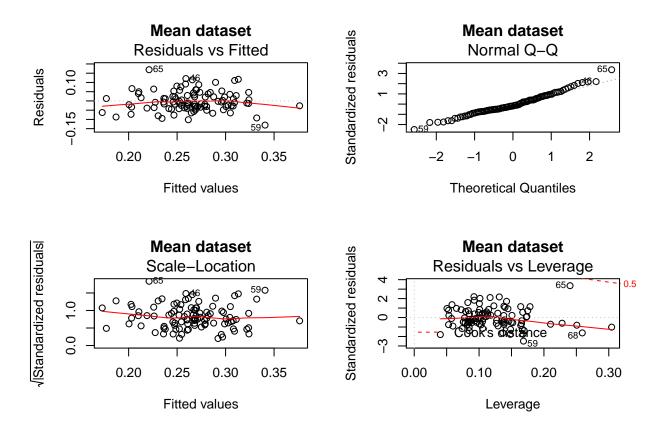
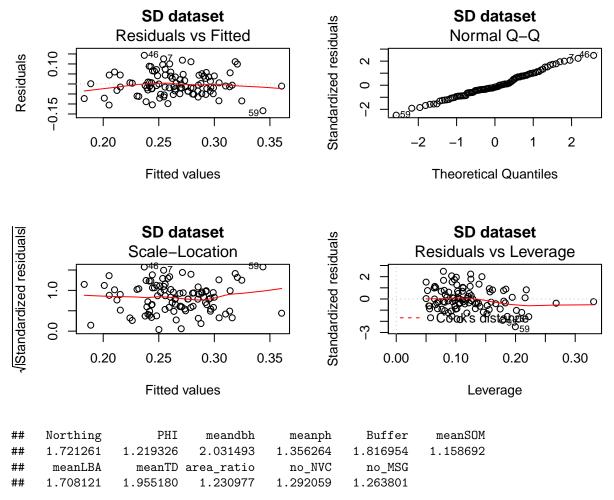
Analysing the effect of abiotic factors on z

Petra Guy 10 May 2018



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.



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.

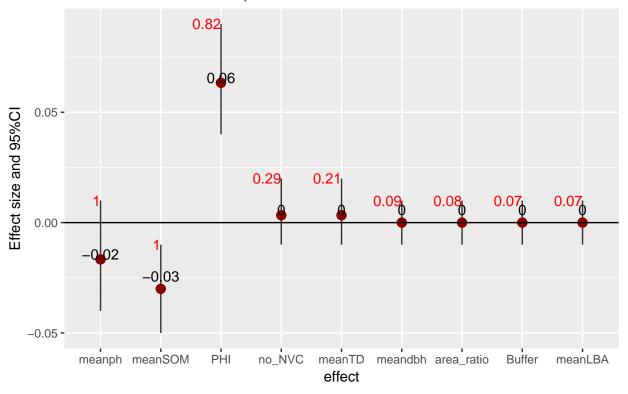
##	Northing	PHI	Buffer	${\tt no_MSG}$	${\tt no_NVC}$	sd_pH
##	1.713097	1.275714	1.860168	1.241747	1.277452	1.328220
##	sd_SOM	$\mathtt{sd}_{\mathtt{LBA}}$	sd_meandbh	sd_TD	area_ratio	
##	1.412783	1.188175	1.521227	1.501602	1.257226	

The variance inflation factors in the sd dataset are also low

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

Model averaged results for delta <2, Nest Zs, Mean dataset

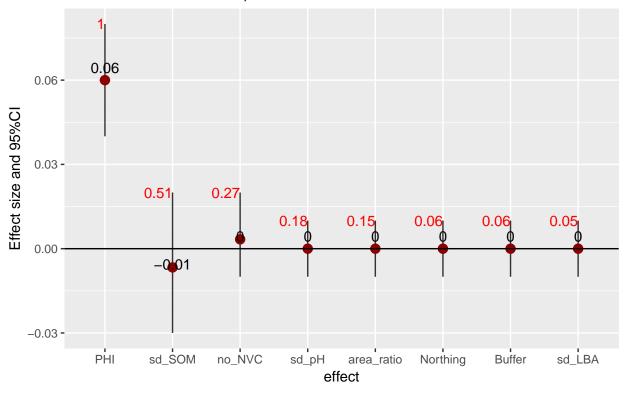
numbers in red are variable importance



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.

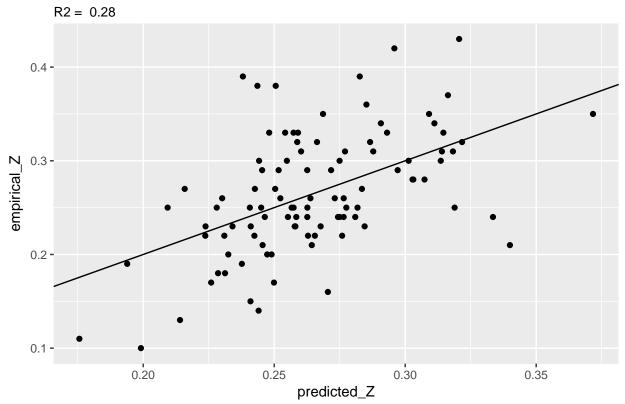
Model averaged results for delta <2, Nest Zs, SD dataset

numbers in red are variable importance



Using the model for prediction

Observed versus predicted data, mean dataset



Observed versus predicted data, sd dataset

