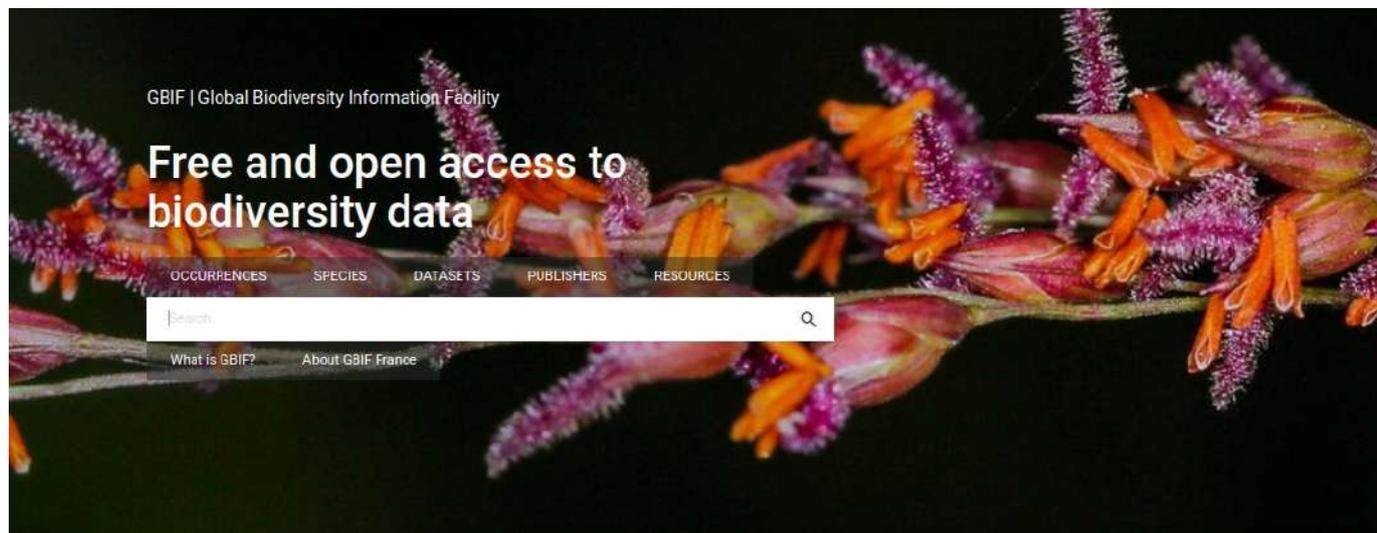


Présentation de l'API GBIF



3,119,694,313

Occurrence records



114,716

Datasets



2,498

Publishing institutions



13,012

Peer-reviewed papers
using data

API GBIF

<https://techdocs.gbif.org/en/openapi>

GBIF API reference

Registry API

Registry API (Principal methods)

Species API

Occurrence API

Maps API

Literature API

Validator API

Vocabulary API

Analytics and Data Trends

Elle permet d'interroger et de publier des données sur le GBIF.org

- Intégrer des données GBIF dans d'autres sites web
- Analyse de données
- Applicable pour la recherche scientifique, surveillance de la Biodiversité, éducation, cartographie des espèces

Documentation en plusieurs sections

Registry

Datasets

A GBIF **dataset** provides occurrence data, checklist data, sampling event data or metadata. Publishing organizations register datasets in this Registry, and the data they reference is retrieved and indexed in GBIF's occurrence store on a regular schedule.

Metadata of datasets follows the GBIF Metadata Profile.

The dataset API provides CRUD and discovery services for datasets. Its most prominent use on the GBIF portal is to drive the [dataset search](#) and [dataset](#) pages.

Please note deletion of datasets is logical, meaning dataset entries remain registered forever and only get a deleted timestamp. On the other hand, deletion of a dataset's contacts, endpoints, identifiers, tags, machine tags, comments, and metadata descriptions is physical, meaning the entries are permanently removed.

GET [/dataset](#) List all datasets 

GET [/dataset/search](#) Search across all datasets. 

GET [/dataset/search/export](#) Export search across all datasets. 

GET [/dataset/doi/{prefix}/{suffix}](#) Retrieve a dataset by DOI 

GET [/dataset/{key}](#) Get details of a single dataset 

Publishing organizations

A **publishing organization** is an institution endorsed by a GBIF Node to publish datasets to GBIF.

The organization API provides CRUD and discovery services for organizations. Its most prominent use on the GBIF portal is to drive the [data publisher search](#).

Please note deletion of organizations is logical, meaning organization entries remain registered forever and only get a deleted timestamp. On the other hand, deletion of an organization's contacts, endpoints, identifiers, tags, machine tags, comments, and metadata descriptions is physical, meaning the entries are permanently removed.

GET [/organization](#) List all publishing organizations 

GET [/organization/{key}](#) Get details of a single publishing organization 

Registry : Pour créer, modifier, mettre à jour et rechercher des informations sur l'ensemble des données.

Registry

GET /dataset/{key} Get details of a single dataset

CHECKLIST DATASET REGISTERED FEBRUARY 5, 2014

TAXREF

Published by UMS Patrimoine Naturel (OFB-CNRS-MNHN), Paris

Gargominy O

DATASET TAXONOMY METRICS DOWNLOAD

RELEASES CITATIONS

TAXREF est le référentiel taxonomique national pour la faune, la flore et la faune de France métropolitaine et d'outre-mer, élaboré et diffusé par le Muséum national d'histoire naturelle (MNHN) dans le cadre de la mise en œuvre du Système d'Information de l'Inventaire National du Patrimoine naturel (SINP). Ce référentiel est unique pour la France ; il a pour but de lister et d'organiser les noms scientifiques de l'ensemble des êtres vivants recensés sur le territoire. Le référentiel TAXREF est...

Publication date: March 10, 2025
Metadata last modified: March 14, 2025
Hosted by: GBIF France
Licence: CC BY 4.0
How to cite: [10.15668/volume](https://doi.org/10.15668/volume)

300,377 Accepted names
408,308 Synonyms
95% Overlap with GBIF Backbone
72% Overlap with Catalogue of Life

Description
Contacts
Data description
GBIF registration
Citation

Description

TAXREF est le référentiel taxonomique national pour la faune, la flore et la faune de France métropolitaine et d'outre-mer, élaboré et diffusé par le Muséum national d'histoire naturelle (MNHN) dans le cadre de la mise en œuvre du Système d'Information de l'Inventaire National du Patrimoine naturel (SINP). Ce référentiel est unique pour la France ; il a pour but de lister et d'organiser les noms scientifiques de l'ensemble des êtres vivants recensés sur le territoire. Le référentiel TAXREF est consultable et téléchargeable sur le site internet de l'Inventaire National du Patrimoine Naturel (INPN) coordonné par le MNHN. <http://inpn.mnhn.fr/programme/referentiel-taxonomique-taxref>

La version en cours est TAXREF v10.0 mise en ligne le 09 janvier 2025.

En téléchargeant TAXREF j'accepte les conditions suivantes : (1) aucune copie du référentiel TAXREF ne sera faite et transmise à un tiers sans que celui-ci n'ait rempli le présent formulaire (2) le référentiel TAXREF, ou une de ses composantes telles que décrites dans le document de citation des sources, sera citée dans toute publication ou présentation qui l'utilisera (3) aucune partie du référentiel TAXREF ne sera mise à disposition en ligne sans autorisation préalable de l'UMS Patrimoine Naturel (4) en cas de découverte d'erreurs il est prié de bien vouloir en informer les éditeurs de façon à constamment accroître la qualité du référentiel

Contacts

Olivier Gargominy Originator • Metadata author • Administrative point of contact	GBIF France Distributor IT support GBIF France 45 rue Buffon Paris 75005 France donnees@gbif.fr
--	--

```
{
  "key": "0661107c-7c29-4281-ada7-d970abb2c666",
  "installationKey": "791e3715-7452-4d09-a906-d621a3853427",
  "publishingOrganizationKey": "1920e620-25d2-110c-8c12-b0e03c0e0b22",
  "doi": "10.15668/volume",
  "version": "4.17",
  "external": false,
  "runConstituents": 0,
  "type": "CHECKLIST",
  "title": "TAXREF",
  "description": "TAXREF est le référentiel taxonomique national pour la faune, la flore et la faune de France métropolitaine et d'outre-mer, élaboré et diffusé par le Muséum national d'histoire naturelle (MNHN) dans le cadre de la mise en œuvre du Système d'Information de l'Inventaire National du Patrimoine naturel (SINP). Ce référentiel est unique pour la France ; il a pour but de lister et d'organiser les noms scientifiques de l'ensemble des êtres vivants recensés sur le territoire. Le référentiel TAXREF est consultable et téléchargeable sur le site internet de l'Inventaire National du Patrimoine Naturel (INPN) coordonné par le MNHN. http://inpn.mnhn.fr/programme/referentiel-taxonomique-taxref La version en cours est TAXREF v10.0 mise en ligne le 09 janvier 2025. En téléchargeant TAXREF, j'accepte les conditions suivantes : (1) aucune copie du référentiel TAXREF ne sera faite et transmise à un tiers sans que celui-ci n'ait rempli le présent formulaire (2) le référentiel TAXREF, ou une de ses composantes telles que décrites dans le document de citation des sources, sera citée dans toute publication ou présentation qui l'utilisera (3) aucune partie du référentiel TAXREF ne sera mise à disposition en ligne sans autorisation préalable de l'UMS Patrimoine Naturel (4) en cas de découverte d'erreurs il est prié de bien vouloir en informer les éditeurs de façon à constamment accroître la qualité du référentiel.",
  "languages": "fr",
  "citation": {
    "text": "Gargominy O (2025). TAXREF, Version 1.17. UMS Patrimoine Naturel (OFB-CNRS-MNHN), Paris. Checklist dataset https://doi.org/10.15668/volume accessed via GBIF.org on 2025-06-24.",
    "citationProvidedBySource": false
  },
  "contacts": []
}
```

```
{
  "key": "0661107c-7c29-4281-ada7-d970abb2c666",
  "type": "ORIGINATOR",
  "primary": true,
  "userId": 1,
  "firstName": "Olivier",
  "lastName": "Gargominy",
  "position": " "
},
{
  "email": "olivier.gargominy@mnhn.fr",
  "phone": [],
  "addresses": [],
  "organizations": "MNHN - UMS 2006 Patrimoine Naturel",
  "address": " "
},
{
  "city": "Paris",
  "country": "FR",
  "postalCode": "75005",
  "createdBy": "creator.gbif.org",
  "modifiedBy": "creator.gbif.org",
  "created": "2015-03-14T12:19:14.312+00:00",
  "modified": "2025-05-14T12:19:14.312+00:00"
}
```

Species

Species



Working with Name Usages.

A name usage is the usage of a scientific name according to one particular checklist including the GBIF Taxonomic Backbone which is called "NUB" in this API.

Backbone name usages have `key == nubKey`. Name usages from other checklists with names that also exist in the backbone will have a `taxonKey` that points to the related usage in the backbone.

GET	/species/{usageKey}/vernacularNames	Name usage vernacular names by id	▼
GET	/species/{usageKey}/verbatim	Verbatim name usage by id	▼
GET	/species/{usageKey}/typespecimens	Name usage type specimens by id	▼
GET	/species/{usageKey}/toc	Name usage descriptions table of contents	▼
GET	/species/{usageKey}/synonyms	Name usage synonyms by id	▼
GET	/species/{usageKey}/speciesProfiles	Name usage species profiles by id	▼
GET	/species/{usageKey}/related	Related name usages by id	▼
GET	/species/{usageKey}/references	Name usage references by id	▼
GET	/species/{usageKey}/parents	Parent name usages by id	▼
GET	/species/{usageKey}/name	Parsed name usage by id	▼
GET	/species/{usageKey}/metrics	Name usage metrics by id	▼
GET	/species/{usageKey}/media	Name usage media by id	▼
GET	/species/{usageKey}/iucnRedListCategory	IUCN Red List Category for a name usage	▼
GET	/species/{usageKey}/identifier	Name usage identifiers by id	▼

Species : Accès aux informations sur les espèces

Species

GET

/species/{usageKey} Name usage by id



SPECIES | ACCEPTED

Canis lupus Linnaeus, 1758

Published in: Syst. Nat., 10th ed. vol.1 p.39

In: GBIF Backbone Taxonomy

Loop In: French Trade restrictions I/II CITES 2025 ⇒ Basionym: *Lupus lupus* Linnaeus, 1758

OVERVIEW 10 TREATMENTS METRICS

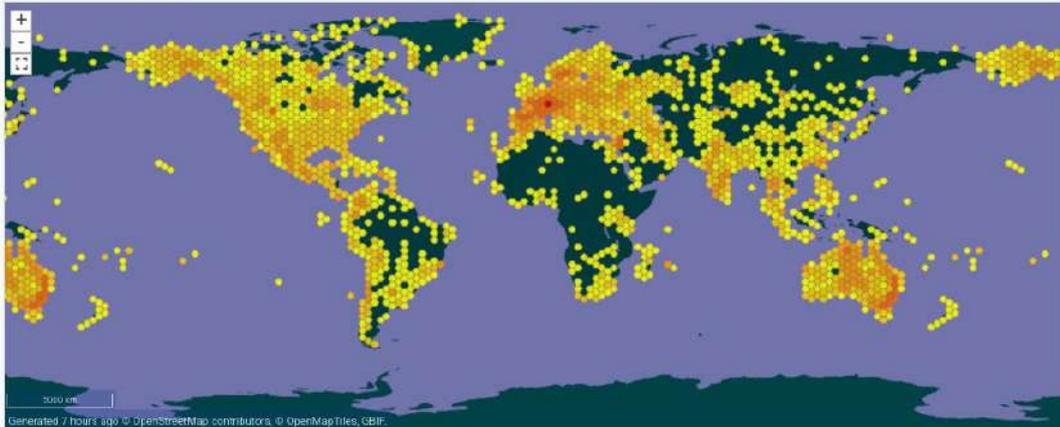
199,679 OCCURRENCES

44 INFRA-SPECIES

23,643 OCCURRENCES WITH IMAGES



82,066 GEOREFERENCED RECORDS



Generated 7 hours ago © OpenStreetMap contributors © OpenMapTiles, GBIF.

Any year 1543 - 2023

EXPLORE

JSON

```
"key": 5219173,
"nubKey": 5219173,
"nameKey": 1946389,
"taxonID": "gbif:5219173",
"sourceTaxonKey": 172725644,
"kingdom": "Animalia",
"phylum": "Chordata",
"order": "Carnivora",
"family": "Canidae",
"genus": "Canis",
"species": "Canis lupus",
"kingdomKey": 1,
"phylumKey": 44,
"classKey": 359,
"orderKey": 732,
"familyKey": 9701,
"genusKey": 5219142,
"speciesKey": 5219173,
"datasetKey": "d7ddbf4-2cf0-4f39-9b2a-bb099caae36c",
"constituentKey": "7ddf754f-d193-4cc9-b351-99906754a03b",
"parentKey": 5219142,
"parent": "Canis",
"basionymKey": 4409357,
"basionym": "Lupus lupus Linnaeus, 1758",
"scientificName": "Canis lupus Linnaeus, 1758",
"canonicalName": "Canis lupus",
"vernacularName": "gray wolf",
"authorship": "Linnaeus, 1758",
"nameType": "SCIENTIFIC",
"rank": "SPECIES",
"origin": "SOURCE",
"taxonomicStatus": "ACCEPTED",
"nomenclaturalStatus": [],
"remarks": "",
"publishedIn": "Syst. Nat., 10th ed. vol.1 p.39",
```

Occurrence

Occurrences

This API provides services related to the retrieval of single occurrence records.

GET	/occurrence/{gbifId}	Occurrence by id	▼
GET	/occurrence/{datasetKey}/{occurrenceId}	Occurrence by dataset key and occurrence id	▼
GET	/occurrence/{gbifId}/fragment	Occurrence fragment by id	▼
GET	/occurrence/{datasetKey}/{occurrenceId}/fragment	Occurrence fragment by dataset key and occurrence id	▼
GET	/occurrence/{gbifId}/verbatim	Verbatim occurrence by id	▼
GET	/occurrence/{datasetKey}/{occurrenceId}/verbatim	Verbatim occurrence by dataset key and occurrence id	▼
GET	/occurrence/{gbifId}/experimental/related	Related occurrences by gbifid	▼
GET	/occurrence/term	Occurrence terms	▼

POST	/occurrence/download/request	Requests the creation of a download file.	▼
GET	/occurrence/download/request/{key}	Retrieve the resulting download file	▼
DELETE	/occurrence/download/request/{key}	Cancel a running download	▼
POST	/occurrence/download/request/validate	**Experimental** Validates the SQL contained in an SQL download request.	▼
GET	/occurrence/download/request/predicate	Converts a plain search query into a download predicate	▼

Occurrence : Accès aux informations sur les occurrences, consultation et téléchargement

Occurrence

GET /occurrence/{gbifId} Occurrence by id

```
{
  "key": "5052388344",
  "datasetKey": "9ea87732-b88e-488d-a02b-3dc6e9b885e0",
  "publishingOrgKey": "46fec380-8e1d-11dd-8679-b8a03c50a862",
  "networkKeys": [
    "379a0de5-f377-4661-9a30-33dd844e7b9a"
  ],
  "installationKey": "e312f477-a9ba-485e-8c1c-700868a0bfb7",
  "hostingOrganizationKey": "46fec380-8e1d-11dd-8679-b8a03c50a862",
  "publishingCountry": "NO",
  "protocol": "EML",
  "lastCrawled": "2025-06-17T11:20:35.205+00:00",
  "lastParsed": "2025-06-17T11:20:44.283+00:00",
  "crawlId": "628",
  "extensions": {},
  "basisOfRecord": "HUMAN_OBSERVATION",
  "individualCount": 1,
  "occurrenceStatus": "PRESENT",
  "taxonKey": 5219173,
  "kingdomKey": 1,
  "phylumKey": 44,
  "classKey": 359,
  "orderKey": 732,
  "familyKey": 9701,
  "genusKey": 5219142,
  "speciesKey": 5219173,
  "acceptedTaxonKey": 5219173,
  "scientificName": "Canis lupus Linnaeus, 1758",
  "acceptedScientificName": "Canis lupus Linnaeus, 1758",
  "kingdom": "Animalia",
  "phylum": "Chordata",
  "order": "Carnivora",
  "family": "Canidae",
  "genus": "Canis",
  "species": "Canis lupus",
  "genericName": "Canis",
  "specificEpithet": "lupus",
  "taxonRank": "SPECIES",
```

OCCURRENCE | 27 JANUARY 2025

Canis lupus Linnaeus, 1758

Loup In French Observed in Norway

Animalia > Chordata > Mammalia > Carnivora > Canidae > Canis

DETAILS

Species: *Canis lupus* Linnaeus, 1758

Location: Europe > Norway

Basis of record: Human observation

Event ID: 0860D6ED-DEA3-42E2-B6A8-B0D701CE8BFC

Dataset: Skandobs

Publisher: Norwegian Institute for Nature Research

Issues: [Content derived from coordinates](#)

[Occurrence status > filter by individual count](#)



Record

Term	Interpreted	Original	Remarks
Basis of record	Human observation	HumanObservation	
Collection code	Skandobs	Skandobs	
Dataset name	Skandobs	Skandobs	
Institution code	NINA	NINA	

Occurrence

Term	Interpreted	Original	Remarks
Associated references	https://www.akand...B6A8-B0D701CE8BFC	https://www.akand...B6A8-B0D701CE8BFC	
Catalogue number	0860D6ED-DEA3-42E2-B6A8-B0D701CE8BFC	0860D6ED-DEA3-42E2-B6A8-B0D701CE8BFC	
Individual count	1	1	
Occurrence ID	0860D6ED-DEA3-42E2-B6A8-B0D701CE8BFC	0860D6ED-DEA3-42E2-B6A8-B0D701CE8BFC	

Occurrence - download

POST /occurrence/download/request Requests the creation of a download file.

GET /occurrence/download/request/{key} Retrieve the resulting download file.

POST https://api.gbif.org/v1/occurrence/download/request

Params Authorization Headers (10) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "creator": "aainsa123",
3   "sendNotification": true,
4   "notification_addresses": [
5     "alice.ainsa@mnhn.fr"
6   ],
7   "format": "DWCA",
8   "description": "Recherche occurrences en France en 2017",
9   "machineDescription": {
10    "key": "value"
11  },
12  "predicate": {
13    "type": "and",
14    "predicates": [
15      {
16        "type": "equals",
17        "key": "COUNTRY",
18        "value": "FR"
19      },
20      {
21        "type": "equals",
22        "key": "YEAR",
23        "value": "2017"
24      }
25    ]
26  },
27  "verbatimExtensions": [
28    "http://rs.tdwg.org/ac/terms/Multimedia"
29  ]
30 }
```

Body Cookies Headers (14) Test Results

Pretty Raw Preview Visualize JSON

1 0067207-250525065834625

GET https://api.gbif.org/v1/occurrence/download/0067207-250525065834625

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

Query Params

KEY	VALUE
-----	-------

Body Cookies Headers (15) Test Results

Pretty Raw Preview Visualize JSON

```
13 {
14   "type": "equals",
15   "key": "YEAR",
16   "value": "2017",
17   "matchCase": false
18 }
19 ]
20 ]
21 {
22   "creator": "aainsa123",
23   "notification_addresses": [
24     "alice.ainsa@mnhn.fr"
25   ],
26   "sendNotification": true,
27   "format": "DWCA",
28   "type": "OCCURRENCE",
29   "description": "Recherche occurrences en France en 2017",
30   "machineDescription": {
31     "key": "value"
32   },
33   "verbatimExtensions": [
34     "http://rs.tdwg.org/ac/terms/Multimedia"
35   ]
36 }
37 {
38   "created": "2025-06-24T14:13:52.900+00:00",
39   "modified": "2025-06-24T14:14:06.718+00:00",
40   "eraseAfter": "2025-12-24T14:13:52.799+00:00",
41   "status": "RUNNING",
42   "downloadLink": "https://api.gbif.org/v1/occurrence/download/request/0067207-250525065834625.zip",
43   "size": 0,
44   "totalRecords": 9119499,
45   "numberDatasets": 0,
46   "source": "PostmanRuntime/7.29.4"
```

Maps

Occurrence maps

This API provides pre-calculated and ad-hoc occurrence map tiles.

- GET `/map/occurrence/density/{z}/{x}/{y}{format}` Pre-calculated density tile
- GET `/map/occurrence/density/capabilities.json` Summary of a density tile map query
- GET `/map/occurrence/adhoc/{z}/{x}/{y}{format}` Ad-hoc search tile

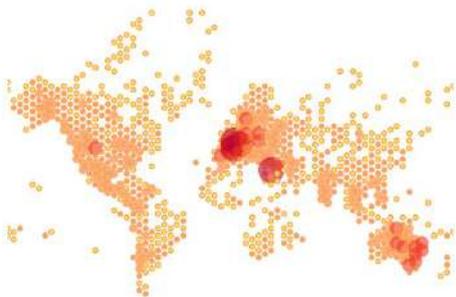
GET `https://api.gbif.org/v2/map/occurrence/density/0/0/0@1x.png?taxonKey=5219173&bin=hex&hexPerTile=70&style=scaled.circles`

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE
<input checked="" type="checkbox"/> taxonKey	5219173
<input checked="" type="checkbox"/> bin	hex
<input checked="" type="checkbox"/> hexPerTile	70
<input type="checkbox"/> srs	EPSG:3144326
<input checked="" type="checkbox"/> style	scaled.circles
Key	Value

Body Cookies Headers (11) Test Results



Maps : Services pour afficher des cartes contenant les informations contenues dans le GBIF

Map styling

Vector tiles must be styled by the client.

Raster styles are predefined, and chosen with the `style` parameter. All available styles are shown below. Note the styles labelled "approximate" are not intended for precise analysis.



Literature

Literature

Literature indexed by GBIF

GET `/literature/{uuid}` Literature item by id

GET `/literature/search` Search literature

GET `/literature/export` Export literature search results

Literature : Accès à des articles et autres documents indexés par le GBIF, citant des jeux de données et téléchargement issus du GBIF

Validator

validation-resource		^
PUT	/validation/{key}/cancel	∨
GET	/validation/{key}	∨
PUT	/validation/{key}	∨
DELETE	/validation/{key}	∨
POST	/validation/url	∨
GET	/validation	∨
POST	/validation	∨
GET	/validation/{key}/eml	∨
GET	/validation/running	∨

Validator : Permet d'exécuter des vérifications sur la structure et la qualité des données avant sa publication au GBIF

Vocabulary

Vocabularies

A vocabulary is the entity that holds data about a controlled vocabulary and its concepts.

The vocabulary API provides CRUD and discovery services for vocabularies. It also allows to deprecate vocabularies that are being replaced by other vocabularies.

GET	/vocabularies	List all vocabularies	▼
POST	/vocabularies	Create a new vocabulary	▼
GET	/vocabularies/{name}	Get details of a single vocabulary	▼
PUT	/vocabularies/{name}	Update an existing vocabulary	▼
GET	/vocabularies/suggest	Suggest vocabularies.	▼
PUT	/vocabularies/{name}/deprecate	Deprecate an existing vocabulary	▼
DELETE	/vocabularies/{name}/deprecate	Restores a deprecated vocabulary	▼
GET	/vocabularies/{name}/export	Exports a vocabulary	▼
GET	/vocabularies/{name}/releases	List all the releases of a vocabulary	▼
GET	/vocabularies/{name}/releases/{version}	Get details of a single vocabulary release	▼
GET	/vocabularies/{name}/releases/{version}/export	Get the exported release	▼
GET	/vocabularies/{name}/definition	List all the definitions of the vocabulary	▼
POST	/vocabularies/{name}/definition	Adds a definition to a vocabulary	▼
GET	/vocabularies/{name}/definition/{key}	Get the definition of a vocabulary	▼
PUT	/vocabularies/{name}/definition/{key}	Updates a definition	▼

Vocabulary : Utilisé lors de l'interprétation des données afin de standardiser les valeurs pour certains champs spécifiques

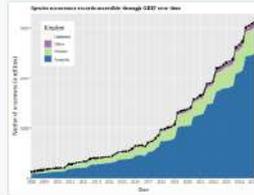
Analytics and Data Trends

Number of occurrence records

These charts illustrate the change in availability of the species occurrence records over time.

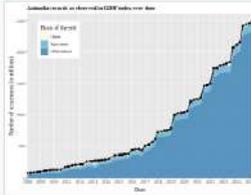
Records by kingdom

The number of available records categorized by the basis of record. "Unknown" includes records with taxonomic information that cannot be linked to available taxonomic checklists.



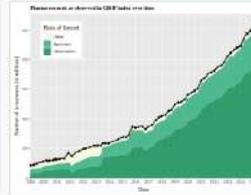
Records for Animalia

The number of animal records categorized by the basis of record. "Unknown" includes records without defined basis of record or with an unrecognized value for basis of record.



Records for Plantae

The number of plant records categorized by the basis of record. "Unknown" includes records without defined basis of record or with an unrecognized value for basis of record.



Data Trends : Suivi des tendances des données chaque trimestre sur la page Global data trends

Species counts

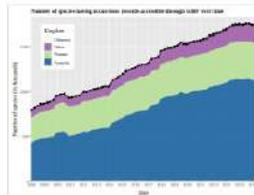
These charts illustrate the change in the number of species for which occurrence records are available.

Definition

Species counts are based on the number of binomial scientific names for which GBIF has received data records, organized as far as possible using synonyms recorded in key databases such as the Catalogue of Life. Since many names are not yet included in these databases, some proportion of these names will be unrecognized synonyms and do not represent valid species. Therefore these counts can be used as an indication of richness only, and do not represent true species counts. All data have been processed using the same, most recent, version of the common GBIF backbone taxonomy, and comparisons over time are therefore realistic.

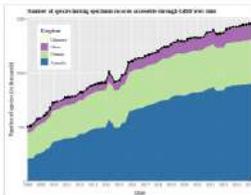
Species count by kingdom

The number of species with available occurrence records, categorized by kingdom.



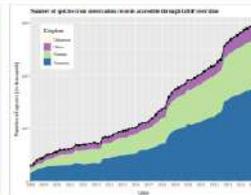
Species count for specimen records

The number of species associated with specimen records.



Species count for observation records

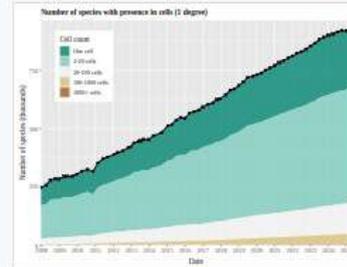
The number of species associated with observation records.



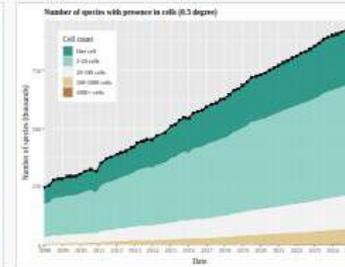
Geographic coverage for recorded species

These charts illustrate change in the number of species for which occurrence records are available and the geographic coverage of records for each species at different scales. In each chart, species are classified by the number of cells at a given scale for which occurrence records for the species are available. More cells indicates greater data coverage for the species. Naturally, some species are only known from a small area, so low cell counts do not necessarily indicate lack of relevant data.

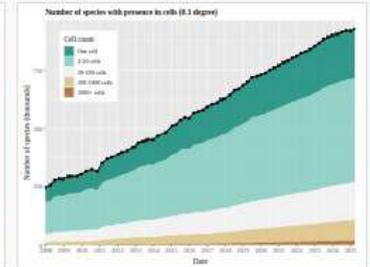
1.0 degree



0.5 degree



0.1 degree



Pour résumer

- Permet d'explorer les données visibles sur le portail du GBIF
- Mêmes informations sur l'API que sur le portail
- Plus facile pour utiliser, filtrer et automatiser les traitements de données
- Utile pour valider, croiser ou intégrer des données dans d'autres outils