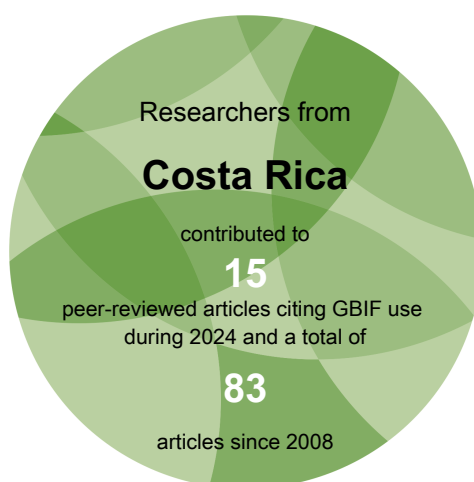


generated January 2025

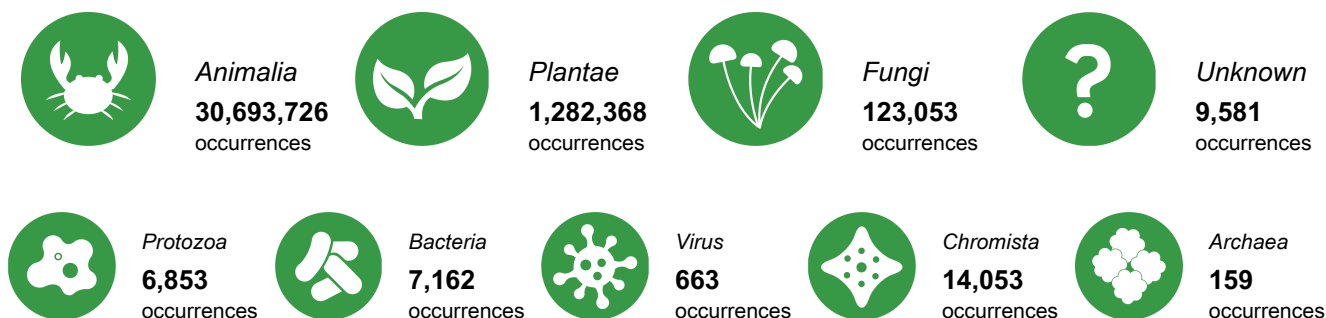
Costa Rica

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 Costa Rica. 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.

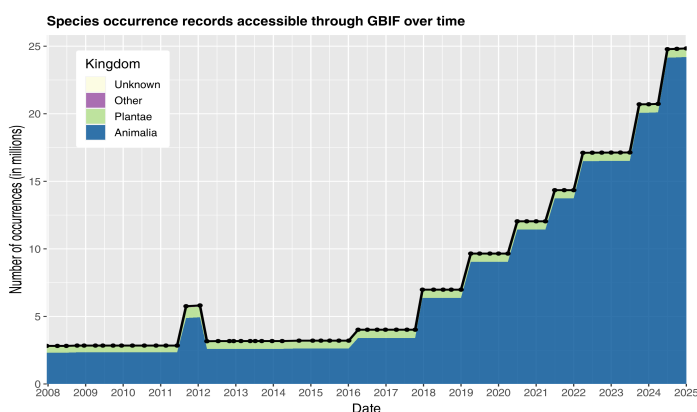
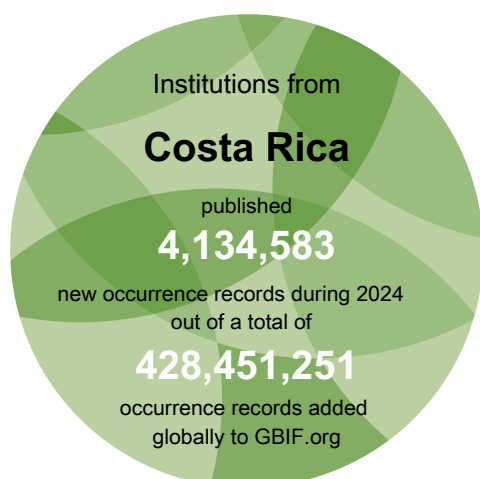
► Access and usage



► Data availability in Costa Rica



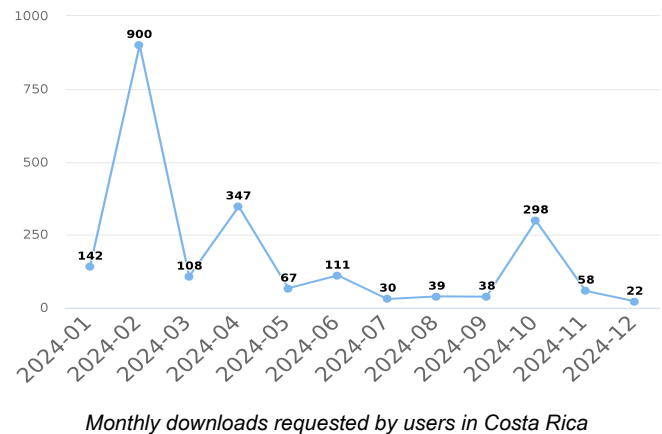
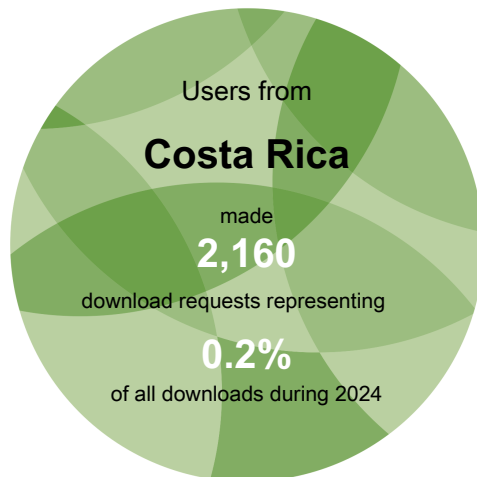
► Data mobilization



Number of records published by institutions in Costa Rica, categorized by kingdom

Access and usage

Data downloads on GBIF.org from users in Costa Rica



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

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 Costa Rica.

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

Álvarez-Alcázar, Gamboa Romero, Blanco. (2024) *Burmannia tenella* (Burmanniaceae) in Costa Rica: A new addition to the flora of Central America, with an overview of its geographic distribution, *Burmannia tenella* (Burmanniaceae) en Costa Rica: Una nueva adición a la flora de América Central, con una descripción general de su distribución geográfica. *Acta Botanica Mexicana*.
<https://doi.org/10.21829/abm131.2024.2410>

Navia, Alfaro-Shigueto, Ágreda-Arango *et al.* (2024) Unveiling Macroecological Patterns of Elasmobranchs in the Eastern Pacific Ocean. *Journal of Biogeography*.
<https://doi.org/10.1111/jbi.15037>

Chen, Xiao, Xiao *et al.* (2024) Global climate change impacts on the potential distribution of typical *Trachinotus* fishes and early warning assessment of invasions. *Environmental Research*.
<https://doi.org/10.1016/j.envres.2024.120115>

da Silva, Moura, Siqueira-Silva *et al.* (2024) Predicting the drivers of Bothrops snakebite incidence across Brazil: A Spatial Analysis. *Toxicon*.
<https://doi.org/10.1016/j.toxicon.2024.108107>

Ortiz, Cedeño-Fonseca, Esteban Jiménez *et al.* (2024) The pendent species of *Anthurium* sect. *Porphyrochitonium* from Costa Rica and Panama: synopsis, nomenclatural notes, new species, and conservation

status. *Webbia*.

<https://doi.org/10.36253/jopt-16289>

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



Data availability

Total data available for selected taxonomic groups in Costa Rica



Mammals
102,895
occurrences



Birds
21,138,438
occurrences



Bony fish
44,843
occurrences



Amphibians
87,815
occurrences



Insects
8,489,943
occurrences



Reptiles
89,429
occurrences



Molluscs
66,152
occurrences



Arachnids
51,974
occurrences



Flowering plants
1,093,034
occurrences



Ferns
135,919
occurrences



Gymnosperms
1,394
occurrences



Mosses
21,561
occurrences



Sac fungi
66,671
occurrences



Basidiomycota
51,531
occurrences

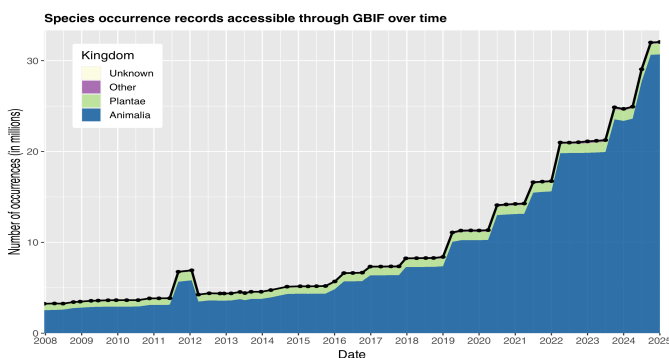
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

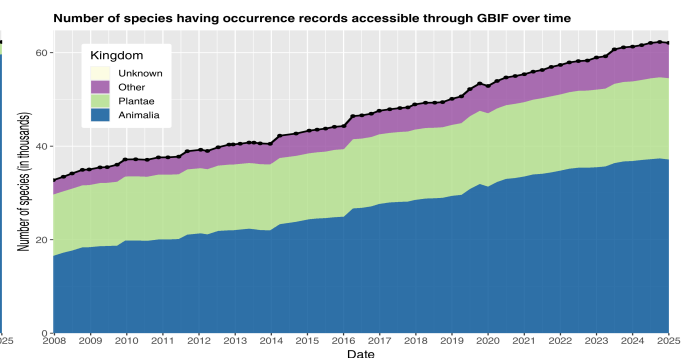
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Costa Rica



Occurrence records available about species occurring in Costa Rica



Species for which at least one occurrence record is available in Costa Rica

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 Costa Rica

Datos de cámaras trampa, Finca Los Lotes, 2024. *Published by Municipalidad de La Unión*

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

Registros de Averías de Fauna Silvestre en líneas de Distribución Eléctrica. *Published by Comisión de Electrificación Sostenible*

<https://doi.org/10.15468/9quk9d>

Evaluación Ecológica Rápida en Finca Los Lotes, 2014. *Published by Municipalidad de La Unión*

<https://doi.org/10.15468/n6reur>

Registros de Invertebrados Marinos del LEMACO, UNA. *Published by Universidad Nacional de Costa Rica*

<https://doi.org/10.15468/z3wee5>

Lista taxonómica de referencia de mamíferos de Costa Rica. *Published by Universidad Nacional de Costa Rica*

<https://doi.org/10.15468/8h2mt7>

Lista taxonómica de referencia de anfibios de Costa Rica. *Published by Universidad Nacional de Costa Rica*

<https://doi.org/10.15468/ujuzm4>

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

Newest publishers from Costa Rica

Comisión de Electrificación Sostenible

Instituto Costarricense de Electricidad

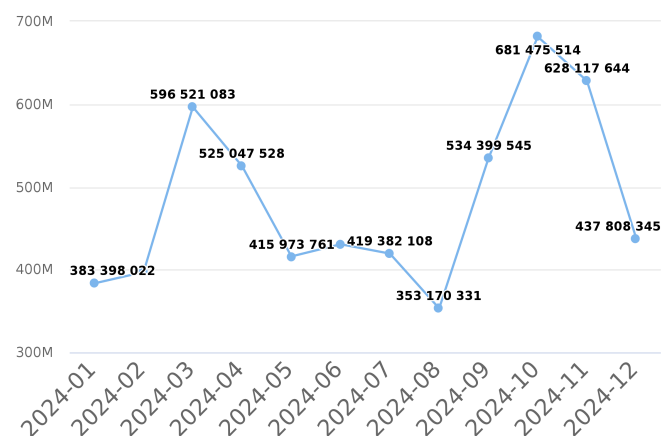
Municipalidad de La Unión

Fondo Nacional de Financiamiento Forestal

Universidad Nacional de Costa Rica

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

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

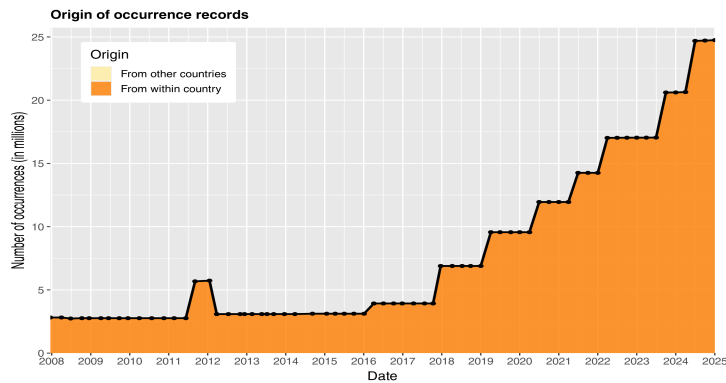


Number of occurrence records downloaded via
GBIF.org published by institutions in Costa Rica

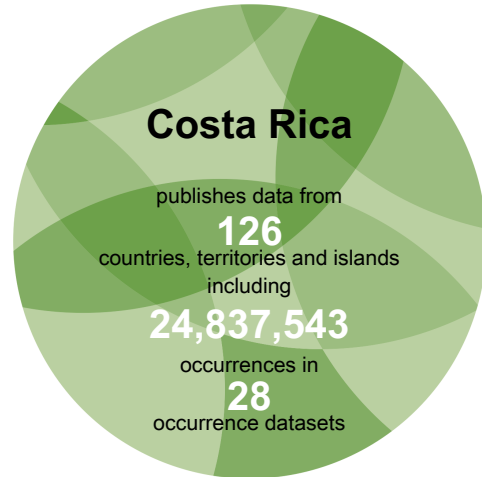


Data mobilization

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



Data sharing with country or area of origin



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

Top data contributors about biodiversity in Costa Rica

Rank	Country or area	No. of occurrences
1	Costa Rica	24,745,174
2	International organization or unknown country	4,998,267
3	United States of America	1,678,557
4	United Kingdom	243,792
5	Netherlands	133,135
6	Germany	59,677
7	Brazil	48,808
8	Canada	42,138
9	Mexico	39,848
10	Estonia	26,510

Table 1. Ranking of countries or areas contributing data about Costa Rica

Top datasets contributing data about Costa Rica

- EOD – eBird Observation Dataset. 20,648,986 occurrences in Costa Rica. (Last updated 27 Sep 2024)
- International Barcode of Life project (iBOL). 4,995,237 occurrences in Costa Rica. (Last updated 7 Aug 2024)
- Insecta of Costa Rica (INBio). 3,276,500 occurrences in Costa Rica. (Last updated 30 Aug 2016)
- iNaturalist Research-grade Observations. 477,684 occurrences in Costa Rica. (Last updated 30 Dec 2024)
- Plantae of Costa Rica (INBio). 352,692 occurrences in Costa Rica. (Last updated 30 Aug 2016)

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



Costa Rica participates in the following projects coordinated by GBIF

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>

Enhancing data publication, access and use capacities in the private sector

Capacity Enhancement Support Programme, 2022–2024

<https://www.gbif.org/project/CESP2022-010>

Extending knowledge on biodiversity data quality and publication in the Spanish-speaking community

Capacity Enhancement Support Programme, 2021–2022

<https://www.gbif.org/project/CESP2021-007>

From shared experiences to shared knowledge and common solutions: collaborating to improve web-based tools in Latin America and the Caribbean

Capacity Enhancement Support Programme, 2020–2022

Participating nodes aim to incorporate shared best practices, protocols, tools and future road maps for representing the region's biodiversity richness and abundance
<https://www.gbif.org/project/4YJIFEvYJi5kfuUVzNcfYH>

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>

Plinian Core Mentoring: strengthening best practices for mobilizing species information

Capacity Enhancement Support Programme, 2014–2015

This project will apply the Plinian Core standard as a means of increasing the quality and interoperability of species data mobilized through the GBIF network.
<https://www.gbif.org/project/82229>

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