

Observed Data Prep for Model Analysis - Soils

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Purpose

Generate BEACH calibration data with:

- groupAlteck2016_R.csv (Book 04)

Lab parameters and field constants

```
if (MAC) {  
  if (WIN){  
    path = file.path("C:/Users/DayTimeChunks/Documents/PhD/HydrologicalMonitoring")  
  
  } else {  
    # path = file.path("/Users/DayTightChunks/Documents/PhD/HydrologicalMonitoring")  
    path = file.path("/Users/DayTightChunks/Documents/PhD/HydroMonitor/.nosync/HydrologicalMonitoring")  
    time = read.csv2("/Users/DayTightChunks/Documents/PhD/Models/.nosync/pesti-beach16/Analysis/Data/Tin")  
    time$DayMoYr = as.POSIXct(strptime(time$date, "%d/%m/%Y", tz="EST"))  
  }  
} else {  
  path = file.path("D:/Documents/these_pablo/Alteckendorf2016/HydrologicalMonitoring")  
  time = read.csv2("D:/Documents/these_pablo/Models/BEACH2016/Analysis/Data/Time.csv")  
  time$DayMoYr = as.POSIXct(strptime(time$date, "%d/%m/%Y", tz="EST"))  
}  
source(file.path(path, "global.R"))
```

Packages

```
# Plotting functions  
library("scales")  
library("tidyverse")  
library("dplyr")  
library("reshape")  
library("zoo") # na.approx()
```

Working directory

```
# setwd("D:/Documents/these_pablo/Alteckendorf2016/R")  
  
# MAC  
# setwd("/Users/DayTightChunks/Documents/PhD/Routput/Alteck/R")
```

```

# Mac-WIN
# setwd("C:/Users/DayTightChunks/Documents/Models/pesti-beach16/Analysis/Data")
getwd()

## [1] "/Users/DayTightChunks/Documents/PhD/Models/.nosync/pesti-beach16/Analysis/Data"

```

Merge Transects with Time (Julian Days)

```

s = read.csv2(file.path(path, "Data/MonitoringScopeSoils_R.csv"))

#q$Date = as.POSIXct(strptime(q$DateCheck, "%d/%m/%Y %H:%M", tz="EST"))
s$DayMoYr = as.POSIXct(strptime(s$Date.Soil, "%d/%m/%Y", tz="EST"))

north = subset(s, Transect == "N")
valley = subset(s, Transect == "T")
south = subset(s, Transect == "S")

njd = merge(time, north, by = "DayMoYr", all = T)
vjd = merge(time, valley, by = "DayMoYr", all = T)
sjd = merge(time, south, by = "DayMoYr", all = T)

write.table(njd, "BEACH_R/north.tss", sep="\t", row.names = F)
write.table(vjd, "BEACH_R/valley.tss", sep="\t", row.names = F)
write.table(sjd, "BEACH_R/south.tss", sep="\t", row.names = F)

```