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

Researchers from Costa Rica contributed to 9 peer-reviewed articles citing GBIF use during 2022 and a total of 62 articles since 2008.

Data availability in Costa Rica

<table>
<thead>
<tr>
<th>Kingdom</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animalia</td>
<td>19,860,515</td>
</tr>
<tr>
<td>Plantae</td>
<td>1,123,944</td>
</tr>
<tr>
<td>Fungi</td>
<td>110,870</td>
</tr>
<tr>
<td>Unknown</td>
<td>38,185</td>
</tr>
<tr>
<td>Protozoa</td>
<td>6,946</td>
</tr>
<tr>
<td>Bacteria</td>
<td>6,934</td>
</tr>
<tr>
<td>Chromista</td>
<td>51,255</td>
</tr>
<tr>
<td>Archaea</td>
<td>159</td>
</tr>
</tbody>
</table>

Data mobilization

Institutions from Costa Rica published 2,781,986 new occurrence records during 2022 out of a total of 369,598,378 occurrence records added globally to GBIF.org.
Access and usage

Data downloads on GBIF.org from users in Costa Rica

Users from Costa Rica made 630 download requests representing 0.1% of all downloads during 2022.

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.


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

Total data available for selected taxonomic groups in Costa Rica

- Mammals: 53,716 occurrences
- Birds: 13,399,912 occurrences
- Bony fish: 34,050 occurrences
- Amphibians: 72,199 occurrences
- Insects: 5,543,050 occurrences
- Reptiles: 60,992 occurrences
- Molluscs: 55,455 occurrences
- Arachnids: 32,671 occurrences
- Flowering plants: 964,217 occurrences
- Ferns: 114,311 occurrences
- Gymnosperms: 1,219 occurrences
- Mosses: 18,822 occurrences
- Sac fungi: 60,606 occurrences
- Basidiomycota: 45,218 occurrences

Mammals = Class Mammalia
Birds = Class Aves
Amphibians = Class Amphibia

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

Arachnids = Class Arachnida
Flowering plants = Phylum Magnoliophyta
Ferns = Phylum Pteridophyta
Gymnosperms = Superclass Gymnospermae
Mosses = Phylum Bryophyta
Sac fungi = Phylum Ascomycota
Basidiomycota = Phylum Basidiomycota

Change over time in records about biodiversity 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

Insecta of Costa Rica (INBio). Published by Instituto Nacional de Biodiversidad (INBio), Costa Rica. https://doi.org/10.15468/mykn0u

Onychophora of Costa Rica (INBio). Published by Instituto Nacional de Biodiversidad (INBio), Costa Rica. https://doi.org/10.15468/w6lmuz

Myriapoda of Costa Rica (INBio). Published by Instituto Nacional de Biodiversidad (INBio), Costa Rica. https://doi.org/10.15468/pftzpd

Arachnida of Costa Rica (INBio). Published by Instituto Nacional de Biodiversidad (INBio), Costa Rica. https://doi.org/10.15468/ajgxva

Fungi of Costa Rica (INBio). Published by Instituto Nacional de Biodiversidad (INBio), Costa Rica. https://doi.org/10.15468/1gkeqq

Plantea of Costa Rica (INBio). Published by Instituto Nacional de Biodiversidad (INBio), Costa Rica. https://doi.org/10.15468/tgno8a

Mollusca of Costa Rica (INBio). Published by Instituto Nacional de Biodiversidad (INBio), Costa Rica. https://doi.org/10.15468/iek4ov

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

Newest publishers from Costa Rica

Costa Rica Bird Observatories

Laboratorio de Recursos Naturales y Vida Silvestre (LARNAVISI). Universidad Nacional de Costa Rica (UNA)

Organization for Tropical Studies

Museo Nacional de Costa Rica

Instituto Nacional de Biodiversidad (INBio), Costa Rica

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

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

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

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

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country or area</th>
<th>No. of occurrences</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Costa Rica</td>
<td>17,078,468</td>
</tr>
<tr>
<td>2</td>
<td>United States of America</td>
<td>1,335,507</td>
</tr>
<tr>
<td>3</td>
<td>United Kingdom</td>
<td>220,358</td>
</tr>
<tr>
<td>4</td>
<td>Netherlands</td>
<td>98,889</td>
</tr>
<tr>
<td>5</td>
<td>Germany</td>
<td>91,177</td>
</tr>
<tr>
<td>6</td>
<td>Brazil</td>
<td>46,054</td>
</tr>
<tr>
<td>7</td>
<td>Mexico</td>
<td>35,295</td>
</tr>
<tr>
<td>8</td>
<td>Canada</td>
<td>27,823</td>
</tr>
<tr>
<td>9</td>
<td>Estonia</td>
<td>26,478</td>
</tr>
<tr>
<td>10</td>
<td>Austria</td>
<td>14,991</td>
</tr>
</tbody>
</table>

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

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

**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/4YJFfYji5fkuUVzNcYH

**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

**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