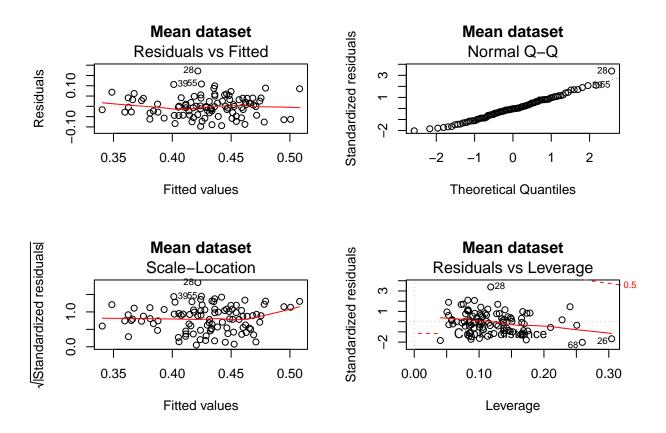
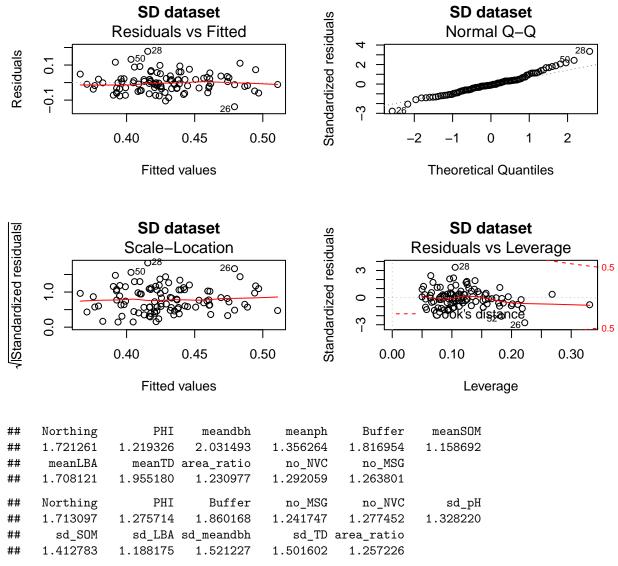
# Analysing the effect of abiotic factors on Plot z

Petra Guy 10 May 2018

Species area curves were calculated at plot level, that is, the cumulative species count from an area of 200m<sup>2</sup> to 3200m<sup>2</sup>. The minimu and maximum curves were calculated and their average taken. A linear log/log fit was calucalted and the slope of this fit was extracted. That slope is fited here against the abiotic variables.



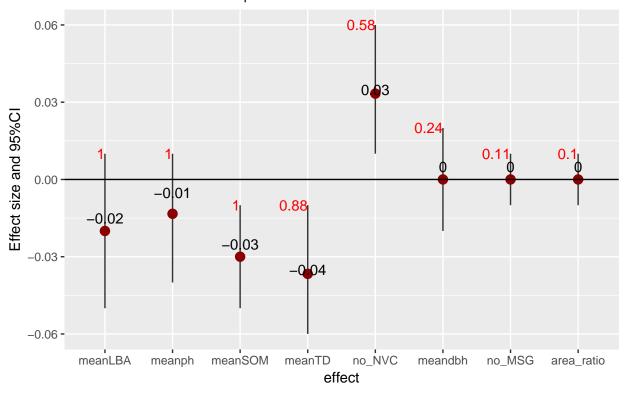


The variance inflation factors in the sd dataset are also low

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

### Model averaged results for delta <2, Plot Zs, Mean dataset

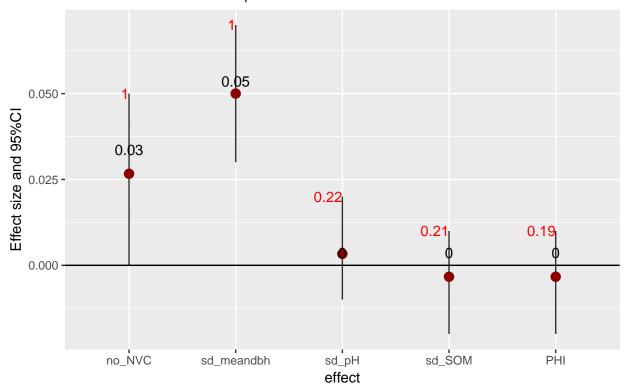
numbers in red are variable importance



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

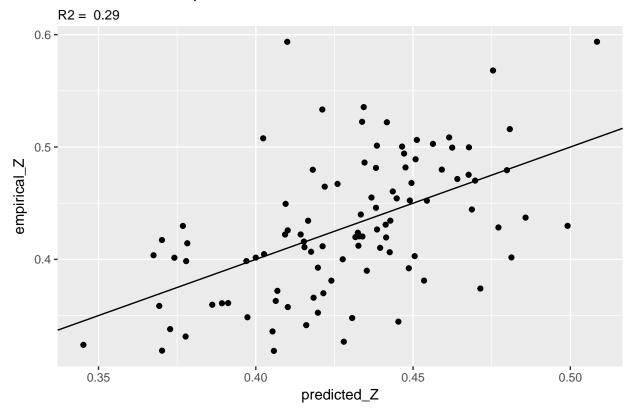
### Model averaged results for delta <2, Plot Zs, SD dataset

numbers in red are variable importance



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

## Observed versus predicted data, mean dataset



## Observed versus predicted data, sd dataset

