

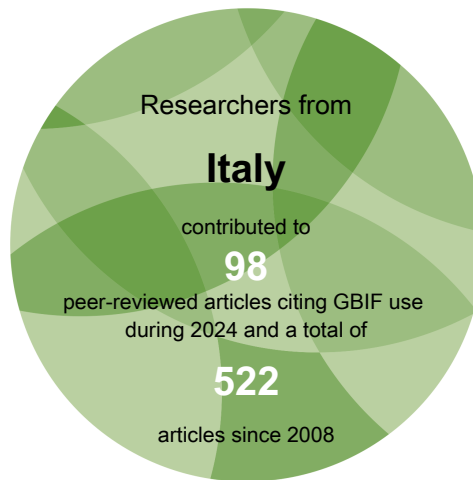


generated January 2025

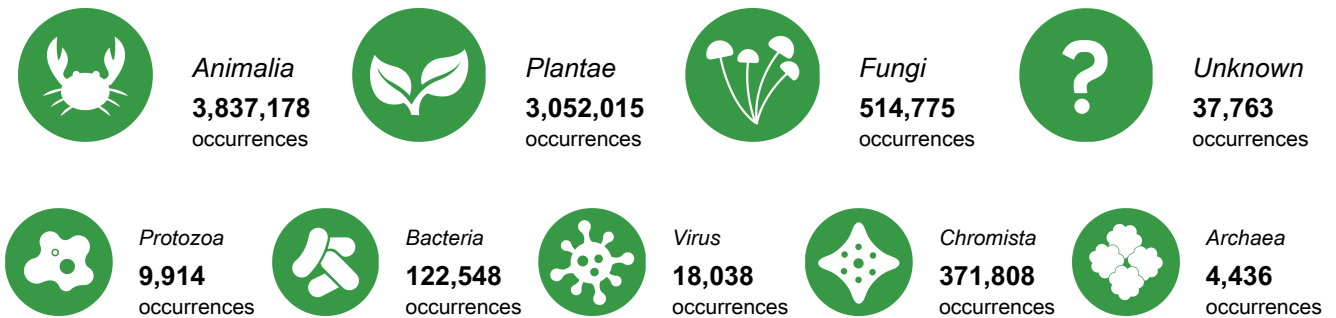
Italy

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 Italy. 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.

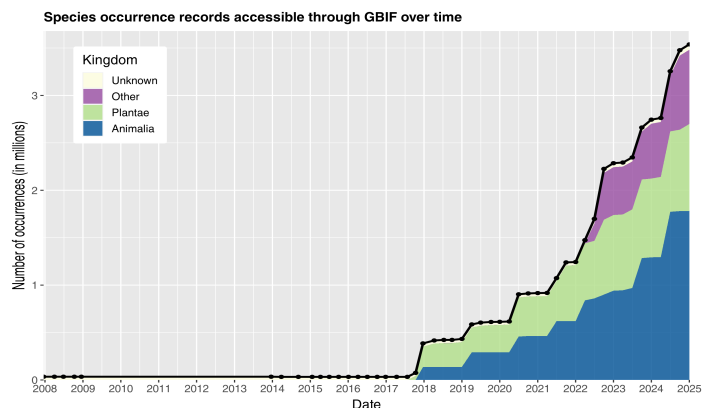
► Access and usage



► Data availability in Italy



► Data mobilization

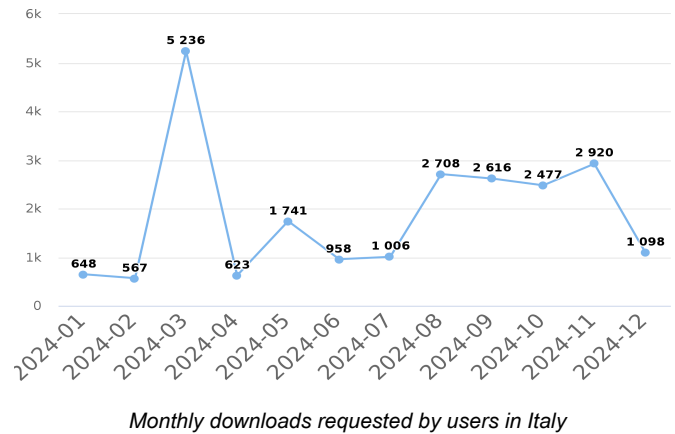
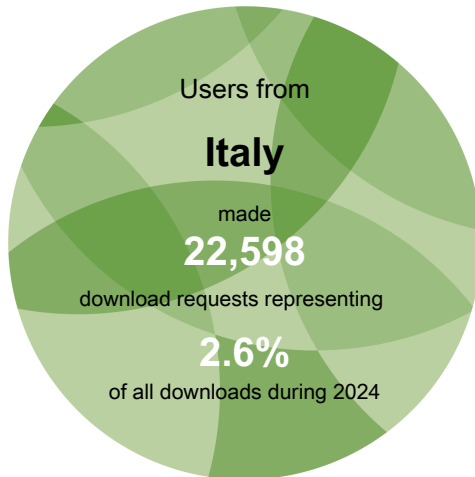


Number of records published by institutions in Italy, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Italy



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

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 Italy.

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>

D'Amen, Fortuna, Holcer *et al.* (2024) Climate change and cetacean habitat suitability in the Mediterranean Sea: a challenge for Marine Strategy Framework Directive D1C4, D1C5 criteria. *Animal Conservation*.
<https://doi.org/10.1111/acv.13002>

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>

Biancolini, Riso, Romano. (2024) Opposite effects of climate and land-use/cover change on Mediterranean herpetofauna: Insights from the southern Apennines. *Animal Conservation*.
<https://doi.org/10.1111/acv.12999>

Noè, Bommarito, Díaz-Morales *et al.* (2024) Response of native and invasive grazers to global warming: marine heatwaves vs. gradual trends. *Marine Ecology Progress Series*.
<https://doi.org/10.3354/meps14716>

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



Data availability

Total data available for selected taxonomic groups in Italy



Mammals
88,282
occurrences



Birds
2,125,177
occurrences



Bony fish
97,833
occurrences



Amphibians
47,326
occurrences



Insects
991,926
occurrences



Reptiles
69,610
occurrences



Molluscs
171,676
occurrences



Arachnids
52,152
occurrences



Flowering plants
2,891,152
occurrences



Ferns
59,066
occurrences



Gymnosperms
37,220
occurrences



Mosses
25,018
occurrences



Sac fungi
275,477
occurrences



Basidiomycota
212,319
occurrences

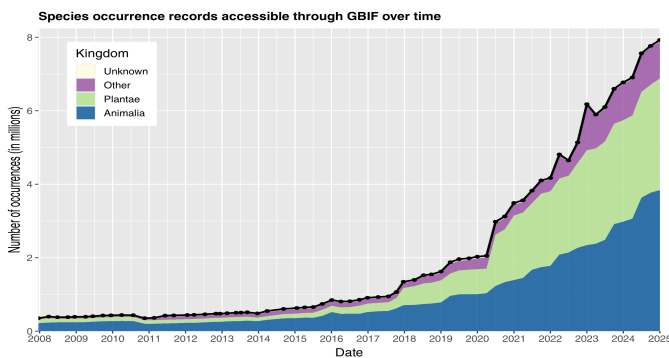
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

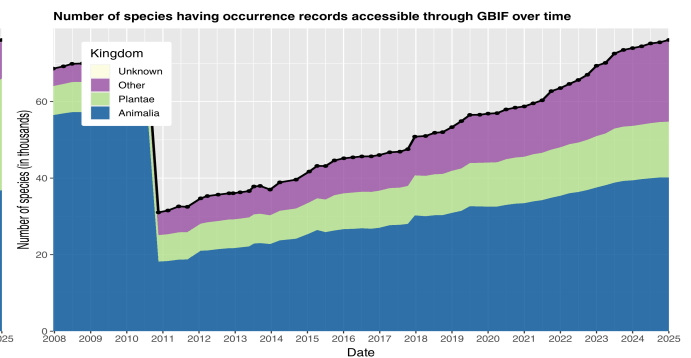
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Italy



Occurrence records available about species occurring in Italy



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

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 Italy

Mobilising marine biodiversity data: a new malacological dataset of Italian records (Mollusca).

Published by Museo di Zoologia (MZUR) - Sapienza University of Rome

<https://doi.org/10.15468/6ns4w3>

Museo di Zoologia (MZUR) - Sapienza University of Rome. *Published by Museo di Zoologia (MZUR) - Sapienza University of Rome*

<https://doi.org/10.15468/9scwg5>

Carabid beetles in Southern Dolomites from 1983 to 1996. *Published by Dept. Biology Ecology and Earth Sciences - Università della Calabria*

<https://doi.org/10.15468/tysq92>

Minor Olive tree cultivars from Umbria, Italy (CNR-IBBR-OLIVE-MINOR-CV). *Published by Consiglio Nazionale delle Ricerche, Istituto di Bioscienze e BioRisorse (CNR-IBBR)*

<https://doi.org/10.15468/tmkk2g>

Cryobank of Tissues from Ancient Varieties of Fruit Trees (CNR-IBE-CRYOBANK-01). *Published by Consiglio Nazionale delle Ricerche, Istituto di Bioscienze e BioRisorse (CNR-IBBR)*

<https://doi.org/10.15468/7rhn8v>

CNR-IBBR-PG Progenies from various crosses of Olive tree cultivars. *Published by Consiglio Nazionale delle Ricerche, Istituto di Bioscienze e BioRisorse (CNR-IBBR)*

<https://doi.org/10.15468/4ngbyr>

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

Newest publishers from Italy

University of Turin - Dept. Life Sciences and Systems Biology - Herbarium TO

Dept. of Biological, Geological and Environmental Sciences, University of Bologna

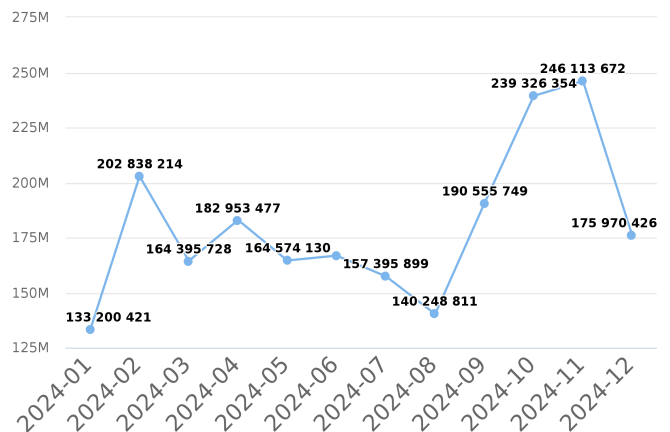
Consiglio Nazionale delle Ricerche, Istituto di Scienze Marine

Consiglio Nazionale delle Ricerche, Istituto di Bioscienze e BioRisorse (CNR-IBBR)

Council for Agricultural Research and Economics, Research Centre for Plant Protection and Certification

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

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

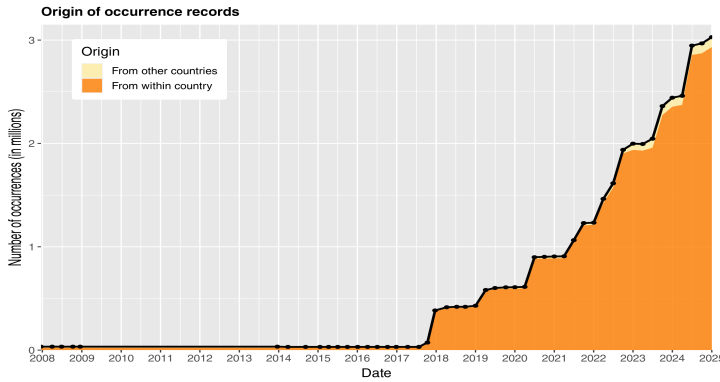


Number of occurrence records downloaded via GBIF.org published by institutions in Italy



Data mobilization

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



Data sharing with country or area of origin

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

Top data contributors about biodiversity in Italy

Rank	Country or area	No. of occurrences
1	Italy	2,979,838
2	United States of America	1,687,606
3	France	1,123,463
4	Netherlands	431,265
5	Germany	330,345
6	Estonia	315,627
7	United Kingdom	280,061
8	Austria	179,053
9	Switzerland	151,409
10	Belgium	95,175

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

Top datasets contributing data about Italy

- EOD – eBird Observation Dataset. 1,612,205 occurrences in Italy. (Last updated 27 Sep 2024)
- iNaturalist Research-grade Observations. 1,520,287 occurrences in Italy. (Last updated 30 Dec 2024)
- PI@ntNet automatically identified occurrences. 928,183 occurrences in Italy. (Last updated 8 Feb 2023)
- Global soil organisms. 286,266 occurrences in Italy. (Last updated 27 Feb 2023)
- Wikiplantbase #Toscana. 281,547 occurrences in Italy. (Last updated 4 Aug 2021)

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