

R Notebook - W100

Getting mean and SD for water content at 100cm sunction

```
library("plyr")
library("dplyr")

## 
## Attaching package: 'dplyr'
## The following objects are masked from 'package:plyr':
##   arrange, count, desc, failwith, id, mutate, rename, summarise,
##   summarise
## The following objects are masked from 'package:stats':
##   filter, lag
## The following objects are masked from 'package:base':
##   intersect, setdiff, setequal, union

MAC = F
WIN = F
if (MAC) {
  if (WIN){
    path = file.path("C:/Users/DayTimeChunks/Documents/PhD/...")
  } else {
    path = file.path("/Users/DayTightChunks/Documents/PhD/...")
  }
} else {
  path = file.path("D:/Documents/these_pablo/Models/BEACH2016/DataInput/Tables/DataSource")
}

s = read.csv(file.path(path, "W100.csv"), sep = ";", dec = ".")  

s <- s[, c("Depth.cm", "W100")]
sumS = dplyr(s, c("Depth.cm"),
             summarise,
             SD = sd(W100),
             meanW100 = mean(W100)
           )
library("tidyverse")

## Warning: package 'tidyverse' was built under R version 3.3.3
ss = separate(data = sumS, col = Depth.cm, into = c("shallow", "deep"), sep = "-")

ss$shallow = as.numeric(ss$shallow)

z2 = subset(ss, shallow > 25 & shallow < 155) # 250 to 1550 mm
```

```
z3 = subset(ss, shallow >= 155) # > 1550mm  
mean(z2$meanW100)  
  
## [1] 0.3835952  
mean(z3$meanW100)  
  
## [1] 0.379735
```

Save

```
write.csv(ss, file.path(path, "W100summary_R.csv"))
```