

generated January 2025

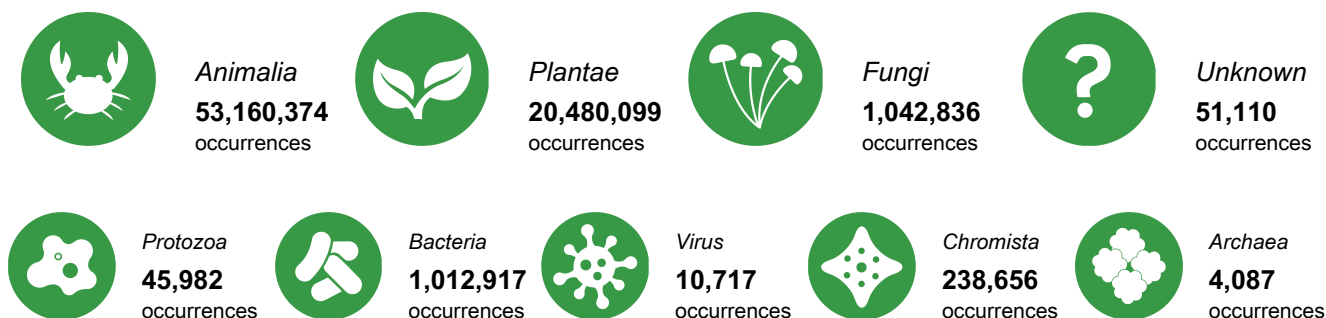
Spain

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.

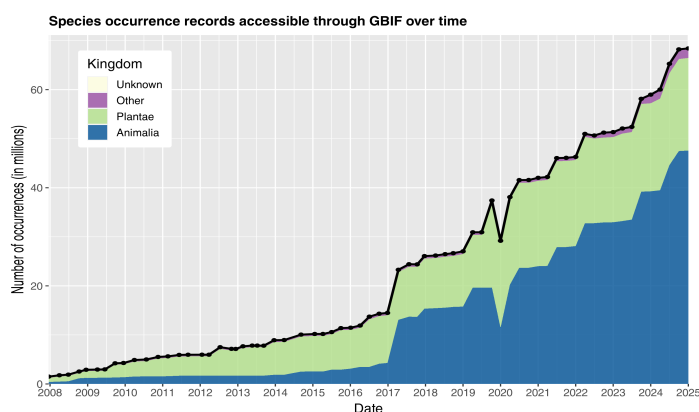
► Access and usage



► Data availability in Spain



► Data mobilization

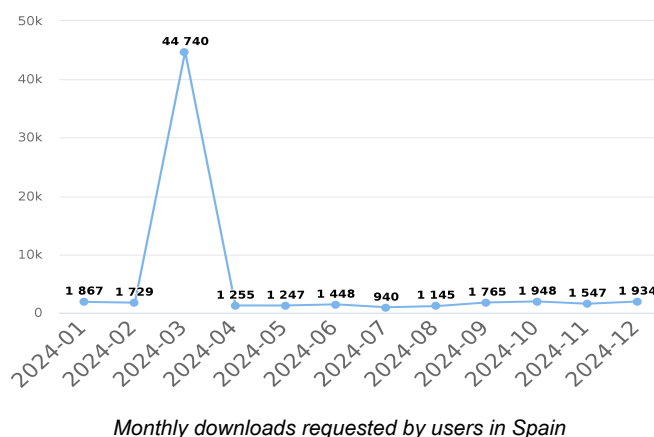
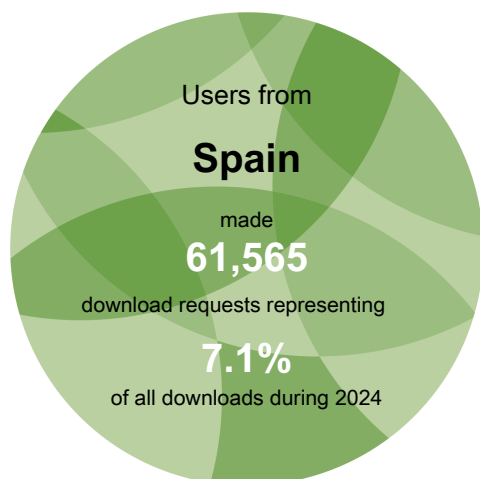


Number of records published by institutions in Spain,
categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Spain



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.

Rosero-Erazo, Frey, Armijos-Arcos *et al.* (2024) Ecological Niche Modeling of Five Azorella Species in the High Andean Páramo Ecosystem of South America: Assessing Climate Change Impacts Until 2040. *Diversity*.
<https://doi.org/10.3390/d16120736>

Bracho-Estévez, Arenas-Castro, González-Varo *et al.* (2024) Spatially explicit metrics improve the evaluation of species distribution models facing sampling biases. *Ecological Informatics*.
<https://doi.org/10.1016/j.ecoinf.2024.102916>

Balmori-de la Puente, Rodríguez-Escolar, Collado-Cuadrado *et al.* (2024) Transmission risk of vector-borne bacterial diseases (*Anaplasma* spp. and *Ehrlichia canis*) in Spain and Portugal. *BMC Veterinary Research*.
<https://doi.org/10.1186/s12917-024-04383-3>

González, Pertierra, Guerrero *et al.* (2024) High vulnerability of the endemic Southern Ocean snail *Neobuccinum eatoni* (Buccinidae) to critical projected oceanographic changes. *Scientific Reports*.
<https://doi.org/10.1038/s41598-024-80353-x>

González-Moreno, Anđelković, Adriaens *et al.* (2024) Citizen science platforms can effectively support early detection of invasive alien species according to species traits. *People and Nature*.
<https://doi.org/10.1002/pan3.10767>

See all research from this country or area
gbif.org/country/ES/publications/from



Data availability

Total data available for selected taxonomic groups in Spain



Mammals
2,488,023
occurrences



Birds
44,452,634
occurrences



Bony fish
544,398
occurrences



Amphibians
191,022
occurrences



Insects
4,149,104
occurrences



Reptiles
290,596
occurrences



Molluscs
366,139
occurrences



Arachnids
178,896
occurrences



Flowering plants
18,561,176
occurrences



Ferns
291,333
occurrences



Gymnosperms
1,311,213
occurrences



Mosses
136,906
occurrences



Sac fungi
503,635
occurrences



Basidiomycota
476,052
occurrences

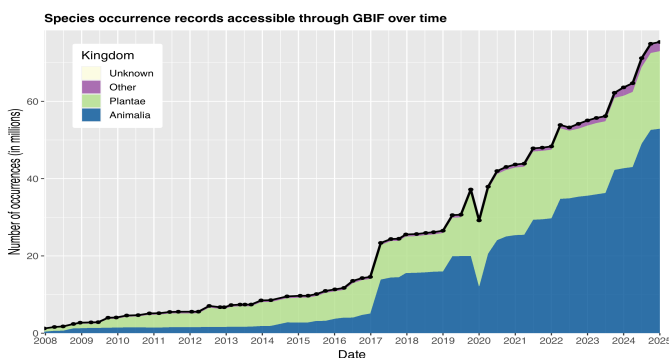
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

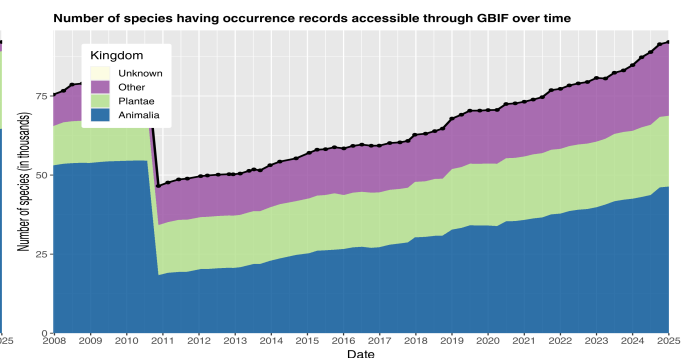
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Colección Histórica Seca del Centro Oceanográfico de Málaga (IEO-CSIC): CFM-HISTÓRICA-SECA-IEOMA. *Published by Instituto Español de Oceanografía. Centro Oceanográfico de Málaga (CSIC)*
<https://doi.org/10.15470/cxjarj>

Checklist of earthworm species (Oligochaeta) of the Andaman and Nicobar Islands, India. *Published by Museu de Ciències Naturals de Barcelona*
<https://doi.org/10.15470/dkefty>

Herbario EEZA - Colección de Angiospermae. *Published by Estación Experimental de Zonas Áridas (CSIC)*
<https://doi.org/10.15470/ttw9mc>

Monitorización de la comunidad de anfibios mediante metabarcoding de ADN ambiental - Sistema de Información de la Naturaleza de Euskadi. *Published by Basque Government*
<https://doi.org/10.15468/atwtkx>

Situación del sapillo pintojo meridional en los Parques Naturales de Izki y Valderejo - Sistema de Información de la Naturaleza de Euskadi. *Published by Basque Government*
<https://doi.org/10.15468/z35ttk>

Seguimiento de anfibios en el Parque Natural de Izki - Sistema de Información de la Naturaleza de Euskadi. *Published by Basque Government*
<https://doi.org/10.15468/48uttw>

See all datasets from this country or area: gbif.org/dataset/search?publishing_country=ES

Newest publishers from Spain

Universidade de Vigo

Instituto de Investigación en Recursos Cinegéticos (IREC /CSIC-UCLM-JCCM)

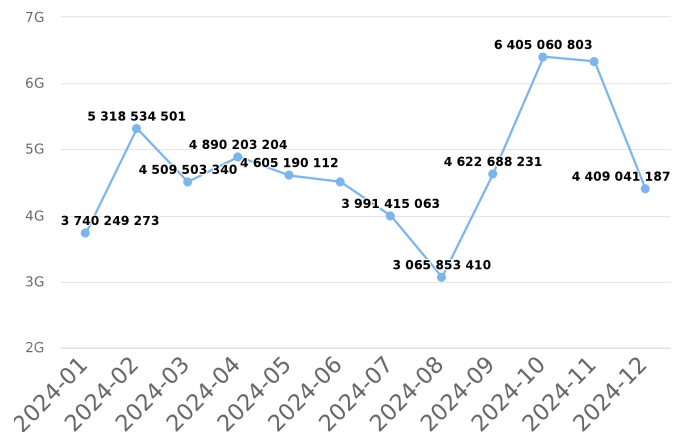
Laboratori d'Aplicacions Bioacústiques - Universitat Politècnica de Catalunya · Barcelona Tech (UPC)

Ministerio de Agricultura, Pesca y Alimentación

Instituto de Recursos Naturales y Agrobiología de Sevilla (CSIC)

See all publishers from this country or area
gbif.org/publisher/search?country=ES

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

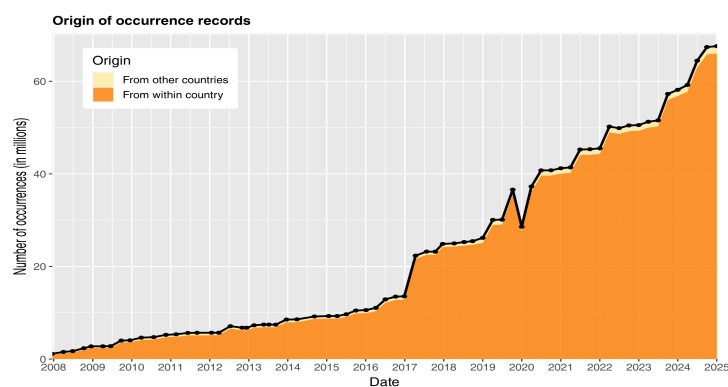


Number of occurrence records downloaded via
GBIF.org published by institutions in Spain

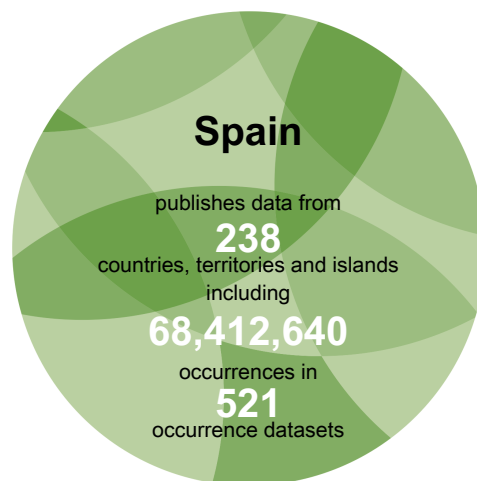


Data mobilization

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	66,676,863
2	Netherlands	4,625,040
3	United States of America	1,677,422
4	France	1,030,648
5	Belgium	626,478
6	Germany	403,903
7	United Kingdom	387,024
8	International organization or unknown country	99,049
9	Colombia	94,709
10	Estonia	83,173

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

Top datasets contributing data about Spain

EOD – eBird Observation Dataset. 28,273,645 occurrences in Spain. (Last updated 27 Sep 2024)

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)

Observation.org, Nature data from around the World. 4,253,222 occurrences in Spain. (Last updated 3 Jan 2025)

Banco de Datos de la Biodiversidad de la Comunitat Valenciana. 2,654,662 occurrences in Spain. (Last updated 5 Dec 2024)

See all contributing countries and areas or datasets: 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/2Zik1tfJoh3C92ZslvhDlr>

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)