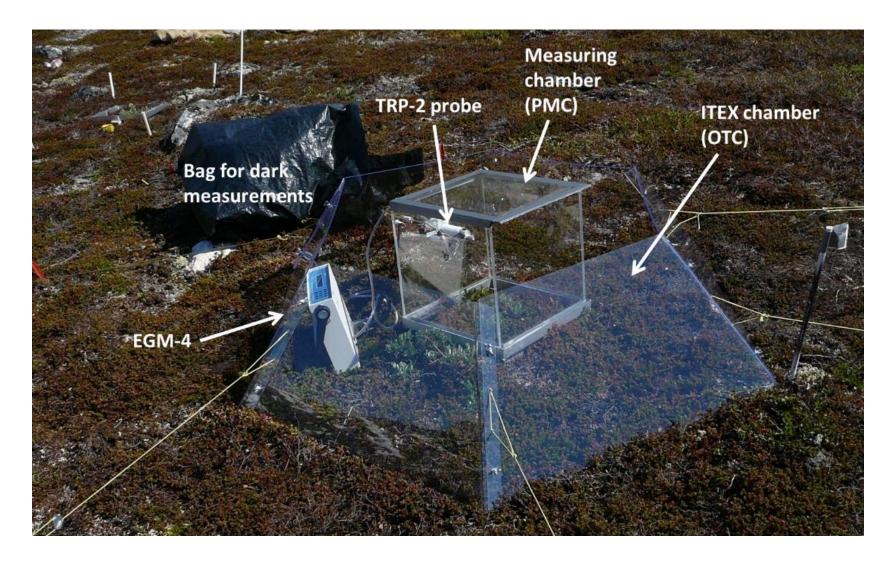


## 100 manuelle skridt i et ét skript

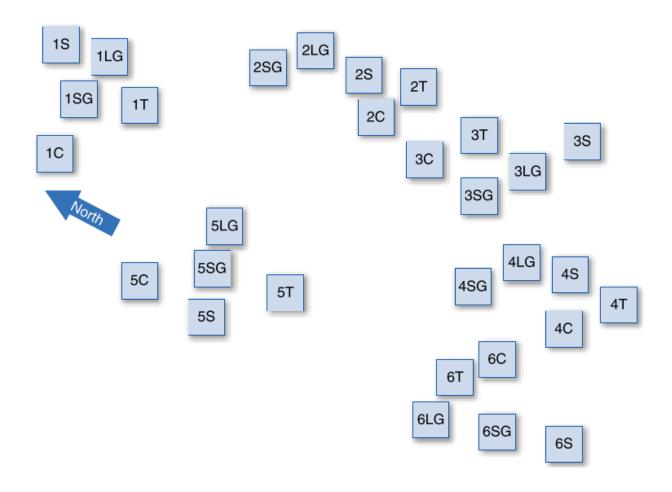
Ida Bomholt Dyrholm Jacobsen Biolog, Pingortitalieriffik







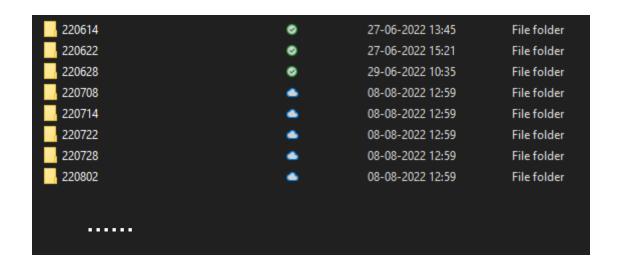




1c d.txt	•	02-08-2022 10:35	Text Document	29 KB
1c.txt	•	02-08-2022 10:31	Text Document	29 KB
1lg d.txt	•	02-08-2022 10:59	Text Document	30 KB
1lg.txt	•	02-08-2022 10:55	Text Document	28 KB
1s d.txt	•	02-08-2022 10:51	Text Document	29 KB
1s.txt	•	02-08-2022 10:47	Text Document	30 KB
1sg d.txt	•	02-08-2022 10:43	Text Document	32 KB
1sg.txt	•	02-08-2022 10:39	Text Document	26 KB
1t d.txt	•	02-08-2022 11:06	Text Document	29 KB
1t.txt	•	02-08-2022 11:03	Text Document	30 KB
2c d.txt	•	02-08-2022 11:36	Text Document	26 KB
2c.txt	•	02-08-2022 11:32	Text Document	29 KB
🗎 2lg d.txt	•	02-08-2022 11:21	Text Document	27 KB
2lg.txt	•	02-08-2022 11:17	Text Document	27 KB
2s d.txt	•	02-08-2022 11:29	Text Document	28 KB
2s.txt	•	02-08-2022 11:25	Text Document	27 KB
2sg d.txt	•	02-08-2022 11:14	Text Document	27 KB
2sg.txt	•	02-08-2022 11:10	Text Document	28 KB
2t d.txt	•	02-08-2022 11:44	Text Document	29 KB
2t.txt	•	02-08-2022 11:40	Text Document	29 KB
3c d.txt	•	02-08-2022 11:51	Text Document	29 KB
3c.txt	•	02-08-2022 11:48	Text Document	28 KB
🗎 3lg d.txt	•	02-08-2022 12:15	Text Document	29 KB
📑 3lg.txt	•	02-08-2022 12:11	Text Document	28 KB
3s d.txt	•	02-08-2022 12:22	Text Document	29 KB
3s.txt	•	02-08-2022 12:18	Text Document	28 KB
📄 3sg d.txt	•	02-08-2022 12:07	Text Document	28 KB
<b>i</b> 3sg.txt	•	02-08-2022 12:04	Text Document	29 KB
3t d.txt	•	02-08-2022 12:00	Text Document	31 KB
ii 3t.txt	•	02-08-2022 11:56	Text Document	28 KB



### ... x alle snefrie uger





BEGIN RECORD							
DATE/TIME, DATA FORMAT.	. EVENT DATE, EVENT TIME,	PLOT NO. RECO	ORD NO, CO2, AIR PRESSURE	, FLOW RATE, H2O, H2O TE	MP, 02, SYSTEM ERROR, AUX	VOLTAGE, PAR, TSC	IL, TAIR, RH, P1, P2, P3, P4, P5
6/14/2022 10:27:29 AM,	E, 50	•			•		
6/14/2022 10:27:30 AM,							
6/14/2022 10:27:31 AM,	E, 50						
6/14/2022 10:27:32 AM,	E, 50						
6/14/2022 10:27:33 AM,	E, 50						
6/14/2022 10:27:34 AM,							
6/14/2022 10:27:35 AM,	M5,14/06/22,10:26:58,	1, 1259,	427. 1018.4. 300. 0.0.	0.0, 0.0, 0, 0.0000,	478, 0.0,10.8, 0.0, 3,	97, 96.94, 8.	241, 907
6/14/2022 10:27:40 AM,		-,,	,,,,	,, .,,	,,,,	,,	
6/14/2022 10:27:41 AM,	•						
6/14/2022 10:27:42 AM,	-						
6/14/2022 10:27:43 AM,	E, 50						
6/14/2022 10:27:44 AM,	E, 50						
6/14/2022 10:27:45 AM,	E, 50						
6/14/2022 10:27:45 AM,	•	1, 1269,	422, 1018.4, 300, 0.0,	0.0. 0.0. 50. 0.0000.	492, 0.0,10.9, 0.0, 3,	97, 96,94, 8.	240, 908
6/14/2022 10:27:46 AM,		-,,	,,,,	,,,	,,,,	,,	
6/14/2022 10:27:47 AM,	•						
6/14/2022 10:27:50 AM,	E, 50						
6/14/2022 10:27:51 AM,	E, 50						
6/14/2022 10:27:52 AM,	E, 50						
6/14/2022 10:27:53 AM,	E, 50						
6/14/2022 10:27:54 AM,	E, 50						
6/14/2022 10:27:55 AM,	M5,14/06/22,10:27:19,	1, 1279,	424, 1018.3, 300, 0.0,	0.0, 0.0, 0, 0.0000,	507, 0.0,10.9, 0.0, 3,	97, 96.94, 8.	240, 910
6/14/2022 10:27:58 AM,							•
6/14/2022 10:27:59 AM,							
6/14/2022 10:28:00 AM,	E, 50						
6/14/2022 10:28:01 AM,	E, 50						
6/14/2022 10:28:02 AM,	E, 50						
6/14/2022 10:28:03 AM,	E, 50						
6/14/2022 10:28:04 AM,	E, 50						
6/14/2022 10:28:05 AM,	M5,14/06/22,10:27:29,	1, 1289,	425, 1018.3, 300, 0.0,	0.0, 0.0, 0, 0.0000,	508, 0.0,11.0, 0.0, 3,	97, 96.94, 8.	240, 909
6/14/2022 10:28:10 AM,	E, 50						
6/14/2022 10:28:11 AM,	E, 50						
6/14/2022 10:28:12 AM,	E, 50						
6/14/2022 10:28:13 AM,	E, 50						
6/14/2022 10:28:14 AM,	E, 50						
6/14/2022 10:28:15 AM,	E, 50						
6/14/2022 10:28:15 AM,	M5,14/06/22,10:27:39,	1, 1299,	424, 1018.3, 300, 0.0,	0.0, 0.0, 50, 0.0000,	525, 0.0,11.1, 0.0, 3,	97, 96.94, 8.	239, 909
6/14/2022 10:28:16 AM,	E, 50						
6/14/2022 10:28:17 AM,	E, 50						
6/14/2022 10:28:20 AM,	E, 50						
6/14/2022 10:28:21 AM,	E, 50						
6/14/2022 10:28:22 AM,	E, 50						
6/14/2022 10:28:23 AM,	E, 50						
6/14/2022 10:28:24 AM,	E, 50						
6/14/2022 10:28:25 AM,	M5,14/06/22,10:27:49,	1, 1309,	423, 1018.3, 300, 0.0,	0.0, 0.0, 0, 0.0000,	538, 0.0,11.1, 0.0, 3,	97, 96.94, 8.	239, 909
6/14/2022 10:28:28 AM,	E, 50						
C/14/2022 10-28-20 AM	F F0						



#### 60 × snefrie uger ×...

- 1. Åbne fil
- 2. Filtrer egentlige målinger
- 3. Kopierer 13 målinger
- 4. Paste til dataark
- 5. Flyt til rigtige kolonner
- 6. Tilføj supplerende data
- 7. Manuel sense/kvalitetstjek af værdier



#### Alt sammen automatiseret i "ét" script

- 1. Åbne fil
- 2. Filtrer egentlige målinger
- 3. Kopierer 13 målinger
- 4. Paste til dataark
- 5. Flyt til rigtige kolonner
- 6. Tilføj supplerende data

- 1. Læser alle filer
  - Navngivning af plots fra filnavne
- 2. Filtrer egentlige målinger
- 3. Tager kun de første 13 målinger
- 4. Generer én fil med korrekte kolonner
- 5. Tilføj supplerende data
- 6. 'Automatisk' kvalitetssikring

```
1 library(fs)
 2 library(tidyverse)
 3 library(lubridate)
 4 library(janitor)
 5 library(zoo) #to be able to carry forward frame heights
 6
 8 - plot_name_from_filepath <- function(path) {</pre>
 9
      toupper(str_extract(basename(path), "[^_\\. ]*"))
10 - }
11
12 - na_locf_nocb<-function(x){
13
      x %>%
14
      na.locf(na.rm = FALSE) %>%
     na.locf(na.rm = FALSE, fromLast = TRUE)
15
16 • }
17
18 - cfluximport<-function(path){
        additional<-dir_ls(path, glob = "*.csv", recurse = 2) %>%
        read_csv()
20
21
22
        dir_ls(path, glob = "*.txt", recurse = 2) %>%
          read_csv(skip = 2, id = "path")%>%
23
          clean_names() %>%
24
25
          filter(data_format != "E")%>%
26
          group_by(path) %>%
          mutate(no = row_number()) %>%
28
          ungroup() %>%
          filter(no < 14) %>%
29
30
          mutate(light = if_else( par > 10, "L", "D"),
                 date = dmy(event_date),
31
                 DOY = yday(date).
32
                 year = year(date),
33
                 month = month(date),
34
35
                 day = day(date),
36
                 time = event_time.
37
          ) %>%
38
          mutate(plotid = plot_name_from_filepath(path),
                 plot = str_extract(plotid, "[0-9]*"),
39
40
                 treatment = str_replace_all(plotid, "[:digit:]",""))%>%
41
          left_join(additional, by = c('date', 'plotid')) %>%
          arrange(date, time) %>%
42
          group_by(plotid) %>%
43
44
          mutate_at(c("frame_height_1", "frame_height_2", "frame_height_3", "frame_height_4"), na_locf_nocb)%>%
45
          ungroup()
46 4 }
47
17-10-2022
```

```
source("cflux_import.R")
   path<-"C:\\Users\\idja\\OneDrive - Grønlands Naturinstitut\\General - BioBasis\\BioBasis_Nuuk_2022\\C-flux_2022\\C-flux raw"
   datafile <- cfluximport(path) %>%
      select(year,
 8
             month,
 9
             day,
10
             DOY,
11
             date,
12
             observer,
13
             plot,
14
             treatment,
15
             light,
16
             photo_no,
             cloud_cover,
17
18
             time,
19
             co2,
             air_pressure,
20
21
             par,
             tair,
22
23
             soil_moisture_1,
24
             soil_moisture_2,
             soil_moisture_3,
25
             frame_height_1,
26
             frame_height_2,
28
             frame_height_3,
29
             frame_height_4,
30
             remarks
31
32
   write_csv(datafile, file.path(path, "..", "c-flux_2022.txt"))
```

```
title: "cflux_check"
    author: "IBDJ"
    date: "29/6/2022"
 6
        df_print: kable
 8 - ---
 9 · ```{r include=FALSE}
10 library(fs)
11 library(tidyverse)
    library(lubridate)
    library(janitor)
13
14
    library(zoo) #to be able to carry forward frame heights
15 4
16
17
18 - [```{r include=FALSE}
                                                                                                                                               ☆ ≥ )
    source("cflux_import.R") #, local = knit::knit_global())
20 -
21
22 · ```{r include=FALSE}
                                                                                                                                               ☆ ヹ ▶
23
24
    data<-cfluximport("C:\\Users\\idja\\oneDrive - Grønlands Naturinstitut\\General - BioBasis\\BioBasis\\BioBasis\\Luuk_2022\\C-flux_2022\\C-flux raw")
25
26 ±
27
    will show a list of files that for some reason have more than 13 rows. An error is occuring if any files are listet.
29 -
    ```{r}
30
31
    data %>%
32
      count(path) %>%
33
34
      filter(n!=13)
35 △
36
37
38
    Check for any NA values. If output is FALSE everything is okay.
39 -
    ```{r}
                                                                                                                                               ☆ ∑ →
40 data %>%
41
      select(-starts_with("soil_"),-num_range("p",1:5),-remarks,-photo_no) %>%
42
      nrow() %>%
43
      is.na()
44
45 △
46
47 ~ ```{r}
48
49
```



#### Nye opmærksomhedspunkter

- 1. Filer skal være navngivet rigtigt
- 2. Praktisk udførelse skal være korrekt timet

#### R læring

- 1. Hvis du kan ønske dig det, så kan det gøres i R
- 2. Det er brugbart og ikke svært at lave funktioner
- 3. Strukturering af funktioner, kørsel og 'rapportering'



# Tak for jeres opmærksomhed

Spørgsmål?