EBV Metadata EML Profile

Name	EBV Metadata EML Profile	
DOI	https://doi.org/10.5281/zenodo.3362351	
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Github	https://github.com/ChristianLanger/eml-profile	
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Description	Version v0.5 of the EBV Metadata EML Profile Version v0.5 is focused on species-level EBVs, especially on the species populations EBV class, and maybe equally applicable to the species traits EBV class. However, this version doesn't cover other EBV classes related to ecosystem function/structure or community composition and genetic composition. These classes will need some additional terms as well as have no need for some current terms (e.g. taxonomic coverage). For instance, ecosystem function and ecosystem structure EBVs will need some other dimension than taxonomy, e.g. fields related to what type of ecosystems and habitats are captured. This PDF file was automatically generated from the XSD file. For a detailed description of the individual classes and properties, please refer to the source code of the XSD profile schema (eml-ebv-profile.xsd).	

dataset

The dataset element is a wrapper for all other elements relating to a single

d	at	as	se	t

alternateIdentifier

This is the only identifier issued by the EBV resource for the metadata document; it is a UUID + alternateIdentifier title The 'title' field provides a description of the resource that is being documented that is long enough to differentiate it from other similar resources. Multiple titles may be provided, particularly when trying to express the title in more than one language. + title ebv The detailed information about the EBV candidate in the domain of the GEO BON List of Essential Biodiversity Variables. **ebvClass** Genetic composition A class name in the domain of the GEO BON List of Essential Biodiversity Variables. ebvName Co-ancestry A name of the Essential Biodiversity Variable, preferably in the

domain of the GEO BON List of Essential Biodiversity Variables.

creator

The creator is the person who created the resource (not necessarily the author of this metadata about the resource).

This is the person or institution to contact with questions about the use, interpretation of a dataset.

organizationName

The full name of the organization that is associated with the resource.

This field is intended to describe which institution or overall organization is associated with the resource being described.

individualName

The individualName field contains subfields so that a person's name can be broken down into parts.

givenName

The given name field can be used for first name of the individual associated with the resource, or for any other names that are not intended to be alphabetized, (as appropriate).

+ givenName

surName

The surname field is used for the last name of the individual associated with the resource.

This is typically the family name of an individual, for example, the name by which s/he is referred to in citations.

positionName

This field is intended to be used instead of a particular person or full organization name. If the associated person who holds the role changes frequently, then Position Name would be used for consistency. E.g., Data Manager. address The address field is a container for multiple subfields that describe the physical or electronic address of the responsible party for a resource. deliveryPoint The delivery point field is used for the physical address for postal communication, e.g., GEO BON Secretariat, Deutscher Platz 5e + deliveryPoint city The city field is used for the city name of the contact associated with a particular resource. + city administrativeArea The administrative area field is the equivalent of a 'state' in the U.S., or Province in Canada. This field is intended to accommodate the many types of international administrative areas. + administrativeArea

postalCode

	The postal code is equivalent to a U.S. zip code, or the number used for routing to an international address. - + postalCode
	country
	The country field is used for the name of the contact's country + country
	+ address
	phone
	priorie
	telephone, be it a voice phone, fax + phone email
It is	he electronic mail address is the email address for the party. intended to be an Internet SMTP email address, which should asist of a username followed by the @ symbol, followed by the email server domain name address. + email
	homepage

other related online information about the party.

+ homepage + creator metadataProvider The party responsible for the creation of the metadata document organizationName The full name of the organization that is associated with the resource. This field is intended to describe which institution or overall organization is associated with the resource being described. individualName The individualName field contains subfields so that a person's name can be broken down into parts. givenName The given name field can be used for first name of the individual associated with the resource, or for any other names that are not intended to be alphabetized, (as appropriate). + givenName surName The surname field is used for the last name of the individual associated with the resource. This is typically the family name of an individual, for example, the name by which s/he is referred to in citations.

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This field is intended to be used instead of a particular person or full organization name.

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address The address field is a container for multiple subfields that describe the physical or electronic address of the responsible party for a resource. deliveryPoint The delivery point field is used for the physical address for postal communication, e.g., GEO BON Secretariat, Deutscher Platz 5e + deliveryPoint city The city field is used for the city name of the contact associated with a particular resource. + city administrativeArea The administrative area field is the equivalent of a 'state' in the U.S., or Province in Canada. This field is intended to accommodate the many types of international administrative areas.

postalCode

+ administrativeArea

	number used for routing to an international address.
	-
	+ postalCode
	country
	The country field is used for the name of the contact's country.
	+ country
	+ address
	phone
The p	hone field describes information about the responsible party's telephone, be it a voice phone, fax. + phone
	email
	email
It is i	e electronic mail address is the email address for the party. Intended to be an Internet SMTP email address, which should sist of a username followed by the @ symbol, followed by the email server domain name address. + email
It is i	e electronic mail address is the email address for the party. Intended to be an Internet SMTP email address, which should sist of a username followed by the @ symbol, followed by the email server domain name address.
It is i	e electronic mail address is the email address for the party. Intended to be an Internet SMTP email address, which should sist of a username followed by the @ symbol, followed by the email server domain name address. - + email

. . _

	+ homepage
	+ metadataProvider
	associatedParty -
A party	associated with the resource. Parties have particular roles.
0	organizationName
resourc	e full name of the organization that is associated with the e. This field is intended to describe which institution or overall anization is associated with the resource being described.
	individualName
The inc	dividualName field contains subfields so that a person's name can be broken down into parts.
	givenName
assoc	given name field can be used for first name of the individual ciated with the resource, or for any other names that are not intended to be alphabetized, (as appropriate).
	+ givenName
	surName
Th	e surname field is used for the last name of the individual associated with the resource.
This i	s typically the family name of an individual, for example, the name by which s/he is referred to in citations.
	positionName

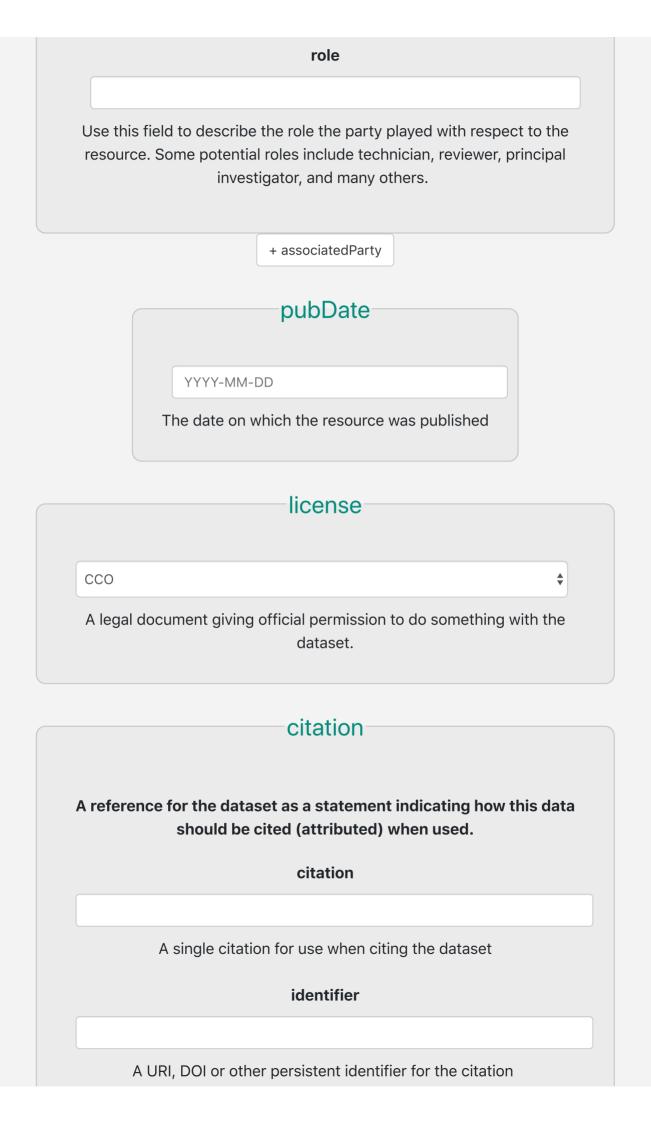
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If the associated person who holds the role changes frequently, then Position Name would be used for consistency. E.g., Data Manager.

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The postal code is equivalent to a U.S. zip code, or the

	_
	+ postalCode
	country
	The country field is used for the name of the contact's
	country
	+ country
	+ address
	phone
	prioric
The p	phone field describes information about the responsible party's
	telephone, be it a voice phone, fax.
	+ phone
	email
	ne electronic mail address is the email address for the party. intended to be an Internet SMTP email address, which should
It is	
	sist of a username followed by the @ symbol, followed by the
	sist of a username followed by the @ symbol, followed by the email server domain name address.
	email server domain name address.
	email server domain name address.
	email server domain name address + email
A link	email server domain name address + email homepage to associated online information, usually a web site. When the represents an organization, this is the URL to a website or other
A link party i	email server domain name address + email homepage to associated online information, usually a web site. When the represents an organization, this is the URL to a website or other information about the organization. If the party is an individual,
A link party i	email server domain name address + email homepage to associated online information, usually a web site. When the represents an organization, this is the URL to a website or other
A link	homepage to associated online information, usually a web site. When the represents an organization, this is the URL to a website or other information about the organization. If the party is an individual, ht be their personal web site or other related online information



	language
The	language in which the resource (not the metadata document) is writter - + language
	abstract -
	A brief overview describing the dataset
	, abotroot
	+ abstract
	keywordSet -
Α	women alone and for the leaves and and leaves all the second and t
AW	rapper element for the keyword and keywordThesaurus elements
	keyword
	This field names a keyword or key phrase that consisely describes
	This field names a keyword or key phrase that concisely describes the resource or is related to the resource.
Е	Each keyword field should contain one and only one keyword
	+ keyword

	keywordThesaurus
-	The name of the official keyword thesaurus from which keyword was derived
	derived
	+ keywordSet
	additionalInfo -
	Any information that is not characterized by the other resource metadata fields
	+ additionalInfo
	intellectualRights -
	Contain a rights management statement for the resource, or reference a service providing such information.

	+ intellectualRights
	distribution -
When used	ment provides information on how the resource is distributed. I at the resource level, this element can provide only ormation, but elements for describing connections to online systems are provided.
	url
Th	e URL of the resource that is available online.
	protocol
OGC:WFS	protocol
OGC:WFS	
OGC:WFS	•
OGC:WFS	The connection protocol to be used

A datailed text description of what the online resource is/does

+ distribution

coverage

Describes the extent of the coverage of the resource in terms of its spatial extent, temporal extent, and taxonomic extent

geographicCoverage

A container for spatial information about a resource (e.g. of grid cells, sampling locations, satellites, etc.) allows a bounding box for the overall coverage (in lat long), and also allows description of arbitrary polygons with exclusions.

geographicDescription

A short text description of a dataset's geographic areal domain.

A text description is especially important to provide a geographic setting when the extent of the dataset cannot be well described by the "boundingCoordinates".

+ geographicDescription

boundingCoordinates

Bounding Coordinates are the four margins (N, S, E, W) of a bounding box, or when considered in lat-lon pairs, the corners of the box.

westBoundingCoordinate

The westBoundingCoordinate field defines the longitude of the western-most point of the bounding box that is being described.

eastBoundingCoordinate

The eastBoundingCoordinate field defines the longitude of the eastern-most point of the bounding box that is being described.

northBoundingCoordinate

The northBoundingCoordinate field defines the latitude of the northern-most point of the bounding box that is being described.

southBoundingCoordinate

The southBoundingCoordinate field defines the latitude of the southern-most point of the bounding box that is being described.

+ geographicCoverage

temporalCoverage

This field specifies temporal coverage (e.g. length of time series, continuos recording, time period of collection of records, etc.), and allows coverages to be a single point in time or a range of dates.

rangeOfDates

The 'RangeOfDates' field is intended to be used for describing a range of dates and/or times. It may be used multiple times to document multiple date ranges. It allows for two 'singleDateTime' fields, the first to be used as the beginning dateTime, and the second to be used as the ending dateTime of the range.

beginDate

A single time stamp signifying the beginning of some time period.

endDate

A single time stamp signifying the end of some time period.

The SingleDateTime field is intended to describe a single date and time for an event.

+ temporalCoverage

taxonomicCoverage

Taxonomic Coverage (e.g. how many and which species are documented) is a container for taxonomic information about a resource. It includes a list of species names (or higher level ranks) from one or more classification systems.

generalTaxonomicCoverage

A general description of the range of taxa addressed in the data set or collection

+ generalTaxonomicCoverage

taxonomicClassification

Information about the range of taxa addressed in the dataset or collection

taxonRankName The name of the taxonomic rank for which the Taxon rank value is provided, e.g., Phylum, Class, Genus, Species + taxonRankName taxonRankValue The name representing the taxonomic rank of the taxon being described commonName Applicable common names; these common names may be general descriptions of a group of organisms if appropriate, e.g., invertebrates, waterfowl + commonName + taxonomicClassification + taxonomicCoverage + coverage layers Describes the layers of the resource in terms of the spatial, temporal and taxonomic extent of each layer incl. the measurement type of the layer.

layer

The layer field is a container that describe the layer for a resource.

measurementType

State

State: an absolute measurement on the condition and status of aspects of biodiversity;

RelativeState: a measurement of aspects of biodiversity relative to a spatial (??) or temporal reference, such as a arbitrary area or baseline;

Pressure: A measurement of a proximate cause of biodiversity change, such as fire, flood, etc;

Benefit: Ecosystem service variables

geographic

A container for spatial information about a layer (e.g. of grid cells, sampling locations, satellites, etc.).

resolution

Spatial resolution (e.g. grid cell size, polygons, resolution of satellite sensors, volume, etc.)

measurementUnit

Meters, cubic meters, kilometers, degrees, etc.

uncertainty

Precision and accuracy of coordinates and volumes, wrongly recorded coordinates, imprecise sampling locations

temporal

A container for temporal information about a layer (e.g. length of time series, continuos recording, time period of collection of records, etc.)

resolution

Temporal grain (e.g. date or time window of sampling, sampling frequency)

measurementUnit

e.g. Hours, days, weeks, months, years, decades, etc.

measurementBaseline

The baseline year on which the measurement was made (Recommended best practice is to use a date that conforms to ISO 8601:2004(E), e.g. 1900)

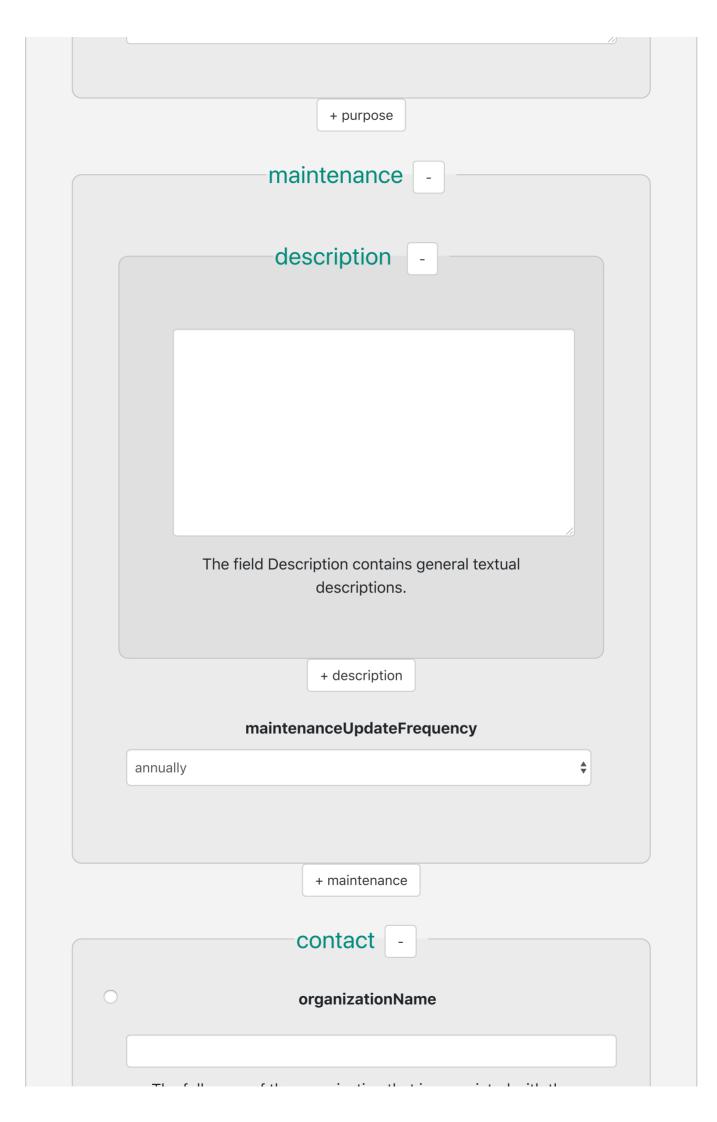
uncertainty

Variation in length of time series, precision of time of collection, etc.

taxonomic

A container for temporal information about a layer (e.g. how many and which species are

documented).
resolution
e.g. Species, genus, higher taxonomic level, etc.
measurementUnit
Taxonomic entity for which species distribution and abundance data are sampled (e.g. Areca).
uncertainty
Identification and observation uncertainty, ambiguous scientific names, synonyms, differences in taxon concepts, etc.
+ layer
+ layers
purpose -
A description of the purpose of the resource/dataset



I he full name of the organization that is associated with the resource. This field is intended to describe which institution or overall organization is associated with the resource being described.

individualName

The individualName field contains subfields so that a person's name can be broken down into parts.

The given name field can be used for first name of the individual associated with the resource, or for any other names that are not intended to be alphabetized, (as appropriate). + givenName surName

The surname field is used for the last name of the individual associated with the resource.

This is typically the family name of an individual, for example, the name by which s/he is referred to in citations.

positionName

This field is intended to be used instead of a particular person or full organization name.

If the associated person who holds the role changes frequently, then Position Name would be used for consistency. E.g., Data Manager.

address

The address field is a container for multiple subfields that describe the physical or electronic address of the responsible party for a resource.

deliveryPoint

The delivery point field is used for the physical address for postal communication, e.g., GEO BON Secretariat,
Deutscher Platz 5e
+ deliveryPoint
city
The city field is used for the city name of the contact
associated with a particular resource.
+ city
administrativeArea
in the U.S., or Province in Canada. This field is intended to accommodate the many types of international administrative areas. + administrativeArea
postalCode
The postal code is equivalent to a U.S. zip code, or the number used for routing to an international address. - + postalCode
country
The country field is used for the name of the contact's country + country

+ address

phone
The phone field describes information about the responsible party's telephone, be it a voice phone, fax + phone
email
The electronic mail address is the email address for the party. It is intended to be an Internet SMTP email address, which should consist of a username followed by the @ symbol, followed by the email server domain name address. + email
homepage
A link to associated online information, usually a web site. When the party represents an organization, this is the URL to a website or other online information about the organization. If the party is an individual, it might be their personal web site or other related online information about the party. - + homepage
contact -
organizationName
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+ deliveryPoint			

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administrativeArea
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postalCode
number used for routing to an international address. - + postalCode country
The country field is used for the name of the contact's country + country
+ address
phone

	+ phone
	email
	The electronic mail address is the email address for the party. It is intended to be an Internet SMTP email address, which should consist of a username followed by the @ symbol, followed by the email server domain name address. + email
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pa oı	A link to associated online information, usually a web site. When the arty represents an organization, this is the URL to a website or other nline information about the organization. If the party is an individual, might be their personal web site or other related online information about the party. + homepage
	+ contact
	methods -
cc	The methods field documents scientific methods used in the ollection of this dataset. It includes information on items such as tools, instrument calibration and software.
	methodDescription -

A broader description of how the method is produced. + methodDescription datasetDependencies A detailed listing of the input datasets needed to produce the dataset. The list (concatenated and separated) should contain names of people, groups, or organizations responsible for the original input. The primary creator should be listed first. + datasetDependencies models dataset models... + models qualityControl -The qualityControl field provides a location for the description of actions taken to either control or assess the quality of data resulting from the associated method step. + qualityControl + methods

project

The project field contains information on the project in which this dataset was collected. It includes information such as project personnel, funding, study area, project design and related projects.

title

The 'title' field provides a description of the resource that is being documented that is long enough to differentiate it from other similar resources.

Multiple titles may be provided, particularly when trying to express the title in more than one language.

personnel

The Personnel field extends ResponsibleParty with role information and is used to document people involved in a research project by providing contact information and their role in the project.

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responsible party's telephone, be it a voice phone, fax. + phone email The electronic mail address is the email address for the party. It is intended to be an Internet SMTP email address, which should consist of a username followed by the @ symbol, followed by the email server domain name address. + email homepage A link to associated online information, usually a web site. When the party represents an organization, this is the URL to a website or other online information about the organization. If the party is an individual, it might be their personal web site or other related online information about the party. + homepage role Use this field to describe the role the party played with respect to the resource. Some potential roles include technician, reviewer, principal investigator, and many others. + personnel abstract A brief overview describing the dataset

	· ·
	+ abstract
	formation or
	funding -
	The funding field is used to provide information about
fu	nding sources for the project such as: grant and contract
	numbers; names and addresses of funding sources.
	+ funding
	studyAreaDescription -
	ne studyAreaDescription field documents the physical ea associated with the research project. It can include
	descriptions of the geographic, temporal, and
	taxonomic coverage of the research location and

