



Formation GBIF France dans le cadre d'Ecoscope - Valoriser ses données d'observation sur la biodiversité : qualité, standards et publication

Paris, 15-16 septembre 2015

Comment publier des données d'occurrence et enregistrer des jeux de données au GBIF

<u>gbif@gbif.fr</u>

Twitter: @gbiffrance

Terminologie

- Fournisseur de données (Data Publisher, Provider)
- Jeu de données, Ressource (Data Resource, data set)
- Type de ressource (Métadonnées, Occurrences, Taxons)
- Enregistrements (Data record)
- Champs, concept, colonne
 (Data record element, term, field, column, property, attribute, concept (e.g., BasisOfRecord, scientificName)
- Valeurs (Data value)
- Standards, Vocabulaires





Fournisseurs de données



Institutions or individus ayant une seule ressource



Institutions, groupes, ou individus ayant plusieurs ressources



Institutions avec plusieurs départements, chacun ayant plusieurs ressources.





Types de ressources



Métadonnées – décrivant les jeux de données d'*Occurrences* et de *Taxons*.



Données primaires (Specimens & Observations, Données écologiques)

 La donnée source est l'Occurrence de l'organisme



Catalogues taxonomiques et Checklists.

• La donnée source est le *Taxon*





Standards d'échange





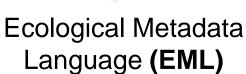






Données taxonomiques





- Description riche des jeux de données
- GBIF Profile



- 180 concepts
- Ratifié en 2009 (TDWG)
- Fichiers texte
- Extensible

Ou ABCD (TDWG)

- >1200 concepts
- Utilisé par Biocase et Tapir





Enregistrements

Ressource de type Taxon

TaxonID	Kingdom	Phylum	Class	Order	Family	Genus	Species
1	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	apricans
2	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	conspicuus
3	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	draconicus
4	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	elegans

Ressource de type Occurrence

- 10						
	OccurrenceID	institutionCode	collectionCode	catalogNumber	scientificName	locality
	1	MCZ	HERPAMPH	A-16806	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
	2	MCZ	HERPAMPH	A-16807	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
	3	MCZ	HERPAMPH	A-16808	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
	4	MCZ	HERPAMPH	A-16809	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
Į	4	MCZ	HERPAMPH	A-16809	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Te



Champs

Taxon resource type

TaxonID	Kingdom	Phylum	Class	Order	Family	Genus	Species	
1	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	apricans	
2	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	conspicuus	
3	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	draconicus	
4	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	elegans	



						The second secon
	OccurrenceID	institutionCode	collectionCode	catalogNumber	scientificName	locality
	1	MCZ	HERPAMPH	A-16806	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
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Valeurs

Taxon resource type

TaxonID	Kingdom	Phylum	um Class Order		Family	Family Genus	
1	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	apricans
2	2 Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	conspicuus
3	Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	draconicus
4	4 Animalia	Arthropoda	Insecta	Odonata	Synlestidae	Chlorolestes	elegans



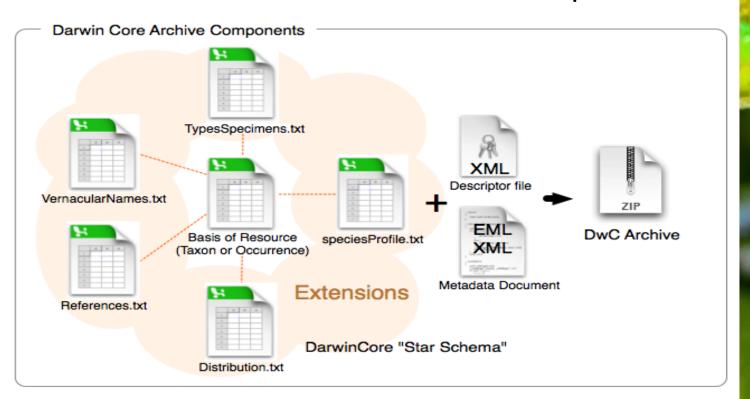
-						
	OccurrenceID	institutionCode	collectionCode	catalogNumber	scientificName	locality
	1	MCZ	HERPAMPH	A-16806	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
	2	MCZ	HERPAMPH	A-16807	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
	3	MCZ	HERPAMPH	A-16808	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
ĺ	4	MCZ	HERPAMPH	A-16809	Afrixalus fornasinii fornasinii	Morogoro: Ukani: Tanganyika Territory
ı						



Darwin Core Archive

Contenu de l'archive

- Une archive correspond à un jeu de données
- Fichiers formatés par le standard Darwin Core
- Données d'occurrences ou taxonomiques

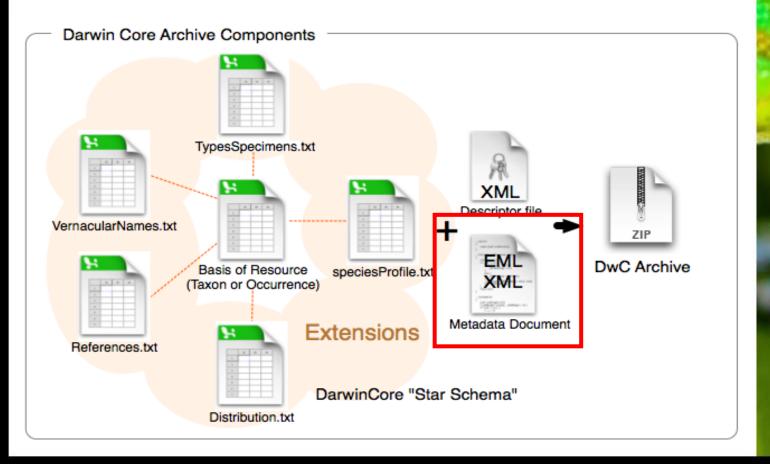






Darwin Core Archive: Anatomie

Les archives ont toujours un fichier de métadonnées EML







Ecological Metadata Language (EML)

Décrit les jeux de données

– même ceux qui ne sont pas publiés



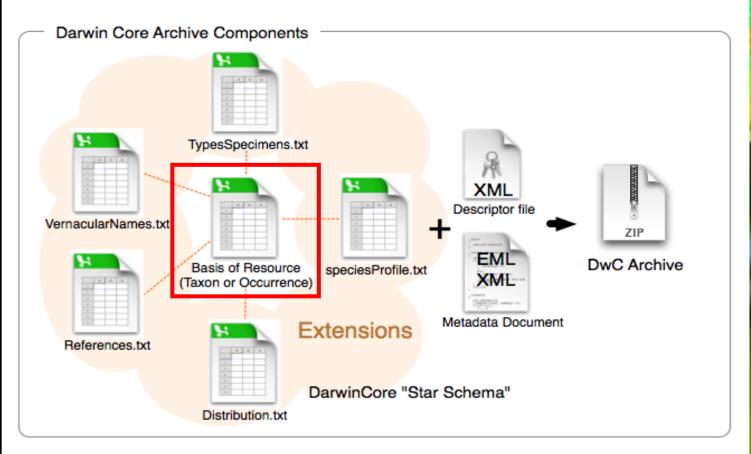
- Titre et Description
- Citation et Attribution
- Contacts et Auteurs
- Couverture Géographique
- Méthode d'échantillonnage
- Bibliographie
- Et plus...





Darwin Core Archive: Anatomie

Les archives ont toujours un fichier de données principal (Core Data File)

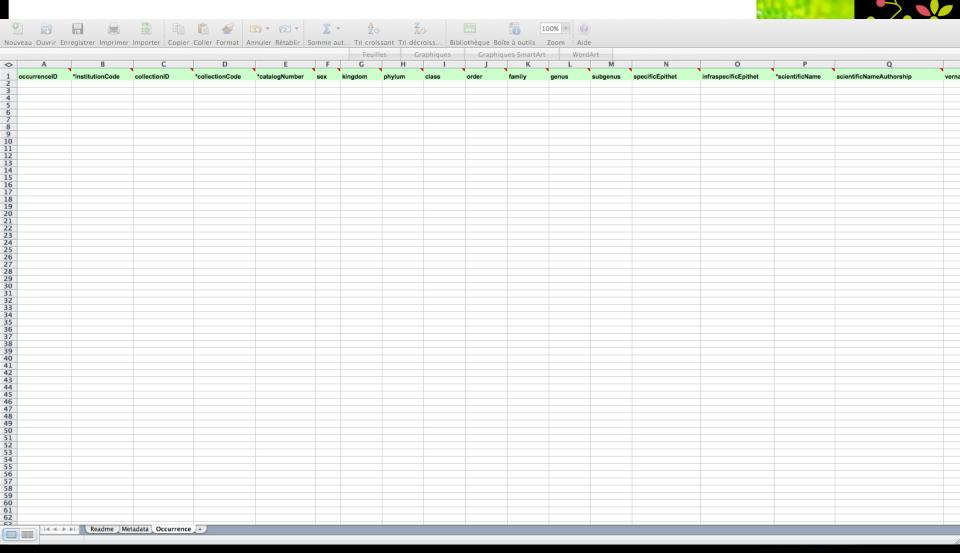






Fichier excel modèle : page occurrences

Fourni aux gestionnaires de données par le GBIF France Champs = termes DwC (mapping automatique par la suite)

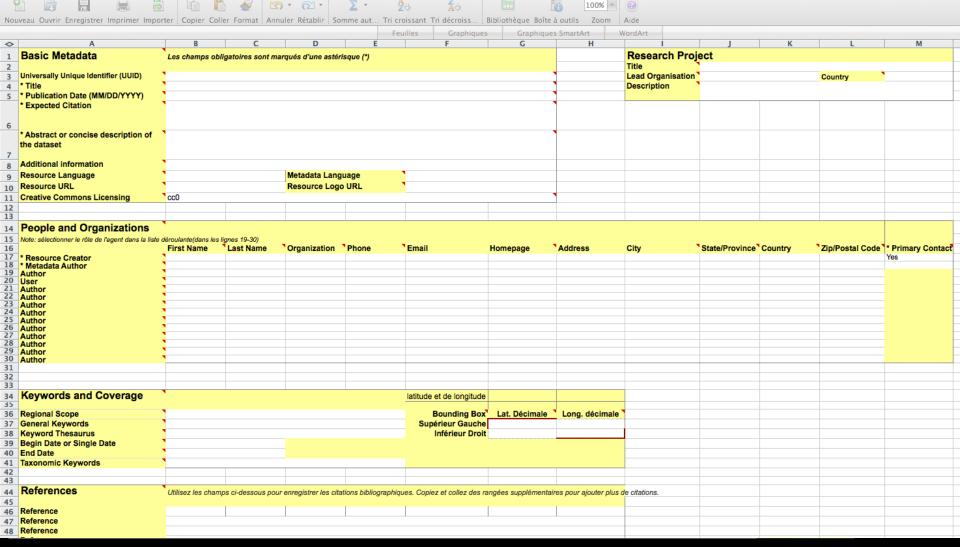


www.gbif.org

Fichier excel modèle : page métadonnées

Facilite le remplissage des métadonnées sur l'IPT





Termes Darwin Core

Darwin Core = standard de données → interopérabilité

Termes obligatoires (* dans le fichier modèle) :

- institutionCode (ex : MNHN) : nom ou acronyme de l'institution ayant la garde de l'occurrence
- catalogNumber (ex : PPG-CF-00001) : identifiant (si possible unique) de chaque occurrence dans le jeu de données ou la collection
- collectionCode (ex : Entomologie) : nom ou acronyme du jeu de données ou de la collection dont l'occurrence provient
- scientificName (ex: Canis lupus) : nom scientifique complet avec paternité et date (si connus)
- basisOfRecord (ex : observation, specimen, fossil...) : nature spécifique de l'enregistrement





Termes importants:

taxonomie, géographie (surtout latitude et longitude), conditions de prélèvement ou d'observation, contexte géologique, date, habitat, médias associés...

Possibilité d'ajouter des extensions (vocabulaire plus spécifique) :

- -Taxonomie détaillée
- Ajout de noms vernaculaires
- Images
- . . .

Pour plus d'informations (définition et traduction des termes Darwin Core) : http://terms.tdwg.org/wiki/Darwin_Core





Darwin Core Archive

Le dossier est zippé







Ceci est une archive DarwinCore

- Fichiers de données
- Fichier de correspondance des colonnes (meta.xml)
- Fichier de métadonnées (eml.xml)





Darwin Core Archive: avantages

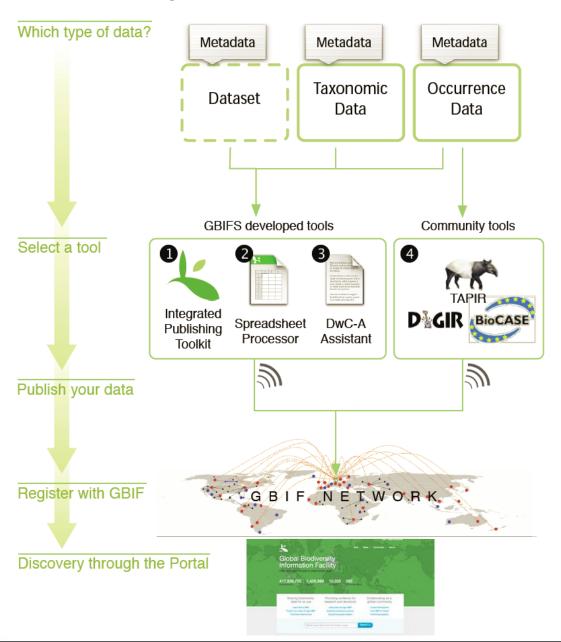
- Format simple (Fichiers texte)
- Stockage efficace (compressé)
- Récolte efficace (un seul fichier)
- Simple d'accès (pas besoin de logiciel spécifique)
- Extensible

Format le plus souvent utilisé pour la publication des données sur le réseau GBIF





Processus de publication des données







Présentation de l'IPT (Integrated Publishing Toolkit)





Pour installer l'IPT

- Version 2.3
- Serveur Tomcat
- Disponible sur Google Code







Gestionnaire

<u>Lister les applications</u> <u>Aide HTML Gestionnaire</u> <u>Aide Gestionnaire</u> <u>Etat du serveur</u>

Applications	Applications									
Chemin	Version	Nom d"affichage	Fonctionnelle	Sessions	Commandes					
,	None specified	Welcome to Tomcat	true	0	Démarrer Arrêter Recharger Retirer					
Ĺ	None specified	welcome to forndat		<u>0</u>	Expirer les sessions inactives depuis ≥ 30 minutes					
/docs	None specified	Tomcat Documentation	true	<u>0</u>	Démarrer Arrêter Recharger Retirer					
<u>ruocs</u>	попе эреспец	Torreat Documentation		2	Expirer les sessions inactives depuis ≥ 30 minutes					
/examples	None specified	Servlet and JSP Examples	true	0	Démarrer Arrêter Recharger Retirer					
<u>rexamples</u>	попе зресшей	Service and JOF Examples	lide	<u>0</u>	Expirer les sessions inactives depuis ≥ 30 minutes					
host manager	N	Tomast Heat Manager Application	true	0	Démarrer Arrêter Recharger Retirer					
/host-manager	None specified	Tomcat Host Manager Application		<u>0</u>	Expirer les sessions inactives depuis ≥ 30 minutes					
Ent	None enceitied	IPT	truo	0	Démarrer Arrêter Recharger Retirer					
<u>/ipt</u>	None specified	11-1	true	<u>0</u>	Expirer les sessions inactives depuis ≥ 30 minutes					
			true		Démarrer Arrêter Recharger Retirer					
/manager	None specified	Tomcat Manager Application		1	Expirer les sessions inactives depuis ≥ 30 minutes					







GBIF INTEGRATED PUBLISHING TOOLKIT [IPT]

free and open access to biodiversity data

IPT setup

IPT data directory

To use the IPT you must select a directory where the IPT will store its configuration information - called the IPT data directory.

Please select an empty, writable folder or an existing IPT data directory. Do not select a folder that is vulnerable to other processes, such as /tmp, which may be emptied on a system restart. This folder should be backed up regularly in keeping with a disaster recovery plan.

For example, use a path such as "C:\datadir" for Windows environments or "/usr/datadir" for Unix-like environments such as Linux, Mac OS X.

/Users/MEGAUTIER/IPT_data

Save

IPT Version 2.0.5-r4398-security-update-1

About the IPT project

User manual

Report a bug

Request new feature

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来體中义 PORTUGUÊS

FRANÇAISE ESPAÑOL

ENGLISH



IPT setup part II

Please provide additional information for the basic IPT setup.



You have successfully created a new data directory.

Default administrator

Verify Password

••••

The password for the default administrator account can be modified later on, but the email cannot be changed without removing and re-creating the user.

Email melecoq@gbif.fr First Name Marie-Elise Last Name Lecoq Password ••••



IPT Mode

Select the mode you would like to run the IPT in. The IPT mode decides whether or not the hosted resources will be indexed for public search access by GBIF. GBIF recommends IPT administrators try Test mode first in order to understand the registration process, and then reinstall in Production mode for formal data publishing. **Warning**: for a given installation, this selection is final and cannot be changed later on. To switch from test to production mode or vice versa, you will have to reinstall your IPT and repeat any configurations you made.

Test mode is for evaluating the IPT or running it in a training scenario. Registrations will go into a test registry and resources will never be indexed.

Production mode is for publishing resources formally. Resources are registered into the GBIF Registry and will be indexed.

IPT mode:

Test

Production

Base URL

Base URL for this IPT

http://localhost:8080/ipt

Proxy URL











ENGLISH



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IPT setup finished

Congratulations! You have successfully installed your IPT. Please press continue to start using it.

Continue

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IPT settings (1) Publish all resources



Users accounts



GBIF registration options



Organisations

The IPT must be registered with GBIF before associating organisations



Core Types and Extensions



Logs



New User Account

Email

Email addresses identify users and cannot be changed later on. Please select them carefully when creating a new account. If an email address needs to be changed you will have to create a new account and delete the old one.

Users having a manager role are entitled to create new resources, but cannot manage resources created by other users unless they have been invited to do so in the configuration for that resource. You can create any number of users having the Admin role, but at least one must remain in the system.

	pamerlon@gbif.fr
irs	st Name
	sophie
_as	st Name
	pamerion
Rol	e
	User ‡
a	User Manager without registration rights Manager with registration rights
	Admin
/er	ify Password
S	ave Cancel







GBIF INTEGRATED PUBLISHING TOOLKUT IPTI TOOLKUT ITTI TOOLKUT IPTI TOOLKUT IPTI TOOLKUT ITTI TOOL

Logged in as melecoq@gbif.fr Account

nt Logo

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The user account was successfully created.

Users accounts

As an administrator you can create, modify, or delete user accounts.

Name Email Role

lole Last Login

Marie-Elise Lecoq melecoq@gbif.fr

Admin 1/9/14 8:58 PM

sophie pamerlon pamerlon@gbif.fr

Admin never

Create Cancel

IPT Version 2.0.5-r4398-security-update-1

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Hosted resources available through this IPT

Logo Name Organisation Type Subtype Records modified Last modified publication Next publication							Filter:	
Lorraine	Logo	Name	Organisation	Туре	Subtype	Records	 	_
Baillon Collection			Not registered	Occurrence		185,423	 2012-01-31	
Sand et de la Vallee Noire Caire-Chabrand Collection Musee de la Valle Occurrence Specimen 873 2012-12- 17 Centre de Ressources Biologiques de l'Institut Pasteur Not registered Occurrence Quile-Di-Di-Di-Di-Di-Di-Di-Di-Di-Di-Di-Di-Di-	-	Aves MZS	de la Ville de	Occurrence		17,529	2013-08-14	
17	-	Baillon Collection	Sand et de la Vallee	Occurrence		2,522	 2012-09-05	
de l'Institut Pasteur 24 CIRM-Levures Not registered Occurrence 854 2012-01- 2012-01-27 Cnidaria MZS Musée Zoologique de la Ville de Strasbourg 2,443 2011-03- 2012-04-24 Collection d'animaux marins et plantes du Museum d'Histoire Naturelle de Nice Muséum d'Histoire Naturelle de Nice Occurrence 2,731 2011-12- 2011-12- 06 Collection entomologique Naturelle de Nice Museum Henri- Decorrence 10,266 2012-01- 2012-10-18 Barthélémy Lecoq de Clermont- 13		Caire-Chabrand Collection	Musee de la Valle	Occurrence	Specimen	873	2012-12-19	
Cnidaria MZS Musée Zoologique de la Ville de Strasbourg Collection d'animaux marins et plantes du Museum d'Histoire Naturelle de Nice Museum Henri- Decurrence 10,266 2012-01- 2012-10-18 13			Not registered	Occurrence		9,329	2012-01-24	
de la Ville de Strasbourg Collection d'animaux marins et plantes du Museum d'Histoire Naturelle de Nice Collection entomologique Barthélémy de la Ville de Strasbourg Collection d'animaux marins et Muséum d'Histoire Occurrence 2,731 2011-12- 2011-12-06 06 Naturelle de Nice Collection entomologique Museum Henri- Occurrence 10,266 2012-01- 2012-10-18 13		<u>CIRM-Levures</u>	Not registered	Occurrence		854	2012-01-27	
plantes du Museum d'Histoire Naturelle de Nice Collection entomologique Barthélémy Naturelle de Nice Naturelle de Nice 06 07 08 09 09 09 09 09 09 09 09 09	-	Cnidaria MZS	de la Ville de	Occurrence		2,443	2012-04-24	
Barthélémy Lecoq de Clermont- 13	-	plantes du Museum d'Histoire		Occurrence		2,731	 2011-12-06	
			Lecoq de Clermont-	Occurrence		10,266	2012-10-18	

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Resources you have rights to manage

							Filter:		
Name	Organisation	Type	Subtype	Records	Last modified ▼	Last publication	Next publication	Visibility	Author
Guyane française caféier	INRA Antilles- Guyane	Occurrence		85	2014-01- 09	2014-01-09		Public	Sophie Pamerlon
Guadeloupe manguier	INRA Antilles- Guyane	Occurrence		982	2014-01- 09	2014-01-09		Public	Sophie Pamerlon
Guyane Cacaoyer	INRA Antilles- Guyane	Occurrence		551	2014-01- 09	2014-01-09		Public	Sophie Pamerlon
Guadeloupe Taro	INRA Antilles- Guyane	Occurrence		982	2014-01- 09	2014-01-09		Public	Franciane Nuissier
Guadeloupe Ananas	INRA Antilles- Guyane	Occurrence		982	2014-01- 09	2014-01-09		Public	Sophie Pamerlon
Reunion Coffea	Not registered	Occurrence		808	2014-01- 09	2014-01-09		Private	Sophie Pamerlon
Guadeloupe Bananier	INRA Antilles- Guyane	Occurrence		982	2014-01- 09	2014-01-09		Public	Sophie Pamerlon
TAXREF_v7	BRC Forage and turf, INRA Lusignan	Occurrence		407,137	2013-12- 10	2013-11-28		Public	Sophie Pamerlon
Macrophytes_CLF	Not registered	Occurrence	Specimen	3,828	2013-11- 05	2013-11-05		Public	Sophie Pamerlon
French national collection of Solanum tuberosum Showing 1 to 10 of 41 recovery	Not registered	Occurrence		99	2013-09- 13	2013-09-13		Private	Sophie Pamerlon

Showing 1 to 10 of 41 resources









Create New Resource

You can create a new blank resource, upload an existing resource saved as a zipped Darwin Core archive, or upload an existing IPT resource using its zipped resource configuration folder. Please refer to the User Manual for more specific instructions. A short name is required as an identifier for the resource within this IPT installation. Please use only alphanumeric characters, hyphens, or underscores.

Snortname
Туре
Select a type (optional)
Optional archived resource to load:
Choisissez un fichier Aucun fichier choisi
Create



Manage Resources

Logged in as pamerlon@gbif.fr Account Logout ENGLISH





Overview: test_sp

This is the overview page for the test_sp resource. Please start by uploading and mapping source data to generate and publish a Darwin Core archive. Dont forget to fill in the mandatory metadata. Published resources can be registered with the GBIF Network. Registered resources can be removed, but they cannot be reverted to a private state.

Administration

Source Data Choisissez un fichier Aucun fichier choisi Connect to database Clear	Your source data files for generating a Darwin Core Archive. You can upload delimited text files (csv, tab, and files using any other delimiter) either directly or compressed (zip or gzip). To (re)upload a file, please select the local file then click "Add". Alternatively, you can configure SQL views to databases in your local network. To create a new SQL source, please click "Connect to database" without any file chosen. occurrence_gbif_potato_20130513copie39 KB, 99 rows, 45 columns. 09/01/14 [file]					
Darwin Core Mappings Darwin Core Occurrence Add	Your mapping between the source Darwin Core Occurrence	ce data and Darwin Core terms. 43 terms mapped to occurrence_gbif_potato_20130513copie	Edit			
Metadata Edit	description Keywords	Occurrence				
Published Release Publish Auto publishing (Automotive Communication)		a new EML version, RTF version, and a Darwin Core Archive with mappings and metadata in one zipped archive.	e (DwC-A) will be created. A			
Auto-publishing Select interval Visibility Private Public	This resource is private to manage	gers. To make this resource available to everyone, please m	ake it public.			
Resource Managers	Resources can be managed by Creator	several managers. You can grant other managers permission	n to modify test_sp.			

org.

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Resource Title test_sp

Source Data

Edit your source data format

Source Name

occurrence_gbif_potato_20130513copie

Readable V

Columns 45

File /var/www/private/ipt/ipt_data/resources/test_sp/

sources/occurrence_gbif_potato_20130513copi

e.txt

Size 39 KB

Rows 99

Modified 09/01/14 Source log Download

Analyze Preview

Number of Header Rows

1

Field Quotes

0

Date Format

① YYYY-MM-DD

Save Cancel Delete source file

Field Delimiter

;

Character Encoding

uindows-1252

Home

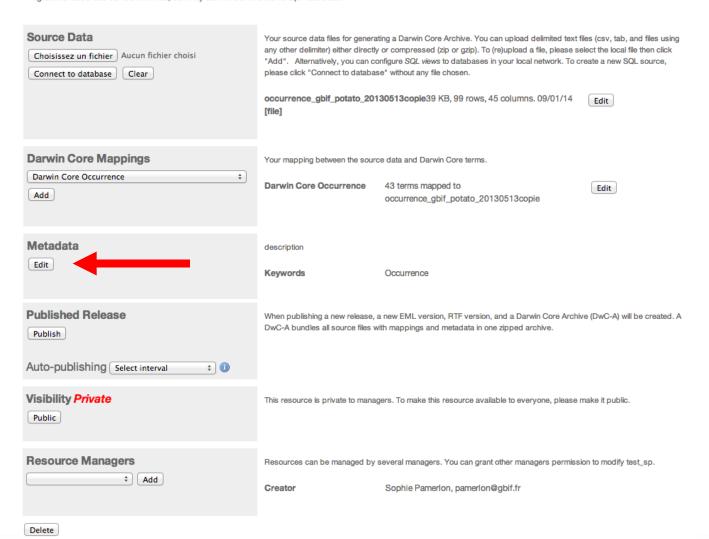
Manage Resources

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Overview: test_sp

This is the overview page for the *test_sp* resource. Please start by uploading and mapping source data to generate and publish a Darwin Core archive. Dont forget to fill in the mandatory metadata. Published resources can be registered with the GBIF Network. Registered resources can be removed, but they cannot be reverted to a private state.





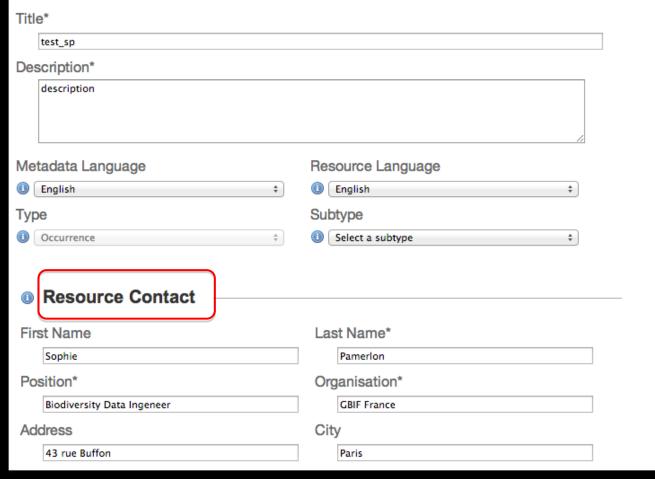


Métadonnées obligatoires

Resource Title test sp

Basic Metadata

The resource title and description are required. The resource's three main contact's must also be described here: Resource contact, resource creator and metadata provider. For each contact you must supply at least a last name, a position or an organisation before you can make the resource public. The person(s) or organisation(s) responsible for the creation of the resource as it appears in the IPT and for effectively publishing the resource should add themselves as an associated party with role 'publisher'.



Section

Basic Metadata

Geographic Coverage

Taxonomic Coverage

Temporal Coverage

Keywords

Associated Parties

Project Data

Sampling Methods

Citations

Collection Data

External links

Additional Metadata





Métadonnées géographiques

Resource Title test sp

Cancel

Save

Geographic Coverage

Drag the markers or fill in the fields to set the geographic bounding box of the area covered by the resource.







Section

Basic Metadata

Geographic Coverage

Taxonomic Coverage

Temporal Coverage

Keywords

Associated Parties

Project Data

Sampling Methods

Citations

Collection Data

External links

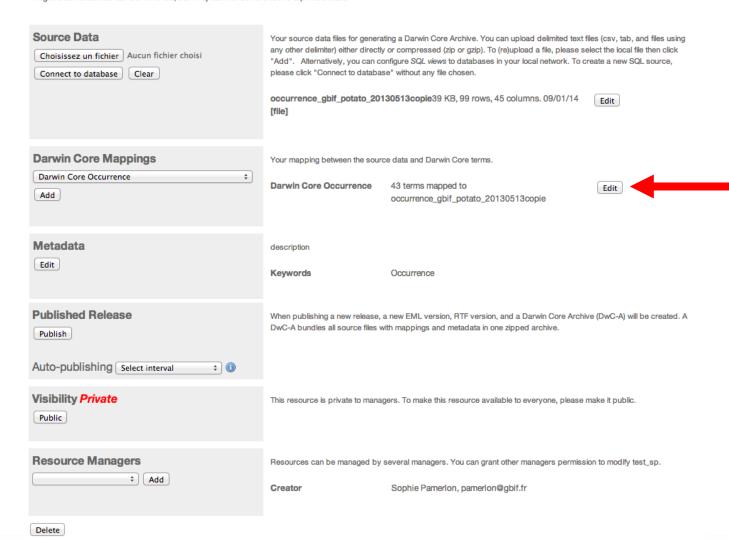
Additional Metadata

Logged in as pamerlon@gbif.fr Account L

Home Manage Resources Administration

Overview: test_sp

This is the overview page for the *test_sp* resource. Please start by uploading and mapping source data to generate and publish a Darwin Core archive. Dont forget to fill in the mandatory metadata. Published resources can be registered with the GBIF Network. Registered resources can be removed, but they cannot be reverted to a private state.



About





Mapping: correspondance des champs

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Resource Title test_sp

Mapping Source Data: occurrence gbif potato 20130513copie

For each property you can assign a dynamic value taken from the specified column of your source data file occurrence_gbif_potato_20130513copie or provide a fixed, static value that is used for all records.

Hide Unmapped Fields

Darwin Core Occurrence

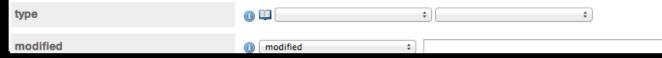
The category of information pertaining to evidence of an occurrence in nature, in a collection, or in a dataset (specimen, observation, etc.).

Link: http://rs.tdwg.org/dwc/terms/index.htm#Occurrence

occurrenceID	occurrenceID The column in your source that holds a unique key for every record/row, also known as the "core id". If you want to map other sources, this identifier is required and will be used to link your source rows together.
Filter After Translation ‡	Source Sample: SOL000387 SOL000091 SOL000482 SOL000562 SOL000586 The filter allows you to include only records that match a criterion set for one of the source data fields.
Save Delete Back	

Record Level Occurrence GeologicalContext Identification Taxon

Record Level







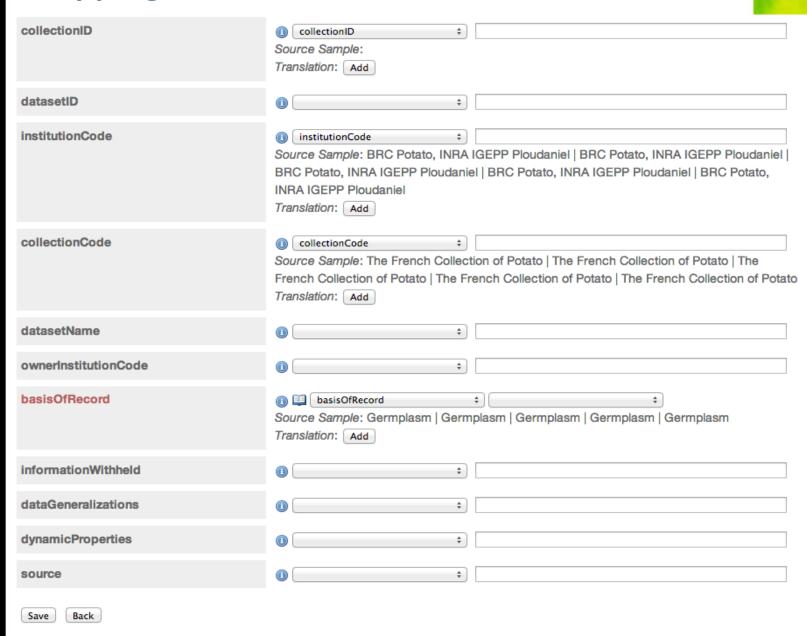
Mapping: suite

Record Level

Occurrence

Event

Location



GeologicalContext

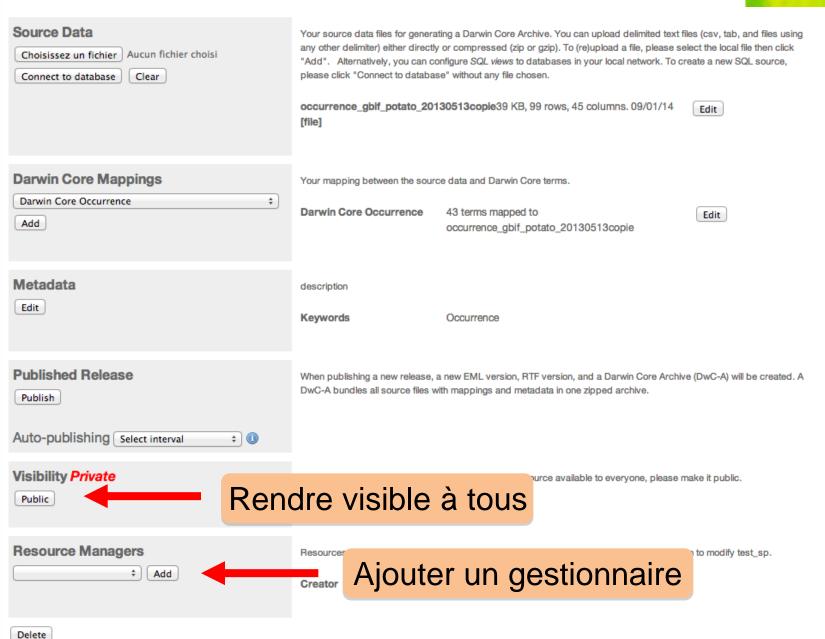
Identification

Taxon





Gestion de la ressource







Choisissez un fichier Aucun fichier choisi Connect to database Clear	Your source data files for generating a Darwin Core Archive. You can upload delimited text files (csv, tab, and files using any other delimiter) either directly or compressed (zip or gzip). To (re)upload a file, please select the local file then click "Add". Alternatively, you can configure SQL views to databases in your local network. To create a new SQL source, please click "Connect to database" without any file chosen. occurrence_gbif_potato_20130513copie39 KB, 99 rows, 45 columns. 09/01/14 [file]		
Darwin Core Mappings Darwin Core Occurrence	Your mapping between the sou	rce data and Darwin Core terms.	
Add	Darwin Core Occurrence	43 terms mapped to Courrence_gbif_potato_20130513copie	
Metadata	description		
Edit	Keywords	Occurrence	
Published Release		TF version, and a Darwin Core Archive (DwC-A) will be created. A	
Publie	r le jeu de d	onnées adata in one zipped archive.	
Auto-publishing Select interval			
Visibility Private Public	This resource is private to mana	agers. To make this resource available to everyone, please make it public.	
Resource Managers	Resources can be managed by	several managers. You can grant other managers permission to modify test_sp.	
\$ Add	Creator	Sophie Pamerlon, pamerlon@gbif.fr	
Delete			

Home

Manage Resources

Administration

About



Publishing version #1 of resource test_sp started

test_sp

Publishing Status

Jan 9, 2014 5:32:58 PM

✓ Publishing version #1 of resource test_sp finished successfully

Continue to resource overview.

Download the complete Publication Log

Log Messages

- Archive generation started for version #1 5:32:39 PM
- Start writing data file for Darwin Core Occurrence 5:32:39 PM
- Data file written for Darwin Core Occurrence with 99 records and 44 columns 5:32:39 PM
- · All data files completed 5:32:39 PM
- EML file added 5:32:39 PM
- meta.xml archive descriptor written 5:32:39 PM
- Archive compressed 5:32:39 PM
- Archive generated successfully! 5:32:39 PM

Publication de la ressource



Published Release

Publish

Auto-publishing | Select interval | ‡

When publishing a new release, a new EML version, RTF version, and a Darwin Core Archive (DwC-A) will be created. A DwC-A bundles all source files with mappings and metadata in one zipped archive.

Last Publication

Version 2 from Jan 9, 2014 See report Publication Log

Darwin Core Archive

download (3 KB) 99 records download view (3 KB)

EML RTF

download (3 KB)

Visibility Public

BRC Forage and turf, II ‡ Register

Private

This resource is public and available to everyone. To make it discoverable, please select the organisation to which the resource is associated and register it with GBIF. To make it accessible only to managers, make it private.

If you want this resource to update an existing registered DiGIR, BioCASE, or TAPIR resource, please ensure the resource is registered against the same owning organization, and that the existing registered resource UUID has been added to the resource's list of alternative identifiers on the <u>Additional Metadata</u> page.



Enregistrement de la ressource (moissonnage par GBIF international)



Visibility Public

Private

BRC Forage and turf, II \$

Register

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Visibility Public

BRC Forage and turf, INRA Lusignan

Agoralogie

Muséum d'Histoire Naturelle de Bourges

Musee Vert, Museum d'Histoire Naturelle du Mans

Muséum d'Histoire Naturelle de Nice

INRA Antilles-Guyane

Musée Zoologique de la Ville de Strasbourg

IFREMER - French Research Institute for Exploitation of the Sea

Museum George Sand et de la Vallee Noire

Musee de la Valle

Université de Strasbourg

Museum Henri-Lecog de Clermont-Ferrand

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rces can be managed by several managers. You can grant other managers permission to modify test_sp.

Creator

Sophie Pamerlon, pamerlon@gbif.fr



Data - News -Community - About -





MNHN - Museum national d'Histoire naturelle

Data publisher. More info at: http://www.mnhn.fr

Information

Data publisher information

FULL TITLE

MNHN - Museum national d'Histoire naturelle

DESCRIPTION

The MNHN is the main French institution for natural history. Both a scientific establishment and a public service, applying itself to research and the dissemination of

knowledge, the Museum has five main foundin of its activities. *Fundamental and applied rese planet *Education and pedagogy *Dissemination

WEBSITE

http://www.mnhn.fr

ENDORSED BY

GBIF France

Published datasets

- Coleoptera specimens of the Muséum national d'Histoire naturelle Occurrence dataset. Updated 19 sept. 2012. 3 682 records (1 288 georeferenced)
- Orthoptera collection at the Muséum national d'Histoire naturelle Occurrence dataset. Updated 19 sept. 2012. 2 348 records
- Fish collections of Museum national d'Histoire naturelle Occurrence dataset. Updated 25 avr. 2012. 130 013 records (58 242 georeferenced)
- Nematoda specimens

Occurrence dataset. Updated 22 nov. 2011. 14 317 records

- Reptile and Amphibian specimens Occurrence dataset. Updated 22 nov. 2011. 150 272 records
- Tunicata specimens Occurrence dataset. Updated 22 nov. 2011. 8 887 records

Coleoptera specimens of the Muséum n...

Occurrence dataset published by MNHN - Museum national d'Histoire naturelle

3 682 Occurrences

Information

Stats

Activity

Summary

FULL TITLE

Coleoptera specimens of the Muséum national d'Histoire naturelle

TECHNICAL CONTACT

1 288 Georeferenced data

VIEW RECORDS

All records | In viewable area

ABOUT

What does this map show?

PUBLISHED BY

MNHN - Museum national d'Histoire naturelle

REGISTRATION DATE

25 avr. 2012

SERVED BY

HTTP Installation

ALTERNATIVE IDENTIFIERS

- GBIF Portal ID 14131

EXTERNAL DATA

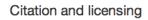
- Darwin Core Archive

METADATA DOCUMENTS

GBIF annotated version (EML)







DEFAULT CITATION

MNHN - Museum national d'Histoire naturelle: Coleoptera specimens of the Muséum national d'Histoire naturelle. Accessed via http://www.gbif.org/dataset/eff7d030-3013-43da-b686-6bafdd228131 on 2014-01-09



Références

IPT v2 User Manual

http://code.google.com/p/gbifprovidertoolkit/wiki/IPT2ManualNotes

Occurrence Data Publishing Tutorial

http://code.google.com/p/gbifprovidertoolkit/wiki/TutorialOccurrenceResource





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