-01-31)
<b>ABCCDNA</b>	DNA Extension for ABCD v2. (2009-05-27)
<b>ABCDEFG</b>	Access to Biological Collections Databases Extended for Ger

[Deutsch](#) [Anmelden](#) [Benutzerkonto beantragen](#)

[Lesen](#) [Quelltext anzeigen](#) [Versionsgeschichte](#)

## within the GFBio network

of several national and international initiatives and projects developing and using data exchange formats, interfaces and protocols with relevance for the interaction and use **SDD**, **EML** and **GML** as well, as they are used and closely connected to the work

les useful information for software developers and data scientists to set up and run

Data domain	Status	GFBio Collection Data Centers – Expertise	Notes/ References
Collection Archives	accepted (TDWG <a href="#">☞</a> )	BGBM, DSMZ, MN, SGN, SMNS, SNSB, ZFMK	<a href="#">[1]</a> <a href="#">[2]</a> <a href="#">[3]</a>
Collection Archives	published	BGBM, MN, SMNS, SNSB, ZFMK	
Collection Archives	published	BGBM, MN	<a href="#">[4]</a>
Collection Archives	draft (TDWG <a href="#">☞</a> )	BGBM, DSMZ, SGN, SNSB (ZSM)	<a href="#">[5]</a>
Collection Archives	proposed (TDWG <a href="#">☞</a> )	BGBM, DSMZ, MN, SGN, SMNS,	<a href="#">[6]</a> <a href="#">[7]</a>



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# Export via ABCD



complexType Country	
diagram	
namespace	<a href="http://www.tdwg.org/schemas/abcd/2.06">http://www.tdwg.org/schemas/abcd/2.06</a>
children	<a href="#">Name</a> <a href="#">NameDerived</a> <a href="#">ISO3166Code</a>
used by	element <a href="#">Gathering/Country</a>
annotation	documentation <a href="#">Details of the country</a>
source	<pre>&lt;xs:complexType name="Country"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Details of the country&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:sequence&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation/&gt;     &lt;/xs:annotation&gt;     &lt;xs:element name="Name" type="StringL" id="cou" minOccurs="0"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation xml:lang="en"&gt;Name of country or major region for specimen or observation&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="NameDerived" type="StringL" minOccurs="0"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation xml:lang="en"&gt;Derived name of country or major region for specimen or observation&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="ISO3166Code" type="String" id="iso2" minOccurs="0"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation xml:lang="en"&gt;2- or 3-letter (ISO3166-1) or 4-letter (ISO3166-3) code for representation of name of country or origin.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt;</pre>

element Country/Name	
diagram	
namespace	<a href="http://www.tdwg.org/schemas/abcd/2.06">http://www.tdwg.org/schemas/abcd/2.06</a>
type	<a href="#">StringL</a>
properties	isRef 0 content complex id cou

# MIDS Schema im CETAF und DiSSCo Kontext

- Minimum Information about a Digital Specimen (MIDS)

## 4.1 Information elements expected at MIDS level 1

The information elements expected to be present in digital specimen data published at MIDS level 1 are listed in Table 2.

**Table 2: MIDS Level 1: Expected elements, mappings and recommendations for a basic record**

MIDS information elements	DwC term (latest, 2014-11-08)	ABCD term name (3.0)	Recommendations
1. CreatedOn (date/time of record creation)	<i>No equivalent</i>	hasDateCreated	Use [ISO 8601].
2. ModifiedOn (date/time of subsequent modification, if any)	modified	hasDateModified	Use [ISO 8601].
3. RecordCreator i) Name ii) Referent	<i>No equivalent</i> <i>No equivalent</i>	Creators <i>No equivalent</i>	Person's name. ORCID if known; else 'unknown'.
4. MIDSLevel	<i>No equivalent</i>	<i>No equivalent</i>	Integer, value = 1.
5. PhysicalSpecimenId (physical specimen identifier, barcode, catalog number, etc.)	catalogNumber	Id	Cardinality 0..n.
6. Institution i) Code ii) Referent	institutionCode <i>No equivalent</i>	sourceInstitutionID <i>No equivalent</i>	from GrSciColl. GRID/ROR; else 'unknown'.
7. MaterialType	preparations	preparationsText	
8. ScientificName i) Name appropriate to the specimen ii) Referent	scientificName  scientificNameID	FullScientificName  <i>No equivalent</i>	  A name identifier, uniquely identifying the name; else 'unknown'.

An image and/or other multimedia may be present (see 5 below).

# DWB-Datenexport über Cache-DBs und BioCASE

DiversityCollection v. 4.3.131

Connection Grid Query Data Administration Help

Cache database

Update, Sources Projects Anon. collectors Protocol Diagnostics BioCASE Old version Transfer all data

DiversityCollection DiversityCollectionCache01 DiversityCollectionCache\_BSMfungicoll on 10.153.18.210 5432 as Weibulat

Current version: 01.00.29 Project definitions: DiversityProjects

Current version: 00.00.17

Bulk transfer:

Taxa Taxa (webservice) Terms Agents References Plots Gazetteer

+ Add a source for agents

Database	View	Source	Transfer Status	Transfer Details
DiversityAgents	Agents_DWBagents	DWBagents	Completed	Nr. of datasets: 113 Last transfer: 2020-11-25 14:42:00
DiversityAgents	Agents_GLMaddresses	GLMaddresses	Completed	Nr. of datasets: 118 Last transfer: 2020-11-25 14:42:00
DiversityAgents	Agents_MBcollectors	MBcollectors	Completed	Nr. of datasets: 66 Last transfer: 2020-11-18 20:49:00
DiversityAgents_TNT	Agents_TNT_TaxRefagents	TaxRefagents	Completed	Nr. of datasets: 46 Last transfer: 2020-11-13 19:16:00
DiversityAgents	Agents_GLMaddresses	GLMaddresses	Completed	Nr. of datasets: 115 Last transfer: 2020-09-07 14:20:07
DiversityAgents	Agents_DWBagents	DWBagents	Completed	Nr. of datasets: 111 Last transfer: 2020-11-13 09:36:12
DiversityAgents	Agents_MBcollectors	MBcollectors	Completed	No data
DiversityAgents_TNT	Agents_TNT_TaxRefagents	TaxRefagents	Completed	Nr. of datasets: 46 Last transfer: 2020-11-13 09:36:33

order by: Acc. Nr.

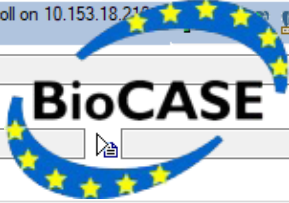
Query conditions

Projects

Specimen or parts

Collection specimen

Collection event





# DWB-Datenexport über Cache-DBs und BioCASE

DiversityCollection v. 4.3.131

Connection Grid Query Data Administration Help

Query results

Cache database

Update, Sources Projects Anon. collectors Protocol Diagnostics BioCASE Old version Transfer all data Add project

Projects published via the cache database and the current postgres database

Project	Cache database	Current postgres database
DiversityCollection	DiversityCollectionCache01	DiversityCollectionCache_BSMfungicoll
BIOTALichencoll	NOTHING PLANNED	DiversityCollectionCache_BSMfungicoll on 10.153.18.210, 5432 as Weibulat
Blettaucoll	NOTHING PLANNED	Not established
BSMeryscoll	Tu We Th Fr Sa 01:00:00	Not established
BSMfungicoll	NOTHING PLANNED	Su 00:00:00
BSMgrossebrcoll	NOTHING PLANNED	Not established

Query conditions

Projects

Specimen or parts

Collection specimen

Collection event

Localisation of the collection event

order by: Acc. Nr.

152 datasets withheld

1676 datasets  
Last update: 2020-06-24 11:16:06

1524 datasets  
Last transfer: 2020-11-23 16:12:01

3623 datasets  
Last update: 2017-10-27 14:08:55

3623 datasets  
Last transfer: 2020-11-13 18:22:28

6203 datasets  
Last update: 2020-11-02 14:45:41

6132 datasets  
Last transfer: 2020-11-13 18:16:57

14804 datasets  
Last update: 2020-08-06 16:19:59

6236 datasets  
Last transfer: 2020-11-13 18:13:19

8568 datasets withheld

6236 datasets  
Last transfer: 2020-11-13 18:13:19

5892 datasets  
Last update: 2020-09-29 14:19:32

5764 datasets  
Last transfer: 2020-11-13 18:04:59

BioCASE

ABCD

ABCD

# DWB-Datenexport über Cache-DBs und BioCASE

DiversityCollection v. 4.3.131

Connection Grid Query Data Administration Help

Cache database

Update, Sources Projects

Projects published via the cache database

DiversityCollection

**BIOTALichencoll**  
1676 datasets  
Last update:  
2020-06-24 11:16:06  
152 datasets withheld STOP

**Blettaucoll**  
3623 datasets  
Last update:  
2017-10-27 14:08:55  
0 datasets withheld STOP

**BSMeryscoll**  
6203 datasets  
Last update:  
2020-11-02 14:45:41  
71 datasets withheld STOP

**BSMfungicoll**  
14804 datasets  
Last update:  
2020-08-06 16:19:59  
8568 datasets withheld STOP

**BSMgrossebrcoll**  
5892 datasets  
Last update:  
2020-09-29 14:19:32

Query results

order by: Acc. Nr.

Query conditions

Projects

Specimen or parts

Collection specimen

Collection event

Localisation of the collection event

bioCASE Configuration Tool - BSMfungicoll

Home Overview Settings DB connection DB structure Archiving & Filtered export QueryForms Help Report a Bug

Mapping - ABCD\_2.06.xml  
http://www.tdwg.org/schemas/abcd/2.06

Generated	2005-07-06 14:39:18.15 by PyWrapper v2.0.0
Modified	2020-07-02 10:27:37
Record definition	/DataSets/DataSet/Units/Unit
Root table alias	Unit
Static table aliases	Metadata

Refresh Save Revert Test Mapping!

Show all concepts  or add new concepts by xpath identifier:

- Collapse all | + Expand all | Collapse unmapped

```
- DataSets
  DataSet
    - ContentContacts
      ContentContact
        Address
          Mapping1: ContentContact.Address(text)
        Email
          Mapping1: ContentContact.Email(text)
        Name
          Mapping1: ContentContact.Name(text)
        Phone
          Mapping1: ContentContact.Phone(text)
      DatasetGUID
        Mapping1: Metadata.DatasetGUID(text)
    - Metadata
      - Description
        - Representation
          @language
            Mapping1: "en"
          Details
            Mapping1: Metadata.Description_Representation_Details(text)
          Title
            Mapping1: Metadata.Description_Representation_Title(text)
          URI
            Mapping1: Metadata.Description_Representation_URI(text)
      - IPRStatements
        - Acknowledgements
          - Acknowledgement
            @language
              Mapping1: "en"
            Details
              Mapping1: Metadata.IPRStatements_Acknowledgement_Details(text)
            Text
              Mapping1: Metadata.IPRStatements_Acknowledgement_Text(text)
            URI
              Mapping1: Metadata.IPRStatements_Acknowledgement_URI(text)
        - Citations
          - Citation
            @language
              Mapping1: "en"
            Details
              Mapping1: Metadata.IPRStatements_Copyright_Details(text)
            Text
              Mapping1: Metadata.IPRStatements_Citation_Text(text)
            URI
              Mapping1: Metadata.IPRStatements_Citation_URI(text)
        - Copyrights
          - Copyright
            @language
              Mapping1: "en"
            Details
              Mapping1: Metadata.IPRStatements_Copyright_Details(text)
            Text
```

Save Powered by: BioCASE



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## Staatliche Naturwissenschaftliche Sammlungen Bayerns

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METRICS

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15,033,228 OCCURRENCES

79 DATASETS

546 CITATIONS

**Description:** The Bavarian Natural History Collections (Staatliche Naturwissenschaftliche Sammlungen Bayerns, SNSB) are a public consortium of scientific research institutions, natural history museums and a botanical garden. They are a sub-item of the Bavarian State Ministry of Sciences, Research and the Arts. All these institutions are located in Bavaria and have a wide range of tasks and goals. The data provided by the SNSB are processed by the SNSB IT Center ([www.snsb.info](http://www.snsb.info)). The data ownership is as cited under the single data resources.

**Endorsed by:** [GBIF Germany](#)

**Installations:** [DiversityTaxonNames Server](#) • [BioCASE Installation Staatliche Naturwissenschaftliche Sammlungen Bayerns](#)

**Administrative contact:** [Dagmar Triebel](#)

**Technical contact:** [SNSB IT Center](#)

**Country or area:** [Germany](#)

**Hosting:** [80 datasets](#) ( [2 publishers](#) • [2 countries](#) )



### CONTACTS

Staatliche Naturwissenschaftliche  
Sammlungen Bayerns  
München  
Germany  
<http://www.snsb.de>

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Technical point of contact  
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Dagmar Triebel  
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# Publikation bei GBIF



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15,033,228 OCCURRENCES 79 DATASETS 546 CITATIONS

ALL OCCURRENCE CHECKLIST SAMPLING EVENT METADATA

**Taxon list of fungi and fungal-like organisms from Germany compiled by the DGM** Checklist dataset

[http://www.diversitymobile.net/wiki/About\\_%22Taxon\\_list\\_of\\_fungi\\_and\\_fungal-like\\_organisms\\_from\\_Germany\\_compiled\\_by\\_the\\_DGM%22](http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_fungi_and_fungal-like_organisms_from_Germany_compiled_by_the_DGM%22)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

32.676 records

**Taxon list of animals with German names (worldwide) compiled at the SMNS** Checklist dataset

[http://www.diversitymobile.net/wiki/About\\_%22Taxon\\_list\\_of\\_animals\\_with\\_German\\_names\\_%28worldwide%29\\_compiled\\_at\\_the\\_SMNS%22](http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_animals_with_German_names_%28worldwide%29_compiled_at_the_SMNS%22)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

18.220 records

**Taxon list of vascular plants from Bavaria, Germany compiled in the context of the BFL project** Checklist dataset

[http://www.diversitymobile.net/wiki/About\\_%22Taxon\\_list\\_of\\_vascular\\_plants\\_from\\_Bavaria\\_Germany\\_compiled\\_in\\_the\\_context\\_of\\_the\\_BFL\\_project%22](http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_vascular_plants_from_Bavaria_Germany_compiled_in_the_context_of_the_BFL_project%22)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

13.631 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](http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_Hymenoptera_from_Germany_compiled_in_the_context_of_the_GBOL_project%22)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

11.471 records

**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](http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_Araneae_from_Germany_compiled_in_the_context_of_the_GBOL_project%22)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

1.647 records

**Taxon list of mosses from Germany compiled in the context of the GBOL project** Checklist dataset

[http://www.diversitymobile.net/wiki/About\\_%22Taxon\\_list\\_of\\_mosses\\_from\\_Germany\\_compiled\\_in\\_the\\_context\\_of\\_the\\_GBOL\\_project%22](http://www.diversitymobile.net/wiki/About_%22Taxon_list_of_mosses_from_Germany_compiled_in_the_context_of_the_GBOL_project%22)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

1.413 records



ALL OCCURRENCE CHECKLIST SAMPLING EVENT METADATA

**Floristic records from survey studies of the Bayerisches Landesamt für Umwelt** Occurrence dataset

[http://wiki.bayernflora.de/web/Floristic\\_records\\_from\\_survey\\_studies\\_of\\_the\\_Bayerisches\\_Landesamt\\_f%C3%BCr\\_Umwelt](http://wiki.bayernflora.de/web/Floristic_records_from_survey_studies_of_the_Bayerisches_Landesamt_f%C3%BCr_Umwelt)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

7.131.680 occurrences 44 citations

**Occurrence Data of Vascular Plants collected or compiled for the Flora of Bavaria** Occurrence dataset

[http://wiki.bayernflora.de/web/Flora\\_of\\_Bavaria\\_%E2%94%80\\_occurrence\\_data\\_online](http://wiki.bayernflora.de/web/Flora_of_Bavaria_%E2%94%80_occurrence_data_online)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

7.005.170 occurrences 158 citations

**IBF Monitoring of Vascular Plants** Occurrence dataset

[http://www.diversitymobile.net/wiki/IBFplantscoll\\_About](http://www.diversitymobile.net/wiki/IBFplantscoll_About)

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

198.240 occurrences 127 citations

**The Fungal Collection at the Senckenberg Museum für Naturkunde Görlitz** Occurrence dataset

<http://www.gbif-mycology.de/DatabaseClients/GLMcoll/About.cfm>

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

158.033 occurrences 215 citations

**Fungus Collections at Staatliches Museum für Naturkunde Karlsruhe (Herbarium KR)** Occurrence dataset

<http://www.smnk.de/en/collections/botany/fungi/>

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

73.221 occurrences 263 citations

**The Vascular Plant Collection at the Botanische Staatssammlung München** Occurrence dataset

<http://www.botanischestaatssammlung.de/DatabaseClients/BSMvplantscoll/About.html>

Published by Staatliche Naturwissenschaftliche Sammlungen Bayerns

51.973 occurrences 267 citations

**The Environmental Sample Collection of Spiders at the Staatliches Museum für Naturkunde Karlsruhe** Occurrence dataset

# Publikation bei GBIF



## The Fish Collection at t

Publishe

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<http://www.snsb.info/DatabaseClients/ZSMpiscescoll/About.html>

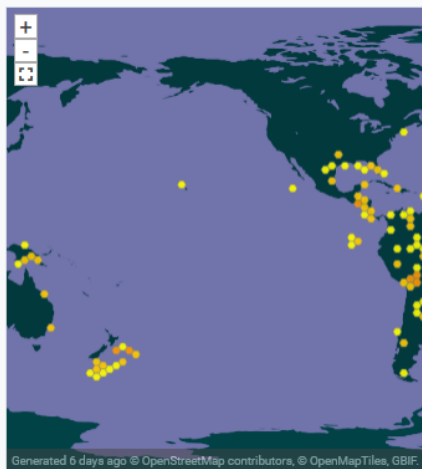


16,810  
Occurrences



100%  
With tax

9,730 GEOREFERENCED RECORDS



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Any year 1852 - 2015

496 OCCURRENCES WITH IMAGES

496 OCCURRENCES WITH IMAGES



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Description

Contacts

Data description

GBIF registration

Citation

## Description

<http://www.snsb.info/DatabaseClients/ZSMpiscescoll/About.html>

## Contacts

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Technical point of contact  
[snsb-it-center@snsb.de](mailto:snsb-it-center@snsb.de)

Dirk Neumann  
Administrative point of contact  
[Dirk.Neumann@snsb.de](mailto:Dirk.Neumann@snsb.de)

## Data description

Metadata language: English

## GBIF registration

Registration date: May 12, 2015

Metadata last modified: January 23, 2020

Hosted by: Staatliche Naturwissenschaftliche Sammlungen Bayerns

Installation: BioCASE Installation Staatliche Naturwissenschaftliche Sammlungen Bayerns

Endpoints: <http://biocase.snsb.info/wrapper/pywrapper.cgi?dsa=ZSMpiscescoll> (BioCASE) •  
[http://biocase.snsb.info/wrapper/downloads/ZSMpiscescoll/The%20Fish%20Collection%20at%20the%20Zoologische%20Staatssammlung%20Munchen.ABCD\\_2.06.zip](http://biocase.snsb.info/wrapper/downloads/ZSMpiscescoll/The%20Fish%20Collection%20at%20the%20Zoologische%20Staatssammlung%20Munchen.ABCD_2.06.zip) (BioCASE XML Archive)

Preferred identifier: DOI [10.15468/fzn9sv](https://doi.org/10.15468/fzn9sv)

See details in the GBIF Registry

## Citation

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- [Bunk, Boyke\(2\)](#)
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- [Hodge, Jonathan\(2\)](#)
- [Oakley, Kim\(2\)](#)
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Data Center: Data Center SNSB

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Parameters: Multimedia Object; Locality; Date; Latitude; Longitude

Dataset Citation: Kölbl-Ebert, M. (2018). The Fossil Fish Collection at the Jura-Museum Eichstätt. [Dataset]. Version: 20181207. Data Publisher: Staatliche Naturwissenschaftliche Sammlungen Bayerns - SNSB IT Center, München. <http://www.snsb.info/DatabaseClients/JMEpiscescoll/About.html>

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[Phragmidium mucronatum \(Pers.\) Schtdl., a preserved specimen record of the "The Fungal Collection at the Botanische Staatssammlung München" dataset \[ID: M-0222815 / 633630 / 290944\]](#)

Data Center: Data Center SNSB

Summary: <http://www.botanischestaatssammlung.de/DatabaseClients/BSMfungicoll/About.html>

Parameters: Multimedia Object; Locality; Date; Latitude; Longitude

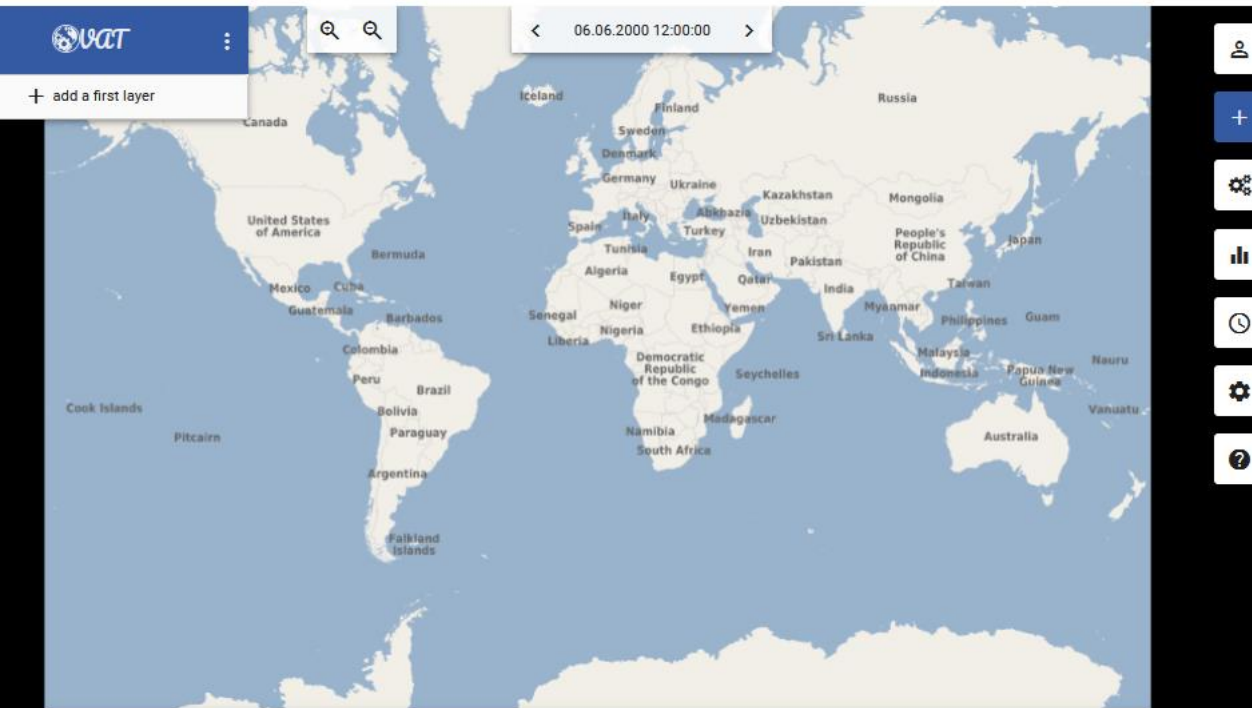
Dataset Citation: Triebel, D. (2018). Fungi at the Botanische Staatssammlung München. [Dataset]. Version: 20181207. Data Publisher: Staatliche Naturwissenschaftliche Sammlungen Bayerns - SNSB IT Center, München. <http://www.botanischestaatssammlung.de/DatabaseClients/BSMfungicoll/About.html>

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- IBF Monitoring of Orthoptera
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- The Fossil Fish Collection at the Jura-Museum Eichstätt
- The Fungal Collection at the Botanische Staatssammlung München

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- BIOTA Southern Africa - The Collection of Lichens at the Botanische ... [✗]
- Floristic records from survey studies of the Bayerisches Landesamt ... [✗]
- IBF Monitoring of Fungi [✗]
- IBF Monitoring of Lichens [✗]
- IBF Monitoring of Orthoptera [✗]
- IBF Monitoring of Vascular Plants [✗]
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- The Fossil Fish Collection at the Jura-Museum Eichstätt [✗]
- The Fungal Collection at the Botanische Staatssammlung München [✗]

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Citation: Triebel, Dagmar (2020). The Fungal Collection at the Botanische Staatssammlung München. [Dataset]. Version: 20201113. Data Publisher: Staatliche Naturwissenschaftliche Sammlungen Bayerns – SNSB IT Center, München. <http://www.botanische-staatssammlung.de/DatabaseClients/BSMfungicoll/About.html>.  
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**Operators**

Search

Mixed

- Raster Polygon Clip**  
Clip a raster image via polygon boundaries
- Raster Value Extraction**  
Attach raster values to vector data
- R Script**  
Execute an R script (experimental)

Plots

- Box Plot**  
Box plot your data
- Histogram**  
Create a histogram from vector or raster data
- Layer Statistics**  
Get statistics for any layer
- Pie Chart**  
Plot your data as a pie chart
- Scatter Plot**  
Scatter plot your data
- Time Plot**  
Plot time data

Raster

- Expression**  
Calculate an expression on a raster

[Data Table](#)      [Citations](#)

Citation: Triebel, Dagmar (2020). The Fungal Collection at the Botanische Staatssammlung München. [Dataset]. Version: 20201113. Data Publisher: Staatliche Naturwissenschaftliche Sammlungen Bayerns – SNSB IT Center, München. <http://www.botanischestaatssammlung.de/DatabaseClients/BSMfungicoll/About.html>.  
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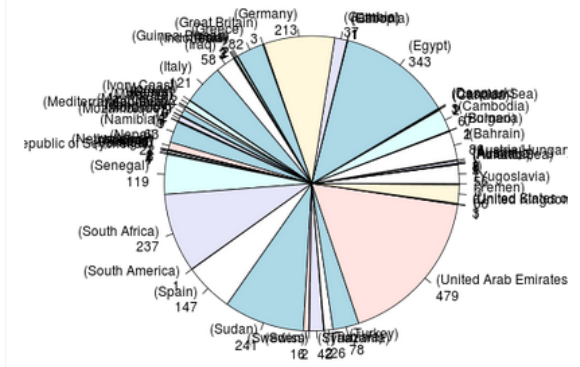
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## > Plots

**Pie chart plot of The Pisces Collection at the Staatssammlung für Anthropologie und Paläoanatomie München**

Pie Chart



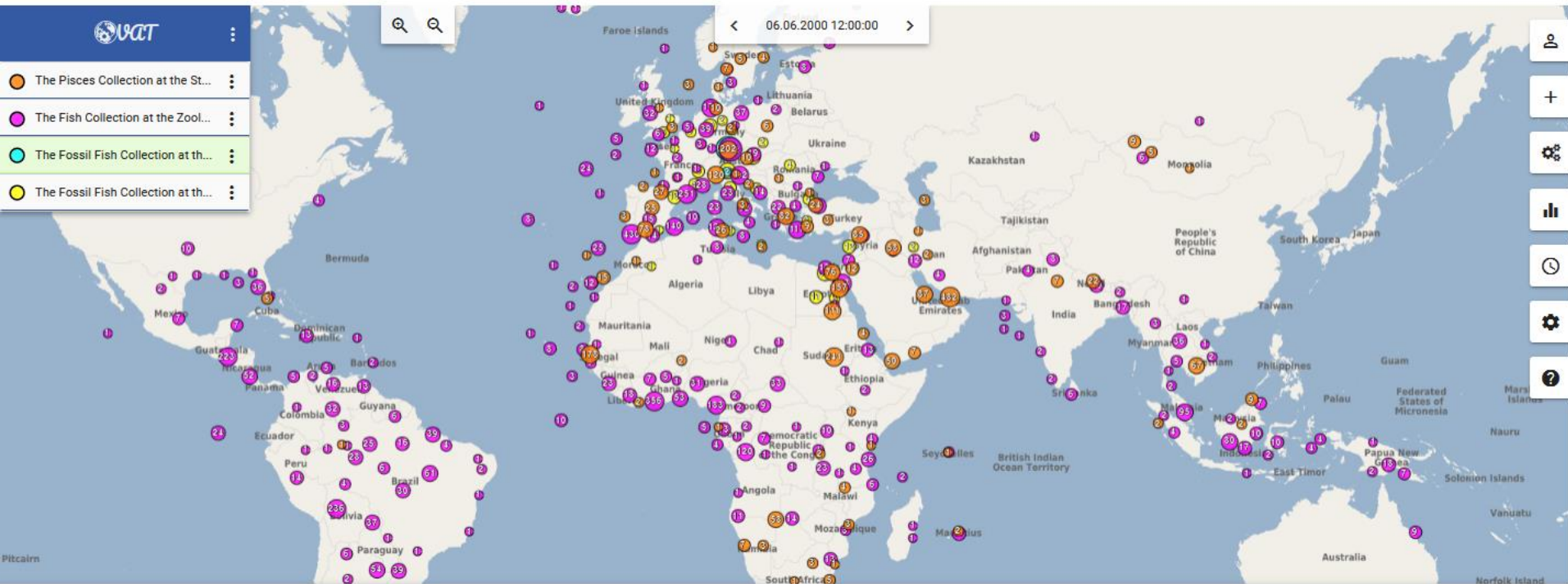
**Pie chart plot of The Fungal Collection at the Botanische Staatssammlung München**

Pie Chart

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[Citations](#)

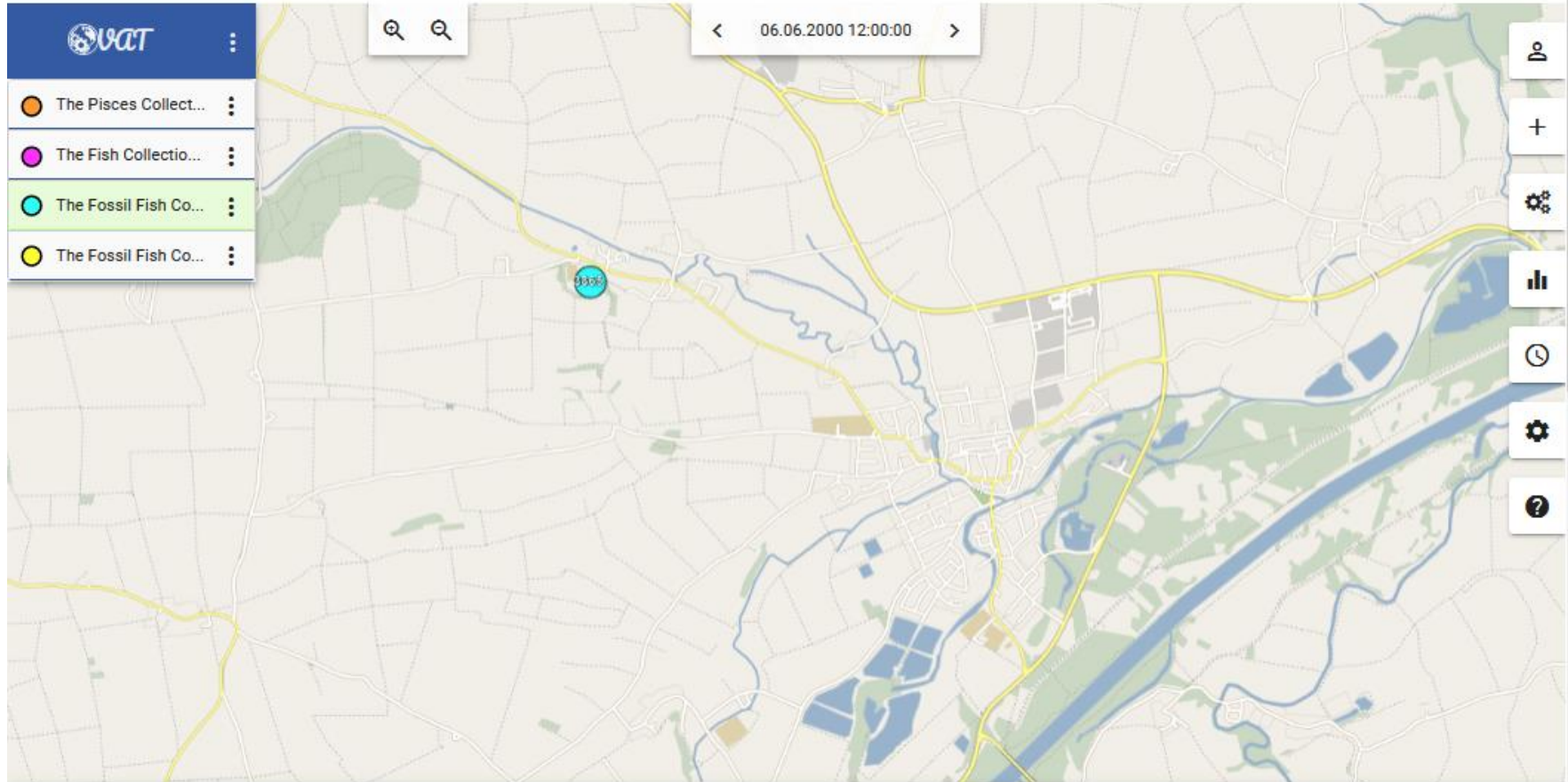
Citation: Obermaier, Henriette & Pöllath, Nadja (2020). The Pisces Collection at the Staatssammlung für Anthropologie und Paläoanatomie München. [Dataset]. Version: 20201124. Data Publisher: Staatliche Naturwissenschaftliche Sammlungen Bayerns – SNSB IT Center, München. <http://www.snsb.info/DatabaseClients/SAPMpiscescoll/About.html>.  
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Citation: Ebert, Martin; Kölbl-Ebert, Martina & Ifrim, Christina (2020). The Fossil Fish Collection at the Jura-Museum Eichstätt. [Dataset]. Version: 20201124. Data Publisher: Staatliche Naturwissenschaftliche Sammlungen Bayerns – SNSB IT Center, München. <http://www.snsb.info/DatabaseClients/JMEpiscescoll/About.html>.

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