Virtueller Workshop/ Roundtable vom 24. bis 26. März 2021 mit dem Titel "The Future of Managing Osteological Data in Biological Anthropology"

Abstracts

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DWB software solutions - open source and free for download

The Diversity Workbench (DWB; https://diversityworkbench.net) is a suite of relational SQL databases and tools to process bio- and geodiversity data. DWB tools address data generation, data management, quality assurance and basic data analysis issues in the following scientific domains: molecular and evolutionary biology including anthropology, systematics, biogeography, ecological and environmental sciences, geosciences. The desktop tools (client-server database applications, data processing and GIS tools) and the mobile app are independent of each other, but might be jointly used to build a linked data network. DWB offers central cloud services with terminologies, taxonomies, regional taxon checklists, gazetteers and GIS information. The software has been user-tested for more than 20 years, see http://www.snsb.info/Workshops.html and FAQs under https://www.gfbio.org/tools.

DWB use is free (GPL 2 license) and without costs (as far as MS SQL Server Express is used). The software is open source apart from the underlying MS operating system and MS SQL Server.

In 2021 the SNSB-SAPM anthropological collections started to develop a concept to manage osteological collection data (depot data) compliant to the data model of the DWB suite with DiversityCollection. The short talk will introduce the management system recommending the direct use of DWB rich clients with spreadsheet modus.

As an interim alternative the SAPM with SNSB IT Center are developing a DC compliant spreadsheet template (with DC import schema in the SNSB GIT Hub) appropriate for small biological anthropology collections. Such kind of templates are available via GFBio services under
https://gfbio.biowikifarm.net/wiki/Data_submission_templates_for_biodiversity,_ecological_and_collection_data).

The SNSB data pipelines for publishing occurrence data via GBIF are appropriate for human osteological collections

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SNSB IT Center

The SNSB IT Center (http://www.snsb.info/) is running a recognized data repository for collection and occurrence data of the SNSB, managed in DWB DiversityCollection instances and published via BioCASe provider software installations (see http://www.snsb.info/dwb_biocase.html). An id-service for stable identifiers as requested by CETAF, the European Consortium for Taxonomic Facilities, is implemented.

The (meta-) data are structured according domain-specific conceptual schemas certified by TDWG standardization committees and compliant to GBIF (www.gbif.org), GFBio (www.gfbio.org) and the upcoming NFDI4BioDiversity (https://www.nfdi4biodiversity.org/) networks. The data are available via regional, national and international scientific data portals.

A SNSB data pipeline for publishing anthropological collection data is ready to be used. It is nearly identical with that for publishing SNSB-SAPM palaeoanatomical collection data created more than 10 years ago.

The short talk will introduce the SNSB data pipelines for (semi-)automatically publishing collection data as FAIR data and describe the role of the SNSB IT Center as data publisher in GBIF (see https://www.gbif.org/publisher/0674aea0-a7e1-11d8-9534-b8a03c50a862).