

generated January 2025

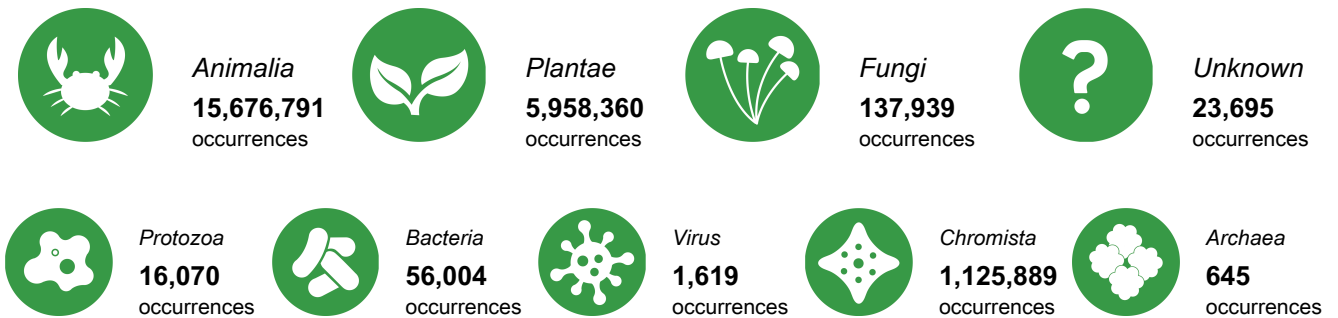
Portugal

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 Portugal. 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.

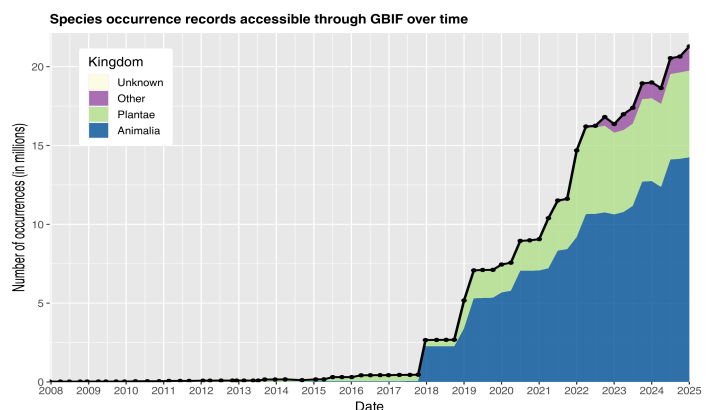
► Access and usage



► Data availability in Portugal



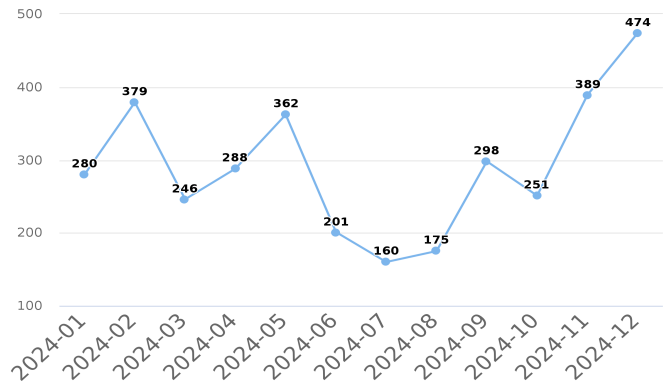
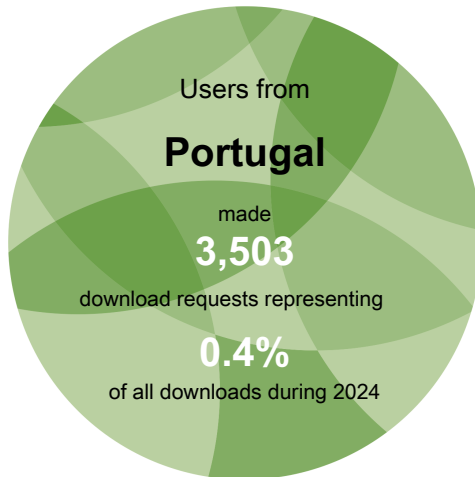
► Data mobilization





Access and usage

Data downloads on GBIF.org from users in Portugal



Monthly downloads requested by users in Portugal

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

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 Portugal.

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

Capinha, Monteiro, Ceia-Hasse. (2024) Supporting early detection of biological invasions through short-term spatial forecasts of detectability. *NeoBiota*.

<https://doi.org/10.3897/neobiota.96.129547>

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>

Nunes, Nunes, Fernandes *et al.* (2024) *Crocoshia x crocosmiiflora* : leaf cuticle and bioclimatic variability. *Plant Biosystems - An International Journal Dealing with all Aspects of Plant Biology*.

<https://doi.org/10.1080/11263504.2024.2424239>

Rocha, Chicomo, Lutondo *et al.* (2024) Wildlife mammal communities in post-war Angola are depleted and simplified: Implications for biodiversity conservation. *Animal Conservation*.

<https://doi.org/10.1111/acv.13004>

Santos, Borges, Guerreiro *et al.* (2024) Shifts in the habitat suitability for large hammerhead sharks under climate change. *Marine Biology*.

<https://doi.org/10.1007/s00227-024-04512-4>

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



Data availability

Total data available for selected taxonomic groups in Portugal



Mammals
595,052
occurrences



Birds
12,647,492
occurrences



Bony fish
193,408
occurrences



Amphibians
82,018
occurrences



Insects
1,074,702
occurrences



Reptiles
106,907
occurrences



Molluscs
141,394
occurrences



Arachnids
120,019
occurrences



Flowering plants
4,404,448
occurrences



Ferns
126,077
occurrences



Gymnosperms
372,290
occurrences



Mosses
270,855
occurrences



Sac fungi
82,633
occurrences



Basidiomycota
50,235
occurrences

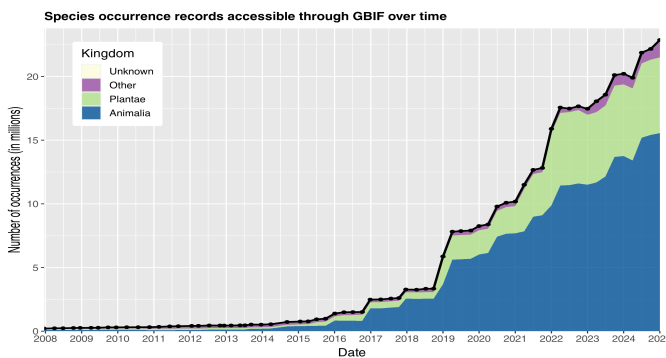
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

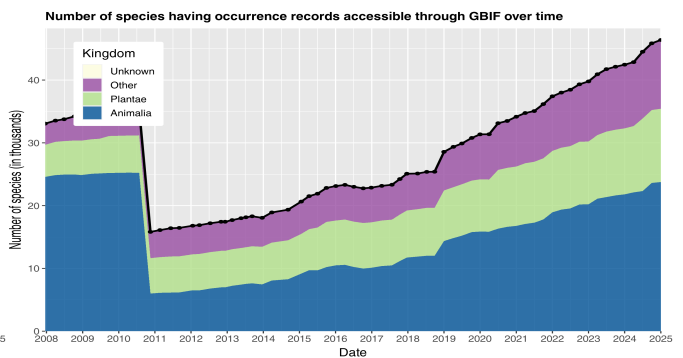
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Portugal



Occurrence records available about species occurring in Portugal



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

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 Portugal

Decapod larvae off Portuguese southern coast, August 2010. *Published by IPMA - Instituto Português do Mar e da Atmosfera*

<https://doi.org/10.15468/xqzns8>

Bees of Portugal Collection, Science Museum of the University of Coimbra. *Published by Science Museum of the University of Coimbra*

<https://doi.org/10.15468/2e4rap>

Toxic phytoplankton dynamics on the Portuguese Coast. *Published by IPMA - Instituto Português do Mar e da Atmosfera*

<https://doi.org/10.15468/swxbem>

Spatial and temporal distribution of phytoplankton off the coast of Portugal. *Published by IPMA - Instituto Português do Mar e da Atmosfera*

<https://doi.org/10.15468/bgu3re>

Phytoplankton variability on the Portuguese coast. *Published by IPMA - Instituto Português do Mar e da Atmosfera*

<https://doi.org/10.15468/9rvu4n>

Movhera Baixo Sabor: Flooding and Exploration Phase – Otter [2021-2022]. *Published by Movhera - Hidroelétricas do Norte, S.A.*

<https://doi.org/10.15468/mp47rv>

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

Newest publishers from Portugal

Jardim Botânico da Universidade de Coimbra

Movhera - Hidroelétricas do Norte, S.A.

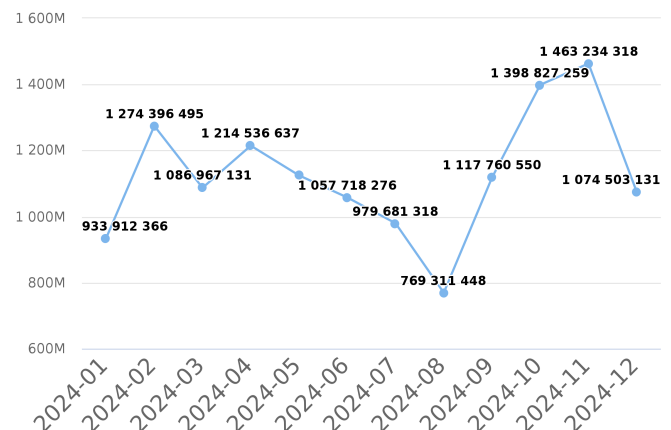
Centre of Marine Sciences

Departamento de Biologia Animal, Faculdade de Ciências, Universidade de Lisboa

Natural History Museum of the Iberian Peninsula - NatMIP ("Museu de História Natural da Península Ibérica")

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

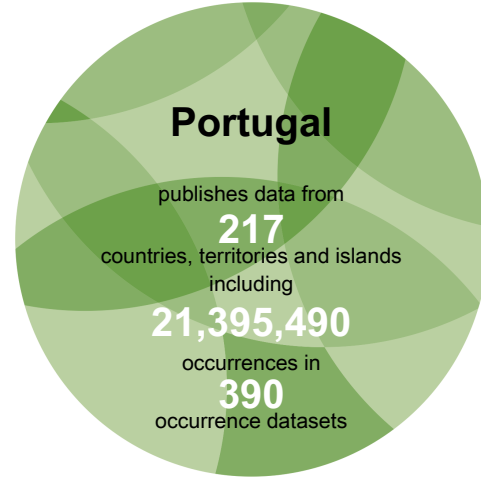
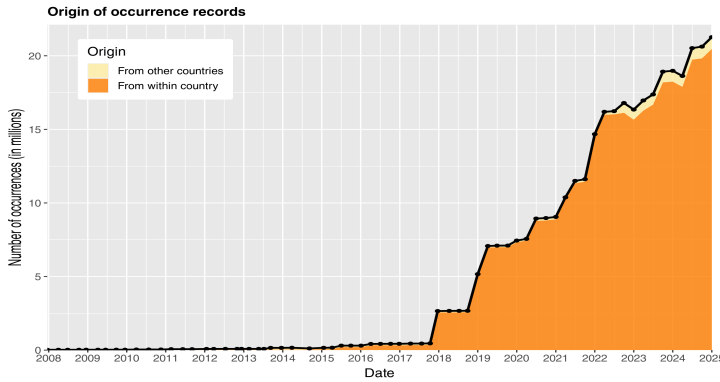
Occurrence records downloaded from GBIF.org, published by institutions in Portugal



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

Data mobilization

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



Data sharing with country or area of origin

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

Top data contributors about biodiversity in Portugal

Rank	Country or area	No. of occurrences
1	Portugal	20,579,351
2	Netherlands	566,014
3	United States of America	547,154
4	Belgium	376,712
5	Spain	252,053
6	United Kingdom	177,246
7	Germany	148,447
8	France	108,559
9	International organization or unknown country	65,200
10	Estonia	31,733

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

Top datasets contributing data about Portugal

- EOD – eBird Observation Dataset. 10,398,413 occurrences in Portugal. (Last updated 27 Sep 2024)
- Azorean Biodiversity Portal. 1,652,342 occurrences in Portugal. (Last updated 22 Mar 2023)
- iNaturalist Research-grade Observations. 868,985 occurrences in Portugal. (Last updated 30 Dec 2024)
- Forestry Inventory 2015. 579,422 occurrences in Portugal. (Last updated 12 Nov 2021)
- Forestry Inventory 2010. 575,481 occurrences in Portugal. (Last updated 12 Nov 2021)

See all contributing countries and areas or datasets: gbif.org/country/PT/about



Portugal participates in the following projects coordinated by GBIF

Promote GBIF in the African Portuguese speaking countries through documentation and seminars

Capacity Enhancement Support Programme, 2015–2016

An initiative by GBIF Portugal to ensure that the fundamental documentation on node establishment and data mobilization is available in Portuguese and to promote GBIF in Angola, Mozambique and Guinea Bissau through seminars and conferences.

<https://www.gbif.org/project/82205>

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>

GBIF.pt

, 2016–2016

The Biodiversity Data Portal of Portugal is the site for access to national information published through the GBIF.

<https://www.gbif.org/project/82967>

Filling taxonomic and geographic gaps in open data by strengthening skills of the Brazilian zoological collections network

Capacity Enhancement Support Programme, 2021–2023

<https://www.gbif.org/project/CESP2021-008>

European Bireme: EU Nodes in biodiversity reporting mechanisms

Capacity Enhancement Support Programme, 2017–2018

By detailing national reporting processes and data flows in several European Union member states, this project explored how changes to GBIF tools and procedures could streamline and improve biodiversity reporting across the region.

<https://www.gbif.org/project/83336>

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>

European training hackathon on species checklists using GBIF data

Capacity Enhancement Support Programme, 2014–2015

This regional collaboration supports a hackathon for European nodes, aiming to enhance their capacity to produce national checklists.

<https://www.gbif.org/project/82221>

Internationalization of the ALA node portal

Capacity Enhancement Support Programme, 2015–2016

Translation of ALA portal's user interface and technical documentation, such as installation and operation guides, into French, Portuguese and Spanish for use by the GBIF network.

<https://www.gbif.org/project/82202>

CRBio: Atlas of Living Costa Rica

, 2016–2016

CRBio integrates occurrence records, species pages, multimedia and scientific literature about the biodiversity of Costa Rica in a single site through the use of several biodiversity informatics APIs, including the ones developed by ALA, GBIF and BHL.

<https://www.gbif.org/project/82989>

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