* other variables to use other than the 3 state factors they used last year?
  + last year: ratio of pet to ppt, depth to bedrock, coefficient var of ppt
  + use widely avail variables: remotely sensed?, integrate across time (less time dependent), continuous (rather than categorical)
    - % woody cover from remote sensing imagery
    - if that doesn’t work we could use the NCLD cover class (forested vs NOT forested)
* **cross validation** by creating multiple multiple-linear-regression models to see how well a model predicts the beta value for a site that was excluded from the model creation
* compare AIC values of model with predictive variable and without and see how much it gives you in terms of predictive power
* look at total amount of biomass at a site rather than proportion by depth
  + same as before but instead of proportion on y-axis, look at total mass number per increment
  + control for sampling time year (date) 🡪 remove effects and then run analyses on residuals
  + find nutrient status from SIRGO database
    - soil C:N
    - % N

1. rerun julias analyses with expanded dataset to see how it changes things
   1. predictions better or worse
   2. what changed – what sites/kinds of sites did we add that made it better or worse
2. use same code but change response variable to look at total biomass instead of proportion
   1. account for date if possible
   2. at least note that there is a phonological effect not accounted for if I don’t remove it
   3. predict beta and the value of the asymptote because can no longer use Y=1-ßd since we are no longer using a proportion 1 is no longer the proper value to use