

generated January 2024

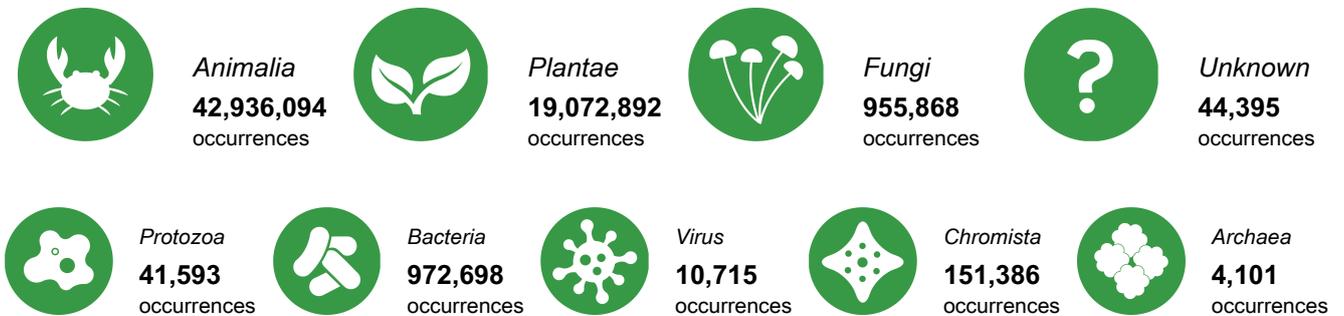
## Spain

This report provides a series of summary charts, statistics and other details about the mobilization and use of open-access species data through the GBIF network, relating to users and participating institutions in Spain. These metrics show status at the time of report generation, unless otherwise noted. Taken together, the elements of this report can help guide and measure progress toward the information needs for biodiversity research, as well as for national commitments on biodiversity and sustainable development.

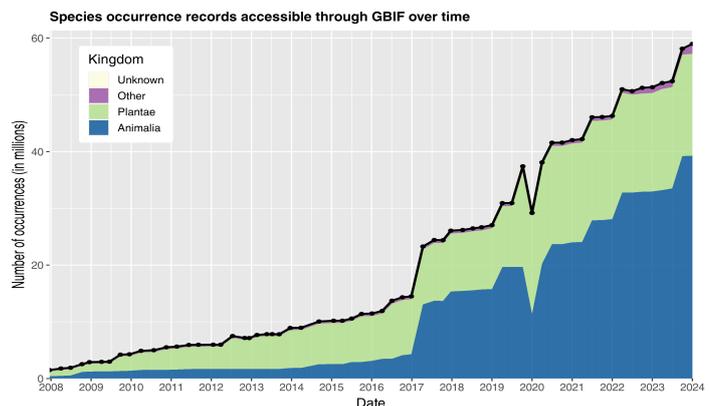
### ► Access and usage



### ► Data availability in Spain



### ► Data mobilization

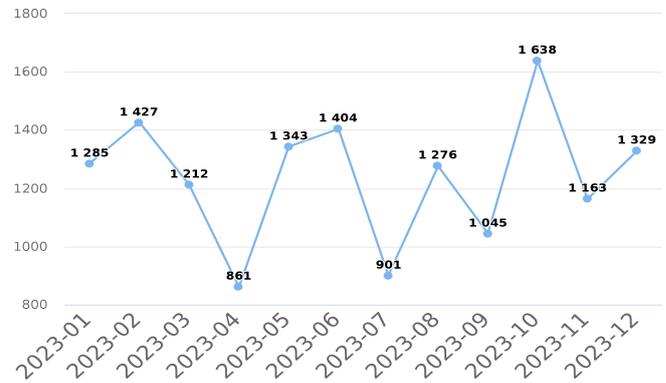
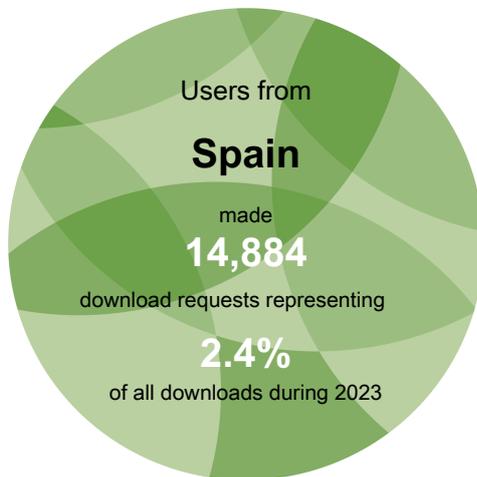


Number of records published by institutions in Spain, categorized by kingdom



## Access and usage

### Data downloads on GBIF.org from users in Spain



Monthly downloads requested by users in Spain

### Recent peer-reviewed articles using GBIF-mediated data by co-authors based in Spain

The GBIF Secretariat maintains and reports on an ongoing literature tracking programme, giving priority to substantive uses of GBIF-mediated data in peer-reviewed literature while identifying the countries or areas of the authors' institutional affiliations. The citations below represent the five most recent journal articles with at least one co-author from Spain.

Those interested in assisting the Secretariat in identifying additional peer-reviewed uses of GBIF-mediated data may forward relevant citations to [comms@gbif.org](mailto:comms@gbif.org).

Hernández-Bermejo, Labarca-Rojas, Herrera-Molina *et al.* (2023) Recovery of Neglected Species with Cloud Water Micro Condense Capacity as a Response to Climate Change: The Case of Sclerophyllous Boxwoods of *Buxus balearica* Lam. in the Southern Spanish Mediterranean. *Diversity*. <https://doi.org/10.3390/d15121184>

Lanuzza, Collado, Sayol *et al.* (2023) Brain size predicts bees' tolerance to urban environments. *Biology Letters*. <https://doi.org/10.1098/rsbl.2023.0296>

Lloyd, Leontyev, Moreno *et al.* (2023) *Tasmaniomyxa umbilicata*, a new genus and new species of myxomycete from Tasmania. *Mycologia*. <https://doi.org/10.1080/00275514.2023.2274252>

Martín-Forés, Guerin, Lewis *et al.* (2023) The Alien Flora of Australia (AFA), a unified Australian national dataset on plant invasion. *Scientific Data*. <https://doi.org/10.1038/s41597-023-02746-3>

Loos, Bafort, Bosch *et al.* (2023) Non-indigenous seaweeds in the Northeast Atlantic Ocean, the Mediterranean Sea and Macaronesia: a critical synthesis of diversity, spatial and temporal patterns. *European Journal of Phycology*. <https://doi.org/10.1080/09670262.2023.2256828>

See all research from this country or area  
[gbif.org/country/ES/publications/from](https://gbif.org/country/ES/publications/from)



## Data availability

### Total data available for selected taxonomic groups in Spain



**Mammals**  
615,045  
occurrences



**Birds**  
38,561,883  
occurrences



**Bony fish**  
487,358  
occurrences



**Amphibians**  
174,679  
occurrences



**Insects**  
2,050,071  
occurrences



**Reptiles**  
261,318  
occurrences



**Molluscs**  
292,435  
occurrences



**Arachnids**  
86,528  
occurrences



**Flowering plants**  
17,265,564  
occurrences



**Ferns**  
260,461  
occurrences



**Gymnosperms**  
1,290,688  
occurrences



**Mosses**  
114,770  
occurrences



**Sac fungi**  
468,188  
occurrences



**Basidiomycota**  
427,750  
occurrences

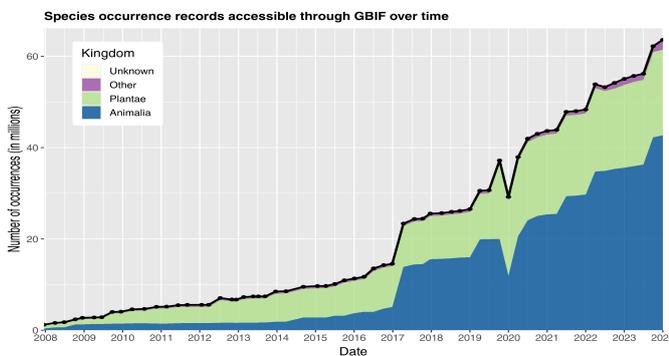
Mammals = Class *Mammalia*  
Birds = Class *Aves*  
Bony fish = Superclass  
*Osteichthyes* p.p.  
Amphibians = Class *Amphibia*

Insects = Class *Insecta*  
Reptiles = Class *Testudines*,  
*Sphenodontia*, *Squamata* &  
*Crocodylia*  
Molluscs = Phylum *Mollusca*

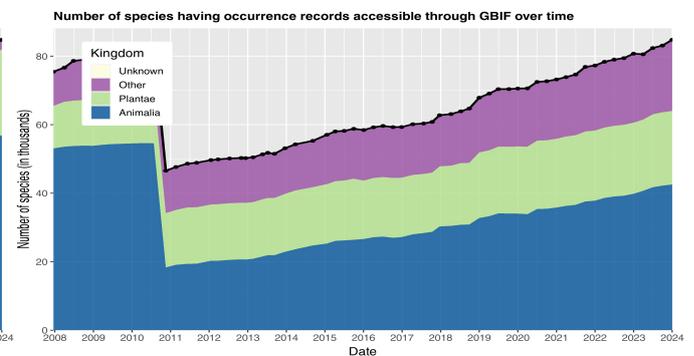
Arachnids = Class *Arachnida*  
Flowering plants = Phylum  
*Magnoliophyta*  
Gymnosperms = Superclass  
*Gymnospermae*

Ferns = Phylum *Pteridophyta*  
Mosses = Phylum *Bryophyta*  
Sac fungi = Phylum *Ascomycota*  
Basidiomycota = Phylum  
*Basidiomycota*

### Change over time in records about biodiversity in Spain



Occurrence records available about species occurring in Spain



Species for which at least one occurrence record is available in Spain

#### WHY MIGHT THE AMOUNT OF MOBILIZED DATA DECREASE?

Datasets are sometimes removed by publishers, but more often decreases in the number of records are due to the removal of duplicate records and datasets.

**SPECIES COUNTS** represent the number of binomial scientific names for which GBIF has received data records, organized as far as possible using synonyms recorded in key databases like the Catalogue of Life



## Most recent datasets from publishers in Spain

An ecological survey of Laro-limicolae in Northeastern Algeria. *Published by Museu de Ciències Naturals de Barcelona*  
<https://doi.org/10.15470/tehcztv>

Red de parcelas permanentes del ICIFOR INIA. *Published by INIA. Centro de Investigación Forestal (CSIC)*  
<https://doi.org/10.15470/73nizy>

Winter bird censuses in pine processionary moth (*Thaumetopoea pityocampa*) monitoring plots. *Published by Sierra Nevada Global Change Observatory. Andalusian Environmental Center, University of Granada, Regional Government of Andalusia*  
<https://doi.org/10.15470/yinvps>

Long-term record of defoliation intensity in monitoring plots of pine woodland by the pine processionary moth (*Thaumetopoea pityocampa*). *Published by Sierra Nevada Global Change Observatory. Andalusian Environmental Center, University of Granada, Regional Government of Andalusia*  
<https://doi.org/10.15470/osdlte>

Colección de semillas de variedades locales de la Alpujarra granadina. *Published by Sierra Nevada Global Change Observatory. Andalusian Environmental Center, University of Granada, Regional Government of Andalusia*  
<https://doi.org/10.15470/zsrwz2>

See all datasets from this country or area: [gbif.org/dataset/search?publishing\\_country=ES](https://gbif.org/dataset/search?publishing_country=ES)

## Newest publishers from Spain

Ministerio de Agricultura, Pesca y Alimentación

Instituto de Recursos Naturales y Agrobiología de Sevilla (CSIC)

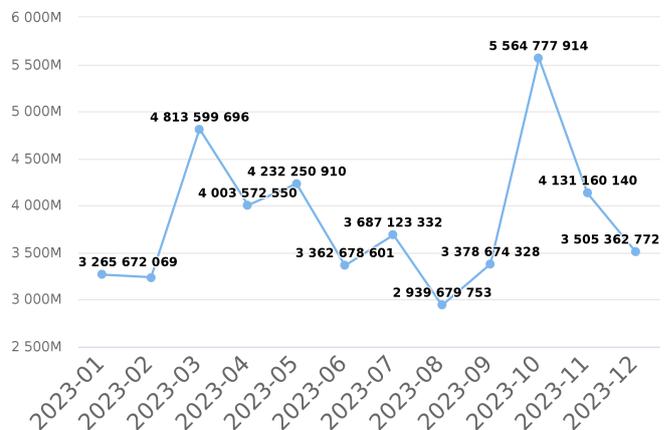
Instituto de Recursos Naturales y Ordenación del Territorio (INDUROT)

Universidad de Jaén

Federación de Asociaciones Micológicas de Castilla y León

See all publishers from this country or area  
[gbif.org/publisher/search?country=ES](https://gbif.org/publisher/search?country=ES)

## Occurrence records downloaded from GBIF.org, published by institutions in Spain

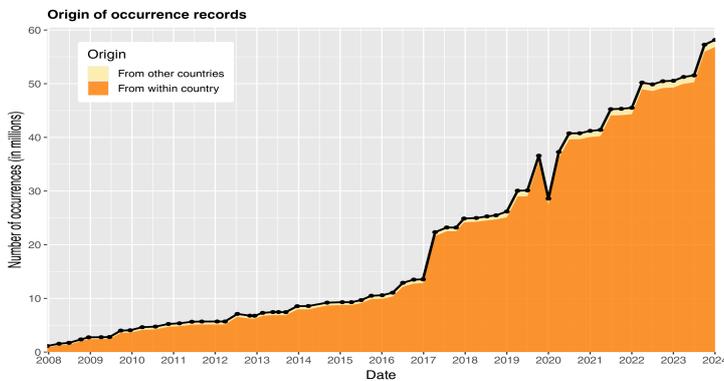


Number of occurrence records downloaded via GBIF.org published by institutions in Spain



## Data mobilization

### Data sharing with country or area of origin by national institutions in Spain



Data sharing with country or area of origin

The chart above shows the number of records shared over time by publishers within Spain, with separate colours for records about species occurring within undefined and those occurring elsewhere.

### Top data contributors about biodiversity in Spain

Rank	Country or area	No. of occurrences
1	Spain	57,407,085
2	Netherlands	2,889,642
3	United States of America	1,206,712
4	France	971,848
5	Belgium	387,805
6	Germany	384,144
7	United Kingdom	355,364
8	International organization or unknown country	99,741
9	Colombia	95,886
10	Estonia	82,775

Table 1. Ranking of countries or areas contributing data about Spain

### Top datasets contributing data about Spain

EOD – eBird Observation Dataset. 22,508,521 occurrences in Spain. (Last updated 20 Aug 2023)

Anillamiento SEO\_Bird ringing. 9,435,714 occurrences in Spain. (Last updated 17 Dec 2021)

Localización de táxones botánicos de interés para la identificación de hábitats de la REDIAM (Secretaría General de Medio Ambiente, Agua y Cambio Climático). 6,467,839 occurrences in Spain. (Last updated 13 Jul 2022)

Banco de Datos de la Biodiversidad de la Comunitat Valenciana. 2,553,304 occurrences in Spain. (Last updated 29 Nov 2023)

Observation.org, Nature data from around the World. 2,525,368 occurrences in Spain. (Last updated 12 Dec 2023)

See all contributing countries and areas or datasets: [gbif.org/country/ES/about](https://gbif.org/country/ES/about)



## Spain participates in the following projects coordinated by GBIF

### Workshop on digital documentation: Linking biodiversity data, publications and images

*Capacity Enhancement Support Programme, 2014–2015*

This project will increase the Latin American region's capacity to digitize and publish biodiversity data from scientific literature, images and other multimedia objects.

<https://www.gbif.org/project/82236>

### National portals addressing national challenges

*Capacity Enhancement Support Programme, 2023–2024*

<https://www.gbif.org/project/CESP2023-010>

### GBIF.es

*, 2014–2014*

GBIF Spain's biodiversity data portal was the first adaptation of the open-source system Atlas of Living Australia to another national platform.

<https://www.gbif.org/project/82954>

### OpenPSD: Promoting publication and use of private-sector data on biodiversity

*Capacity Enhancement Support Programme, 2019–2021*

<https://www.gbif.org/project/2Zik1tfJoh3C92ZslvhDir>

### Plinian Core for plant-pollinator interactions

*Capacity Enhancement Support Programme, 2023–2024*

<https://www.gbif.org/project/CESP2023-011>

### Cross-continental partnership to investigate data mining approaches for impactful data use cases and stories

*Capacity Enhancement Support Programme, 2022–2023*

<https://www.gbif.org/project/CESP2022-005>

### International Living Atlases workshop

*Capacity Enhancement Support Programme, 2017–2018*

This project will support and strengthen the growing international community of practice around open-source software developed by the Atlas of Living Australia.

<https://www.gbif.org/project/83337>

### Establishing a national node for Chile to enhance Latin America regional capacity

*Capacity Enhancement Support Programme, 2017–2018*

This project will promote and encourage biodiversity data sharing in Chile while distributing specialized knowledge on managing biological data and improving its quality, access and use across Latin America.

<https://www.gbif.org/project/83351>

### Agrotraining: Proofing GBIF use on agrobiodiversity through needs assessment and training

*Capacity Enhancement Support Programme, 2016–2017*

This Iberian project will design and develop a training course on the use of agro-biodiversity information available through GBIF and other relevant data sources.

<https://www.gbif.org/project/82833>

### Training in participatory biodiversity monitoring: Building locally, connecting globally

*Capacity Enhancement Support Programme, 2017–2018*

Instruction in the theory and practice of community-based monitoring hopes to establish a self-sustaining, Spanish-speaking community of practice.

<https://www.gbif.org/project/83344>

[See all GBIF projects  
gbif.org/resource/search?contentType=project](https://www.gbif.org/resource/search?contentType=project)