

Activity report

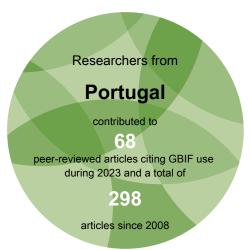


generated January 2024

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



Animalia 13,762,178 occurrences



Plantae 5,639,458 occurrences



Fungi 127,537 occurrences



Unknown 20,394 occurrences



Protozoa
6,954
occurrences



Bacteria **55,470**occurrences



Virus
1,628
occurrences



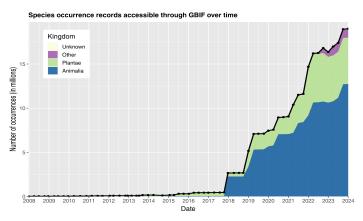
Chromista
620,293
occurrences



Archaea
645
occurrences

► Data mobilization



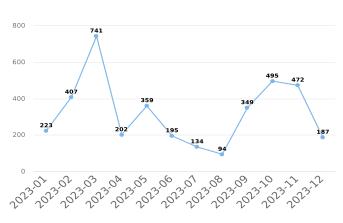


Number of records published by institutions in Portugal, categorized by kingdom

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.

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

Batalha-Filho, Barreto, Silveira *et al.* (2023) Disentangling the contemporary and historical effects of landscape on the population genomic variation of two bird species restricted to the highland forest enclaves of northeastern Brazil. *Heredity.*

https://doi.org/10.1038/s41437-023-00662-1

Campoy, Rivadeneira, Hernández *et al.* (2023) Deep-sea origin and depth colonization associated with phenotypic innovations in scleractinian corals. *Nature Communications*. https://doi.org/10.1038/s41467-023-43287-y

Vicente, Trindade, Máguas *et al.* (2023) Intraspecific Genetic and Ecological Differentiation in Australian Acacia Species: Insights from Acacia longifolia. *Wattles.* https://doi.org/10.1079/9781800622197.0007

Botella, Marchante, Celesti-Grapow *et al.* (2023) The Global Distribution of Acacia. *Wattles.*

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 999,384 occurrences



Birds 10,880,475 occurrences



Bony fish 185,789 occurrences



Amphibians 77,625 occurrences



Insects
688,972
occurrences



Reptiles 101,296 occurrences



Molluscs 125,484 occurrences



Arachnids 85,726 occurrences



Flowering plants
4,115,530
occurrences



Ferns
115,512
occurrences



Gymnosperms 368,979 occurrences



Mosses
268,623
occurrences



Sac fungi 78,779 occurrences



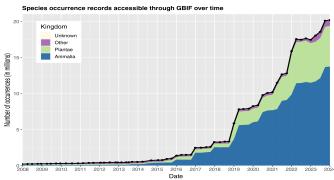
Basidiomycota 43,854 occurrences

Mammals = Class Mammalia Birds = Class Aves Bony fish = Superclass Osteichthyes p.p. Amphibians = Class Amphibia Insects = Class Insecta Reptiles = Class Testudines, Sphenodontia, Squamata & Crocodylia

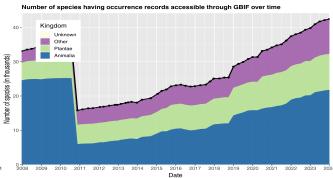
Molluscs = Phylum Mollusca

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

EDP Baixo Sabor: Exploration Phase – Vascular Flora and Habitats: Compensatory Measures Program, Compensatory Measure MC1: improvement and restoration of the riparian gallery [2015-2020]. *Published by EDP - Energias de Portugal* https://doi.org/10.15468/u7bsxt

EDP Foz-Tua: Bonneli's Eagle Prey Species: Columba spp., Alectoris rufa and Oryctolagus cuniculus (line transects) – Compensatory Measures Program, Compensatory Measure MC46B (Management of Raptors' Feeding Habitats) [2018-2020]. *Published by EDP - Energias de Portugal* https://doi.org/10.15468/4gh279

EDP Foz-Tua: Terrestrian Birds (count points) – Compensatory Measures Program, MC46B (Management of Raptors' Feeding Habitats) [2018-19]. *Published by EDP - Energias de Portugal* https://doi.org/10.15468/z2xb3k

EDP Foz-Tua: Otter (Lutra lutra) (transects) - Ecological Monitoring Program (2018-2020). *Published by EDP - Energias de Portugal* https://doi.org/10.15468/7jvsnd

EDP Foz-Tua: American Mink (Neovison vison) (transects) - Ecological Monitoring Program (2018-20). *Published by EDP - Energias de Portugal* https://doi.org/10.15468/du6nyg

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

Newest publishers from Portugal

Centre of Marine Sciences

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

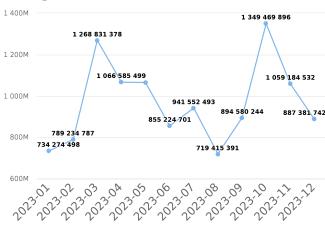
Natural History Museum of the Iberian Peninsula - NatMIP ("Museu de História Natural da Península Ibérica")

ICNF - Instituto da Conservação da Natureza e das Florestas

Herbarium of University of Coimbra (COI)

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

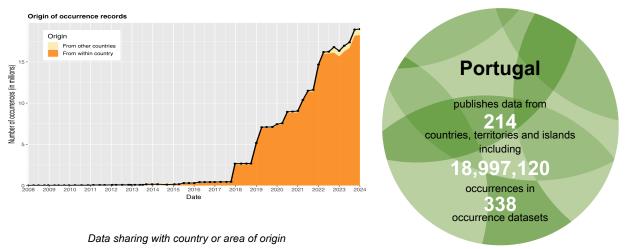
Occurrence records downloaded from GBIF.org, published by institutions in Portugal



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



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	18,248,816
2	Netherlands	480,143
3	United States of America	400,688
4	Belgium	309,871
5	United Kingdom	167,317
6	Spain	166,904
7	Germany	158,338
8	France	107,369
9	International organization or unknown country	37,224
10	Estonia	31,712

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

Top datasets contributing data about Portugal

EOD – eBird Observation Dataset. *8,804,964* occurrences in Portugal. (Last updated 20 Aug 2023)

Azorean Biodiversity Portal. 1,652,342 occurrences in Portugal. (Last updated 22 Mar 2023)

iNaturalist Research-grade Observations. 622,716 occurrences in Portugal. (Last updated 2 Jan 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