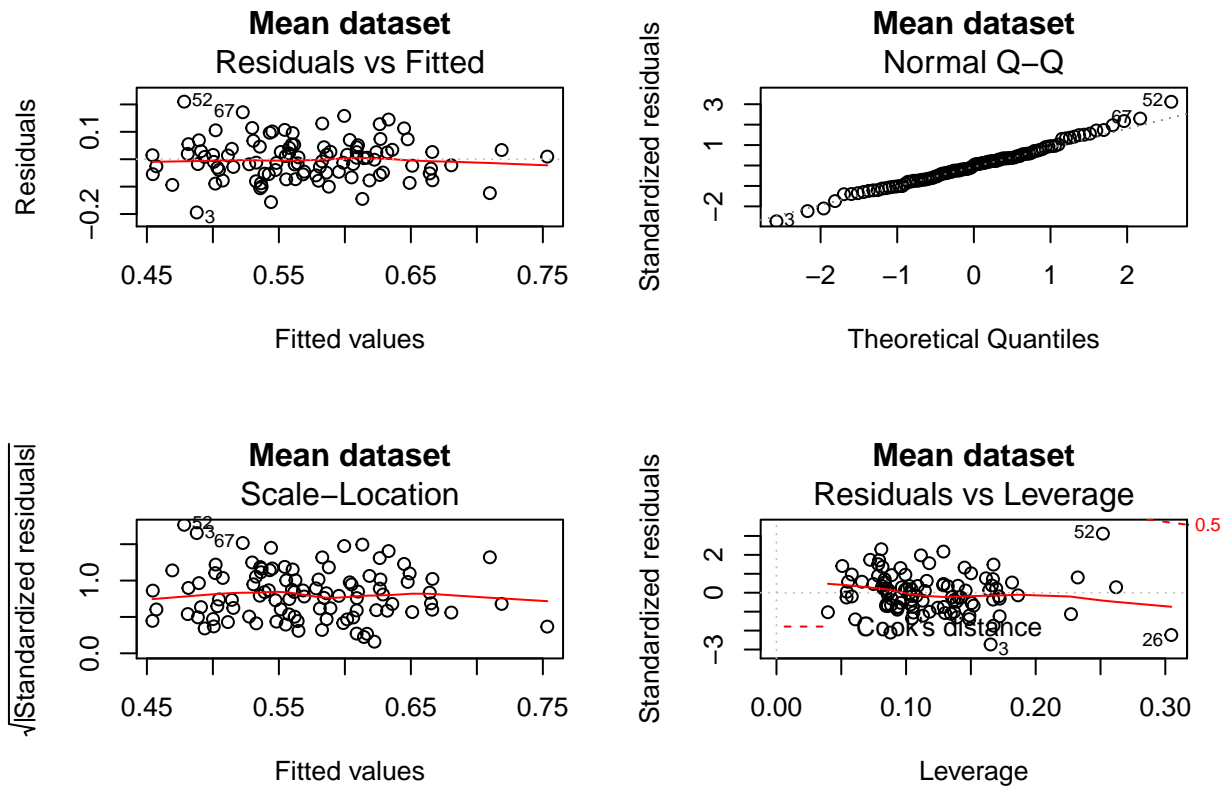


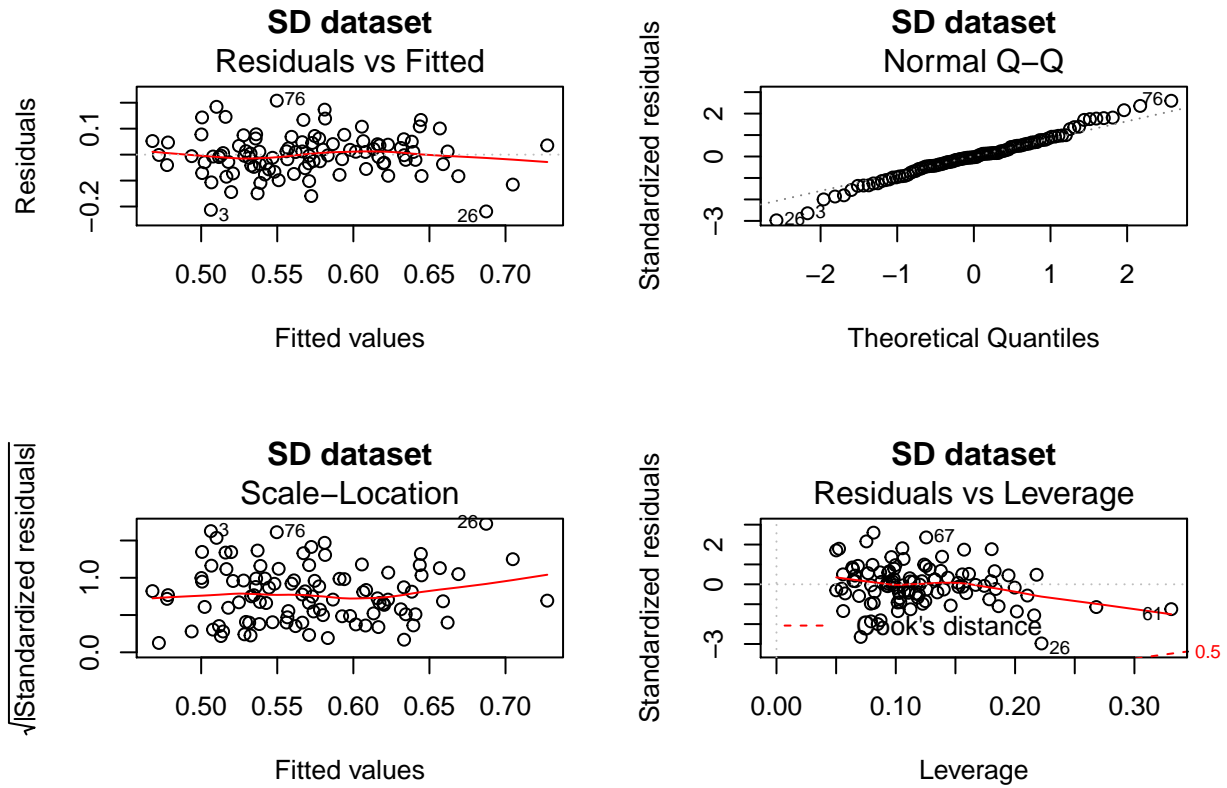
Zeta_r Drivers

Petra Guy

10 May 2018

Modeling the response of zeta_r to the abiotica/heterogeneity variables





```
## Northing      PHI      meandbh      meanph      Buffer      meanSOM
## 1.730083      1.215926      2.031896      1.377587      1.819210      1.162576
## meanLBA      meanTD      area_ratio      no_NVC      no_MSG
## 1.706256      1.950731      1.230848      1.299008      1.276061

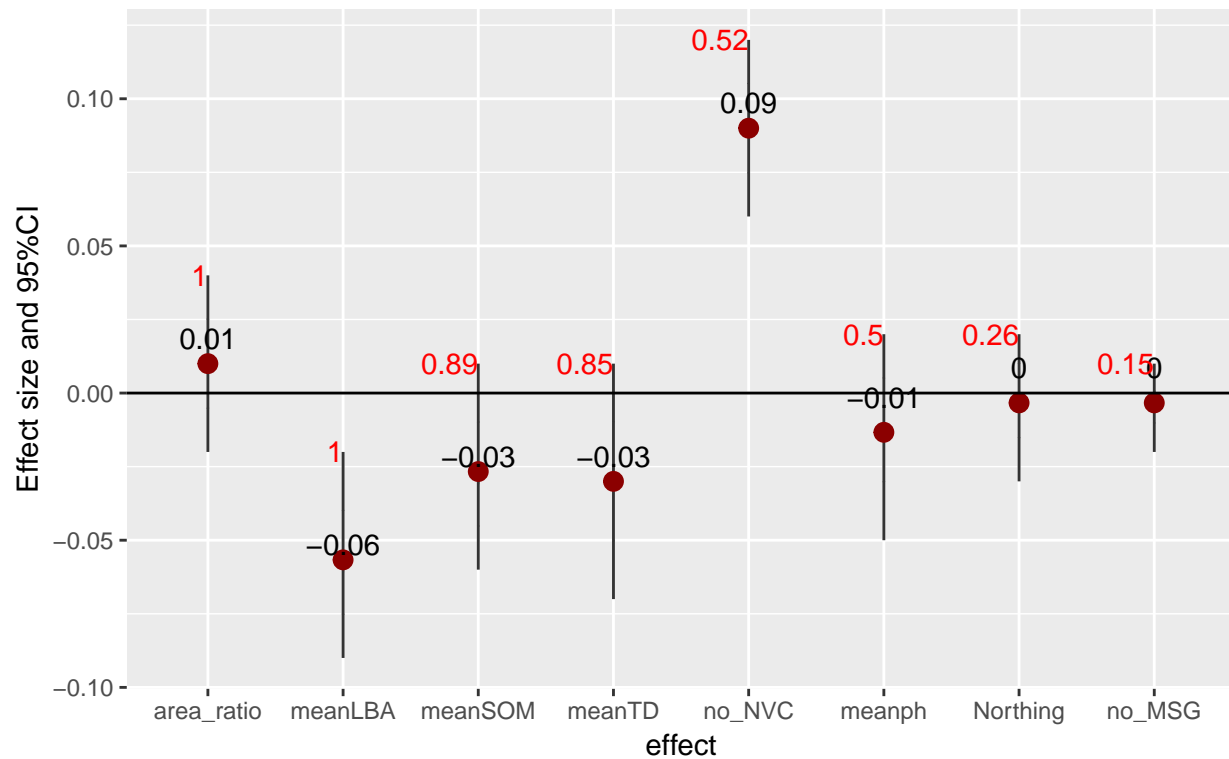
## Northing      PHI      Buffer      no_MSG      no_NVC      sd_pH
## 1.713097      1.275714      1.860168      1.241747      1.277452      1.328220
## sd_SOM      sd_LBA      sd_meandbh      sd_TD      area_ratio
## 1.412783      1.188175      1.521227      1.501602      1.257226
```

The variance inflation factors in the sd dataset are also low

The models which had a delta <2 were selected from the MuMin dredge function as the top model set.

Model averaged results for delta <2, zeta_r, Mean dataset

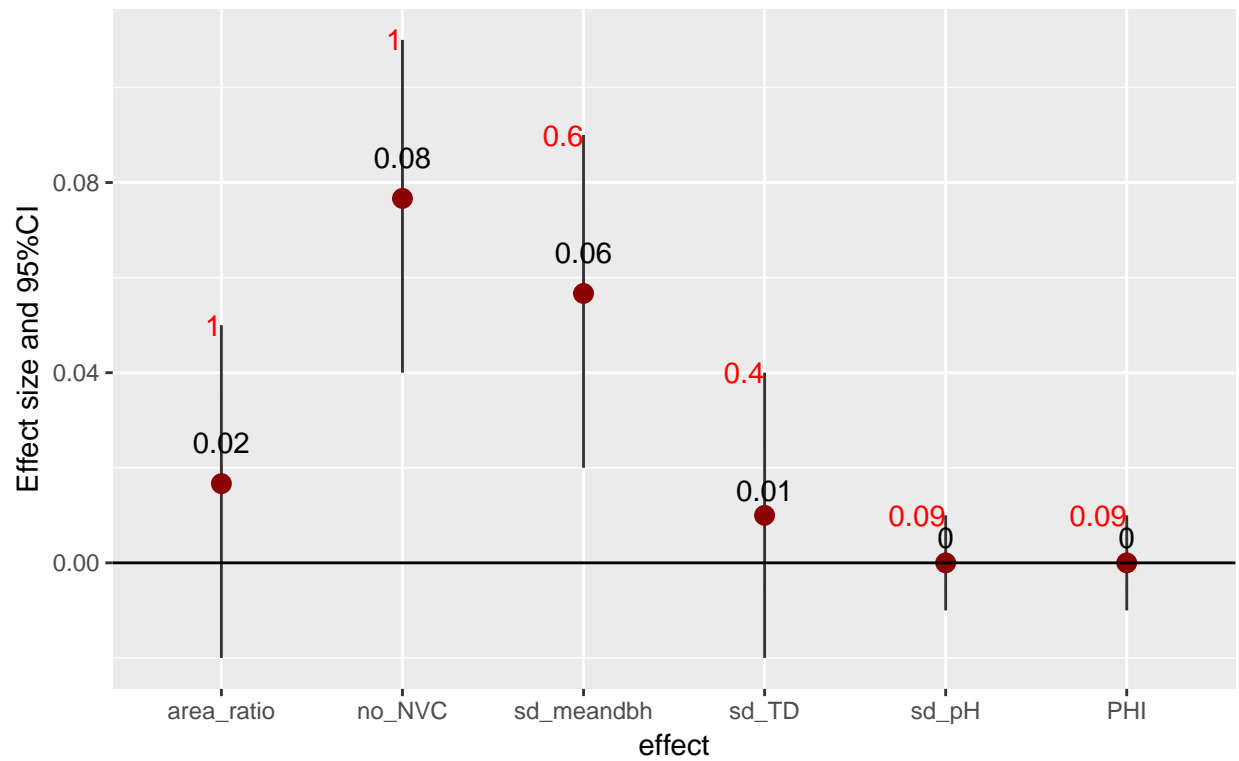
numbers in red are variable importance



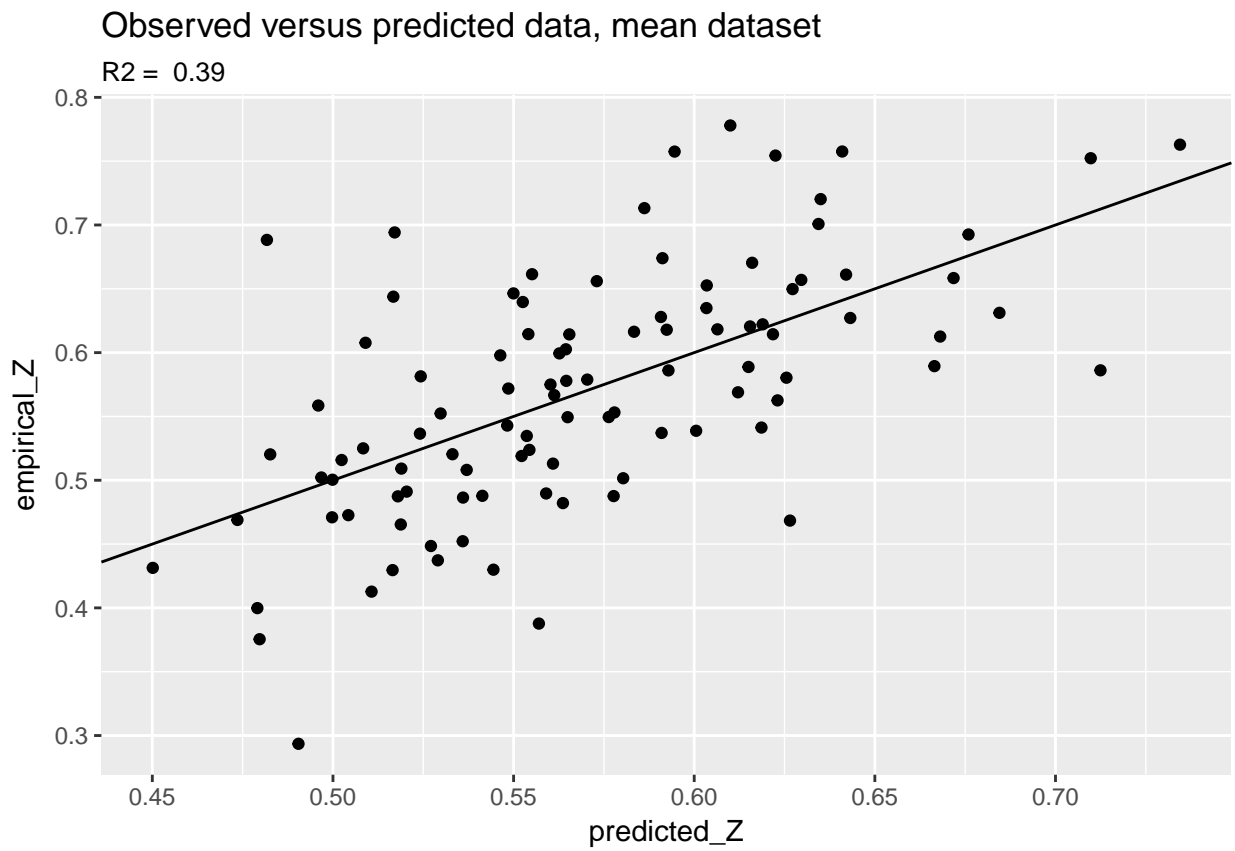
The graph shows the averaged effect sizes of the model with delta < 2. Number of NVC codes, mean tree density and mean soil organic matter effect the plot level Z

Model averaged results for delta <2, zeta_rs, SD dataset

numbers in red are variable importance



In the sd dataset model the standard devaiiton of mean dbh has an effect. ##Using the model for prediction



Observed versus predicted data, sd dataset

R2 = 0.31

