BioModelos
VERSION 2

Quick guide:
Expert users · Part II

biomodelos.humboldt.org.co/en

TASKS

Experts have the same functionalities that registered users (see guide), but also can suggest or join **groups**, and do any of the **following tasks** for the generation of species distribution models ▷

The group moderator ◁ will **add the tasks** you decide to carry out in the group's task panel (see moderator's guide)

01 RECORDS CURATION

Collaborative **data cleaning**

Part I
Part II

02 MODEL EDITING

Interactively display and select among several thresholds which best represents suitable environmental conditions for species, and **identify areas** of models over and under-prediction

03 ECOLOGICAL VARIABLES

Select suitable species **land covers** types

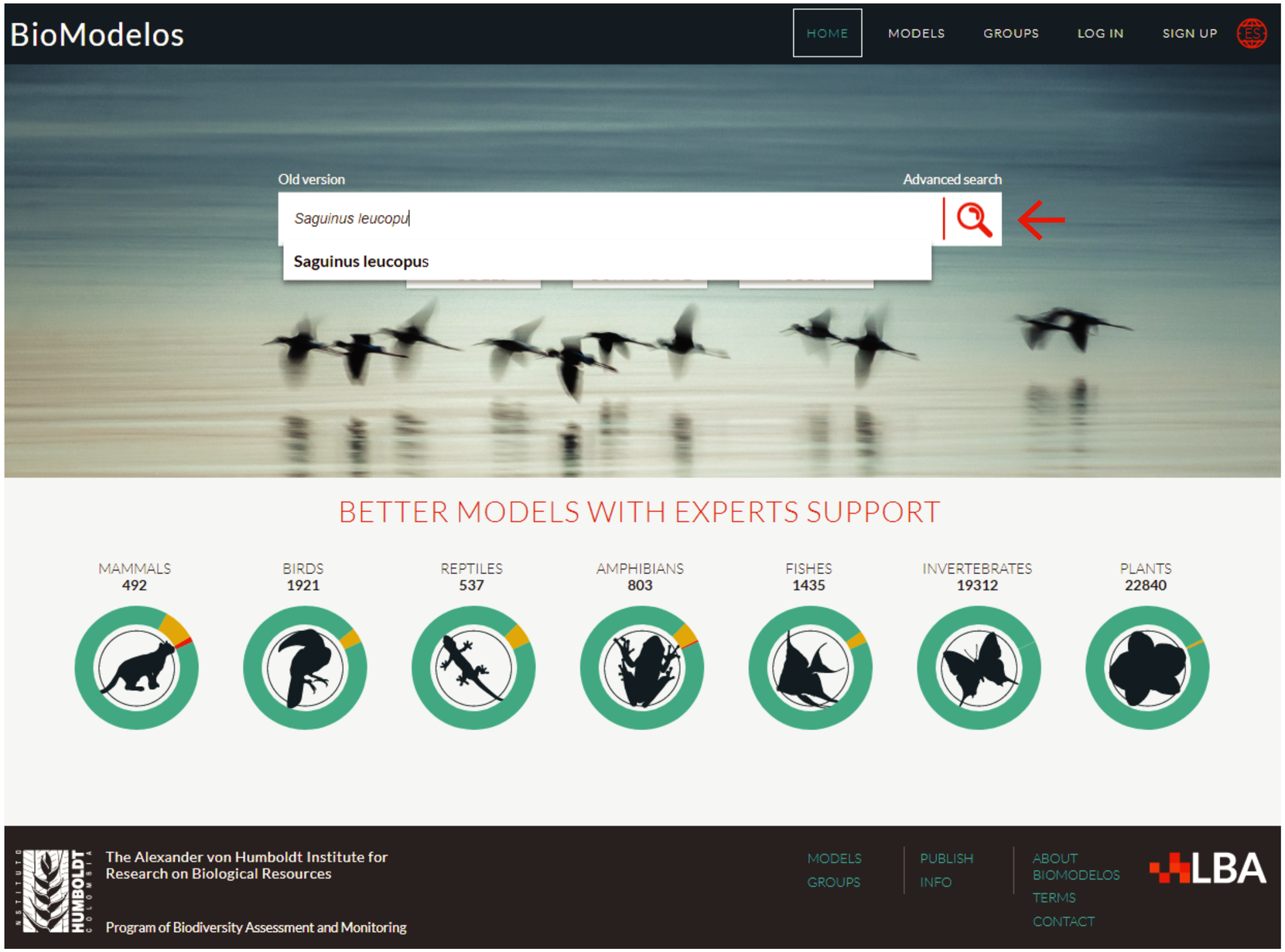
04 APPROVED MODEL

Validation of the **resulting model**, after is scored by the experts (1✕ to 5✓) with a higher than 3 score.

MODEL EDITING

Using *Saguinus leucopus*

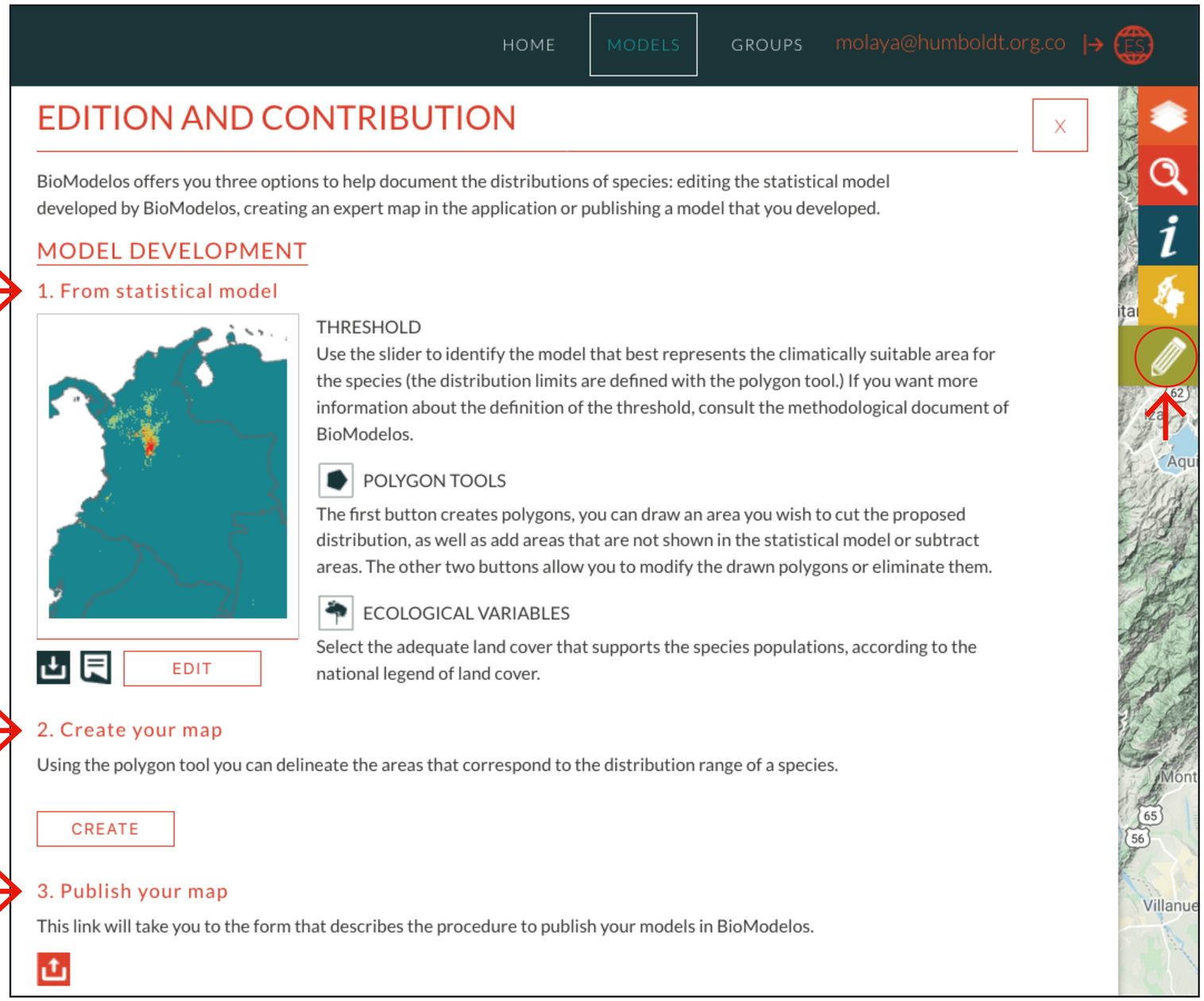
- Start writing the **name of the species**
- Select the **correct name** from the drop-down list
- **Click** on 



MODEL EDITING

Using *Saguinus leucopus*

- Go to the “**edition and contribution**” section and choose a contribution method
- 1. From **statistical model**
- 2. **Create** your map
- 3. **Publish** your map (see publication guide)



MODEL EDITING

4

From statistical model

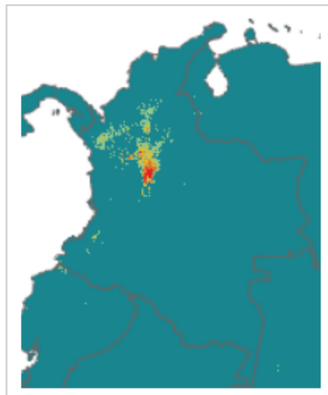
EDITION AND CONTRIBUTION

X

BioModelos offers you three options to help document the distributions of species: editing the statistical model developed by BioModelos, creating an expert map in the application or publishing a model that you developed.

MODEL DEVELOPMENT

1. From statistical model



EDIT

THRESHOLD

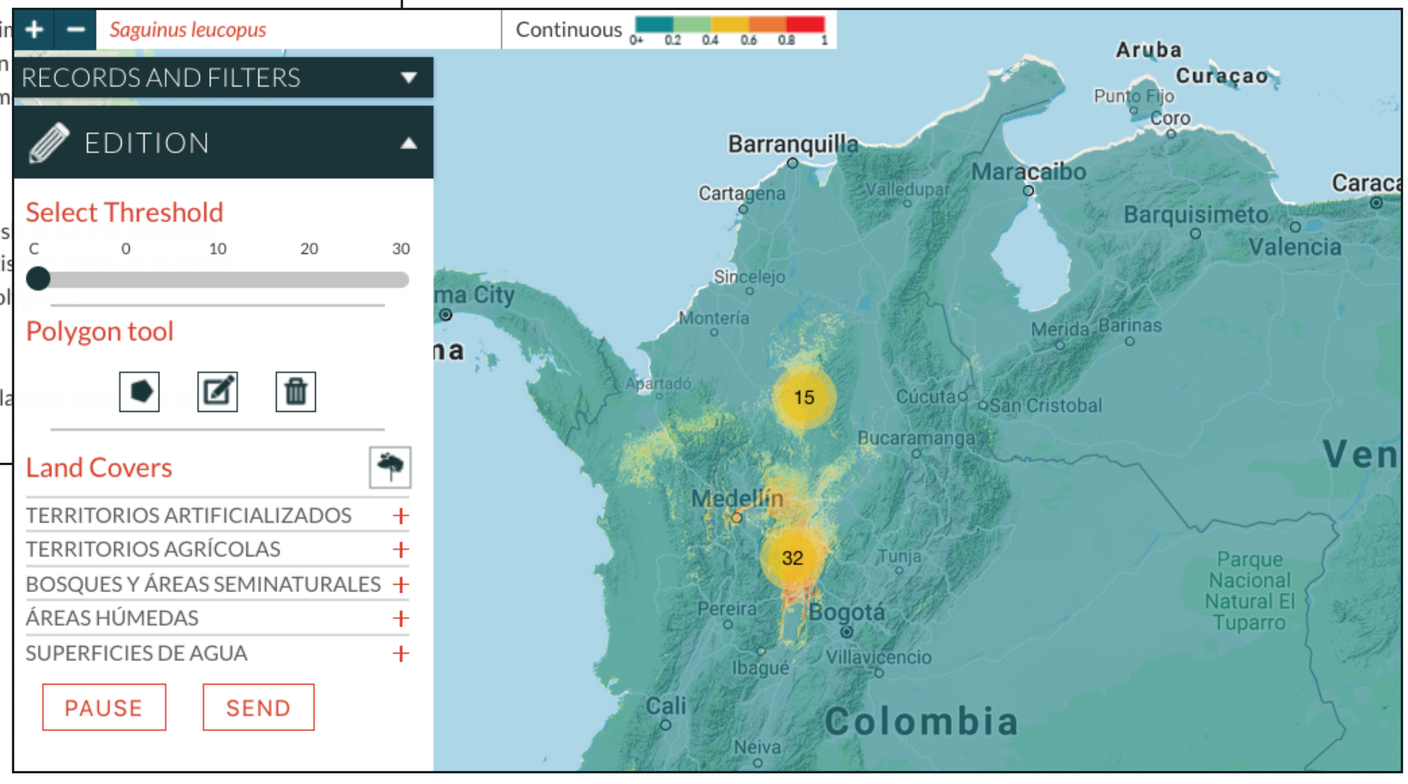
Use the slider to identify the model that best represents the clim
the species (the distribution limits are defined with the polygon
information about the definition of the threshold, consult the m
BioModelos.

POLYGON TOOLS

The first button creates polygons, you can draw an area you wis
distribution, as well as add areas that are not shown in the statis
areas. The other two buttons allow you to modify the drawn pol

ECOLOGICAL VARIABLES

Select the adequate land cover that supports the species popula
national legend of land cover.



▷ Will load the **continuous model** of the species

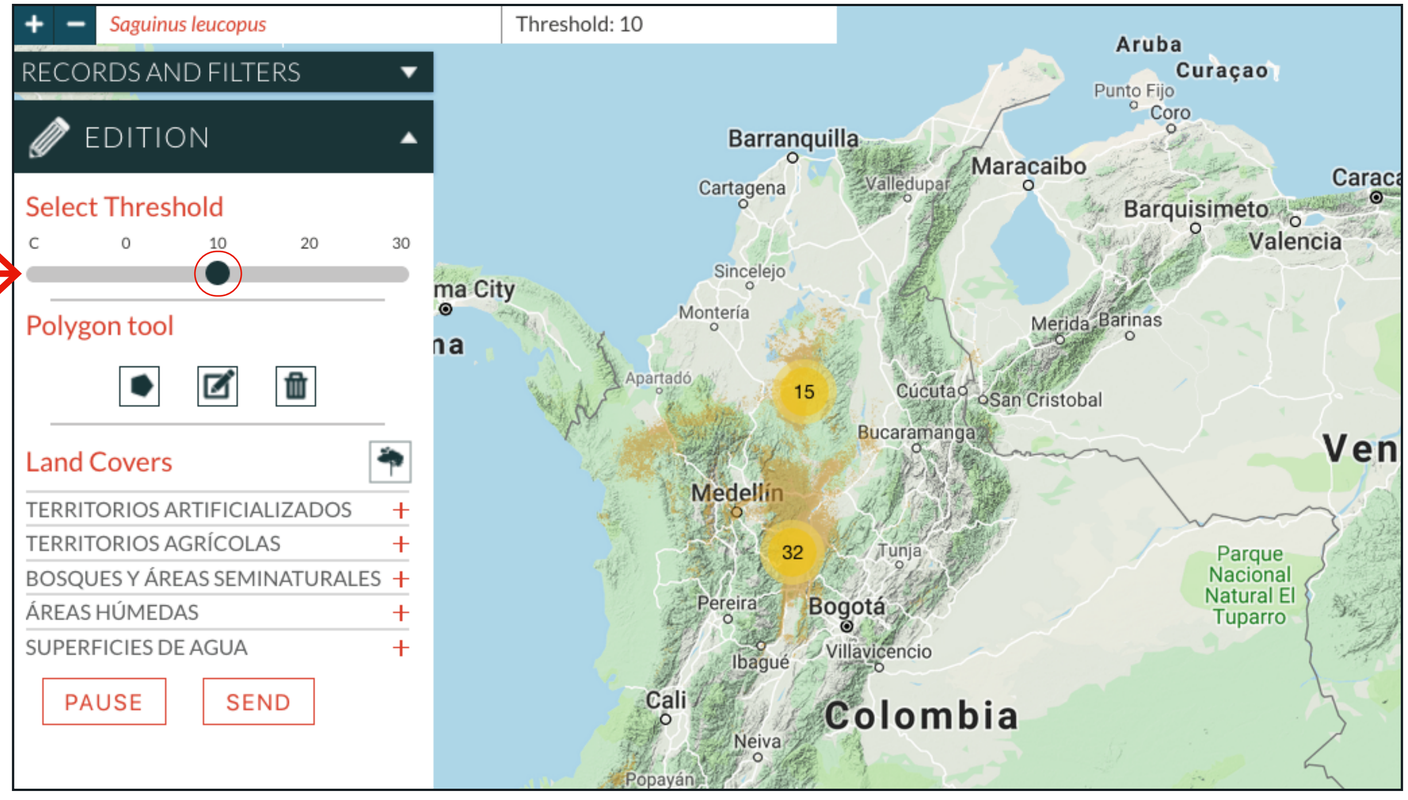
▷ You can **download** or view continuous model **metadata**

MODEL EDITING

From statistical model

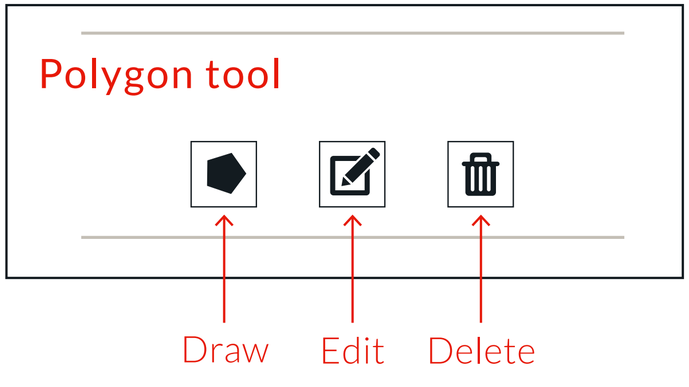
- Select the **threshold value*** that better represents the species distribution

*Proportion of a model on which the species is considered to have potential presence

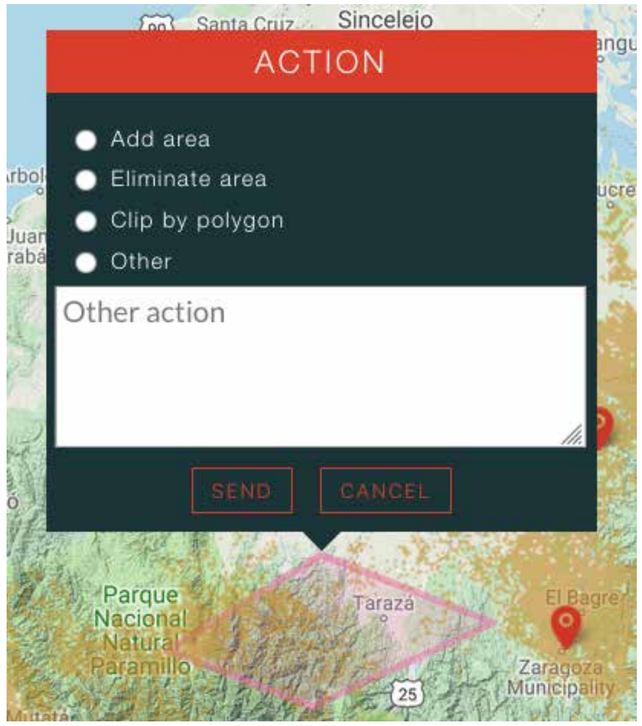


MODEL EDITING

From statistical model



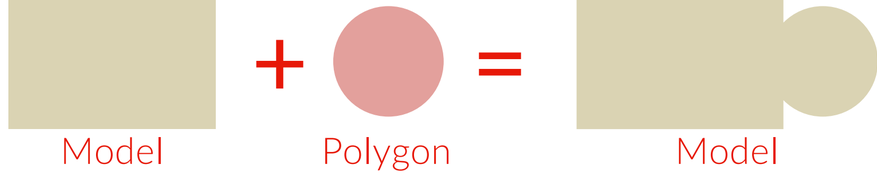
Polygon possible actions:



Editions will be proccesed by **BioModelos core team**

▷ Add area

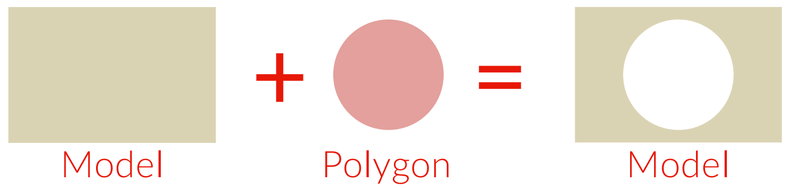
Add distribution areas of the species not predicted by the model



Recommendation:
Add records as well

▷ Eliminate area

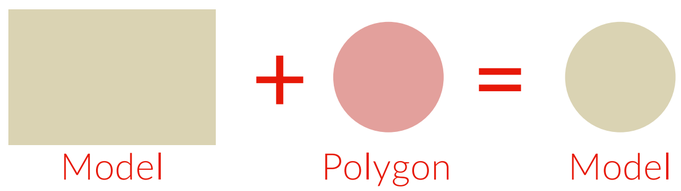
Removes areas of prediction where the species is not found



Recommendation:
Evaluate first clip by polygon

▷ Clip by polygon

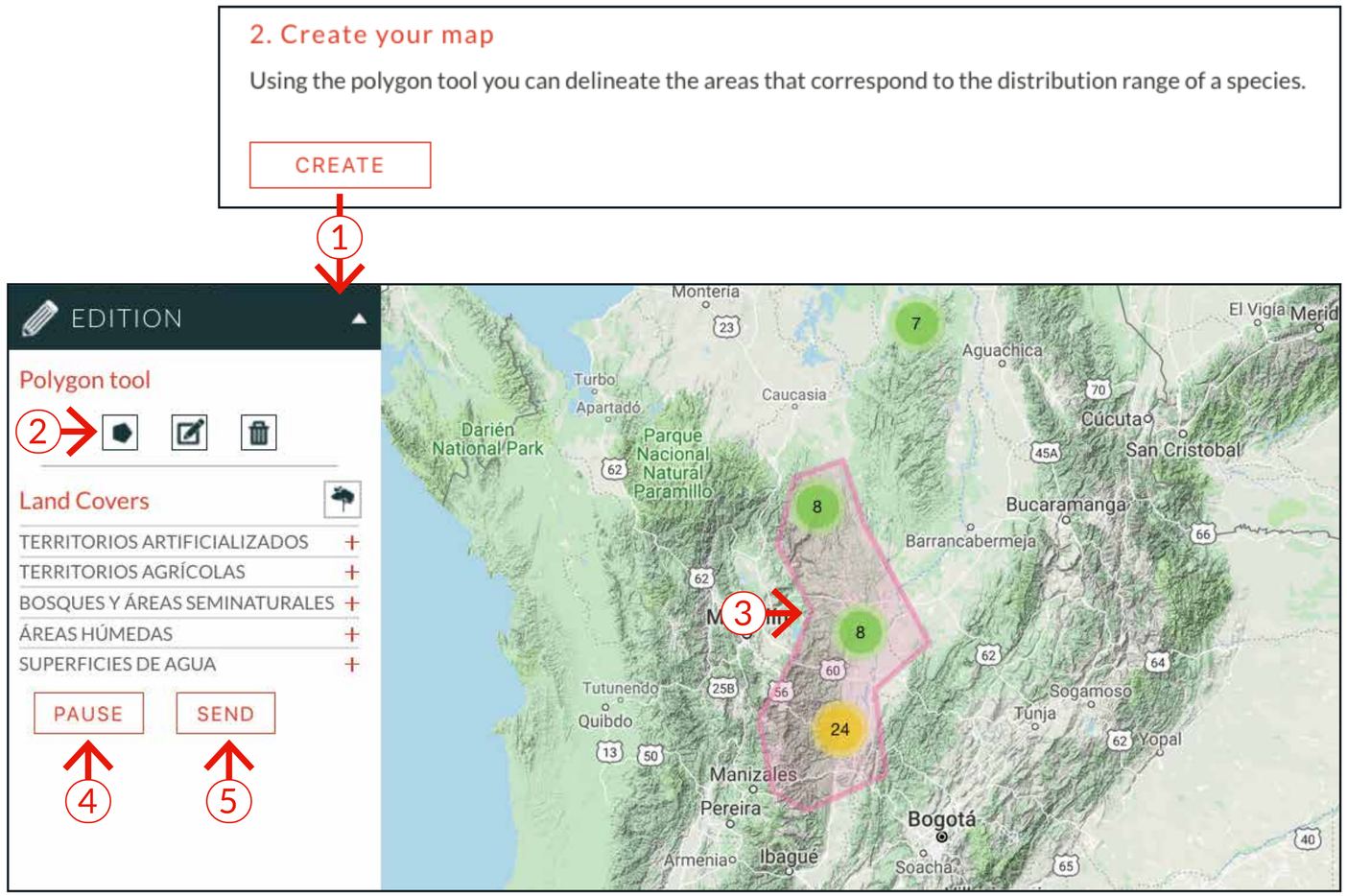
Equivalent to SIG “clip” operation. Used to define the extent of ocurrence of a species



MODEL CONTRIBUTION

Create your map

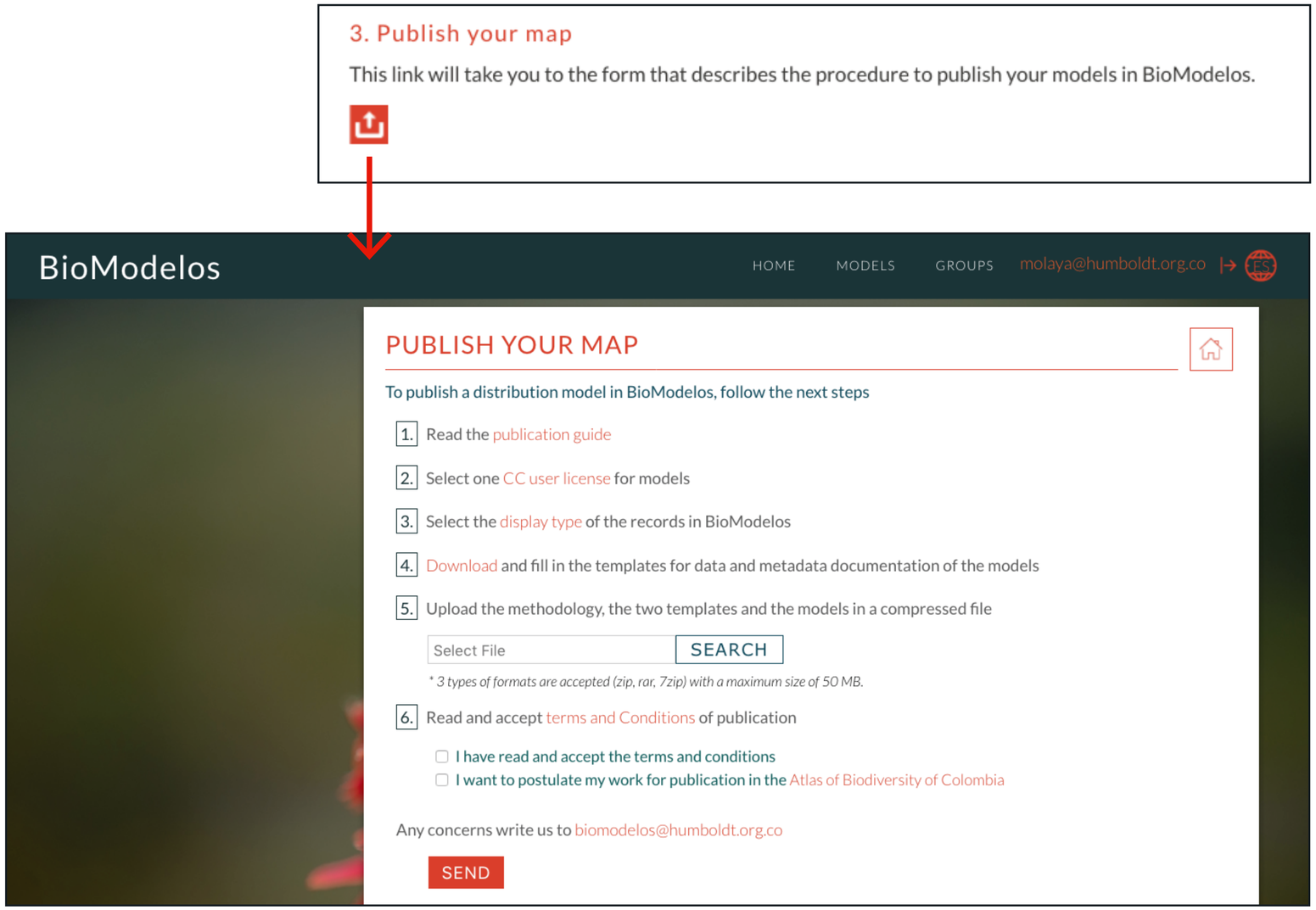
- 1. The **create button** allows you to draw on an empty map
- 2. Activate the **polygon** option
- 3. **Draw** the desired distribution area
- 4. You can **PAUSE** to work later on
- 5. Click **SEND** when tha map is finished



MODEL CONTRIBUTION

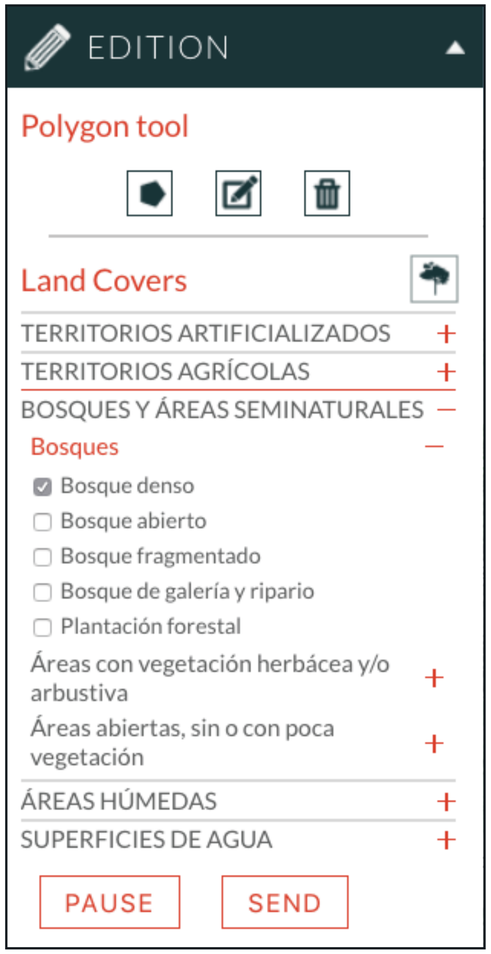
Publish your map

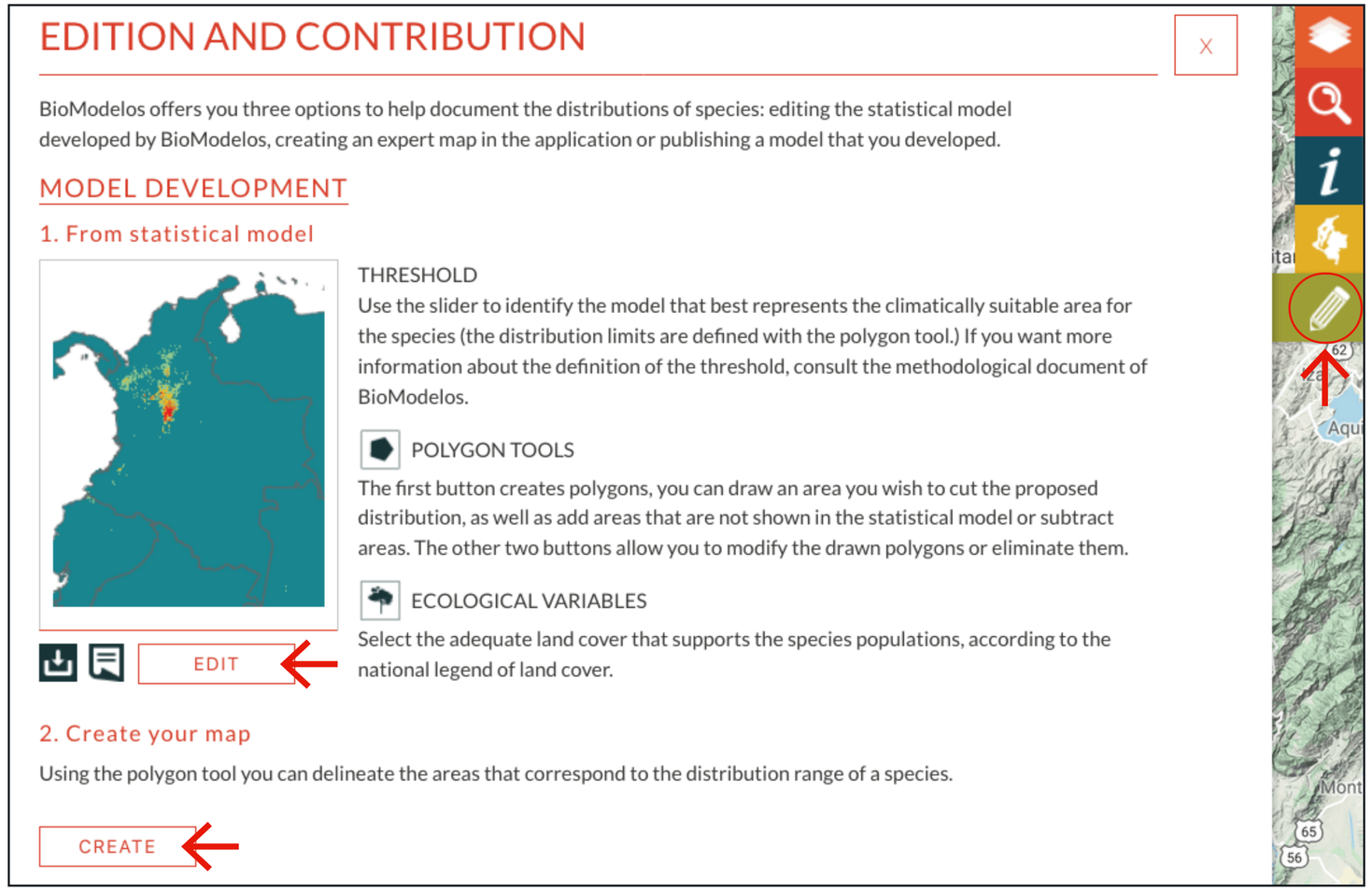
- This option will take you to the "**publication form**", where you can find all the information needed to publish your maps (see publication guide)



ECOLOGICAL VARIABLES

Using *Saguinus leucopus*





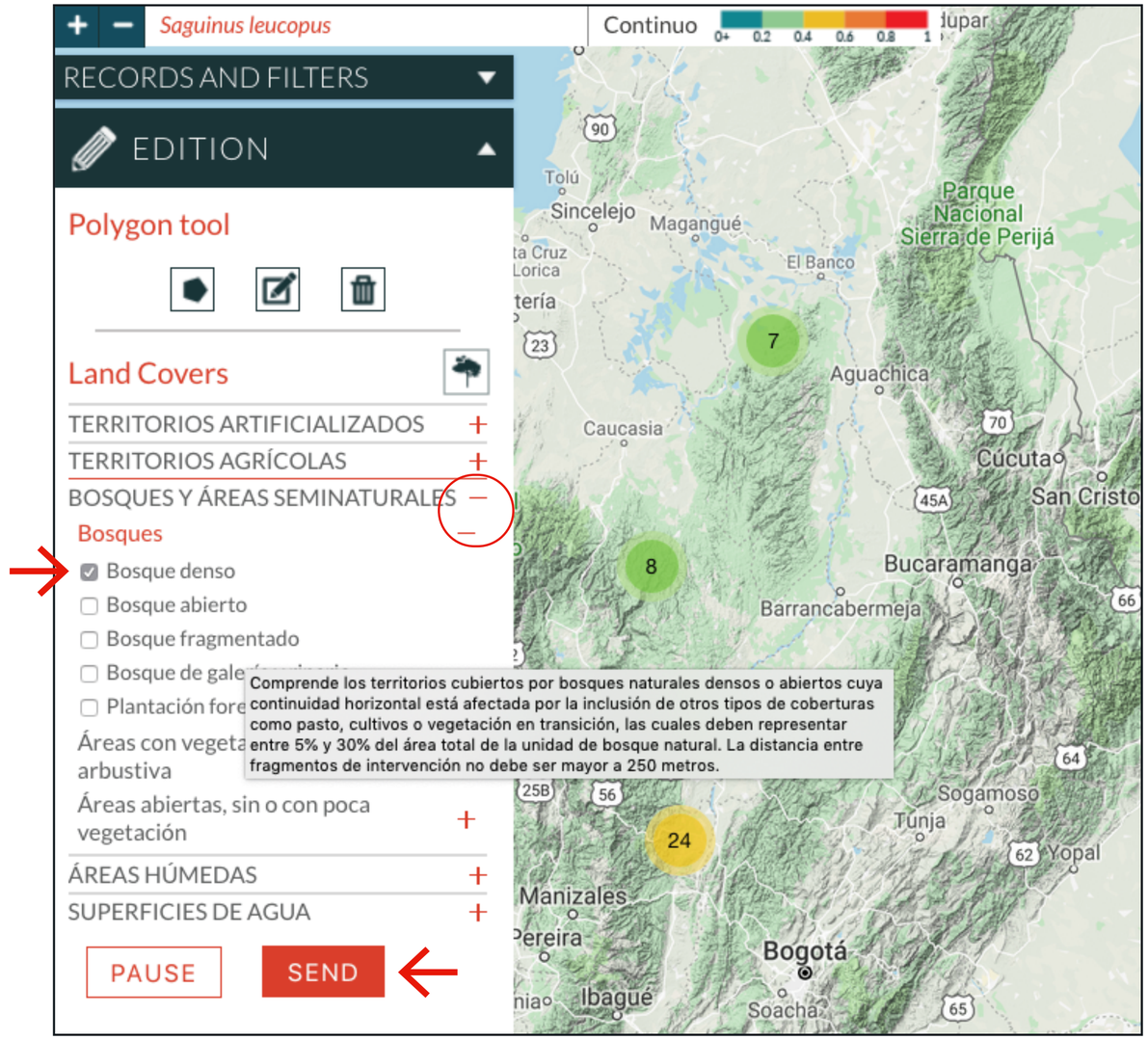
You can go to the “**Ecological Variables**” form from the “**Edit**” or “**Create**” options in the “Edit model” section

ECOLOGICAL VARIABLES

Select land cover

- Select land cover categories (**Corine Land Cover** level 3) where you consider the species can mantain **viable populations**

- When you finish entering the information for a species, select the “**SEND**” button



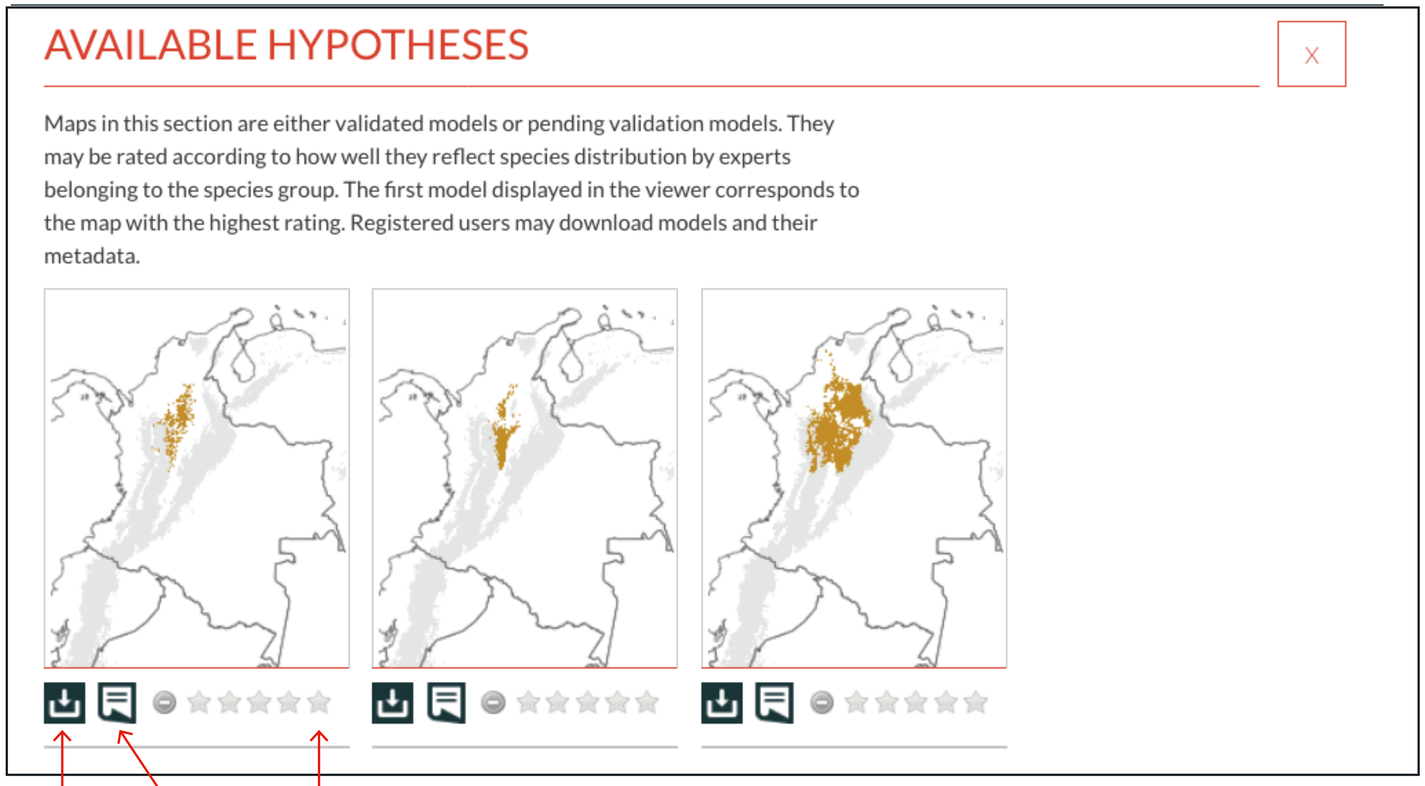
Each cover description appears with a mouse over

APPROVED MODEL

Scoring

- A “**pending validation**” model (after records curation and editions), needs a score of 3+ to become validated. In the “Distribution hypotheses” option you can **check and qualify** all available hypotheses

Each map has an average score, number of downloads, authors, year of publication and Creative Commons license



APPROVED MODEL

Finishing the process

- You can check the **approved model** column in the task panel of your profile, or ask the moderator to do it in the group tasks, to **complete the validation** of the species distribution model