

Response of *Pinguicula vulgaris* to geothermal heating

Data preparation

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Read data from Excel files

```
ping_17 <- read_excel("data/raw/Hengill 2017.xlsx", sheet = "Pinguicula")
ping_17_peak <- read_excel("data/raw/Hengill 2017.xlsx",
                           sheet = "Peak Pinguicula")
```

Remove rows with all NAs

```
ping_17 <- ping_17 %>% drop_na(X:Y) %>% # Removing one row with all NAs
  filter(X!="X") # Removing one row with all NAs written as "X"
```

Change column types and remove rows with no info on peak

```
ping_17 <- ping_17 %>% mutate(plot=as.factor(Plot),id=as.factor(Indv),
                             x=as.numeric(X),y=as.numeric(Y),
                             peak=as.factor(ifelse(Peak=="X",1,0)),
                             comments=Comments,
                             date1=as.Date(Date...7,format="%d.%m.%y"),
                             temp=as.numeric(Temp),stage1=Stage...9,
                             date2=as.Date(Date...10,format="%d.%m.%y"),
                             stage2=Stage...11,
                             date3=as.Date(Date...12,format="%d.%m.%y"),
```

```

stage3=Stage...13,
date4=as.Date(Date...14,format="%d.%m.%y"),
stage4=Stage...15,
date5=as.Date(Date...16,format="%d.%m.%y"),
stage5=Stage...17,
date6=as.Date(Date...18,format="%d.%m.%y"),
stage6=Stage...19) %>%
select(-(Plot:Stage...19)) %>%
filter(peak==1) %>%
select(-peak)

```

Add info on peak

```

#ping_17_peak <- ping_17_peak %>% mutate(plot=as.factor(Plot),id=as.factor(Indv),
#                                     date=)

```