ABCD consensus elements for data publication

ABCD 2.06 as standard for data publication with GFBio consensus elements and GFBio use case

The GFBio initiative agreed to have the following ABCD 2.06 core elements as mandatory or recommended for datasets with biodiversity occurrence data, see wiki representation of ABCD 2.06.

All biodiversity & collection datasets to be published via the GFBio portal have to deliver information which is transformed to Pansimple and processed for the GFBio harvesting tool. The table below lists the elements for dissemination of "datasets" with "data records (= units)" structured according to ABCD. The document will be extended within the next years and modified following new ratified versions of ABCD, e.g. ABCD 3.0.

The GFBio controlled vocabularies for Kingdom (=Regnum) and RecordBasis are provided by the API of the GFBio Terminology Service.

Elements in bold and red are mandatory within ABCD

ABCD elements in normal letters and red are agreed to be mandatory within GFBio

Elements in pale red are **highly** recommended and **are mapped** by the data centers (using the BioCASe provider software). They are normally included in quality datasets for GFBio dissemination. In some cases, however, the content might not exist or be irrelevant and can be omitted.

ABCD elements in italics are not mandatory but recommended.

Elements in yellow do not exist in ABCD 2.0; are recommended as new ABCD elements in ABCD 3 -

Elements with (*) are mandatory for a ABCD and EML compliant GFBio submission tool on dataset level;

ABCD Element Group	Comments	Example dataset 1, GFBio Data Portal: Search for "UJDIP.PHYLCOLL.ALL. V1"
Dataset GUID		id.zfmk.de/dataset_ZFMK/270001
Dataset ID	exists in the ABCD variants 2.06d, 2.06e or 2.06f	-
*Technical Contacts		Data Center LIB
Technical Contacts		datacenter at leibniz-lib.de
*Content Contacts		Prof. Dr. R. Beutel
*Description		Collection of specimens from descriptive data of head structures in Diptera
Description		Detailed description of the data set from the thesis of Dr. rer. nat. Katharina Schneeberg: The evolution of head structures in Diptera and the phylogeny of the order, Friedrich-Schiller-Universität Jena (2014) as part of the DFG project The Evolution of larval and adult features in Diptera (Insecta). DFG RB 1789/6
*Description	here URI of dataset homepage and description or - alternatively - the LandingpageURI on dataset level generated via BMS service	LandingpageURI on dataset level generated via BMS service (not available at the moment) or http://gepris.dfg.de/gepris/projekt/164998788
Related Dataset		
Related Dataset		
Related Dataset		-
Related Dataset		-
Revision		2016-05-10 09:27:07
IPRStatem ents		CC BY-SA 4.0

IPRStatem ents		
IPRStatem ents		https://creativecommons.org/licenses/by-sa/4.0/
IPRStatem ents		
IPRStatem ents		Schneeberg, K. (2014). The evolution of head structures in Diptera and the phylogeny of the order. PhD Thesis, Friedrich-Schiller-Universität Jena. [Dataset]. Version: 1.2. Data Publisher: Zoological Research Museum Koenig - Leibniz Institute for Animal Biodiversity. https://doi.org/10.20363//UJDIP.PHYLCOLL.ALL.V1.
IPRStatem ents		
IPRStatem ents		
Unit IDs		Uni Jena
Unit IDs		UJ-Diptera
Unit IDs		UJ-DIP-Phylcoll-10000000
Unit IDs		2016-05-09T11:33:45
Owner		Friedrich-Schiller-Universität Jena, Institut für Spezielle Zoologie und Evolutionsbiologie mit Phyletischem Museum
Owner		
Owner		principle investigator
Related Dataset GUID (to be mapped on unit level)		-
Related Dataset ID (to be mapped on unit level)		-
Identification	regnum, e. g., Animalia , see list of terms and definitions, based on GBIF and CoL; for taxon-based biological data units mandatory!	Animalia
Identification	based on GBIF and CoL; for taxon-based biol ogical data units mandatory!	regnum
	A controlled vocabulary (Terminology) for biological taxa "Higher Classification - Kingdom (=Regnum)". Based on GBIF and CoL]; for taxon-based biological data units mandatory!	
Identification		Axymyia furcata Mcatee, 1921
RecordBasis	See list of terms and definitions, based on GBIF/DwC and BiNHum/ABCD	PreservedSpecimen
MultiMedia		

Gathering	in palaeontological and geological units often not available	2008-09-04
Gathering		Schneeberg, K.
Gathering		Great Smoky Mountains National Park
Gathering	for marine areas see element "AreaName"	United States
Gathering		US
Gathering	alternative to country; applicable in marine areas	
Gathering		
Gathering		
Gathering	only applicable if coordinates are present, then mandatory	
Gathering	for palaeontological and geological units	
Gathering	for palaeontological and geological units	
RecordURI	here landingpageURI on data unit level; in the case that this element is not filled, the BMS Service will generate the content (=BioCASe unit landingpage)	landingpage on UnitLevel generated via BMS Service (not available at the moment) or http://id.zfmk.de/collection_ZFMK/10000000/998152/200892
Other notable Elements		
Scope		
Unit GUID s	e.g. for collection object stable identifiers and stable URIs of existing landingpages on UnitLevel	http://id.zfmk.de/collection_ZFMK/10000000/998152/200892
TitleCitation (Unit)		
CollectorsFi eldNumber (Unit)		
Measureme ntsAndFacts		
Association , Associate dUnitID		
Associated UnitSourcel nstitutionCo de	recommended if AssociatedUnitID exists	
Associated UnitSource Name	recommended if AssociatedUnitID exists	
Association Type	recommended if AssociatedUnitID exists	