



Formation qualité, utilisation et publication des données - Paris,
24-25 mars 2014

La découverte et l'extraction des données dans le réseau du GBIF

gbif@gbif.fr

[Twitter : @gbiffrance](https://twitter.com/gbiffrance)

Le portail du GBIF international



Recherche par pays

GBIF

Global Biodiversity Information Facility

Free and open access to biodiversity data

417,944,819 | 1,426,888 | 11,974 | 582
OCCURRENCES | SPECIES | DATASETS | DATA PUBLISHERS

Login or Create a new account

Data ▾ News ▾ Community ▾ About ▾

- Explore occurrences
- Explore datasets
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Publishing data
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Sharing biodiversity data for re-use

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Collaborating as a global community

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Search news items and information pages... Search 🔍

www.gbif.org/country

Recherche par pays

France

A GBIF Voting Country Participant from Europe

Names of countries, territories and islands are based on the [ISO 3166-1](#) standard.

Summary

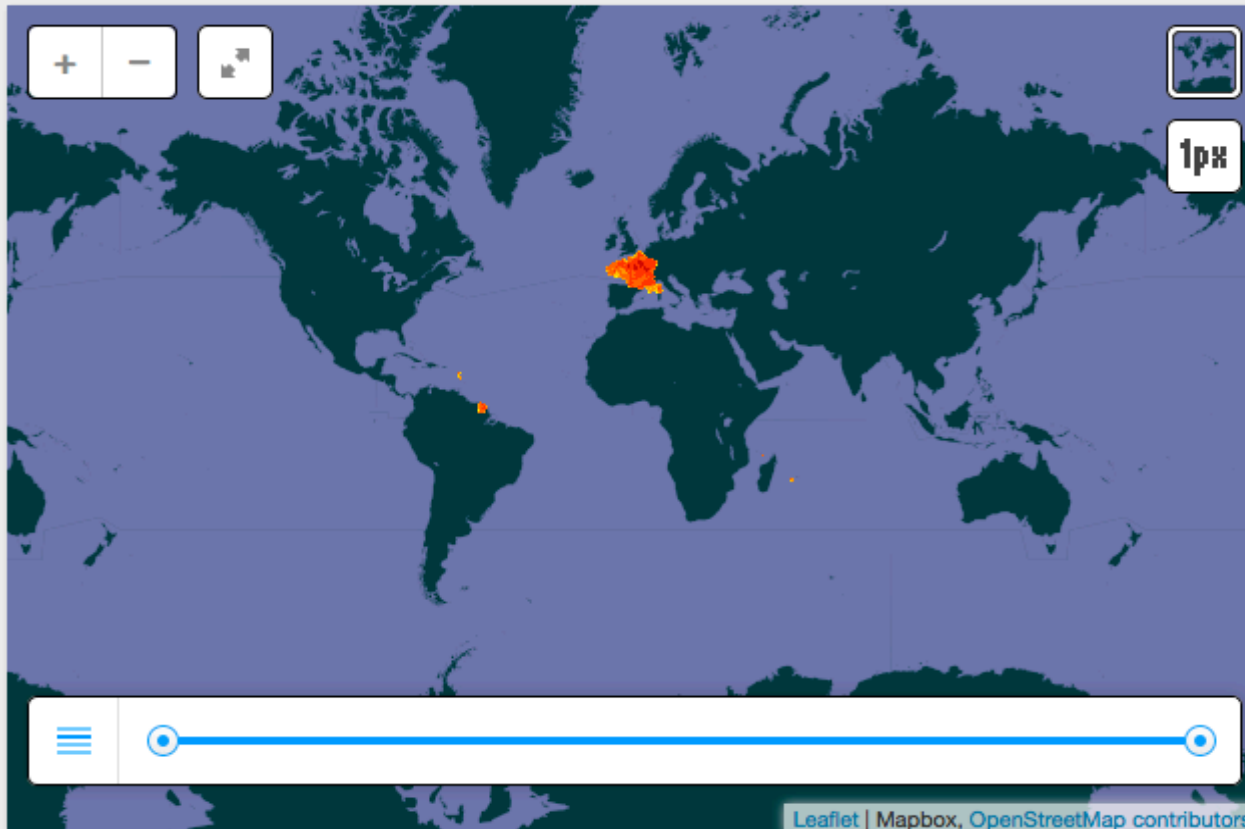
Data About

Data Publishing

Participation

News

Publications



Data about France

- [920 occurrence datasets](#) with [11 106 268 records](#).
- No checklists.
- No metadata-only datasets relevant to France.
- [37 countries](#) contribute data about France.

Recherche par pays

France

A GBIF Voting Country Participant from Europe

Names of countries, territories and islands are based on the ISO 3166-1 standard.

Summary

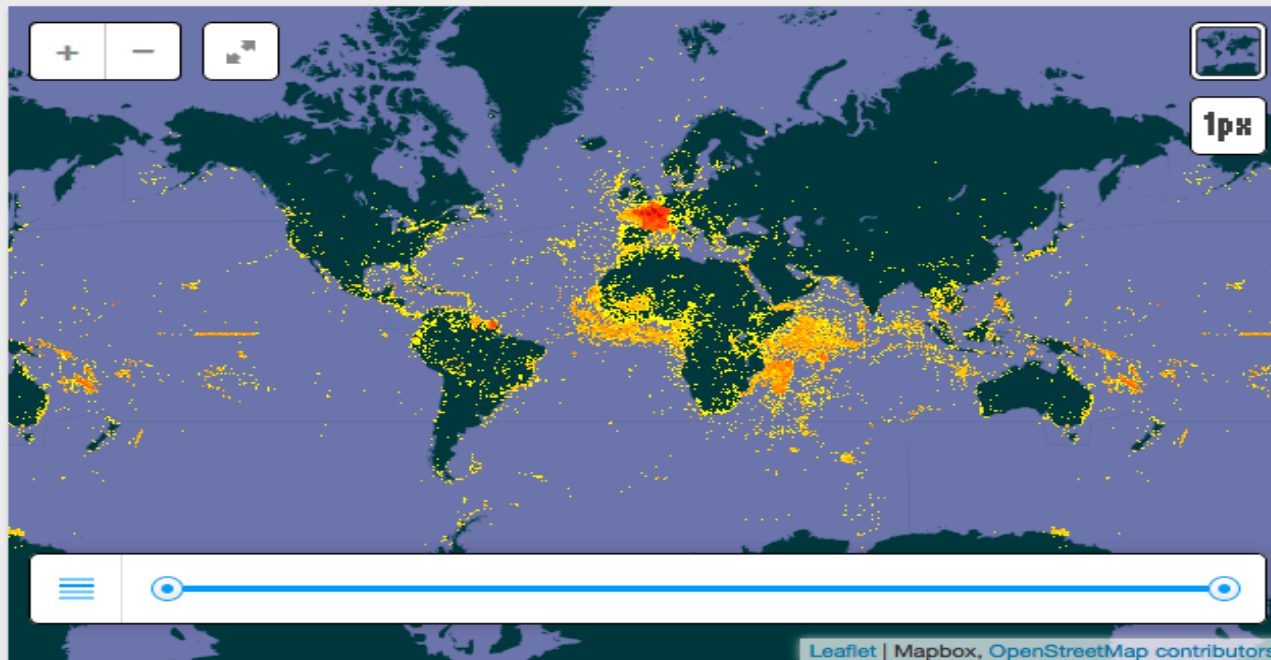
Data About

Data Publishing

Participation

News

Publications



Data from France

- 111 occurrence datasets with 16 495 001 records.
- 1 checklists with 0 records.
- 1 metadata-only datasets.
- France publishes data covering 246 countries, territories and islands.

Latest datasets published

- [Herbier du Muséum Henri-Lecoq de Clermont-Ferrand - Rosacées](#)
Occurrence dataset. Updated 4 mars 2014. 1 429 records Published by Museum Henri-Lecoq de Clermont-Ferrand
- [The French Collection of Medicago truncatula](#)

News

Recherche par pays

France

A GBIF Voting Country Participant from Europe

Names of countries, territories and islands are based on the **ISO 3166-1** standard.

[Summary](#)[Data About](#)[Data Publishing](#)[Participation](#)[News](#)[Publications](#)

GBIF participant information

MEMBER STATUS

Voting Participant

GBIF PARTICIPANT SINCE

2001

GBIF REGION

Europe

HEAD OF DELEGATION

[Eric Chenin](#)

NODE MANAGER

[Anne-Sophie Archambeau](#)

Node

NODE NAME

GBIF France

ADDRESS

Museum National d'Histoire
Naturelle

57, rue Cuvier
45005 Paris
France

WEBSITE

<http://www.gbif.fr>

Contacts

[show all](#)

HEAD OF DELEGATION

[Eric Chenin](#)

NODE STAFF

[Eric Chenin](#)

NODE MANAGER

[Anne-Sophie Archambeau](#)

NODE STAFF

[Marie-Elise Lecoq](#)

Recherche par pays

France

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[Summary](#)[Data About](#)[Data Publishing](#)[Participation](#)[News](#)[Publications](#)

News items tagged France

EVENT IMS

CESAB Workshop “Managing Biodiversity Data for Scientific Synthesis”

Synthesis and analysis of scientific data has proven an invaluable tool for the emergence of new theory, paradigms, knowledge and research needs within the broad scientific field of biodiversity. Howe...

1 day 3 hours ago

EVENT IMS

GBIF-France Day / Journée du GBIF France

An event organized by GBIF France to present the features of the new GBIF portal, including improved maps and visualization, increased speed of data indexing, removal of download limits and greater vi...

1 day 3 hours ago

EVENT IMS

2014 ALTER-Net summer school: ‘An Interdisciplinary Perspective on Biodiversity and Ecosystem Services’

Open to young graduate and post-graduate scientists from both within and outside the network partners, the ALTER-Net Summer School provides an innovative atmosphere for thinking about and resolving th...

3 days 4 hours ago

EVENT IMS

News from node

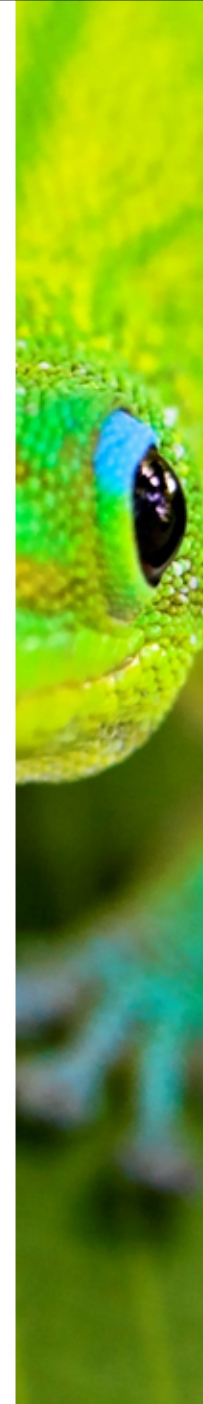
- [Recrutement au Secrétariat du GBIF \(Copenhague\)](#)
10 days ago
- [Formation BioVeL – GBIF France les 24 et 25 mars 2014](#)
23 days ago
- [Mentoring GBIF France-Espagne-Portugal](#)
2 months ago
- [Présentations de la journée GBIF France en ligne](#)
2 months ago
- [Meilleurs voeux du GBIF France !](#)
2 months ago
- [Mise en ligne du Global Biodiversity Informatics Outlook](#)
4 months ago
- [Événement GBIF du 09 décembre : l'inscription est ouverte](#)
5 months ago
- [Événement GBIF France le 09 décembre 2013](#)
5 months ago

Recherche par pays : travaux pratiques

Quel est le « Head of Delegation » de la Norvège ?

Quel est la dernière actualité de la France ?

Afficher le tableau d'occurrence des données du Népal



Recherche par taxon

GBIF

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Navigation: [Data](#) [News](#) [Community](#) [About](#)

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Search news items and information pages... Search

www.gbif.org/species

Recherche par taxon



GBIF.ORG

Free and open access to biodiversity data

Data ▾

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Community ▾

About ▾

Search 1 454 695 species

of the [GBIF Backbone Taxonomy](#)

Search 🔍

[Mammals](#) · [Birds](#) · [Insects](#) · [Reptiles](#) · [Fishes](#) · [Butterflies](#) · [Fungi](#) · [Flowering Plants](#)


1 454 695

Confirmed species in the
[Catalogue of Life](#)

1 042 419

Names under review ⓘ

Recherche par taxon

**GBIF.ORG**
Free and open access to biodiversity data

Data ▾ News ▾ Community ▾ About ▾

Search species

35 results for "Pica pica"

ACCEPTED SPECIES

[Pica pica \(Linnaeus, 1758\)](#)
Animalia > Chordata > Aves > Passeriformes > Corvidae > Pica
Die Elster (*Pica pica*) ist eine Vogelart aus der Familie der Rabenvögel. Sie besiedelt weit...

ACCEPTED SUBSPECIES

[Pica pica pica \(Linnaeus, 1758\)](#)
Animalia > Chordata > Aves > Passeriformes > Corvidae > Pica > Pica pica

ACCEPTED SUBSPECIES

[Pica pica subsp. bottanensis](#)
Animalia > Chordata > Aves > Passeriformes > Corvidae > Pica > Pica pica

ACCEPTED SUBSPECIES

[Pica pica subsp. asirensis](#)
Animalia > Chordata > Aves > Passeriformes > Corvidae > Pica > Pica pica

ACCEPTED SUBSPECIES

Refine your search

reset

DATASET

☒ GBIF Backbone Taxonomy (35)
☐ English Wikipedia Species ... (18)
☐ Encyclopedia of Life (16)
☐ The Clements Checklist (13)
☐ Wikipedia Species Pages - ... (11)
☐ NCBI Taxonomy (10)
[more >](#)

HIGHER TAXON

☐ Animalia (34)
☐ Chordata (31)
☐ Aves (29)
☐ Passeriformes (28)
☐ Corvidae (25)
☐ Pica (18)
[more >](#)

Recherche par taxon

Pica pica (Linnaeus, 1758)

Species in GBIF Backbone Taxonomy

Animalia › Chordata › Aves › Passeriformes › Corvidae › Pica

669 597

Occurrences

12

Infraspecies

[View occurrences](#)

Information

Overview

FULL NAME

Pica pica (Linnaeus, 1758)

COMMON NAMES

- Pie bavarde fra ⓘ
- Black billed Magpie eng ⓘ
- Common Magpie eng ⓘ

[more](#) ›

TAXONOMIC STATUS

Accepted species

ACCORDING TO

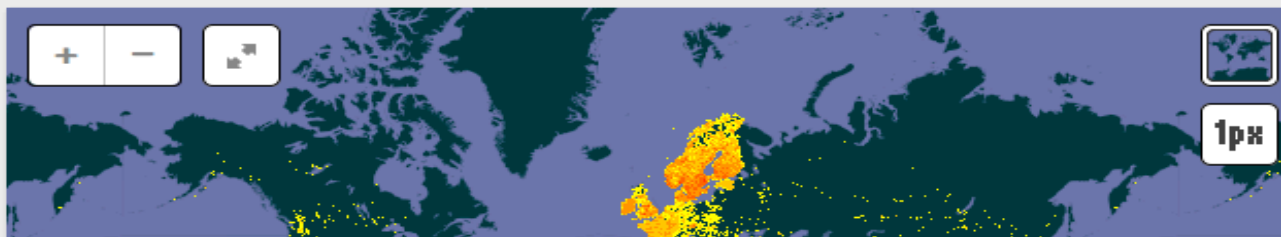
The Catalogue of Life, 3rd January 2011



EXTERNAL LINKS

- [Encyclopedia of Life](#)
- [Catalogue of Life](#)
- [Biodiversity Heritage Library](#)

GBIF ID [5229490](#)



Georeferenced data

[VIEW RECORDS](#)

All 620 459 | In viewable area

Recherche par jeu de données : Diveboard

www.diveboard.com



[Photo de Doug Anderson](#)

Diveboard est une **plate-forme de science participative sur la plongée**, où les plongeurs peuvent numériser ou enregistrer leurs plongées.

Cette base de données contient toutes les observations faites par les Diveboarders à travers le monde (principalement des poissons)

Les données sont connectées au portail **GBIF : 18 178 occurrences** actuellement et reliées à Encyclopedia of Life.



Recherche par taxons

1. Rechercher le genre « *Pterois* » via le moteur de recherche par taxons
2. Cliquer sur le premier résultat (« Accepted Genus, *Pterois* Oken 1817 »)
3. Jouer avec le curseur temporel sous la carte pour voir à quelle période le genre *Pterois* apparaît dans la région des Caraïbes
4. Zoomer sur la carte au niveau des Caraïbe puis cliquer pour afficher les enregistrement sur la zone géographique choisie (à droite de la carte).
5. Cliquer sur n'importe quel enregistrement individuel et vous aurez les informations exacte de l'observation (heure, profondeur, nom du plongeur ...)



Recherche par jeu de données

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Navigation: Data, News, Community, About

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Search news items and information pages... Search

www.gbif.org/dataset

Recherche par jeu de données

Search 14 760 datasets

or view the [publishing institutions](#)

Search for datasets by title, description, publ

Search Q

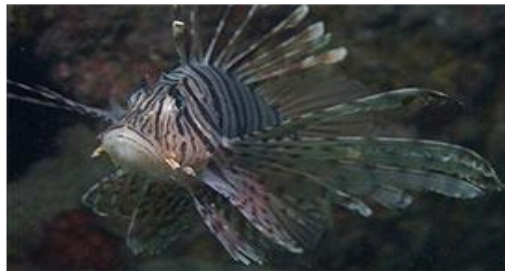
11 904

occurrences datasets

2 840

checklists

Featured datasets



Diveboard - Scuba diving citizen science observations

Species observations from scuba divers around the world registered on the



TESRI-FB-EnjoyMoths

A dataset from a project by the Taiwan Endemic Species Research Institute enabling Facebook users to upload



Anyimals+plants - Citizen Science Data

A project based in Germany enabling smartphone users to check out which

Recherche par jeu de données

Search datasets

SPN



40 results for "SPN"

OCCURRENCE DATASET

Inventaire National du Patrimoine Naturel (I205) : CBN Alpin de Gap

794 records published by [SPN](#) - Service du Patrimoine naturel, Muséum national d'Histoire naturelle, Paris

OCCURRENCE DATASET

Inventaire National du Patrimoine Naturel : Mammifères de France

130 059 records published by [SPN](#) - Service du Patrimoine naturel, Muséum national d'Histoire naturelle, Paris

OCCURRENCE DATASET

Inventaire National du Patrimoine Naturel : Loup en France

27 988 records published by [SPN](#) - Service du Patrimoine naturel, Muséum national d'Histoire naturelle, Paris

OCCURRENCE DATASET

Inventaire National du Patrimoine Naturel : Crustacés Décapodes de ...

9 216 records published by [SPN](#) - Service du Patrimoine naturel, Muséum national d'Histoire naturelle, Paris

Refine your search

reset

Recherche par jeu de données

Search 14 760 datasets

or view the [publishing institutions](#)

Search for datasets by title, description, publ

Search Q

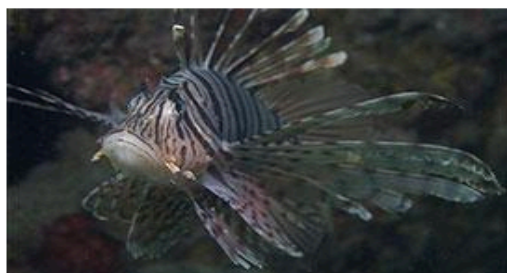
11 904

occurrences datasets

2 840

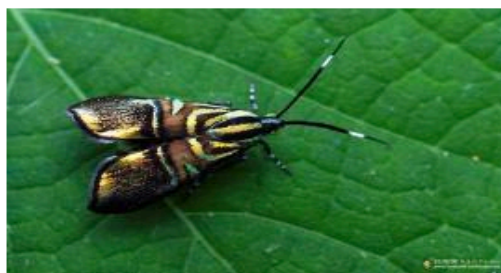
checklists

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AnyMals+plants - Citizen Science Data

A project based in Germany enabling smartphone users to check out which

Recherche par jeu de données

Search data publishers

Search by publisher title, country, contact email etc.



Results are ordered by the date of publisher registration, starting with the most recent.
Newly registered institutions yet to publish data, or awaiting endorsement, may be included in the results.



725 results

BioGIS - Israel Biodiversity Webste

A data publisher from Israel

Endorsed by [Israel](#)

Programa BIOTA/FAPESP - The Virtual Institute of Biodiversity

A data publisher from Campinas, Brazil

Endorsed by [GBIF Brazil](#)

Ájtte Museum

A data publisher from Sweden with 1 published datasets

Endorsed by [GBIF Sweden](#)



Recherche par occurrences

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Explore occurrences
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Sharing biodiversity data for re-use

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Enhancing capacity

Search news items and information pages... [Search](#) 🔍

www.gbif.org/occurrence

Recherche par occurrences

Explore 439 107 040 occurrences

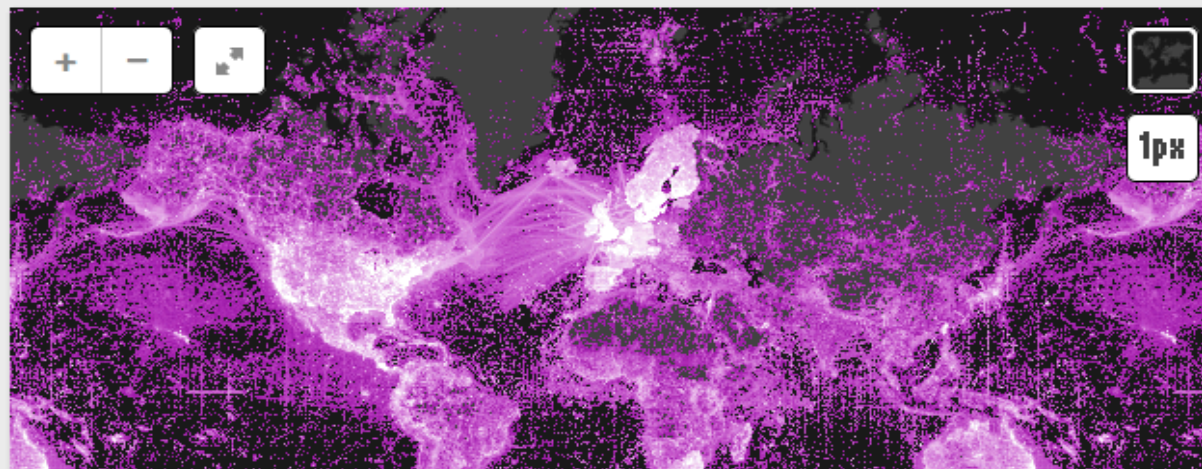
Occurrence records document evidence of a named organism in nature. Through this portal, you can [search](#), [view](#) and [download](#) records that are published through the GBIF network.

439 107 040

occurrences records

372 883 495

georeferenced records



Georeferenced data

VIEW RECORDS

[All records](#) | [In viewable area](#)

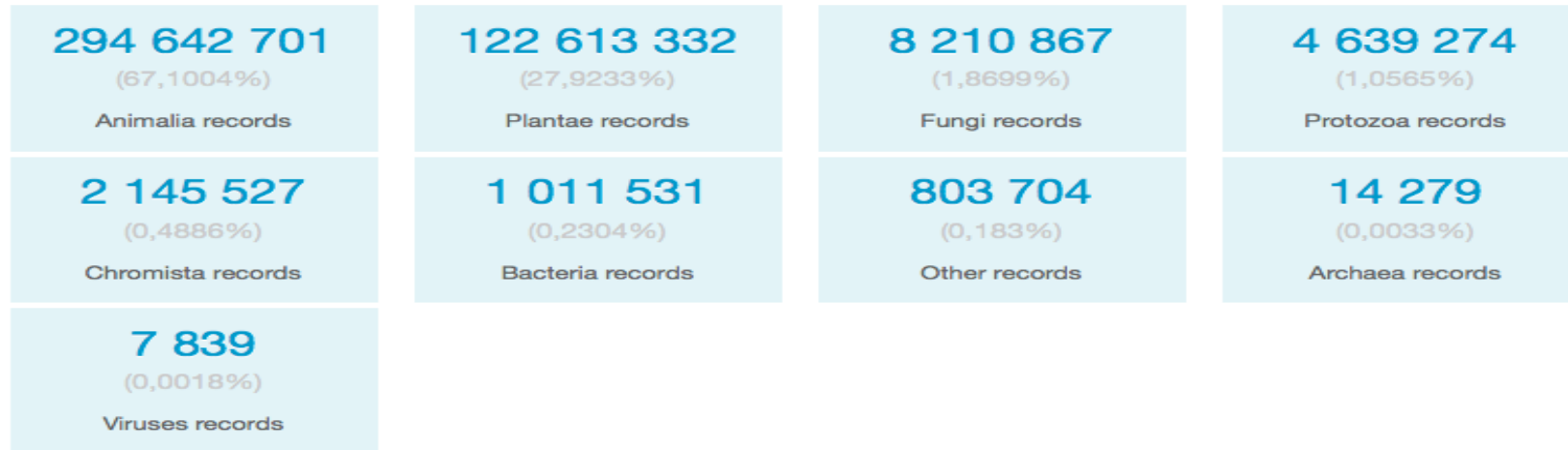
ABOUT

This map shows the density of all 372 883 495 georeferenced occurrence records published through the GBIF network.

Recherche par occurrences

Taxonomic characteristics

The following provides a summary of number of records per kingdom. Further filters, such as a location or temporal filter, may be applied when [exploring the data](#).



Record type characteristics

Records may originate from a variety of means, such as a scientist collecting a specimen or an individual recording the sighting of an organism. This is classified by the [Darwin Core basisOfRecord](#) standard.



Recherche par occurrences

Search occurrences

Use the filters to customize search results

439 101 838

Occurrences

Download

439 101 838 results

Configure

Add a filter

	LOCATION	BASIS OF RECORD	DATE
781086680 - Cat. 1626 Gasterosteus aculeatus Linnaeus, 1758 Published in UAM Fish Collection (Arctos)	United States 55,27/-162,88	Specimen	6 / 9999
781080989 - Cat. 1007 Hippoglossoides robustus Gill & Townsend, 1897 Published in UAM Fish Collection (Arctos)	N/A	Specimen	8 / 9999
859296605 - Cat. M-137457 Reithrodontomys megalotis (Baird, 1858) Published in AMNH Mammal Collections	United States N/A Altitude: 2 316m	Specimen	8 / 9840
859296611 - Cat. M-137458 Reithrodontomys megalotis (Baird, 1858) Published in AMNH Mammal Collections	United States N/A Altitude: 2 316m	Specimen	8 / 9840
859475016 - Cat. M-81593 Dasymys nudipes (Peters, 1870) Published in AMNH Mammal Collections	Angola N/A Altitude: 1 503m	Specimen	8 / 9832

Recherche par occurrences

Search occurrences

Use the filters to customize search results

439 101 838

Occurrences

Download

439 101 838 results

 Configure  Add a filter

	LOCATION	BASIS OF RECORD	
781086680 - Cat. 1626 Gasterosteus aculeatus Linnaeus, 1758 Published in UAM Fish Collection (Arctos)	United States 55,27/-162,88	Specimen	Scientific name
781080989 - Cat. 1007 Hippoglossoides robustus Gill & Townsend, 1897 Published in UAM Fish Collection (Arctos)	N/A	Specimen	Location
859296605 - Cat. M-137457 Reithrodontomys megalotis (Baird, 1858) Published in AMNH Mammal Collections	United States N/A Altitude: 2 316m	Specimen	Country
859296611 - Cat. M-137458 Reithrodontomys megalotis (Baird, 1858) Published in AMNH Mammal Collections	United States N/A Altitude: 2 316m	Specimen	Publishing country
859475016 - Cat. M-81593 Dasymys nudipes (Peters, 1870) Published in AMNH Mammal Collections	Angola N/A Altitude: 1 503m	Specimen	Collector

Basis of record
Dataset
Collection date
Date last modified
Year
Month
Catalogue number
Institution code
Collection code
Altitude
Depth

67 9832

Recherche par occurrences

Search occurrences

Use the filters to customize search results

Tout télécharger

25 Occurrences
Download

25 results

Configure

Add a filter

Occurrence Year

Is 2008 ✕

Country

France ✕

Scientific Name

Pica pica (Linnaeus, 1758) ✕

Récapitulatif des filtres

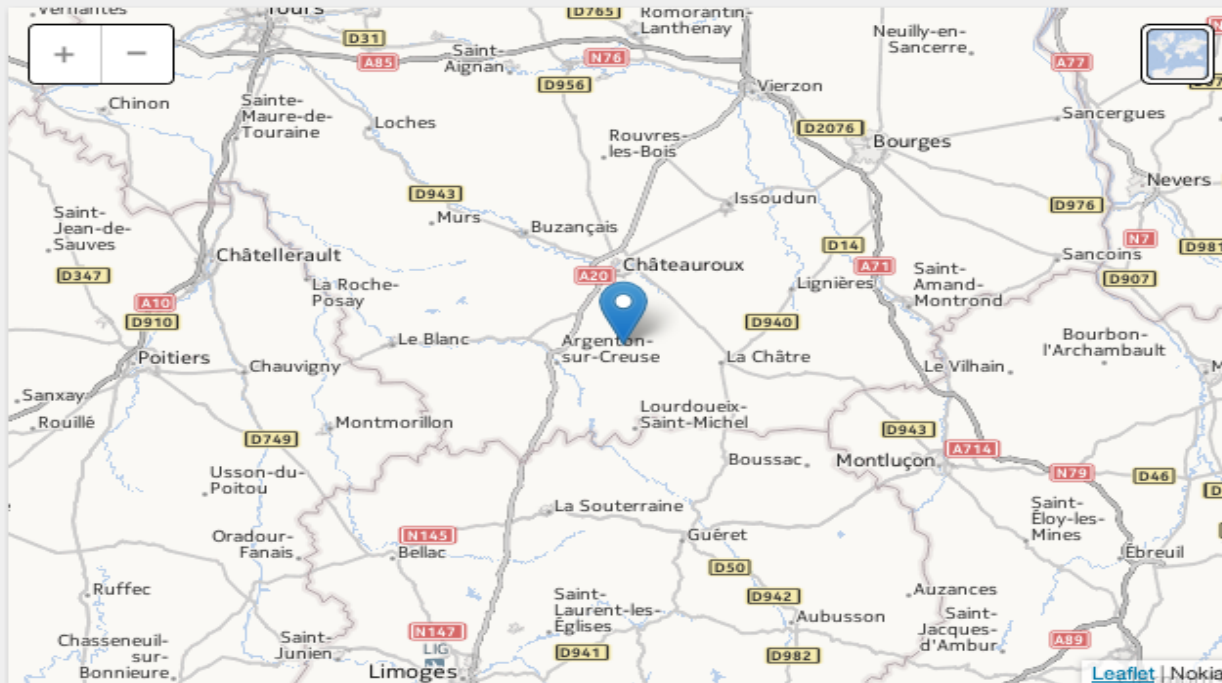
	LOCATION	BASIS OF RECORD	DATE
595879310 · Cat. OBS98635563 Pica pica (Linnaeus, 1758) Published in eBird	France 46,62/1,70	Observation	1 / 2008
595870644 · Cat. OBS99192004 Pica pica (Linnaeus, 1758) Published in eBird	France 46,62/1,70	Observation	1 / 2008
595873679 · Cat. OBS99192039 Pica pica (Linnaeus, 1758) Published in eBird	France 46,62/1,70	Observation	1 / 2008

Recherche par occurrences

Occurrence ID: 595879310

Observation of *Pica pica* (Linnaeus, 1758) from eBird dataset.

Information



Location

LOCALITY
, France
1,701, 46,622

Source details

DATA PUBLISHER

Cornell Lab of Ornithology

DATASET

eBird

GBIF ID

595879310

CATALOG NUMBER

OBS98635563

Rechercher les données par occurrences : Travaux pratiques

Combien y a-t-il de spécimen de « *Psychrolutes marcidus* »
récolté avant 1980 en Australie ?



Les API du GBIF International

« En informatique une **interface de programmation** est un ensemble normalisé de classes, de méthodes ou de fonctions qui sert de façade par laquelle un logiciel offre des services à d'autres logiciels »

Wikipédia



Les API du GBIF International



Designing marine protected areas off Mexico

Researchers look at methods to determine the ideal spacing between protected areas in the Gulf of California, ensuring connectivity based on the distances covered by larvae of fish species identified through GBIF.



Shifting niches and invasive species control

Researchers use data available through GBIF to investigate how species can shift their ecological niches in alien environments – complicating the prediction of invasion risks.



How important are rare species for ecosystems?

Research using records available through GBIF, in combination with other data, studies the role of rare and common species in the functioning of ecosystems.

[Animals](#) · [Plants](#) · [Fungi](#) · [Bacteria](#) · [Archaea](#)

Feedback

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[Sign up to GBits newsletter](#)
[GBIF Online Resource Centre](#)

WHO'S PARTICIPATING

[Countries](#)
[Organizations](#)
[Data publishers](#)

KEY DOCUMENTS

[Disclaimer](#)
[Data use agreement](#)
[Data sharing agreement](#)
[Memorandum of Understanding](#)
[Annual Report](#)
[GBIF Strategic Plan](#)
[GBIF Work Programme](#)

FOR DEVELOPERS


[Portal API](#)
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Les API du GBIF International

[Summary](#)[Registry](#)[Species](#)[Occurrence](#)[Maps](#)[News Feeds](#)

FEEDBACK SOUGHT

The API is currently at version v0.9 and is nearing stability - it powers all functions of this portal.
Please report issues to dev@gbif.org and help us move to a stable v1.0 (expected December 2013)



Introduction

The GBIF API provides registration, discovery and access and information services in a RESTful manner.

The API is split into logical sections to ease understanding:

- **Registry:** Provides means to create, edit, update and search for information about the datasets, organizations (e.g. data publishers), networks and the means to access them (technical endpoints). The registered content controls what is crawled and indexed in the GBIF data portal, but as a shared API may also be used for other initiatives
- **Species:** Provides services to discover and access information about species and higher taxa, and utility services for interpreting names and looking up the identifiers and complete scientific names used for species in the GBIF portal.
- **Occurrence:** Provides access to occurrence information crawled and indexed by GBIF and search services to do real time paged search and asynchronous download services to do large batch downloads.
- **Maps:** Provides simple services to show the maps of GBIF mobilized content on other sites.
- **News feed:** Provides services to stream useful information such as papers published using GBIF mobilized content for various themes

Quick links

- [Common operations](#)
- [Roadmap to v1.0](#)

[Feedback](#)

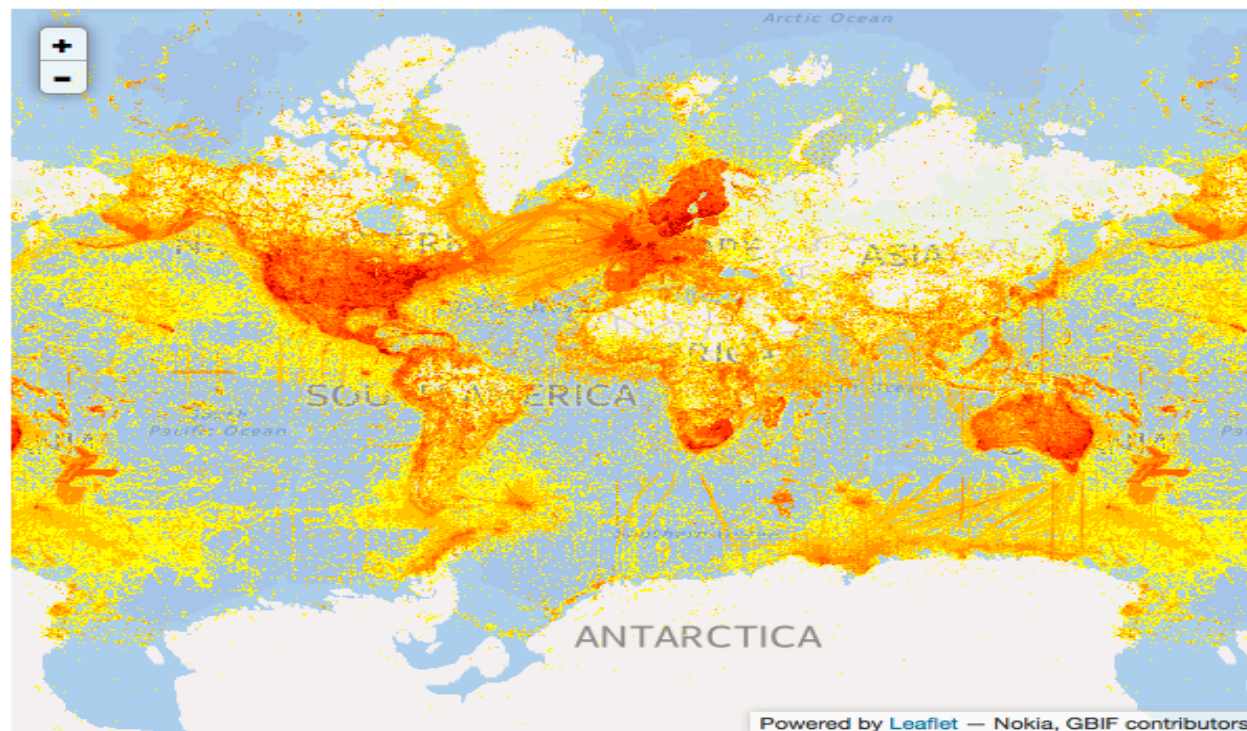
Les API du GBIF International

- Registry : webservice sur les jeux de données, les nodes, les installations et les organisations.
- Species : webservice liés aux checklists (ECAT)
- Occurrences : webservice liés aux occurrences
- Map : webservice qui permet de générer des cartes
- News Feed : flux RSS et un webservice pour récupérer les documents sur Mendeley



Les API du GBIF International

PREVIEW



Type

Key (or ISO country code)

Configured URL template (replace the {x},{y} and {z} accordingly):

```
http://api.gbif.org/v0.9/map/density/tile?x={x}&y={y}&z={z}&type=TAXON&
key=1&layer=OBS_NO_YEAR&layer=SP_NO_YEAR&layer=OTH_NO_YEAR&
layer=OBS_1900_1910&layer=SP_1900_1910&layer=OTH_1900_1910&
layer=OBS_1910_1920&layer=SP_1910_1920&layer=OTH_1910_1920&
layer=OBS_1920_1930&layer=SP_1920_1930&layer=OTH_1920_1930&
layer=OBS_1930_1940&layer=SP_1930_1940&layer=OTH_1930_1940&
layer=OBS_1940_1950&layer=SP_1940_1950&layer=OTH_1940_1950&
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layer=OBS_1960_1970&layer=SP_1960_1970&layer=OTH_1960_1970&
layer=OBS_1970_1980&layer=SP_1970_1980&layer=OTH_1970_1980&
layer=OBS_1980_1990&layer=SP_1980_1990&layer=OTH_1980_1990&
layer=OBS_1990_2000&layer=SP_1990_2000&layer=OTH_1990_2000&
layer=OBS_2000_2010&layer=SP_2000_2010&layer=OTH_2000_2010&
layer=OBS_2010_2020&layer=SP_2010_2020&layer=OTH_2010_2020&layer=LIVING&
layer=FOSSIL&palette=yellow_reds
```

CUSTOMISE

CUSTOMIZE THE LAYER

	OBS.	SPE.	OTH.
NO YEAR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1900-1910	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1910-1920	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1920-1930	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1930-1940	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1940-1950	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1950-1960	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1960-1970	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1970-1980	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1980-1990	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1990-2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2000-2010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2010+	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LIVING	<input checked="" type="checkbox"/>		
FOSSIL	<input checked="" type="checkbox"/>		

CUSTOMIZE THE COLOR

☒

☐

```
,100,#FF000033|100,10000,#00FF0033|10000,,#0000FF33
```


Les API du GBIF International

Examples of applications of GBIF data services



anymals + plants smartphone application, supported by the German Federal Ministry of Education and Research, enables users to upload georeferenced wildlife observations via their Android device. Data extracted from GBIF help to provide a list of species users can expect to find in a particular locality, and the project is now [publishing data through this portal](#).

BOLD SYSTEMS **Barcode of Life Data Systems (BOLD)**, the platform for DNA-based identification of species, has introduced a '[taxonomy browser](#)' displaying a map of GBIF-served occurrences alongside the distribution of 'barcoded' specimens for more than 170,000 species. This helps to detect outliers and possible extensions to the range of known species.



European Alien Species Information Network (EASIN) aims to improve access to data and information on alien species in Europe. It uses GBIF as one of four initial data sources for its map services. The network will support new European Union regulation on invasive alien species.



GenGIS is a bioinformatics application that allows users to combine digital map data with information about biological sequences collected from the environment. In the latest version you can add data directly from GBIF.



iMarine, an initiative co-funded by the European Commission in collaboration with the UN Food and Agriculture Organization (FAO), supports the ecosystem approach to fisheries management and the conservation of living marine resources. It uses the [D4Science](#) e-infrastructure to share data, software and computing capacity, with GBIF an important source of biodiversity data.

The e-Infrastructure

- [What is an e-Infrastructure?](#)
- [The e-Infrastructure Ecosystem](#)
- [Data Providers](#)
- [D4Science e-Infrastructure](#)

iMarine Experts



iMarine should facilitate a more efficient and collaborative use of both knowledge based and technology based resources to the benefit of the

community of scientists, managers and policy advisors working in the Marine Ecosystem management domain.

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Data Resources

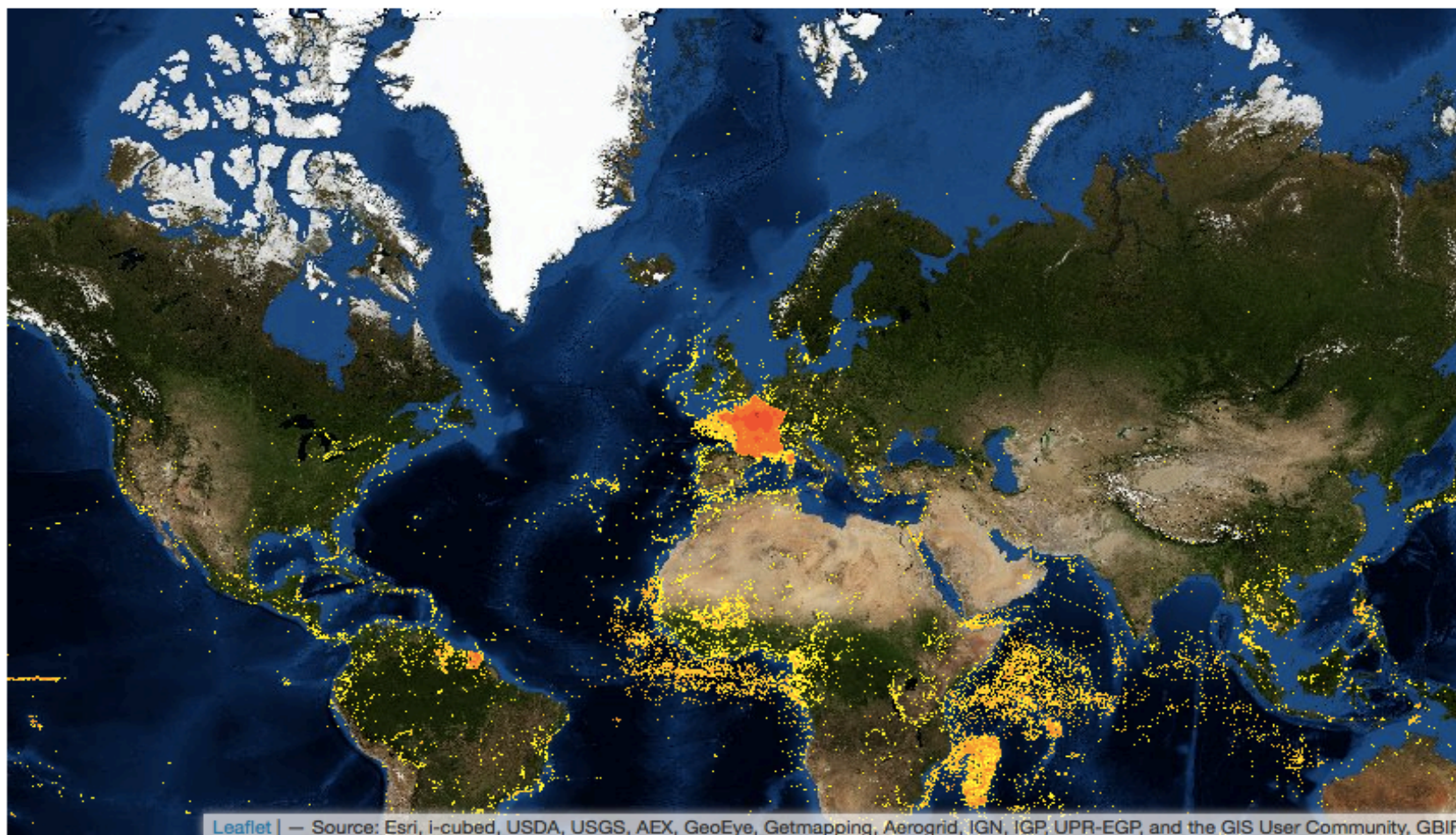


iMarine biodiversity data providers

- [Catalogue of Life](#) (taxonomy)
- [Global Biodiversity Information Facility](#) - GBIF (occurrence points)
- [Integrated Taxonomic Information System](#) - ITIS (taxonomy)
- National Center for Biogeographic Information
- [Ocean Biogeographic Information System](#) - OBIS (marine species data)
- [World Register of Marine Species](#) - WoRMS (marine taxonomy)
- [AquaMaps](#) (species maps)

iMarine environmental & climate change data providers

Les données géoréférencées fournis par le GBIF France et ses fournisseurs



[Le moteur de recherche](#)

[Les jeux de données](#)

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