

Die Rolle von DWB in der Daten- und Sammlungsinfrastruktur des LIB Museum Koenig

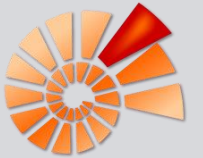
Birgit Klasen
LIB Museum Koenig, Bonn

22. Juni 2022

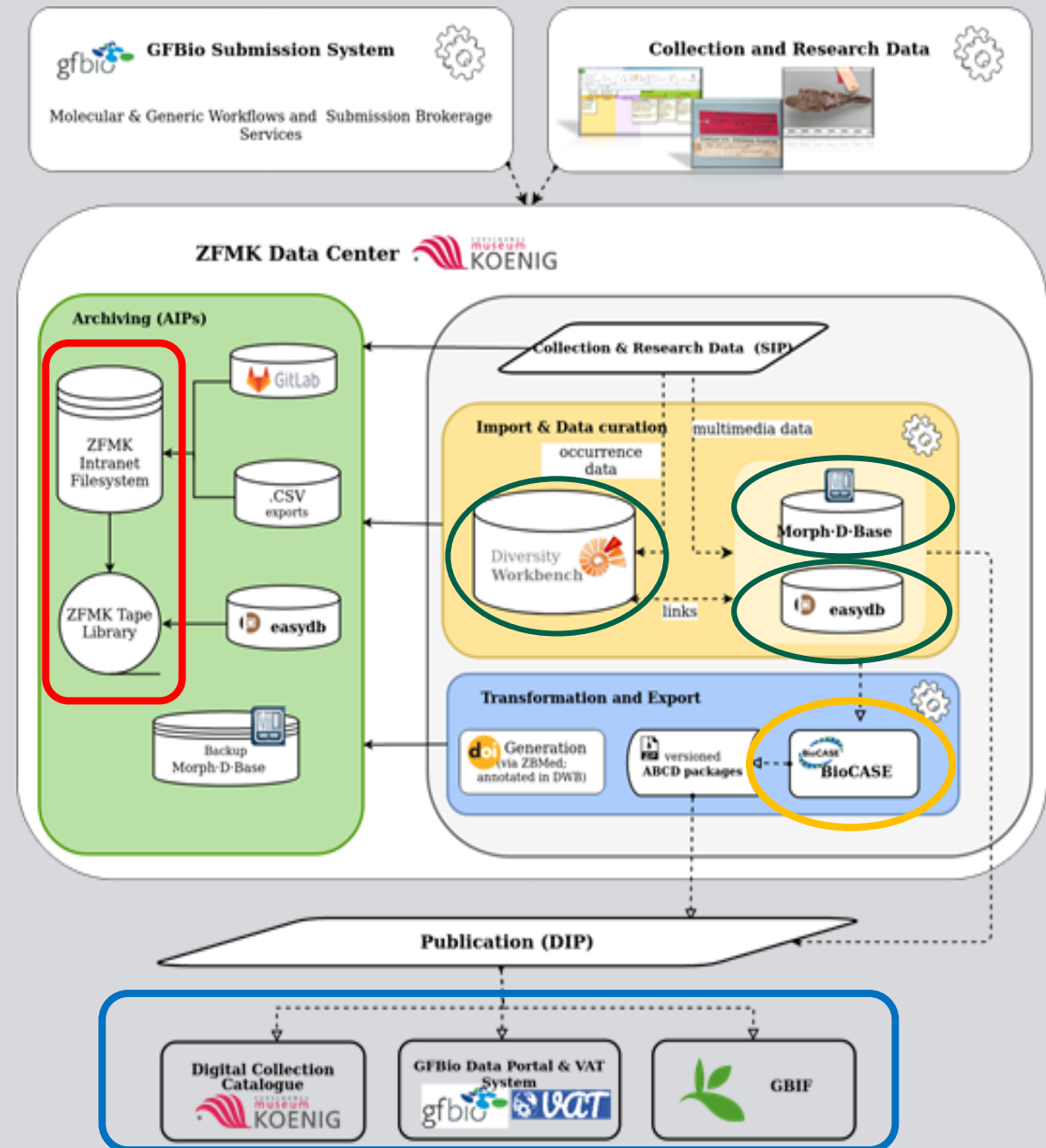


Komponenten der Daten- und Sammlungsinfrastruktur am LIB

- **DWB** – Framework für Sammlungsdaten und Metadaten
- **easydb** – Asset Management System für Bilder und Filme (<https://media.leibniz-lib.de>)
- **morphDBase** – Online-Datenbank für Filme und ct-Scans (<https://morphdbase.de>)
- **Geneious** – Software zur Analyse von Sequenzdaten
- **Digitaler Sammlungskatalog** (<https://collections.leibniz-lib.de>)
- **BioCASE Provider Software** - Publishing Software (z.B. zu GBIF, GFBio /NFDI)



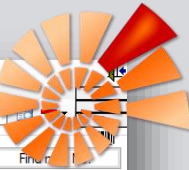
Komponenten in BioCASE-Daten-Pipeline der GFBio-Datencenter



DiversityCollection als Sammlungsdatenverwaltung

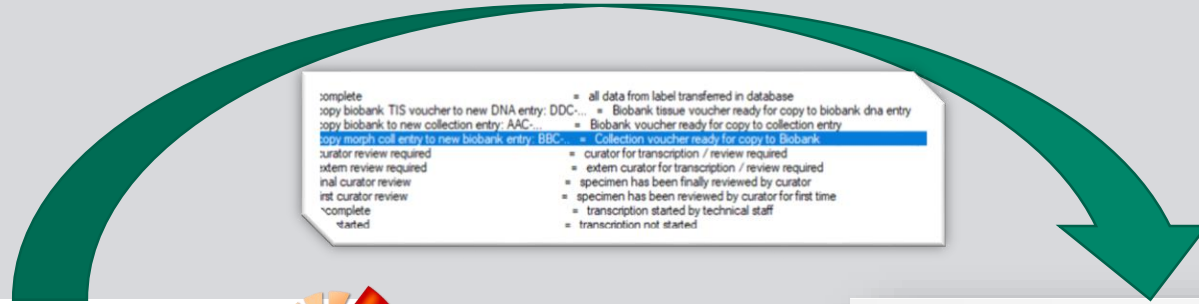
Import der
Sammlungsdaten
mit dem
Import Wizard

The screenshot displays the DiversityCollection software interface. The main window shows a tree view of specimen data for *Crocidura longipes* Hutterer and Happold, 1983. The tree includes details such as altitude (67 m NN), coordinates (Longitude: -11.853072166, Latitude: 8.109063148), and various morphological measurements (body length: 166 mm, head and body: 97 mm, tail: 69 mm, hind foot: 17 mm, ear: 12 mm, body weight: 18 g). A tissue sample (ZFMK-TIS-59823) and a duplicate record (REL-224844601) are also listed. The interface includes a top navigation bar with 'Specimen', 'Event', 'Version', and 'Withhold' tabs. A right-hand panel contains a 'Collection specimen' form with fields for 'Number', 'Depositor', 'Source', 'Acc. date', and 'State'. Below this are sections for 'Projects' and 'Notes'. A bottom status bar shows creation and last change dates and user information.



Zusammenarbeit verschiedener Sektionen

Kopieren und Verknüpfung zwischen verschiedenen Sammlungen (morphologische Sammlung ↔ Biobank)

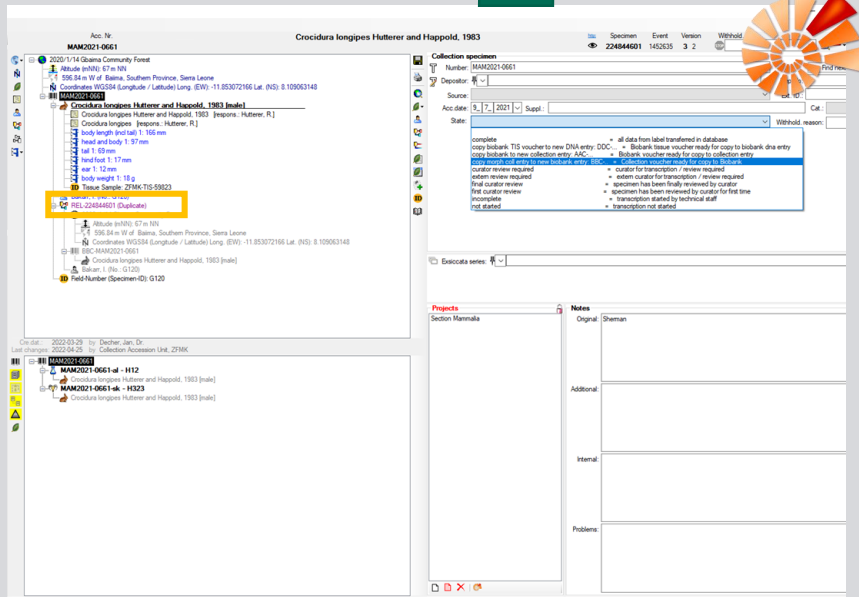


complete
 copy biobank TIS voucher to new DNA entry: DDC... = all data from label transferred in database
 copy biobank TIS voucher to new collection entry: AAC... = Biobank tissue voucher ready for copy to biobank dna entry
 copy biobank coll entry to new biobank entry: BBC... = Biobank voucher ready for copy to collection entry
 copy morph coll entry to new biobank entry: BBC... = Collection voucher ready for copy to Biobank

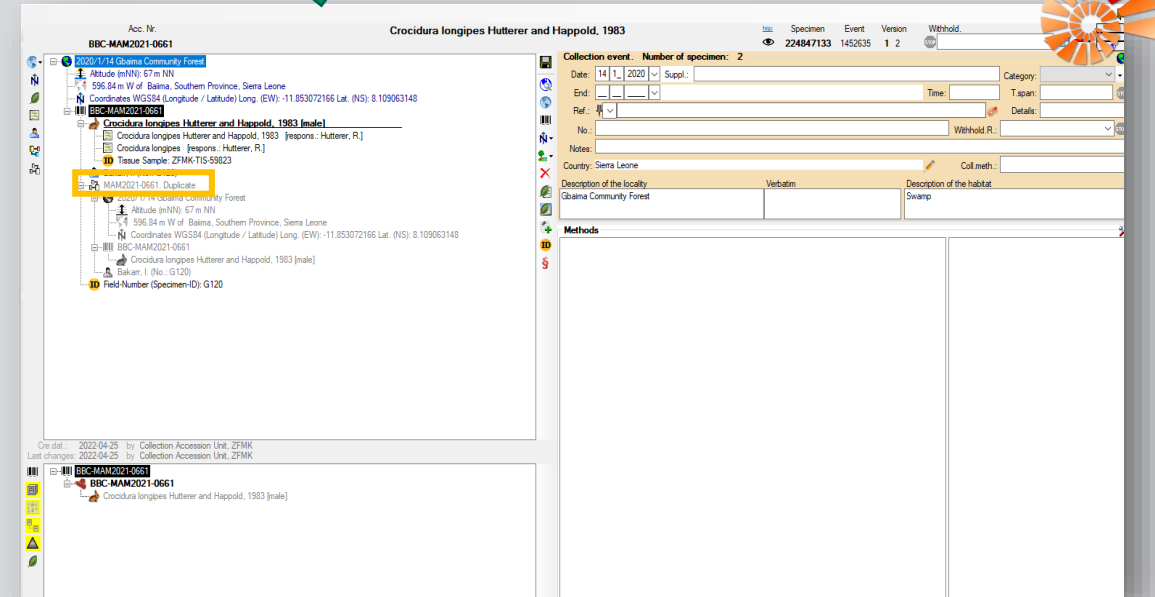
curator review required = curator for transcription / review required
 extem review required = extem curator for transcription / review required
 inal curator review = specimen has been finally reviewed by curator
 rst curator review = specimen has been reviewed by curator for first time
 ~complete = transcription started by technical staff
 *started = transcription not started

Skript

- kopiert
- ändert Daten
- fügt interne Relation ein



Sektion Mammalia



Sektion Biobank

DC als Schnittstelle zu externen Datenbanken

Verlinkung zu extern gespeicherten Medien in *easydb* und *MorphDBase*
(Voraussetzung: stabile und öffentliche URL)

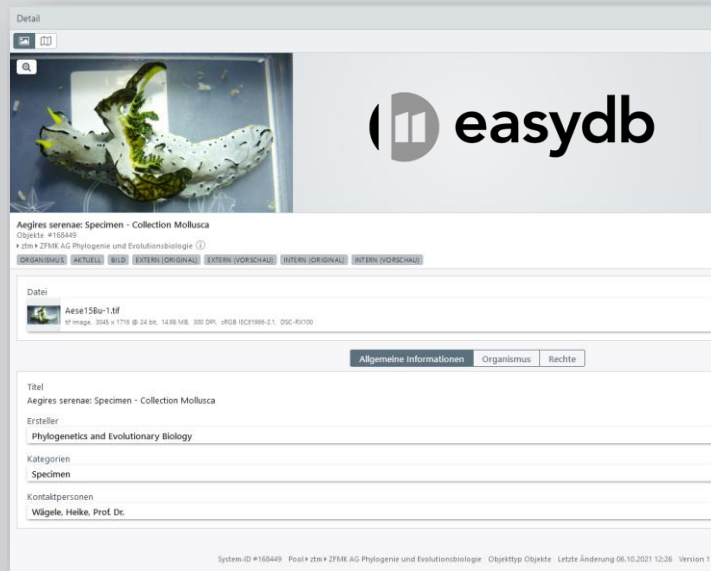
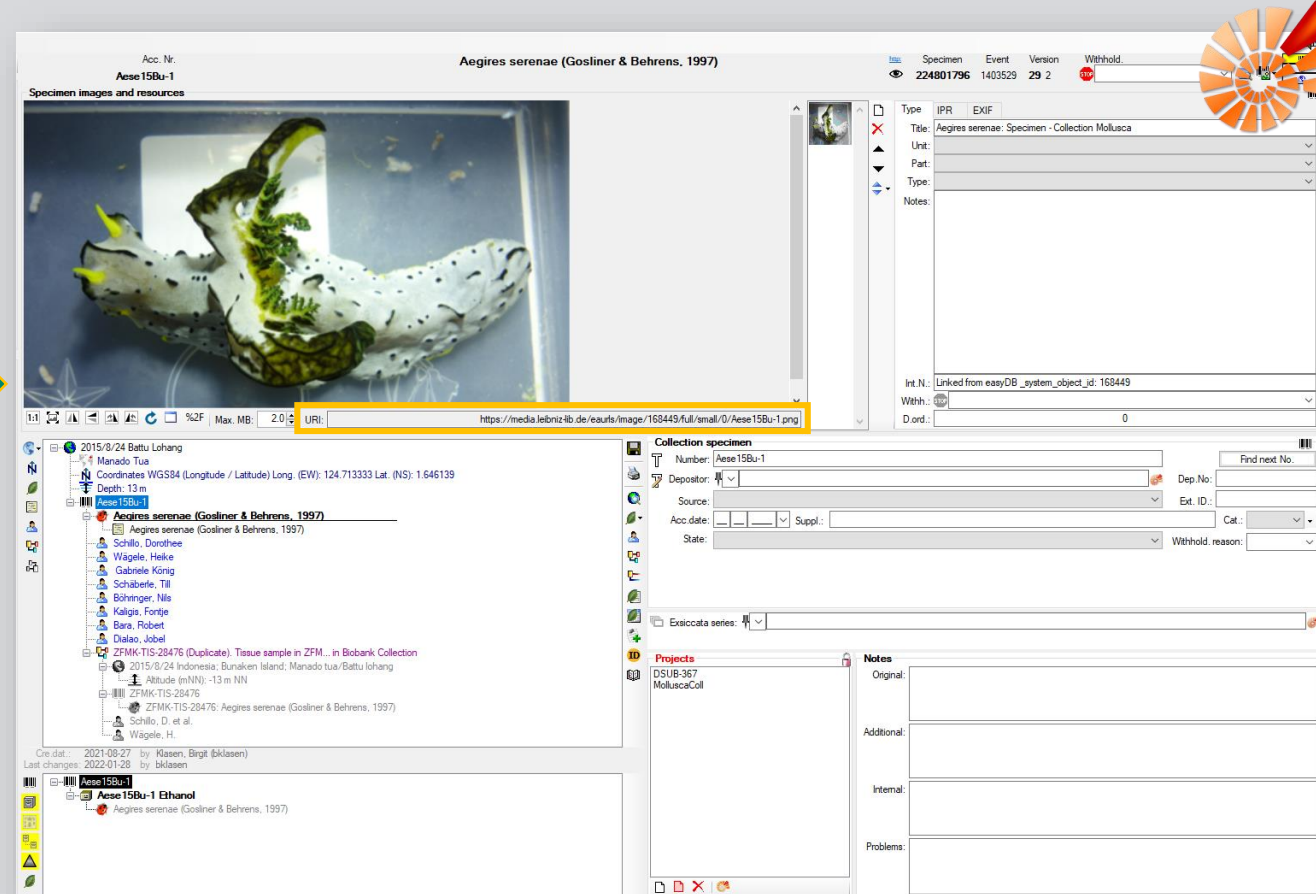


Bild in easydb



Link in DiversityCollection

Datenerschneidung mit Laborsoftware

Import der Labordaten
aus *Geneious* als Analyse
(z.B. beim GBOL-Projekt)



geneious by Dotmatrix

Name	Bin	Taxonomy	Ambiguities	HQ%	Sequence ID	Prot-Trm	%
26615_ZFMK-TIS-2258_A5	High	Arachnida; Limniphidae; Teniphotus flavipes	0	100.0%	658	658	27%
26616_ZFMK-TIS-2259_A6	High	Arachnida; Limniphidae; Limniphia hortensis	0	99.8%	658	658	22%
26618_ZFMK-TIS-2261_A8	High	Arachnida; Limniphidae; Marcarops rufus	0	100.0%	658	658	22%
26620_ZFMK-TIS-2263_A10	High	Arachnida; Clubionidae; Clubiona terrestris	0	99.8%	658	658	22%
26622_ZFMK-TIS-2264_A12	High	Arachnida; Argasidae; Argasomma acuminata	0	99.2%	658	658	22%
26624_ZFMK-TIS-2265_A14	High	Arachnida; Tetranychidae; Tetranychus paleros	0	99.1%	658	658	22%
26626_ZFMK-TIS-2266_B1	High	Arachnida; Araneidae; Araneus stormi	0	100.0%	658	658	22%
26628_ZFMK-TIS-2267_B2	High	Arachnida; Thomisidae; Nystosea crustacea	0	100.0%	658	658	22%
26630_ZFMK-TIS-2268_B3	High	Arachnida; Salticidae; Synagelx venator	0	98.9%	658	658	22%
26632_ZFMK-TIS-2269_B4	High	Arachnida; Limniphidae; Teniphotus cristatus	0	100.0%	658	658	22%
26634_ZFMK-TIS-2270_B5	High	Arachnida; Araneidae; Araneus stromi	0	100.0%	658	658	22%
26636_ZFMK-TIS-2271_B6	High	Arachnida; Lecosidae; Alpacorea puereriana	0	99.4%	658	658	22%
26638_ZFMK-TIS-2272_B7	High	Arachnida; Clubionidae; Clubiona cornuta	0	99.8%	658	658	22%
26640_ZFMK-TIS-2273_B8	High	Arachnida; Salticidae; Gephyrus frontalis	0	100.0%	658	658	22%
26642_ZFMK-TIS-2274_B9	High	Arachnida; Salticidae; Ivaricha falcata	0	100.0%	658	658	22%
26644_ZFMK-TIS-2275_B10	High	Arachnida; Limniphidae; Mavo sumatrensis	0	100.0%	658	658	22%
26646_ZFMK-TIS-2276_B11	High	Arachnida; Limniphidae; Wavunia sumatrensis	0	100.0%	658	658	22%
26648_ZFMK-TIS-2277_B12	High	Arachnida; Limniphidae; Walckenaeria cucullata	0	100.0%	658	658	22%
26650_ZFMK-TIS-2278_C1	High	Arachnida; Phollocaridae; Tibellus oblongus	0	100.0%	658	658	22%
26652_ZFMK-TIS-2279_C2	High	Arachnida; Caprimulidae; Heliodes silvestris	0	100.0%	658	658	22%
26654_ZFMK-TIS-2280_C3	High	Arachnida; Dictynidae; Nigma puella	0	100.0%	658	658	22%
26656_ZFMK-TIS-2281_C4	High	Arachnida; Limniphidae; Gongylimus rufipes	0	100.0%	658	658	22%
26658_ZFMK-TIS-2282_C5	High	Arachnida; Salticidae; Heliophanus copres	0	100.0%	658	658	22%
26660_ZFMK-TIS-2283_C6	High	Arachnida; Clubionidae; Clubiona stigmatidis	0	100.0%	658	658	22%
26662_ZFMK-TIS-2284_C7	High	Arachnida; Haniidae; Habina montana	0	100.0%	658	658	22%
26664_ZFMK-TIS-2285_C8	High	Arachnida; Haniidae; Antistesia elegans	0	99.8%	658	658	22%
26666_ZFMK-TIS-2287_C10	High	Arachnida; Salticidae; Neon reticulatus	0	99.8%	658	658	22%
26668_ZFMK-TIS-2288_C11	High	Arachnida; Limniphidae; Ptyobambates phytolaci	0	99.8%	658	658	22%
26670_ZFMK-TIS-2289_C12	High	Arachnida; Araneidae; Ageleneta redii	0	100.0%	658	658	22%
26672_ZFMK-TIS-2290_D1	High	Arachnida; Araneidae; Amurepeus similis	0	100.0%	658	658	22%
26674_ZFMK-TIS-2291_D2	High	Arachnida; Araneidae; Amphipnea accreticola	0	100.0%	658	658	22%
26676_ZFMK-TIS-2292_D3	High	Arachnida; Tetragnathidae; Metellina merianae	0	95.7%	658	658	22%
26678_ZFMK-TIS-2293_D4	High	Arachnida; Limniphidae; Diplocephalus concolor	0	99.7%	658	658	22%
26680_ZFMK-TIS-2294_D5	High	Arachnida; Limniphidae; Neriene montana	0	99.7%	658	658	22%

Acc. Nr. ZFMK-TIS-11551
Specimen images and resources

Carabus nitens L., 1758

Specimen: 11551, Event: 55952, Version: 22, Withhold: 5

Type: IPR EXIF

Title:
Unit:
Part:
Type:
Notes:

Int.N.: Unlinked from easyDB_system_object_id: 65360
With: []
D.ord.: 0

2012/8/1 Bad Klosterlausnitz, Südost, Muna
Bad Klosterlausnitz, Saale-Holzland-Kreis
Thuringen
Coordinates WGS84 (Longitude / Latitude) Long. (EW): 11.9173 Lat. (NS): 50.9006

ZFMK-TIS-11551
Carabus nitens L., 1758

Barcode_Analyse161 (2015-03-02 10:54:50) 27120. 3 meth. (Barcode...)

URI: []
Date: 2015-03-02 10:54:50

Responses: GBOL-ZFMKLab

```

Result: AAC TTTAATTTTTTTT TGGTGTGGTAGGAACTCATTAGAATACAA TTAGAGCCGAATAGGTAATCTGGATCCTTAATGGAG
ATGATCAAATTTATAATGTTTGTGAACAGCCCATGCTTTGTGAAATTTTTTTTATAGTTAGTCCCTATTATAATGGAGGATTTGAAATGATTGTT
CCTTTAATATTAGGAGCTCGATATAGCATCCCTCGAATAACAATAGATTTGATGTA TACCCCTTCTTAAATAGAGCATATA
GTGGAAGAGGCGGCGAGAGGATAGCTGTATCCCTCGCTTCTCGGAAATGCTACAGAGGATACAGTACAGCTAGGAAATTTTGAGATTAC
ATTTAGCAGGATCTTCATTCTAGGAGCAATAATTTTACAGCAATTAATATACAGTACAGTACAGTACCAATTTTATCAGTACCAATTC
GTATGATCTGAGTATTACAGCAATTAATTTTACCTGTAATACCGCGAGCTATTACTGTTTACAGATCAAGAAATTTAAATCCTCTT
TTTTTGATCTGACGAGGAGGGTATCTATTCTTATCAACATTTTTT
  
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Notes: L2F insert

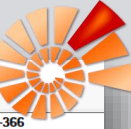
Methods

Barcode 9	project
Sequencing 2	region
Sequencing 3	sequence
	sequence_length
	trace_count

Parameter value: GBOL

Mark: 9

Metadatenverwaltung in DiversityProjects



- Verwaltung projektweiter Metadaten
- Import der Metadaten bei GFBio-Projekten
- Einstellungen zur Veröffentlichung

The screenshot displays the DiversityProjects software interface, version 4.1.57, with the database set to DiversityProjects_ZFMK. The main window shows the project details for DSUB-366, including a description, URI, and various settings. The left sidebar contains a tree view of the project structure, and the bottom right shows a detailed view of the project's metadata, including contact information and licenses.

Project: DSUB-366

Title: First Study on Marine Heterobranchia (Gastropoda, Mollusca) in Bangka Archipelago, North Sulawesi, Indonesia

Description: As ephemeral, benthic, secondary consumers usually associated with sessile coral reef organisms, marine heterobranchs are good indicators of the health of marine tropical habitats. Thus, marine Heterobranchia have recently become a major target for monitoring programs. For this work, an extensive survey was made in Bangka Archipelago, the first of its kind in this area. Bangka Archipelago is composed of small islands and the adjacent coastline of North Sulawesi. The substrate is dominated by biogenic reefs and volcanic rocks, thus forming highly diverse habitats. In total, 149 species were collected and/or photo-documented in September 2017 and September 2018, which represents the dry season. They can be assigned to the Cephalaspidia, Aplysida, Pleurobranchida, Nudibranchia, and Eupulmonata. Thirty-three species are new to science, highlighting the lack of knowledge about the group and especially about this region. Our data provide a baseline for future monitoring surveys, as the anthropogenic pressures on Bangka Archipelago are increasing due to enhanced touristic activities, but also due to large scale environmental changes caused by previous mining operation activities.

URI: <https://media.zfmk.de/detail/168721>

Version: 1

Embargo: 2021-10-31 00:00:00

Settings Agents IPR & Licenses Resources Citations & References Descriptor IDs OAIP Modules

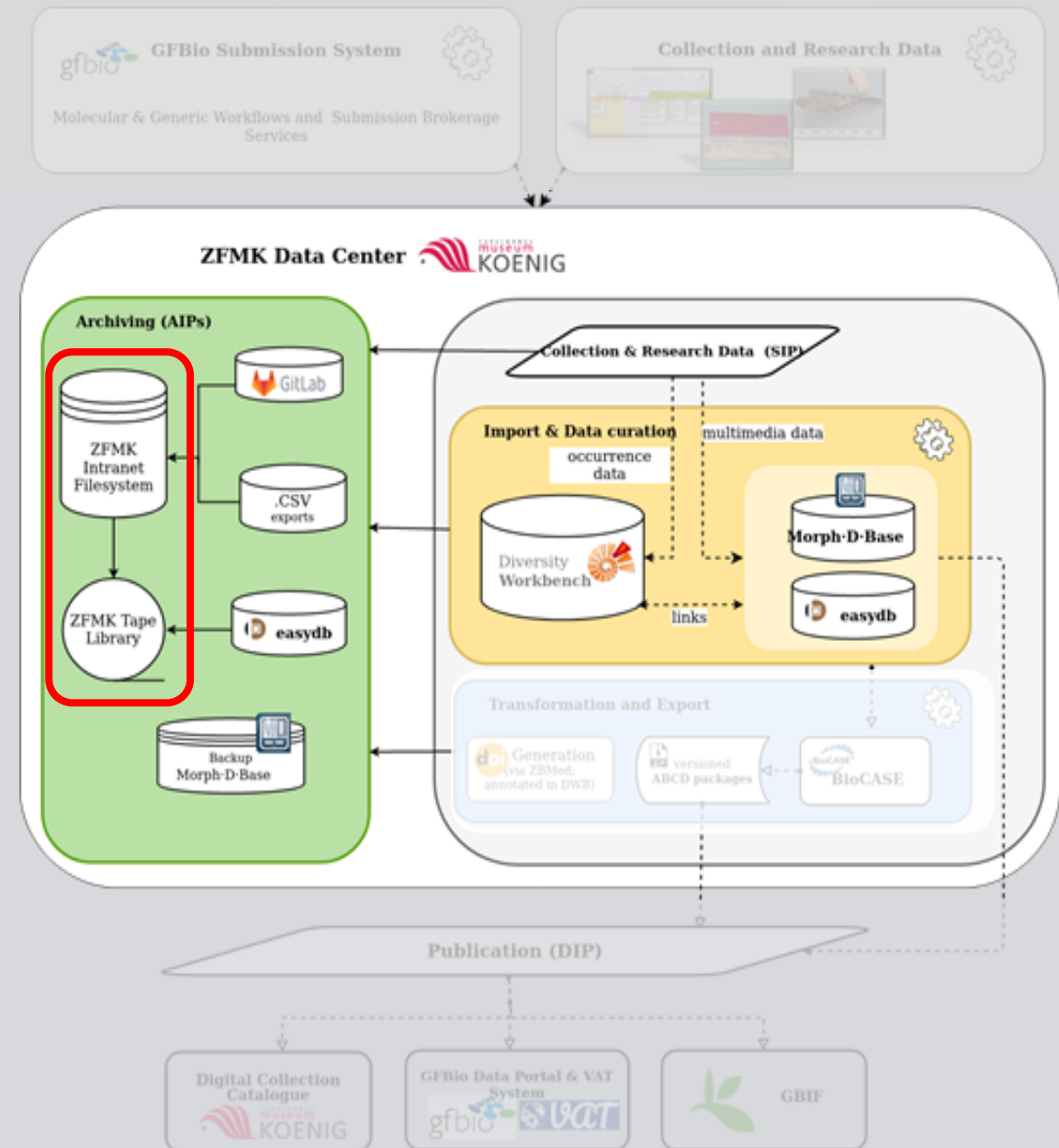
ABCD

- Default
 - BiocaseDSA: GFBio-v2 [GFBio]
 - InstitutionID: ZFMK/UNSRAT
 - SourceID: Phyllo-Mollusca
- ContentContact
 - ContentContactName: Adelfia Papu
 - ContentContactEmail: adelfia.papu@unsrat.ac.id
 - ContentContactPhone:
 - ContentContactAddress: Faculty of mathematics and Sciences, Sam Ratulangi University, Manado, Indonesia
- TechnicalContact: [GFBio]
 - TechnicalContactName: LIB Biodiversity Datacenter [GFBio]
 - TechnicalContactEmail: datacenter@leibniz-lb.de [GFBio]
 - TechnicalContactPhone: 0049 (0) 2289122342 [GFBio]
 - TechnicalContactAddress: Leibniz-Institute for the Analysis of Biodiversity Change - Adenauerallee 127, 53113 Bonn, Germany [GFBio]
- Owner: ZFMK & UNSRAT
 - OwnerEmail: h.waagele@leibniz-zfmk.de & adelfia.papu@unsrat.ac.id
 - OwnerOrganisation: Zoological Research Museum Koenig - Leibniz Institute for Animal Biodiversity & Sam Ratulangi University
 - OwnerOrganisationAbbreviation: ZFMK & UNSRAT
 - OwnerOrganisationUnit: Phylogenetic & Faculty of Mathematics and Sciences
 - OwnerAddress: Adenauerallee 160, 53113 Bonn, Germany & Bahu, Manado 95115, Indonesia
 - OwnerURL: <https://www.zfmk.de> & <https://www.unsrat.ac.id>
 - OwnerLogoURL:

Dataset Embargo

Archivierung

- Backups als .csv-Dateien im LIB Intranet Dateisystem und auf Bändern
- OAIS-konform (**O**pen **A**rchival **I**nformation **S**ystem)

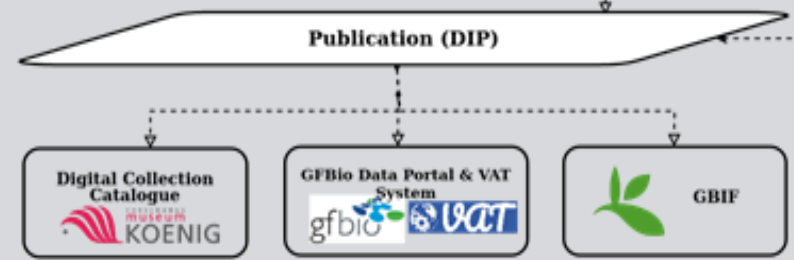
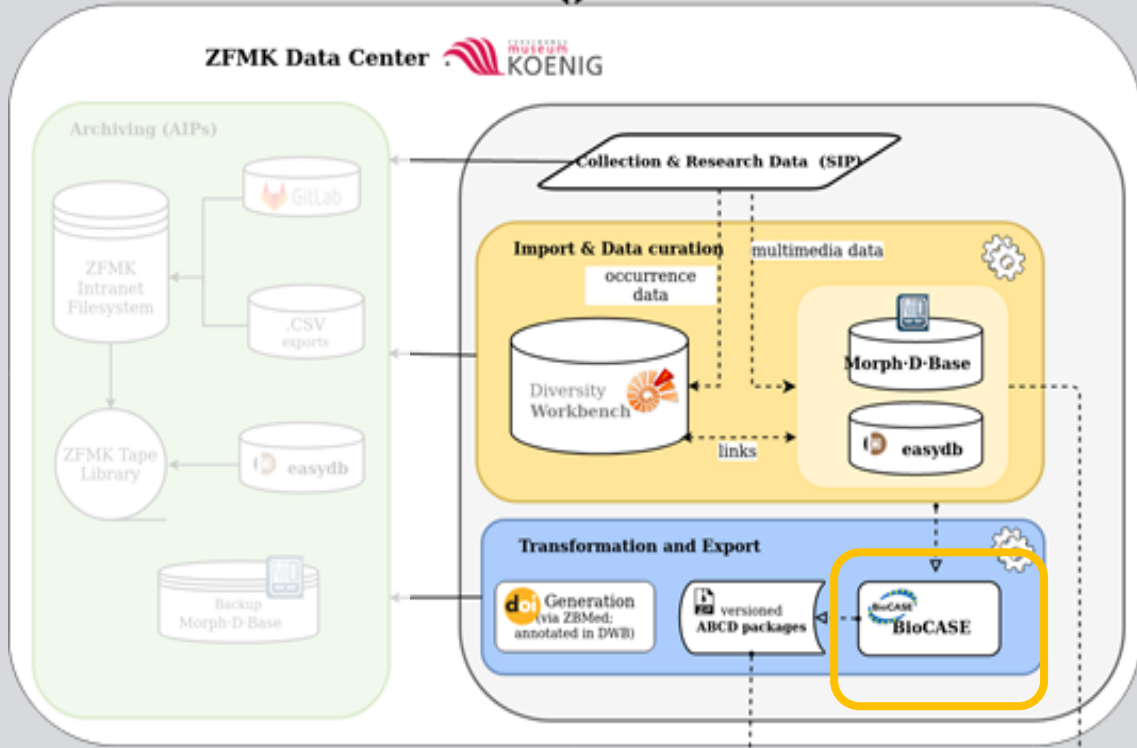
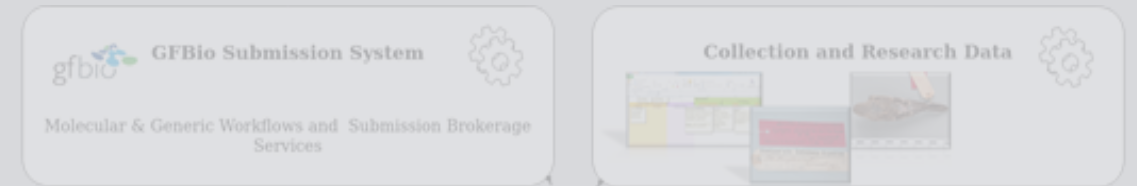


Publikation

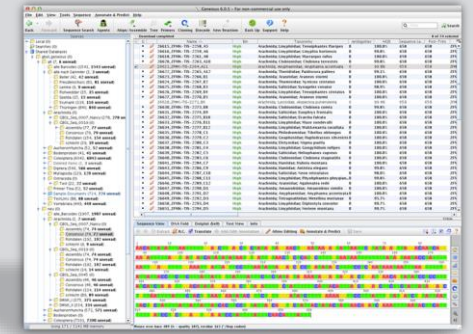
Mapping zu ABCD in BioCASE Provider Software



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<?xml version="1.0" encoding="UTF-8"?>
<abcd21:DataSets>
<abcd21:DataSet>
<abcd21:DataSetGUID>https://id.zfmk.de/dataset_ZFMK/26790/</abcd21:DataSetGUID>
<abcd21:Unit>
<abcd21:UnitGUID>https://id.zfmk.de/collection_ZFMK/10605/496819/67904/</abcd21:UnitGUID>
<abcd21:SourceInstitutionID>ZFMK</abcd21:SourceInstitutionID>
<abcd21:SourceID>TIS</abcd21:SourceID>
<abcd21:UnitID>ZFMK-TIS-10605/</abcd21:UnitID>
<abcd21:UnitIDNumeric>10605</abcd21:UnitIDNumeric>
<abcd21:RecordBasis>MaterialSample</abcd21:RecordBasis>
<abcd21:KindOfUnit>issue_sample</abcd21:KindOfUnit>
<abcd21:MultiMediaObject>
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<abcd21:UnitAssociation>
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<abcd21:DataSetAccessPoint>https://biocase.zfmk.de/biocase/pyrwrapper.cgi?dsa=ZFMK-Collections-v2/</abcd21:DataSetAccessPoint>
</abcd21:UnitAssociation>
</abcd21:Associations>
</abcd21:Unit>
</abcd21:Units>
</abcd21:DataSet>
</abcd21:DataSets>
```



„Eine versteckte Sammlung ist eine tote Sammlung“



Vielen Dank für Ihre Aufmerksamkeit.

Birgit Klasen
LIB Museum Koenig, Bonn

