## Ameriflux Data Submission Landscape Flux

### Riasad Bin Mahbub and Benjamin Runkle

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#### Introduction and instruction links

This is an R Markdown document. In this document we are trying to compile the information of the landscape flux 2018-2023 data for AmeriFlux submission. The guidelines for this submission can be obtained from these links:

- YTvideo AMP webinar series: Submitting BADM in CSV format
- YTvideo AMP webinar series: Post-submission data life cycle: FP-In to BASE publishing
- AmeriFlux submission instructions
- AmeriFlux Data Submission PDF
- AmeriFlux Variable Information Instructions
- Uploading Half-Hourly/Hourly Data to AmeriFlux

#### Location of the files

The location of the data can be obtained from these directories. Shared directory is the directory of the landscape flux group where the data are kept. The data were copied from the shared directory to local directory (rbmhabub's computer) to do the processing of the data

In shared directory:

Way3 Directory: "Y:/Rice/MasterFileSets/Way3/2021\_11\_20" Way4 Directory: "Y:/Rice/MasterFileSets/Way4/2021\_11\_20"

In local directory:

Way3 Directory: "C:/Users/rbmahbub/Documents/RProjects/AmerifluxDataSubmission LandscapeFlux/Data/Way3"

Way4 Directory: "C:/Users/rbmahbub/Documents/RProjects/AmerifluxDataSubmission\_LandscapeFlux/Data/Way4"

#### Reading the files and fixing the timestamp

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## read the files
# Set the directory path and file name
directory_path <- "C:/Users/rbmahbub/Documents/RProjects/AmerifluxDataSubmission_LandscapeFlux/Data/Way.
file_name <- "Way3 2018.csv"
file_path <- file.path(directory_path, file_name)

# Read the CSV file
way3_2018_data <- read.csv(file_path)</pre>
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# Display the first few rows of the data
# Create TIMESTAMP_START and TIMESTAMP_END columns
way3_2018_data <- cbind(TIMESTAMP_START = NA, TIMESTAMP_END = NA, way3_2018_data)
head(way3_2018_data)</pre>
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##
     H_gf H_mod LE_raw LE_qc LE_gf LE_mod co2_raw co2_qc co2_gf co2_mod ch4_raw
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     ch4_qc ch4_gf ch4_mod WT_gf RECORD.x BattV_Min BattV_Avg WS_Avg WD_Avg
##
## 1
                                                             11.19 5.020 88.00
        NaN
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                         NaN
                               NaN
                                        3412
                                                  11.15
## 2
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                                                  11.09
                                                             11.16 5.297 115.80
        NaN
                         NaN
                                        3413
## 3
                                                             11.15 6.109 107.50
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                               NaN
                                        3414
                                                  11.12
                                                             11.14 5.335 71.99
## 4
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                                        3415
                                                  11.10
## 5
        NaN
                NaN
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                                                  11.08
                                                             11.12 5.515 139.00
                         NaN
                                        3416
## 6
        NaN
                NaN
                         NaN
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                                        3417
                                                  11.07
                                                             11.10 5.127 129.90
     WS_S_WVT WS_U_WVT WD_DU_WVT WD_SDU_WVT CNR4Temp_K_Avg
## 1 5.020032 4.678991 5.7313680
                                      21.11226
                                                          265.9
                                                          265.5
## 2 5.296957 5.002203 2.0431910
                                      19.10741
## 3 6.109135 5.629690 4.0062620
                                      22.69156
                                                          265.2
## 4 5.334539 4.988176 8.3386190
                                      20.63964
                                                          264.9
```

```
## 5 5.515258 5.137754 0.2776505
                                     21.19154
                                                        264.7
## 6 5.126816 4.832648 1.9998430
                                     19.40254
                                                        264.4
                                           METFILEID pH_Avg TA_1_1_1_Avg
## 1 TOA5_9811.Tbl30Min_23 (2)_2017_12_29_1700.dat -0.261
## 2 TOA5_9811.Tbl30Min_23 (2)_2017_12_29_1700.dat -0.227
                                                                    -7.491
         TOA5 9811.Tbl30Min 24 2018 01 01 0100.dat -0.213
                                                                    -7.880
         TOA5 9811.Tbl30Min 24 2018 01 01 0100.dat -0.189
                                                                    -8.120
         TOA5_9811.Tbl30Min_24_2018_01_01_0100.dat -0.166
## 5
                                                                    -8.340
## 6
         TOA5_9811.Tbl30Min_24_2018_01_01_0100.dat -0.144
                                                                    -8.650
     RH_1_1_1_Avg SW_IN_Avg SW_OUT_Avg LW_IN_Avg LW_OUT_Avg LW_IN_T_Corr_Avg
            46.08
                      -3.945
                                  1.219
                                            -76.02
                                                         16.00
            49.70
                      -3.737
## 2
                                   1.159
                                            -72.92
                                                                           208.8
                                                         16.83
## 3
            50.87
                      -3.374
                                   1.036
                                            -68.88
                                                         17.14
                                                                           211.4
## 4
            52.20
                      -3.435
                                   1.079
                                            -66.58
                                                         18.15
                                                                           212.7
                                            -70.13
## 5
            53.24
                      -3.543
                                                                           208.2
                                   1.185
                                                         18.19
## 6
            54.11
                      -3.624
                                   1.217
                                            -69.69
                                                         18.90
                                                                           207.3
     LW_OUT_T_Corr_Avg NETRAD_Avg ALB_Avg PAR_IN_Avg PAR_IN_Max
                                                                          PAR_IN_TMx
                  299.3
                             -97.2
                                    -30.85
                                                 0.000
                                                             0.092 12/31/2017 23:33
                                                             0.092
## 2
                  298.5
                             -94.6 -30.99
                                                 0.000
                                                                       1/1/2018 0:19
## 3
                  297.4
                             -90.4 -30.71
                                                 0.000
                                                             0.092
                                                                       1/1/2018 0:53
                             -89.2 -31.36
## 4
                  297.4
                                                 0.000
                                                             0.092
                                                                       1/1/2018 1:23
## 5
                  296.5
                             -93.0 -33.46
                                                 0.001
                                                             0.092
                                                                       1/1/2018 1:53
                                                             0.092
                  295.9
                             -93.4 -33.65
                                                                       1/1/2018 2:27
## 6
                                                 0.000
                       PAR IN TMn PAR OUT Avg PAR OUT Max
                                                                 PAR OUT TMx
##
     PAR IN Min
                                         0.021
                                                      0.179 12/31/2017 23:31
## 1
              0 12/31/2017 23:30
## 2
              0
                    1/1/2018 0:00
                                         0.020
                                                      0.089
                                                               1/1/2018 0:25
## 3
              0
                    1/1/2018 0:30
                                         0.020
                                                      0.179
                                                               1/1/2018 0:37
## 4
              0
                    1/1/2018 1:00
                                         0.024
                                                      0.179
                                                               1/1/2018 1:16
## 5
              0
                    1/1/2018 1:30
                                         0.028
                                                      0.179
                                                               1/1/2018 1:58
## 6
              0
                    1/1/2018 2:00
                                         0.020
                                                      0.089
                                                               1/1/2018 2:29
##
     PAR OUT Min
                       PAR_OUT_TMn PAR_Tot_IN_Tot PAR_Tot_OUT_Tot
                                                                        APAR Avg
## 1
                0 12/31/2017 23:30
                                       0.000066800
                                                         0.01410234 -0.02083037
## 2
                0
                     1/1/2018 0:00
                                       0.000133675
                                                         0.01363486 -0.01996772
## 3
               0
                     1/1/2018 0:30
                                                         0.01356841 -0.01993562
                                       0.000133680
## 4
                0
                     1/1/2018 1:00
                                       0.000200523
                                                         0.01610869 -0.02360404
## 5
               0
                     1/1/2018 1:30
                                       0.000334213
                                                         0.01871594 -0.02726964
               0
                     1/1/2018 2:00
                                       0.000200533
                                                         0.01370303 -0.02003323
##
     Redox_1_Avg Redox_2_Avg Redox_3_Avg WSDiag_Tot TA_1_2_1_Avg RH_1_2_1_Avg
## 1
           364.1
                        409.3
                                     369.2
                                                     0
                                                             -6.899
                                                                            48.28
                                                     0
## 2
           362.4
                        407.3
                                     367.1
                                                             -7.313
                                                                            52.13
## 3
                                                     0
                                                             -7.676
           361.2
                        406.1
                                     365.9
                                                                            52.78
## 4
           359.7
                        404.5
                                     364.3
                                                     0
                                                             -7.912
                                                                            54.28
                                                     0
## 5
           358.1
                        402.9
                                     362.7
                                                             -8.130
                                                                            55.30
                                                     0
                                                             -8.430
                                                                            56.08
## 6
           356.5
                        401.3
                                     361.1
     WLM_Us_1_Avg TA_2_1_2_Avg TA_Avg RH_Avg HF1_Avg HF2_Avg HF3_Avg SHF_Cal.1.
## 1
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                         -6.925
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## 2
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## 3
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## 4
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                         -7.921
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     SHF_Cal.2. SHF_Cal.3. TS1_Avg TS2_Avg TS3_Avg SWUp_Avg SWDn_Avg
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##
     LWUpTempCorr_Avg LWDnTempCorr_Avg Hyp1_1_Avg Hyp1_2_Avg WaterTemp_Avg
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##
     WaterDepth_V_Avg WaterDepth_Avg LWUp_RAW_Avg LWDn_RAW_Avg TA_Lower_Avg
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##
     RH_Lower_Avg DOmV DOppm PAR_Den_up_Avg PAR_Den_up PAR_Tot_up_Tot
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     PAR_Den_dn_Avg PAR_Den_dn PAR_Tot_dn_Tot ORP_Avg Pt1_Avg Pt2_Avg Pt3_Avg
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##
     VWC_3.x Ts_3.x BRP_3.x EC_3.x VWC_6.x Ts_6.x BRP_6.x EC_6.x VWC_3_Avg.x
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##
     Ts_3_Avg.x BRP_3_Avg.x EC_3_Avg.x VWC_6_Avg.x Ts_6_Avg.x BRP_6_Avg.x
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     EC_6_Avg.x response..1..x response..2..x response..3..x response..4..x
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     WLM_Us_1 WLM_Us_1_Min WLM_Us_1_TMn WLM_Us_1_Max WLM_Us_1_TMx TA_2_1_1_Avg
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##
     RH_2_1_1_Avg
                         RN Volts Volts.1 Deg.C X. W.m.2 W.m.2.1 W.m.2.2 W..m.2mV.
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##
     W..m.2mV..1 W..m.2mV..2 Deg.C.1 Deg.C.2 Deg.C.3 W.m.2.3 W.m.2.4 W.m.2.5
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     W.m.2.6 Deg.C.4 Deg.C.5
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     Deg Deg.1 Deg.C.6 mV cm W.m.2.7 W.m.2.8
                                                       K Deg.C.7 X..1 mV.1 ppm
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##
     umol.s.m.2 umol.s.m.2.1 mmol.m.2 umol.s.m.2.2 umol.s.m.2.3 mmol.m.2.1 X..2
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## 6 NaN NaN NaN NaN NaN NaN NaN NaN NaN
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       X X.1 X.2 X.3 X.4 X.5 X.6 X.7 X.8 mV.2 mV.3 mV.4 mV.5 mV.6 Deg.C.8 X..10
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                                                                           NaN
                                                                                 NaN
## 4 NaN NaN NaN NaN NaN NaN NaN NaN
                                             NaN
                                                  NaN
                                                       NaN
                                                             NaN
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                                                                  NaN
                                                                                 NaN
## 5 NaN NaN NaN NaN NaN NaN NaN NaN NaN
                                             NaN
                                                  NaN
                                                       NaN
                                                             NaN
                                                                  NaN
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## 6 NaN NaN NaN NaN NaN NaN NaN NaN
                                             {\tt NaN}
                                                  {\tt NaN}
                                                       \mathtt{NaN}
                                                             NaN
                                                                  NaN
                                                                           NaN
                                                                                 NaN
     Deg.C.9 X..11 W.m.2.9 W.m.2.10 W.m.2.11 W.m.2.12 W.m.2.13 W.m.2.14 W.m.2.15
## 1
         NaN
                NaN
                        NaN
                                  NaN
                                            NaN
                                                     NaN
                                                               NaN
                                                                         NaN
                                                                                   NaN
## 2
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                NaN
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## 3
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## 4
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## 5
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                                  NaN
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                                                               NaN
                                                                         NaN
                                                                                   NaN
## 6
         NaN
                NaN
                        NaN
                                  NaN
                                            NaN
                                                     NaN
                                                               NaN
                                                                         NaN
                                                                                   NaN
     X..12 umol.s.m.2.4 umol.s.m.2.5 X.9 umol.s.m.2.6 X.10
                                                               umol.s.m.2.7
## 1
       NaN
                     NaN
                                   NaN NaN
                                                           NaN
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                                                                         NaN
## 2
       NaN
                     NaN
                                   NaN NaN
                                                     NaN
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## 3
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                                   NaN NaN
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## 4
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                                   NaN NaN
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                                                           NaN
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## 5
       NaN
                     NaN
                                   NaN NaN
                                                     NaN
                                                           NaN
                                                                         NaN
##
  6
                                   NaN NaN
                     NaN
                                                     NaN
                                                           NaN
                                                                         NaN
     umol.s.m.2.8 X.11 umol.s.m.2.9 X.12 mmol.m.2.2 mmol.m.2.3 umol.s.m.2.10 mV.7
##
## 1
               NaN
                    NaN
                                  NaN
                                       NaN
                                                   NaN
                                                               NaN
                                                                              NaN
                                                                                   NaN
## 2
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  3
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##
  4
                                       NaN
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                                  NaN
                                                                              NaN
## 5
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                                                               NaN
                                                                              NaN
                                                                                    NaN
## 6
               NaN
                    NaN
                                  NaN
                                       NaN
                                                   NaN
                                                               NaN
                                                                              NaN
                                                                                    NaN
     mV.8 mV.9 unitless cm.1 Deg.C.10 X..13 Deg.C.11 cm.2 cm.3 X.13 cm.4
                                                                              X.14
## 1
      NaN
           NaN
                     NaN
                          NaN
                                    NaN
                                           NaN
                                                    NaN
                                                          NaN
                                                               NaN
                                                                    NaN
                                                                          NaN
                                                                               NaN
## 2
      NaN
           NaN
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                                    NaN
                                           NaN
                                                    NaN
                                                         NaN
                                                               NaN
                                                                    NaN
                                                                          NaN
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## 3
      NaN
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                                           NaN
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                                                                    NaN
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## 4
      NaN
           NaN
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                                                          NaN
                                                                    NaN
                                                                               NaN
                     NaN
                                    NaN
                                           NaN
                                                    NaN
                                                               NaN
                                                                          NaN
## 5
      NaN
           NaN
                     NaN
                          NaN
                                    NaN
                                                          NaN
                                           NaN
                                                    NaN
                                                               NaN
                                                                    NaN
                                                                          NaN
                                                                               NaN
##
  6
      NaN
           NaN
                     {\tt NaN}
                          NaN
                                    NaN
                                           NaN
                                                    NaN
                                                         NaN
                                                               NaN
                                                                    NaN
                                                                          NaN
                                                                               NaN
     RECORD.y panel_tmpr_Avg batt_volt_Avg
## 1
         1921
                    -5.872786
                                    11.51719
## 2
         1922
                    -6.170640
                                    11.49058
## 3
         1923
                    -6.523415
                                    11.47693
         1924
                    -6.808863
                                    11.44705
## 5
         1925
                    -7.065461
                                    11.43042
## 6
         1926
                    -7.328423
                                    11.41415
##
                                                     shf_Avg.1. shf_Avg.2. shf_Avg.3.
                                        SOILFILEID
## 1 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat
                                                      -27554.98
                                                                 -21.54295
                                                                              -17.23072
## 2 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -521292.60
                                                                  -25.03812
                                                                              -25.24500
                                                                  -28.27750
                                                                              -33.69209
## 3 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -1014400.00
## 4 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -1013497.00
                                                                  -28.66204
                                                                              -34.16895
## 5 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -1012673.00
                                                                  -29.19961
                                                                              -34.62351
## 6 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -1011812.00 -29.46448
                                                                              -35.09549
##
     shf_cal.1. shf_cal.2. shf_cal.3. n_Tot
                                                             response..1..y
## 1
       15.79779
                   16.15770
                               15.52072
                                           900 413Acclima 0030317.06000413
## 2
      582.64700
                   21.23667
                               31.33797
                                           900 413Acclima 0030317.06000413
## 3
      582.64700
                   21.23667
                               31.33797
                                           900 413Acclima 0030317.06000413
```

```
900 413Acclima 0030317.06000413
      582.64700
                   21.23667
                               31.33797
      582.64700
## 5
                                          900 413Acclima 0030317.06000413
                   21.23667
                               31.33797
      582.64700
                   21.23667
                               31.33797
                                          900 413Acclima 0030317.06000413
##
                   response..2..y response..3..y response..4..y response..5..y
## 1 113Acclima 0030317.06000367
                                               NaN
                                                               NaN
## 2 113Acclima 0030317.06000367
                                               NaN
                                                                               NaN
                                                               NaN
## 3 113Acclima 0030317.06000367
                                                                               NaN
                                               NaN
                                                               NaN
## 4 113Acclima 0030317.06000367
                                               NaN
                                                               NaN
                                                                               NaN
## 5 113Acclima 0030317.06000367
                                               NaN
                                                               NaN
                                                                               NaN
## 6 113Acclima 0030317.06000367
                                                                               NaN
                                               NaN
                                                               NaN
     response..6..y response..7..y response..8..y response..9..y TS_mean.1.
## 1
                 NaN
                                 NaN
                                                 NaN
                                                                 NaN
                                                                             NaN
## 2
                 NaN
                                 NaN
                                                 NaN
                                                                 NaN
                                                                             NaN
## 3
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                                 NaN
                                                 NaN
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## 4
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                                                                             NaN
## 5
                 NaN
                                 NaN
                                                 NaN
                                                                 NaN
                                                                             NaN
## 6
                 NaN
                                 NaN
                                                 NaN
                                                                 NaN
                                                                             NaN
     TS mean.2. TS mean.3. TS mean.4. del TS.1.
                                                      del TS.2.
                                                                    del TS.3.
                                               NaN -0.111616800
       3.399361
                   1.639290
## 1
                                    NaN
                                                                 0.029742360
## 2
       3.407635
                   1.648225
                                    NaN
                                                   0.008274078 0.008935332
## 3
       3.284481
                   1.544193
                                    NaN
                                               NaN -0.123154400 -0.104032000
       3.184695
                   1.416258
                                    NaN
                                               NaN -0.099785570 -0.127935300
## 5
                                               NaN -0.093995090 -0.056230310
       3.090700
                   1.360028
                                    NaN
                                               NaN -0.081468820 -0.032450320
##
       3.009232
                   1.327577
                                    NaN
     del_TS.4. SWC_1_1_1 TS_2_1_2 BRP_1_1_1 EC_1_1_1 SWC_2_1_1 TS_2_2_2 BRP_2_1_1
##
## 1
           NaN
                    71.09
                                6.0
                                        53.21
                                                   1.93
                                                            74.77
                                                                        5.3
                                                                                 56.62
## 2
           NaN
                    71.01
                                        53.14
                                                   1.93
                                                            74.77
                                                                        5.1
                                                                                 56.62
                                6.1
## 3
                                                                        5.1
           NaN
                    70.93
                                5.9
                                        53.07
                                                   1.93
                                                            74.53
                                                                                 56.40
## 4
                    70.77
                                5.8
                                        52.92
                                                   1.93
                                                            74.69
                                                                        5.0
                                                                                 56.55
           NaN
## 5
           NaN
                    71.01
                                5.8
                                        53.14
                                                   1.93
                                                            74.69
                                                                        5.0
                                                                                 56.55
## 6
           NaN
                    71.01
                                5.9
                                        53.14
                                                   1.93
                                                            74.69
                                                                        4.9
                                                                                 56.55
     EC_2_1_1 SWC_1_1_1_Avg TS_2_1_2_Avg BRP_1_1_1_Avg EC_1_1_1_Avg SWC_2_1_1_Avg
## 1
         1.88
                    70.95316
                                  6.012111
                                                 53.08799
                                                               1.933778
                                                                              74.67605
## 2
                    70.96253
                                  5.987000
         1.89
                                                 53.09651
                                                              1.932655
                                                                              74.67236
## 3
         1.89
                    70.96479
                                  5.958889
                                                 53.09864
                                                               1.932078
                                                                              74.68503
## 4
                    70.95618
         1.88
                                  5.924333
                                                 53.09072
                                                               1.930755
                                                                              74.68866
## 5
         1.88
                    70.95596
                                  5.883778
                                                 53.09058
                                                               1.929467
                                                                              74.70430
## 6
         1.86
                    70.96611
                                  5.840222
                                                 53.09993
                                                               1.928222
                                                                              74.71403
     TS_2_2_2_Avg BRP_2_1_1_Avg EC_2_1_1_Avg TS_mean.5. TS_mean.6.
                                                                          del TS.5.
## 1
                                      1.886200
                                                  1.721011
                                                            1.1173120 0.006492496
         5.234889
                        56.53437
                        56.53080
                                                            1.0690950 -0.023296000
## 2
         5.179111
                                      1.884567
                                                  1.697715
## 3
         5.119778
                        56.54265
                                      1.882644
                                                  1.495426
                                                            0.8021244 -0.202289600
## 4
         5.073888
                        56.54586
                                      1.879522
                                                  1.436004
                                                            0.7527020 -0.059421420
## 5
         5.023333
                        56.56040
                                      1.877478
                                                  1.419383
                                                            0.7179221 -0.016621110
                                      1.873955
                                                  1.393849
                                                            0.7560045 -0.025533800
         4.967111
                        56.56962
       del_TS.6. IRR_Body_Avg IRR_Corr_Avg Temp_C_Avg Lvl_m_Avg Tsoil_wat_mean.1.
##
## 1
     0.03622770
                           NaN
                                         NaN
                                                     NaN
                                                                NaN
                                                                                   NaN
                                                                NaN
## 2 -0.04821694
                           NaN
                                         NaN
                                                     NaN
                                                                                   NaN
## 3 -0.26697080
                           NaN
                                         NaN
                                                     NaN
                                                                NaN
                                                                                   NaN
## 4 -0.04942238
                           NaN
                                         NaN
                                                     NaN
                                                                NaN
                                                                                   NaN
## 5 -0.03477991
                           NaN
                                         NaN
                                                     NaN
                                                                NaN
                                                                                   NaN
## 6 0.03808242
                           NaN
                                         NaN
                                                     NaN
                                                                NaN
                                                                                   NaN
     Tsoil_wat_mean.2. Tsoil_wat_mean.3. del_Tsoil_wat.1. del_Tsoil_wat.2.
## 1
                    NaN
                                       NaN
                                                         NaN
```

```
0.193
## 1
                    NaN
                                 1368
                                                     NaN
                                                                      NaN
## 2
                    NaN
                                 1368
                                        0.192
                                                     NaN
                                                                      NaN
                                                                                    NaN
## 3
                    NaN
                                 1368
                                        0.192
                                                     NaN
                                                                      NaN
                                                                                    NaN
## 4
                    NaN
                                 1367
                                        0.192
                                                     NaN
                                                                      NaN
                                                                                    NaN
## 5
                    NaN
                                 1367
                                        0.192
                                                     NaN
                                                                      NaN
                                                                                    NaN
## 6
                                                                                    NaN
                    NaN
                                 1367
                                        0.192
                                                     NaN
                                                                      NaN
##
     wnd_dir_Unit_Vec wnd_dir_Std process_time_Avg process_time_Max buff_depth_Max
## 1
                    NaN
                                                                        NaN
## 2
                    NaN
                                  NaN
                                                     NaN
                                                                        NaN
                                                                                          NaN
## 3
                    NaN
                                  NaN
                                                     NaN
                                                                        NaN
                                                                                          NaN
## 4
                    NaN
                                  NaN
                                                     NaN
                                                                                         NaN
                                                                        NaN
## 5
                    NaN
                                  NaN
                                                                        NaN
                                                                                          NaN
## 6
                    NaN
                                  NaN
                                                     NaN
                                                                        NaN
                                                                                         NaN
     pH_1_Avg pH_2_Avg ORP_1_Avg ORP_2_Avg slowsequence_Tot VWC_3.y Ts_3.y BRP_3.y
## 1
           NaN
                     NaN
                                NaN
                                            NaN
                                                               NaN
                                                                        NaN
                                                                                NaN
                                                                                         NaN
## 2
           NaN
                     NaN
                                NaN
                                                               NaN
                                                                        NaN
                                                                                NaN
                                            NaN
                                                                                         NaN
## 3
           NaN
                     NaN
                                {\tt NaN}
                                            NaN
                                                               NaN
                                                                        {\tt NaN}
                                                                                NaN
                                                                                         {\tt NaN}
## 4
           NaN
                     NaN
                                                               NaN
                                NaN
                                            NaN
                                                                        NaN
                                                                                NaN
                                                                                         NaN
## 5
           NaN
                     NaN
                                NaN
                                            NaN
                                                               NaN
                                                                        \tt NaN
                                                                                NaN
                                                                                         NaN
           NaN
                     NaN
                                NaN
                                            NaN
                                                               NaN
                                                                        NaN
                                                                                NaN
                                                                                         NaN
     EC_3.y VWC_6.y Ts_6.y BRP_6.y EC_6.y VWC_3_Avg.y Ts_3_Avg.y BRP_3_Avg.y
## 1
        NaN
                  NaN
                          NaN
                                   NaN
                                           NaN
                                                        NaN
                                                                     NaN
                                                                                   NaN
## 2
                  NaN
                          NaN
                                           NaN
                                                        NaN
                                                                     NaN
                                                                                   NaN
         NaN
                                   NaN
        {\tt NaN}
## 3
                  NaN
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                                                        NaN
                                                                                   NaN
                                   NaN
                                                                     NaN
## 4
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                                   NaN
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                                                        NaN
                                                                     NaN
                                                                                   NaN
## 5
        NaN
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                                   NaN
                                           NaN
                                                        NaN
                                                                     NaN
                                                                                   NaN
## 6
                          NaN
                                   NaN
                                           NaN
                                                        NaN
                                                                     NaN
                                                                                   NaN
                 VWC_6_Avg.y
##
                               Ts_6_Avg.y BRP_6_Avg.y EC_6_Avg.y Lvl_m_corr_Avg begin
     EC_3_Avg.y
## 1
             NaN
                           NaN
                                       NaN
                                                     NaN
                                                                  NaN
                                                                                   NaN
                                                                 {\tt NaN}
## 2
             NaN
                           NaN
                                       NaN
                                                                                            1
                                                     NaN
                                                                                   NaN
## 3
             NaN
                           NaN
                                       NaN
                                                     NaN
                                                                  NaN
                                                                                   \mathtt{NaN}
## 4
             NaN
                                                                                   {\tt NaN}
                                                                                            1
                           NaN
                                       NaN
                                                     NaN
                                                                 NaN
## 5
             NaN
                                       NaN
                                                     NaN
                                                                                   {\tt NaN}
                           NaN
                                                                  NaN
## 6
             NaN
                                                     NaN
                                                                                   {\tt NaN}
                           NaN
                                       NaN
                                                                 NaN
     end
                YEAR
## 1
       1 2018-01-01
       1 2018-01-01
       1 2018-01-01
       1 2018-01-01
## 5
       1 2018-01-01
       1 2018-01-01
# Convert TIMESTAMP column to POSIXct format
way3_2018_data$TIMESTAMPposix <- as.POSIXct(way3_2018_data$TIMESTAMP)</pre>
# Derive TIMESTAMP_START and TIMESTAMP_END
way3_2018_data$TIMESTAMP_START <- format(way3_2018_data$TIMESTAMPposix, "%Y%m%d%H%M")
way3_2018_data$TIMESTAMP_END <- format(way3_2018_data$TIMESTAMPposix + 1800, "%Y%m%d%H%M") # Adding 180
                                                 12
```

## 2

## 3

## 4

## 5

## 6

##

NaN

NaN

NaN

NaN

NaN

NaN

NaN

NaN

NaN

del\_Tsoil\_wat.3. WTD\_raw\_Avg WTD\_Avg fw\_1\_Avg Tsoil\_wat\_mean wnd\_spd\_Avg

NaN

# # Assuming way3\_2018\_data is your dataset # Print the first three columns print(way3\_2018\_data[, 1:3])

```
TIMESTAMP_START TIMESTAMP_END
##
                                                   TIMESTAMP
## 1
            201801010000
                          201801010030 2018-01-01 00:00:00
##
  2
            201801010000
                          201801010030 2018-01-01 00:30:00
##
  3
            201801010000
                          201801010030 2018-01-01 01:00:00
##
  4
            201801010000
                          201801010030 2018-01-01 01:30:00
## 5
            201801010000
                          201801010030 2018-01-01 02:00:00
## 6
            201801010000
                          201801010030 2018-01-01 02:30:00
##
  7
                           201801010030 2018-01-01 03:00:00
            201801010000
##
  8
            201801010000
                          201801010030 2018-01-01 03:30:00
##
  9
            201801010000
                          201801010030 2018-01-01 04:00:00
##
            201801010000
                          201801010030 2018-01-01 04:30:00
  10
                          201801010030 2018-01-01 05:00:00
##
  11
            201801010000
##
  12
            201801010000
                          201801010030 2018-01-01 05:30:00
## 13
            201801010000
                          201801010030 2018-01-01 06:00:00
## 14
            201801010000
                          201801010030 2018-01-01 06:30:00
##
  15
            201801010000
                           201801010030 2018-01-01 07:00:00
                          201801010030 2018-01-01 07:30:00
##
  16
            201801010000
##
  17
            201801010000
                          201801010030 2018-01-01 08:00:00
##
  18
            201801010000
                          201801010030 2018-01-01 08:30:00
##
  19
            201801010000
                          201801010030 2018-01-01 09:00:00
  20
##
            201801010000
                          201801010030 2018-01-01 09:30:00
## 21
            201801010000
                          201801010030 2018-01-01 10:00:00
## 22
            201801010000
                           201801010030 2018-01-01 10:30:00
##
  23
            201801010000
                          201801010030 2018-01-01 11:00:00
##
  24
            201801010000
                           201801010030 2018-01-01 11:30:00
##
  25
            201801010000
                          201801010030 2018-01-01 12:00:00
  26
                          201801010030 2018-01-01 12:30:00
##
            201801010000
##
  27
            201801010000
                          201801010030 2018-01-01 13:00:00
  28
                          201801010030 2018-01-01 13:30:00
##
            201801010000
  29
                          201801010030 2018-01-01 14:00:00
##
            201801010000
##
  30
            201801010000
                           201801010030 2018-01-01 14:30:00
##
  31
            201801010000
                          201801010030 2018-01-01 15:00:00
  32
            201801010000
                          201801010030 2018-01-01 15:30:00
                          201801010030 2018-01-01 16:00:00
##
  33
            201801010000
##
  34
            201801010000
                          201801010030 2018-01-01 16:30:00
##
  35
            201801010000
                          201801010030 2018-01-01 17:00:00
##
  36
            201801010000
                          201801010030 2018-01-01 17:30:00
## 37
            201801010000
                           201801010030 2018-01-01 18:00:00
##
  38
                           201801010030 2018-01-01 18:30:00
            201801010000
##
  39
            201801010000
                           201801010030 2018-01-01 19:00:00
                          201801010030 2018-01-01 19:30:00
##
  40
            201801010000
##
  41
            201801010000
                           201801010030 2018-01-01 20:00:00
##
  42
            201801010000
                          201801010030 2018-01-01 20:30:00
## 43
                           201801010030 2018-01-01 21:00:00
            201801010000
## 44
            201801010000
                          201801010030 2018-01-01 21:30:00
## 45
                           201801010030 2018-01-01 22:00:00
            201801010000
##
  46
            201801010000
                          201801010030 2018-01-01 22:30:00
                          201801010030 2018-01-01 23:00:00
##
  47
            201801010000
            201801010000 201801010030 2018-01-01 23:30:00
## 48
```

```
## 49
            201801020000
                          201801020030 2018-01-02 00:00:00
                          201801020030 2018-01-02 00:30:00
##
  50
            201801020000
##
  51
            201801020000
                          201801020030 2018-01-02 01:00:00
            201801020000
                          201801020030 2018-01-02 01:30:00
##
  52
##
  53
            201801020000
                           201801020030 2018-01-02 02:00:00
                          201801020030 2018-01-02 02:30:00
##
  54
            201801020000
##
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## head(way3\_2018\_data)

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     un_ch4_flux ch4_scf spikes_hf amplitude_resolution_hf drop_out_hf
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     discontinuities_hf discontinuities_sf timelag_hf timelag_sf attack_angle_hf
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     non_steady_wind_hf u_spikes v_spikes w_spikes ts_spikes co2_spikes h2o_spikes
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     ch4_spikes chopper_LI_7500 detector_LI_7500 pll_LI_7500 sync_LI_7500
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     not_ready_LI_7700 no_signal_LI_7700 re_unlocked_LI_7700 bad_temp_LI_7700
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     laser_temp_unregulated_LI_7700 block_temp_unregulated_LI_7700
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     motor_spinning_LI_7700 pump_on_LI_7700 top_heater_on_LI_7700
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     bad_aux_tc1_LI_7700 bad_aux_tc2_LI_7700 bad_aux_tc3_LI_7700
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     co2_mean h2o_mean dew_point_mean co2_signal_strength_7500_mean ch4_mean
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     rssi_77_mean ECFILEID mean_value_RSSI_LI_7500 ch4_aux_1_mean ch4_aux_2_mean
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     rand_err_h2o_flux rand_err_ch4_flux none_flux qc_none_flux rand_err_none_flux
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     chopper_LI_7200 detector_LI_7200 pll_LI_7200 sync_LI_7200
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## 6
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     mean_value_RSSI_LI_7200 mean_value_LI_7500 none_var w_none_cov H_raw H_qc
##
## 1
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##
     H_gf H_mod LE_raw LE_qc LE_gf LE_mod co2_raw co2_qc co2_gf co2_mod ch4_raw
## 1
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##
     ch4_qc ch4_gf ch4_mod WT_gf RECORD.x BattV_Min BattV_Avg WS_Avg WD_Avg
## 1
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                         NaN
                               NaN
                                        3412
                                                 11.15
                                                            11.19 5.020 88.00
## 2
        NaN
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                         NaN
                               NaN
                                        3413
                                                 11.09
                                                            11.16 5.297 115.80
                                                 11.12
## 3
                                        3414
        NaN
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                               NaN
                                                            11.15 6.109 107.50
## 4
        NaN
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                                        3415
                                                 11.10
                                                            11.14
                                                                   5.335 71.99
## 5
        NaN
                NaN
                         NaN
                               NaN
                                        3416
                                                 11.08
                                                            11.12 5.515 139.00
## 6
                                                            11.10 5.127 129.90
        NaN
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                         NaN
                               NaN
                                        3417
                                                 11.07
     WS_S_WVT WS_U_WVT WD_DU_WVT WD_SDU_WVT CNR4Temp_K_Avg
##
## 1 5.020032 4.678991 5.7313680
                                     21.11226
                                                         265.9
                                     19.10741
## 2 5.296957 5.002203 2.0431910
                                                         265.5
## 3 6.109135 5.629690 4.0062620
                                     22.69156
                                                         265.2
## 4 5.334539 4.988176 8.3386190
                                     20.63964
                                                         264.9
## 5 5.515258 5.137754 0.2776505
                                      21.19154
                                                         264.7
## 6 5.126816 4.832648 1.9998430
                                     19.40254
                                                         264.4
##
                                            METFILEID pH_Avg TA_1_1_1_Avg
## 1 TOA5_9811.Tbl30Min_23 (2)_2017_12_29_1700.dat -0.261
                                                                     -7.079
## 2 TOA5_9811.Tbl30Min_23 (2)_2017_12_29_1700.dat -0.227
                                                                     -7.491
## 3
         TOA5_9811.Tbl30Min_24_2018_01_01_0100.dat -0.213
                                                                     -7.880
## 4
         TOA5_9811.Tbl30Min_24_2018_01_01_0100.dat -0.189
                                                                     -8.120
## 5
         TOA5_9811.Tbl30Min_24_2018_01_01_0100.dat -0.166
                                                                     -8.340
## 6
         TOA5_9811.Tbl30Min_24_2018_01_01_0100.dat -0.144
                                                                     -8.650
     RH 1 1 1 Avg SW IN Avg SW OUT Avg LW IN Avg LW OUT Avg LW IN T Corr Avg
## 1
             46.08
                      -3.945
                                   1.219
                                             -76.02
                                                          16.00
                                                                            207.2
## 2
             49.70
                      -3.737
                                             -72.92
                                                          16.83
                                                                            208.8
                                   1.159
## 3
             50.87
                      -3.374
                                   1.036
                                             -68.88
                                                          17.14
                                                                            211.4
                      -3.435
             52.20
                                   1.079
                                             -66.58
                                                          18.15
                                                                            212.7
## 5
             53.24
                      -3.543
                                   1.185
                                             -70.13
                                                                            208.2
                                                          18.19
##
             54.11
                      -3.624
                                   1.217
                                             -69.69
                                                          18.90
                                                                            207.3
##
     LW_OUT_T_Corr_Avg NETRAD_Avg ALB_Avg PAR_IN_Avg PAR_IN_Max
                                                                           PAR_IN_TMx
## 1
                  299.3
                              -97.2 -30.85
                                                  0.000
                                                              0.092 12/31/2017 23:33
## 2
                  298.5
                              -94.6 -30.99
                                                              0.092
                                                  0.000
                                                                        1/1/2018 0:19
## 3
                  297.4
                              -90.4 -30.71
                                                  0.000
                                                              0.092
                                                                        1/1/2018 0:53
                              -89.2 -31.36
## 4
                  297.4
                                                   0.000
                                                              0.092
                                                                        1/1/2018 1:23
## 5
                  296.5
                              -93.0 -33.46
                                                   0.001
                                                              0.092
                                                                        1/1/2018 1:53
## 6
                  295.9
                              -93.4
                                     -33.65
                                                   0.000
                                                              0.092
                                                                        1/1/2018 2:27
                       PAR_IN_TMn PAR_OUT_Avg PAR_OUT_Max
##
     PAR_IN_Min
                                                                   PAR_OUT_TMx
## 1
               0 12/31/2017 23:30
                                          0.021
                                                       0.179 12/31/2017 23:31
                    1/1/2018 0:00
## 2
               0
                                          0.020
                                                       0.089
                                                                 1/1/2018 0:25
## 3
               0
                    1/1/2018 0:30
                                          0.020
                                                       0.179
                                                                 1/1/2018 0:37
```

```
## 4
                     1/1/2018 1:00
                                          0.024
                                                        0.179
                                                                  1/1/2018 1:16
## 5
                     1/1/2018 1:30
                                                                  1/1/2018 1:58
               0
                                          0.028
                                                        0.179
                                          0.020
                                                                  1/1/2018 2:29
## 6
               0
                     1/1/2018 2:00
                                                        0.089
     PAR OUT Min
                        PAR_OUT_TMn PAR_Tot_IN_Tot PAR_Tot_OUT_Tot
                                                                          APAR Avg
##
## 1
                0
                  12/31/2017 23:30
                                        0.000066800
                                                           0.01410234 -0.02083037
## 2
                0
                     1/1/2018 0:00
                                        0.000133675
                                                           0.01363486 -0.01996772
## 3
                0
                                                           0.01356841 -0.01993562
                      1/1/2018 0:30
                                        0.000133680
                0
                                                           0.01610869 -0.02360404
## 4
                      1/1/2018 1:00
                                        0.000200523
## 5
                0
                     1/1/2018 1:30
                                        0.000334213
                                                           0.01871594 -0.02726964
## 6
                0
                      1/1/2018 2:00
                                        0.000200533
                                                           0.01370303 -0.02003323
     Redox_1_Avg Redox_2_Avg Redox_3_Avg WSDiag_Tot TA_1_2_1_Avg RH_1_2_1_Avg
## 1
            364.1
                                      369.2
                                                       0
                         409.3
                                                                -6.899
                                                                               48.28
                                                       0
                                                                -7.313
## 2
            362.4
                         407.3
                                      367.1
                                                                               52.13
## 3
            361.2
                                      365.9
                                                       0
                                                                -7.676
                                                                               52.78
                         406.1
## 4
                                                       0
                                                                -7.912
                                                                               54.28
            359.7
                         404.5
                                      364.3
## 5
            358.1
                         402.9
                                      362.7
                                                       0
                                                                -8.130
                                                                               55.30
## 6
                                                       0
                                                                -8.430
                                                                               56.08
            356.5
                         401.3
                                      361.1
     WLM_Us_1_Avg TA_2_1_2_Avg TA_Avg RH_Avg HF1_Avg HF2_Avg HF3_Avg SHF_Cal.1.
## 1
                          -6.925
                                     NaN
                                             NaN
                                                     NaN
                                                              NaN
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                                                                                   NaN
               NaN
## 2
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                          -7.331
                                     NaN
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## 3
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                          -7.661
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## 4
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                          -7.921
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## 5
                          -8.140
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                          -8.450
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## 6
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     SHF_Cal.2. SHF_Cal.3. TS1_Avg TS2_Avg TS3_Avg SWUp_Avg SWDn_Avg
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     LWUpTempCorr_Avg LWDnTempCorr_Avg Hyp1_1_Avg Hyp1_2_Avg WaterTemp_Avg
## 1
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     WaterDepth_V_Avg WaterDepth_Avg LWUp_RAW_Avg LWDn_RAW_Avg TA_Lower_Avg
## 1
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     RH_Lower_Avg DOmV DOppm PAR_Den_up_Avg PAR_Den_up PAR_Tot_up_Tot
## 1
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     PAR_Den_dn_Avg PAR_Den_dn PAR_Tot_dn_Tot ORP_Avg Pt1_Avg Pt2_Avg Pt3_Avg
## 1
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##
     VWC 3.x Ts 3.x BRP 3.x EC 3.x VWC 6.x Ts 6.x BRP 6.x EC 6.x VWC 3 Avg.x
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     Ts_3_Avg.x BRP_3_Avg.x EC_3_Avg.x VWC_6_Avg.x Ts_6_Avg.x BRP_6_Avg.x
## 1
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     EC 6 Avg.x response..1..x response..2..x response..3..x response..4..x
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## 2
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     response..5..x response..6..x response..7..x response..8..x response..9..x
## 1
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## 6
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     WLM_Us_1 WLM_Us_1_Min WLM_Us_1_TMn WLM_Us_1_Max WLM_Us_1_TMx TA_2_1_1_Avg
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                         RN Volts Volts.1 Deg.C X. W.m.2 W.m.2.1 W.m.2.2 W.m.2mV.
     RH_2_1_1_Avg
                     TS
## 1
               NaN NaN NaN
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## 2
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## 6
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     W..m.2mV..1 W..m.2mV..2 Deg.C.1 Deg.C.2 Deg.C.3 W.m.2.3 W.m.2.4 W.m.2.5
## 1
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```

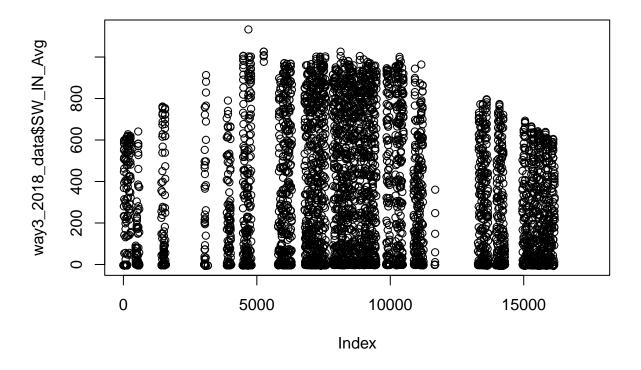
```
W.m.2.6 Deg.C.4 Deg.C.5 meters.second degrees meters.second.1 meters.second.2
## 1
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## 6
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##
     Deg Deg.1 Deg.C.6 mV cm W.m.2.7 W.m.2.8
                                                     K Deg.C.7 X..1 mV.1 ppm
## 1 NaN
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## 2 NaN
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## 6 NaN
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##
     umol.s.m.2 umol.s.m.2.1 mmol.m.2 umol.s.m.2.2 umol.s.m.2.3 mmol.m.2.1 X..2
## 1
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## 5
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## 6
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       C X..3 Ds.m X..4 C.1 X..5 dS.m X..6 C.2 X..7 Ds.m.1 X..8 C.3 X..9 dS.m.1
## 1 NaN
          \mathtt{NaN}
                NaN
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       X X.1 X.2 X.3 X.4 X.5 X.6 X.7 X.8 mV.2 mV.3 mV.4 mV.5 mV.6 Deg.C.8 X..10
## 1 NaN NaN NaN NaN NaN NaN NaN NaN NaN
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     Deg.C.9 X..11 W.m.2.9 W.m.2.10 W.m.2.11 W.m.2.12 W.m.2.13 W.m.2.14 W.m.2.15
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     X..12 umol.s.m.2.4 umol.s.m.2.5 X.9
##
                                            umol.s.m.2.6 X.10 umol.s.m.2.7
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##
     umol.s.m.2.8 X.11 umol.s.m.2.9 X.12 mmol.m.2.2 mmol.m.2.3 umol.s.m.2.10 mV.7
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     mV.8 mV.9 unitless cm.1 Deg.C.10 X..13 Deg.C.11 cm.2 cm.3 X.13 cm.4 X.14
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##
     RECORD.y panel_tmpr_Avg batt_volt_Avg
## 1
         1921
                    -5.872786
                                     11.51719
## 2
         1922
                    -6.170640
                                     11.49058
## 3
         1923
                    -6.523415
                                     11,47693
## 4
         1924
                    -6.808863
                                     11.44705
## 5
         1925
                    -7.065461
                                     11.43042
## 6
         1926
                    -7.328423
                                     11.41415
##
                                                      shf_Avg.1. shf_Avg.2. shf_Avg.3.
                                         SOILFILEID
## 1 TOA5 72128.stats 31 (2) 2017 12 30 1030.dat
                                                       -27554.98
                                                                  -21.54295
## 2 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -521292.60
                                                                   -25.03812
                                                                               -25.24500
## 3 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -1014400.00
                                                                   -28.27750
                                                                               -33.69209
## 4 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -1013497.00
                                                                   -28.66204
                                                                               -34.16895
## 5 TOA5 72128.stats 31 (2) 2017 12 30 1030.dat -1012673.00
                                                                   -29.19961
                                                                               -34.62351
## 6 TOA5_72128.stats_31 (2)_2017_12_30_1030.dat -1011812.00 -29.46448
                                                                               -35.09549
     shf cal.1. shf cal.2. shf cal.3. n Tot
##
                                                              response..1..y
## 1
       15.79779
                   16.15770
                               15.52072
                                           900 413Acclima 0030317.06000413
## 2
      582.64700
                   21.23667
                               31.33797
                                           900 413Acclima 0030317.06000413
## 3
      582.64700
                   21.23667
                               31.33797
                                           900 413Acclima 0030317.06000413
                                           900 413Acclima 0030317.06000413
## 4
      582.64700
                   21.23667
                               31.33797
## 5
                                           900 413Acclima 0030317.06000413
      582.64700
                   21.23667
                               31.33797
## 6
      582.64700
                   21.23667
                               31.33797
                                           900 413Acclima 0030317.06000413
##
                   response..2..y response..3..y response..4..y response..5..y
## 1 113Acclima 0030317.06000367
                                                NaN
                                                                NaN
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## 2 113Acclima 0030317.06000367
                                                NaN
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## 3 113Acclima 0030317.06000367
                                                NaN
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## 4 113Acclima 0030317.06000367
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## 5 113Acclima 0030317.06000367
                                               NaN
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  6 113Acclima 0030317.06000367
                                                NaN
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##
     response..6..y response..7..y response..8..y response..9..y TS_mean.1.
## 1
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## 2
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##
     TS_mean.2. TS_mean.3. TS_mean.4. del_TS.1.
                                                       del_TS.2.
                                                                     del_TS.3.
## 1
       3.399361
                   1.639290
                                     NaN
                                                NaN -0.111616800
                                                                   0.029742360
## 2
       3.407635
                   1.648225
                                     NaN
                                                NaN
                                                    0.008274078 0.008935332
## 3
       3.284481
                   1.544193
                                     NaN
                                                NaN -0.123154400 -0.104032000
## 4
       3.184695
                   1.416258
                                     NaN
                                                NaN -0.099785570 -0.127935300
## 5
       3.090700
                   1.360028
                                     NaN
                                                NaN -0.093995090 -0.056230310
##
       3.009232
                   1.327577
                                     NaN
                                                NaN -0.081468820 -0.032450320
##
     del_TS.4. SWC_1_1_1 TS_2_1_2 BRP_1_1_1 EC_1_1_1 SWC_2_1_1 TS_2_2_2 BRP_2_1_1
## 1
           NaN
                    71.09
                                6.0
                                         53.21
                                                    1.93
                                                              74.77
                                                                          5.3
                                                                                  56.62
## 2
           NaN
                    71.01
                                6.1
                                         53.14
                                                    1.93
                                                              74.77
                                                                          5.1
                                                                                  56.62
```

```
## 3
           NaN
                    70.93
                                5.9
                                         53.07
                                                    1.93
                                                              74.53
                                                                          5.1
                                                                                   56.40
## 4
                                                                          5.0
                                                                                   56.55
           NaN
                    70.77
                                5.8
                                         52.92
                                                    1.93
                                                              74.69
## 5
           NaN
                    71.01
                                5.8
                                         53.14
                                                    1.93
                                                              74.69
                                                                          5.0
                                                                                   56.55
## 6
           NaN
                    71.01
                                5.9
                                         53.14
                                                    1.93
                                                              74.69
                                                                          4.9
                                                                                   56.55
##
     EC_2_1_1 SWC_1_1_1_Avg TS_2_1_2_Avg BRP_1_1_1_Avg EC_1_1_1_Avg SWC_2_1_1_Avg
## 1
         1.88
                                  6.012111
                    70.95316
                                                  53.08799
                                                                1.933778
                                                                               74.67605
## 2
         1.89
                    70.96253
                                   5.987000
                                                  53.09651
                                                                1.932655
                                                                               74.67236
## 3
         1.89
                    70.96479
                                  5.958889
                                                  53.09864
                                                                1.932078
                                                                               74.68503
## 4
         1.88
                    70.95618
                                  5.924333
                                                  53.09072
                                                                1.930755
                                                                               74.68866
## 5
         1.88
                    70.95596
                                   5.883778
                                                  53.09058
                                                                1.929467
                                                                               74.70430
##
         1.86
                    70.96611
                                   5.840222
                                                  53.09993
                                                                1.928222
                                                                               74.71403
     TS_2_2_2_Avg BRP_2_1_1_Avg EC_2_1_1_Avg
##
                                                 TS mean.5.
                                                             TS_mean.6.
                                                                            del TS.5.
                                                                          0.006492496
## 1
         5.234889
                         56.53437
                                       1.886200
                                                   1.721011
                                                              1.1173120
## 2
         5.179111
                         56.53080
                                       1.884567
                                                   1.697715
                                                              1.0690950 -0.023296000
## 3
                                                   1.495426
                                                              0.8021244 -0.202289600
         5.119778
                         56.54265
                                       1.882644
## 4
         5.073888
                         56.54586
                                       1.879522
                                                   1.436004
                                                              0.7527020 -0.059421420
## 5
                         56.56040
                                       1.877478
                                                   1.419383
                                                              0.7179221 -0.016621110
         5.023333
##
         4.967111
                         56.56962
                                       1.873955
                                                   1.393849
                                                              0.7560045 -0.025533800
##
       del_TS.6. IRR_Body_Avg IRR_Corr_Avg Temp_C_Avg Lvl_m_Avg Tsoil_wat_mean.1.
     0.03622770
## 1
                            NaN
                                          NaN
                                                      NaN
                                                                 NaN
## 2 -0.04821694
                            NaN
                                          NaN
                                                      NaN
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## 3 -0.26697080
                            NaN
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## 4 -0.04942238
                            NaN
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## 5 -0.03477991
                                                      NaN
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## 6
     0.03808242
                            NaN
                                          NaN
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     Tsoil_wat_mean.2. Tsoil_wat_mean.3. del_Tsoil_wat.1. del_Tsoil_wat.2.
## 1
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## 5
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##
                    NaN
                                        NaN
                                                           NaN
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     del_Tsoil_wat.3. WTD_raw_Avg WTD_Avg fw_1_Avg Tsoil_wat_mean wnd_spd_Avg
## 1
                   NaN
                               1368
                                       0.193
                                                   NaN
                                                                   NaN
                                                                                 NaN
## 2
                   NaN
                               1368
                                       0.192
                                                   NaN
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                                                                                 NaN
## 3
                   NaN
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                                                                                NaN
                               1368
                                       0.192
## 4
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## 5
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                               1367
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##
                               1367
                                       0.192
                                                   NaN
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##
     wnd_dir_Unit_Vec wnd_dir_Std process_time_Avg process_time_Max buff_depth_Max
## 1
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## 6
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##
     pH_1_Avg pH_2_Avg ORP_1_Avg ORP_2_Avg slowsequence_Tot VWC_3.y Ts_3.y BRP_3.y
                                                                             NaN
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     EC_3.y VWC_6.y Ts_6.y BRP_6.y EC_6.y VWC_3_Avg.y Ts_3_Avg.y BRP_3_Avg.y
```

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## 1
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##
                   VWC_6_Avg.y Ts_6_Avg.y BRP_6_Avg.y EC_6_Avg.y Lvl_m_corr_Avg begin
      EC_3_Avg.y
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##
                  YEAR TIMESTAMPposix
      end
## 1
        1 2018-01-01
                             2018-01-01
   2
##
          2018-01-01
                             2018-01-01
##
   3
        1 2018-01-01
                             2018-01-01
##
        1 2018-01-01
                             2018-01-01
##
        1 2018-01-01
                             2018-01-01
   5
## 6
        1 2018-01-01
                             2018-01-01
```

## Saving the files



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.

## source: https://www.youtube.com/watch?v=wS95r9JbbB0&t= 2336s

Guidelines from the video:

- 1. Do support list of common variable names (From the table)
- 2. Use the exact variable names and the units
- 3. Very first on the list, what to do with the data, remove the known values
- 4. U-star filtering of the data
- 5. CSV is a delimited text file that uses a comma to separate values
- 6. The first two column are TIMESTAMP\_START and TIMESTAMP\_END (ISO time format: YYYYMMDDHHMM e.g., 201810220930)
- 7. Dont convert the scientific notations in timestamps
- 8. An hour column to check the data