## ECOLOGICAL NICHE MODELING

**(A) Manual - MaxEnt**

Files for this activity can be found in *“Demo/Manual/Ecological\_Niche\_Modeling/”* folder.

With our cleaned, georeferenced occurrence points and lowly-correlated, clipped layers, we are now ready to make some ecological niche models (ENMs).

1. Open Maxent (maxent.jar).
   1. You may need to go the “System Preferences” -> “Security and Privacy” -> “General” and “Open anyways”
2. Select your cleaned occurrence csv file (diapensiaceae\_maxentready\_20220625.csv) in the Samples tab. Your species should become displayed in the box below. **Only run one species at a time.**
3. Select the folder with your Environmental layers for one of your species (ex. “/Demos/Rbased/CrashCourse/data/climate\_processing/PresentLayers/Galax\_urceolata”). All of the layers should become displayed.
4. Add your Projected layers under “Projection layers directory/files” (“Demos/Rbased/CrashCourse/data/climate\_processing/PresentLayers/all”)
5. Select an Output directory (Output).
6. We have attached screenshots of the parameters that should be selected and entered. Make sure to match yours with them.

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1. Click RUN!
2. If any errors pop up that says a point is missing environmental data, click “Ok”