# **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)

<sup>o1</sup> RECORDS CURATION Collaborative data cleaning Part Part II <sup>o2</sup> 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 •3 ECOLOGICAL VARIABLES Select suitable species land covers types

•4 APPROVED MODEL Validation of the **resulting model**, after is scored by the experts (10 to 50) with a higher than 3 score.

# MODEL EDITING Using Saguinus leucopus







Program of Biodiversity Assessment and Monitoring

Start writing the name of the species

Select the correct name from the drop-down list

> Click on

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CONTACT

### BETTER MODELS WITH EXPERTS SUPPORT

# 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,

## EDITION AND CONTRIBUTION

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



### 2. Create your map

Using the polygon tool you can delineate the areas that correspond to the distribution range of a species.

CREATE



t

(2)

(1)

3. Publish your map

This link will take you to the form that describes the procedure to publish your models in BioModelos.

HOME

GROUPS

Use the slider to identify the model that best represents the climatically suitable area for the species (the distribution limits are defined with the polygon tool.) If you want more information about the definition of the threshold, consult the methodological document of

### POLYGON TOOLS

The first button creates polygons, you can draw an area you wish to cut the proposed distribution, as well as add areas that are not shown in the statistical model or subtract areas. The other two buttons allow you to modify the drawn polygons or eliminate them.

### ECOLOGICAL VARIABLES

Select the adequate land cover that supports the species populations, according to the national legend of land cover.



## MODEL EDITING From statistical model

## **EDITION AND CONTRIBUTION**

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### MODEL DEVELOPMENT

### 1. From statistical model



EDIT

### THRESHOLD

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

Select Threshold

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Polygon tool

Land Covers

ÁREAS HÚMEDAS

PAUSE

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### The first button creates polygons, you can draw an area you wis

POLYGON TOOLS

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



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## MODEL EDITING From statistical model



Editions will be proccesed by BioModelos core team

▷ Add area by the model Model Polygon ▷ Eliminate area not found Model Clip by polygon



## Add distribution areas of the species not predicted



## Removes areas of prediction where the species is



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

# MODEL CONTRIBUTION Create your map

I. 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





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### 2. Create your map

Using the polygon tool you can delineate the areas that correspond to the distribution range of a species.

# 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)

## 8

### 3. Publish your map

This link will take you to the form that describes the procedure to publish your models in BioModelos.

	HOME	MODELS	GROUPS	molaya@humboldt.org.c	∘ ⊨
PUBLISH YOUR MAP					ŝ
To publish a distribution model in BioMod	lelos, follow the ne	ext steps			
1. Read the publication guide					
2. Select one CC user license for mode	S				
3. Select the display type of the record	s in BioModelos				
4. Download and fill in the templates for	or data and metada	ta documentat	ion of the mo	odels	
5. Upload the methodology, the two te	mplates and the m	odels in a comp	pressed file		
Select File	SEARCH				
* 3 types of formats are accepted (zip, rar, 7zi	) with a maximum size c	of 50 MB.			
6. Read and accept terms and Condition	ns of publication				
<ul> <li>I have read and accept the terms</li> <li>I want to postulate my work for p</li> </ul>	and conditions ublication in the Atla	as of Biodiversit	y of Colombia		
Any concerns write us to biomodelos@h	umboldt.org.co				
SEND					

# ECOLOGICAL VARIABLES Using Saguinus leucopus

Polygon tool				
•				
Land Covers	4			
TERRITORIOS ARTIFICIALIZADOS	+			
TERRITORIOS AGRÍCOLAS	+			
BOSQUES Y ÁREAS SEMINATURALE	s —			
Bosques	—			
Bosque denso				
<ul> <li>Bosque abierto</li> </ul>				
<ul> <li>Bosque fragmentado</li> </ul>				
<ul> <li>Bosque de galería y ripario</li> </ul>				
<ul> <li>Plantación forestal</li> </ul>				
Áreas con vegetación herbácea y/o arbustiva	+			
Áreas abiertas, sin o con poca vegetación				
ÁREAS HÚMEDAS	+			
SUPERFICIES DE AGUA	+			
PAUSE SEND				

## EDITION AND CONTRIBUTION

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### MODEL DEVELOPMENT

1. From statistical model



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### THRESHOLD

Use the slider to identify the model that best represents the climatically suitable area for the species (the distribution limits are defined with the polygon tool.) If you want more information about the definition of the threshold, consult the methodological document of BioModelos.

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### ECOLOGICAL VARIABLES

Select the adequate land cover that supports the species populations, according to the national legend of land cover.

Using the polygon tool you can delineate the areas that correspond to the distribution range of a species.



## 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

metadata.





# 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

STATISTICS TASKS					
TASKS					
Species	•		4	✓	%
Saguinus leucopus	_	_	_		100%



TATISTICS TASKS ACTIVITY SPECIES	EXPER	ΤS			
•					100%
Aotus nancymaae 🔹 👻					100%
Aotus brumbacki 🔹 👻					100%
Lagothrix lagothricha 🔹 🔻					100%
Alouatta palliata 🔹 👻					100%
Cheracebus medemi 🔹 👻					100%
Saguinus leucopus 🔹 🔻					100%
Lina M Valencia	—	—	—		100%
Néstor Javier Roncancio Duque	-	-	-	~	100%
Lina M Valencia	_	-	—	~	100%
Primates Universidad de Texas en Austin Bogota					100%

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