

generated January 2019

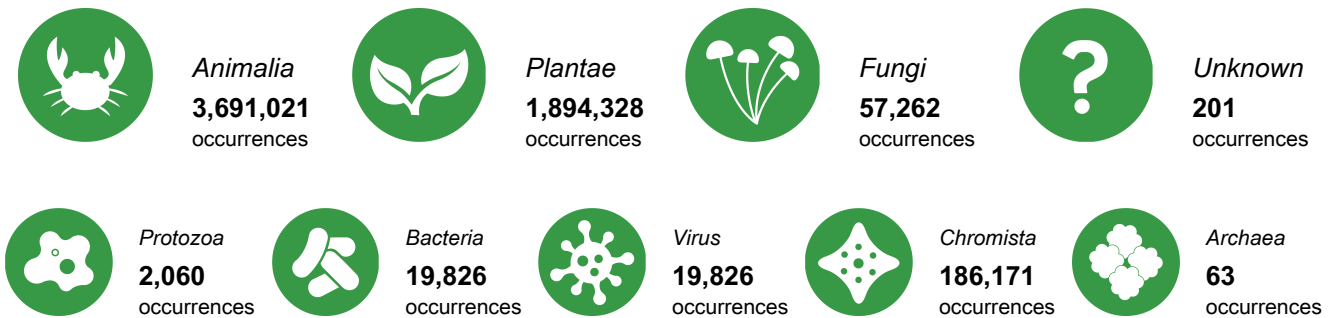
## Portugal

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.

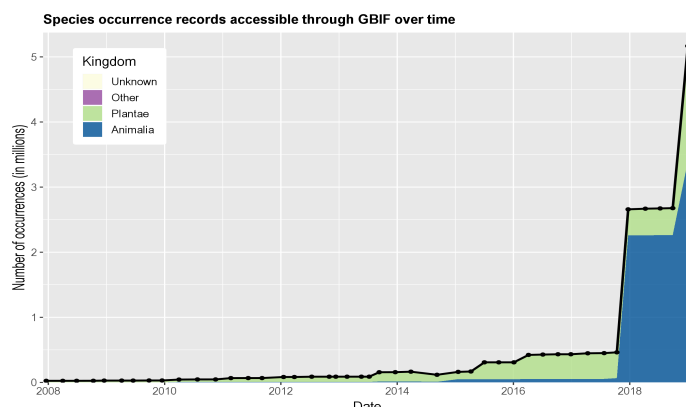
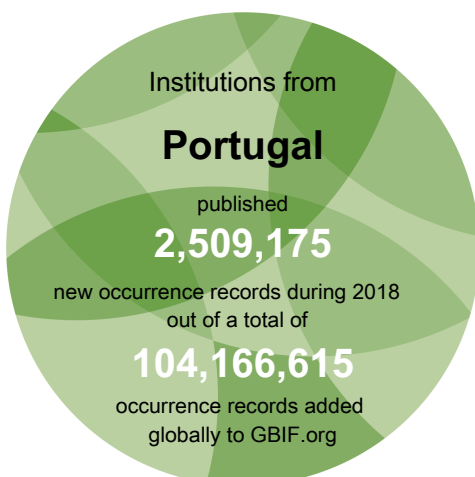
### ► Access and usage



### ► Data availability in Portugal



### ► Data mobilization

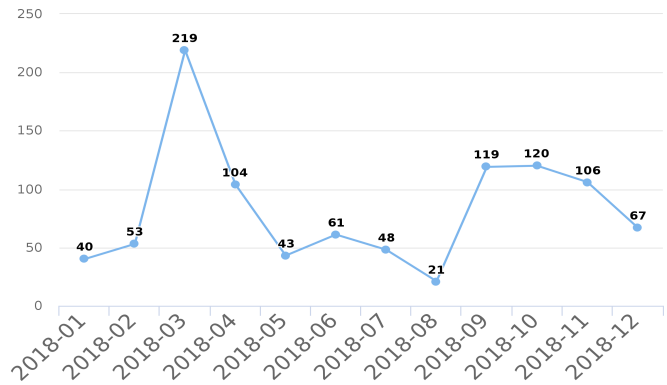
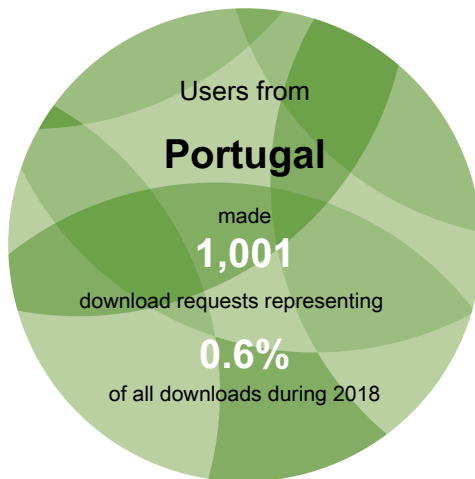


Number of records published by institutions in Portugal, categorized by kingdom



## 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](mailto:comms@gbif.org).

Seppälä, Henriques, Draney *et al.* (2018) Species conservation profiles of a random sample of world spiders IV: Scytodidae to Zoropsidae. *Biodiversity Data Journal*.  
<https://doi.org/10.3897/bdj.6.e30842>

Bermejo, Chefaoui, Engelen *et al.* (2018) Marine forests of the Mediterranean-Atlantic *Cystoseira tamariscifolia* complex show a southern Iberian genetic hotspot and no reproductive isolation in parapatry. *Scientific Reports*.  
<https://doi.org/10.1038/s41598-018-28811-1>

Senczuk, Harris, Castiglia *et al.* (2018) Evolutionary and demographic correlates of Pleistocene coastline changes in the Sicilian wall lizard *Podarcis wagleriana*. *Journal of Biogeography*.  
<https://doi.org/10.1111/jbi.13479>

Zacarias, Loyola. (2018) Climate change impacts on the distribution of venomous snakes and snakebite risk in Mozambique. *Climatic Change*.  
<https://doi.org/10.1007/s10584-018-2338-4>

Frese, Nachtigall, Iriondo *et al.* (2018) Genetic diversity and differentiation in *Patellifolia* (Amaranthaceae) in the Macaronesian archipelagos and the Iberian Peninsula and implications for genetic conservation programmes. *Genetic Resources and Crop Evolution*.  
<https://doi.org/10.1007/s10722-018-0708-4>

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



### Data availability

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



**Mammals**  
92,663  
occurrences



**Birds**  
2,724,499  
occurrences



**Bony fish**  
18,482  
occurrences



**Amphibians**  
11,677  
occurrences



**Insects**  
518,350  
occurrences



**Reptiles**  
3,482  
occurrences



**Molluscs**  
107,988  
occurrences



**Arachnids**  
91,679  
occurrences



**Flowering plants**  
1,238,124  
occurrences



**Gymnosperms**  
17,782  
occurrences



**Ferns**  
100,529  
occurrences



**Mosses**  
311,555  
occurrences



**Sac fungi**  
42,306  
occurrences



**Basidiomycota**  
14,548  
occurrences

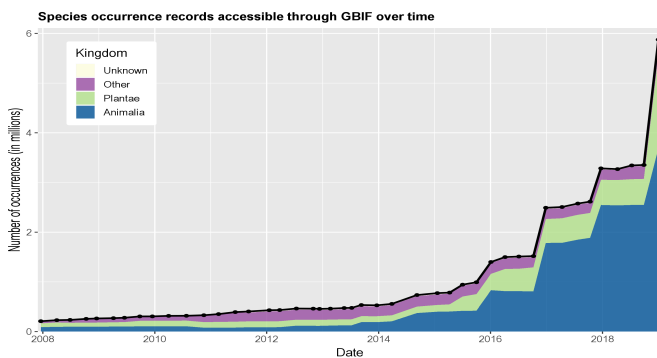
Mammals = Class Animalia  
Birds = Class Aves  
Bony fish = Superclass Osteichthyes  
Amphibians = Class Amphibia

Insects = Class Insecta  
Reptiles = Class Reptilia  
Molluscs = Phylum Mollusca  
Arachnids = Class Arachnida

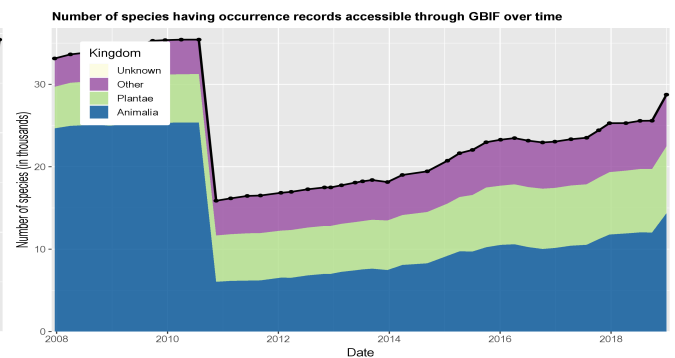
Flowering plants = Phylum Magnoliophyta  
Gymnosperms = Superclass Gymnospermae

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

Mozambique Herpetological Collection - IICT. *Published by Instituto de Investigação Científica Tropical*  
<https://doi.org/10.15468/7wqlvc>

Cape Verde Herpetological Collection - IICT. *Published by Instituto de Investigação Científica Tropical*  
<https://doi.org/10.15468/nrvfgv>

Guinea-Bissau Herpetological Collection - IICT. *Published by Instituto de Investigação Científica Tropical*  
<https://doi.org/10.15468/zlgszy>

São Tomé and Príncipe Herpetological Collection - IICT. *Published by Instituto de Investigação Científica Tropical*  
<https://doi.org/10.15468/vr54b1>

EDP Foz Tua: Amphibians - Complementary Studies [2009-2010]. *Published by EDP - Energias de Portugal*  
<https://doi.org/10.15468/zuzmhm>

EDP Foz Tua: Amphibians - Ecological Monitoring Program [2010-2017]. *Published by EDP - Energias de Portugal*  
<https://doi.org/10.15468/uo5uyu>

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

### Newest publishers from Portugal

Aquário Vasco da Gama

EDP - Energias de Portugal

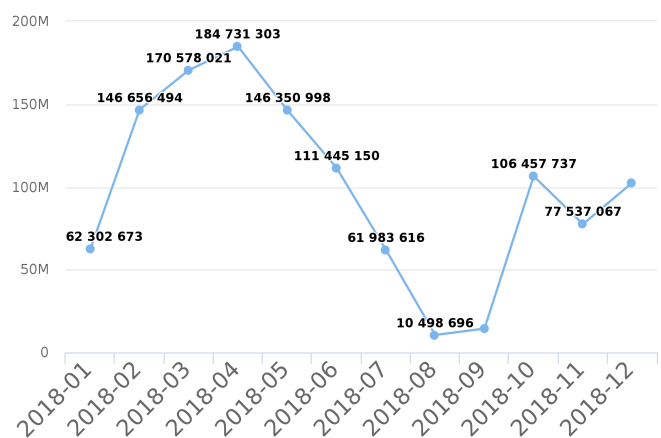
CIBIO (Research Center in Biodiversity and Genetic Resources) Portugal

IPMA - Instituto Português do Mar e da Atmosfera

Centre for ecology, evolution and environmental change

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

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

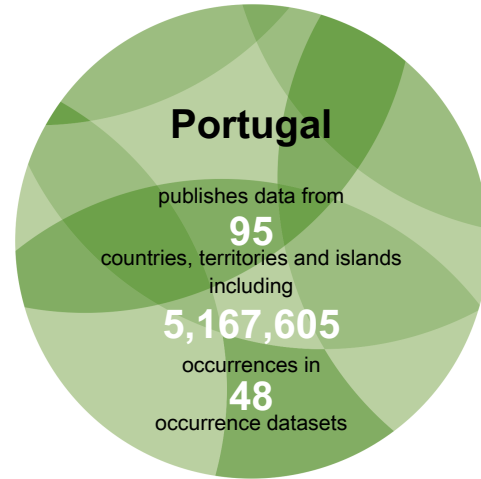
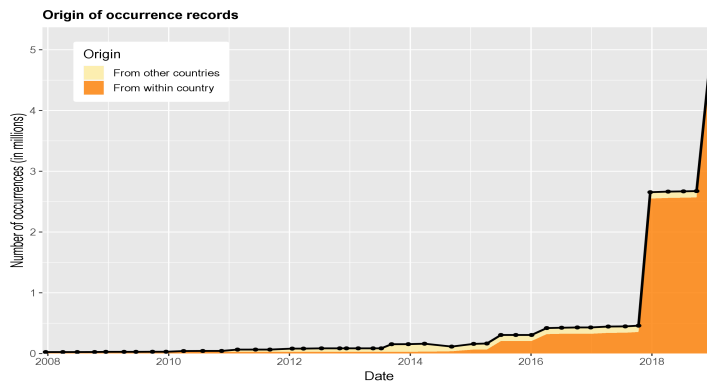


Number of occurrence records downloaded via GBIF.org published by institutions in Portugal

Since 23 July 2018, users downloading all GBIF data have been directed to a common download created at the start of each month.

## 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	5,053,713
2	Germany	216,367
3	Spain	141,630
4	Belgium	113,119
5	United Kingdom	99,440
6	Netherlands	73,360
7	United States of America	65,910
8	Colombia	30,118
9	Sweden	19,674
10	France	13,884

### Top datasets contributing data about Portugal

Azorean Biodiversity Portal. 2,408,695 occurrences in Portugal. (Last updated 2 Jan 2019)

EOD - eBird Observation Dataset. 2,192,262 occurrences in Portugal. (Last updated 8 Feb 2018)

Flora-On: occurrence data of the flora of mainland Portugal. 253,310 occurrences in Portugal. (Last updated 18 Aug 2016)

Bird tracking - GPS tracking of Lesser Black-backed Gulls and Herring Gulls breeding at the southern North Sea coast. 108,122 occurrences in Portugal. (Last updated 13 Dec 2017)

Continuous Plankton Recorder Dataset (SAHFOS). 54,834 occurrences in Portugal. (Last updated 28 Feb 2018)

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

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



## Portugal participates in the following projects coordinated by GBIF

### GBIF.pt

*Living Atlases, 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>

### 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>

### 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>

### 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>

### 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 will explore how changes to GBIF tools and procedures could streamline and improve biodiversity reporting across the region.

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

### 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>

### 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>

### CRBio: Atlas of Living Costa Rica

*Living Atlases, 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)