

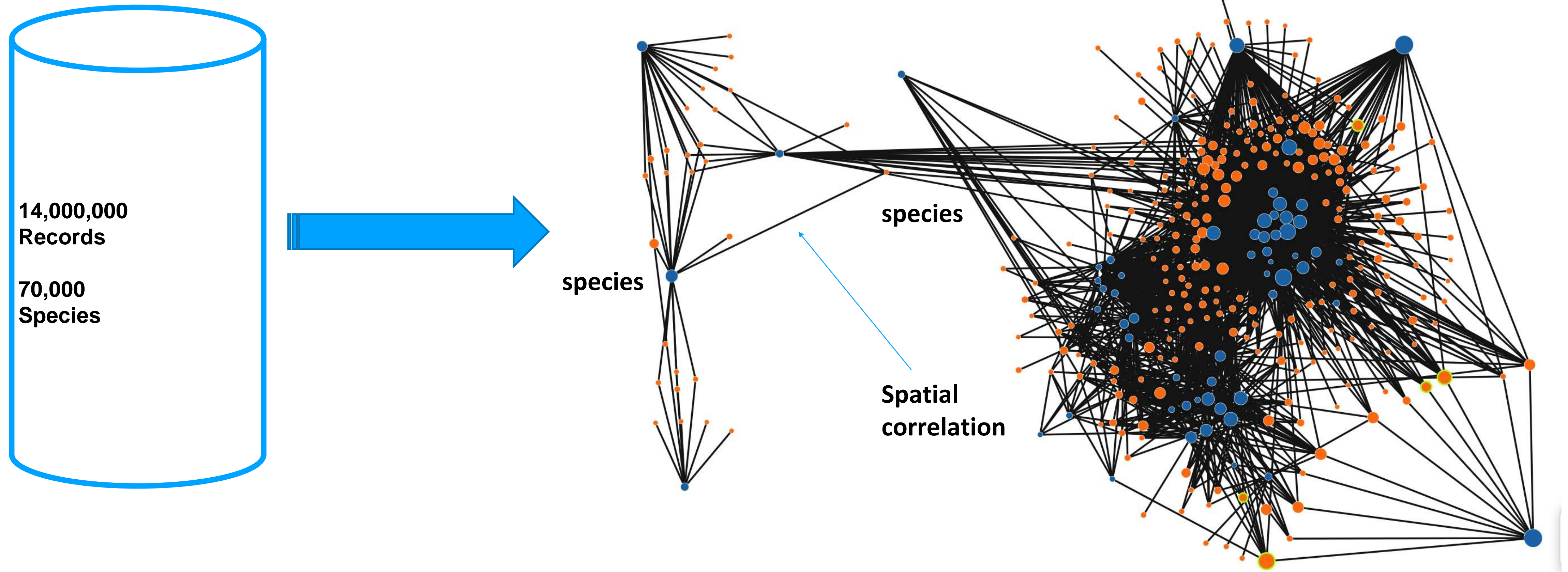


BIO  
DIVERSITY  
*NEXT*

# SPECIES: Supporting big-data-science

Raúl Sierra-Alcocer | National Commission for the  
Knowledge and Use of Biodiversity

## Explore species occurrence data from a new perspective





# Cinammon Hummingbird (*Amazilia rutila*)



**Creator:** Carlos Eduardo Simental Crespo

**Publisher:** iNaturalist

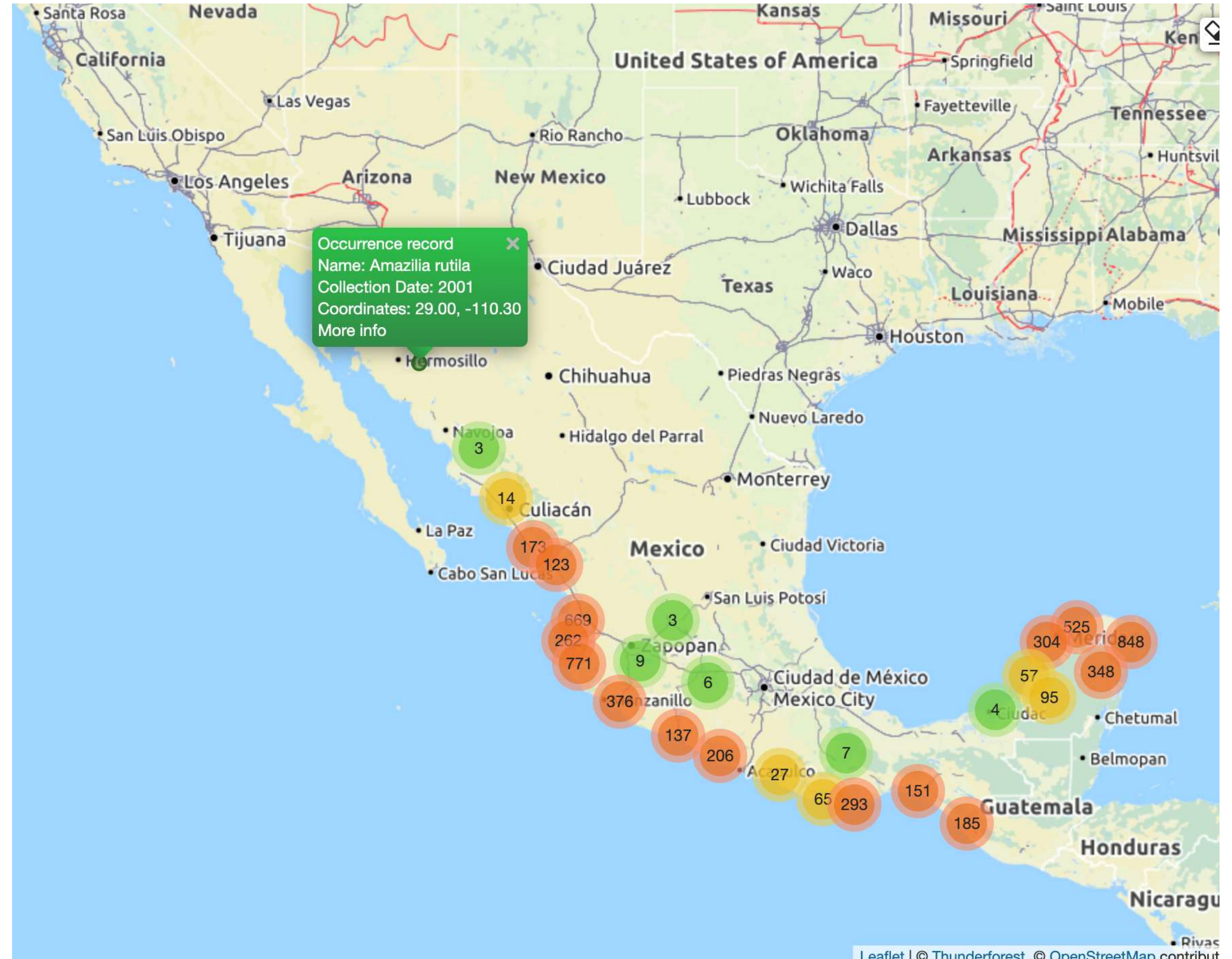
**Record license:** <http://creativecommons.org/licenses/by-nc/4.0/>

**References:** <https://www.inaturalist.org/photos/27553519>

**Created:** 2018-10-25T19:30:20.000+0000

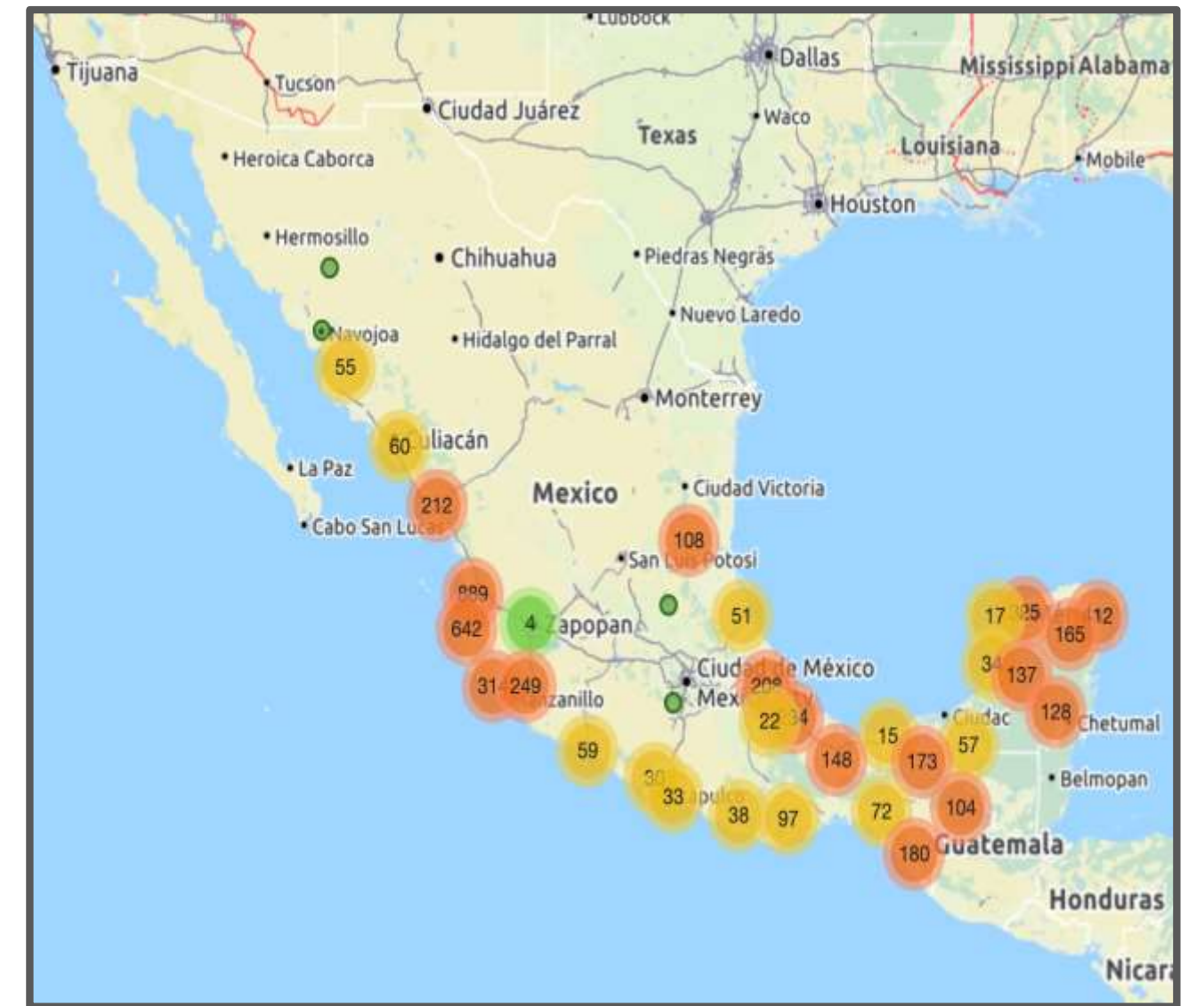
**Rights holder:** Carlos Eduardo Simental Crespo

**Identifier:** <https://static.inaturalist.org/photos/27553519.jpeg?1541123759>



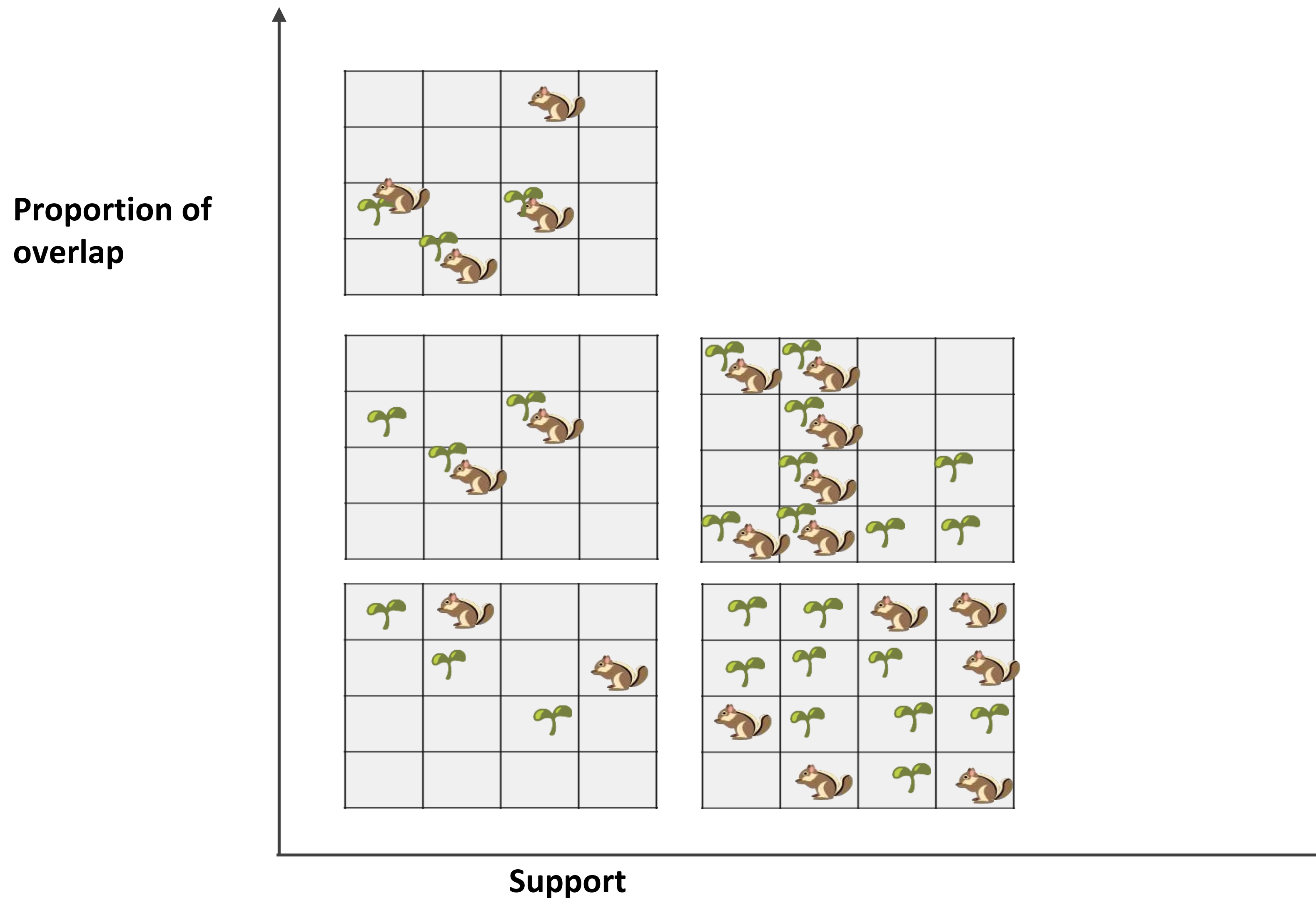


# SPECIES perspective: connections from distributions



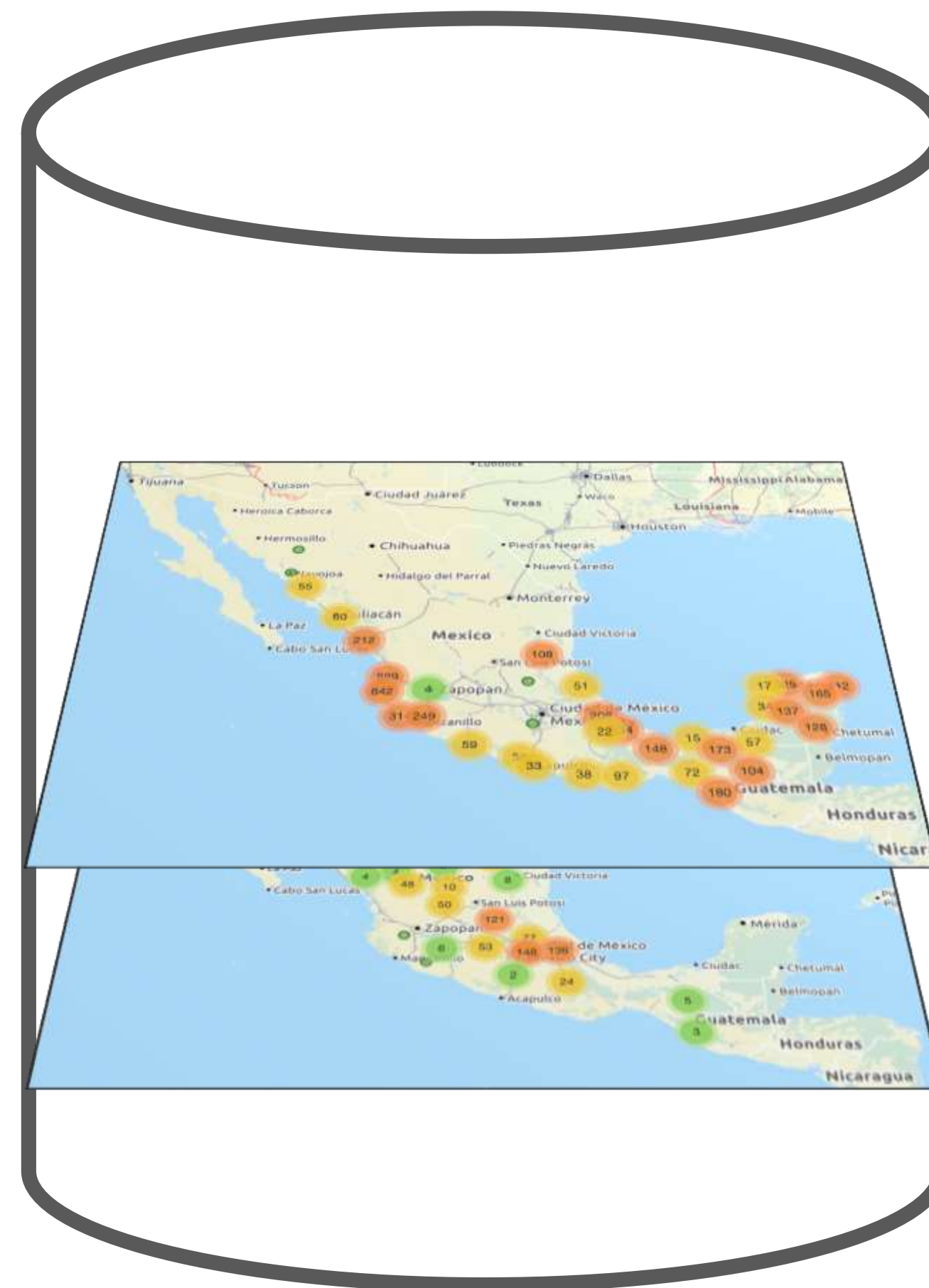


# SPECIES correlation measure: quantify the ratio of overlap and how well it is supported by the data





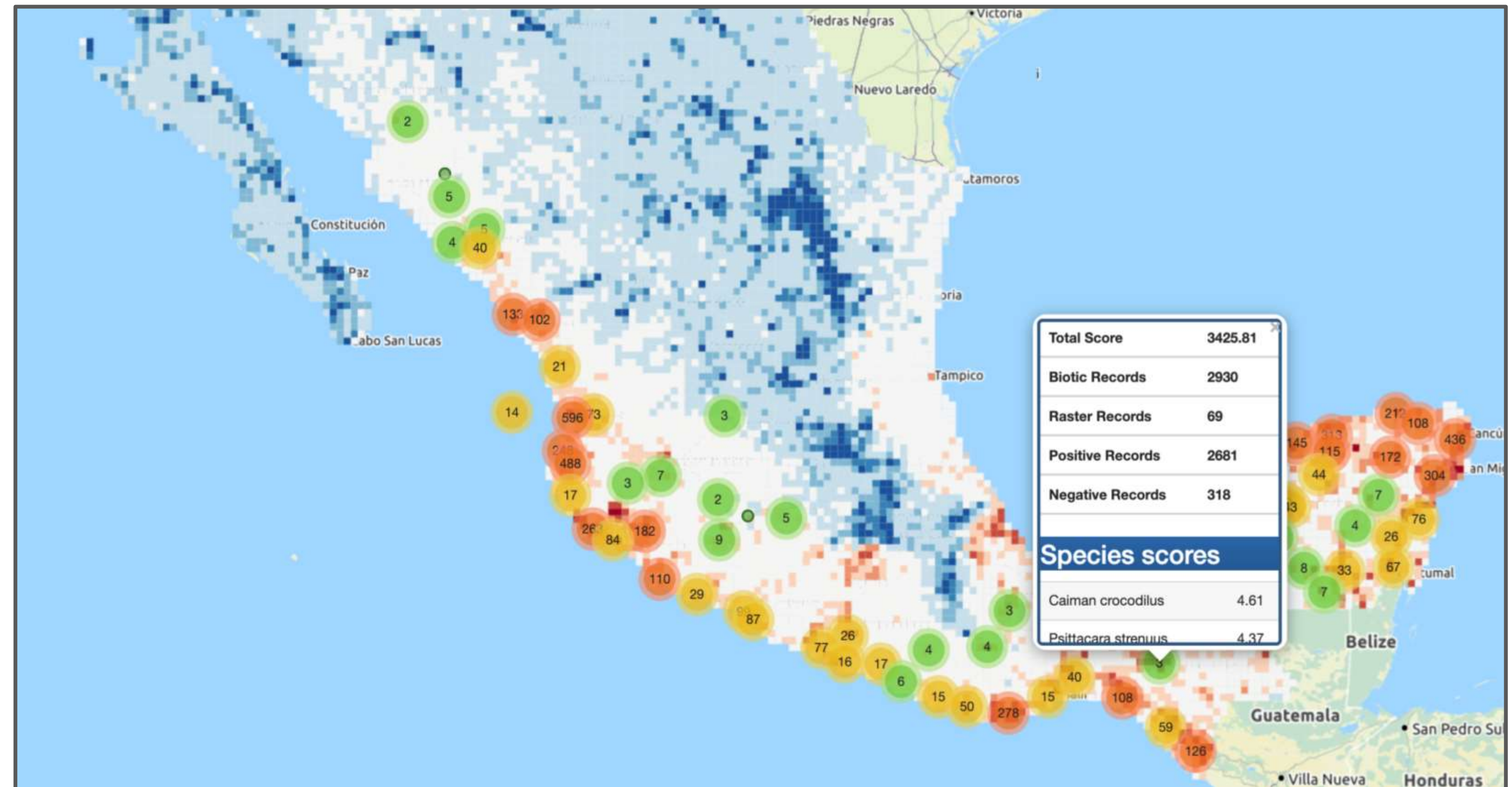
Explore species records  
w.r.t  
the relation of their  
distribution to a focal  
species







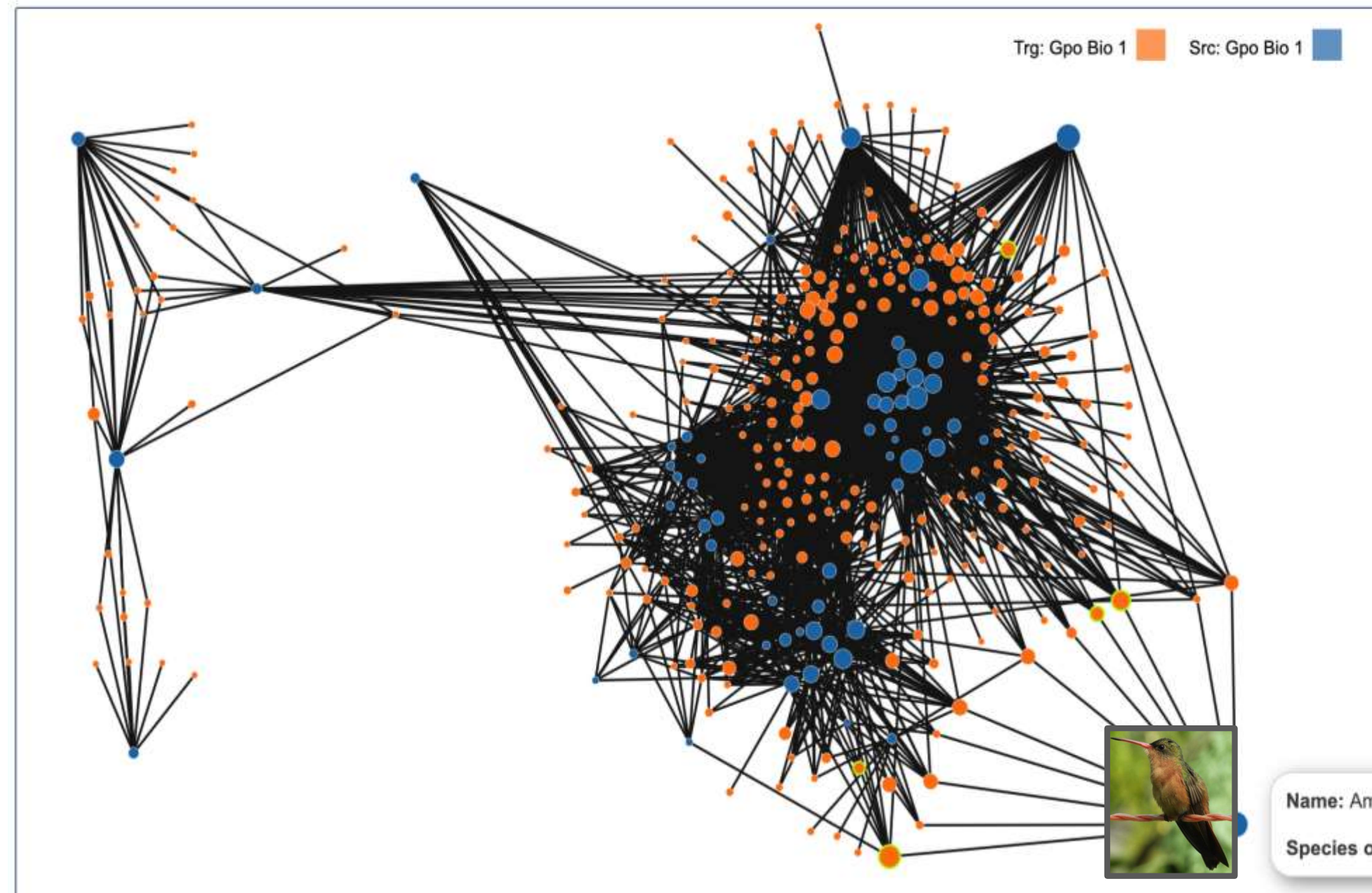
Use biodiversity records to rank locations w.r.t a focal species





## How do groups of species relate to one another

Hummingbirds



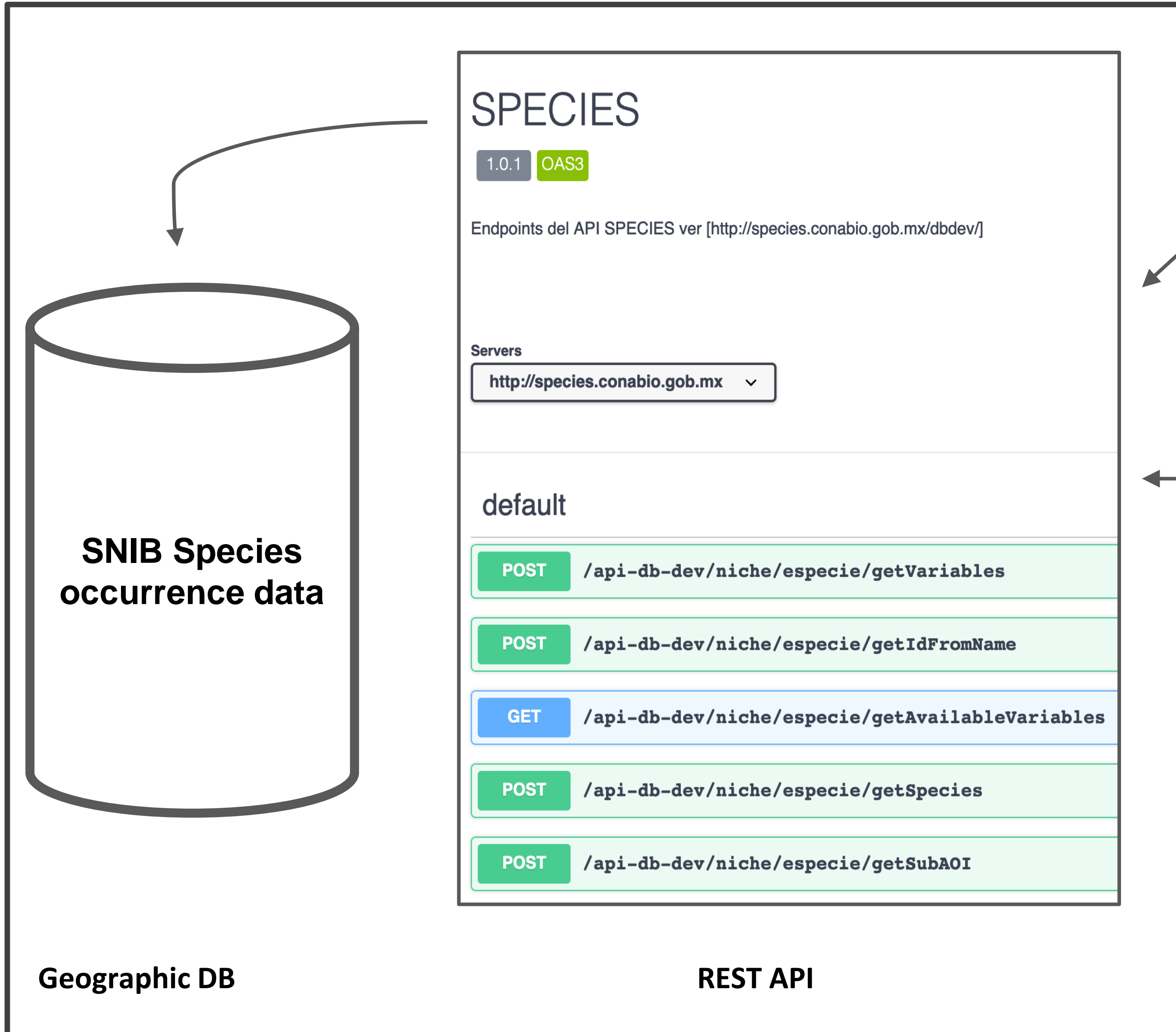
Topology

Lamiacea (plants like *Salvia* spp.)



Geography





## SPECIES

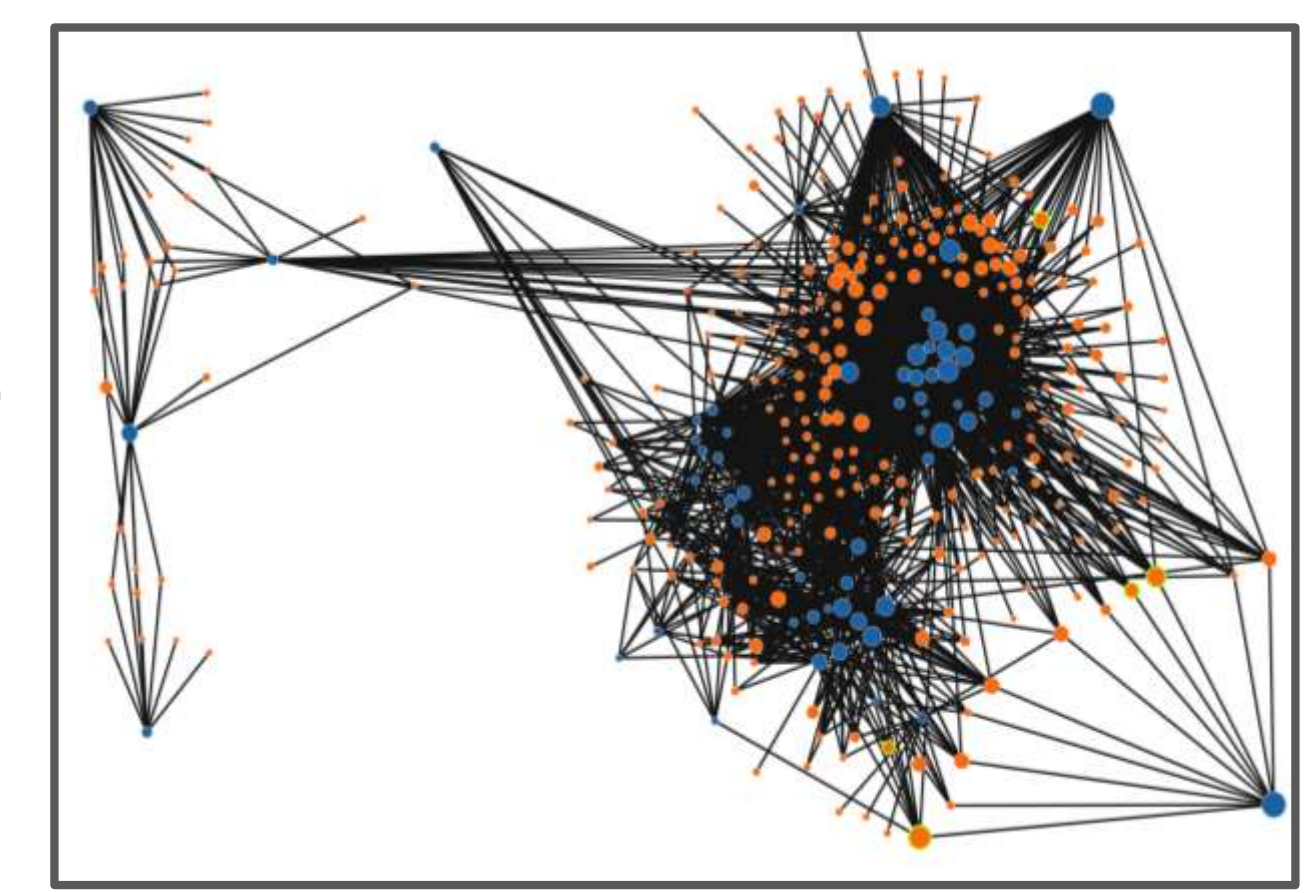
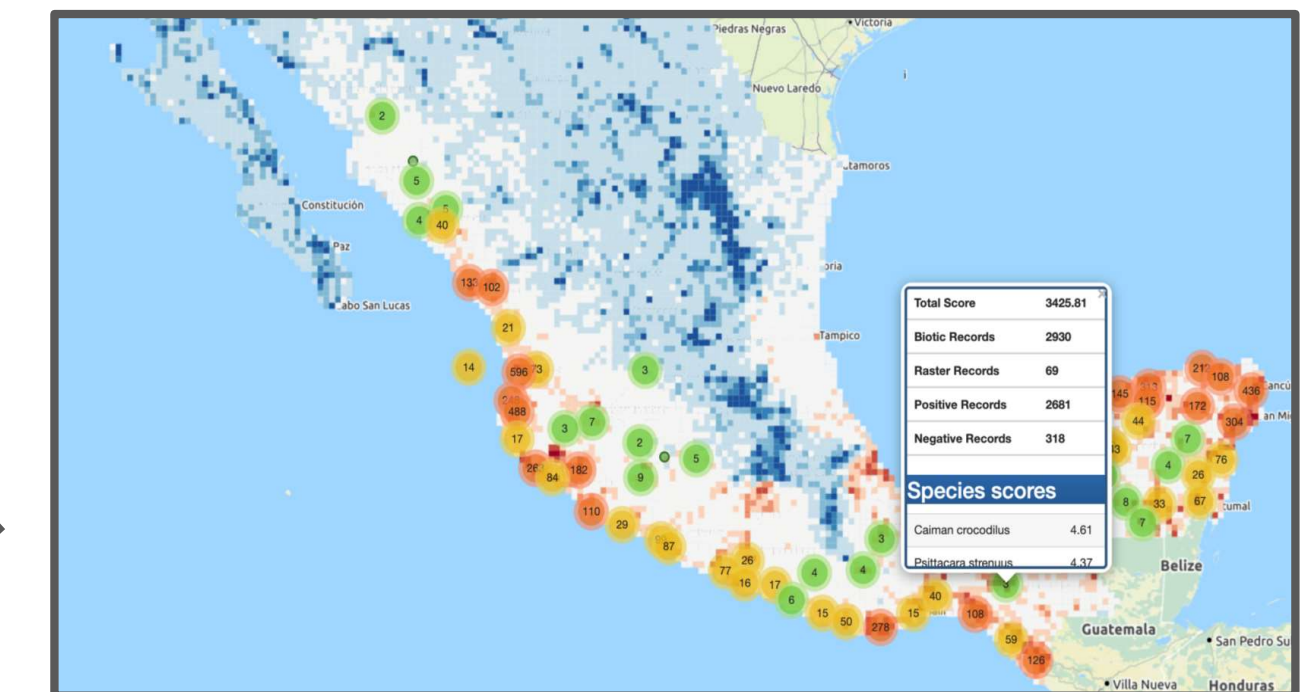
1.0.1 OAS3

Endpoints del API SPECIES ver [<http://species.conabio.gob.mx/dbdev/>]

Servers

default

- POST /api-db-dev/niche/especie/getVariables
- POST /api-db-dev/niche/especie/getIdFromName
- GET /api-db-dev/niche/especie/getAvailableVariables
- POST /api-db-dev/niche/especie/getSpecies
- POST /api-db-dev/niche/especie/getSubAOI



Client applications



### Taxa

Region:

MEXICO

Resolution:

16 km

Taxonomic

Taxon -



Filter by date: 1500 - Now

Data without date:  Yes

Fossils:  Yes

See species



Variable group

Parameters



## Source group

Taxonomic Raster

Taxon

Kingdom  
Phylum  
Class  
Order  
Family  
Genus  
Species



## Target group

Taxonomic Raster

Taxon



Min. no. cells with presence  
(n):

5

Resolution:

16 km

Region:

MEXICO

Generate Net

Report error