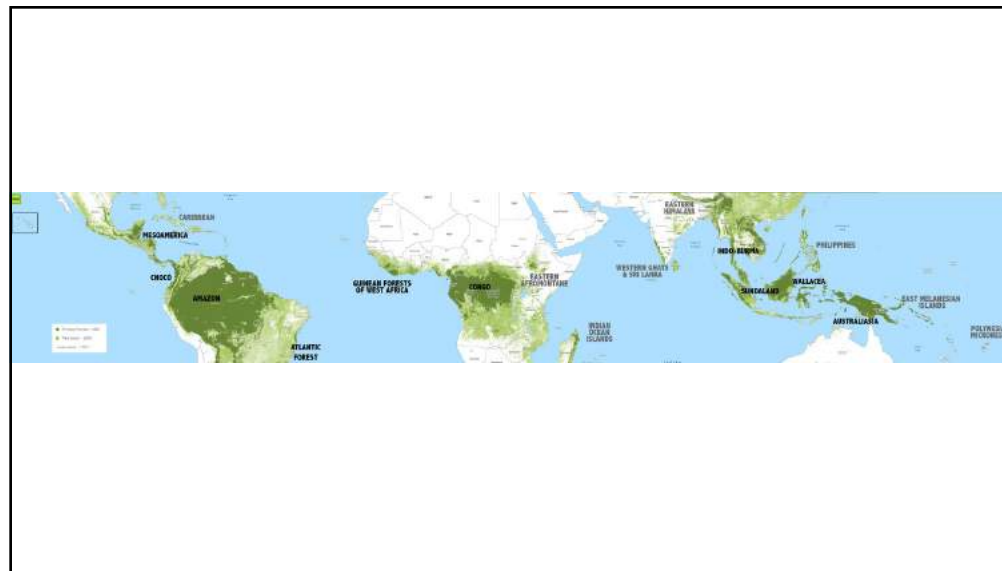


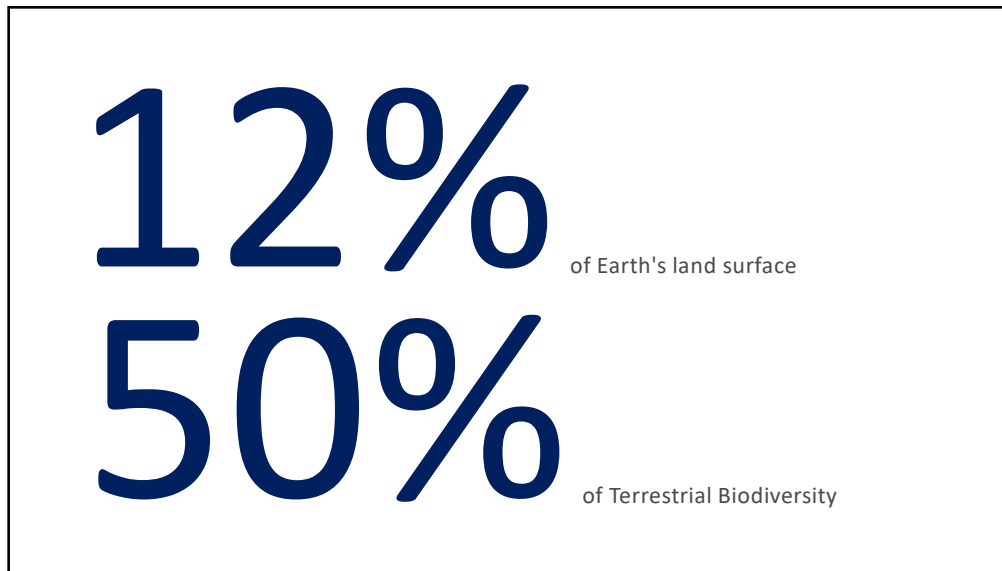
1



2



3



4

# How many species are there on Earth?

5

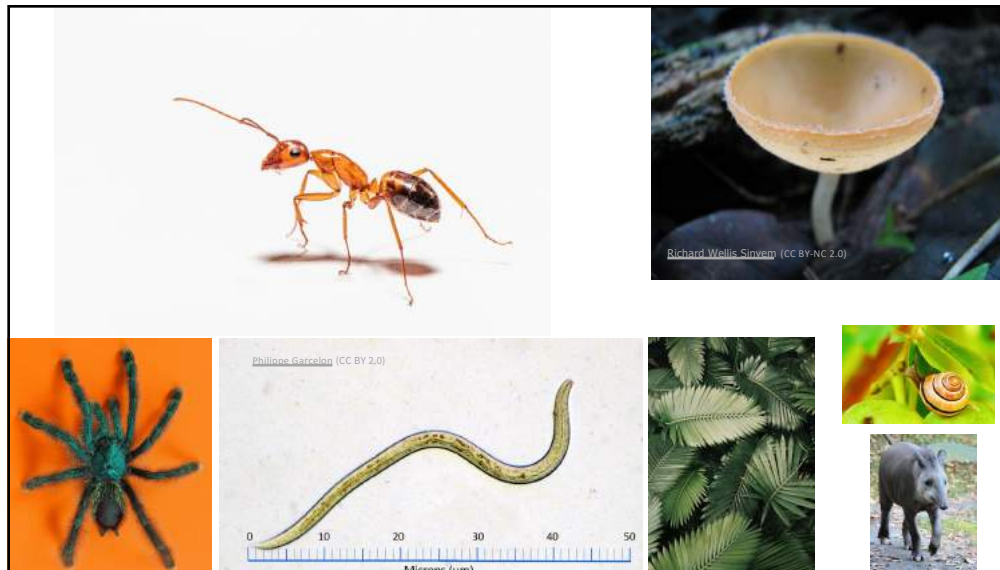


**8.7 million  $\pm$  1.3 million SE**  
 (2.2 million  $\pm$  0.18 million SE of these are marine)  
*Mora et al 2011 Plos Bio*

6

# What are they?

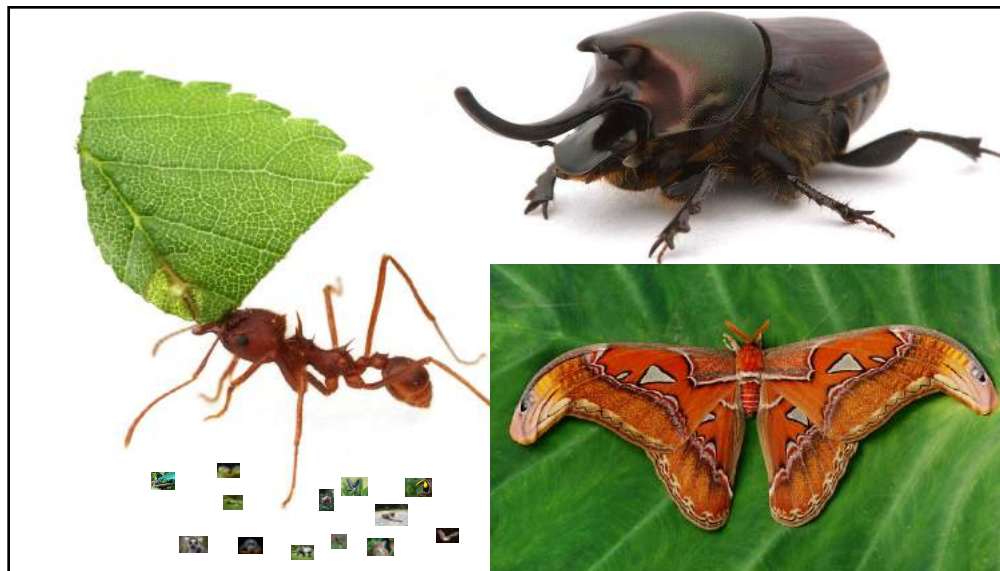
7



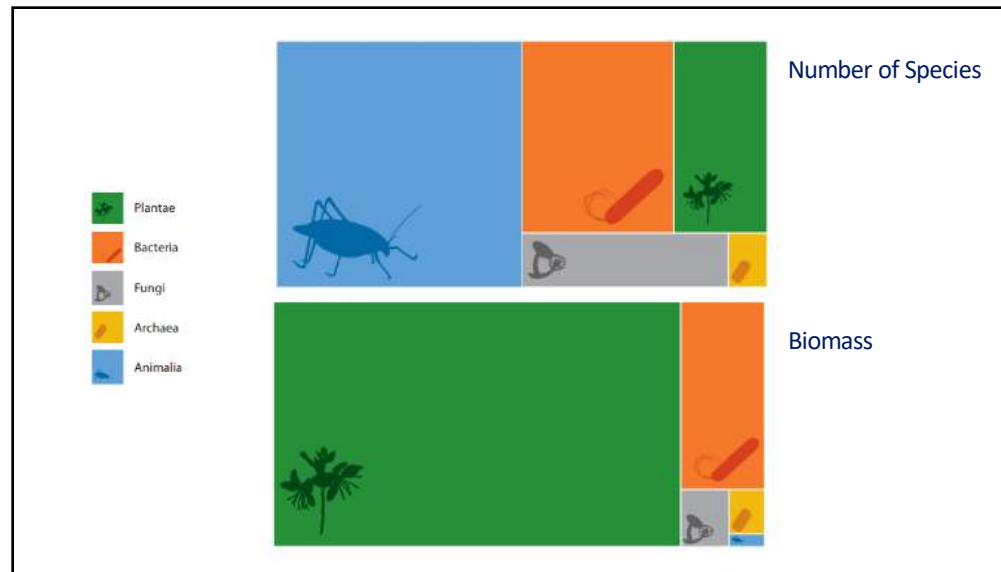
8



9



10



11

*Where are they?*

12

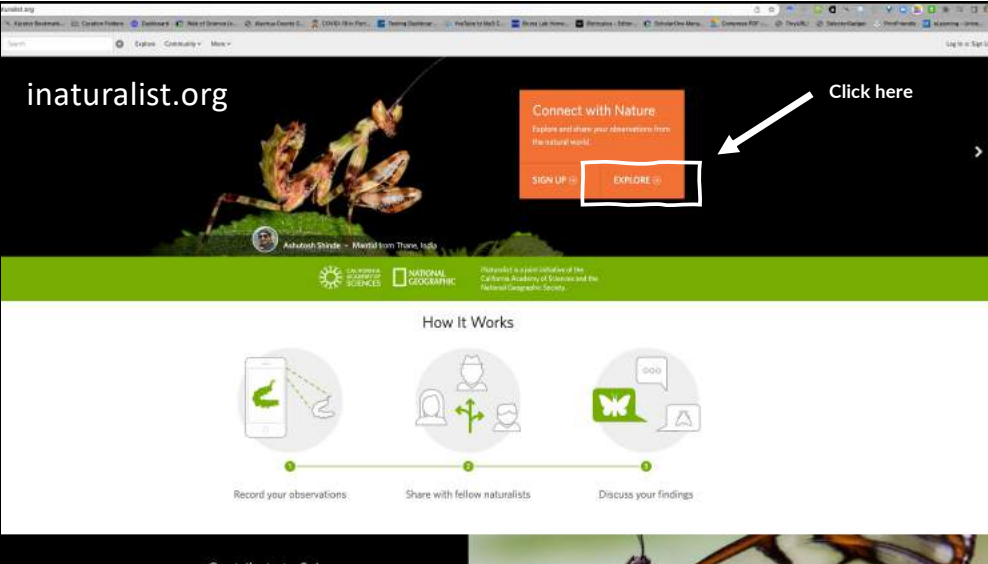


- Juneau, AK, USA
- Winnipeg, CA
- Buffalo, NY, USA
- Cedar Rapids, IA, USA
- Nashville, TN, USA
- El Paso, TX, USA
- Gainesville, FL, USA
- Monterrey, MEX
- Cuernavaca, MEX
- Heredia Province, Costa Rica
- Gamboa, Panama
- Medellin, Colombia
- Manaus, Brazil
- Rio Branco, Brazil
- Cuiabá, Brazil
- Rio de Janeiro, Brazil
- Curitiba, Brazil
- Rosario, Argentina
- Montevideo, Uruguay
- Valdivia, Chile
- Torres del Paine, Chile
- Punta Arenas Chile



<https://www.inaturalist.org/>

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inaturalist.org

Connect with Nature  
Explore and share your observations from the natural world

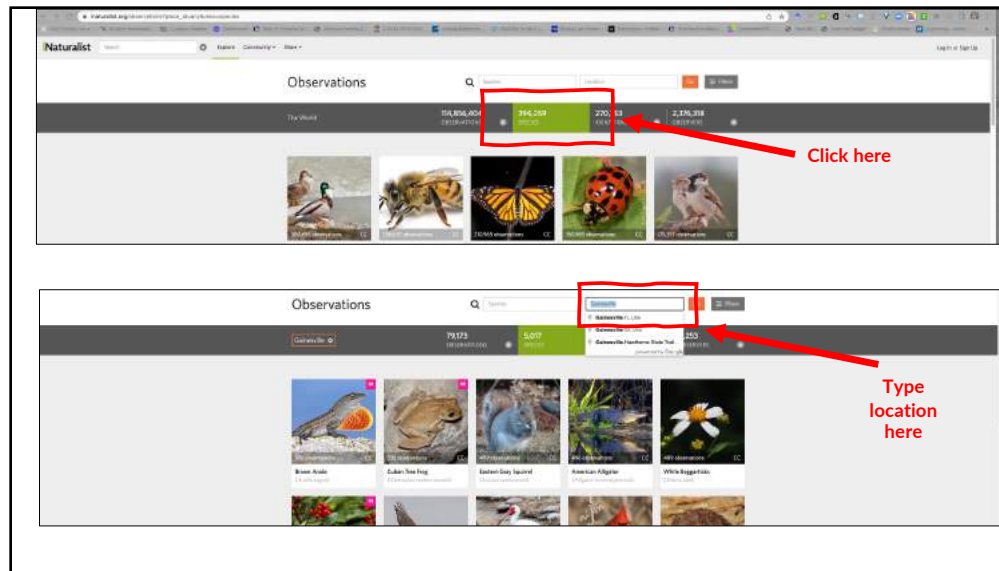
SIGN UP EXPLORE

Click here

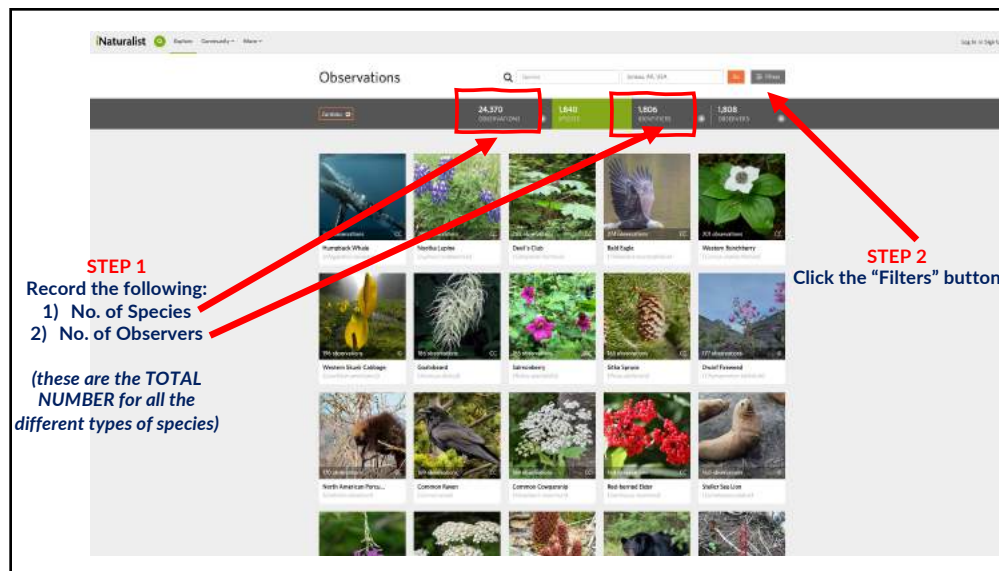
How It Works

Record your observations Share with fellow naturalists Discuss your findings

14

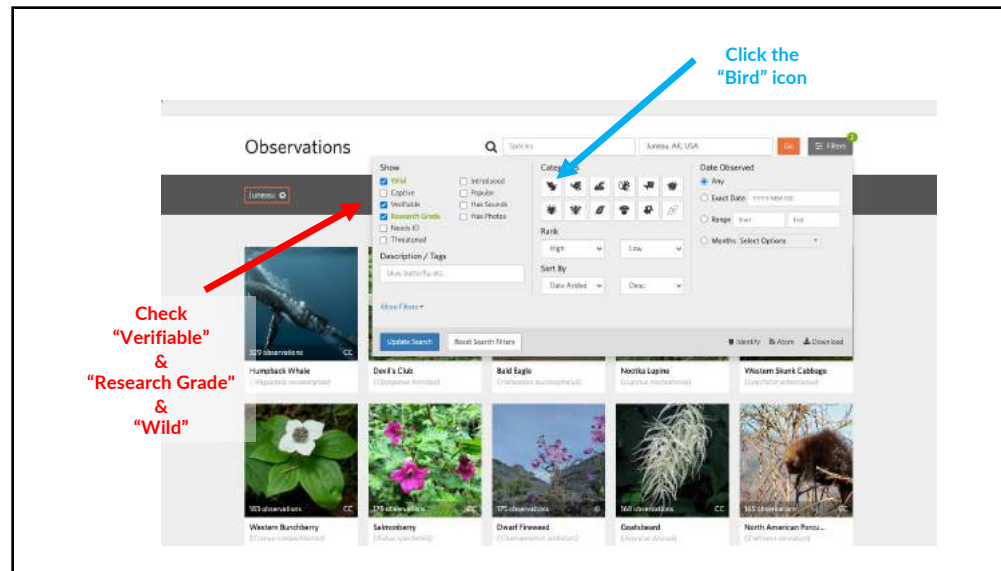


15

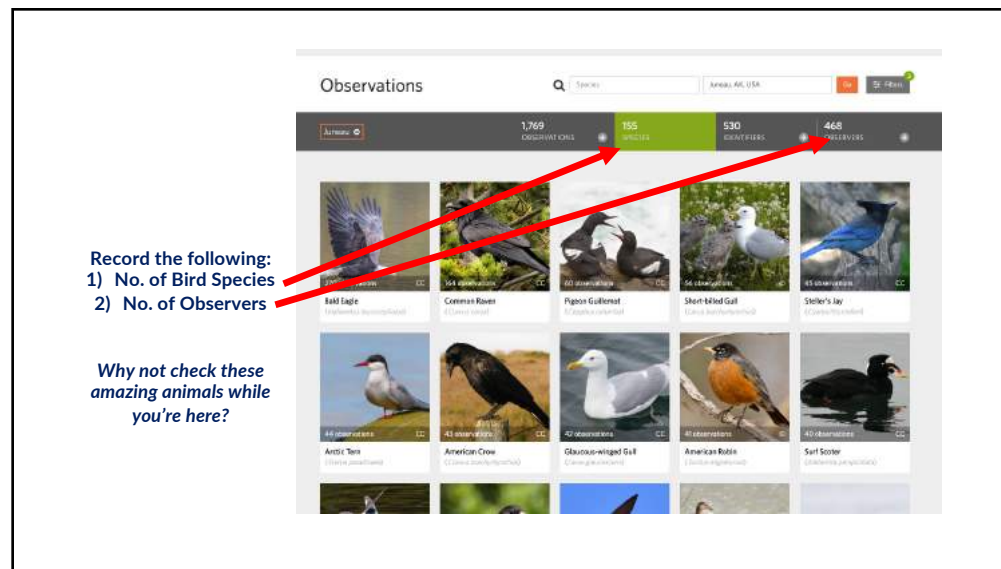


16





17



18

Uncheck "Birds" and repeat with "Amphibians" AND "Reptiles"....

Keep "Verifiable" & "Research Grade" & "Wild" Checked.

...then Repeat with "Mammals"

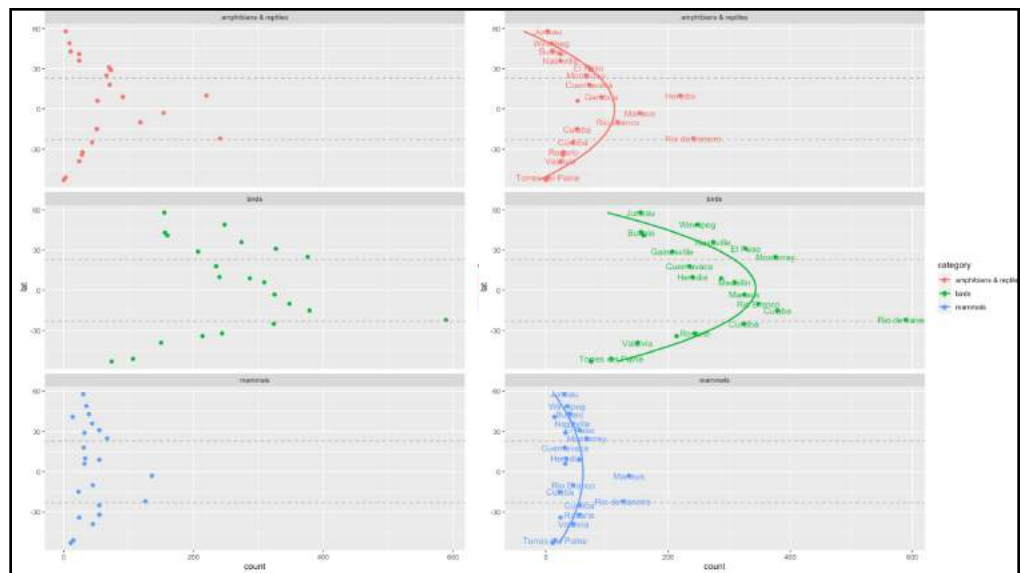
19

Record the following:  
 1) No. of Species  
 2) No. of Observers  
 (these are the TOTAL NUMBER for all the different types of species)

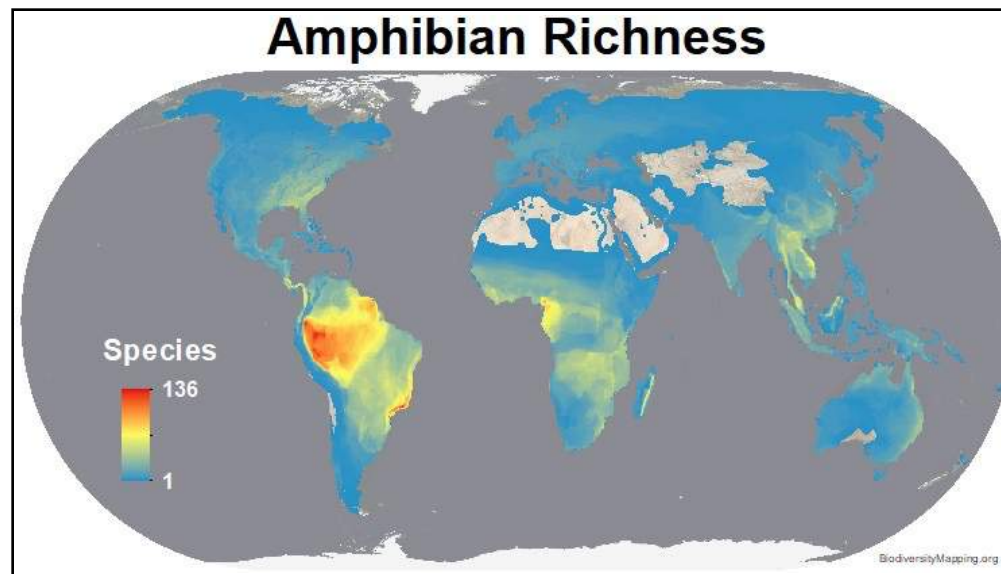
20

<https://forms.gle/cZBJQ3n4FoVPYCL4A>

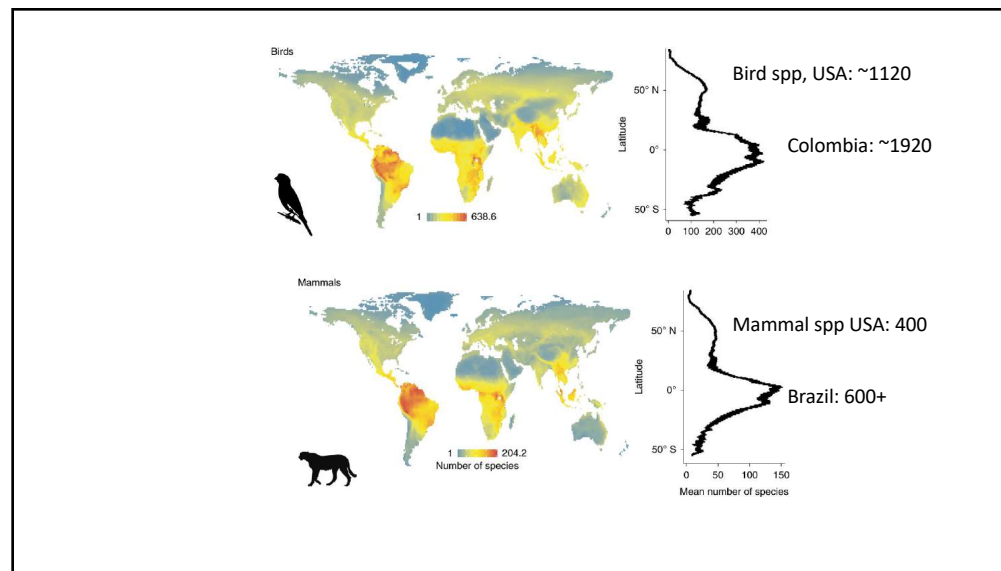
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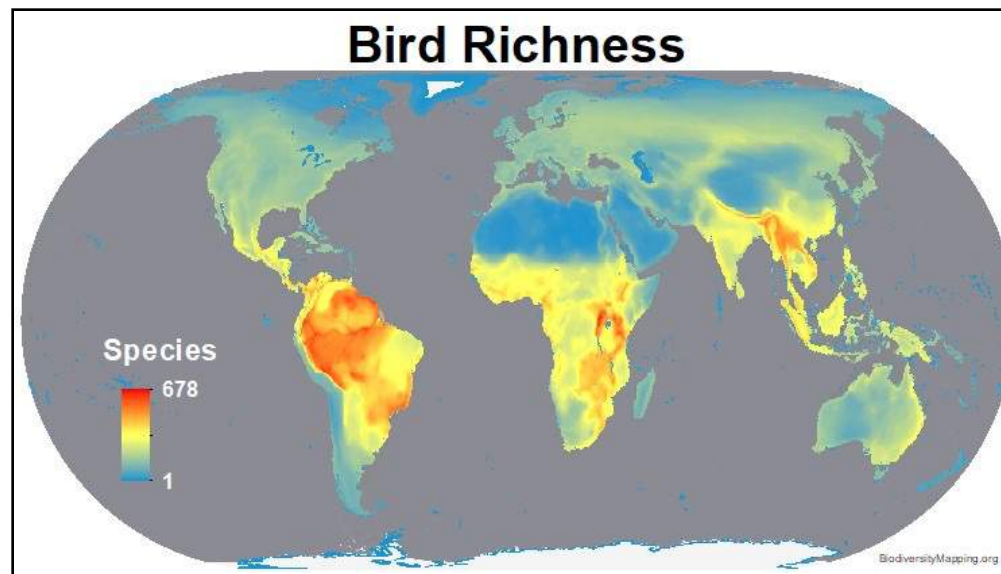
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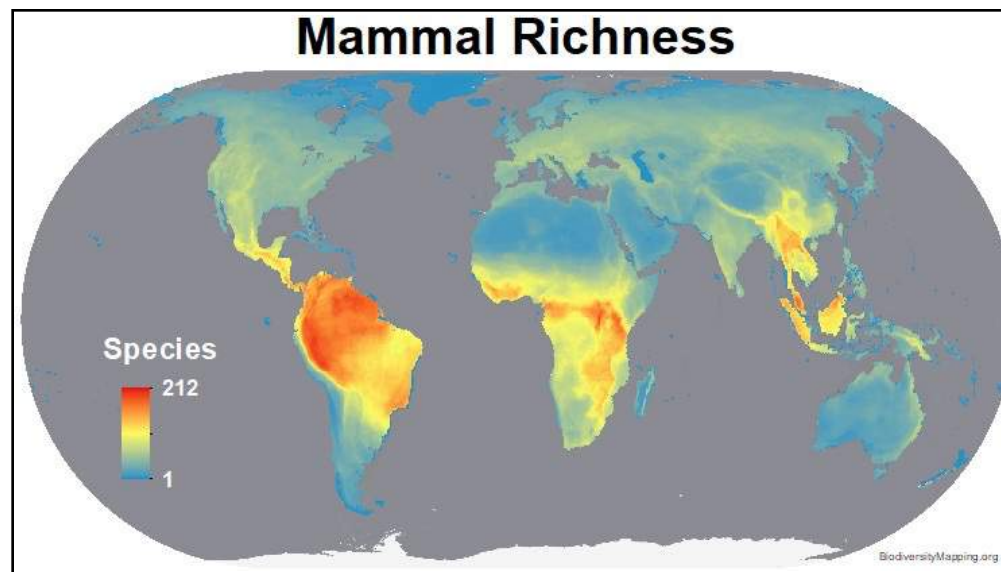
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24



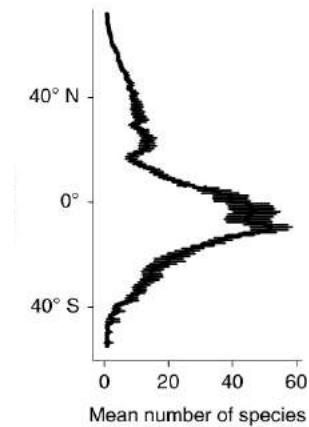
25



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Fundamental Biodiversity Pattern #1:

# Latitudinal Diversity Gradient



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Fundamental Biodiversity Pattern #2:

## Next time.

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