

ArboMAP: Arbovirus Modeling and Prediction to Forecast Mosquito-Borne Disease Outbreaks

Variable Selection (v2.0)

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Variable selection has been performed, with environmental variables chosen pairwise from the available environmental covariates. There were 15 models considered, and these are ordered below by the Akaike information criterion (AIC). A lower AIC in this case means the model fit the observed data better, so we generally assume that the first model on the list is the best model, and use these two variables for modeling and prediction.

Here, therefore, we recommend `tmeanc` and `vpd` as predictors in the `ArboMAP Main Code.Rmd` file.

var1	var2	AIC
tmeanc	vpd	6395.91
tmaxc	vpd	6407.86
tmeanc	rmean	6425.00
tminc	vpd	6429.03
tmaxc	rmean	6429.32
tminc	rmean	6448.71
tminc	pr	6505.05
tminc	tmaxc	6513.22
tmeanc	tminc	6513.22
tmeanc	tmaxc	6513.22
tmeanc	pr	6534.85
tmaxc	pr	6569.42
rmean	vpd	6613.14
pr	vpd	6695.46
pr	rmean	7174.32