



# Estándares de datos de biodiversidad

# Contenido

- Datos de biodiversidad
- Tipos de estándares
- El estándar Darwin Core
- Publicación de datos con el IPT

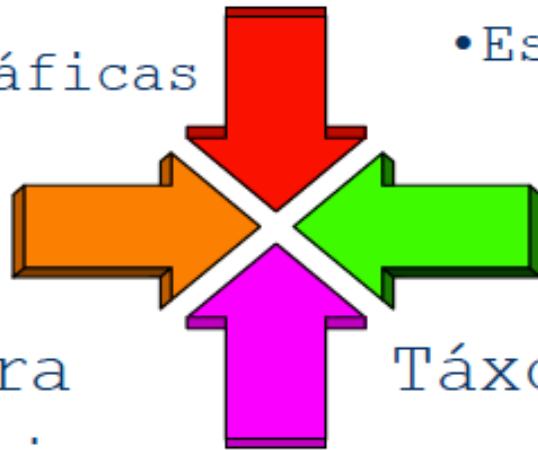
# Naturaleza de la información sobre biodiversidad

## Datos primarios

- Especímenes
- Observaciones
- Citas bibliográficas

## Nombres

- válidos & sinónimos
- Información de tipos
- Esquemas taxonómicos



## Literatura

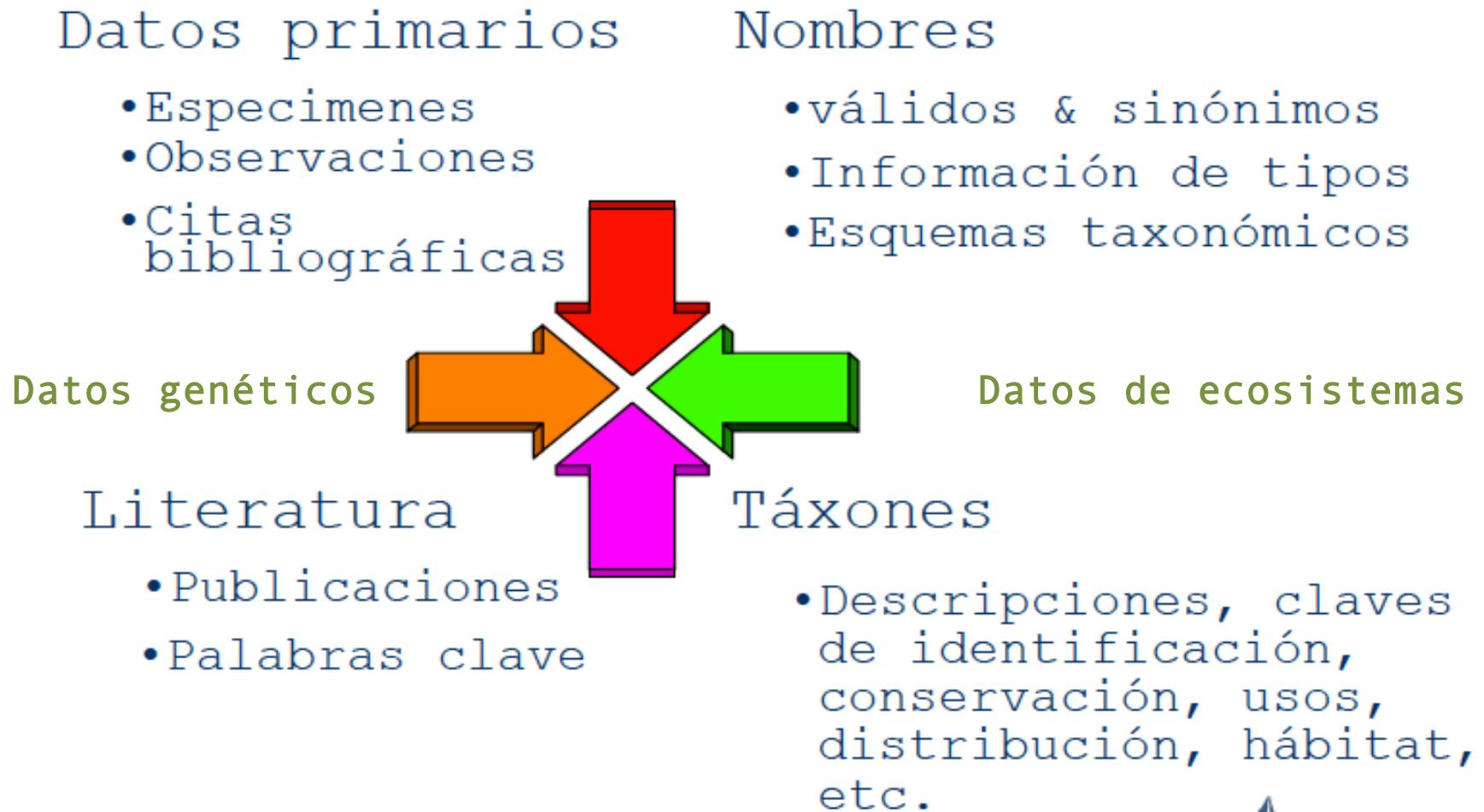
- Publicaciones
- Palabras clave

## Táxones

- Descripciones, claves de identificación, conservación, usos, distribución, hábitat, etc.

Adaptado por Pando, F. de:  
Leenhouts, Regnum Veg. 58. 1968.

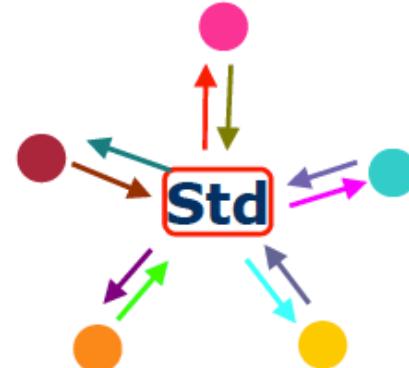
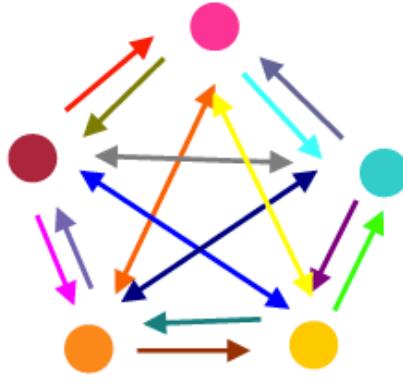
# Naturaleza de la información sobre biodiversidad



Adaptado por Pando, F. de:  
Leenhouts, Regnum Veg. 58. 1968.

# Estandarizar ¿para qué?

- Estandarizar para organizar e integrar.
- Estandarizar para utilizar y reutilizar en comunidad.
- Estandarizar no para capturar datos a nivel institucional.



# Tipos de estándares

- Estructurales (sintácticos)  
Cómo se codifica la información  
(ej. DwC , PLIC, ABCD)
- Vocabularios controlados (léxicos)  
Qué valores son válidos  
(ej. listas de géneros, especies)
- Definiciones (semánticos)  
para humanos, para máquinas  
(ej. HISPID)

# Biodiversity Information Standards (TDWG)

We are a non-profit organization and community dedicated to developing biodiversity information standards

Standards - TDWG

tdwg.org/standards/

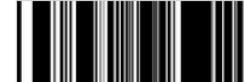
## Current standards



Audubon Core  
Multimedia  
Resources  
Metadata Schema



Darwin Core



GUID and Life  
Sciences  
Identifiers  
Applicability  
Statements

---



TDWG Access  
Protocol for  
Information  
Retrieval (TAPIR)



TDWG Standards  
Documentation  
Standard (SDS)



Vocabulary  
Maintenance  
Standard (VMS)

Current standards

Draft standards

2005 standards

Prior standards

# Estructurales (sintácticos)

## Darwin Core

# Darwin Core, Simple Darwin Core y Darwin Core Archive

## Darwin Core: una lista de términos

```
continent
taxonRank basisOfRecord kingdom
institutionCode scientificNameID family institutionID
vernacularName coordinatePrecision recordedBy taxonID
verbatimTaxonRank originalNameUsage nomenclaturalCode
nameAccordingTo higherClassification namePublishedInID
class parentNameUsage occurrenceID originalNameUsageID nameAccordingToID
order higherGeographyID associatedTaxa verbatimCoordinateSystem datasetID
minimumElevationInMeters coordinateUncertaintyInMeters parentNameUsageID
infraspecificEpithet acceptedNameUsageID genus scientificNameAuthorship behavior
collectionCode previousIdentifications maximumDepthInMeters taxonConceptID
geodeticDatum reproductiveCondition decimalLongitude namePublishedIn phylum
catalogNumber acceptedNameUsage nomenclaturalStatus taxonRemarks
specificEpithet higherGeography decimalLatitude subgenus
taxonomicStatus scientificName islandGroup
lifeStage locationID collectionID waterBody
```

# Darwin Core quick reference guide

This document is intended to be an easy-to-read reference of the currently recommended terms maintained as part of the [Darwin Core standard](#). This page itself is not part of the standard. It draws on the term names and definitions from the normative part of the standard and combines them with comments and examples that are not normative, but that are meant to help people to use the terms consistently. Categories such as `Occurrence` and `Event` correspond to Darwin Core classes, which are special category terms used to group sets of terms for convenience. Comprehensive metadata for current and obsolete terms in human readable form are found in a [list of terms document](#). [Files with lists of these terms and their full history](#) can be found in the [Darwin Core repository](#).

To cite the standard upon which this page is built, use the following:

Darwin Core Maintenance Group. 2020. List of Darwin Core terms. Biodiversity Information Standards (TDWG).  
<http://rs.tdwg.org/dwc/doc/list/>

To cite Darwin Core in general, use the peer-reviewed article on Darwin Core:

Wieczorek J, Bloom D, Guralnick R, Blum S, Döring M, et al. (2012) Darwin Core: An Evolving Community-Developed Biodiversity Data Standard. PLoS ONE 7(1): e29715. <https://doi.org/10.1371/journal.pone.0029715>

## Record-level

type	modified	language	license	rightsHolder	accessRights	bibliographicCitation	references	institutionID
collectionID	datasetID	institutionCode	collectionCode	datasetName	ownerInstitutionCode	basisOfRecord		
informationWithheld	dataGeneralizations	dynamicProperties						

Record-level

Occurrence

Organism

MaterialSample

Event

Location

GeologicalContext

Identification

Taxon

MeasurementOrFact

ResourceRelationship

UseWithIRI

LivingSpecimen

PreservedSpecimen

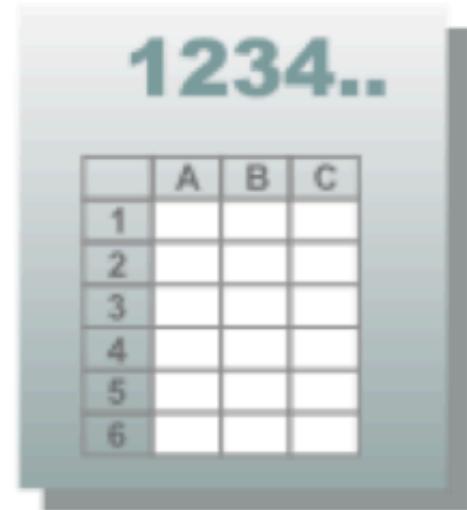
FossilSpecimen

HumanObservation

MachineObservation

## Darwin Core, Simple Darwin Core y Darwin Core Archive

**Simple Darwin Core:** Darwin Core expresado en una estructura de tabla simple.



The diagram shows a table with 6 rows and 3 columns, labeled A, B, and C. Above the table, the numbers 1234... are displayed, indicating that the table represents a series of records. The first column contains row numbers 1 through 6. The second and third columns are empty, representing missing data or secondary pieces of information.

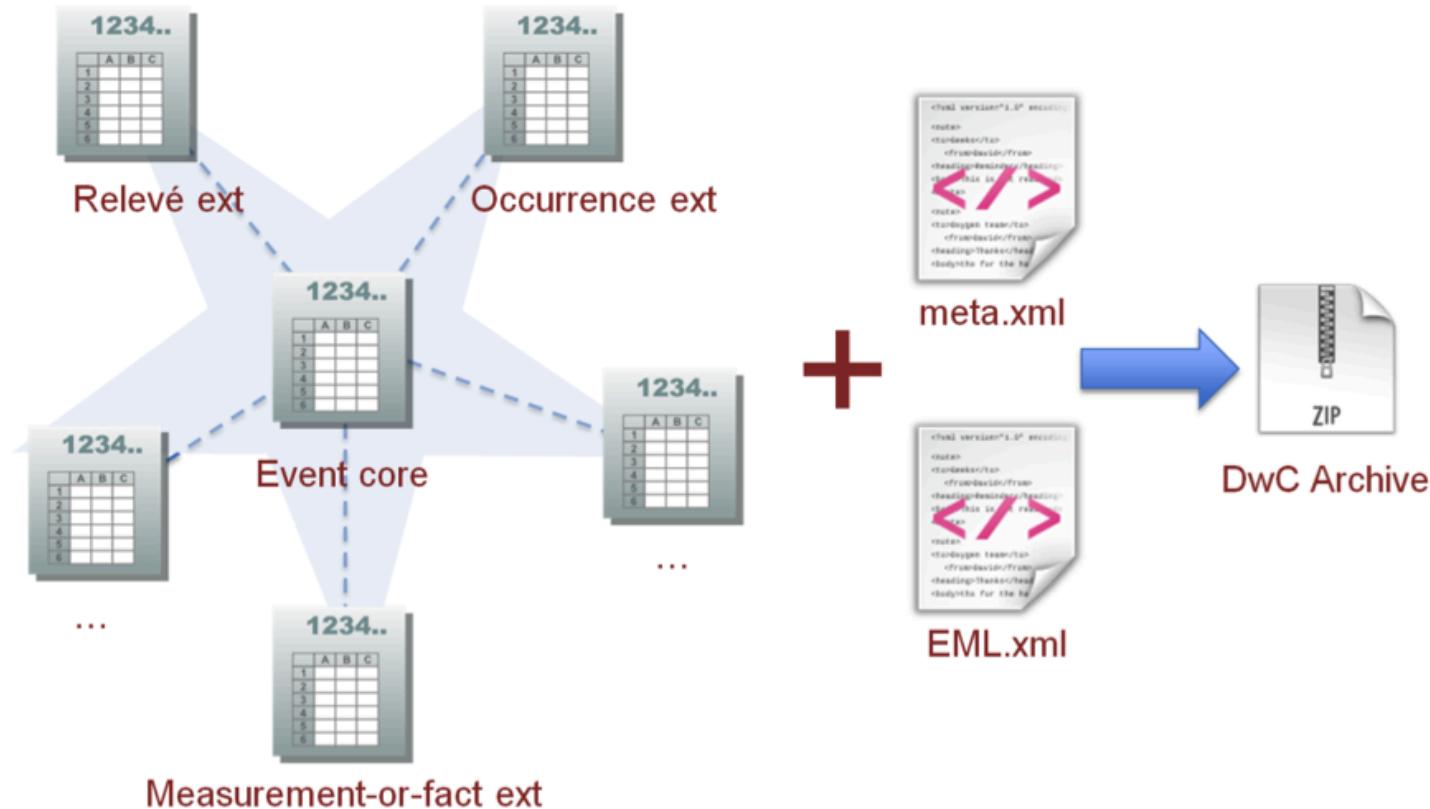
	A	B	C
1			
2			
3			
4			
5			
6			

# Plantilla de GBIF para datos de Ocurrencia

	A	B	C	D	E	F	G	H	I	J	K
1	occurrenceID	basisOfRecord	eventDate	endDayOfYear	year	month	day	verbatimEventDate	eventRemarks	scientificName	higherClassification
2	http://arctos.database.m	PreservedSpecimen	1926-04		1926	4		0/4/1926	day of month unknown	Ambystoma maculatum	Animalia; Chordata
3	http://arctos.database.m	PreservedSpecimen	1942-04-17		107	1942	4	17	17/04/1942	Desmognathus fuscus	Animalia; Chordata
4	http://arctos.database.m	PreservedSpecimen	1942-04-17		107	1942	4	17	17/04/1942	Gyrinophilus porphyriticus	Animalia; Chordata
5	http://arctos.database.m	PreservedSpecimen	1942-04-17		107	1942	4	17	17/04/1942	Eurycea bislineata bislineata	Animalia; Chordata
6	http://arctos.database.m	PreservedSpecimen	1942-04-17		107	1942	4	17	17/04/1942	Plethodon cinereus	Animalia; Chordata
7	http://arctos.database.m	PreservedSpecimen	1953-09-27		270	1953	9	27	27-sept-53	Rana sylvatica	Animalia; Chordata
8	http://arctos.database.m	PreservedSpecimen	1979-06-02/1979-06-07						02/06/1979	Eleutherodactylus eneidae	Animalia; Chordata
9	http://arctos.database.m	PreservedSpecimen	1981-06-01		152	1981	6	1	01-juin-81	Masticophis flagellum piceus	Animalia; Chordata
10	http://arctos.database.m	PreservedSpecimen	2011-06-23		174	2011	6	23	23-juin-11	Rana (Lithobates) clamitans	Animalia; Chordata

# Estándar Darwin Core: Núcleo y Extensiones

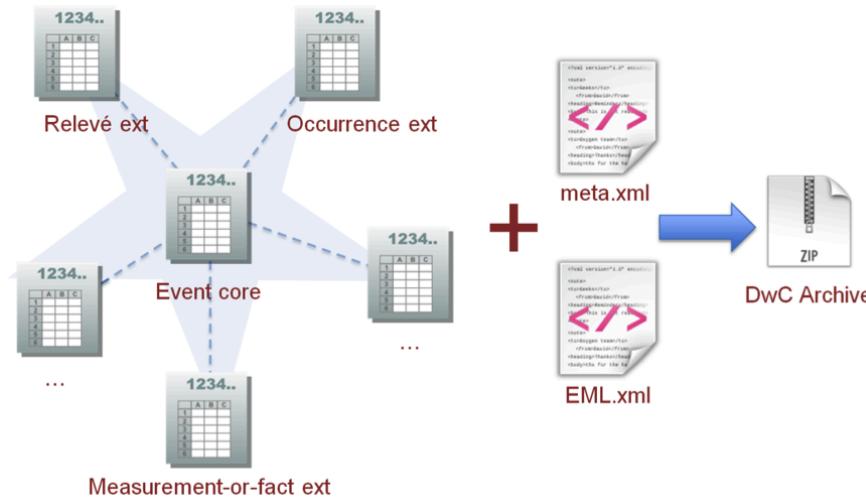
Estándar Darwin Core = Núcleo del estándar + posibles Extensiones (esquema en estrella)



# Estándar Darwin Core: Núcleo y Extensiones

Diferentes Núcleos pueden ser utilizados dependiendo del origen de los datos:

- **Núcleo Presencia (Occurrence Core)** para especímenes de colecciones de historia natural y observaciones simples de campo
- **Núcleo Taxón (Taxon Core)** para listas taxonómicas (checklists, listas rojas)
- **Núcleo Evento (Event Core)** para eventos de muestreo (transectos, cuadrantes, trampas...)



# Estándar Darwin Core: Núcleo y Extensiones

Las Extensiones son usualmente utilizadas para proveer más detalles acerca de los datos:

Ejemplos:

- “**Simple Multimedia Extension**” para intercambiar metadatos acerca de recursos multimedia, en particular enlaces a archivos de imágenes, de audio o de vídeo.
- “**Taxon Description**” para intercambiar descripciones taxonómicas basadas en texto/párrafos simples.
- “**Measurement or Facts**” para agregar información acerca de variables bióticas o abióticas
- “**Trait descriptor**” para agregar datos de atributos de los registros de presencia por ejemplo, forma de las hojas, diámetro a la altura del pecho, color de las flores.
- Y muchas más!

**NOTA:** Algunos núcleos pueden ser usados también como extensiones, tal es el caso del núcleo Ocurrencia, que puede ser usado con el núcleo Evento.

# Vocabularios controlados

## Darwin Core

# Vocabularios controlados (léxicos)

El DwC recomienda el uso de vocabularios controlados en 23 campos y otras restricciones.

## Ejemplos de vocabulario controlado

Event	sampleSizeUnit	Ontology of Units of Measure
Location	higherGeographyID	Getty Thesaurus of Geographic Names
	continent	Getty Thesaurus of Geographic Names
	waterbody	Getty Thesaurus of Geographic Names
	islandGroup	Getty Thesaurus of Geographic Names
	island	Getty Thesaurus of Geographic Names
	country	Getty Thesaurus of Geographic Names
	countryCode	ISO 3166-1-alpha-2
	geodeticDatum	EPSG
	verbatimCoordinateSystem	
	verbatimSRS	EPSG
	georeferenceVerificationStatus	{'requires verification', 'verified by collector', or 'verified by curator' }

## Ejemplos de otras restricciones

Occurrence	individualCount	positive integer or 0
Event	eventDate	ISO 8601:2004(E) <= now
	eventTime	ISO 8601:2004(E) <= now
	startDayOfYear	positive integer <= 366 (or 365)
	endDayOfYear	positive integer <= 366 (or 365)
	year	integer <= current year
	month	positive integer <= 12
	day	positive integer <= 31 (or 30, or 28)
Location	decimalLatitude	real number between -90 and 90 inclusive
	decimalLongitude	real number between -180 and 180 inclusive
	coordinateUncertaintyInMeters	real number > 0
	coordinatePrecision	subset of positive real numbers> 0
	pointRadiusSpatialFit	0 or positive real number >= 1
	footprintWKT	valid geometry in Well-known Text

# Vocabularios controlados (léxicos)

- La falta de vocabularios controlados hace que los datos sean muy heterogéneos, muy difíciles de encontrar y utilizar.
- Ejemplo: Se invitó a agregadores de datos de presencia de especies a que compartieran los distintos valores presentes en cada uno de los 23 campos para los que el estándar DwC recomienda utilizar un vocabulario controlado.
- Contenido del campo basisofrecord en GBIF, VertNet y ALA

ALA – 11 líneas , Jul/2018

1	Fossil specimen	29175
2	GenomicDNA	155315
3	Human observation	58855202
4	Image	136613
5	Literature	575
6	Living specimen	158146
7	Machine observation	665339
8	MaterialSample	51969
9	NomenclaturalChecklist	6486
0	Preserved specimen	12431632
.1	Sound	4564

GBIF - 633 líneas, Abr/2020

335	Herbarium sheet
336	Herbarium specimen
337	HerbariumRecord
338	HerbariumSpecimen
339	Heteromeyenia stepanowii
340	Human Observation
341	Human observation
342	HumanObservation
343	HumanObservation, PreservedSpecimen
344	Humanobservation

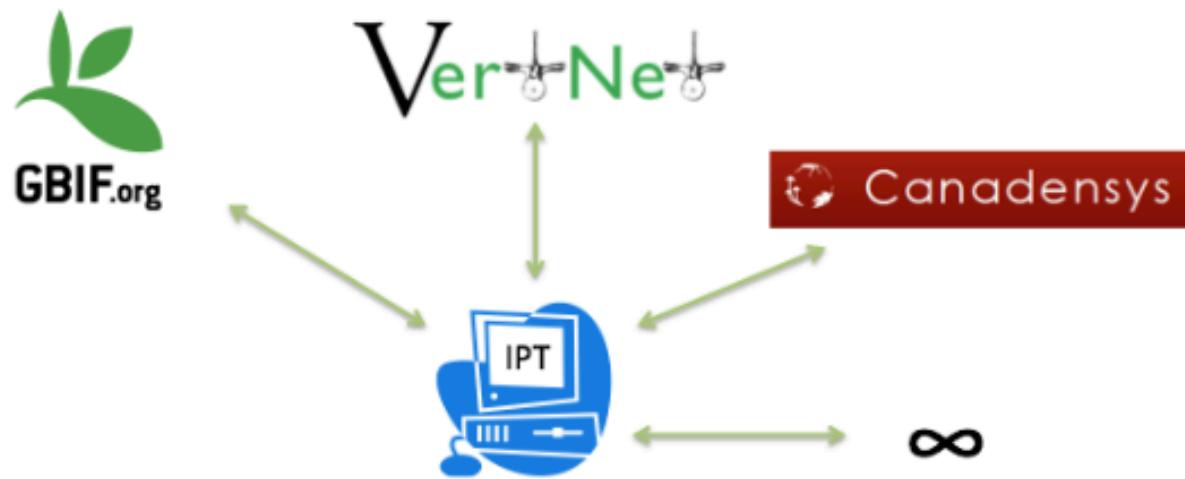
VertNet - 7 líneas, Jun/2018

1	basisofrecord	reps
2	PreservedSpecimen	16082995
3	FossilSpecimen	3523168
4	Occurrence	426253
5	MachineObservation	270149
6	HumanObservation	125689
7	MaterialSample	121522

# Publicación de datos con IPT

## Publicación

“Publicación” se refiere a hacer a los conjuntos de datos de biodiversidad públicamente accesibles y posibles de descubrimiento, de un modo estandarizado, a través de un punto de acceso, típicamente una dirección web (una URL).



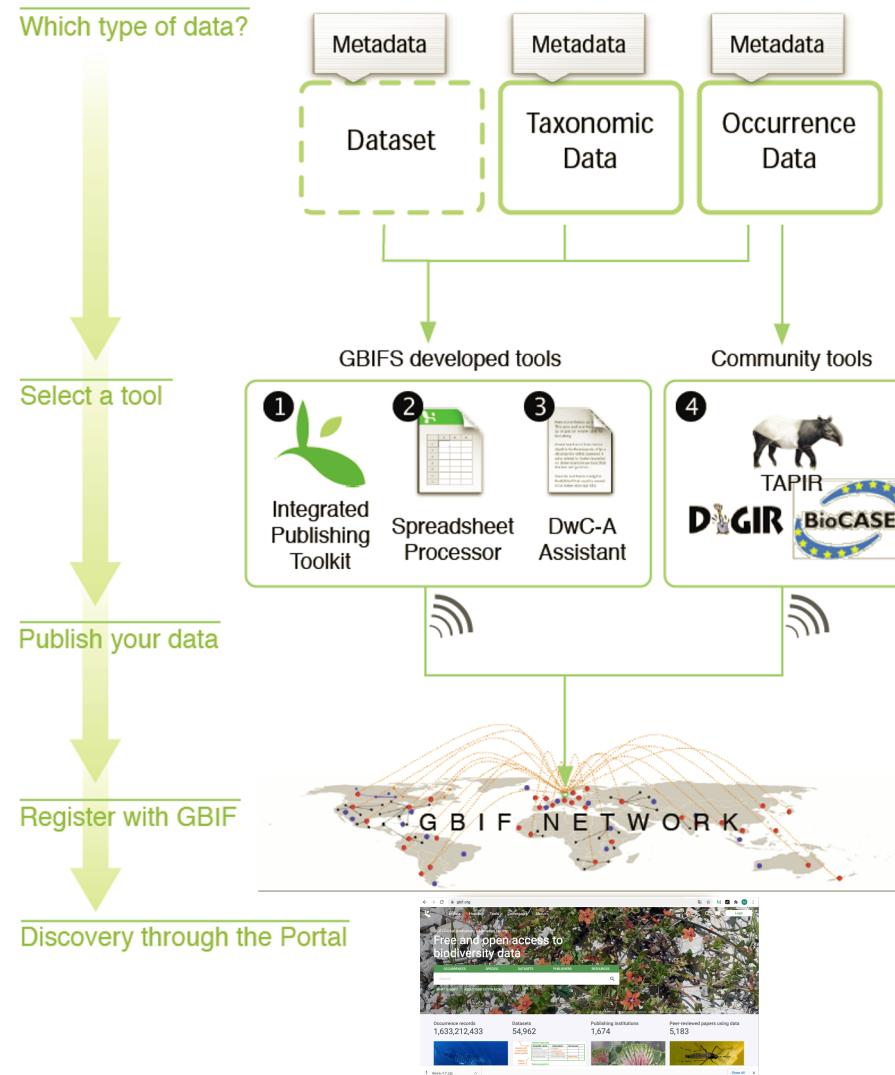
## Licencias

- Todo en GBIF tiene ahora licencias
- Elección entre:
  - Public domain: CC0
  - Creative Commons Attribution: CC-BY
  - Creative Commons Attribution Non Commercial: CC-BY-NC



# Publicación de datos

Orígenes de los datos y Darwin Core



# Herramienta para la Publicación Integrada de Datos (IPT)

- **Programa en el servidor**, requiere una conexión estable.
- Un IPT **puede servir muchos conjuntos de datos**, en nombre de diversas instituciones, dando el crédito correspondiente.
- Herramienta recomendada para la **publicación de datos en GBIF**.
- Modo de prueba y modo de producción.
- **Multilingüe**

# Elegir en núcleo Ocurrencia en el IPT



Logged in as pameron@gbif.fr [Account](#) [Logout](#) [ENGLISH](#)

[Home](#)[Manage Resources](#)[Administration](#)[About](#)

## ① Overview: [occurrence\\_core](#)

This is the overview page for the *occurrence\_core* resource.

**① Source Data**

Choisissez un fichier Aucun fichier choisi  
[Connect to database](#) [Clear](#)

Your source data files and SQL sources for generating a Darwin Core Archive.

Last modified Aug 19, 2016

[hounsaclen\\_clean\\_ok \[excel\]](#) 371.5 KB, 816 rows, 45 columns. Aug 19, 2016 [Edit](#)

**① Darwin Core Mappings**

Darwin Core Occurrence ▾ [Add](#)

Your mapping between the source data and Darwin Core terms.

**① Metadata**

[Edit](#) ⚠

Your resource metadata.

**① Published Versions**

[Publish](#) ⚠

A preview of your pending published version compared with the current version if existing.

Version	Pending version
Visibility	1.0 <a href="#">Preview</a>
Data Licence	Private
-	

Auto-publishing  
[Select interval](#) ▾ [\(i\)](#)

# Mapeo para datos de Ocurrencia

## Occurrence

### Field Index

Record-level

MaterialSample

Occurrence

Organism

Event

Location

GeologicalContext

Identification

Taxon

### Field Filters

Hide unmapped fields

[Save](#) [Delete](#) [Back](#)

<a href="#"></a> <b>catalogNumber</b> Source Sample:         Translation: <a href="#">Add</a>	<input type="text" value="catalogNumber"/> <a href="#">catalogNumber</a>
<a href="#"></a> <b>occurrenceRemarks</b>	<input type="text"/> <a href="#">occurrenceRemarks</a>
<a href="#"></a> <b>recordNumber</b>	<input type="text"/> <a href="#">recordNumber</a>
<a href="#"></a> <b>recordedBy</b> Source Sample: Hounsa Michaël Archange Feurdence   Hounsa Michaël Archange Feurdence   Hounsa Michaël Archange Feurdence   Hounsa Michaël Archange Feurdence   Hounsa Michaël Archange Feurdence Translation: <a href="#">Add</a>	<input type="text" value="recordedBy"/> <a href="#">recordedBy</a>
<a href="#"></a> <b>individualCount</b>	<input type="text"/> <a href="#">individualCount</a>
<a href="#"></a> <b>organismQuantity</b>	<input type="text"/> <a href="#">organismQuantity</a>
<a href="#"></a> <b>organismQuantity Type</b>	<input type="text"/> <a href="#">organismQuantity Type</a> <a href="#"></a>
<a href="#"></a> <b>sex</b> Source Sample:         Translation: <a href="#">Add</a>	<input type="text" value="sex"/> <a href="#">sex</a>
<a href="#"></a> <b>lifeStage</b>	<input type="text"/> <a href="#">lifeStage</a>
<a href="#"></a> <b>reproductiveCondition</b>	<input type="text"/> <a href="#">reproductiveCondition</a>
<a href="#"></a> <b>behavior</b>	<input type="text"/> <a href="#">behavior</a>
<a href="#"></a> <b>establishmentMeans</b>	<input type="text"/> <a href="#">establishmentMeans</a>
<a href="#"></a> <b>occurrenceStatus</b>	<input type="text"/> <a href="#">occurrenceStatus</a>
<a href="#"></a> <b>preparations</b>	<input type="text"/> <a href="#">preparations</a>
<a href="#"></a> <b>disposition</b>	<input type="text"/> <a href="#">disposition</a>
<a href="#"></a> <b>otherCatalogNumbers</b>	<input type="text"/> <a href="#">otherCatalogNumbers</a>
<a href="#"></a> <b>associatedMedia</b> Source Sample:	<input type="text" value="associatedMedia"/> <a href="#">associatedMedia</a>

# Núcleo Taxón

# Plantilla de GBIF para datos de Taxón

A	B	C	D	E	F	G
taxonID	parentNameUsageID	parentNameUsage	acceptedNameUsageID	acceptedNameUsage	scientificName	nameAccordingToID
1	73			73 Equisetopsida C. Aghard	Equisetopsida C. Aghard	<a href="http://dx.doi.org/10.1111/j.1095-8339.2009.0100">http://dx.doi.org/10.1111/j.1095-8339.2009.0100</a>
2	26	73 Equisetopsida C. Aghard		26 Equisetidae Warming	Equisetidae Warming	<a href="http://dx.doi.org/10.1111/j.1095-8339.2009.0100">http://dx.doi.org/10.1111/j.1095-8339.2009.0100</a>
3	25	26 Equisetidae Warming		25 Equisetales de Candolle ex Berchtold & J. Presl	Equisetales de Candolle ex Berchtold & J. Presl	<a href="http://www.jstor.org/stable/25065646">http://www.jstor.org/stable/25065646</a>
4	128	25 Equisetales de Candolle ex Berchtold & J. Presl		128 Equisetaceae Michaux ex de Candolle	Equisetaceae Michaux ex de Candolle	<a href="http://www.jstor.org/stable/25065646">http://www.jstor.org/stable/25065646</a>
5	1142	128 Equisetaceae Michaux ex de Candolle		1142 Equisetum Linnaeus	Equisetum Linnaeus	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
6	2004	1142 Equisetum Linnaeus		2004 Equisetum subg. Equisetum	Equisetum subg. Equisetum	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
7	5467	2004 Equisetum subg. Equisetum		5467 Equisetum fluviatile Linnaeus	Equisetum fluviatile Linnaeus	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
8	5466	2004 Equisetum subg. Equisetum		5466 Equisetum arvense Linnaeus	Equisetum arvense Linnaeus	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
9	5472	2004 Equisetum subg. Equisetum		5472 Equisetum pratense Ehrhart	Equisetum pratense Ehrhart	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
10	5471	2004 Equisetum subg. Equisetum		5471 Equisetum palustre Linnaeus	Equisetum palustre Linnaeus	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
11	5474	2004 Equisetum subg. Equisetum		5474 Equisetum sylvaticum Linnaeus	Equisetum sylvaticum Linnaeus	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
12	5482	2004 Equisetum subg. Equisetum		5482 Equisetum ×litorale Kühlein ex Ruprecht	Equisetum ×litorale Kühlein ex Ruprecht	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
13	5476	2004 Equisetum subg. Equisetum		5476 Equisetum telmateia Ehrhart	Equisetum telmateia Ehrhart	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
14	15836	5476 Equisetum telmateia Ehrhart		15836 Equisetum telmateia subsp. braunii (J. Milde) Hau	Equisetum telmateia subsp. braunii (J. Milde) Hau	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
15	5481	2004 Equisetum subg. Equisetum		5481 Equisetum ×font-queri Rothmaler	Equisetum ×font-queri Rothmaler	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
16	2005	1142 Equisetum Linnaeus		2005 Equisetum subg. Hippochaete (J. Milde) Baker	Equisetum subg. Hippochaete (J. Milde) Baker	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
17	5473	2005 Equisetum subg. Hippochaete (J. Milde) Baker		5473 Equisetum scirpoideus Michaux	Equisetum scirpoideus Michaux	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
18	5484	2005 Equisetum subg. Hippochaete (J. Milde) Baker		5484 Equisetum ×nelsonii (A.A. Eaton) J.H. Schaffner	Equisetum ×nelsonii (A.A. Eaton) J.H. Schaffner	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
19	5478	2005 Equisetum subg. Hippochaete (J. Milde) Baker		5478 Equisetum variegatum Schleicher ex F. Weber & D. Mohr	Equisetum variegatum Schleicher ex F. Weber & D. Mohr	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
20	5477	5478 Equisetum variegatum Schleicher ex F. Weber & D. Mohr		5477 Equisetum variegatum subsp. alaskanum (A.A. Eat)	Equisetum variegatum subsp. alaskanum (A.A. Eat)	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
21	5479	5478 Equisetum variegatum Schleicher ex F. Weber & D. Mohr		5479 Equisetum variegatum Schleicher ex F. Weber & D.	Equisetum variegatum Schleicher ex F. Weber & D.	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
22	5470	2005 Equisetum subg. Hippochaete (J. Milde) Baker		5470 Equisetum laevigatum A. Braun	Equisetum laevigatum A. Braun	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
23	5480	2005 Equisetum subg. Hippochaete (J. Milde) Baker		5480 Equisetum ×ferrissii Clute	Equisetum ×ferrissii Clute	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
24	5469	2005 Equisetum subg. Hippochaete (J. Milde) Baker		5469 Equisetum hyemale Linnaeus	Equisetum hyemale Linnaeus	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
25	5468	5469 Equisetum hyemale Linnaeus		5468 Equisetum hyemale subsp. affine (Engelmann)	Equisetum hyemale subsp. affine (Engelmann)	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>
26	5483	2005 Equisetum subg. Hippochaete (J. Milde) Baker		5483 Equisetum ×mackayi (Newman) Brichan	Equisetum ×mackayi (Newman) Brichan	<a href="http://www.efloras.org/volume_page.aspx?volum">http://www.efloras.org/volume_page.aspx?volum</a>

# Elegir el núcleo Taxón en el IPT



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## ① Overview: [taxon\\_core](#)

This is the overview page for the *taxon\_core* resource.

**② Source Data**

Choisissez un fichier Aucun fichier choisi  
[Connect to database](#) [Clear](#)

Your source data files and SQL sources for generating a Darwin Core Archive.

Last modified Aug 19, 2016

hounsaclean\_ok [excel]

371.5 KB, 816 rows, 45 columns. Aug 19, 2016

[Edit](#)

**③ Darwin Core Mappings**

Darwin Core Occurrence ▾  
Core  
Darwin Core Occurrence  
**Darwin Core Taxon**  
Darwin Core Event  
[Edit](#)

Your mapping between the source data and Darwin Core terms.

**④ Published Versions**

[Publish](#)

Auto-publishing  
[Select interval](#)

A preview of your pending published version compared with the current version if existing.

Version	Pending version
Visibility	1.0 <a href="#">Preview</a>
Data Licence	Private
Published on	-

# Mapeo para datos taxonómicos

## Mapping Source Data

Mapping source data [hounsaclean\\_ok](#) to core extension: [Darwin Core Taxon](#).

<input type="button" value="taxonID"/> ⓘ	No ID	▼
<input type="button" value="Filter"/> ⓘ	AfterTranslation	▼

### Taxon

#### Field Index

Taxon

Record-level

Unmapped columns

#### Field Filters

Hide unmapped fields

<input type="button" value="scientificNameID"/> ⓘ	▼	▼
<input type="button" value="acceptedNameUsageId"/> ⓘ	▼	▼
<input type="button" value="parentNameUsageId"/> ⓘ	▼	▼
<input type="button" value="originalNameUsageId"/> ⓘ	▼	▼
<input type="button" value="nameAccordingToID"/> ⓘ	▼	▼
<input type="button" value="namePublishedInID"/> ⓘ	▼	▼
<input type="button" value="taxonConceptID"/> ⓘ	▼	▼
<input type="button" value="scientificName"/> ⓘ	scientificName	▼
Source Sample: <i>Albizia zygia</i>   <i>Celtis zenkeri</i>   <i>Celtis zenkeri</i>   <i>Celtis zenkeri</i>   <i>Celtis zenkeri</i>		
Translation: <input type="button" value="Add"/>		
<input type="button" value="acceptedNameUsage"/> ⓘ	▼	▼
<input type="button" value="parentNameUsage"/> ⓘ	▼	▼
<input type="button" value="originalNameUsage"/> ⓘ	▼	▼
<input type="button" value="nameAccordingTo"/> ⓘ	▼	▼
<input type="button" value="namePublishedIn"/> ⓘ	▼	▼

# Núcleo Evento

# Plantilla de GBIF para datos de Evento

A	B	C	D	E	F	G	H	I	J	K	L	M
eventID	samplingProtocol	samplingEffort	sampleSizeValue	sampleSizeUnit	eventDate	eventTime	startDayOfYear	eventRemarks	country	countryCode	locality	locationID
2 994-tr009-s00	Pollard walks	Average of 30 Minutes walk along transect	250	square metre	2012-10-11	09:28:02Z/10:16:02Z	284	No occurrences	Israel	IL	Sde boker reches halukim	tr009-s00
3 3502-tr056-s6	Pollard walks	Average of 30 Minutes walk along transect	250	square metre	2015-10-19	12:25:02Z/13:10:02Z	291		Israel	IL	Nahal Kovshim Beer Sheva	tr056-s6
4 3502-tr056-s9	Pollard walks	Average of 30 Minutes walk along transect	250	square metre	2015-10-19	12:25:02Z/13:10:02Z	291		Israel	IL	Nahal Kovshim Beer Sheva	tr056-s9

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
eventID	occurrenceID	basisOfRecord	individualCount	organismQuantity	organismQuantityType	occurrenceStatus	scientificName	kingdom	phylum	class	order	family	infraspecificEpithet	taxonRank	recordedBy
2 1382-tr009-s00	1382-tr009-s00-0	HumanObservation	0	0 individuals	absent	Lepidoptera	Animalia	Arthropoda	Insecta	Lepidoptera				order	Evitar Fingo
3 3502-tr056-s6	3502-tr056-s6-21114	HumanObservation	3	3 individuals	present	Azanus jesous	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae			species	Zvika Avni
4 3502-tr056-s6	3502-tr056-s6-21126	HumanObservation	1	1 individuals	present	Melitaea trivia	Animalia	Arthropoda	Insecta	Lepidoptera	Nymphalidae			species	Zvika Avni
5 3502-tr056-s6	3502-tr056-s6-21127	HumanObservation	3	3 individuals	present	Deudorix lilia	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae			species	Zvika Avni
6 3502-tr056-s6	3502-tr056-s6-21129	HumanObservation	1	1 individuals	present	Azanus ubaldus	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae			species	Zvika Avni
7 3502-tr056-s6	3502-tr056-s6-21132	HumanObservation	1	1 individuals	present	Lycaena thersamon	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae			species	Zvika Avni
8 3502-tr056-s9	3502-tr056-s9-21116	HumanObservation	1	1 individuals	present	Azanus jesous	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae			species	Zvika Avni
9 3502-tr056-s9	3502-tr056-s9-21122	HumanObservation	1	1 individuals	present	Tarucus balkanica	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae			species	Zvika Avni
10 3502-tr056-s9	3502-tr056-s9-21131	HumanObservation	1	1 individuals	present	Azanus ubaldus	Animalia	Arthropoda	Insecta	Lepidoptera	Lycaenidae			species	Zvika Avni

Los datos de Evento usualmente se presentan en varias hojas: datos acerca del evento propiamente dicho (transecto, trampa, cuadrante, entre otros), datos acerca de las ocurrencias registradas para cada evento, datos acerca de la variables, entre otros.

# Elegir el núcleo Evento en el IPT



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## ① Overview: [event\\_core](#)

This is the overview page for the event\_core resource.

### ① Source Data

Choisissez un fichier Aucun fichier choisi  
[Connect to database](#) [Clear](#)

Your source data files and SQL sources for generating a Darwin Core Archive.

Last modified Aug 19, 2016

hounsclean\_ok [excel]

371.5 KB, 816 rows, 45 columns. Aug 19, 2016

[Edit](#)

### ① Darwin Core Mappings

Darwin Core Occurrence ▼  
Core  
Darwin Core Occurrence  
Darwin Core Taxon  
Darwin Core Event

Your mapping between the source data and Darwin Core terms.

Your resource metadata.

### ① Published Versions

[Publish](#)

Auto-publishing

Select interval ▼

A preview of your pending published version compared with the current version if existing.

Pending version

1.0 [Preview](#)

Visibility

Private

Data Licence

-

Published on

-

# Mapeo para el núcleo Evento (Datos de muestras)

## Event

### Field Index

Record-level

Event

Location

GeologicalContext

Unmapped columns

### Field Filters

Hide unmapped fields

[Save](#) [Delete](#) [Back](#)

① <b>parentEventID</b>	<input type="text"/>	<input type="text"/>
① <b>samplingProtocol</b>	<input type="text"/> samplingProtocol	<input type="text"/>
Source Sample: Hole of 0.0340 ha   Hole of 0.0340 ha   Hole of 0.0130 ha   Hole of 0.0080 ha   Hole of 0.0220 ha		
Translation: <a href="#">Add</a>		
① <b>sampleSizeValue</b>	<input type="text"/>	<input type="text"/>
① <b>sampleSizeUnit</b>	<input type="text"/>	<input type="text"/> <a href="#">Edit</a>
① <b>samplingEffort</b>	<input type="text"/>	<input type="text"/>
① <b>eventDate</b>	<input type="text"/> eventDate	<input type="text"/>
Source Sample: 9/7/11   7/22/11   9/13/11   9/13/11   9/16/11		
Translation: <a href="#">Add</a>		
① <b>eventTime</b>	<input type="text"/>	<input type="text"/>
① <b>startDayOfYear</b>	<input type="text"/>	<input type="text"/>
① <b>endDayOfYear</b>	<input type="text"/>	<input type="text"/>
① <b>year</b>	<input type="text"/> year	<input type="text"/>
Source Sample: 2011   2011   2011   2011   2011		
Translation: <a href="#">Add</a>		
① <b>month</b>	<input type="text"/> month	<input type="text"/>
Source Sample: 9   7   9   9   9		
Translation: <a href="#">Add</a>		
① <b>day</b>	<input type="text"/> day	<input type="text"/>
Source Sample: 7   22   13   13   16		
Translation: <a href="#">Add</a>		
① <b>verbatimEventDate</b>	<input type="text"/>	<input type="text"/>
① <b>habitat</b>	<input type="text"/> habitat	<input type="text"/>
Source Sample: Secondary forests on hydromorphic soil   Secondary forests on hydromorphic soil		
Translation: <a href="#">Add</a>		

# Extensiones a Darwin Core

## Dónde encontrar las Extensiones

GBIF INTEGRATED PUBLISHING TOOLKIT<sup>(IPT)</sup>  
free and open access to biodiversity data

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IPT settings [Publish all resources](#)

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GBIF registration options

Organisations

Core Types and Extensions

Logs

IPT Version 2.3.2-re-a67259 [About the IPT](#) [User manual](#) [Report a bug](#) [Request new feature](#)

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# Algunos ejemplos de Extensiones existentes

## Extensions

Extensions provide the means to associate additional data with a record of the Core Type. Each Extension is meant to accommodate a different type of data. Please install all of the Extensions you require from the list below.

### [Darwin Core Resource Relationship](#)

[Remove](#)

Support for generic resource relations according to Darwin Core terms.  
See also <http://rs.tdwg.org/dwc/terms/index.htm#relindex>

Issued	Feb 13, 2015
Properties	7
Name	ResourceRelationship
Namespace	<a href="http://rs.tdwg.org/dwc/terms/">http://rs.tdwg.org/dwc/terms/</a>
RowType	<a href="http://rs.tdwg.org/dwc/terms/ResourceRelationship">http://rs.tdwg.org/dwc/terms/ResourceRelationship</a>

### [Germplasm \(0.1\)](#)

[Remove](#)

WARNING! THIS DRAFT GERMPLASM EXTENSION HAS BEEN DEPRECATED. SEE:  
<http://rs.gbif.org/extension/germplasm/> FOR THE CURRENT GERMPLASM EXTENSIONS.  
See also <http://rs.nordgen.org/dwc/>

Issued	Feb 13, 2015
Properties	50
Name	GermplasmSample
Namespace	<a href="http://rs.nordgen.org/dwc/germplasm/0.1/terms/">http://rs.nordgen.org/dwc/germplasm/0.1/terms/</a>
RowType	<a href="http://rs.nordgen.org/dwc/germplasm/0.1/terms/GermplasmSample">http://rs.nordgen.org/dwc/germplasm/0.1/terms/GermplasmSample</a>
Keywords	dwc:Occurrence

### [Germplasm accession \(v20140515\)](#)

[Remove](#)

The Germplasm Vocabulary provides a set of terms (supplementing the Darwin Core terms) for describing genebank accessions. These terms are maintained by the thematic community of plant genetic resources for food and agriculture (PGRFA). Most of these terms are imported from the Multi-Crop Passport Descriptor List (MCPD) maintained by Bioversity International and the Food and Agriculture Organization of the United Nations (FAO). Some terms were also developed by the European Cooperative Programme for Plant Genetic Resources (ECPGR).  
See also <http://purl.org/germplasm/germplasmTerm>

Issued	May 20, 2014
Properties	37
Name	GermplasmAccession
Namespace	<a href="http://purl.org/germplasm/germplasmTerm#">http://purl.org/germplasm/germplasmTerm#</a>
RowType	<a href="http://purl.org/germplasm/germplasmTerm#GermplasmAccession">http://purl.org/germplasm/germplasmTerm#GermplasmAccession</a>

### [Alternative Identifiers](#)

[Remove](#)

See also <http://rs.gbif.org/extension/gbif/1.0/identifier.xml>

Issued Feb 13, 2015

# Plinian Core (PLIC)

## Plinian Core Standard

### Title

Plinian Core, a Species-level Data Specification

### Date ratified

TBD

### Status

Current standard

### Category

Technical specification

### Permanent IRI

<http://www.tdwg.org/standards/777>

### Abstract

Plinian Core is a set of vocabulary terms that can be used to describe different aspects of biological species information. Under "biological species Information" all kinds of properties or traits related to taxa—biological and non-biological—are included. Thus, for instance, terms pertaining descriptions, legal aspects, conservation, management, demographics, nomenclature, or related resources are incorporated.

### Creator

Plinian Core Task Group, [Biodiversity Information Standards \(TDWG\)](#)

### Bibliographic citation

Plinian Core Task Group. 2021. Plinian Core, a Species-level Data Specification. Biodiversity Information Standards (TDWG).

<http://www.tdwg.org/standards/777>

# Plinian Core (PLIC)

## Classes

plic:BaseElements | plic:Dataset\_ID | plic:ManagementAndConservationType | plic:Migratory | plic:MigratoryAtomized | plic:MolecularData | plic:NaturalHistory | plic:NomenclatureAndClassification | plic:PopulationBiology | plic:RecordMetadata | plic:Reproduction | plic:ScientificName | plic:SeasonOfAvailability-Use | plic:SourceOfInformation | plic:SpeciesInteraction | plic:TaxonRecord | plic:ancillaryData | plic:annualCycleAtomized | plic:annualCycles | plic:behavior | plic:dataset | plic:directThreatAtomized | plic:directThreats | plic:dispersal | plic:ecologicalSignificance | plic:endemic | plic:environmentalEnvelope | plic:feeding | plic:fullDescription | plic:habitatAndDistribution | plic:habitats | plic:hierarchy | plic:identificationKeys | plic:interactions | plic:invasiveness | plic:legislation | plic:lifeCycle | plic:lifeForm | plic:managementAndConservationAtomized | plic:metadata | plic:references | plic:revision | plic:synonyms | plic:synonymsAtomized | plic:synonymsType | plic:taxonomicalDescription | plic:territory | plic:threatStatus | plic:threatStatusUnstructured | plic:uses | plic:usesAtomized

## Metadata

plic:Dataset\_ID | plic:TaxonRecord | plic:ancillaryData | plic:dataset | plic:dateStamp | plic:metadata | plic:references | plic:resourceLogoUrl

## Base Elements

plic:BaseElements | plic:abstract | plic:taxonRecordID

## Record Metadata

plic:Audience | plic:RecordMetadata | plic:audiencesUnstructured | plic:created | plic:language | plic:revision | plic:version

## Nomenclature And Classification

plic:Language | plic:Name | plic:NomenclatureAndClassification | plic:NomenclatureAndClassificationUnstructured | plic:ScientificName | plic:ScientificName | plic:SynonymName | plic:SynonymStatus | plic:UsedBy | plic:UsedIn | plic:commonNames | plic:commonNamesAtomized | plic:commonNamesUnstructured | plic:detailAtomized | plic:detailUnstructured | plic:hierarchy | plic:svnonvms | plic:svnonvmsAtomized | plic:svnonvmsAtomizedType | plic:svnonvmsType | plic:svnonvmsUnstructured |

## Referencias

Pamerlon, S. (2017). Orígenes de los datos: ejemplos e ilustraciones [Diapositivas de PowerPoint]. Taller BID PROGRAMME Global Biodiversity Information Facility.

Pando, F. (2010). Normas para el manejo e intercambio de información sobre biodiversidad [Diapositivas de PowerPoint]. Taller “GBIF Cuba 2010”. Proyecto de “Mentoring” de GBIF.