Maxent Documentation

Here is where you download Maxent and read more about it, with a tutorial included.

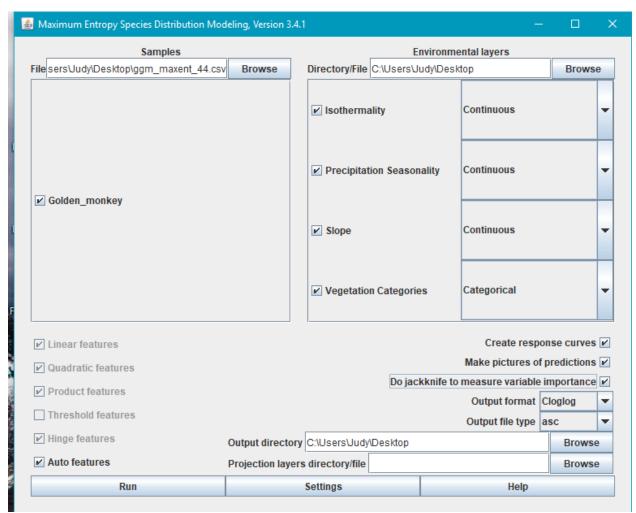
Find Maxent Data.zip in this repository. You will need a password to unlock the GGM sightings (.csv) data; please contact J. Mak (the owner of the Github repository). Otherwise, you may import your own sample file in .csv format that follows this setup:

A	Α	В	С	
1	Golden_monkey	108.7	27.97	
2	Golden_monkey	108.7	28	
3	Golden_monkey	108.	27.97	
4	Golden_monkey	108.	27.97	
5	Golden_monkey	108.	27.97	
6	Golden_monkey	108.7	27.97	
7	Golden_monkey	108.	27.97	
8	Golden_monkey	108.	27.97	
9	Golden_monkey	108.7	27.97	
10	Golden_monkey	108.7	27.97	

Column A should have no spaces and feature the name of the animal you are tracking. Column B should feature the longitude (E) to as many decimal places as possible. Column C should feature the latitude (N) to as many decimal places as possible.

Try to have a minimum of 40 or so values; see my thesis for more details.

Start the Maxent program by clicking the .bat file. Input the attached files as seen in the screenshot on the next page (when adding the .ascs, be sure to select 'All Files' if you can't see them, and don't forget to select Vegetation Categories as 'Categorical'):



^{*}ggm_maxent.csv is a list of sightings we found of golden monkeys through camera trapping. You should either use this or import your own sample file, as detailed in the previous page.

Then you should open Settings and check/input the following in the Basic and Advanced tabs:

Basic Advanced Experim	ental	1	Basic	Advanced	Experimental			
				Add samples to background				
Random seed				Add all samples to background				
Give visual warnings				☐ Write plot data				
☐ Show tooltips				✓ Extrapolate				
Ask before overwriting				✓ Do clamping				
Skip if output exists				✓ Write output grids				
Remove duplicate presence records				✓ Write plots				
✓ Write clamp grid when projecting				Append summary results to maxentResults.csv file				
✓ Do MESS analysis when projecting				✓ Cache ascii files				
Random test percentage		Maximu	m iterations	10000				
Regularization multiplier	1		Converg	ence threshol	d	0.00001		
Max number of background poin	ts	10000		ample radius		0		
Replicates	10		Log file			maxent.log		
Replicated run type	Bootstrap	-	Default p	revalence		0.5		
Test sample file	Bro	wse	Apply the	reshold rule			-	
	Bias file	C:\Users\Judy	dy\Desktop\Resampled Bias Grid.asc Browse					

After this, you can run the Maxent model, which will generate a few plots and a Golden_monkey.html webpage. Open that webpage to see results; you should get an AUC of about 0.929 as well as an image that looks exactly like Figure 4.2 in my thesis. My thesis has more info on what the results mean as well.

