

generated January 2025

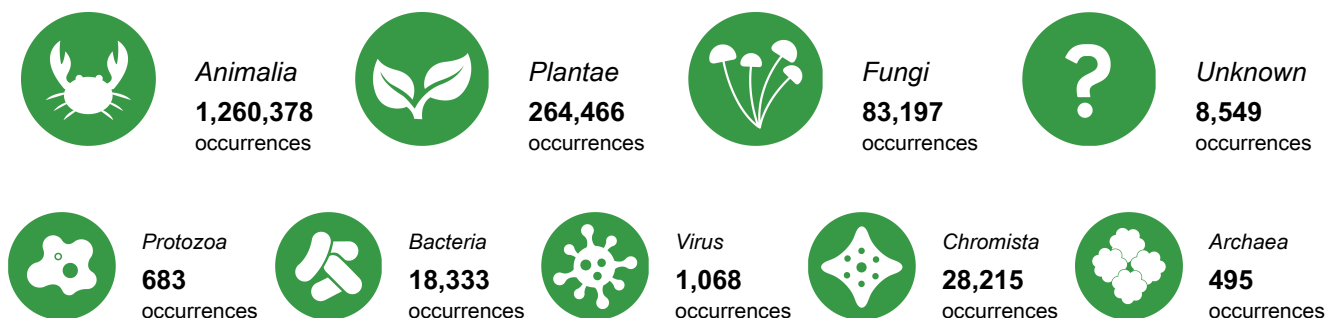
Morocco

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 Morocco. 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.

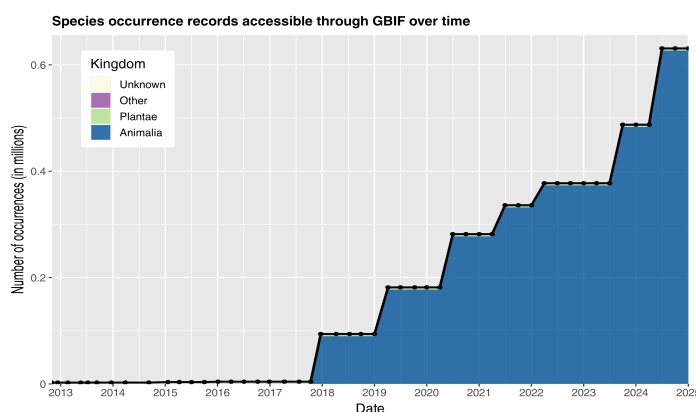
► Access and usage



► Data availability in Morocco



► Data mobilization

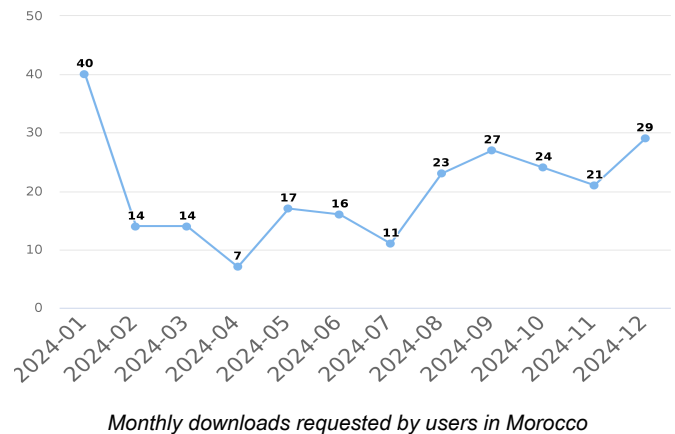
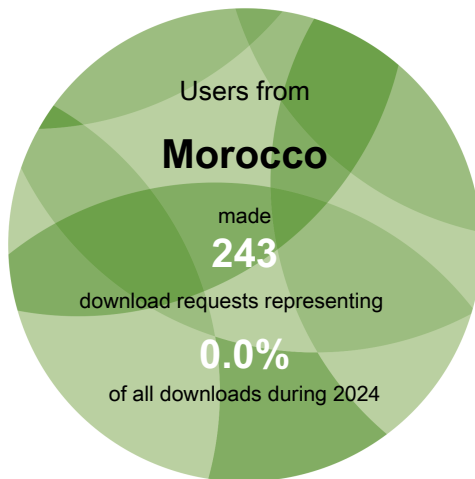


Number of records published by institutions in Morocco, categorized by kingdom



Access and usage

Data downloads on GBIF.org from users in Morocco



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

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 Morocco.

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

El fallah, El kharrim, Belghyti. (2024) Modeling of ecological niches of Barbary Partridge (*Alectoris barbara*) under conditions of bioclimatic variability in the Fes-Meknes region (Morocco). *IOP Conference Series: Earth and Environmental Science*.
<https://doi.org/10.1088/1755-1315/1398/1/012018>

El fallah, Charafi, El kharrim *et al.* (2024) Modeling of the spatial distribution of species of interest in agriculture for their conservation: case of *Punica granatum* L.. *IOP Conference Series: Earth and Environmental Science*.
<https://doi.org/10.1088/1755-1315/1398/1/012017>

Adiba, Hejazi, Kouighat *et al.* (2024) Climate change resilience of pomegranate: a comprehensive analysis of geographical distribution and adaptation in Morocco. *Plant Physiology Reports*.
<https://doi.org/10.1007/s40502-024-00805-4>

Hakam, Ongoma, Beniaich *et al.* (2024) Assessment of the impact of climate change on Argan tree in the Mediterranean GIAHS site, Morocco: current and future distributions. *Modeling Earth Systems and Environment*.
<https://doi.org/10.1007/s40808-024-02077-1>

El Fallah, Adiba, Charafi *et al.* (2024) Modeling current and future pomegranate distribution under climate change scenarios in the Fes-Meknes region, Morocco. *Euro-Mediterranean Journal for Environmental*

Integration.

<https://doi.org/10.1007/s41207-024-00563-7>

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



Data availability

Total data available for selected taxonomic groups in Morocco



Mammals
16,788
occurrences



Birds
1,085,190
occurrences



Bony fish
9,699
occurrences



Amphibians
9,208
occurrences



Insects
67,790
occurrences



Reptiles
15,849
occurrences



Molluscs
18,405
occurrences



Arachnids
3,094
occurrences



Flowering plants
249,367
occurrences



Ferns
2,887
occurrences



Gymnosperms
2,795
occurrences



Mosses
4,084
occurrences



Sac fungi
39,149
occurrences



Basidiomycota
40,714
occurrences

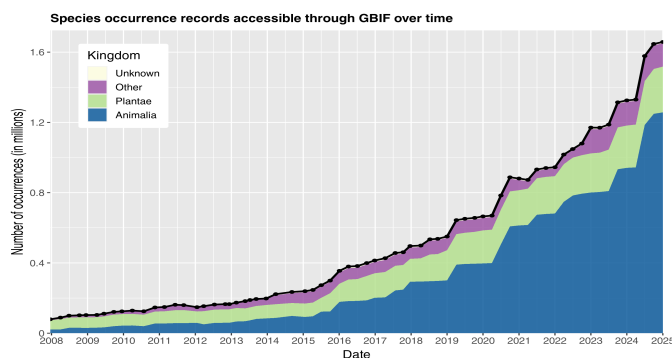
Mammals = Class *Mammalia*
Birds = Class *Aves*
Bony fish = Superclass
Osteichthyes p.p.
Amphibians = Class *Amphibia*

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

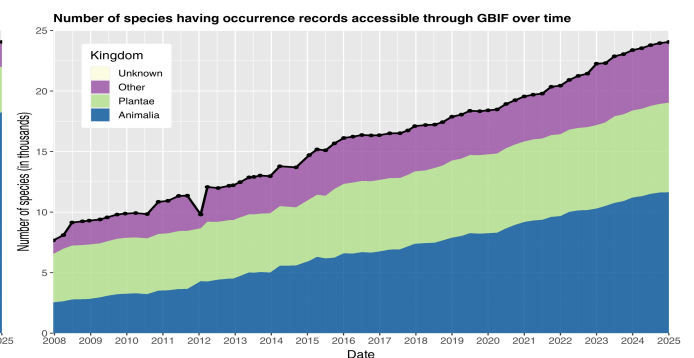
Arachnids = Class *Arachnida*
Flowering plants = Phylum
Magnoliophyta
Gymnosperms = Superclass
Gymnospermae

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

Change over time in records about biodiversity in Morocco



Occurrence records available about species occurring in Morocco



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

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 Morocco

Herbarium specimens of Institut Scientifique Mohamed V university (RAB). *Published by Institut Scientifique, Mohamed V University*
<https://doi.org/10.15468/48pwft>

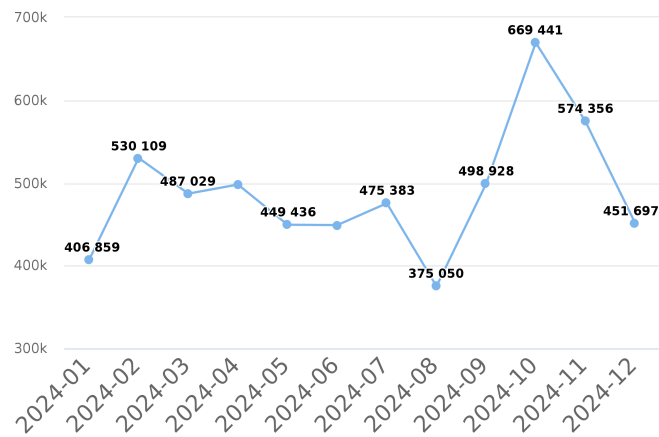
See all datasets from this country or area: gbif.org/dataset/search?publishing_country=MA

Newest publishers from Morocco

Institut Scientifique, Mohamed V University

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

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

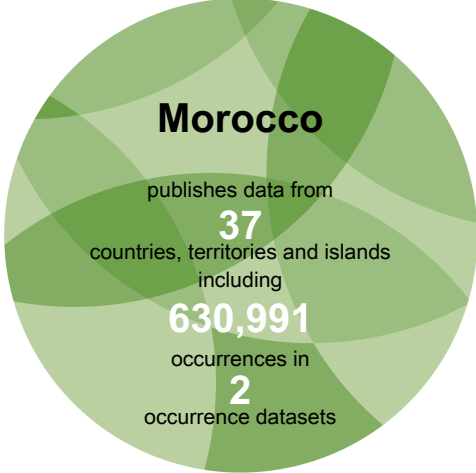
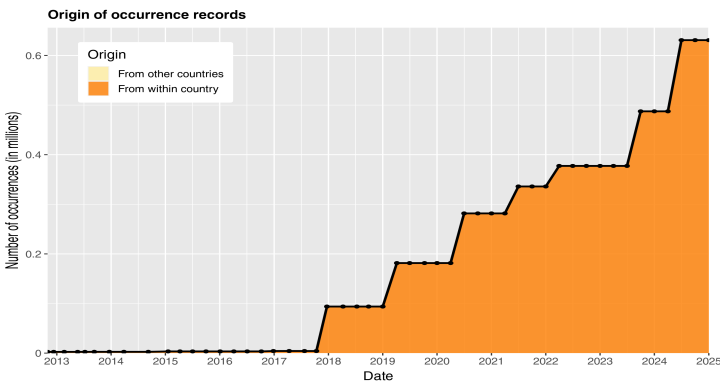


Number of occurrence records downloaded via GBIF.org published by institutions in Morocco



Data mobilization

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



Data sharing with country or area of origin

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

Top data contributors about biodiversity in Morocco

Rank	Country or area	No. of occurrences
1	Morocco	630,370
2	Belgium	275,009
3	Netherlands	185,418
4	Spain	156,636
5	Estonia	97,680
6	United States of America	94,221
7	France	51,601
8	United Kingdom	47,386
9	Germany	41,872
10	International organization or unknown country	19,000

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

Top datasets contributing data about Morocco

- EOD – eBird Observation Dataset. 626,658 occurrences in Morocco. (Last updated 27 Sep 2024)
- Observation.org, Nature data from around the World. 164,506 occurrences in Morocco. (Last updated 3 Jan 2025)
- LBBG_ZEEBRUGGE - Lesser black-backed gulls (Larus fuscus, Laridae) breeding at the southern North Sea coast (Belgium and the Netherlands). 116,487 occurrences in Morocco. (Last updated 4 Sep 2024)
- DELTATRACK - Herring gulls (Larus argentatus, Laridae) and lesser black-backed gulls (Larus fuscus, Laridae) breeding at Neeltje Jans (Netherlands). 105,340 occurrences in Morocco. (Last updated 3 Sep 2024)
- Global soil organisms. 79,672 occurrences in Morocco. (Last updated 27 Feb 2023)

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