

Downloading species range maps from IUCN

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Overview

This is a very small tutorial to access to International Union for Conservation of Nature (IUCN) range maps of species directly from IUCN Red List of threatened species portal <https://www.iucnredlist.org>.

This is part of the activities within a National Science Foundation (NSF) project awarded to professor Lisa Barrow, the project is named *Determinants of amphibian genomic diversity: Integrating traits, phylogeny and geography*.

I have designed some steps to follow:

Steps

1. Login in to IUCN Red List portal 'https://www.iucnredlist.org/users/sign_in' to access range maps of amphibian species (Figure 1).

You can login with my email address = amadoroyola@gmail.com and using the password = amphibia2022.

2. Once logged in we can start to search for species information on the IUCN Red List portal writing the scientific name of a species (e.g. *Allobates brunneus*) (Figure 2).
3. In this step we can see important information of the species of interest, such as the common name, the name of the authors who did the Red List Assessment, and its conservation status, in this case *Allobates brunneus* is categorized as Leas Concern (LC) (Figure 3).

Here is important to collect some information in this step. We can create a matrix in Excel with two variables collected from this step, the scientific name “species” and the conservation status “IUCN” (Table 1).

Table 1 . Amphibians species and their conservation status according to IUCN.

species	IUCN
<i>Allobates brunneus</i>	LC
...	...

4. The next step is do click in ‘Download’ and choose the option ‘Range data - Polygons (SHP)’ (Figure 4).

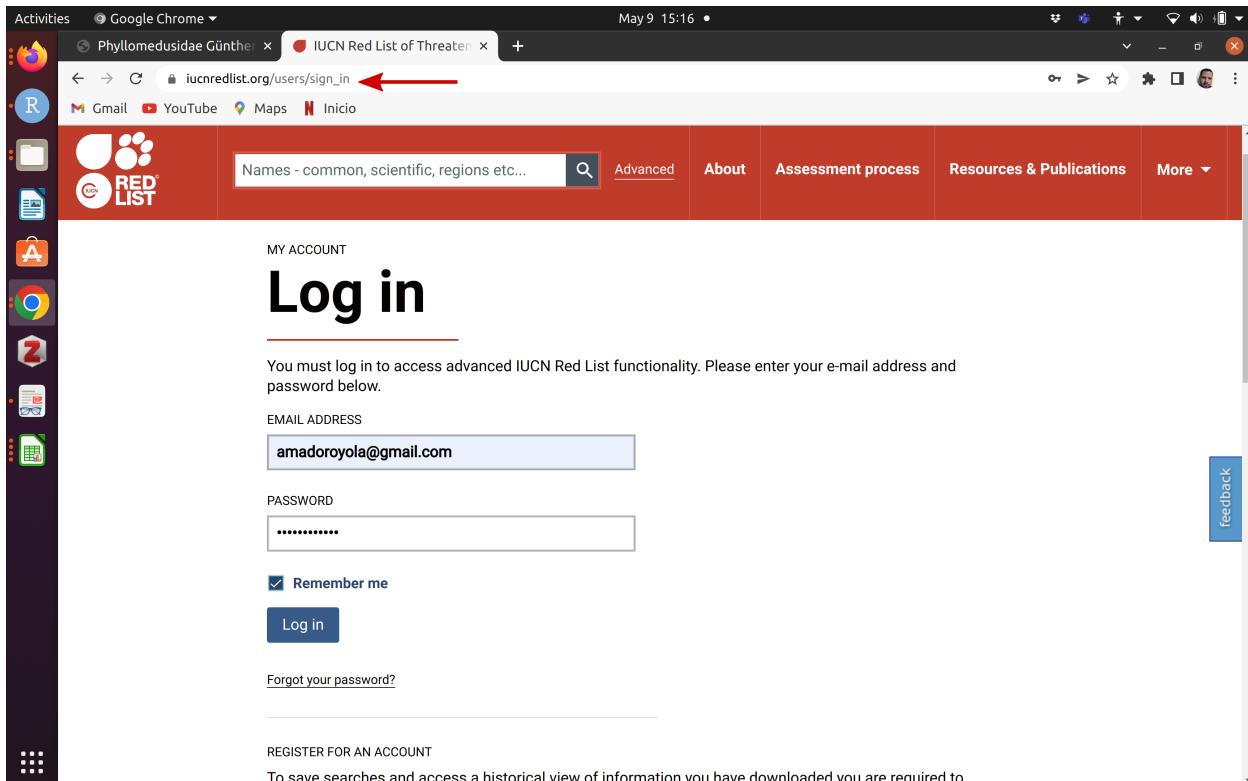


Figure 1: Log in to IUCN red list portal to access the species range maps.

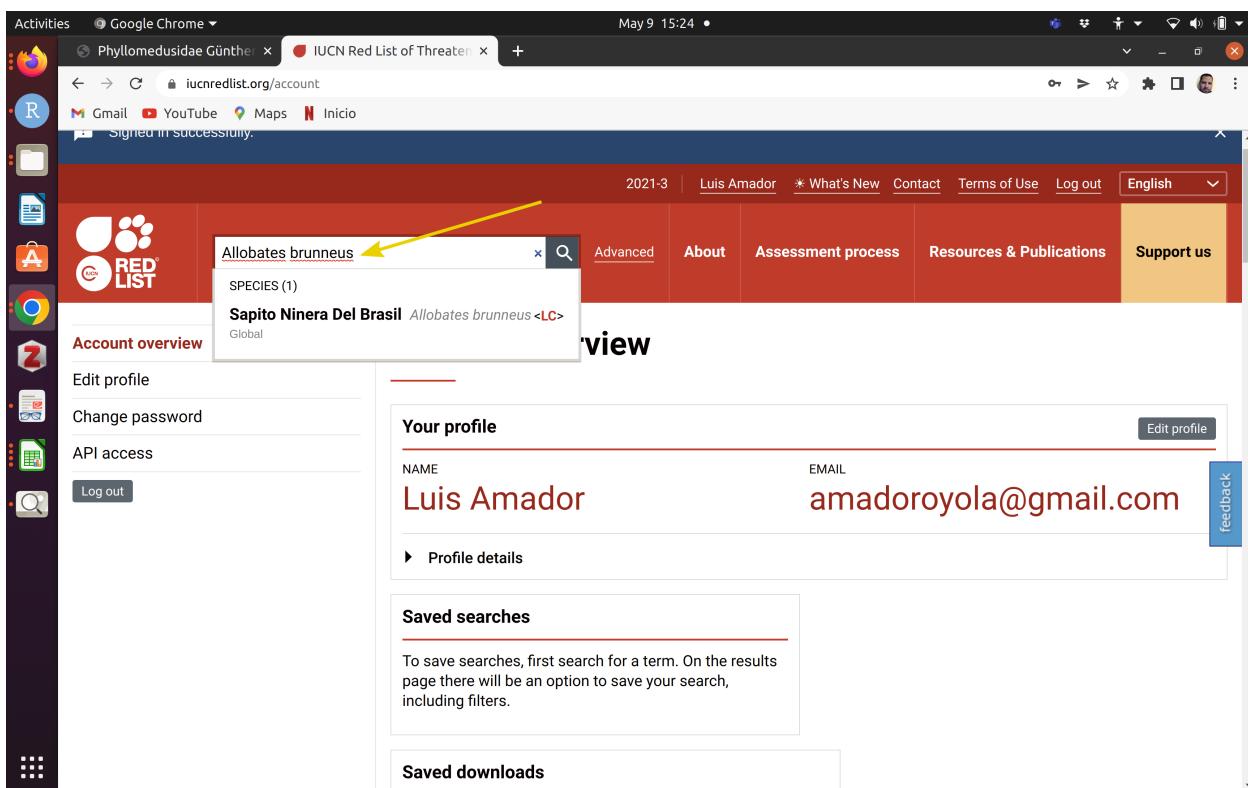


Figure 2: What the screen looks like when logged in.

Activities Google Chrome • May 9 15:24 •

Phylomedusidae Günther x Allobates brunneus (Sapit) x +

iucnredlist.org/species/55059/11233688

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Sapito Ninera Del Brasil

Allobates brunneus

ABSTRACT

Sapito Ninera Del Brasil *Allobates brunneus* has most recently been assessed for *The IUCN Red List of Threatened Species* in 2004. *Allobates brunneus* is listed as Least Concern.

THE RED LIST ASSESSMENT

Débora Silvano, Enrique La Marca, Steffen Reichle. 2004. *Allobates brunneus*. *The IUCN Red List of Threatened Species* 20...

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Figure 3: First details of our searching about species information.

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Phylomedusidae Günther x Allobates brunneus (Sapit) x +

iucnredlist.org/species/55059/11233688

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AVAILABLE FILES

[Assessment \(PDF\)](#)
[Range data - Polygons \(SHP\)](#)
[Range map \(JPG\)](#)

https://www.iucnredlist.org/species/55059/11233688#

Figure 4: Downloading the range data in shapefile format.

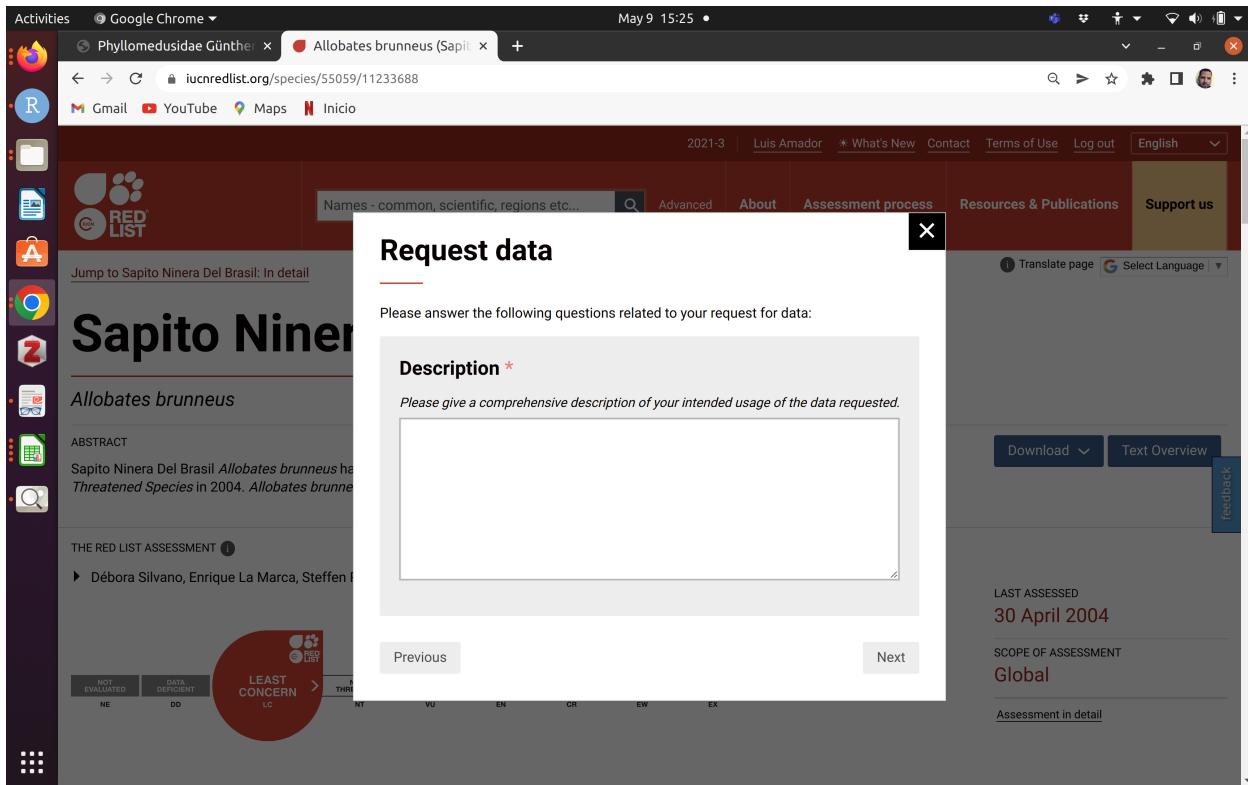


Figure 5: Answering to IUCN about our intent usage of the data requested.

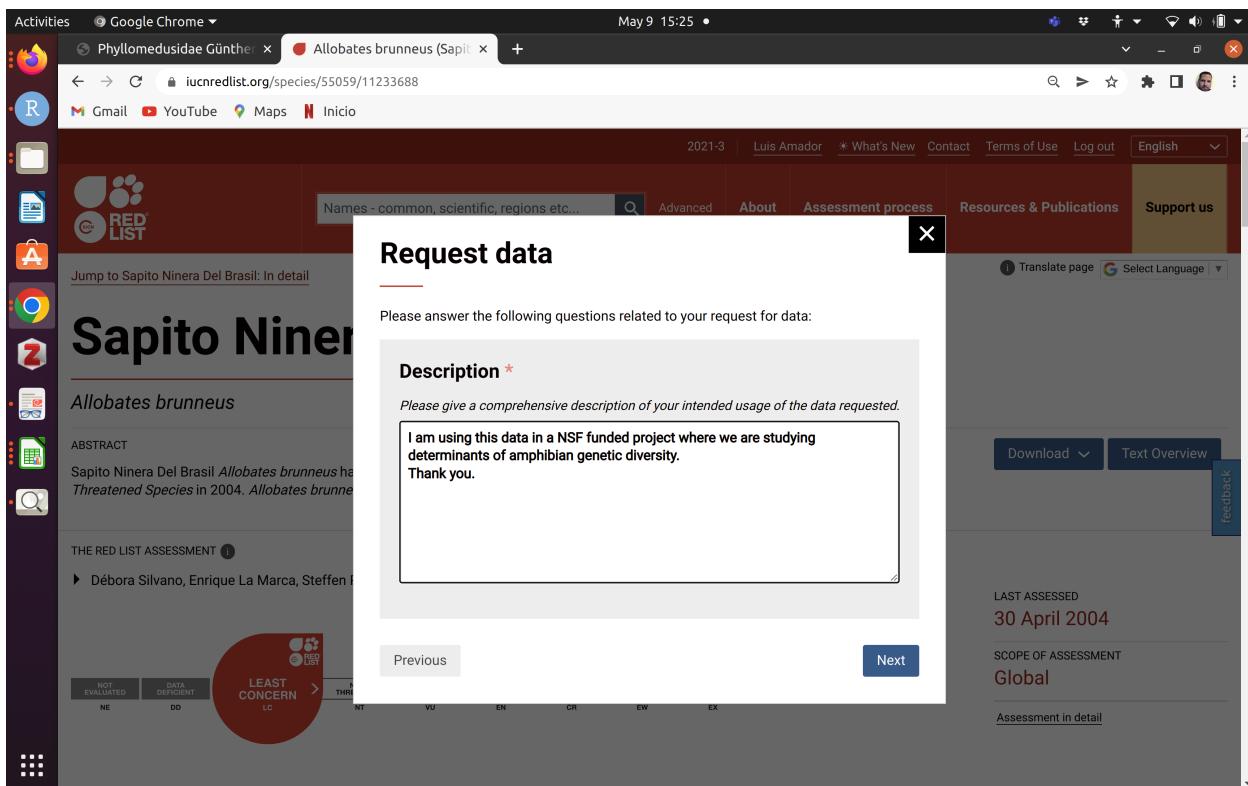


Figure 6: Answering to IUCN about our intent usage of the data requested.

5. Before the download start, IUCN asks about the intended usage of the data requested. We can quickly answer the question with this: “We are using this data in an NSF project where we are studying determinants of amphibian genetic diversity. Thank you.” (Figure 5).

6. Click on ‘Next’ button (Figure 6).

7. New question from IUCN. Now we have to click in ‘Yes’ since our requested is to be used for academic, research and educational proposes (Figure 7).

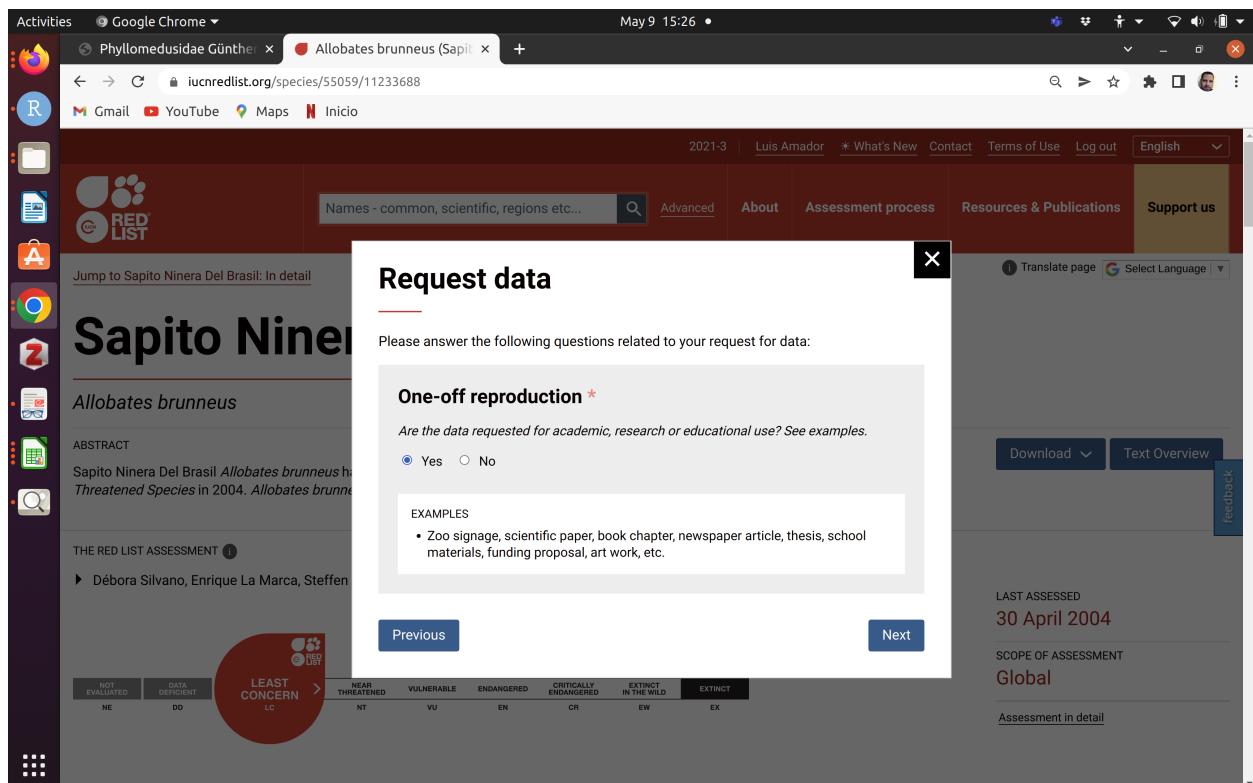


Figure 7: Answering YES to IUCN because we are using the data requested in a research project.

8. Agree the terms of use (marking the check box)and finishing the request for data (click in the ‘Finish’ button) (Figure 8).
9. Now is time to go back to our main account page to see all our downloads by clicking in ‘Go to account page’ button (Figure 9).
10. Now in the account page we can see all the saved downloads organized from the recent to the oldest (Figure 10).

Here is not necessary to do click in ‘Download’ because a link to download the information is sent to my email, in addition the information remains saved and could be downloaded at any time.

Request data

Please answer the following questions related to your request for data:

Terms of Use *

I agree to the [Terms of Use](#), except where otherwise answered above and as expressed in writing by IUCN, for the information obtained from the IUCN Red List. My answers above accurately reflect my use of the data I am requesting from the IUCN Red List.

Your use is pre-authorised. Please ensure that the proper attribution is provided as indicated in the metadata.

For any publications making substantial use of the data, IUCN and its partners welcome the opportunity for collaboration and possible co-authorship, and to comment prior to publication. For queries or clarifications regarding the Terms of Use or how they may apply to your intended use of the data, please contact the IUCN Red List Unit at redlist@iucn.org.

Previous Finish

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Figure 8: Terms of Use.

Download requested

You can go to your account page to see all your downloads.

Please consider making a nominal donation to the IUCN Red List, so we can keep making the data available to you

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Figure 9: Download requested.

The screenshot shows a user profile on the IUCN Red List of Threatened Species website. The profile information includes the name 'Luis Amador' and email 'amadoroyola@gmail.com'. A red arrow points to the 'Saved downloads' section, which lists several search entries with their descriptions and download/removal options.

Search Details	Description	Action
Search on 2022-05-09 at 21:26:49	Description: Allobates brunneus	Download Remove
Search on 2022-05-09 at 17:38:56	Description: Insuetophrynas acarpicus	Download Remove
Search on 2022-05-07 at 15:11:56	Description: Allobates brunneus	Download Remove
Search on 2022-05-07 at 15:09:35	Description: Eupsophus septentrionalis	Download Remove
Search on 2022-05-07 at 15:08:31	Description: Eupsophus roseus	Download Remove
Search on 2022-05-07 at 15:06:29	Description: Eupsophus nahuatlutensis	Download Remove
Search on 2022-05-07 at 15:04:24	Description: Eupsophus migueldi	Download Remove
Search on 2022-05-07 at 14:45:16	Description: Eupsophus contulmoensis	Download Remove

Figure 10: Saved downloads in the IUCN account page.

The screenshot shows a file manager window listing various files and folders. A .shp file named 'data_0.shp' is visible in the 'Downloads' folder, along with other files like 'data_0.prj', 'data_0.dbf', and 'data_0.cpg'. The file 'data_0.shp' is marked with a star icon, indicating it is starred.

Name	Size	Modified	Star
data_0.cpg	5 bytes	Sat	☆
data_0.dbf	1.8 kB	Sat	☆
data_0.prj	256 bytes	Sat	☆
data_0.shp	9.5 MB	Sat	☆
data_0.shx	116 bytes	Sat	☆
IUCN Red List_Terms and Conditions of Use_v3....	115.0 kB	Sat	☆
METADATA for Digital Distribution Maps Of The I...	458.5 kB	Sat	☆
ReadMe.txt	5.1 kB	Sat	☆

Figure 11: The polygon data is stored in shapefiles, extension .shp.

However, if you want to explore the downloaded information you can do click in ‘Download’ and save the zipped folder in your favorite directory. You can see a folder with different files like showed in Figure 11.

Finally, if you want to explore more and want to visualize the downloaded polygon (Figure 12); an excellent option is to use QGIS <https://qgis.org/en/site/forusers/download.html>. QGIS is a professional GIS application that is Free and Open Source Software (FOSS).

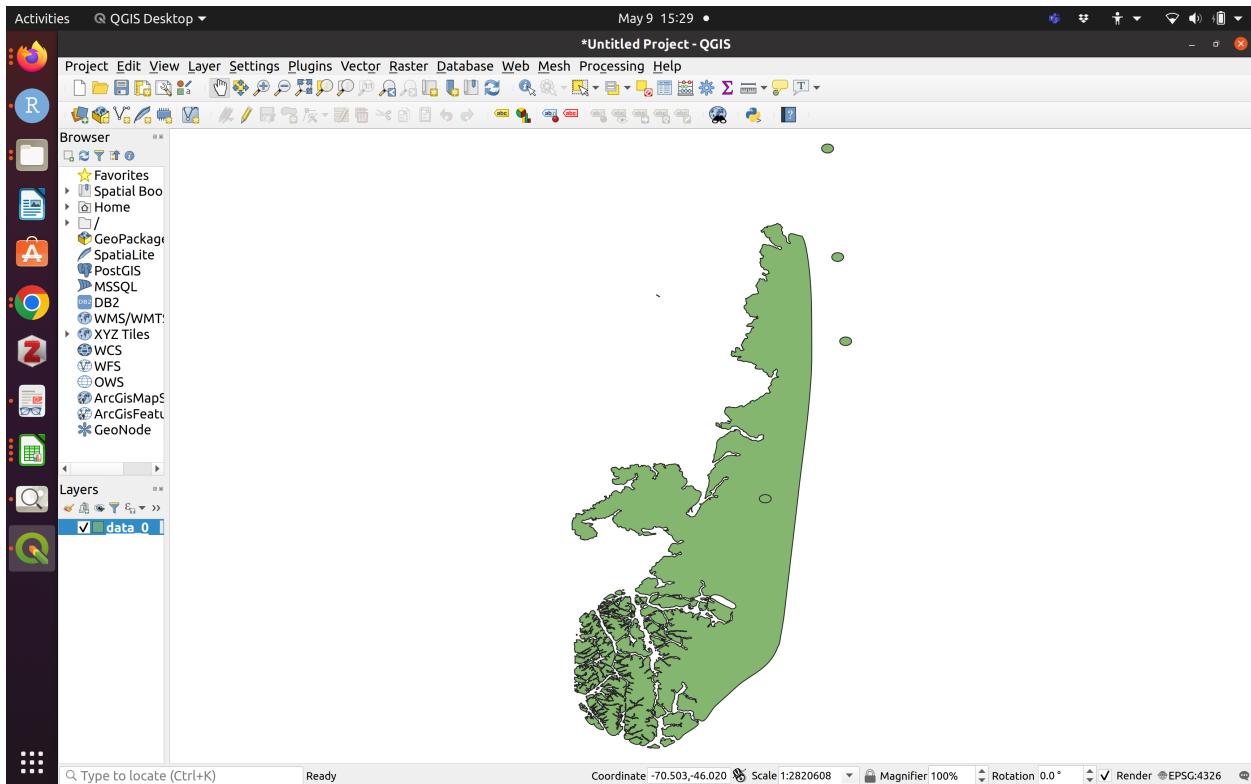


Figure 12: This is how a downloaded species range map from IUCN Red List portal looks like in QGIS.