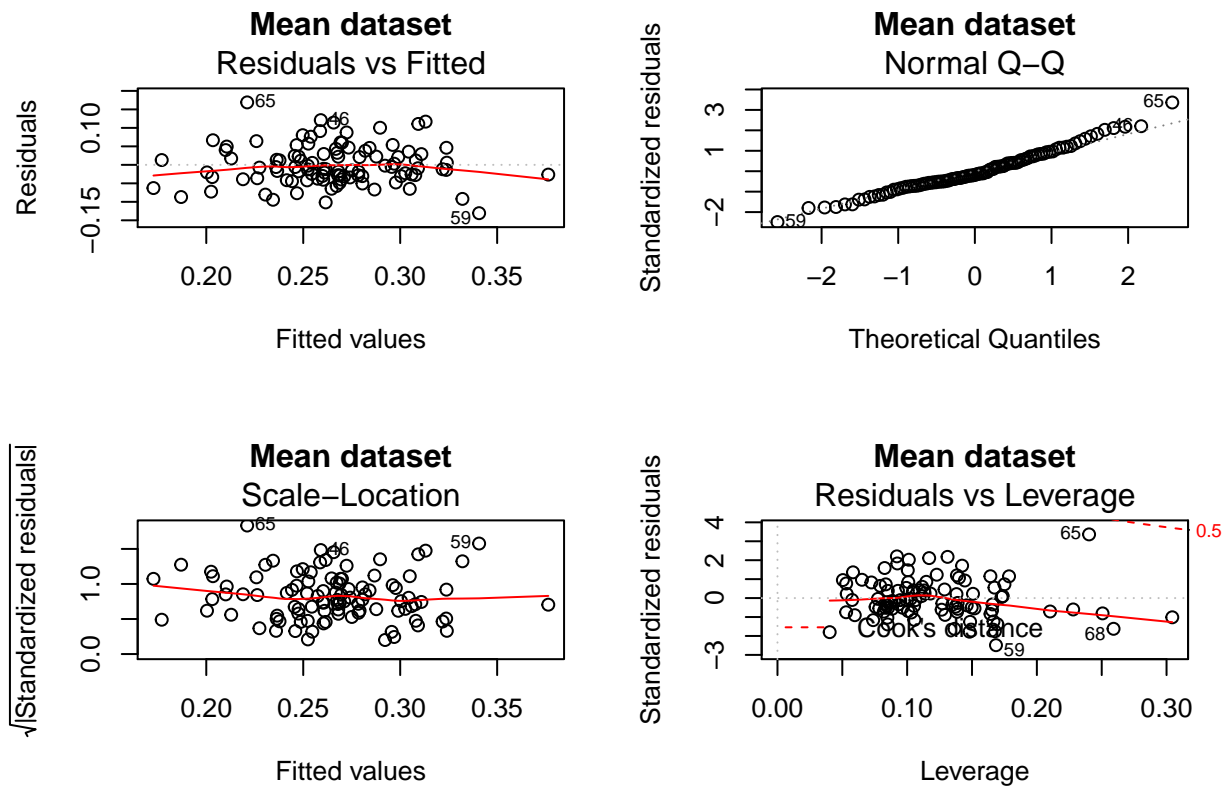


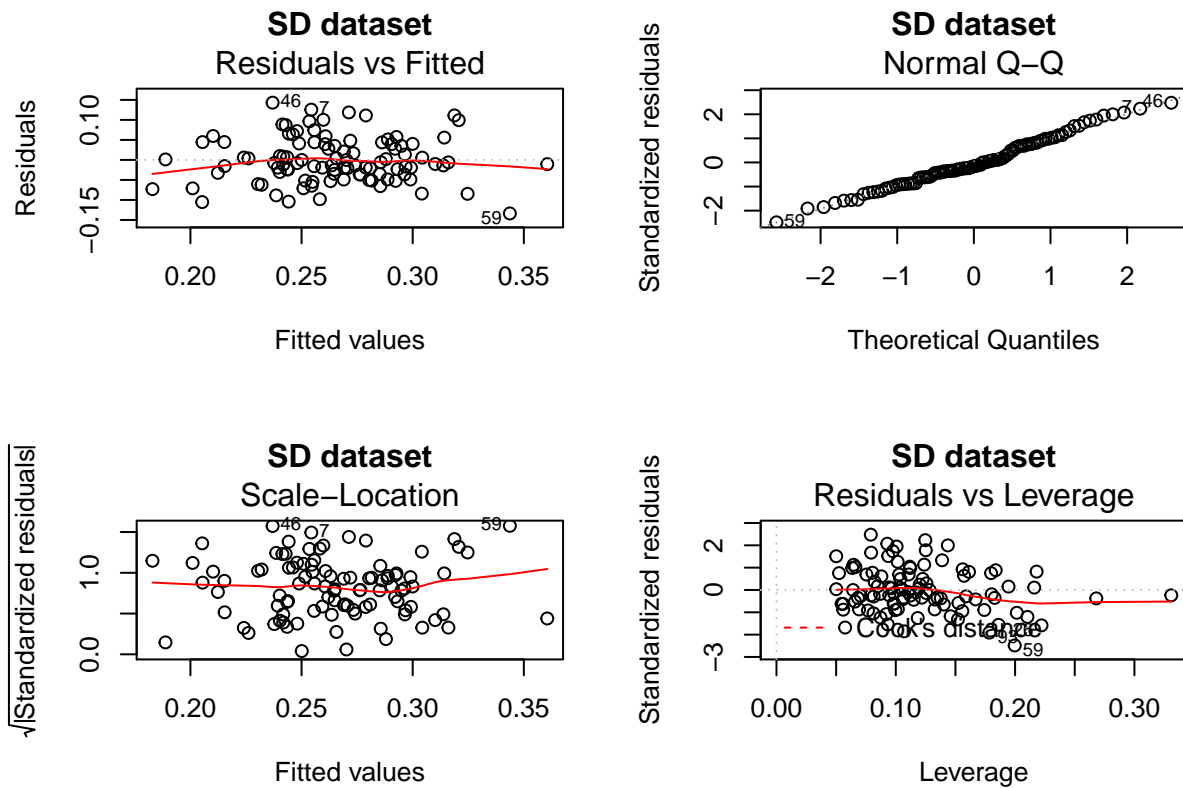
Analysng the effect of abiotic factors on z

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The two site with the highest values of PHI had high leverage in this model and were therefore removed from the data in order to give normally distributed residuals, the plots above were created after these values were removed.



```
## Northing      PHI      meandbh      meanph      Buffer      meanSOM
## 1.721261  1.219326  2.031493  1.356264  1.816954  1.158692
## meanLBA      meanTD area_ratio      no_NVC      no_MSG
## 1.708121  1.955180  1.230977  1.292059  1.263801
```

The variance inflation factors in the mean dataset are low, suggesting that correlations between covariates are low and not likely to increase the variance of the parameter estimates.

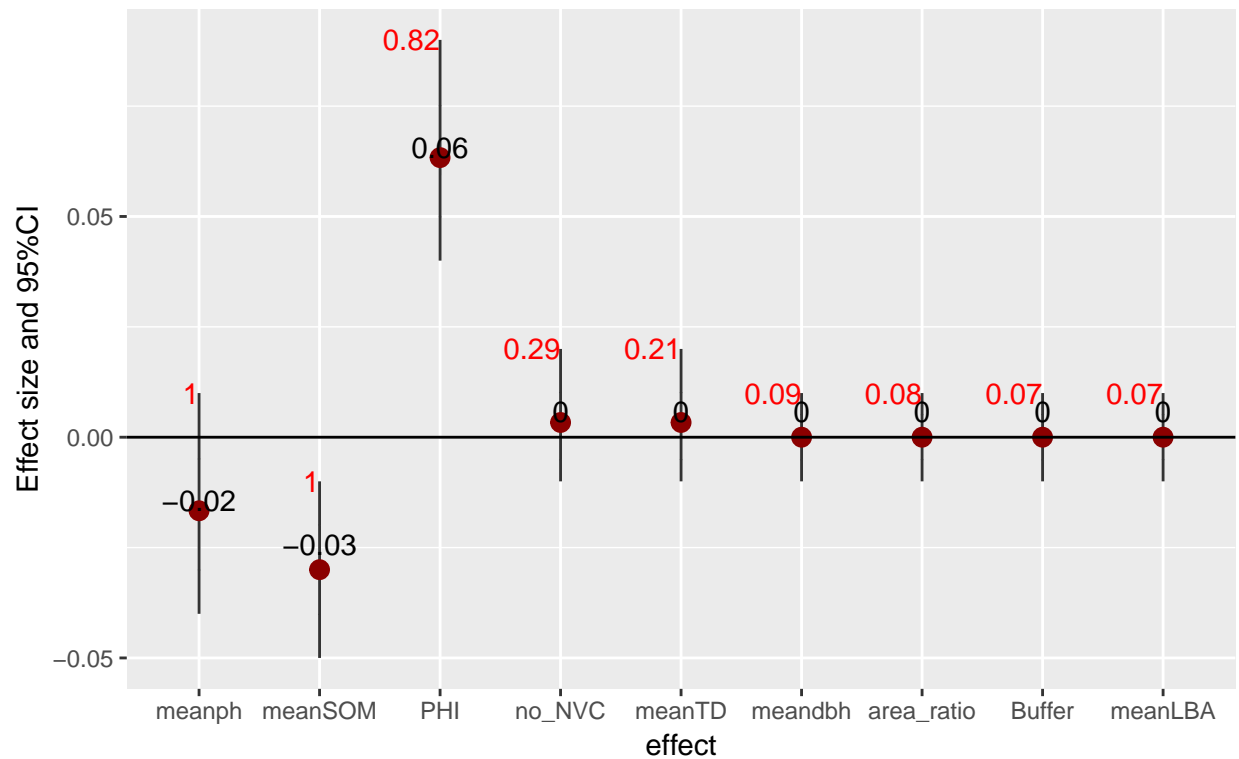
```
## Northing      PHI      Buffer      no_MSG      no_NVC      sd_pH
## 1.713097  1.275714  1.860168  1.241747  1.277452  1.328220
## sd_SOM      sd_LBA sd_meandbh      sd_TD area_ratio
## 1.412783  1.188175  1.521227  1.501602  1.257226
```

The variance inflation factors in the sd dataset are low, suggesting that corr

The first ten models from the mean dataset, which had a $\Delta < 2$ were selected from the MuMin dredge function as the top model set.

Model averaged results for delta <2, Nest Zs

numbers in red are variable importance



The graph shows the averaged effect sizes of the model with delta < 2. PHI and soil organic matter can be seen to effect the value of z.

Using the model for prediction

Observed versus predicted data

$R^2 = 0.28$

