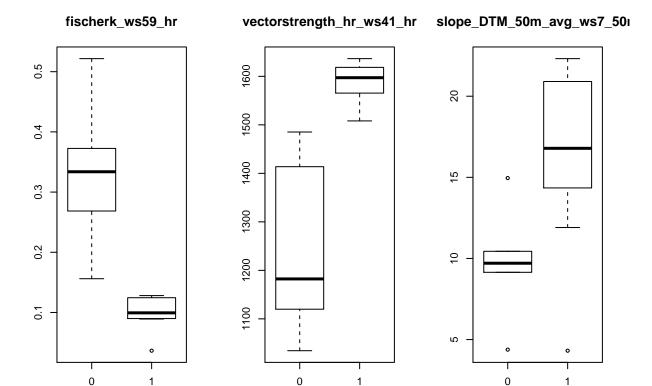
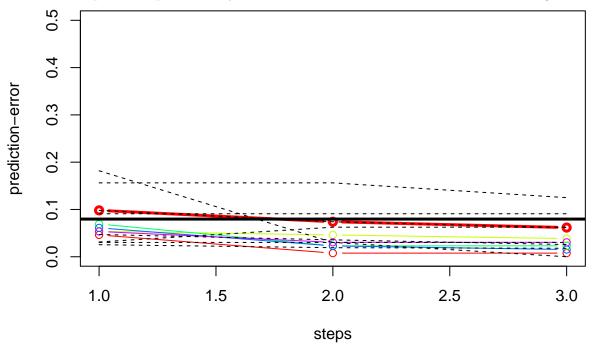
profilepoint analysis alluvial deposits

fabian gruber October 24, 2017

```
cl1= "AD"
dependent="correct"
relevantmodeldata <- modeldataoktober[(modeldataoktober$SGU_kartiert == as.character(cl1)),]
relevantmodeldata$correct <- ifelse(relevantmodeldata$SGU_kartiert == relevantmodeldata$SGU_gk,1,0)
relevantmodeldata$correct<-as.factor(relevantmodeldata$correct)</pre>
summary(relevantmodeldata$correct)
## 0 1
## 6 7
allimp <- increaseacc(modeldata = relevantmodeldata,pset = 5,dependent = dependent)</pre>
## Loading required package: knitr
## [1] "OBB error with all predictors of allpreds is 0.153846153846154"
roughimp <- increaseacc(modeldata = relevantmodeldata, pset = 3, dependent = dependent)
## [1] "OBB error with all predictors of roughness is 0.0769230769230769"
localimp <- increaseacc(modeldata = relevantmodeldata,pset = 1,dependent = dependent)</pre>
## [1] "OBB error with all predictors of localterrain is 0.692307692307692"
  par(mfcol=c(1,3))
boxplot(data=relevantmodeldata[c(as.character(rownames(allimp)[1]),dependent)],as.formula(paste(as.char
boxplot(data=relevantmodeldata[c(as.character(rownames(roughimp)[1]),dependent)],as.formula(paste(as.ch
boxplot(data=relevantmodeldata[c(as.character(rownames(localimp)[1]),dependent)],as.formula(paste(as.ch
```

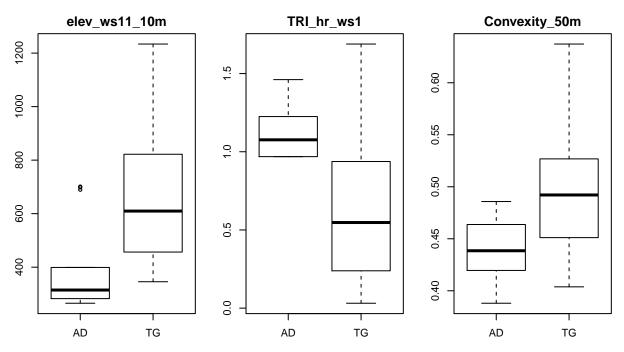


How are these points morphometrically different from others For instance different to till in general



```
## [1] "Prediction error at end is: 0.0981060606060606"
## [2] "Prediction error at end is: 0.0740530303030303"
## [3] "Prediction error at end is: 0.0617424242424242"
## k 1 k 2
## 1 elev_ws15_10m maxic_ws11_10m
## 2 geom_hr_L3_fl10_rplipsimpson_UE_hr_60cells_hr elev_ws11_10m
## 3 geom_hr_L3_fl11_rplippatchnum_UE_hr_60cells_hr elev_ws5_10m
```

```
##
                                                    k 3
## 1
                                          elev_ws11_10m
                                                            elev_ws11_10m
## 2 geom_hr_L3_f11_rplippatchdensity_UE_hr_60cells_hr dtm_hr_TEXTURE_r5
           geom_hr_L3_fl1_rplipshannon_UE_hr_5cells_hr
                                                               TRI_hr_ws5
             dtm_hr_TEXTURE_r5
## 1
## 2 profc_DTM_50m_avg_ws5_50m
## 3
                 elev_ws11_10m
4
3 -
2
                       elev_ws11_10m
##
             allchosen Freq
## 2
         elev_ws11_10m
## 1 dtm_hr_TEXTURE_r5
## [1] "OBB error with all predictors of allpreds is 0.0613496932515337"
## [1] "OBB error with all predictors of roughness is 0.0674846625766871"
\#\# [1] "OBB error with all predictors of local
terrain is 0.0797546012269939"
```



How does this compare to the differences between the units on the geological map?

- ## [1] "OBB error with all predictors of allpreds is 0.043758329631275"
- ## [1] "OBB error with all predictors of roughness is 0.124777975133215"
- ## [1] "OBB error with all predictors of local terrain is 0.0966526269119929"

