DRECP Framework Conservation Strategy Report

Comment Form

Commenter (Your Name)	Comment #	Comment Location: Chapter	Section #	Page #	Paragraph	Paragraph (from top)	Reviewer Comment (e.g., organization, content, grammatical comments)
John Cannon	1	Baseline Biology Report Appendix C	4.4	C-10	1	5	It is my understanding that using Jenks Natural Breaks to separate the probabilistic Maxent output into two classes ("habitat" and "non-habitat") is inappropriate. Jenks Natural Breaks would be more appropriately used to adjust symbology for display purposes and is unrelated to the question at hand of maximizing the model's accuracy in predicting species habitat. A more appropriate approach would be to use one of the cut-off values listed in the "maxentResults.csv" file that can be output with each Maxent run. Depending on the Maxent output specified (cumulative, logistic), the value for "Maximum test sensitivity plus specificity logistic threshold" would be a better cut-off option. This would maximize model predictive accuracy (i.e. the model's ability to correctly distinguish between presence and absence locations). The concepts of sensitivity and specificity are tied to the idea of a confusion matrix, which is based on actual presence and absence data. Jenks Natural Breaks are just grouping the probability output values without regard to how that relates back to the model results.

Commenting on: (Clean version, track changes version) _____March 2012 Draft: (http://www.drecp.org/meetings/2012-06-26_meeting/review/baseline_biology_report_appendices/11_Appendix_C_Species_Models/11_Appendix_C_Species_Habitat_Model_Results_Introduction.pdf)