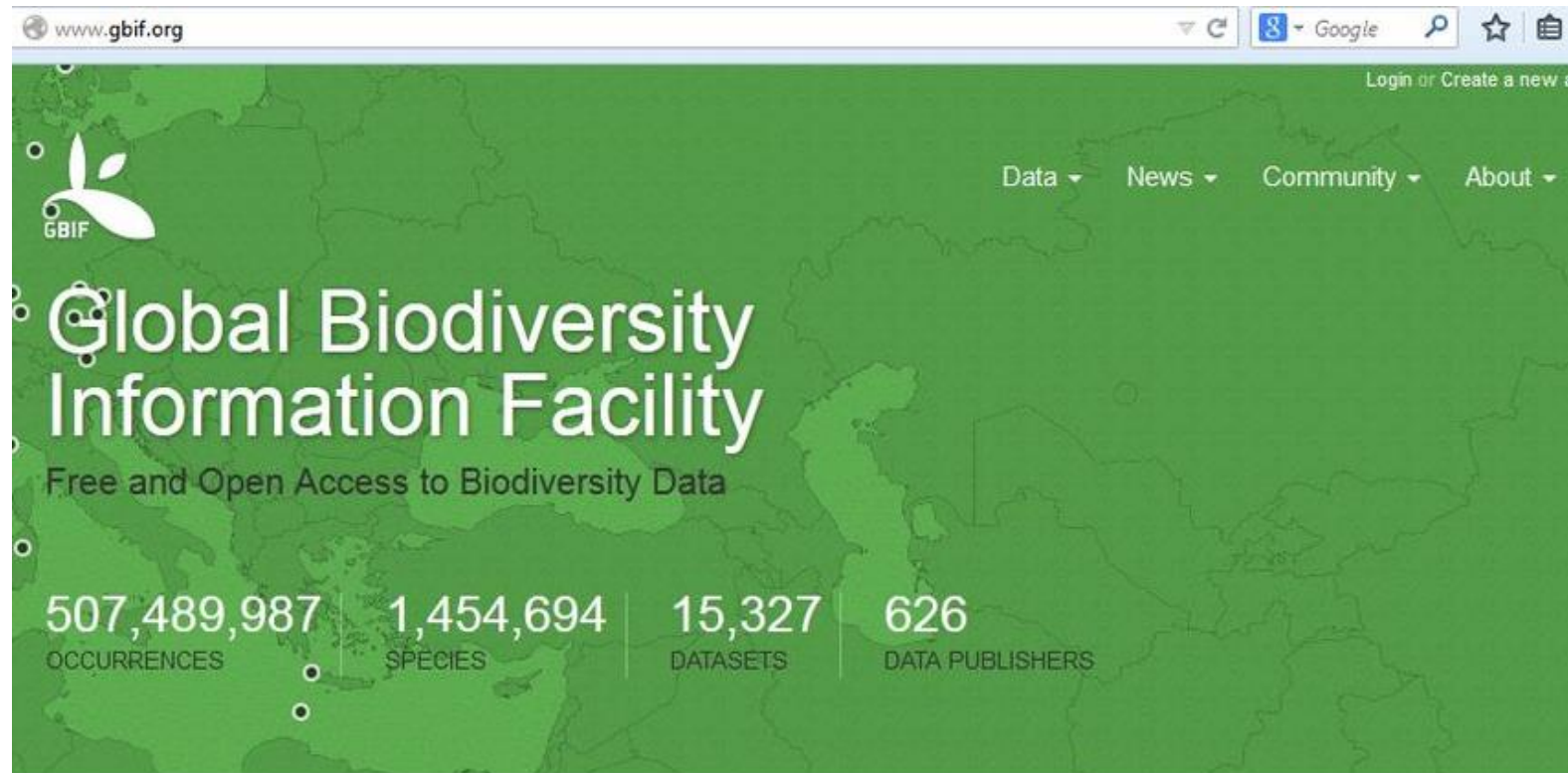


# Handling data from online databases



# GBIF



The screenshot shows the GBIF website homepage. The browser address bar displays 'www.gbif.org'. The page features a green background with a world map. The GBIF logo is in the top left. The main heading is 'Global Biodiversity Information Facility' with the tagline 'Free and Open Access to Biodiversity Data'. A navigation menu includes 'Data', 'News', 'Community', and 'About'. A statistics section displays four metrics: 507,489,987 OCCURRENCES, 1,454,694 SPECIES, 15,327 DATASETS, and 626 DATA PUBLISHERS. The top right corner has a 'Login or Create a new account' link.

www.gbif.org

GBIF

Global Biodiversity Information Facility

Free and Open Access to Biodiversity Data

507,489,987 OCCURRENCES

1,454,694 SPECIES

15,327 DATASETS

626 DATA PUBLISHERS

Login or Create a new account

Data News Community About

Sharing biodiversity  
data for re-use

[Learn about GBIF](#)  
[Publish your data through GBIF](#)  
[Technical infrastructure](#)

Providing evidence for  
research and decisions

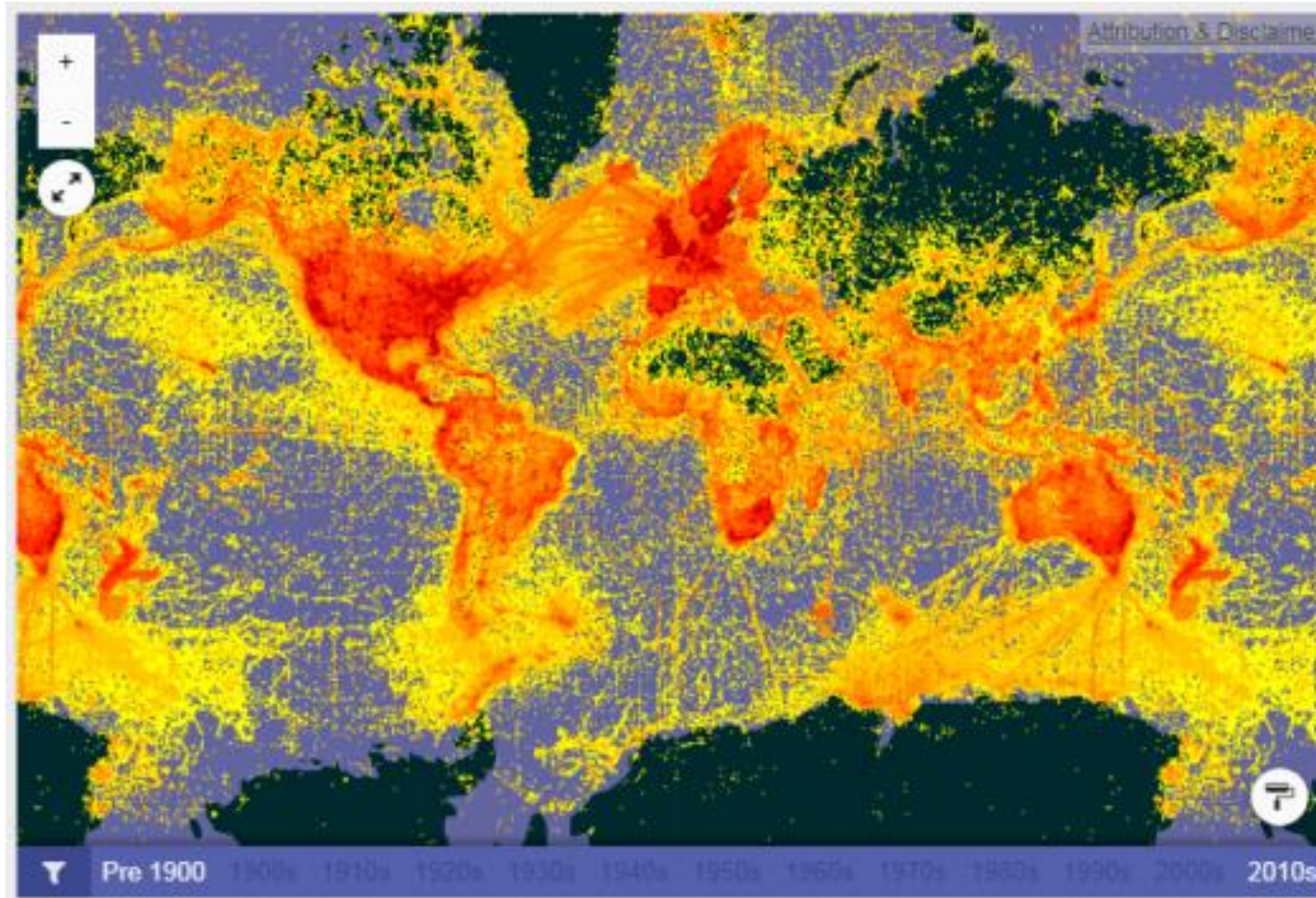
[Using data through GBIF](#)  
[Enabling biodiversity science](#)  
[Supporting global targets](#)

Collaborating as a  
global community

[Current Participants](#)  
[How GBIF is funded](#)  
[Enhancing capacity](#)



# Spatial patterns



## Georeferenced data

VIEW RECORDS

[All records](#) | [In viewable area](#)

### ABOUT

This map shows the density of all 709,833,516 georeferenced occurrence records published through the GBIF network.

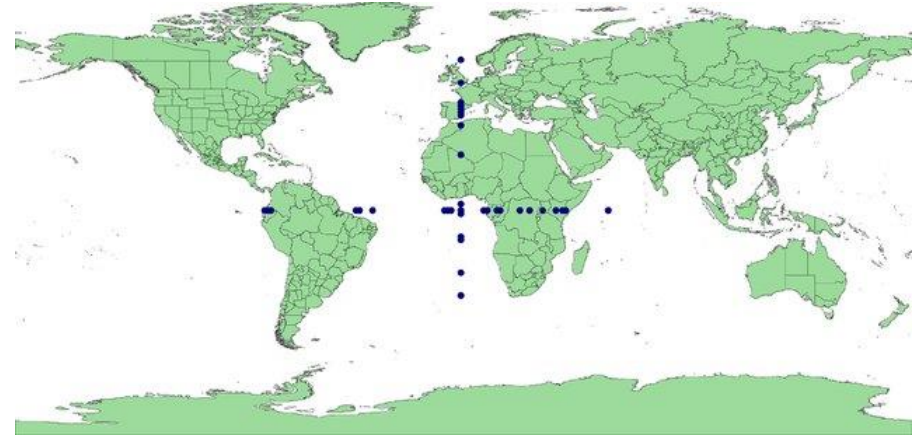
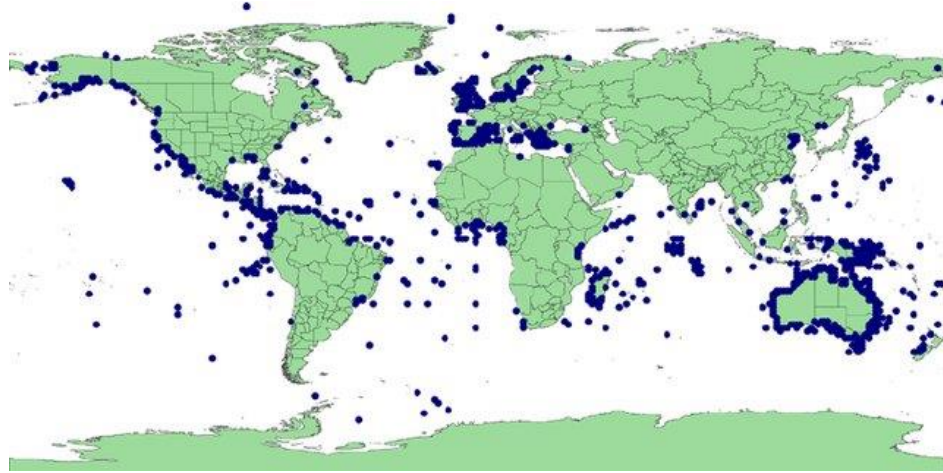
To explore the records, zoom into the map or click on the links above and add further filters to customize search results.

# Taxonomic patterns



<b>Taxon</b>	<b>Species</b>	<b>Records</b>
Animals	~1,500,000 (100%)	1,244,868,061 (100 %)
Chordates	~65,000 (4.3%)	1,083,205,366 (87 %)
Birds	~10,000 (0.67 %)	1,016,295,307 (82 %)
Anseriformes	~150 (0.01 %)	91,312,960 (7.3 %)
Canada goose	1	10,032,766 (0.81%)
Mammalia	~5,400 (0.36 %)	17,995,625 (1.44 %)

# Spatial error

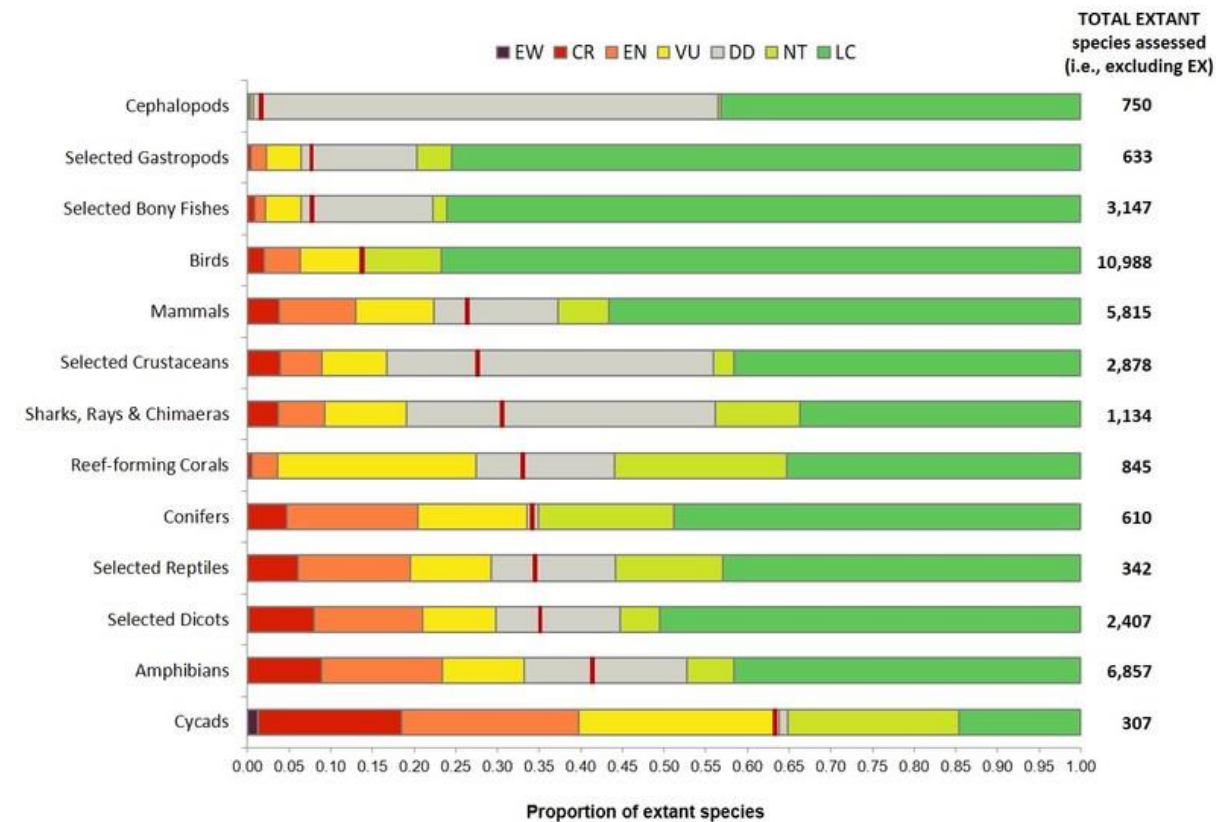
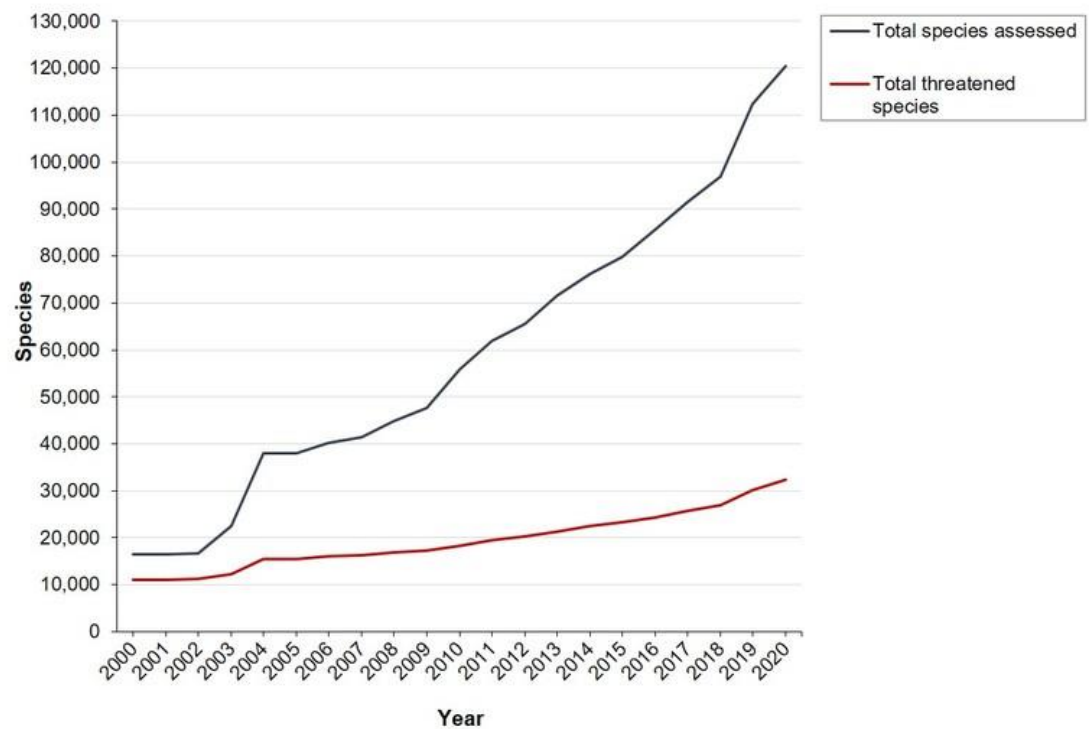


<https://doi.org/10.1371/journal.pone.0001124>

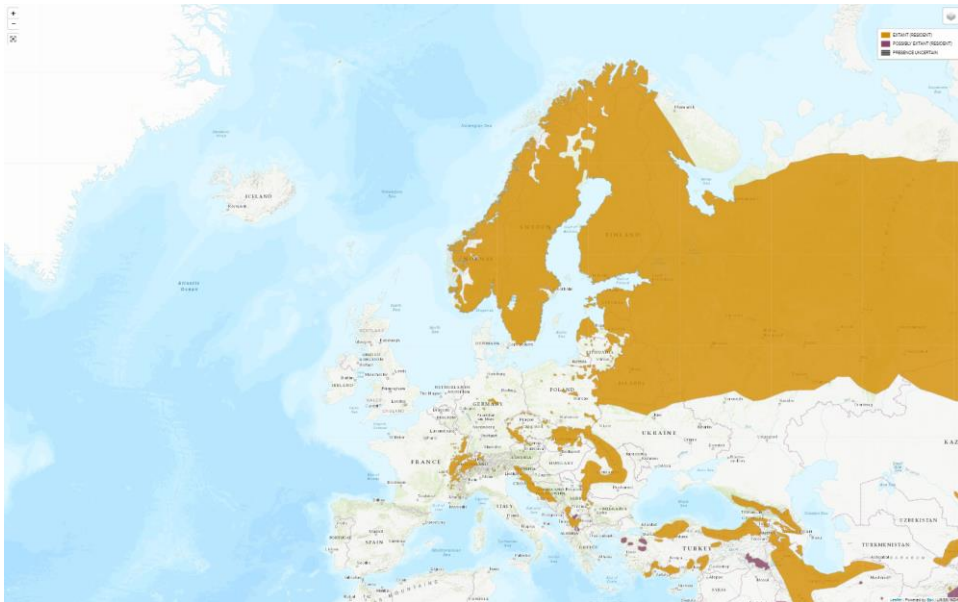




# Assessments



# Ranges

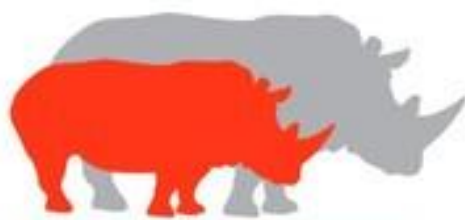




# Taxonomic patterns

Nature's backbone

**Vertebrates**



Assessment Goal 61,635

Species Assessed 52,649 (2020)

An estimated 99% of all organisms are

**Invertebrates**



Assessment Goal 45,344

Species Assessed 23,808 (2020)

The Earth's lungs

**Plants**



Assessment Goal 38,521

Species Assessed 43,557 (2020)

The most under-researched and under-funded

**Fungi and other species groups**



Assessment Goal 14,500

Species Assessed 358 (2020)

# Pros and cons

<b>GBIF</b>	<b>IUCN</b>
Points	Polygons
Very limited quality control	(Imperfect) quality control
Internally consistent taxonomy	Inconsistent taxonomy
Only data on selected taxa	(Some) data on most taxa