

# **pH\_HOBO\_plots 1.2**

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3/15/24

1.2) My goal is to better organize this so it is not such a long script. Also since updating this there is a bug in plotting some of the YSI data, so I'd like to fix that. Updated HOBO pH unknown offsets to reflect mean offsets for each pH probe using the serial number, rather than mean offsets for all HOBO pH's. 3.15.24 1.1) Trim individual files to time deployed and retrieved, then compile and visualize the data. Also compare HOBO pH data to sediment temp data, YSI data, and HOBO conductivity data. A note about HOBO EST vs. EDT. It seems that this switch happens when these get calibrated, not actually during the time change. This means that GMT should be estimated separately from each file. I could not find this in the manual and want to call the company to confirm.-3.17.24

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## 0.1 Set up workspace

### 0.1.1 Dennis

```
setwd(wdDen)
filenames <- dir()
#filenames
```

```
setwd(wdDen)
# Late June to early Aug
#(open_file <- filenames[1]) # "1230_East_Dennis 2022-08-05 16_12_44 EDT (Data EDT).csv"
open_file <- "1230_East_Dennis 2022-08-05 16_12_44 EDT (Data EDT).csv"
#Also works: (open_file <- filenames[2]) # "1230_East_Dennis 2022-09-21 09_29_48 EDT (Data EDT).csv"
df <- read.csv(open_file, stringsAsFactors = F)

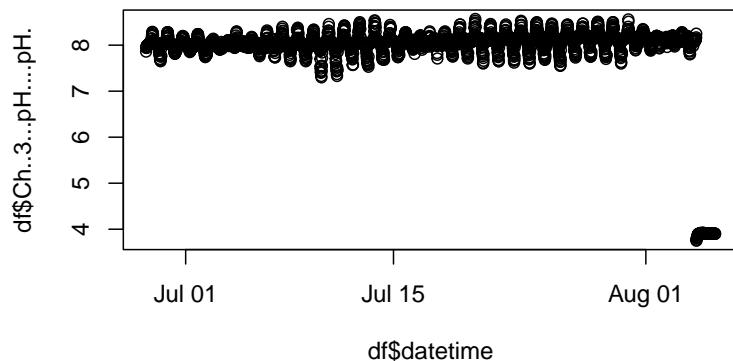
df <- df[,c(1:5)]
head(df)
```

X.	Date.Time..EDT.	Ch..1...Temperature....C..	Ch..2...Millivolts....mv.
1	06/28/2022 08:00:00	18.79	-76.61
2	06/28/2022 08:15:00	18.87	-82.05
3	06/28/2022 08:30:00	18.82	-81.16
4	06/28/2022 08:45:00	18.87	-80.99
5	06/28/2022 09:00:00	19.08	-83.07
6	06/28/2022 09:15:00	19.25	-83.75
	Ch..3...pH....pH.		
1		7.86	
2		7.96	
3		7.94	

```
4          7.94
5          7.98
6          7.99
```

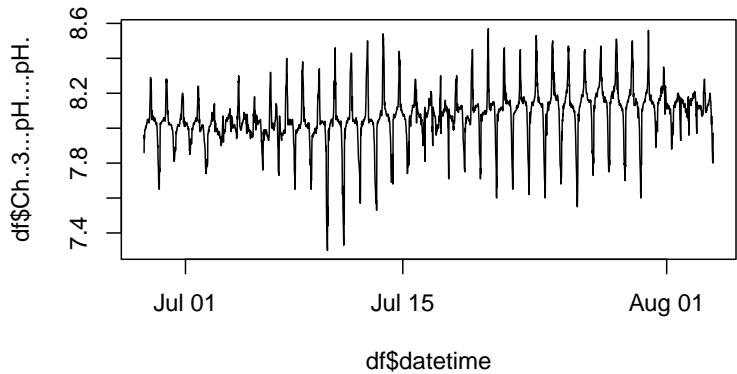
```
names(df) <- c("n", "Date.Time..EDT.", "Ch..1...Temperature.....C..", "mV", "Ch..3...pH....pH." )

df$datetime <- as.POSIXct(strptime(df>Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
plot(df$datetime, df$Ch..3...pH....pH.)
```

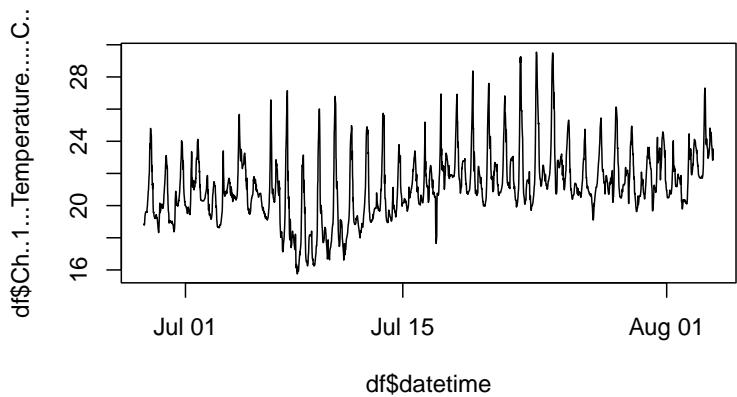


```
df <- df[df$datetime<"2022-08-04 00:08:00 EDT",]

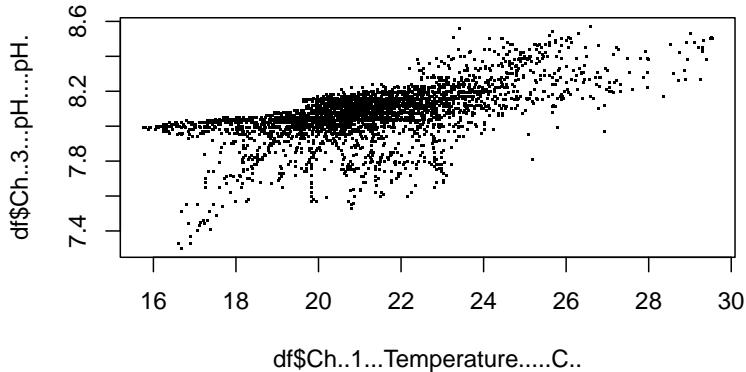
plot(df$datetime, df$Ch..3...pH....pH., type = "l")
```



```
plot(df$datetime, df$Ch..1....Temperature.....C.., type = "l")
```



```
plot(df$Ch..1....Temperature.....C.., df$Ch..3...pH....pH., pch = '.')
```



```

#Metadata
SN <- 230
tris <- 8.34
tris_temp <- 24.05

data_combined_new <- 0
data_combined_new <- data.frame(
  Site = rep("Den",times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,length(df$datetime)),
  Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined_new)

# setwd(wdDen)
# # Late June to early Aug
# #(open_file <- filenames[1]) # "1230_East_Dennis 2022-08-05 16_12_44 EDT (Data EDT).csv"
# open_file <- "1230_East_Dennis 2022-08-05 16_12_44 EDT (Data EDT).csv"
# #Also works: (open_file <- filenames[2]) # "1230_East_Dennis 2022-09-21 09_29_48 EDT (Data ED
# df <- read.csv(open_file, stringsAsFactors = F)
# df$datetime <- as.POSIXct(strptime(df$Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
# plot(df$datetime, df$Ch..3...pH....pH.)

```

```

# df <- df[df$datetime<"2022-08-04 00:00:00 EDT",]
# plot(df$datetime, df$Ch..3...pH....pH., type = "l")
# plot(df$datetime, df$Ch..1...Temperature.....C.., type = "l")
# plot(df$Ch..1...Temperature.....C.., df$Ch..3...pH....pH., pch = '.')
#
# #Metadata
# SN <- 230
# tris <- 8.34
# tris_temp <- 24.05
#
# data_combined_new <- data.frame(
#   Site = rep("Den",times = nrow(df)),
#   Date = df$datetime,
#   Temp = df$Ch..1...Temperature.....C..,
#   pH = df$Ch..3...pH....pH.,
#   Tris = rep(tris,length(df$datetime)),
#   Tris_temp = rep(tris_temp,length(df$datetime)),
#   Serial_number = rep(SN,length(df$datetime))
# )
#
#
# data_combined <- rbind(data_combined_new)

```

```

setwd(wdDen)
# Aug to mid September
#"Den_077 2022-09-14 14_08_26 EDT (Data EDT).csv"
#"Den_077 2022-09-21 09_28_37 EDT (Data EDT)(1).csv" is the same file read out later on
#(open_file <- filenames[3])
open_file <- "Den_077 2022-09-14 14_08_26 EDT (Data EDT).csv"
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

```

	X.	Date.Time..EDT.	Ch..1...Temperature.....C..	Ch..2...Millivolts....mv.
1	1	08/04/2022 09:00:00	23.91	180.19
2	2	08/04/2022 09:15:00	24.85	180.54
3	3	08/04/2022 09:30:00	26.18	181.01
4	4	08/04/2022 09:45:00	25.21	-77.55
5	5	08/04/2022 10:00:00	25.16	-78.10

```

6 6 08/04/2022 10:15:00           25.48          -79.74
Ch..3...pH....pH.
1      3.60
2      3.60
3      3.61
4      8.18
5      8.19
6      8.22

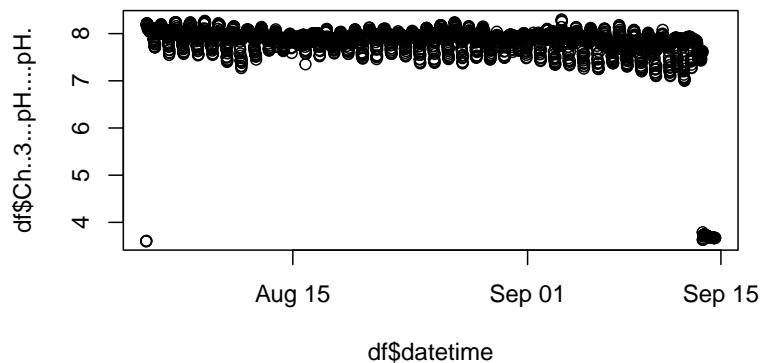
```

```

names(df) <- c("n", "Date.Time..EDT.", "Ch..1...Temperature.....C..", "mV", "Ch..3...pH....pH." )

df$datetime <- as.POSIXct(strptime(df>Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
plot(df$datetime, df$Ch..3...pH....pH.)

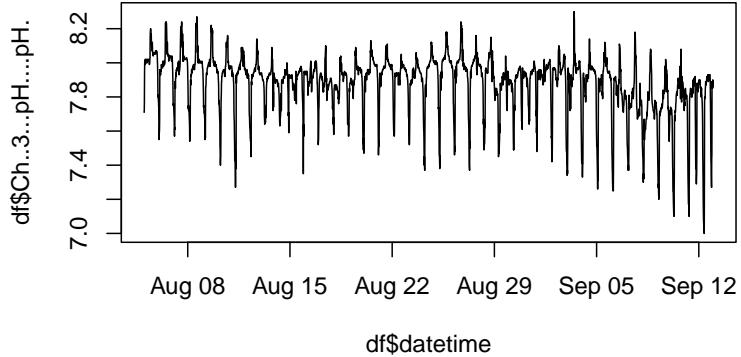
```



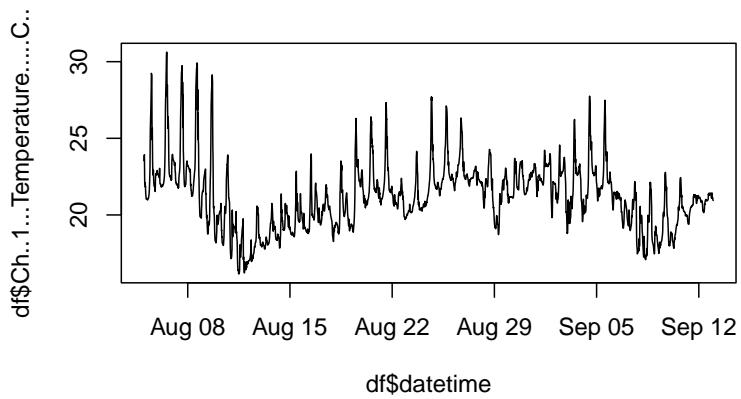
```

df <- df[df$datetime>"2022-08-05 00:00:00 EDT",]
df <- df[df$datetime<"2022-09-13 00:00:00 EDT",]
plot(df$datetime, df$Ch..3...pH....pH., type = "l")

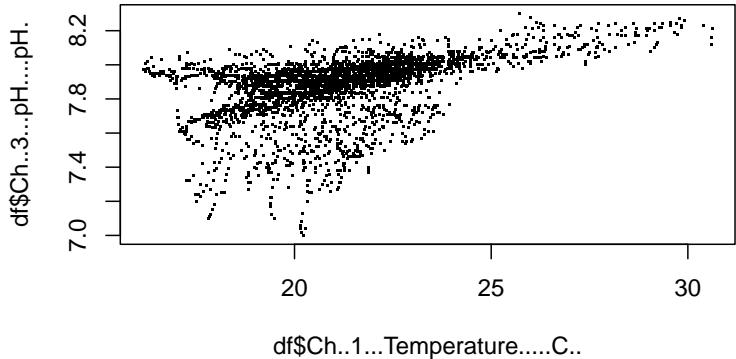
```



```
plot(df$datetime, df$Ch..1....Temperature.....C.., type = "l")
```



```
plot(df$Ch..1....Temperature.....C.., df$Ch..3...pH....pH., pch = '.')
```



```
#Metadata
SN <- 077
tris <- 8.16
tris_temp <- 23.98

data_combined_new <- data.frame(
  Site = rep("Den",times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,length(df$datetime)),
  Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

head(data_combined_new)
```

	Site	Date	Temp	pH	Tris	Tris_temp	Serial_number
1	Den	2022-08-05 00:15:00	23.54	7.71	8.16	23.98	77
2	Den	2022-08-05 00:30:00	23.79	7.71	8.16	23.98	77
3	Den	2022-08-05 00:45:00	23.93	7.77	8.16	23.98	77
4	Den	2022-08-05 01:00:00	23.04	7.94	8.16	23.98	77
5	Den	2022-08-05 01:15:00	22.15	8.00	8.16	23.98	77

```
6 Den 2022-08-05 01:30:00 22.06 7.99 8.16      23.98      77
```

```
tail(data_combined_new)
```

	Site	Date	Temp	pH	Tris	Tris_temp	Serial_number
3738	Den	2022-09-12 22:30:00	21.10	7.85	8.16	23.98	77
3739	Den	2022-09-12 22:45:00	21.13	7.87	8.16	23.98	77
3740	Den	2022-09-12 23:00:00	21.01	7.90	8.16	23.98	77
3741	Den	2022-09-12 23:15:00	20.98	7.89	8.16	23.98	77
3742	Den	2022-09-12 23:30:00	20.96	7.87	8.16	23.98	77
3743	Den	2022-09-12 23:45:00	20.94	7.86	8.16	23.98	77

### 0.1.2 Ptown

```
setwd(wdPtown)
filenames <- dir()
filenames
```

```
[1] "20573560_Ptown 2022-06-15 18_08_38 EDT (Data EDT).csv"
[2] "20573560_Ptown 2022-06-15 18_08_38 EDT (Data EDT).csv.orig"
[3] "20573560_Ptown 2022-08-05 17_08_58 EDT (Data EDT).csv"
[4] "20573560_Ptown 2022-08-05 17_08_58 EDT (Data EDT).csv.orig"
[5] "20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv"
[6] "20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv.orig"
[7] "20573560_Ptown 2022-11-02 15_02_10 EDT (Data EDT).csv"
[8] "20573560_Ptown 2023-05-10 14_13_07 EDT (Data EDT).csv"
[9] "20573560_Ptown 2023-05-10 14_13_07 EDT (Data EDT).csv.orig"
[10] "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv"
[11] "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv.orig"
[12] "340_Ptown 2023-06-11 14_35_41 EDT (Data EDT)(1).csv"
[13] "Ptown 2022-05-17 14_31_47 EDT (Data EDT) 2.csv"
[14] "Ptown 2022-05-17 14_31_47 EDT (Data EDT) 2.csv.orig"
[15] "Ptown 2022-05-17 14_31_47 EDT (Data EDT).csv"
[16] "Ptown 2022-05-17 14_31_47 EDT (Data EDT).csv.orig"
[17] "Ptown 2022-06-27 15_06_47 EDT (Data EDT).csv"
[18] "Ptown 2022-06-27 15_06_47 EDT (Data EDT).csv.orig"
[19] "Ptown_075 2022-08-29 21_52_54 EDT (Data EDT).csv"
[20] "Ptown_075 2022-08-29 21_52_54 EDT (Data EDT).csv.orig"
```

```
[21] "Ptown_076 2022-12-05 21_20_00 EST (Data EST).csv"
[22] "Ptown_076 2022-12-05 21_20_00 EST (Data EST).csv.orig"
[23] "Ptown_20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv"
[24] "Ptown_20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv.orig"
```

```
setwd(wdPtown)
# mid June to August
open_file <- "20573560_Ptown 2022-08-05 17_08_58 EDT (Data EDT).csv"
df <- read.csv(open_file, stringsAsFactors = F)
head(df)
```

	X.	Date.Time..EDT.	Ch..1...Temperature.....C..	Ch..2...Millivolts....mv.
1	1	06/15/2022 18:09:46	20.91	-84.85
2	2	06/15/2022 18:24:46	20.25	-89.80
3	3	06/15/2022 18:39:46	19.46	-70.27
4	4	06/15/2022 18:54:46	19.22	-72.31
5	5	06/15/2022 19:09:46	19.25	-71.35
6	6	06/15/2022 19:24:46	19.48	-85.28
			Ch..3...pH....pH.	Button.Down Button.Up Host.Connected End.of.File
1			8.36	
2			8.45	
3			8.10	
4			8.14	
5			8.12	
6			8.37	

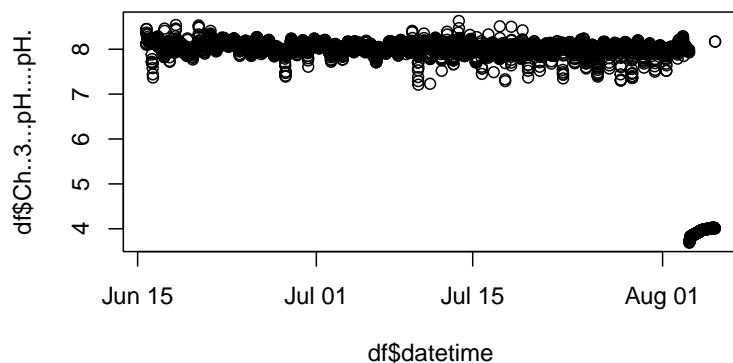
```
df <- df[,c(1:5)]
head(df)
```

	X.	Date.Time..EDT.	Ch..1...Temperature.....C..	Ch..2...Millivolts....mv.
1	1	06/15/2022 18:09:46	20.91	-84.85
2	2	06/15/2022 18:24:46	20.25	-89.80
3	3	06/15/2022 18:39:46	19.46	-70.27
4	4	06/15/2022 18:54:46	19.22	-72.31
5	5	06/15/2022 19:09:46	19.25	-71.35
6	6	06/15/2022 19:24:46	19.48	-85.28
			Ch..3...pH....pH.	
1			8.36	
2			8.45	

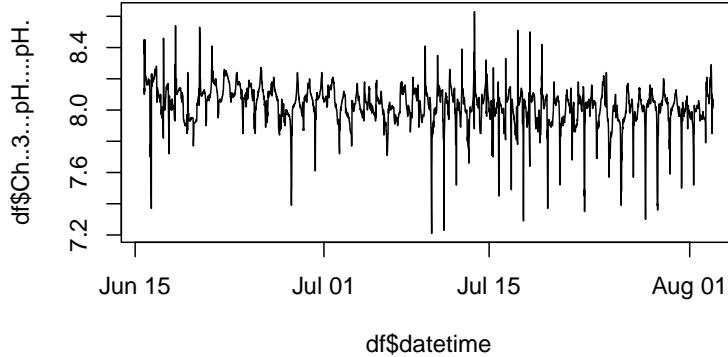
```
3          8.10
4          8.14
5          8.12
6          8.37
```

```
names(df) <- c("n", "Date.Time..EDT.", "Ch..1...Temperature.....C..", "mV", "Ch..3...pH....pH." )

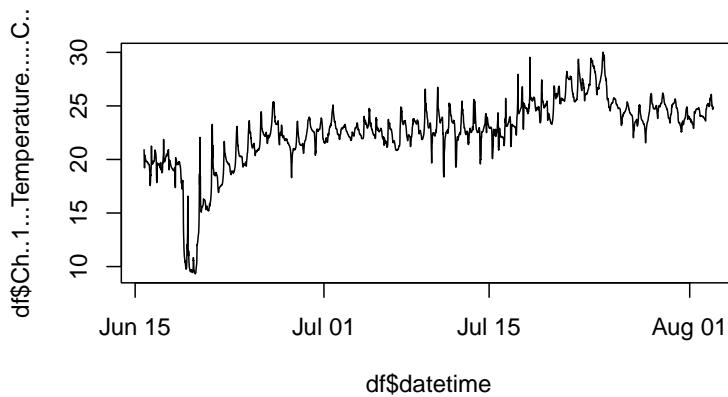
df$datetime <- as.POSIXct(strptime(df>Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
plot(df$datetime, df$Ch..3...pH....pH.)
```



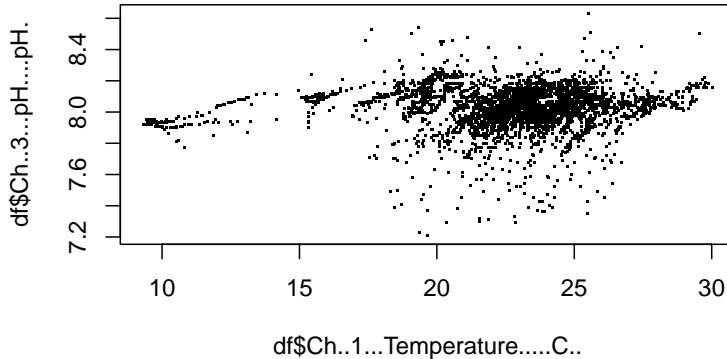
```
df <- df[df$datetime<"2022-08-03 00:08:00 EDT",]
plot(df$datetime, df$Ch..3...pH....pH., type = "l")
```



```
plot(df$datetime, df$Ch..1....Temperature.....C.., type = "l")
```



```
plot(df$Ch..1....Temperature.....C.., df$Ch..3...pH.....pH., pch = '.')
```



```
#Metadata
SN <- 560
tris <- 8.17
tris_temp <- 24.15

data_combined_new <- data.frame(
  Site = rep("Ptown",times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,length(df$datetime)),
  Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

setwd(wdPtown)
# August
(open_file <- filenames[6])
```

[1] "20573560\_Ptown 2022-09-29 17\_27\_52 EDT (Data EDT).csv.orig"

```

open_file <- "Ptown_075 2022-08-29 21_52_54 EDT (Data EDT).csv"
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

  X.      Date.Time..EDT. Ch..1...Temperature.....C.. Ch..2...Millivolts....mV.
1 1 08/02/2022 21:25:37                 NA                 NA
2 2 08/03/2022 08:00:00                23.04              175.90
3 3 08/03/2022 08:15:00                23.59              175.96
4 4 08/03/2022 08:30:00                23.98              176.02
5 5 08/03/2022 08:45:00                25.91              176.32
6 6 08/03/2022 09:00:00                25.48             -91.85
  Ch..3...pH....pH.
1                      NA
2                     3.56
3                     3.56
4                     3.57
5                     3.58
6                     8.28

names(df) <- c("n","Date.Time..EDT.", "Ch..1...Temperature.....C..","mV",
               "Ch..3...pH....pH." )

head(df)

  n      Date.Time..EDT. Ch..1...Temperature.....C..      mV Ch..3...pH....pH.
1 1 08/02/2022 21:25:37                 NA      NA                 NA
2 2 08/03/2022 08:00:00                23.04  175.90                 3.56
3 3 08/03/2022 08:15:00                23.59  175.96                 3.56
4 4 08/03/2022 08:30:00                23.98  176.02                 3.57
5 5 08/03/2022 08:45:00                25.91  176.32                 3.58
6 6 08/03/2022 09:00:00                25.48 -91.85                 8.28

tail(df)

  n      Date.Time..EDT. Ch..1...Temperature.....C..      mV
2552 2552 08/29/2022 21:30:00              24.22  156.68

```

```

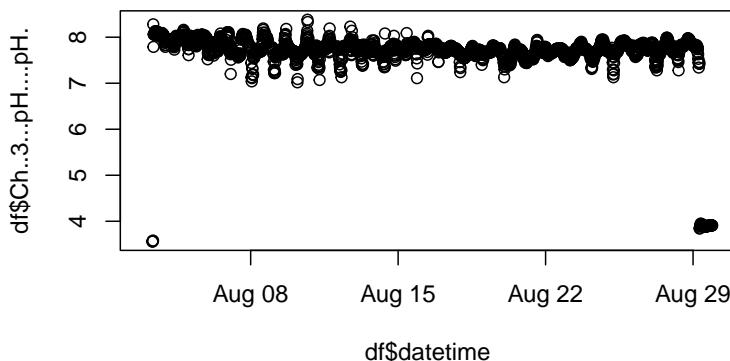
2553 2553 08/29/2022 21:45:00          24.29 156.66
2554 2554 08/29/2022 21:46:15          NA      NA
2555 2555 08/29/2022 21:46:17          NA      NA
2556 2556 08/29/2022 21:51:50          NA      NA
2557 2557 08/29/2022 21:51:51          NA      NA
Ch..3...pH....pH.
2552           3.91
2553           3.91
2554           NA
2555           NA
2556           NA
2557           NA

```

```

df$datetime <- as.POSIXct(strptime(df$date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
plot(df$datetime, df$Ch..3...pH....pH.)

```



```

df <- df[df$datetime > "2022-08-04 00:00:00 EDT",]
df <- df[df$datetime < "2022-08-29 00:00:00 EDT",]
#plot(df$datetime, df$Ch..3...pH....pH., type = "l")
#plot(df$datetime, df$Ch..1...Temperature.....C., type = "l")
#plot(df$Ch..1...Temperature.....C., df$Ch..3...pH....pH., pch = '.')
#Metadata
SN <- 075
tris <- 8.14

```

```

tris_temp <- 25.11

data_combined_new <- data.frame(
  Site = rep("Ptown", times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris, length(df$datetime)),
  Tris_temp = rep(tris_temp, length(df$datetime)),
  Serial_number = rep(SN, length(df$datetime))
)

data_combined <- rbind(data_combined, data_combined_new)

```

SN560 8/28/22

Tris 8.20pH, 24.73C

```

setwd(wdPtown)
# September
# Also is here: "20573560_Ptown 2022-11-02 15_02_10 EDT (Data EDT).csv"
open_file <- "Ptown_20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv"
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

```

	X.	Date.Time..EDT.	Ch..1...Temperature....C..	Ch..2...Millivolts....mv.
1	1	08/28/2022 13:50:27	24.65	-181.07
2	2	08/28/2022 14:04:17	NA	NA
3	3	08/28/2022 14:04:18	NA	NA
4	4	08/28/2022 14:05:27	24.68	-82.24
5	5	08/28/2022 14:11:28	NA	NA
6	6	08/28/2022 14:11:29	NA	NA
		Ch..3...pH....pH.		
1		9.93		
2		NA		
3		NA		
4		8.20		

```

5          NA
6          NA

names(df) <- c("n","Date.Time..EDT.", "Ch..1...Temperature.....C..","mV",
              "Ch..3...pH....pH." )

head(df)

      n      Date.Time..EDT. Ch..1...Temperature.....C..      mV Ch..3...pH....pH.
1 1 08/28/2022 13:50:27           24.65 -181.07       9.93
2 2 08/28/2022 14:04:17           NA      NA        NA
3 3 08/28/2022 14:04:18           NA      NA        NA
4 4 08/28/2022 14:05:27           24.68 -82.24       8.20
5 5 08/28/2022 14:11:28           NA      NA        NA
6 6 08/28/2022 14:11:29           NA      NA        NA

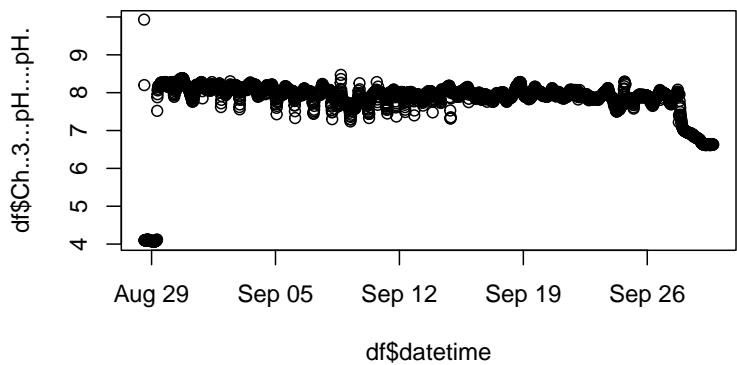
tail(df)

      n      Date.Time..EDT. Ch..1...Temperature.....C..      mV
3092 3092 09/29/2022 16:50:27           24.94  7.03
3093 3093 09/29/2022 17:05:27           24.87  7.09
3094 3094 09/29/2022 17:20:27           24.63  7.13
3095 3095 09/29/2022 17:27:26           NA      NA
3096 3096 09/29/2022 17:27:27           NA      NA
3097 3097 09/29/2022 17:27:28           NA      NA

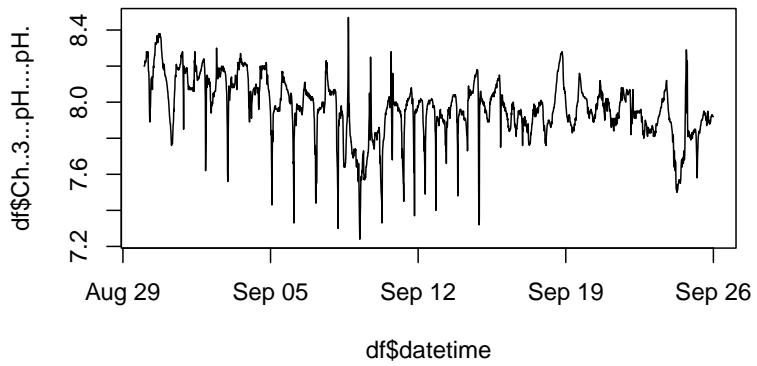
      Ch..3...pH....pH.
3092          6.63
3093          6.63
3094          6.63
3095          NA
3096          NA
3097          NA

df$datetime <- as.POSIXct(strptime(df$Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
plot(df$datetime, df$Ch..3...pH....pH.)

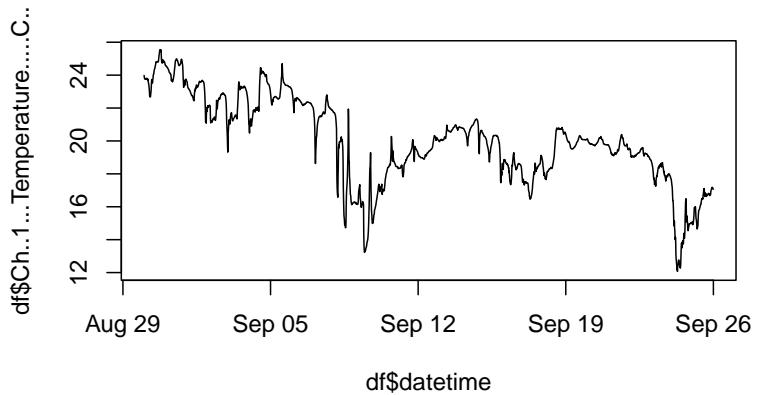
```



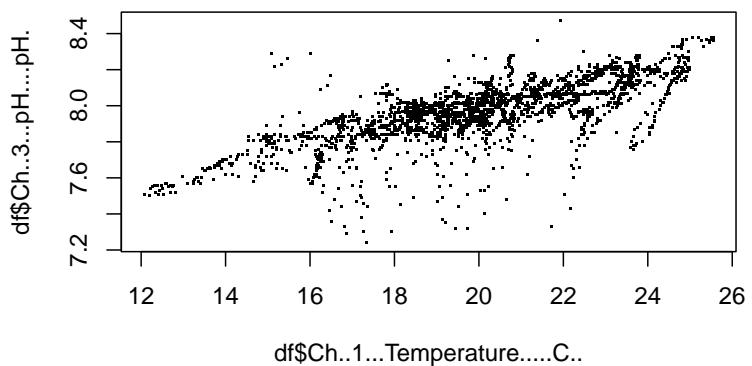
```
df <- df[df$datetime>"2022-08-30 00:00:00 EDT",]  
df <- df[df$datetime<"2022-09-26 00:00:00 EDT",]  
plot(df$datetime, df$Ch...3...pH....pH., type = "l")
```



```
plot(df$datetime, df$Ch..1....Temperature.....C.., type = "l")
```



```
plot(df$Ch..1...Temperature.....C., df$Ch..3...pH....pH., pch = '.')
```



```
#Metadata
SN <- 560
tris <- 8.20
tris_temp <- 24.73

data_combined_new <- data.frame(
  Site = rep("Ptown", times = nrow(df)),
  Date = df$datetime,
```

```

Temp = df$Ch..1...Temperature....C.,
pH = df$Ch..3...pH....pH.,
Tris = rep(tris,length(df$datetime)),
Tris_temp = rep(tris_temp,length(df$datetime)),
Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

setwd(wdPtown)
# early October
# This sensor seems to be deployed at Eel pond originally, recalibrated without a change in the
# and then moved to Ptown. The segment at Ptown starts late in the day on 9/27/22
filenames

[1] "20573560_Ptown 2022-06-15 18_08_38 EDT (Data EDT).csv"
[2] "20573560_Ptown 2022-06-15 18_08_38 EDT (Data EDT).csv.orig"
[3] "20573560_Ptown 2022-08-05 17_08_58 EDT (Data EDT).csv"
[4] "20573560_Ptown 2022-08-05 17_08_58 EDT (Data EDT).csv.orig"
[5] "20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv"
[6] "20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv.orig"
[7] "20573560_Ptown 2022-11-02 15_02_10 EDT (Data EDT).csv"
[8] "20573560_Ptown 2023-05-10 14_13_07 EDT (Data EDT).csv"
[9] "20573560_Ptown 2023-05-10 14_13_07 EDT (Data EDT).csv.orig"
[10] "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv"
[11] "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv.orig"
[12] "340_Ptown 2023-06-11 14_35_41 EDT (Data EDT)(1).csv"
[13] "Ptown 2022-05-17 14_31_47 EDT (Data EDT) 2.csv"
[14] "Ptown 2022-05-17 14_31_47 EDT (Data EDT) 2.csv.orig"
[15] "Ptown 2022-05-17 14_31_47 EDT (Data EDT).csv"
[16] "Ptown 2022-05-17 14_31_47 EDT (Data EDT).csv.orig"
[17] "Ptown 2022-06-27 15_06_47 EDT (Data EDT).csv"
[18] "Ptown 2022-06-27 15_06_47 EDT (Data EDT).csv.orig"
[19] "Ptown_075 2022-08-29 21_52_54 EDT (Data EDT).csv"
[20] "Ptown_075 2022-08-29 21_52_54 EDT (Data EDT).csv.orig"
[21] "Ptown_076 2022-12-05 21_20_00 EST (Data EST).csv"
[22] "Ptown_076 2022-12-05 21_20_00 EST (Data EST).csv.orig"
[23] "Ptown_20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv"
[24] "Ptown_20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv.orig"

```

```
open_file <- "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv"
df <- read.csv(open_file, stringsAsFactors = F)
```

```
df <- df[,c(1:5)]
head(df)
```

	X. Date.Time..EST.EDT.	Ch..1...Temperature.....C..	Ch..2...Millivolts....mV.
1	08/28/2022 14:03:02	24.65	-178.86
2	08/28/2022 14:12:50	NA	NA
3	08/28/2022 14:12:51	NA	NA
4	08/28/2022 14:12:53	NA	NA
5	08/28/2022 14:18:02	24.63	152.60
6	08/28/2022 14:33:02	25.09	156.57
	Ch..3...pH....pH.		
1	9.93		
2	NA		
3	NA		
4	NA		
5	4.12		
6	4.06		

```
names(df) <- c("n","Date.Time..EST.", "Ch..1...Temperature.....C..","mV",
               "Ch..3...pH....pH." )
```

```
head(df)
```

n	Date.Time..EST.	Ch..1...Temperature.....C..	mV	Ch..3...pH....pH.
1	08/28/2022 14:03:02	24.65	-178.86	9.93
2	08/28/2022 14:12:50	NA	NA	NA
3	08/28/2022 14:12:51	NA	NA	NA
4	08/28/2022 14:12:53	NA	NA	NA
5	08/28/2022 14:18:02	24.63	152.60	4.12
6	08/28/2022 14:33:02	25.09	156.57	4.06

```
tail(df,80)
```

n	Date.Time..EST.	Ch..1...Temperature.....C..	mV
6768	6768 11/06/2022 20:18:02	16.08	-64.69

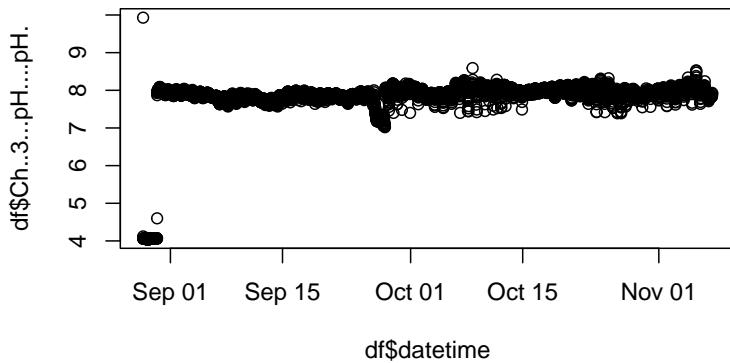
6769	6769	11/06/2022	20:33:02	16.06	-64.55
6770	6770	11/06/2022	20:48:02	16.08	-64.52
6771	6771	11/06/2022	21:03:02	16.08	-64.36
6772	6772	11/06/2022	21:18:02	16.06	-64.25
6773	6773	11/06/2022	21:33:02	16.03	-64.21
6774	6774	11/06/2022	21:48:02	16.01	-64.00
6775	6775	11/06/2022	22:03:02	15.99	-63.85
6776	6776	11/06/2022	22:18:02	15.99	-64.30
6777	6777	11/06/2022	22:33:02	15.99	-63.78
6778	6778	11/06/2022	22:48:02	16.01	-63.22
6779	6779	11/06/2022	23:03:02	16.01	-62.71
6780	6780	11/06/2022	23:18:02	16.01	-62.49
6781	6781	11/06/2022	23:33:02	16.01	-62.24
6782	6782	11/06/2022	23:48:02	16.03	-61.89
6783	6783	11/07/2022	00:03:02	16.06	-61.66
6784	6784	11/07/2022	00:18:02	16.06	-61.64
6785	6785	11/07/2022	00:33:02	16.06	-61.46
6786	6786	11/07/2022	00:48:02	16.06	-61.74
6787	6787	11/07/2022	01:03:02	16.06	-61.97
6788	6788	11/07/2022	01:18:02	16.03	-62.08
6789	6789	11/07/2022	01:33:02	16.01	-62.28
6790	6790	11/07/2022	01:48:02	15.99	-62.03
6791	6791	11/07/2022	02:03:02	15.99	-61.81
6792	6792	11/07/2022	02:18:02	15.96	-60.53
6793	6793	11/07/2022	02:33:02	15.94	-59.64
6794	6794	11/07/2022	02:48:02	15.91	-58.67
6795	6795	11/07/2022	03:03:02	15.87	-58.45
6796	6796	11/07/2022	03:18:02	15.84	-58.30
6797	6797	11/07/2022	03:33:02	15.82	-57.08
6798	6798	11/07/2022	03:48:02	15.80	-55.08
6799	6799	11/07/2022	04:03:02	15.75	-52.36
6800	6800	11/07/2022	04:18:02	15.72	-49.95
6801	6801	11/07/2022	04:33:02	15.75	-51.99
6802	6802	11/07/2022	04:48:02	15.77	-53.28
6803	6803	11/07/2022	05:03:02	15.75	-53.67
6804	6804	11/07/2022	05:18:02	15.80	-54.91
6805	6805	11/07/2022	05:33:02	15.84	-55.33
6806	6806	11/07/2022	05:48:02	15.87	-55.11
6807	6807	11/07/2022	06:03:02	15.89	-55.20
6808	6808	11/07/2022	06:18:02	15.89	-55.42
6809	6809	11/07/2022	06:33:02	15.91	-55.92

6810	6810	11/07/2022	06:48:02		15.91	-55.91
6811	6811	11/07/2022	07:03:02		15.94	-55.97
6812	6812	11/07/2022	07:18:02		15.94	-55.74
6813	6813	11/07/2022	07:33:02		15.96	-55.56
6814	6814	11/07/2022	07:48:02		15.96	-55.61
6815	6815	11/07/2022	08:03:02		15.99	-55.64
6816	6816	11/07/2022	08:18:02		16.01	-56.36
6817	6817	11/07/2022	08:33:02		16.03	-55.81
6818	6818	11/07/2022	08:48:02		16.06	-56.49
6819	6819	11/07/2022	09:03:02		16.06	-56.92
6820	6820	11/07/2022	09:18:02		16.06	-57.55
6821	6821	11/07/2022	09:33:02		16.08	-56.56
6822	6822	11/07/2022	09:48:02		16.11	-57.86
6823	6823	11/07/2022	10:03:02		16.11	-57.19
6824	6824	11/07/2022	10:18:02		16.11	-56.30
6825	6825	11/07/2022	10:33:02		16.13	-56.70
6826	6826	11/07/2022	10:48:02		16.15	-57.33
6827	6827	11/07/2022	11:03:02		16.18	-58.39
6828	6828	11/07/2022	11:18:02		16.22	-57.25
6829	6829	11/07/2022	11:33:02		16.25	-57.61
6830	6830	11/07/2022	11:48:02		16.25	-58.63
6831	6831	11/07/2022	12:03:02		16.22	-59.11
6832	6832	11/07/2022	12:18:02		16.22	-59.38
6833	6833	11/07/2022	12:33:02		16.22	-58.94
6834	6834	11/07/2022	12:48:02		16.27	-58.97
6835	6835	11/07/2022	13:03:02		16.30	-57.60
6836	6836	11/07/2022	13:18:02		16.32	-57.11
6837	6837	11/07/2022	13:33:02		16.32	-56.69
6838	6838	11/07/2022	13:48:02		16.34	-56.89
6839	6839	11/07/2022	14:03:02		16.42	-57.97
6840	6840	11/07/2022	14:18:02		16.53	-58.31
6841	6841	11/07/2022	14:33:02		16.82	-58.80
6842	6842	11/07/2022	14:48:02		17.08	-61.44
6843	6843	11/07/2022	15:03:02		17.08	-62.41
6844	6844	11/07/2022	15:10:04		NA	NA
6845	6845	11/07/2022	15:10:05		NA	NA
6846	6846	11/07/2022	15:10:09		NA	NA
6847	6847	11/07/2022	15:10:40		NA	NA
Ch..3...pH....pH.						
6768			7.97			
6769			7.97			

6770	7.97
6771	7.96
6772	7.96
6773	7.96
6774	7.96
6775	7.96
6776	7.96
6777	7.95
6778	7.94
6779	7.94
6780	7.93
6781	7.93
6782	7.92
6783	7.92
6784	7.92
6785	7.91
6786	7.92
6787	7.92
6788	7.92
6789	7.93
6790	7.92
6791	7.92
6792	7.90
6793	7.88
6794	7.86
6795	7.86
6796	7.86
6797	7.83
6798	7.80
6799	7.75
6800	7.71
6801	7.74
6802	7.77
6803	7.77
6804	7.80
6805	7.80
6806	7.80
6807	7.80
6808	7.80
6809	7.81
6810	7.81

6811	7.81
6812	7.81
6813	7.81
6814	7.81
6815	7.81
6816	7.82
6817	7.81
6818	7.82
6819	7.83
6820	7.84
6821	7.82
6822	7.85
6823	7.84
6824	7.82
6825	7.83
6826	7.84
6827	7.86
6828	7.84
6829	7.84
6830	7.86
6831	7.87
6832	7.87
6833	7.87
6834	7.87
6835	7.84
6836	7.83
6837	7.83
6838	7.83
6839	7.85
6840	7.85
6841	7.86
6842	7.91
6843	7.93
6844	NA
6845	NA
6846	NA
6847	NA

```
df$datetime <- as.POSIXct(strptime(df$Date.Time..EST., format = "%m/%d/%Y %H:%M:%S")) #Switch +  
plot(df$datetime, df$Ch..3...pH....pH.)
```



```
# df <- df[df$datetime>"2022-09-25 00:00:00 EDT",]  

# df <- df[df$datetime<"2022-09-29 13:00:00 EDT",]  

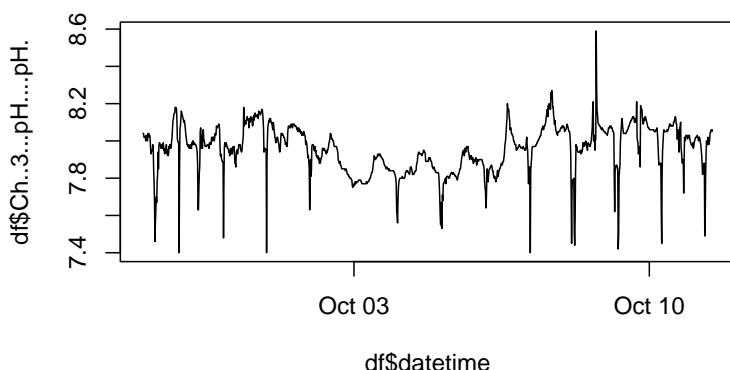
df <- df[df$datetime>"2022-09-28 00:00:00 EDT",]  

df <- df[df$datetime<"2022-10-11 12:00:00 EDT",]  

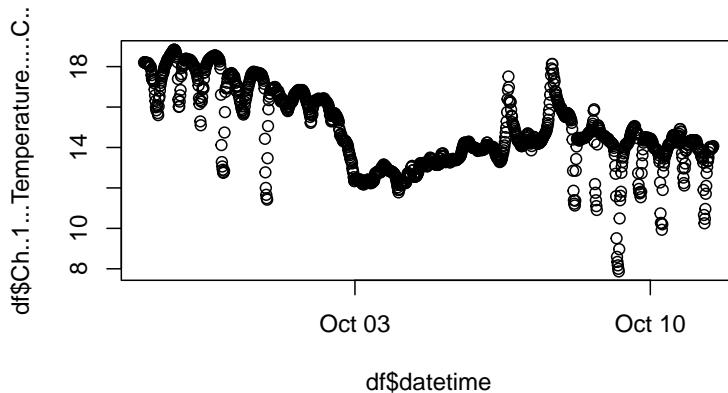
#df <- df[df$datetime<"2022-10-12 00:00:00 EDT",]  

#df <- df[df$datetime<"2022-11-07 13:00:00 EDT",]  

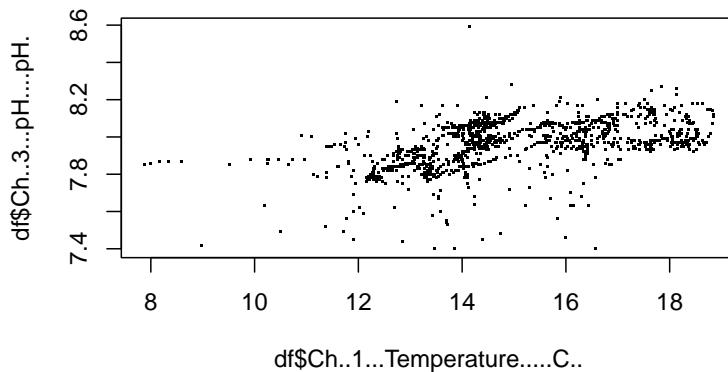
plot(df$datetime, df$Ch..3....pH....pH., type = "l")
```



```
plot(df$datetime, df$Ch..1....Temperature.....C.., type = "p")
```



```
plot(df$Ch..1...Temperature.....C., df$Ch..3...pH....pH., pch = '.')
```



```
#Metadata
SN <- 340
tris <- NA
tris_temp <- NA

data_combined_new <- data.frame(
  Site = rep("Ptown", times = nrow(df)),
  Date = df$datetime,
```

```

Temp = df$Ch..1...Temperature....C.,
pH = df$Ch..3...pH....pH.,
Tris = rep(tris,length(df$datetime)),
Tris_temp = rep(tris_temp,length(df$datetime)),
Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

setwd(wdPtown)
# late October
# This sensor seems to be deployed at Eel pond originally, recalibrated without a change in the
# and then moved to Ptown. The segment at Ptown starts late in the day on 9/27/22
filenames

[1] "20573560_Ptown 2022-06-15 18_08_38 EDT (Data EDT).csv"
[2] "20573560_Ptown 2022-06-15 18_08_38 EDT (Data EDT).csv.orig"
[3] "20573560_Ptown 2022-08-05 17_08_58 EDT (Data EDT).csv"
[4] "20573560_Ptown 2022-08-05 17_08_58 EDT (Data EDT).csv.orig"
[5] "20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv"
[6] "20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv.orig"
[7] "20573560_Ptown 2022-11-02 15_02_10 EDT (Data EDT).csv"
[8] "20573560_Ptown 2023-05-10 14_13_07 EDT (Data EDT).csv"
[9] "20573560_Ptown 2023-05-10 14_13_07 EDT (Data EDT).csv.orig"
[10] "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv"
[11] "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv.orig"
[12] "340_Ptown 2023-06-11 14_35_41 EDT (Data EDT)(1).csv"
[13] "Ptown 2022-05-17 14_31_47 EDT (Data EDT) 2.csv"
[14] "Ptown 2022-05-17 14_31_47 EDT (Data EDT) 2.csv.orig"
[15] "Ptown 2022-05-17 14_31_47 EDT (Data EDT).csv"
[16] "Ptown 2022-05-17 14_31_47 EDT (Data EDT).csv.orig"
[17] "Ptown 2022-06-27 15_06_47 EDT (Data EDT).csv"
[18] "Ptown 2022-06-27 15_06_47 EDT (Data EDT).csv.orig"
[19] "Ptown_075 2022-08-29 21_52_54 EDT (Data EDT).csv"
[20] "Ptown_075 2022-08-29 21_52_54 EDT (Data EDT).csv.orig"
[21] "Ptown_076 2022-12-05 21_20_00 EST (Data EST).csv"
[22] "Ptown_076 2022-12-05 21_20_00 EST (Data EST).csv.orig"
[23] "Ptown_20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv"
[24] "Ptown_20573560_Ptown 2022-09-29 17_27_52 EDT (Data EDT).csv.orig"

```

```

open_file <- "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv"
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

X. Date.Time..EST.EDT. Ch..1...Temperature.....C.. Ch..2...Millivolts....mV.
1 1 08/28/2022 14:03:02 24.65 -178.86
2 2 08/28/2022 14:12:50 NA NA
3 3 08/28/2022 14:12:51 NA NA
4 4 08/28/2022 14:12:53 NA NA
5 5 08/28/2022 14:18:02 24.63 152.60
6 6 08/28/2022 14:33:02 25.09 156.57

Ch..3...pH....pH.
1 9.93
2 NA
3 NA
4 NA
5 4.12
6 4.06

names(df) <- c("n","Date.Time..EST.", "Ch..1...Temperature.....C..","mV",
               "Ch..3...pH....pH." )

head(df)

n      Date.Time..EST. Ch..1...Temperature.....C..      mV Ch..3...pH....pH.
1 1 08/28/2022 14:03:02 24.65 -178.86 9.93
2 2 08/28/2022 14:12:50 NA NA NA
3 3 08/28/2022 14:12:51 NA NA NA
4 4 08/28/2022 14:12:53 NA NA NA
5 5 08/28/2022 14:18:02 24.63 152.60 4.12
6 6 08/28/2022 14:33:02 25.09 156.57 4.06

tail(df,80)

n      Date.Time..EST. Ch..1...Temperature.....C..      mV

```

6768	6768	11/06/2022	20:18:02	16.08	-64.69
6769	6769	11/06/2022	20:33:02	16.06	-64.55
6770	6770	11/06/2022	20:48:02	16.08	-64.52
6771	6771	11/06/2022	21:03:02	16.08	-64.36
6772	6772	11/06/2022	21:18:02	16.06	-64.25
6773	6773	11/06/2022	21:33:02	16.03	-64.21
6774	6774	11/06/2022	21:48:02	16.01	-64.00
6775	6775	11/06/2022	22:03:02	15.99	-63.85
6776	6776	11/06/2022	22:18:02	15.99	-64.30
6777	6777	11/06/2022	22:33:02	15.99	-63.78
6778	6778	11/06/2022	22:48:02	16.01	-63.22
6779	6779	11/06/2022	23:03:02	16.01	-62.71
6780	6780	11/06/2022	23:18:02	16.01	-62.49
6781	6781	11/06/2022	23:33:02	16.01	-62.24
6782	6782	11/06/2022	23:48:02	16.03	-61.89
6783	6783	11/07/2022	00:03:02	16.06	-61.66
6784	6784	11/07/2022	00:18:02	16.06	-61.64
6785	6785	11/07/2022	00:33:02	16.06	-61.46
6786	6786	11/07/2022	00:48:02	16.06	-61.74
6787	6787	11/07/2022	01:03:02	16.06	-61.97
6788	6788	11/07/2022	01:18:02	16.03	-62.08
6789	6789	11/07/2022	01:33:02	16.01	-62.28
6790	6790	11/07/2022	01:48:02	15.99	-62.03
6791	6791	11/07/2022	02:03:02	15.99	-61.81
6792	6792	11/07/2022	02:18:02	15.96	-60.53
6793	6793	11/07/2022	02:33:02	15.94	-59.64
6794	6794	11/07/2022	02:48:02	15.91	-58.67
6795	6795	11/07/2022	03:03:02	15.87	-58.45
6796	6796	11/07/2022	03:18:02	15.84	-58.30
6797	6797	11/07/2022	03:33:02	15.82	-57.08
6798	6798	11/07/2022	03:48:02	15.80	-55.08
6799	6799	11/07/2022	04:03:02	15.75	-52.36
6800	6800	11/07/2022	04:18:02	15.72	-49.95
6801	6801	11/07/2022	04:33:02	15.75	-51.99
6802	6802	11/07/2022	04:48:02	15.77	-53.28
6803	6803	11/07/2022	05:03:02	15.75	-53.67
6804	6804	11/07/2022	05:18:02	15.80	-54.91
6805	6805	11/07/2022	05:33:02	15.84	-55.33
6806	6806	11/07/2022	05:48:02	15.87	-55.11
6807	6807	11/07/2022	06:03:02	15.89	-55.20
6808	6808	11/07/2022	06:18:02	15.89	-55.42

6809	6809	11/07/2022	06:33:02		15.91	-55.92
6810	6810	11/07/2022	06:48:02		15.91	-55.91
6811	6811	11/07/2022	07:03:02		15.94	-55.97
6812	6812	11/07/2022	07:18:02		15.94	-55.74
6813	6813	11/07/2022	07:33:02		15.96	-55.56
6814	6814	11/07/2022	07:48:02		15.96	-55.61
6815	6815	11/07/2022	08:03:02		15.99	-55.64
6816	6816	11/07/2022	08:18:02		16.01	-56.36
6817	6817	11/07/2022	08:33:02		16.03	-55.81
6818	6818	11/07/2022	08:48:02		16.06	-56.49
6819	6819	11/07/2022	09:03:02		16.06	-56.92
6820	6820	11/07/2022	09:18:02		16.06	-57.55
6821	6821	11/07/2022	09:33:02		16.08	-56.56
6822	6822	11/07/2022	09:48:02		16.11	-57.86
6823	6823	11/07/2022	10:03:02		16.11	-57.19
6824	6824	11/07/2022	10:18:02		16.11	-56.30
6825	6825	11/07/2022	10:33:02		16.13	-56.70
6826	6826	11/07/2022	10:48:02		16.15	-57.33
6827	6827	11/07/2022	11:03:02		16.18	-58.39
6828	6828	11/07/2022	11:18:02		16.22	-57.25
6829	6829	11/07/2022	11:33:02		16.25	-57.61
6830	6830	11/07/2022	11:48:02		16.25	-58.63
6831	6831	11/07/2022	12:03:02		16.22	-59.11
6832	6832	11/07/2022	12:18:02		16.22	-59.38
6833	6833	11/07/2022	12:33:02		16.22	-58.94
6834	6834	11/07/2022	12:48:02		16.27	-58.97
6835	6835	11/07/2022	13:03:02		16.30	-57.60
6836	6836	11/07/2022	13:18:02		16.32	-57.11
6837	6837	11/07/2022	13:33:02		16.32	-56.69
6838	6838	11/07/2022	13:48:02		16.34	-56.89
6839	6839	11/07/2022	14:03:02		16.42	-57.97
6840	6840	11/07/2022	14:18:02		16.53	-58.31
6841	6841	11/07/2022	14:33:02		16.82	-58.80
6842	6842	11/07/2022	14:48:02		17.08	-61.44
6843	6843	11/07/2022	15:03:02		17.08	-62.41
6844	6844	11/07/2022	15:10:04		NA	NA
6845	6845	11/07/2022	15:10:05		NA	NA
6846	6846	11/07/2022	15:10:09		NA	NA
6847	6847	11/07/2022	15:10:40		NA	NA

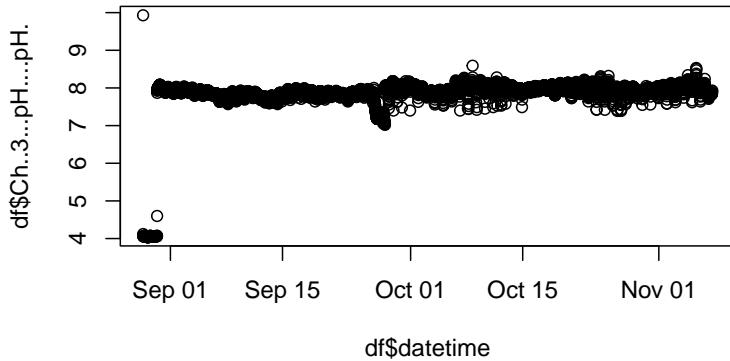
Ch..3...pH....pH.

6768                    7.97

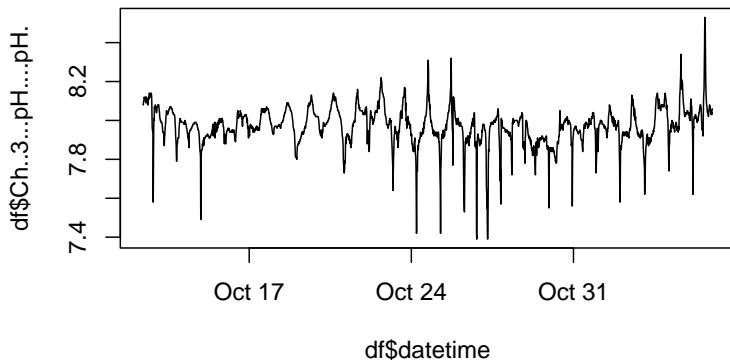
6769	7.97
6770	7.97
6771	7.96
6772	7.96
6773	7.96
6774	7.96
6775	7.96
6776	7.96
6777	7.95
6778	7.94
6779	7.94
6780	7.93
6781	7.93
6782	7.92
6783	7.92
6784	7.92
6785	7.91
6786	7.92
6787	7.92
6788	7.92
6789	7.93
6790	7.92
6791	7.92
6792	7.90
6793	7.88
6794	7.86
6795	7.86
6796	7.86
6797	7.83
6798	7.80
6799	7.75
6800	7.71
6801	7.74
6802	7.77
6803	7.77
6804	7.80
6805	7.80
6806	7.80
6807	7.80
6808	7.80
6809	7.81

6810	7.81
6811	7.81
6812	7.81
6813	7.81
6814	7.81
6815	7.81
6816	7.82
6817	7.81
6818	7.82
6819	7.83
6820	7.84
6821	7.82
6822	7.85
6823	7.84
6824	7.82
6825	7.83
6826	7.84
6827	7.86
6828	7.84
6829	7.84
6830	7.86
6831	7.87
6832	7.87
6833	7.87
6834	7.87
6835	7.84
6836	7.83
6837	7.83
6838	7.83
6839	7.85
6840	7.85
6841	7.86
6842	7.91
6843	7.93
6844	NA
6845	NA
6846	NA
6847	NA

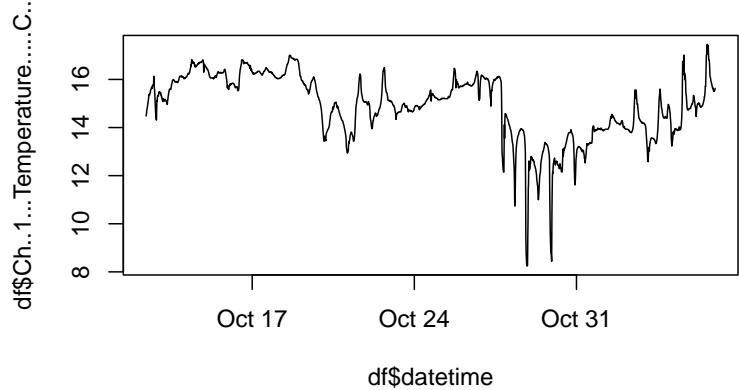
```
df$datetime <- as.POSIXct(strptime(df>Date.Time..EST., format = "%m/%d/%Y %H:%M:%S")) #Switch to EST  
plot(df$datetime, df$Ch..3....pH....pH.)
```



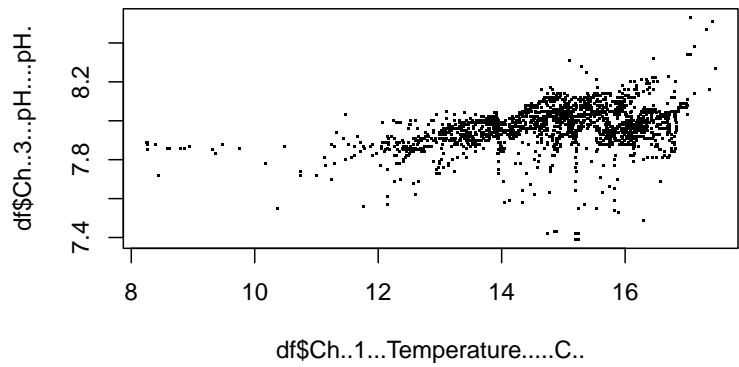
```
#df <- df[df$datetime>"2022-09-28 00:00:00 EDT",]  
#df <- df[df$datetime<"2022-10-11 06:00:00 EDT",]  
df <- df[df$datetime>"2022-10-12 10:00:00 EDT",]  
df <- df[df$datetime<"2022-11-06 00:00:00 EDT",]  
plot(df$datetime, df$Ch..3....pH....pH., type = "l")
```



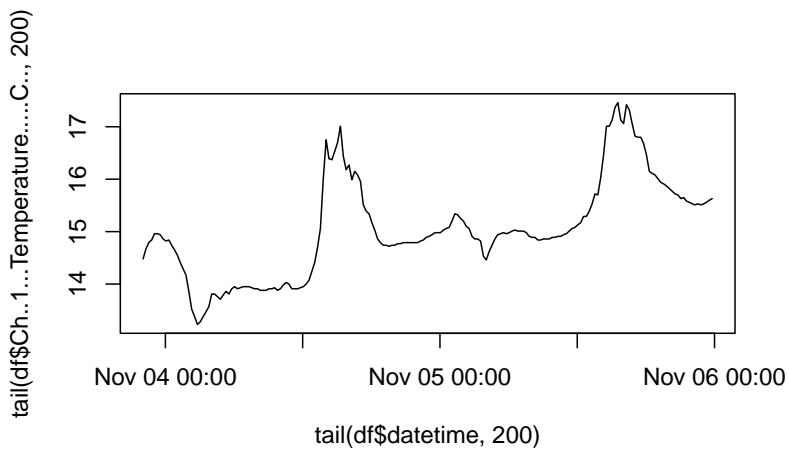
```
plot(df$datetime, df$Ch..1...Temperature.....C., type = "l")
```



```
plot(df$Ch..1...Temperature.....C., df$Ch..3...pH....pH., pch = '.')
```



```
plot(x = tail(df$datetime,200), y = tail(df$Ch..1...Temperature.....C.,200), type = "l")
```



```
#Metadata
SN <- 340
tris <- NA
tris_temp <- NA

data_combined_new <- data.frame(
  Site = rep("Ptown", times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris, length(df$datetime)),
  Tris_temp = rep(tris_temp, length(df$datetime)),
  Serial_number = rep(SN, length(df$datetime))
)

data_combined <- rbind(data_combined, data_combined_new)

#Moved up from Eel. It seems like this sensor was previously an Eel Pond sensor but was moved to Ptown
setwd(wdEel)
# November
#(open_file <- filenames[3])
open_file <- "20573560_Ptown 2022-12-05 16_55_15 EST (Data EST)_actuallyEel.csv"

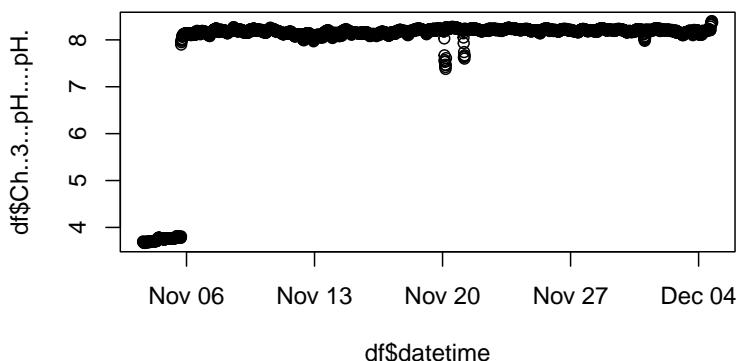
df <- read.csv(open_file, stringsAsFactors = F)
```

```
df <- df[,c(1:5)]
head(df)
```

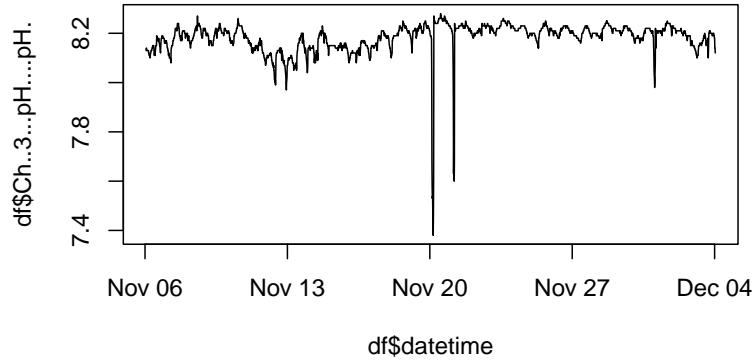
```
X. Date.Time..EST.EDT. Ch..1...Temperature.....C.. Ch..2...Millivolts....mv.
1 1 11/04/2022 15:00:00          29.51        179.72
2 2 11/04/2022 15:15:00         26.92        178.65
3 3 11/04/2022 15:30:00         23.33        176.79
4 4 11/04/2022 15:45:00         22.27        176.02
5 5 11/04/2022 16:00:00         20.98        175.36
6 6 11/04/2022 16:15:00         20.25        175.02
Ch..3...pH....pH.
1           3.70
2           3.69
3           3.68
4           3.69
5           3.68
6           3.68
```

```
names(df) <- c("n","Date.Time..EST.", "Ch..1...Temperature.....C..","mV",
               "Ch..3...pH....pH." )
```

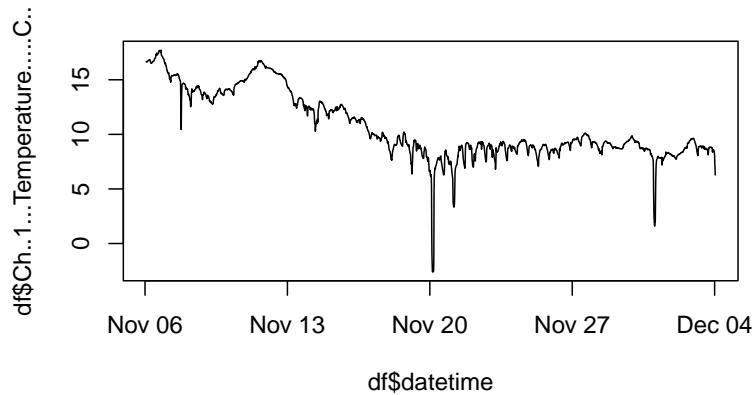
```
df$datetime <- as.POSIXct(strptime(df$Date.Time..EST., format = "%m/%d/%Y %H:%M:%S")) #Change to POSIXct
plot(df$datetime, df$Ch..3...pH....pH.)
```



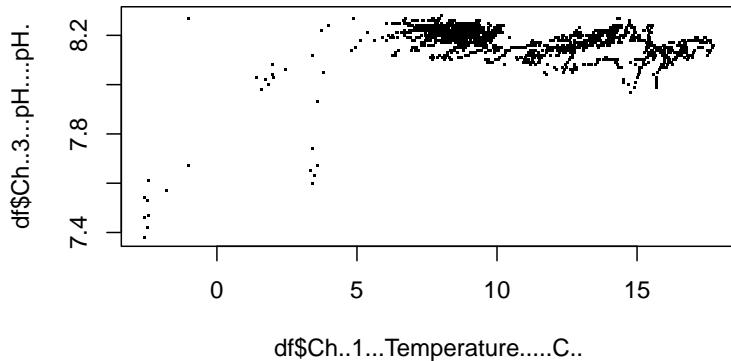
```
df <- df[df$datetime>"2022-11-07 00:00:00 EDT",]  
df <- df[df$datetime<"2022-12-05 00:00:00 EDT",]  
plot(df$datetime, df$Ch..3...pH....pH., type = "l")
```



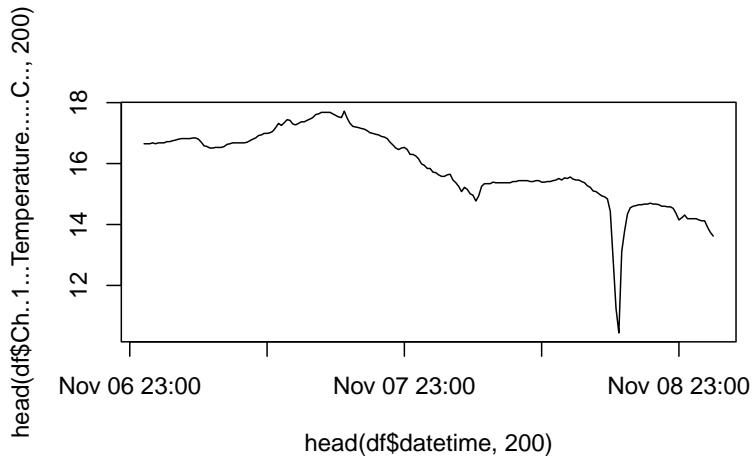
```
plot(df$datetime, df$Ch..1...Temperature.....C.., type = "l")
```



```
plot(df$Ch..1...Temperature.....C.., df$Ch..3...pH....pH., pch = '.')
```



```
plot(x = head(df$datetime,200), y = head(df$Ch..1...Temperature.....C.,200), type = "l")
```



```
#Metadata
SN <- 560
tris <- 8.30
tris_temp <- 22.37

data_combined_new <- data.frame(
  Site = rep("Ptown",times = nrow(df)),
  Date = df$datetime,
```

```

Temp = df$Ch..1...Temperature.....C.,
pH = df$Ch..3...pH....pH.,
Tris = rep(tris,length(df$datetime)),
Tris_temp = rep(tris_temp,length(df$datetime)),
Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

setwd(wdPtown)
# skip to April to avoid freezing temps

open_file <- "20573560_Ptown 2023-05-10 14_13_07 EDT (Data EDT).csv"
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

X. Date.Time..EDT. Ch..1...Temperature.....C. Ch..2...Millivolts....mv.
1 1 4/17/23 12:00 21.17 96.46
2 2 4/17/23 12:15 21.84 96.67
3 3 4/17/23 12:30 22.13 96.92
4 4 4/17/23 12:45 22.20 97.14
5 5 4/17/23 13:00 22.30 97.21
6 6 4/17/23 13:15 22.35 97.28
Ch..3...pH....pH.
1 4.82
2 4.82
3 4.82
4 4.82
5 4.82
6 4.82

names(df) <- c("n","Date.Time..EDT.", "Ch..1...Temperature.....C.,","mV",
              "Ch..3...pH....pH. " )

head(df)

n Date.Time..EDT. Ch..1...Temperature.....C.      mV Ch..3...pH....pH.

```

1	1	4/17/23	12:00	21.17	96.46	4.82
2	2	4/17/23	12:15	21.84	96.67	4.82
3	3	4/17/23	12:30	22.13	96.92	4.82
4	4	4/17/23	12:45	22.20	97.14	4.82
5	5	4/17/23	13:00	22.30	97.21	4.82
6	6	4/17/23	13:15	22.35	97.28	4.82

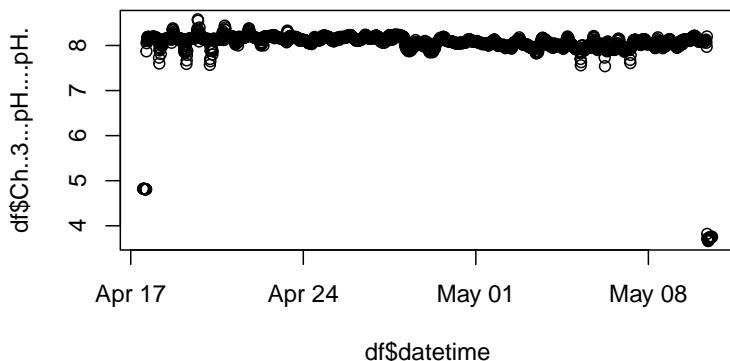
```
tail(df,80)
```

n		Date	Time..EDT.	Ch..1...	Temperature.....C.	mV	Ch..3...	pH....pH.
2141	2141	5/9/23	19:00		13.14	-86.77		8.18
2142	2142	5/9/23	19:15		13.06	-87.05		8.19
2143	2143	5/9/23	19:30		13.02	-87.44		8.19
2144	2144	5/9/23	19:45		12.92	-87.80		8.20
2145	2145	5/9/23	20:00		12.85	-87.85		8.20
2146	2146	5/9/23	20:15		12.73	-87.71		8.20
2147	2147	5/9/23	20:30		12.63	-87.99		8.21
2148	2148	5/9/23	20:45		12.63	-88.58		8.22
2149	2149	5/9/23	21:00		12.46	-88.19		8.21
2150	2150	5/9/23	21:15		12.27	-87.89		8.20
2151	2151	5/9/23	21:30		12.17	-87.35		8.20
2152	2152	5/9/23	21:45		12.12	-87.25		8.19
2153	2153	5/9/23	22:00		12.19	-87.57		8.20
2154	2154	5/9/23	22:15		12.22	-87.17		8.19
2155	2155	5/9/23	22:30		12.19	-86.77		8.18
2156	2156	5/9/23	22:45		12.17	-85.92		8.17
2157	2157	5/9/23	23:00		12.15	-84.64		8.14
2158	2158	5/9/23	23:15		12.10	-84.61		8.14
2159	2159	5/9/23	23:30		12.12	-84.07		8.13
2160	2160	5/9/23	23:45		12.15	-83.60		8.12
2161	2161	5/10/23	0:00		12.17	-83.74		8.13
2162	2162	5/10/23	0:15		12.17	-83.30		8.12
2163	2163	5/10/23	0:30		12.15	-82.99		8.11
2164	2164	5/10/23	0:45		12.17	-82.52		8.10
2165	2165	5/10/23	1:00		12.19	-82.32		8.10
2166	2166	5/10/23	1:15		12.10	-81.21		8.08
2167	2167	5/10/23	1:30		12.12	-81.31		8.08
2168	2168	5/10/23	1:45		12.19	-81.66		8.09
2169	2169	5/10/23	2:00		12.24	-82.55		8.10
2170	2170	5/10/23	2:15		12.32	-82.80		8.11

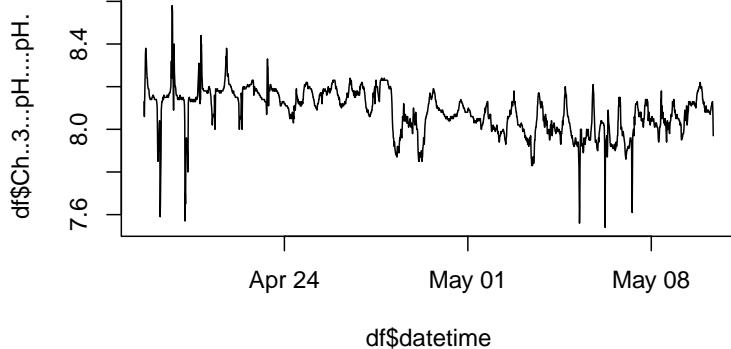
2171	2171	5/10/23 2:30	12.27	-81.71	8.09
2172	2172	5/10/23 2:45	12.24	-81.72	8.09
2173	2173	5/10/23 3:00	12.27	-81.38	8.08
2174	2174	5/10/23 3:15	12.32	-81.86	8.09
2175	2175	5/10/23 3:30	12.32	-81.69	8.09
2176	2176	5/10/23 3:45	12.34	-81.88	8.09
2177	2177	5/10/23 4:00	12.36	-81.89	8.09
2178	2178	5/10/23 4:15	12.36	-81.74	8.09
2179	2179	5/10/23 4:30	12.32	-81.39	8.08
2180	2180	5/10/23 4:45	12.29	-81.42	8.08
2181	2181	5/10/23 5:00	12.29	-81.27	8.08
2182	2182	5/10/23 5:15	12.32	-81.22	8.08
2183	2183	5/10/23 5:30	12.34	-81.41	8.08
2184	2184	5/10/23 5:45	12.34	-81.38	8.08
2185	2185	5/10/23 6:00	12.34	-80.89	8.07
2186	2186	5/10/23 6:15	12.34	-81.71	8.09
2187	2187	5/10/23 6:30	12.36	-82.03	8.09
2188	2188	5/10/23 6:45	12.36	-82.14	8.10
2189	2189	5/10/23 7:00	12.36	-82.82	8.11
2190	2190	5/10/23 7:15	12.34	-82.69	8.11
2191	2191	5/10/23 7:30	12.32	-83.28	8.12
2192	2192	5/10/23 7:45	12.34	-83.46	8.12
2193	2193	5/10/23 8:00	12.36	-83.66	8.13
2194	2194	5/10/23 8:15	12.41	-83.02	8.11
2195	2195	5/10/23 8:30	12.61	-80.03	8.06
2196	2196	5/10/23 8:45	13.06	-75.30	7.97
2197	2197	5/10/23 9:00	13.47	-87.85	8.20
2198	2198	5/10/23 9:15	16.32	148.97	3.82
2199	2199	5/10/23 9:30	20.46	156.52	3.72
2200	2200	5/10/23 9:45	17.42	156.58	3.69
2201	2201	5/10/23 10:00	16.30	156.50	3.68
2202	2202	5/10/23 10:15	15.70	157.13	3.66
2203	2203	5/10/23 10:30	15.49	156.11	3.67
2204	2204	5/10/23 10:45	15.58	154.60	3.70
2205	2205	5/10/23 11:00	16.39	154.71	3.71
2206	2206	5/10/23 11:15	17.37	154.55	3.72
2207	2207	5/10/23 11:30	18.27	154.33	3.74
2208	2208	5/10/23 11:45	18.41	154.27	3.74
2209	2209	5/10/23 12:00	18.77	154.22	3.75
2210	2210	5/10/23 12:15	19.17	154.60	3.74
2211	2211	5/10/23 12:30	18.91	155.43	3.73

2212	2212	5/10/23 12:45	19.32	155.05	3.74
2213	2213	5/10/23 13:00	19.67	154.75	3.75
2214	2214	5/10/23 13:15	20.01	154.91	3.75
2215	2215	5/10/23 13:30	20.17	154.99	3.75
2216	2216	5/10/23 13:45	20.01	154.44	3.76
2217	2217	5/10/23 14:00	19.86	154.52	3.75
2218	2218	5/10/23 14:12	NA	NA	NA
2219	2219	5/10/23 14:12	NA	NA	NA
2220	2220	5/10/23 14:12	NA	NA	NA

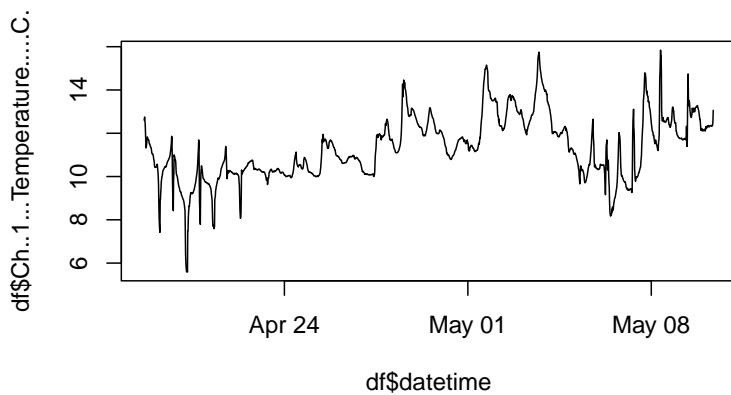
```
df$datetime <- as.POSIXct(strptime(df$Date.Time..EDT., format = "%m/%d/%y %H:%M")) #Switch to local time
plot(df$datetime, df$Ch..3...pH....pH.)
```



```
df <- df[df$datetime > "2023-04-18 15:15:15",]
df <- df[df$datetime < "2023-05-10 09:00:00",]
plot(df$datetime, df$Ch..3...pH....pH., type = "l")
```



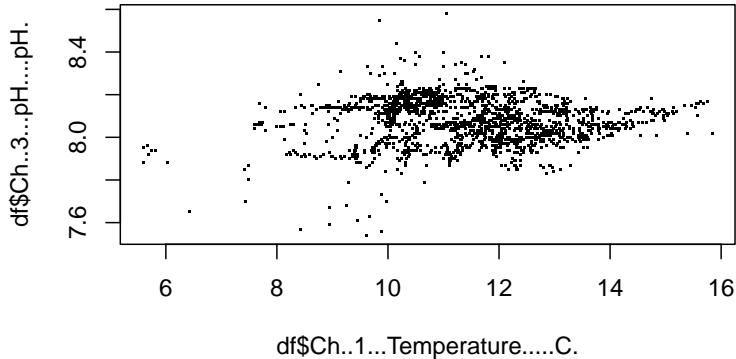
```
plot(df$datetime, df$Ch..1....Temperature.....C., type = "l")
```



```
length(df$Ch..1....Temperature.....C.)
```

[1] 2086

```
plot(df$Ch..1....Temperature.....C., df$Ch..3...pH....pH., pch = '.')
```



```

#Metadata
SN <- 560
tris <- 8.298 #Updated 12/23/23
tris_temp <- 21.4 #Updated 12/23/23

data_combined_new <- data.frame(
  Site = rep("Ptown",times = length(df$datetime)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,times = length(df$datetime)),
  Serial_number = rep(SN,times = length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

setwd(wdPtown)
# skip to April to avoid freezing temps

open_file <- "340_Ptown 2023-06-11 14_35_41 EDT (Data EDT)(1).csv"
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

```

```

X.      Date.Time..EDT. Ch.1...Temperature.....C. Ch.2...Millivolts....mV.
1 1 05/09/2023 16:11:07             NA             NA
2 2 05/09/2023 16:11:08             NA             NA
3 3 05/09/2023 16:11:10             NA             NA
4 4 05/10/2023 08:00:00            17.58          174.33
5 5 05/10/2023 08:15:00            17.39          174.15
6 6 05/10/2023 08:30:00            17.20          174.07

Ch.3...pH....pH.
1             NA
2             NA
3             NA
4            3.54
5            3.54
6            3.54

```

```

names(df) <- c("n","Date.Time..EDT.", "Ch..1...Temperature.....C.,","mV",
               "Ch.3...pH....pH." )

```

```
head(df)
```

n	Date.Time..EDT.	Ch..1...Temperature.....C.	mV	Ch.3...pH....pH.
1	1 05/09/2023 16:11:07		NA	NA
2	2 05/09/2023 16:11:08		NA	NA
3	3 05/09/2023 16:11:10		NA	NA
4	4 05/10/2023 08:00:00	17.58	174.33	3.54
5	5 05/10/2023 08:15:00	17.39	174.15	3.54
6	6 05/10/2023 08:30:00	17.20	174.07	3.54

```
tail(df,80)
```

n	Date.Time..EDT.	Ch..1...Temperature.....C.	mV
3026	3026 06/10/2023 19:30:00		15.22 -85.72
3027	3027 06/10/2023 19:45:00		15.25 -85.22
3028	3028 06/10/2023 20:00:00		15.27 -84.91
3029	3029 06/10/2023 20:15:00		15.29 -81.83
3030	3030 06/10/2023 20:30:00		15.34 -82.10
3031	3031 06/10/2023 20:45:00		15.34 -83.02
3032	3032 06/10/2023 21:00:00		15.37 -84.67
3033	3033 06/10/2023 21:15:00		15.41 -84.83

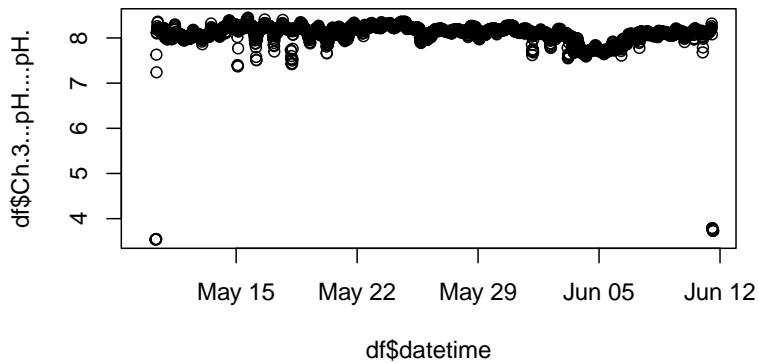
3034	3034	06/10/2023	21:30:00	15.46	-84.53
3035	3035	06/10/2023	21:45:00	15.53	-84.16
3036	3036	06/10/2023	22:00:00	15.70	-84.97
3037	3037	06/10/2023	22:15:00	15.91	-85.25
3038	3038	06/10/2023	22:30:00	16.13	-86.21
3039	3039	06/10/2023	22:45:00	16.20	-85.71
3040	3040	06/10/2023	23:00:00	16.18	-85.07
3041	3041	06/10/2023	23:15:00	16.11	-84.21
3042	3042	06/10/2023	23:30:00	15.96	-79.52
3043	3043	06/10/2023	23:45:00	15.77	-77.63
3044	3044	06/11/2023	00:00:00	15.44	-59.27
3045	3045	06/11/2023	00:15:00	15.53	-65.61
3046	3046	06/11/2023	00:30:00	15.65	-76.21
3047	3047	06/11/2023	00:45:00	15.53	-81.85
3048	3048	06/11/2023	01:00:00	15.60	-82.57
3049	3049	06/11/2023	01:15:00	15.70	-83.63
3050	3050	06/11/2023	01:30:00	15.72	-84.02
3051	3051	06/11/2023	01:45:00	15.68	-83.58
3052	3052	06/11/2023	02:00:00	15.65	-83.14
3053	3053	06/11/2023	02:15:00	15.58	-82.85
3054	3054	06/11/2023	02:30:00	15.58	-83.10
3055	3055	06/11/2023	02:45:00	15.60	-83.86
3056	3056	06/11/2023	03:00:00	15.60	-83.32
3057	3057	06/11/2023	03:15:00	15.60	-83.85
3058	3058	06/11/2023	03:30:00	15.63	-83.83
3059	3059	06/11/2023	03:45:00	15.65	-84.47
3060	3060	06/11/2023	04:00:00	15.63	-84.75
3061	3061	06/11/2023	04:15:00	15.60	-84.58
3062	3062	06/11/2023	04:30:00	15.60	-84.08
3063	3063	06/11/2023	04:45:00	15.58	-83.55
3064	3064	06/11/2023	05:00:00	15.58	-83.11
3065	3065	06/11/2023	05:15:00	15.58	-82.50
3066	3066	06/11/2023	05:30:00	15.56	-83.16
3067	3067	06/11/2023	05:45:00	15.56	-82.24
3068	3068	06/11/2023	06:00:00	15.53	-82.36
3069	3069	06/11/2023	06:15:00	15.53	-82.92
3070	3070	06/11/2023	06:30:00	15.49	-83.60
3071	3071	06/11/2023	06:45:00	15.49	-83.21
3072	3072	06/11/2023	07:00:00	15.46	-82.69
3073	3073	06/11/2023	07:15:00	15.44	-83.38
3074	3074	06/11/2023	07:30:00	15.46	-83.24

3075	3075	06/11/2023	07:45:00		15.46	-83.74
3076	3076	06/11/2023	08:00:00		15.49	-84.02
3077	3077	06/11/2023	08:15:00		15.49	-84.49
3078	3078	06/11/2023	08:30:00		15.51	-83.80
3079	3079	06/11/2023	08:45:00		15.56	-84.66
3080	3080	06/11/2023	09:00:00		15.60	-84.99
3081	3081	06/11/2023	09:15:00		15.68	-85.83
3082	3082	06/11/2023	09:30:00		15.77	-85.99
3083	3083	06/11/2023	09:45:00		15.82	-85.72
3084	3084	06/11/2023	10:00:00		15.89	-85.58
3085	3085	06/11/2023	10:15:00		15.99	-85.89
3086	3086	06/11/2023	10:30:00		16.18	-86.46
3087	3087	06/11/2023	10:45:00		16.51	-87.27
3088	3088	06/11/2023	11:00:00		17.01	-87.22
3089	3089	06/11/2023	11:15:00		17.51	-87.58
3090	3090	06/11/2023	11:30:00		18.32	-88.47
3091	3091	06/11/2023	11:45:00		19.13	-89.17
3092	3092	06/11/2023	12:00:00		19.98	-90.44
3093	3093	06/11/2023	12:15:00		21.13	-93.13
3094	3094	06/11/2023	12:30:00		22.23	-96.67
3095	3095	06/11/2023	12:45:00		22.90	-83.22
3096	3096	06/11/2023	13:00:00		24.39	164.54
3097	3097	06/11/2023	13:15:00		24.05	164.21
3098	3098	06/11/2023	13:30:00		23.35	164.32
3099	3099	06/11/2023	13:45:00		21.99	164.46
3100	3100	06/11/2023	14:00:00		22.13	166.18
3101	3101	06/11/2023	14:15:00		22.35	166.46
3102	3102	06/11/2023	14:30:00		22.54	166.85
3103	3103	06/11/2023	14:35:14		NA	NA
3104	3104	06/11/2023	14:35:15		NA	NA
3105	3105	06/11/2023	14:35:16		NA	NA
Ch.3...pH....pH.						
3026			8.15			
3027			8.15			
3028			8.14			
3029			8.08			
3030			8.09			
3031			8.11			
3032			8.13			
3033			8.14			
3034			8.13			

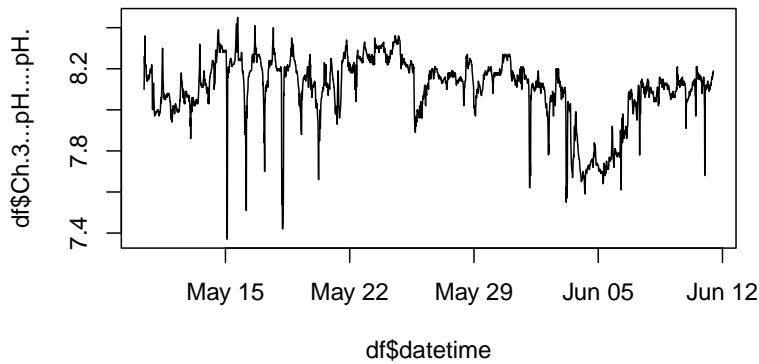
3035	8.12
3036	8.14
3037	8.14
3038	8.16
3039	8.15
3040	8.14
3041	8.12
3042	8.04
3043	8.01
3044	7.68
3045	7.79
3046	7.98
3047	8.08
3048	8.10
3049	8.11
3050	8.12
3051	8.11
3052	8.11
3053	8.10
3054	8.11
3055	8.12
3056	8.11
3057	8.12
3058	8.12
3059	8.13
3060	8.14
3061	8.13
3062	8.12
3063	8.11
3064	8.11
3065	8.10
3066	8.11
3067	8.09
3068	8.09
3069	8.10
3070	8.12
3071	8.11
3072	8.10
3073	8.11
3074	8.11
3075	8.12

3076	8.12
3077	8.13
3078	8.12
3079	8.13
3080	8.14
3081	8.15
3082	8.16
3083	8.15
3084	8.15
3085	8.15
3086	8.16
3087	8.18
3088	8.17
3089	8.18
3090	8.19
3091	8.20
3092	8.22
3093	8.26
3094	8.32
3095	8.08
3096	3.79
3097	3.79
3098	3.78
3099	3.76
3100	3.73
3101	3.73
3102	3.73
3103	NA
3104	NA
3105	NA

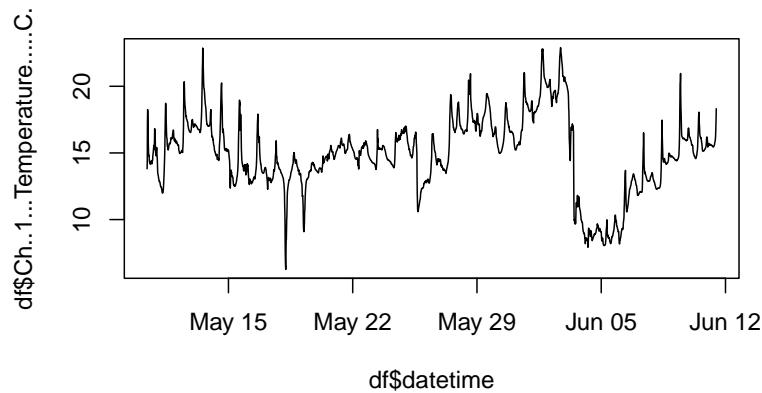
```
df$datetime <- as.POSIXct(strptime(df>Date.Time..EDT., format = "%m/%d/%Y %H:%M")) #Switch to L
```



```
df <- df[df$datetime>"2023-05-10 09:45:00",]
df <- df[df$datetime<"2023-06-11 11:45:00",]
plot(df$datetime, df$Ch.3...pH....pH., type = "l")
```



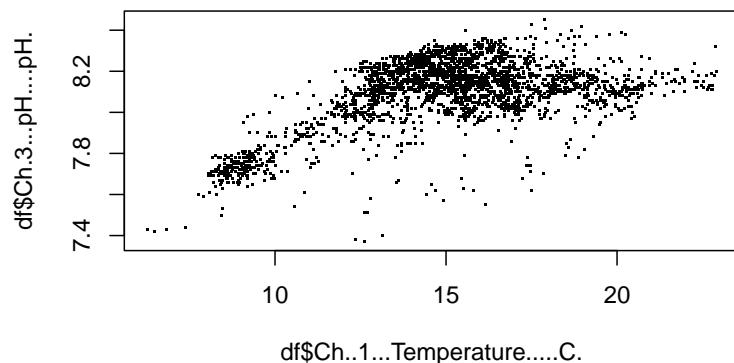
```
plot(df$datetime, df$Ch..1....Temperature.....C., type = "l")
```



```
length(df$Ch.1...Temperature.....C.)
```

[1] 3079

```
plot(df$Ch.1...Temperature.....C., df$Ch.3...pH....pH., pch = '.')
```



```
#Metadata  
SN <- 340  
tris <- 8.19
```

```

tris_temp <- 21.3

data_combined_new <- data.frame(
  Site = rep("Ptown", times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature....C.,
  pH = df$Ch.3...pH....pH.,
  Tris = rep(tris, length(df$datetime)),
  Tris_temp = rep(tris_temp, length(df$datetime)),
  Serial_number = rep(SN, length(df$datetime))
)

data_combined <- rbind(data_combined, data_combined_new)

```

### 0.1.3 Eel Pond

```

setwd(wdEel)
filenames <- dir()
#filenames

setwd(wdEel)
#mid June to Aug
#(open_file <- filenames[2])
(open_file <- "21333340_Eel_Pond 2022-08-05 17_43_02 EDT (Data EDT).csv")

[1] "21333340_Eel_Pond 2022-08-05 17_43_02 EDT (Data EDT).csv"

df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

  X.      Date.Time..EDT. Ch..1...Temperature....C.. Ch..2...Millivolts....mv.
1  1 06/14/2022 21:26:05                      NA                      NA
2  2 06/16/2022 08:00:00                     17.53                   177.04
3  3 06/16/2022 08:15:00                     17.77                   177.05
4  4 06/16/2022 08:30:00                     17.94                   177.04

```

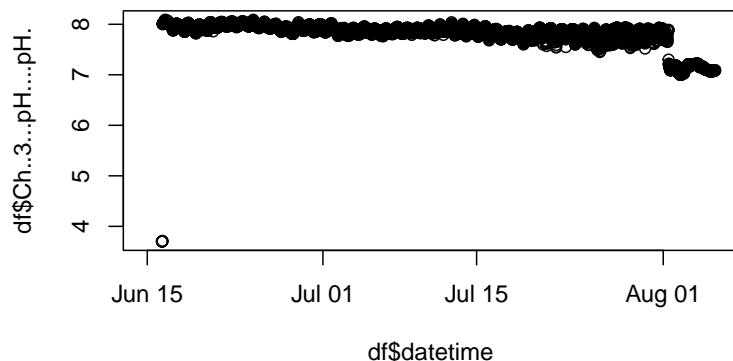
5	5	06/16/2022	08:45:00		18.13	177.05
6	6	06/16/2022	09:00:00		18.27	177.02
Ch..3...pH....pH.						
1				NA		
2				3.70		
3				3.70		
4				3.70		
5				3.70		
6				3.71		

```

names(df) <- c("n","Date.Time..EDT.", "Ch..1...Temperature.....C..","mV",
               "Ch..3...pH....pH." )

df$datetime <- as.POSIXct(strptime(df>Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
plot(df$datetime, df$Ch..3...pH....pH.)

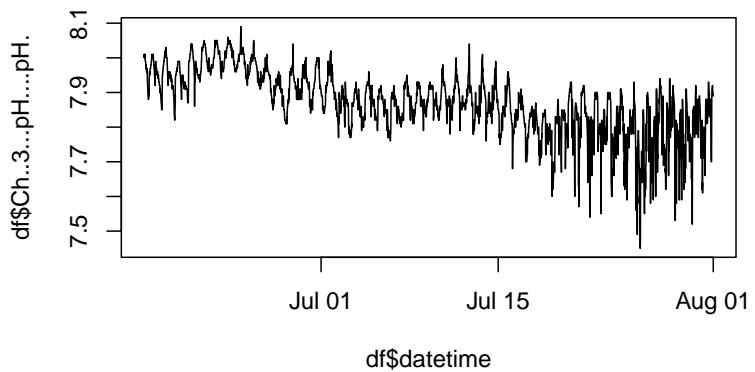
```



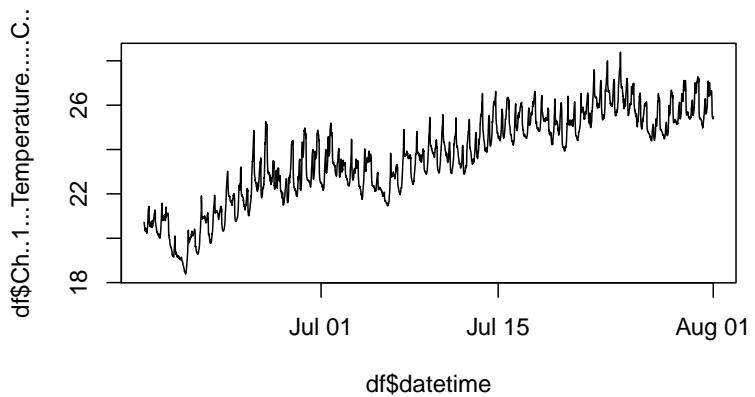
```

df <- df[df$datetime<"2022-08-01 00:09:00 EDT",]
df <- df[df$datetime>"2022-06-17 00:00:00 EDT",]
plot(df$datetime, df$Ch..3...pH....pH., type = "l")

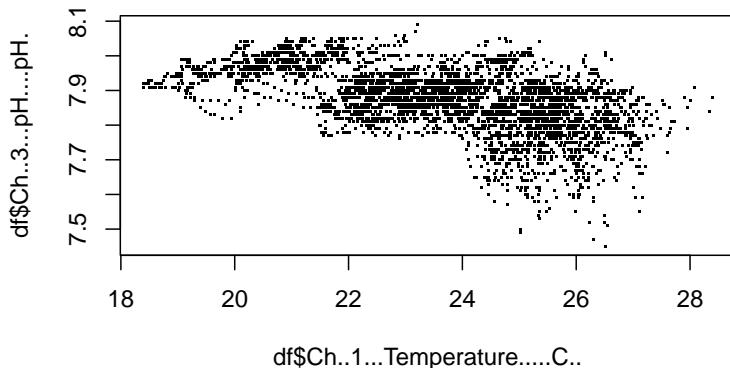
```



```
plot(df$datetime, df$Ch..1....Temperature.....C.., type = "l")
```



```
plot(df$Ch..1....Temperature.....C.., df$Ch..3...pH....pH., pch = '.')
```



```
#Metadata
SN <- 340
tris <- 8.14
tris_temp <- 24.73

data_combined_new <- data.frame(
  Site = rep("Eel",times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,length(df$datetime)),
  Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)
# Aug to lateAug is on logger that is still logging in Eel Pond and
# needs to be retrieved.
# There was an issue with the tool when swapping them out

setwd(wdEel)
#Aug to lateAug
(open_file <- filenames[4])
```

[1] "21333340\_Eel\_Pond 2022-06-13 08\_27\_36 EDT (Data EDT).csv.orig"

```
(open_file <- "Eel_076 2022-09-27 13_35_57 EDT (Data EDT).csv")

[1] "Eel_076 2022-09-27 13_35_57 EDT (Data EDT).csv"

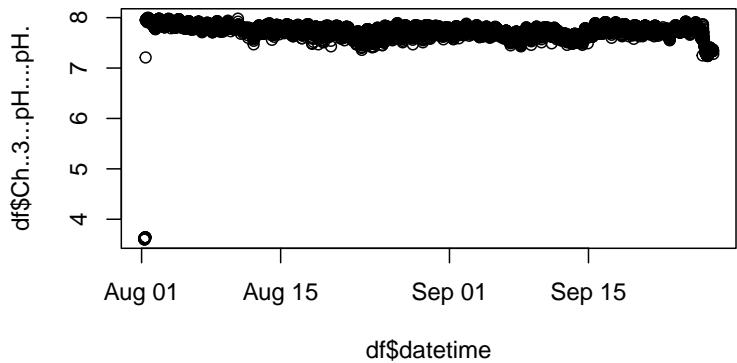
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

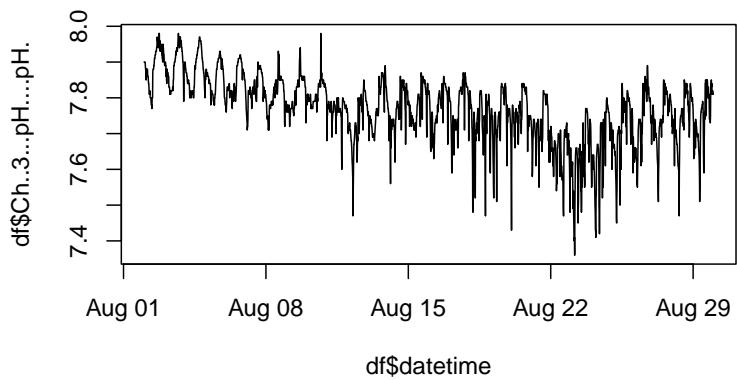
  X.      Date.Time..EDT. Ch..1...Temperature.....C.. Ch..2...Millivolts....mv.
1 1 08/01/2022 06:00:00          24.53           181.61
2 2 08/01/2022 06:15:00          24.39           181.61
3 3 08/01/2022 06:30:00          23.30           181.57
4 4 08/01/2022 06:45:00          22.51           181.33
5 5 08/01/2022 07:00:00          21.94           181.11
6 6 08/01/2022 07:15:00          22.15           180.91
  Ch..3...pH....pH.
1             3.62
2             3.62
3             3.61
4             3.60
5             3.60
6             3.60

names(df) <- c("n","Date.Time..EDT.", "Ch..1...Temperature.....C..","mV",
              "Ch..3...pH....pH." )

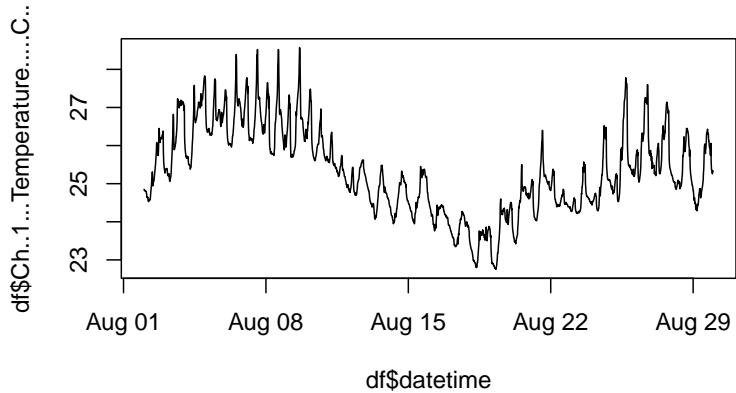
df$datetime <- as.POSIXct(strptime(df>Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
plot(df$datetime, df$Ch..3...pH....pH.)
```



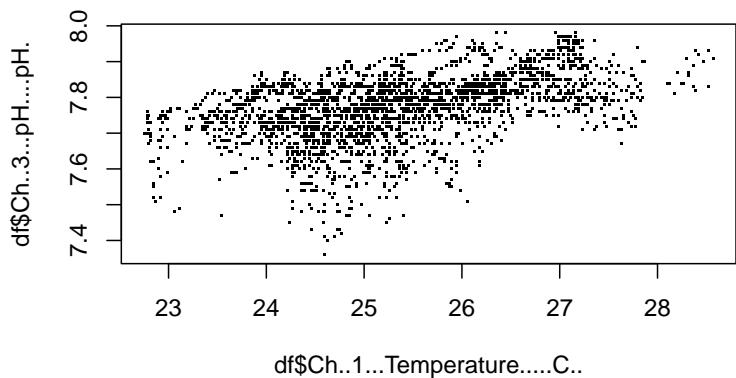
```
df <- df[df$datetime<"2022-08-30 00:00:00 EDT",]  
df <- df[df$datetime>"2022-08-02 00:00:00 EDT",]  
plot(df$datetime, df$Ch...3...pH....pH., type = "l")
```



```
plot(df$datetime, df$Ch..1....Temperature.....C.., type = "l")
```



```
plot(df$Ch..1...Temperature....C., df$Ch..3...pH....pH., pch = '.')
```



```
#Metadata
SN <- 076
tris <- 8.15
tris_temp <- 24.85

data_combined_new <- data.frame(
  Site = rep("Eel",times = nrow(df)),
  Date = df$datetime,
```

```

Temp = df$Ch..1...Temperature.....C.,
pH = df$Ch..3...pH....pH.,
Tris = rep(tris,length(df$datetime)),
Tris_temp = rep(tris_temp,length(df$datetime)),
Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)
# Aug to lateAug is on logger that is still logging in Eel Pond and
# needs to be retrieved.
# There was an issue with the tool when swapping them out

# # lateAug to mid Sep (was still logging and deployed -
# # but lost ~14 days of data due to calibrating before downloading data)
# (open_file <- filenames[3])
# open_file <- "21333340_Eel_Pond 2022-09-11 18_27_18 EDT (Data EDT).csv"
#
# df <- read.csv(open_file, stringsAsFactors = F)
# df$datetime <- as.POSIXct(strptime(df>Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S"))
# plot(df$datetime, df$Ch..3...pH....pH.)
# df <- df[df$datetime>"2022-08-31 00:00:00 EDT",]
# df <- df[df$datetime<"2022-09-11 00:00:00 EDT",]
# plot(df$datetime, df$Ch..3...pH....pH., type = "l")
# plot(df$datetime, df$Ch..1...Temperature.....C., type = "l")
# plot(df$Ch..1...Temperature.....C., df$Ch..3...pH....pH., pch = '.')
#
# data_combined_new <- data.frame(
#   Site = rep("Eel",times = nrow(df)),
#   Date = df$datetime,
#   Temp = df$Ch..1...Temperature.....C.,
#   pH = df$Ch..3...pH....pH.
# )
#
#
# data_combined <- rbind(data_combined,data_combined_new)

setwd(wdEel)
# #October???
# #October is not clear.

```

```

# #If the other logger was still logging and deployed at this site
# (open_file <- filenames[3])
# open_file <- "Eel_076 2022-11-07 15_16_01 EST (Data EST)(1).csv"
# head(df, 20)
# df <- read.csv(open_file, stringsAsFactors = F)
# df$datetime <- as.POSIXct(strptime(df>Date.Time..EST., format = "%m/%d/%Y %H:%M:%S")) #Change
# plot(df$datetime, df$Ch..3...pH....pH.)
# df <- df[df$datetime>"2022-09-25 00:00:00 EDT",]
# # df <- df[df$datetime<"2022-09-30 00:00:00 EDT",]
#
# #df <- df[df$datetime<"2022-08-31 00:00:00 EDT",]
# #df <- df[df$datetime>"2022-08-26 00:00:00 EDT",]
# plot(df$datetime, df$Ch..3...pH....pH., type = "l")
# plot(df$datetime, df$Ch..1...Temperature.....C.., type = "p")
# plot(df$Ch..1...Temperature.....C.., df$Ch..3...pH....pH., pch = '.')
#
# data_combined_new <- data.frame(
#   Site = rep("Eel",times = nrow(df)),
#   Date = df$datetime,
#   Temp = df$Ch..1...Temperature.....C..,
#   pH = df$Ch..3...pH....pH.
# )
#
#
# data_combined <- rbind(data_combined,data_combined_new)

# October
# This sensor seems to be deployed at Eel pond originally, recalibrated without a change in the
# and then moved to Ptown. The segment at Eel Pond ends on Monday 9/26/22.
# It was deployed on 8/31/22. Which is a day we were at Eel Pond
filenames

```

```

[1] "20573560_Ptown 2022-12-05 16_55_15 EST (Data EST)_actuallyEel.csv"
[2] "20573560_Ptown 2022-12-05 16_55_15 EST (Data EST)_actuallyEel.csv.orig"
[3] "21333340_Eel_Pond 2022-06-13 08_27_36 EDT (Data EDT).csv"
[4] "21333340_Eel_Pond 2022-06-13 08_27_36 EDT (Data EDT).csv.orig"
[5] "21333340_Eel_Pond 2022-08-05 17_43_02 EDT (Data EDT).csv"
[6] "21333340_Eel_Pond 2022-08-05 17_43_02 EDT (Data EDT).csv.orig"
[7] "21333340_Eel_Pond 2022-09-11 18_27_18 EDT (Data EDT).csv"
[8] "21333340_Eel_Pond 2022-09-11 18_27_18 EDT (Data EDT).csv.orig"

```

```

[9] "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv"
[10] "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv.orig"
[11] "21333340_Eel_Pond 2023-04-14 15_22_46 EDT (Data EDT)(1).csv"
[12] "21333340_Eel_Pond 2023-05-08 09_10_54 EDT (Data EDT).csv"
[13] "21333340_Eel_Pond 2023-05-08 09_10_54 EDT (Data EDT).csv.orig"
[14] "Eel_076 2022-09-27 13_35_57 EDT (Data EDT).csv"
[15] "Eel_076 2022-09-27 13_35_57 EDT (Data EDT).csv.orig"
[16] "Eel_076 2022-11-07 09_15_44 EST (Data EST).xlsx"
[17] "Eel_076 2022-11-07 09_15_44 EST (Data EST).xlsx.orig"
[18] "Eel_076 2022-11-07 15_16_01 EST (Data EST)(1).csv"
[19] "Eel_076 2022-11-07 15_16_01 EST (Data EST)(1).csv.orig"
[20] "Eel_076 2023-06-11 14_39_04 EDT (Data EDT).csv"

```

```

open_file <- "21333340_Eel_Pond 2022-11-07 15_11_16 EST (Data EST)_actuallyPtown.csv"
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

```

	X. Date.Time..EST.EDT. Ch..1...Temperature.....C..	Ch..2...Millivolts....mv.
1	08/28/2022 14:03:02	24.65
2	08/28/2022 14:12:50	NA
3	08/28/2022 14:12:51	NA
4	08/28/2022 14:12:53	NA
5	08/28/2022 14:18:02	24.63
6	08/28/2022 14:33:02	25.09
	Ch..3...pH....pH.	
1	9.93	
2	NA	
3	NA	
4	NA	
5	4.12	
6	4.06	

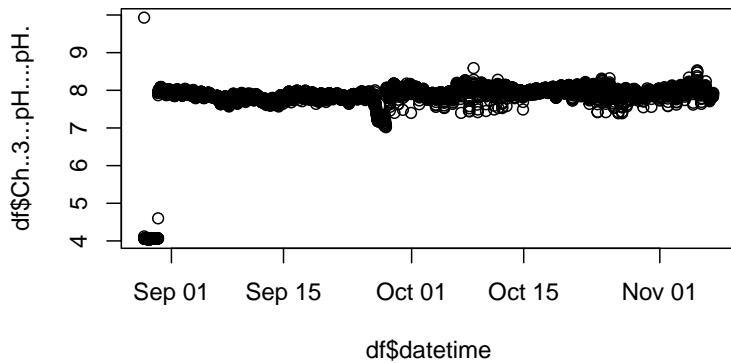
```

names(df) <- c("n","Date.Time..EST.", "Ch..1...Temperature.....C..","mV",
              "Ch..3...pH....pH." )

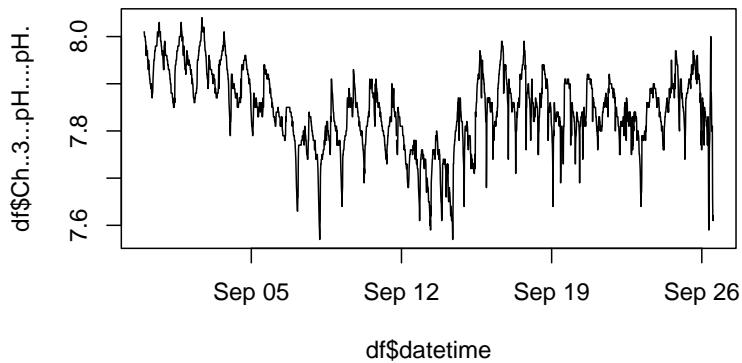
df$datetime <- as.POSIXct(strptime(df>Date.Time..EST., format = "%m/%d/%Y %H:%M:%S")) #Switch to date time

plot(df$datetime, df$Ch..3...pH....pH.)

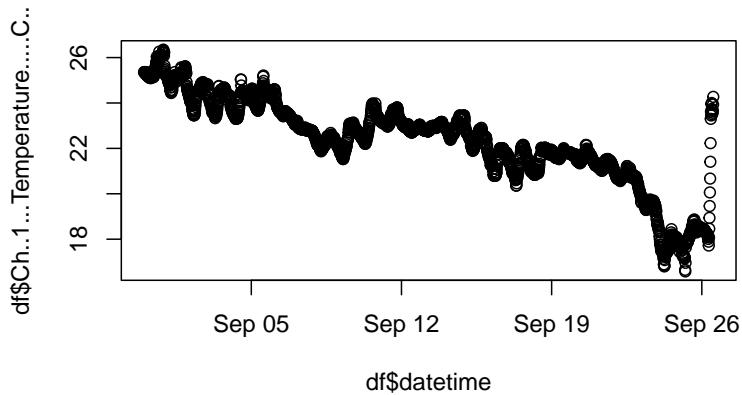
```



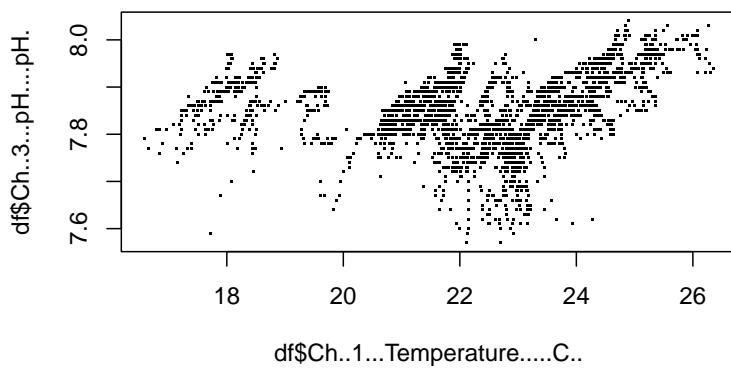
```
# df <- df[df$datetime>"2022-09-25 00:00:00 EDT",]
# df <- df[df$datetime<"2022-09-29 13:00:00 EDT",]
df <- df[df$datetime>"2022-08-31 00:00:00 EDT",]
df <- df[df$datetime<"2022-09-26 13:00:00 EDT",]
plot(df$datetime, df$Ch..3...pH....pH., type = "l")
```



```
plot(df$datetime, df$Ch..1....Temperature.....C., type = "p")
```



```
plot(df$Ch..1...Temperature.....C., df$Ch..3...pH....pH., pch = '.')
```



```
#Metadata
SN <- 340
tris <- 8.18
tris_temp <- 24.73

data_combined_new <- data.frame(
  Site = rep("Eel",times = nrow(df)),
  Date = df$datetime,
```

```

Temp = df$Ch..1...Temperature.....C.,
pH = df$Ch..3...pH....pH.,
Tris = rep(tris,length(df$datetime)),
Tris_temp = rep(tris_temp,length(df$datetime)),
Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

setwd(wdEel)
# Early October
#(open_file <- filenames[3])
open_file <- "Eel_076 2022-11-07 15_16_01 EST (Data EST)(1).csv"
head(df, 20)

      n      Date.Time..EST. Ch..1...Temperature.....C..      mV
236 236 08/31/2022 00:03:02          25.36 -69.21
237 237 08/31/2022 00:18:02          25.36 -69.19
238 238 08/31/2022 00:33:02          25.33 -68.96
239 239 08/31/2022 00:48:02          25.36 -68.94
240 240 08/31/2022 01:03:02          25.36 -68.55
241 241 08/31/2022 01:18:02          25.33 -68.39
242 242 08/31/2022 01:33:02          25.28 -68.25
243 243 08/31/2022 01:48:02          25.31 -68.05
244 244 08/31/2022 02:03:02          25.26 -67.47
245 245 08/31/2022 02:18:02          25.36 -66.60
246 246 08/31/2022 02:33:02          25.33 -67.31
247 247 08/31/2022 02:48:02          25.36 -67.22
248 248 08/31/2022 03:03:02          25.23 -66.75
249 249 08/31/2022 03:18:02          25.21 -66.53
250 250 08/31/2022 03:33:02          25.21 -66.77
251 251 08/31/2022 03:48:02          25.21 -66.72
252 252 08/31/2022 04:03:02          25.21 -65.96
253 253 08/31/2022 04:18:02          25.19 -65.75
254 254 08/31/2022 04:33:02          25.19 -65.58
255 255 08/31/2022 04:48:02          25.16 -64.85

      Ch..3...pH....pH.      datetime
236           8.01 2022-08-31 00:03:02
237           8.01 2022-08-31 00:18:02
238           8.00 2022-08-31 00:33:02

```

```
239      8.00 2022-08-31 00:48:02
240      8.00 2022-08-31 01:03:02
241      8.00 2022-08-31 01:18:02
242      7.99 2022-08-31 01:33:02
243      7.99 2022-08-31 01:48:02
244      7.98 2022-08-31 02:03:02
245      7.96 2022-08-31 02:18:02
246      7.98 2022-08-31 02:33:02
247      7.97 2022-08-31 02:48:02
248      7.97 2022-08-31 03:03:02
249      7.96 2022-08-31 03:18:02
250      7.97 2022-08-31 03:33:02
251      7.97 2022-08-31 03:48:02
252      7.95 2022-08-31 04:03:02
253      7.95 2022-08-31 04:18:02
254      7.95 2022-08-31 04:33:02
255      7.93 2022-08-31 04:48:02
```

```
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)
```

	X. Date.Time..EST.EDT.	Ch..1...Temperature.....C..	Ch..2...Millivolts....mv.
1	08/01/2022 06:00:00	24.53	181.61
2	08/01/2022 06:15:00	24.39	181.61
3	08/01/2022 06:30:00	23.30	181.57
4	08/01/2022 06:45:00	22.51	181.33
5	08/01/2022 07:00:00	21.94	181.11
6	08/01/2022 07:15:00	22.15	180.91

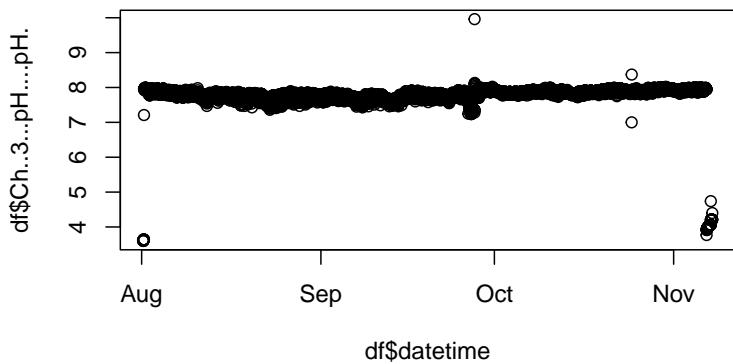
	Ch..3...pH....pH.
1	3.62
2	3.62
3	3.61
4	3.60
5	3.60
6	3.60

```

names(df) <- c("n", "Date.Time..EST.", "Ch..1...Temperature.....C..", "mV",
              "Ch..3...pH....pH." )

df$datetime <- as.POSIXct(strptime(df$Date.Time..EST., format = "%m/%d/%Y %H:%M:%S")) #Change +
plot(df$datetime, df$Ch..3...pH....pH.)

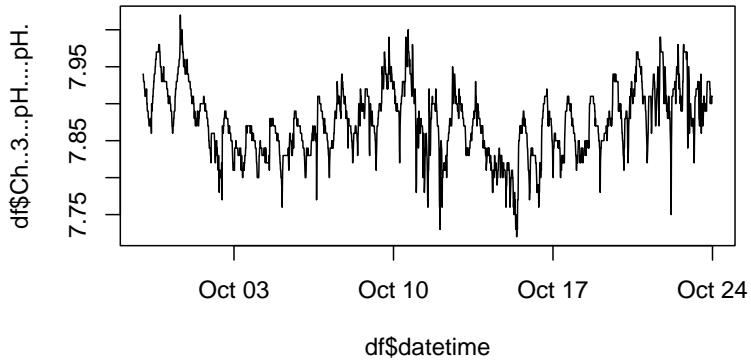
```



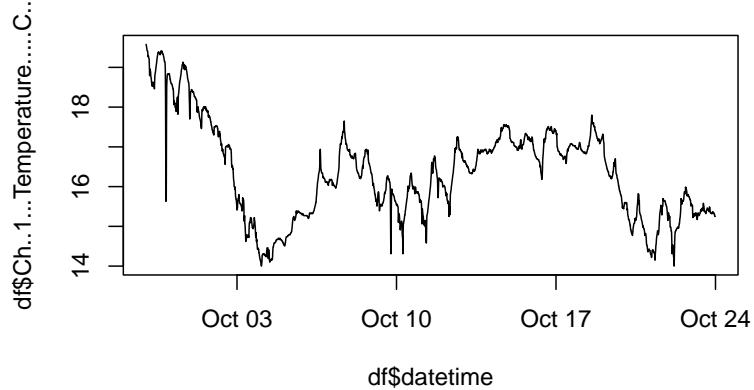
```

df <- df[df$datetime>"2022-09-29 00:00:00 EDT",]
df <- df[df$datetime<"2022-10-24 00:00:00 EDT",]
#df <- df[df$datetime<"2022-11-06 00:00:00 EDT",]
plot(df$datetime, df$Ch..3...pH....pH., type = "l")

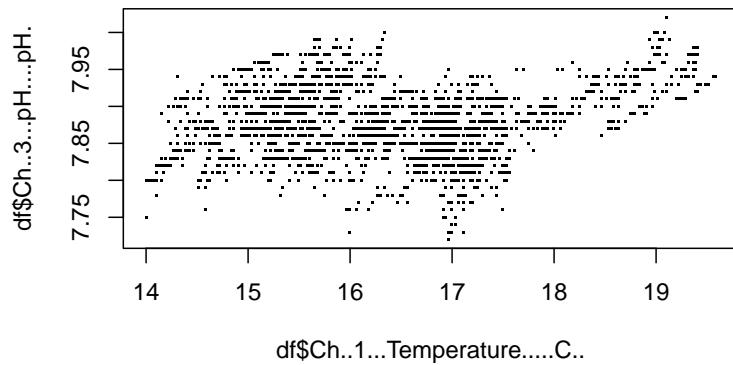
```



```
plot(df$datetime, df$Ch..1...Temperature.....C., type = "l")
```



```
plot(df$Ch..1...Temperature.....C., df$Ch..3...pH.....pH., pch = '.')
```



```
#Metadata  
SN <- 076  
tris <- NA  
tris_temp <- NA
```

```

data_combined_new <- data.frame(
  Site = rep("Eel",times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,length(df$datetime)),
  Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

```

```

setwd(wdEel)
# late October
#(open_file <- filenames[3])
open_file <- "Eel_076 2022-11-07 15_16_01 EST (Data EST)(1).csv"
head(df, 20)

```

n	Date.Time..EST.	Ch..1...Temperature.....C..	mV
5649	5649 09/29/2022 00:15:00		19.58 -62.19
5650	5650 09/29/2022 00:30:00		19.56 -61.97
5651	5651 09/29/2022 00:45:00		19.51 -61.81
5652	5652 09/29/2022 01:00:00		19.48 -61.56
5653	5653 09/29/2022 01:15:00		19.44 -61.56
5654	5654 09/29/2022 01:30:00		19.41 -61.50
5655	5655 09/29/2022 01:45:00		19.41 -61.30
5656	5656 09/29/2022 02:00:00		19.39 -60.91
5657	5657 09/29/2022 02:15:00		19.27 -60.49
5658	5658 09/29/2022 02:30:00		19.29 -60.61
5659	5659 09/29/2022 02:45:00		19.29 -60.67
5660	5660 09/29/2022 03:00:00		19.25 -60.66
5661	5661 09/29/2022 03:15:00		19.22 -60.64
5662	5662 09/29/2022 03:30:00		19.20 -60.20
5663	5663 09/29/2022 03:45:00		18.98 -60.78
5664	5664 09/29/2022 04:00:00		18.79 -60.92
5665	5665 09/29/2022 04:15:00		18.96 -59.92
5666	5666 09/29/2022 04:30:00		18.91 -59.64
5667	5667 09/29/2022 04:45:00		18.91 -59.28
5668	5668 09/29/2022 05:00:00		18.89 -59.06
	Ch..3...pH....pH.	datetime	

```

5649      7.94 2022-09-29 00:15:00
5650      7.94 2022-09-29 00:30:00
5651      7.93 2022-09-29 00:45:00
5652      7.93 2022-09-29 01:00:00
5653      7.93 2022-09-29 01:15:00
5654      7.93 2022-09-29 01:30:00
5655      7.92 2022-09-29 01:45:00
5656      7.92 2022-09-29 02:00:00
5657      7.91 2022-09-29 02:15:00
5658      7.91 2022-09-29 02:30:00
5659      7.91 2022-09-29 02:45:00
5660      7.91 2022-09-29 03:00:00
5661      7.91 2022-09-29 03:15:00
5662      7.91 2022-09-29 03:30:00
5663      7.92 2022-09-29 03:45:00
5664      7.92 2022-09-29 04:00:00
5665      7.90 2022-09-29 04:15:00
5666      7.90 2022-09-29 04:30:00
5667      7.89 2022-09-29 04:45:00
5668      7.89 2022-09-29 05:00:00

```

```

df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

```

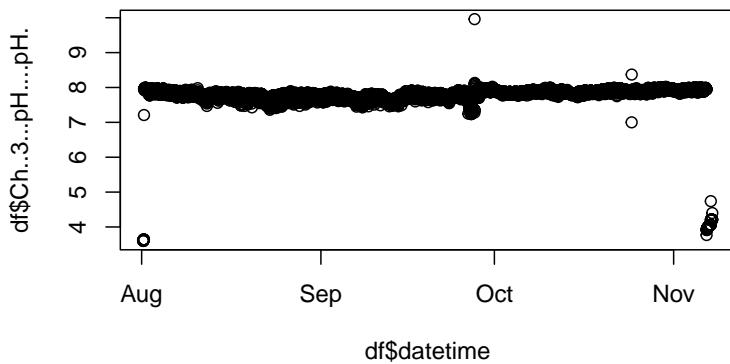
	X. Date.Time..EST.EDT.	Ch..1...Temperature.....C..	Ch..2...Millivolts....mv.
1	08/01/2022 06:00:00	24.53	181.61
2	08/01/2022 06:15:00	24.39	181.61
3	08/01/2022 06:30:00	23.30	181.57
4	08/01/2022 06:45:00	22.51	181.33
5	08/01/2022 07:00:00	21.94	181.11
6	08/01/2022 07:15:00	22.15	180.91
	Ch..3...pH....pH.		
1	3.62		
2	3.62		
3	3.61		
4	3.60		
5	3.60		
6	3.60		

```

names(df) <- c("n", "Date.Time..EST.", "Ch..1...Temperature.....C..", "mV",
              "Ch..3...pH....pH." )

df$datetime <- as.POSIXct(strptime(df$Date.Time..EST., format = "%m/%d/%Y %H:%M:%S")) #Change +
plot(df$datetime, df$Ch..3...pH....pH.)

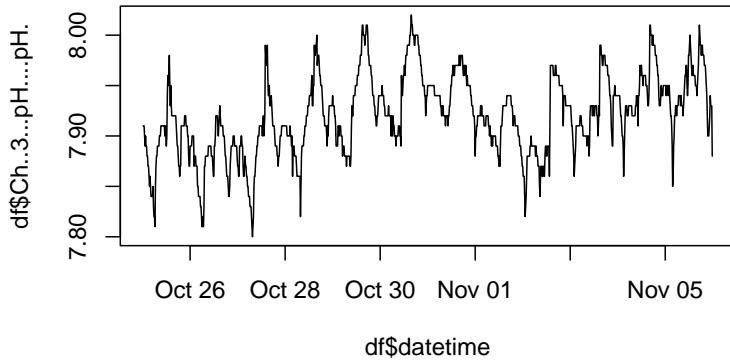
```



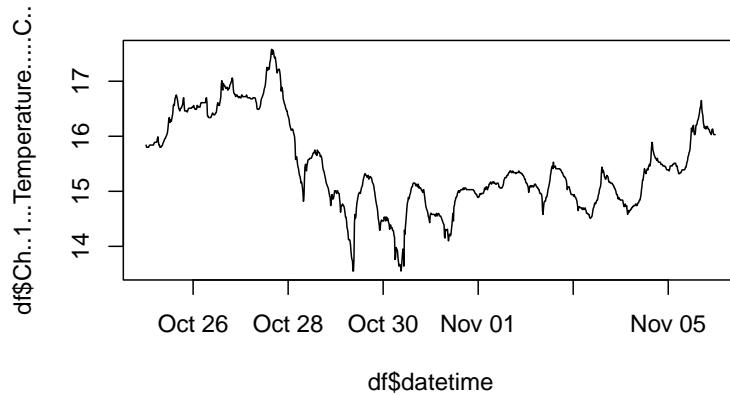
```

#df <- df[df$datetime>"2022-09-29 00:00:00 EDT",]
df <- df[df$datetime>"2022-10-25 00:00:00 EDT",]
df <- df[df$datetime<"2022-11-06 00:00:00 EDT",]
plot(df$datetime, df$Ch..3...pH....pH., type = "l")

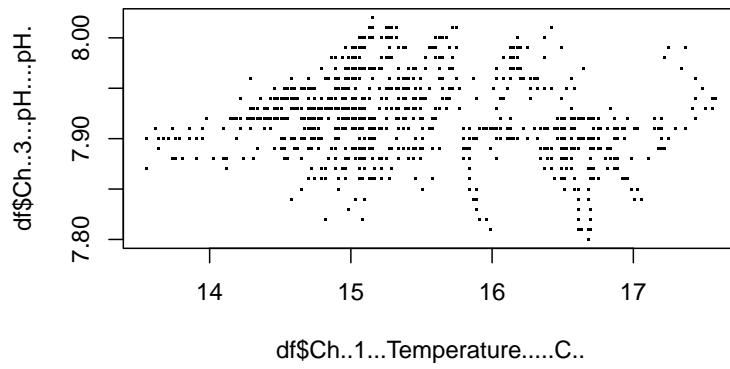
```



```
plot(df$datetime, df$Ch..1...Temperature.....C., type = "l")
```



```
plot(df$Ch..1...Temperature.....C., df$Ch..3...pH....pH., pch = '.')
```



```
#Metadata  
SN <- 076  
tris <- 8.38  
tris_temp <- 16.13
```

```

data_combined_new <- data.frame(
  Site = rep("Eel",times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,length(df$datetime)),
  Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

```

```

setwd(wdPtown)
# November
# This last file seems a bit out of place. However, I can confirm that this is Provincetown because it's the closest to the others in time.

#I need to revisit this because the way I explained it above, the pH's don't match with the previous ones.

open_file <- "Ptown_076 2022-12-05 21_20_00 EST (Data EST).csv"
df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

```

	X.	Date.Time..EST.	Ch..1...Temperature.....C..	Ch..2...Millivolts....mv.
1	1	11/07/2022 15:30:00	17.22	-74.78
2	2	11/07/2022 15:45:00	16.80	-80.85
3	3	11/07/2022 16:00:00	16.51	-83.35
4	4	11/07/2022 16:15:00	16.03	-83.33
5	5	11/07/2022 16:30:00	15.75	-80.56
6	6	11/07/2022 16:45:00	15.25	-70.85
	Ch..3...pH....pH.			
1	8.23			
2	8.34			
3	8.39			
4	8.39			
5	8.34			
6	8.17			

```
names(df) <- c("n","Date.Time..EST.", "Ch..1...Temperature.....C..","mV",
               "Ch..3...pH....pH." )
```

```
head(df)
```

n	Date.Time..EST.	Ch..1...Temperature.....C..	mV	Ch..3...pH....pH.
1	11/07/2022 15:30:00		17.22	-74.78
2	11/07/2022 15:45:00		16.80	-80.85
3	11/07/2022 16:00:00		16.51	-83.35
4	11/07/2022 16:15:00		16.03	-83.33
5	11/07/2022 16:30:00		15.75	-80.56
6	11/07/2022 16:45:00		15.25	-70.85

```
tail(df,80)
```

n	Date.Time..EST.	Ch..1...Temperature.....C..	mV
2637	2637 12/05/2022 02:30:00		17.68 180.02
2638	2638 12/05/2022 02:45:00		17.75 180.05
2639	2639 12/05/2022 03:00:00		17.84 180.08
2640	2640 12/05/2022 03:15:00		17.91 180.10
2641	2641 12/05/2022 03:30:00		17.99 180.13
2642	2642 12/05/2022 03:45:00		18.06 180.15
2643	2643 12/05/2022 04:00:00		18.15 180.18
2644	2644 12/05/2022 04:15:00		18.22 180.21
2645	2645 12/05/2022 04:30:00		18.30 180.22
2646	2646 12/05/2022 04:45:00		18.37 180.26
2647	2647 12/05/2022 05:00:00		18.46 180.29
2648	2648 12/05/2022 05:15:00		18.53 180.32
2649	2649 12/05/2022 05:30:00		18.60 180.33
2650	2650 12/05/2022 05:45:00		18.68 180.36
2651	2651 12/05/2022 06:00:00		18.75 180.40
2652	2652 12/05/2022 06:15:00		18.79 180.41
2653	2653 12/05/2022 06:30:00		18.87 180.41
2654	2654 12/05/2022 06:45:00		18.91 180.43
2655	2655 12/05/2022 07:00:00		18.96 180.44
2656	2656 12/05/2022 07:15:00		19.01 180.44
2657	2657 12/05/2022 07:30:00		19.03 180.46
2658	2658 12/05/2022 07:45:00		19.08 180.46
2659	2659 12/05/2022 08:00:00		19.13 180.46

2660	2660	12/05/2022	08:15:00	19.15	180.46
2661	2661	12/05/2022	08:30:00	19.20	180.46
2662	2662	12/05/2022	08:45:00	19.22	180.47
2663	2663	12/05/2022	09:00:00	19.25	180.47
2664	2664	12/05/2022	09:15:00	19.29	180.47
2665	2665	12/05/2022	09:30:00	19.32	180.47
2666	2666	12/05/2022	09:45:00	19.37	180.49
2667	2667	12/05/2022	10:00:00	19.41	180.49
2668	2668	12/05/2022	10:15:00	19.34	180.47
2669	2669	12/05/2022	10:30:00	19.32	180.46
2670	2670	12/05/2022	10:45:00	19.22	180.40
2671	2671	12/05/2022	11:00:00	18.84	180.29
2672	2672	12/05/2022	11:15:00	18.58	180.26
2673	2673	12/05/2022	11:30:00	18.51	180.22
2674	2674	12/05/2022	11:45:00	18.53	180.16
2675	2675	12/05/2022	12:00:00	18.58	180.11
2676	2676	12/05/2022	12:15:00	18.68	180.10
2677	2677	12/05/2022	12:30:00	18.10	179.46
2678	2678	12/05/2022	12:45:00	17.15	178.94
2679	2679	12/05/2022	13:00:00	16.13	178.41
2680	2680	12/05/2022	13:15:00	15.32	177.91
2681	2681	12/05/2022	13:30:00	14.53	177.49
2682	2682	12/05/2022	13:45:00	14.03	177.11
2683	2683	12/05/2022	14:00:00	14.22	177.07
2684	2684	12/05/2022	14:15:00	14.46	177.07
2685	2685	12/05/2022	14:30:00	14.74	177.08
2686	2686	12/05/2022	14:45:00	14.96	177.08
2687	2687	12/05/2022	15:00:00	15.10	177.10
2688	2688	12/05/2022	15:15:00	15.13	177.08
2689	2689	12/05/2022	15:30:00	15.03	177.05
2690	2690	12/05/2022	15:45:00	14.84	176.99
2691	2691	12/05/2022	16:00:00	14.58	176.91
2692	2692	12/05/2022	16:15:00	14.24	176.79
2693	2693	12/05/2022	16:30:00	13.83	176.63
2694	2694	12/05/2022	16:45:00	13.35	176.44
2695	2695	12/05/2022	17:00:00	12.61	176.13
2696	2696	12/05/2022	17:15:00	11.83	175.86
2697	2697	12/05/2022	17:30:00	11.95	175.77
2698	2698	12/05/2022	17:45:00	12.44	175.76
2699	2699	12/05/2022	18:00:00	12.92	175.82
2700	2700	12/05/2022	18:15:00	13.35	175.88

2701	2701	12/05/2022	18:30:00		13.88	175.97
2702	2702	12/05/2022	18:45:00		14.41	176.11
2703	2703	12/05/2022	19:00:00		14.86	176.24
2704	2704	12/05/2022	19:15:00		15.22	176.40
2705	2705	12/05/2022	19:30:00		15.41	176.52
2706	2706	12/05/2022	19:45:00		15.53	176.63
2707	2707	12/05/2022	20:00:00		15.70	176.74
2708	2708	12/05/2022	20:15:00		15.84	176.83
2709	2709	12/05/2022	20:30:00		15.89	176.91
2710	2710	12/05/2022	20:45:00		15.91	176.93
2711	2711	12/05/2022	21:00:00		15.72	176.94
2712	2712	12/05/2022	21:15:00		14.82	176.63
2713	2713	12/05/2022	21:18:54		NA	NA
2714	2714	12/05/2022	21:18:55		NA	NA
2715	2715	12/05/2022	21:18:56		NA	NA
2716	2716	12/05/2022	21:19:50		NA	NA
Ch..3...pH....pH.						
2637			3.66			
2638			3.66			
2639			3.66			
2640			3.66			
2641			3.66			
2642			3.66			
2643			3.66			
2644			3.66			
2645			3.66			
2646			3.66			
2647			3.66			
2648			3.66			
2649			3.66			
2650			3.67			
2651			3.67			
2652			3.67			
2653			3.67			
2654			3.67			
2655			3.67			
2656			3.67			
2657			3.67			
2658			3.67			
2659			3.67			
2660			3.67			

2661	3.67
2662	3.67
2663	3.67
2664	3.67
2665	3.67
2666	3.67
2667	3.67
2668	3.67
2669	3.67
2670	3.67
2671	3.67
2672	3.67
2673	3.67
2674	3.67
2675	3.67
2676	3.67
2677	3.67
2678	3.67
2679	3.67
2680	3.67
2681	3.67
2682	3.67
2683	3.67
2684	3.68
2685	3.68
2686	3.68
2687	3.68
2688	3.68
2689	3.68
2690	3.68
2691	3.68
2692	3.68
2693	3.68
2694	3.67
2695	3.67
2696	3.67
2697	3.67
2698	3.68
2699	3.68
2700	3.68
2701	3.69

```

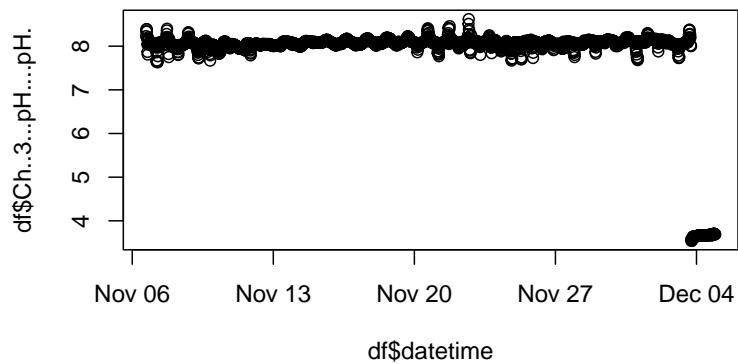
2702           3.69
2703           3.70
2704           3.70
2705           3.70
2706           3.70
2707           3.70
2708           3.70
2709           3.70
2710           3.70
2711           3.69
2712           3.69
2713             NA
2714             NA
2715             NA
2716             NA

```

```

df$datetime <- as.POSIXct(strptime(df$date.Time..EST., format = "%m/%d/%Y %H:%M:%S")) #Switch to EST
plot(df$datetime, df$Ch..3...pH....pH.)

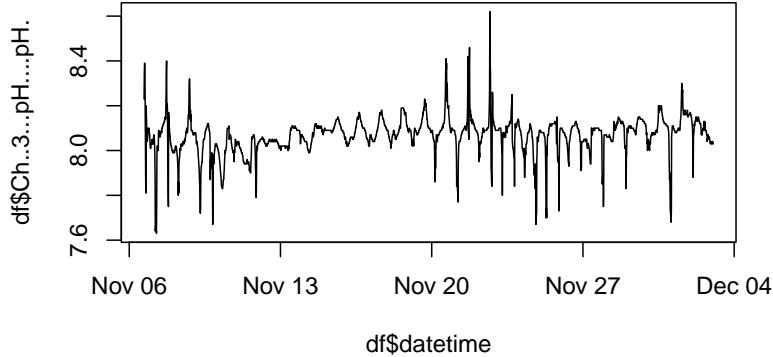
```



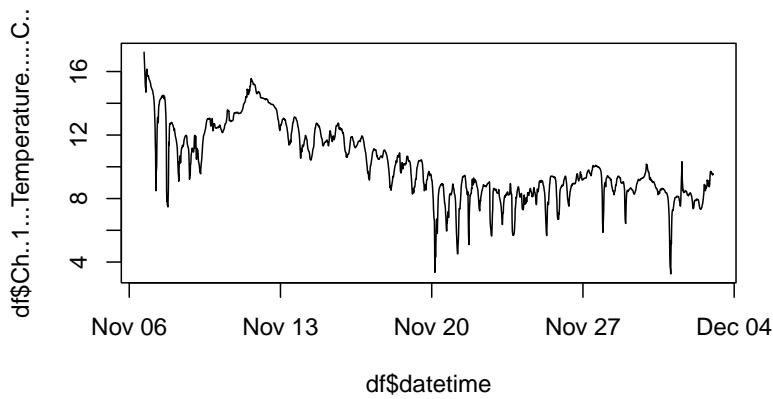
```

df <- df[df$datetime > "2022-11-07 13:00:00 EDT",] #>"2022-11-07 13:00:00 EDT"
df <- df[df$datetime < "2022-12-04 00:00:00 EDT",]
plot(df$datetime, df$Ch..3...pH....pH., type = "l")

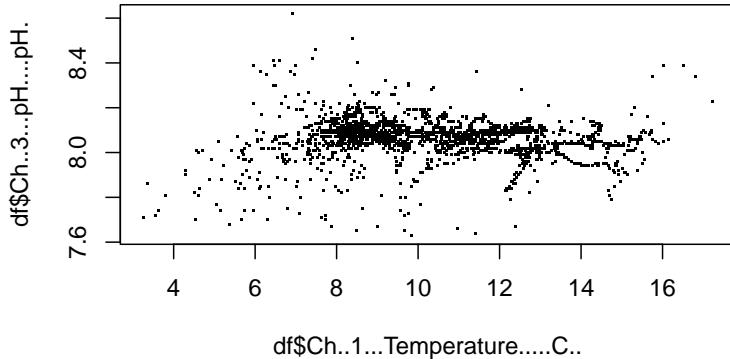
```



```
plot(df$datetime, df$Ch..1....Temperature.....C.., type = "l")
```



```
plot(df$Ch..1....Temperature.....C.., df$Ch..3...pH....pH., pch = '.')
```



```

#Metadata
SN <- 076
tris <- 8.3
tris_temp <- 22.37

data_combined_new <- data.frame(
  Site = rep("Eel",times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,length(df$datetime)),
  Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

setwd(wdEel)
# May
#(open_file <- filenames[3])
open_file <- "21333340_Eel_Pond 2023-05-08 09_10_54 EDT (Data EDT).csv"

df <- read.csv(open_file, stringsAsFactors = F)

df <- df[,c(1:5)]
head(df)

```

```

X.      Date.Time..EDT. Ch..1...Temperature.....C. Ch..2...Millivolts....mv.
1 1 04/19/2023 12:00:00          19.27           161.54
2 2 04/19/2023 12:15:00          19.25           161.52
3 3 04/19/2023 12:30:00          19.37           161.52
4 4 04/19/2023 12:45:00          19.39           161.55
5 5 04/19/2023 13:00:00          19.44           161.57
6 6 04/19/2023 13:15:00          19.46           161.57
Ch..3...pH....pH.
1            3.73
2            3.73
3            3.73
4            3.73
5            3.73
6            3.73

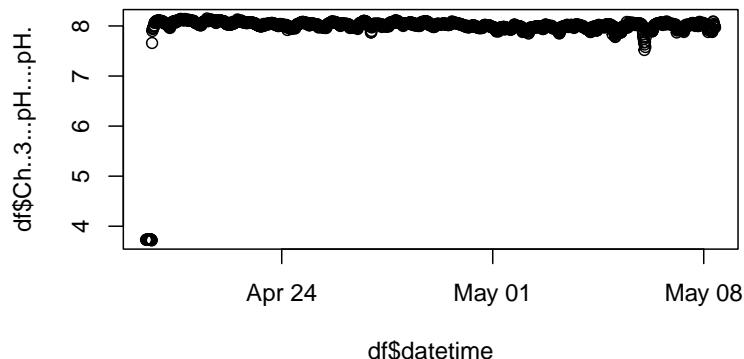
```

```

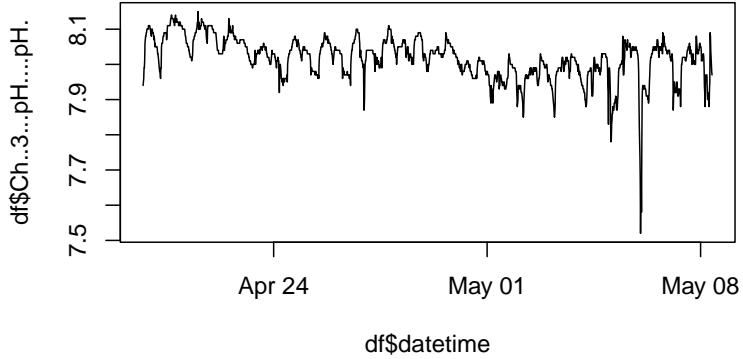
names(df) <- c("n","Date.Time..EDT.", "Ch..1...Temperature.....C.", "mV",
               "Ch..3...pH....pH." )

df$datetime <- as.POSIXct(strptime(df$Date.Time..EDT., format = "%m/%d/%Y %H:%M:%S")) #Change to
plot(df$datetime, df$Ch..3...pH....pH.)

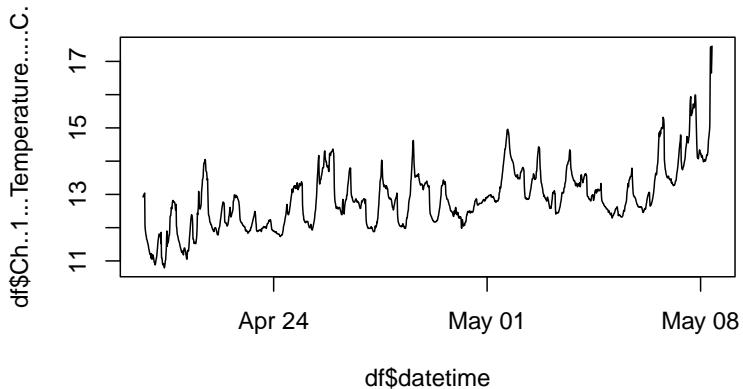
```



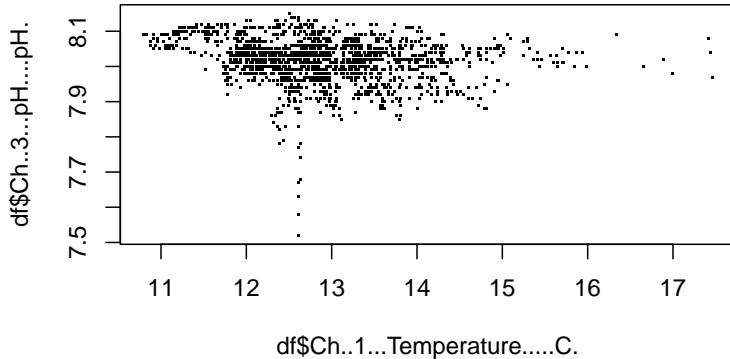
```
df <- df[df$datetime>"2023-04-19 17:00:00 EDT",]  
#df <- df[df$datetime<"2022-12-05 00:00:00 EDT",]  
plot(df$datetime, df$Ch..3...pH....pH., type = "l")
```



```
plot(df$datetime, df$Ch..1...Temperature.....C., type = "l")
```



```
plot(df$Ch..1...Temperature.....C., df$Ch..3...pH....pH., pch = '.')
```



```
#Metadata
SN <- 340
tris <- 8.37
tris_temp <- 18.00

data_combined_new <- data.frame(
  Site = rep("Eel",times = nrow(df)),
  Date = df$datetime,
  Temp = df$Ch..1...Temperature.....C.,
  pH = df$Ch..3...pH....pH.,
  Tris = rep(tris,length(df$datetime)),
  Tris_temp = rep(tris_temp,length(df$datetime)),
  Serial_number = rep(SN,length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)
```

```
setwd(wdEel)
# June
#(open_file <- filenames[3])
open_file <- "Eel_076 2023-06-11 14_39_04 EDT (Data EDT).csv"

df <- read.csv(open_file, stringsAsFactors = F)
```

```
df <- df[,c(1:5)]  
head(df)
```

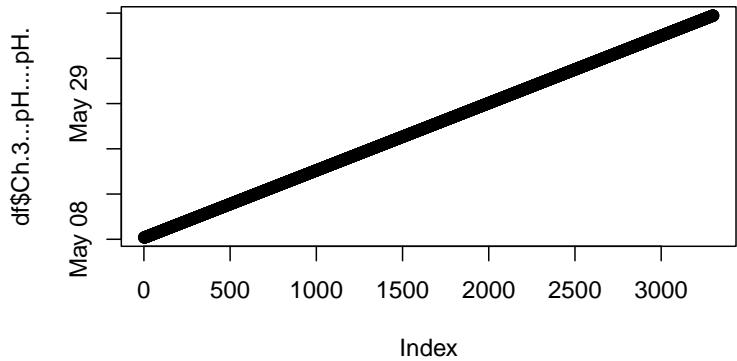
X.	Date.Time..EDT.	Ch.1...Temperature.....C.	Ch.2...Millivolts....mV.
1	1 05/08/2023 06:52:33	NA	NA
2	2 05/08/2023 06:52:35	NA	NA
3	3 05/08/2023 06:55:09	NA	NA
4	4 05/08/2023 06:55:10	NA	NA
5	5 05/08/2023 07:00:00	16.11	-101.69
6	6 05/08/2023 07:15:00	16.70	-89.83
Ch.3...pH....pH.			
1		NA	
2		NA	
3		NA	
4		NA	
5		8.31	
6		8.09	

```
names(df) <- c("n","Date.Time..EDT.", "Ch.1...Temperature.....C.,","mV",  
"Ch.3...pH....pH" )
```

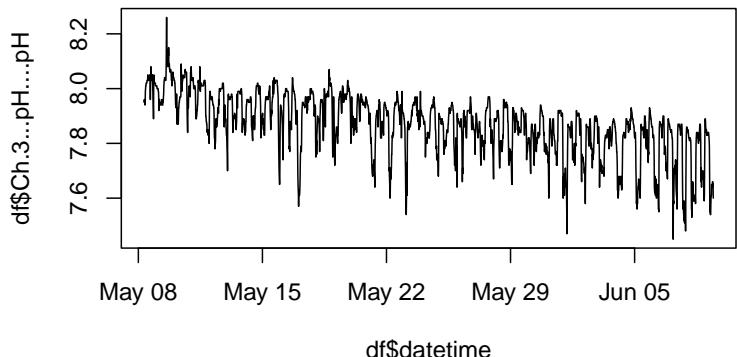
```
tail(df)
```

n	Date.Time..EDT.	Ch.1...Temperature.....C.	mV	Ch.3...pH....pH
3297	3297 06/11/2023 14:00:00	26.89	-13.50	6.74
3298	3298 06/11/2023 14:15:00	26.72	-13.78	6.75
3299	3299 06/11/2023 14:30:00	26.40	-13.89	6.75
3300	3300 06/11/2023 14:38:52	NA	NA	NA
3301	3301 06/11/2023 14:38:53	NA	NA	NA
3302	3302 06/11/2023 14:38:54	NA	NA	NA

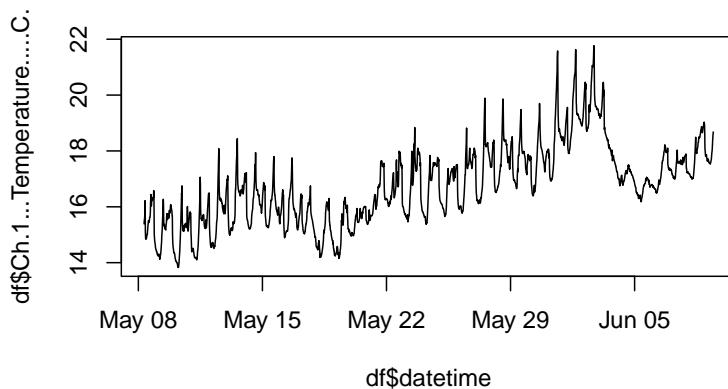
```
df$datetime <- as.POSIXct(strptime(df$date..EDT., format = "%m/%d/%Y %H:%M:%S")) #EDT  
plot(df$datetime, df$Ch.3...pH....pH.)
```



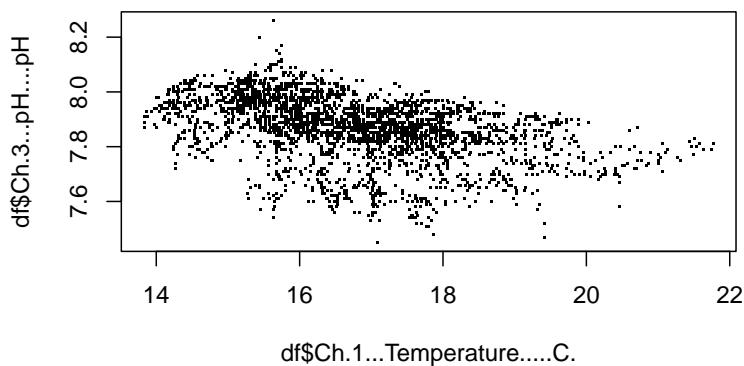
```
df <- df[df$datetime>"2023-05-08 07:30:00 EDT",]  
df <- df[df$datetime<"2023-06-09 10:45:00 EDT",]  
plot(df$datetime, df$Ch.3...pH..., pH, type = "l")
```



```
plot(df$datetime, df$Ch.1...Temperature.....C., type = "l")
```



```
plot(df$Ch.1...Temperature.....C., df$Ch.3...pH....pH, pch = '.')
```



```
#Metadata
SN <- 076
tris <- 8.33
tris_temp <- 17.37

data_combined_new <- data.frame(
  Site = rep("Eel", times = length(df$datetime)),
```

```

Date = df$datetime,
Temp = df$Ch.1...Temperature....C.,
pH = df$Ch.3...pH....pH,
Tris = rep(tris, length(df$datetime)),
Tris_temp = rep(tris_temp, times = length(df$datetime)),
Serial_number = rep(SN, times = length(df$datetime))
)

data_combined <- rbind(data_combined,data_combined_new)

```

## 0.2 Combine

```

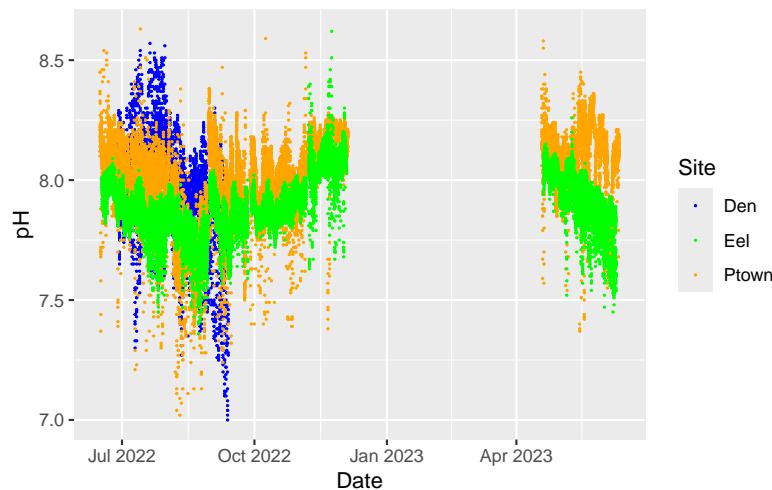
setwd("~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/HOB0pHdata")

write.csv(data_combined, file = "pH data combined.csv")
# rm(list = ls())
# data_combined <- read.csv("pH data combined.csv", stringsAsFactors = FALSE)

g1 <- ggplot(data_combined, aes(x=Date, y=pH, colour = Site))+
  geom_point(cex = .1) +
  scale_color_manual(values=c("blue", "green", "orange"))
g1

```

Warning: Removed 9 rows containing missing values or values outside the scale range  
(`geom\_point()`).



```

g2 <- ggplot(data_combined, aes(x=Date, y=Temp, colour = Site))+  

  geom_point(cex = .1) +  

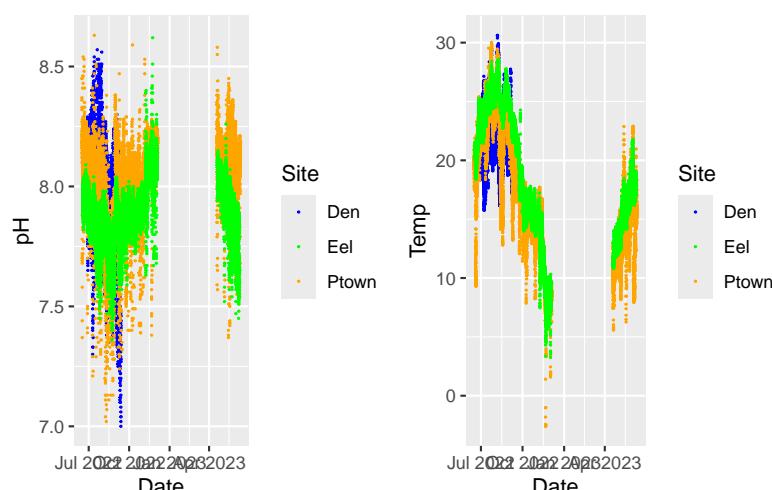
  scale_color_manual(values=c("blue", "green", "orange"))  
  

ggarrange(g1, g2)

```

Warning: Removed 9 rows containing missing values or values outside the scale range  
(`geom\_point()`).

Removed 9 rows containing missing values or values outside the scale range  
(`geom\_point()`).



```
min(data_combined$Date)
```

```
[1] "2022-06-15 18:09:46 EDT"
```

### 0.3 Calculate tris buffer offset and SW pH from NBS scale

```
tris_at_temp <- function(Tris_temp) {  
  y=(11911.08-18.2499*35-0.039336*35*35)/(Tris_temp+273.15)+(-366.27059+0.53993607*35+0.000163)  
  return(y)  
}  
  
test_dat <- data_combined[1:5,  
data_combined$offset <- data_combined$Tris-tris_at_temp(data_combined$Tris_temp)  
  
plot(data_combined$offset, na.rm = TRUE)
```

```
Warning in plot.window(...): "na.rm" is not a graphical parameter
```

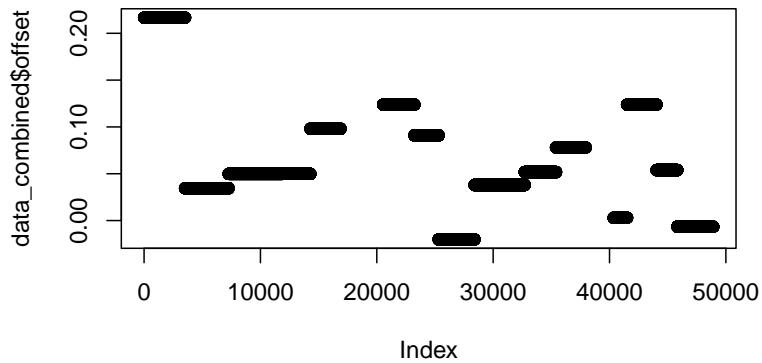
```
Warning in plot.xy(xy, type, ...): "na.rm" is not a graphical parameter
```

```
Warning in axis(side = side, at = at, labels = labels, ...): "na.rm" is not a graphical parameter
```

```
Warning in axis(side = side, at = at, labels = labels, ...): "na.rm" is not a graphical parameter
```

```
Warning in box(...): "na.rm" is not a graphical parameter
```

```
Warning in title(...): "na.rm" is not a graphical parameter
```



```
data_combined[is.na(data_combined$offset),]
```

Site		Date	Temp	pH	Tris	Tris_temp	Serial_number	offset
16888	Ptown	2022-09-28	00:03:02	18.20	8.04	NA	NA	340
16889	Ptown	2022-09-28	00:18:02	18.22	8.04	NA	NA	340
16890	Ptown	2022-09-28	00:33:02	18.22	8.02	NA	NA	340
16891	Ptown	2022-09-28	00:48:02	18.20	8.02	NA	NA	340
16892	Ptown	2022-09-28	01:03:02	18.18	8.02	NA	NA	340
16893	Ptown	2022-09-28	01:18:02	18.15	8.02	NA	NA	340
16894	Ptown	2022-09-28	01:33:02	18.15	8.00	NA	NA	340
16895	Ptown	2022-09-28	01:48:02	18.18	8.03	NA	NA	340
16896	Ptown	2022-09-28	02:03:02	18.18	8.02	NA	NA	340
16897	Ptown	2022-09-28	02:18:02	18.18	8.01	NA	NA	340
16898	Ptown	2022-09-28	02:33:02	18.15	8.00	NA	NA	340
16899	Ptown	2022-09-28	02:48:02	18.08	8.04	NA	NA	340
16900	Ptown	2022-09-28	03:03:02	18.06	8.04	NA	NA	340
16901	Ptown	2022-09-28	03:18:02	18.03	8.04	NA	NA	340
16902	Ptown	2022-09-28	03:33:02	18.01	8.02	NA	NA	340
16903	Ptown	2022-09-28	03:48:02	17.99	8.03	NA	NA	340
16904	Ptown	2022-09-28	04:03:02	17.84	8.01	NA	NA	340
16905	Ptown	2022-09-28	04:18:02	17.58	7.96	NA	NA	340
16906	Ptown	2022-09-28	04:33:02	17.42	7.93	NA	NA	340
16907	Ptown	2022-09-28	04:48:02	17.34	7.94	NA	NA	340
16908	Ptown	2022-09-28	05:03:02	17.32	7.95	NA	NA	340
16909	Ptown	2022-09-28	05:18:02	17.30	7.95	NA	NA	340

16910	Ptown	2022-09-28	05:33:02	17.27	7.98	NA	NA	340	NA
16911	Ptown	2022-09-28	05:48:02	17.18	7.97	NA	NA	340	NA
16912	Ptown	2022-09-28	06:03:02	16.87	7.85	NA	NA	340	NA
16913	Ptown	2022-09-28	06:18:02	16.58	7.78	NA	NA	340	NA
16914	Ptown	2022-09-28	06:33:02	16.30	7.68	NA	NA	340	NA
16915	Ptown	2022-09-28	06:48:02	15.99	7.46	NA	NA	340	NA
16916	Ptown	2022-09-28	07:03:02	15.84	7.56	NA	NA	340	NA
16917	Ptown	2022-09-28	07:18:02	16.08	7.63	NA	NA	340	NA
16918	Ptown	2022-09-28	07:33:02	16.08	7.70	NA	NA	340	NA
16919	Ptown	2022-09-28	07:48:02	15.70	7.67	NA	NA	340	NA
16920	Ptown	2022-09-28	08:03:02	15.60	7.78	NA	NA	340	NA
16921	Ptown	2022-09-28	08:18:02	16.03	7.82	NA	NA	340	NA
16922	Ptown	2022-09-28	08:33:02	16.42	7.94	NA	NA	340	NA
16923	Ptown	2022-09-28	08:48:02	16.53	7.85	NA	NA	340	NA
16924	Ptown	2022-09-28	09:03:02	16.82	7.97	NA	NA	340	NA
16925	Ptown	2022-09-28	09:18:02	17.06	7.99	NA	NA	340	NA
16926	Ptown	2022-09-28	09:33:02	17.20	7.99	NA	NA	340	NA
16927	Ptown	2022-09-28	09:48:02	17.32	7.98	NA	NA	340	NA
16928	Ptown	2022-09-28	10:03:02	17.44	7.97	NA	NA	340	NA
16929	Ptown	2022-09-28	10:18:02	17.53	7.96	NA	NA	340	NA
16930	Ptown	2022-09-28	10:33:02	17.63	7.97	NA	NA	340	NA
16931	Ptown	2022-09-28	10:48:02	17.68	7.98	NA	NA	340	NA
16932	Ptown	2022-09-28	11:03:02	17.70	7.97	NA	NA	340	NA
16933	Ptown	2022-09-28	11:18:02	17.82	7.96	NA	NA	340	NA
16934	Ptown	2022-09-28	11:33:02	17.94	7.99	NA	NA	340	NA
16935	Ptown	2022-09-28	11:48:02	18.01	7.95	NA	NA	340	NA
16936	Ptown	2022-09-28	12:03:02	18.06	7.96	NA	NA	340	NA
16937	Ptown	2022-09-28	12:18:02	18.10	7.93	NA	NA	340	NA
16938	Ptown	2022-09-28	12:33:02	18.15	7.94	NA	NA	340	NA
16939	Ptown	2022-09-28	12:48:02	18.22	7.95	NA	NA	340	NA
16940	Ptown	2022-09-28	13:03:02	18.27	7.95	NA	NA	340	NA
16941	Ptown	2022-09-28	13:18:02	18.34	7.98	NA	NA	340	NA
16942	Ptown	2022-09-28	13:33:02	18.39	7.93	NA	NA	340	NA
16943	Ptown	2022-09-28	13:48:02	18.37	7.95	NA	NA	340	NA
16944	Ptown	2022-09-28	14:03:02	18.37	7.95	NA	NA	340	NA
16945	Ptown	2022-09-28	14:18:02	18.46	7.92	NA	NA	340	NA
16946	Ptown	2022-09-28	14:33:02	18.51	7.93	NA	NA	340	NA
16947	Ptown	2022-09-28	14:48:02	18.56	7.97	NA	NA	340	NA
16948	Ptown	2022-09-28	15:03:02	18.58	7.96	NA	NA	340	NA
16949	Ptown	2022-09-28	15:18:02	18.63	7.98	NA	NA	340	NA
16950	Ptown	2022-09-28	15:33:02	18.65	7.97	NA	NA	340	NA

16951	Ptown	2022-09-28	15:48:02	18.68	7.96	NA	NA	340	NA
16952	Ptown	2022-09-28	16:03:02	18.70	7.97	NA	NA	340	NA
16953	Ptown	2022-09-28	16:18:02	18.75	8.00	NA	NA	340	NA
16954	Ptown	2022-09-28	16:33:02	18.79	8.02	NA	NA	340	NA
16955	Ptown	2022-09-28	16:48:02	18.82	8.07	NA	NA	340	NA
16956	Ptown	2022-09-28	17:03:02	18.84	8.11	NA	NA	340	NA
16957	Ptown	2022-09-28	17:18:02	18.84	8.12	NA	NA	340	NA
16958	Ptown	2022-09-28	17:33:02	18.82	8.14	NA	NA	340	NA
16959	Ptown	2022-09-28	17:48:02	18.79	8.15	NA	NA	340	NA
16960	Ptown	2022-09-28	18:03:02	18.72	8.15	NA	NA	340	NA
16961	Ptown	2022-09-28	18:18:02	18.63	8.18	NA	NA	340	NA
16962	Ptown	2022-09-28	18:33:02	18.53	8.18	NA	NA	340	NA
16963	Ptown	2022-09-28	18:48:02	18.44	8.18	NA	NA	340	NA
16964	Ptown	2022-09-28	19:03:02	18.22	8.17	NA	NA	340	NA
16965	Ptown	2022-09-28	19:18:02	17.39	8.11	NA	NA	340	NA
16966	Ptown	2022-09-28	19:33:02	16.37	8.01	NA	NA	340	NA
16967	Ptown	2022-09-28	19:48:02	16.01	8.00	NA	NA	340	NA
16968	Ptown	2022-09-28	20:03:02	16.03	7.99	NA	NA	340	NA
16969	Ptown	2022-09-28	20:18:02	16.27	7.99	NA	NA	340	NA
16970	Ptown	2022-09-28	20:33:02	16.58	7.40	NA	NA	340	NA
16971	Ptown	2022-09-28	20:48:02	16.84	7.85	NA	NA	340	NA
16972	Ptown	2022-09-28	21:03:02	17.53	8.07	NA	NA	340	NA
16973	Ptown	2022-09-28	21:18:02	17.63	8.08	NA	NA	340	NA
16974	Ptown	2022-09-28	21:33:02	17.94	8.12	NA	NA	340	NA
16975	Ptown	2022-09-28	21:48:02	18.10	8.16	NA	NA	340	NA
16976	Ptown	2022-09-28	22:03:02	18.01	8.15	NA	NA	340	NA
16977	Ptown	2022-09-28	22:18:02	18.06	8.14	NA	NA	340	NA
16978	Ptown	2022-09-28	22:33:02	18.18	8.13	NA	NA	340	NA
16979	Ptown	2022-09-28	22:48:02	18.32	8.12	NA	NA	340	NA
16980	Ptown	2022-09-28	23:03:02	18.30	8.11	NA	NA	340	NA
16981	Ptown	2022-09-28	23:18:02	18.32	8.10	NA	NA	340	NA
16982	Ptown	2022-09-28	23:33:02	18.37	8.11	NA	NA	340	NA
16983	Ptown	2022-09-28	23:48:02	18.39	8.09	NA	NA	340	NA
16984	Ptown	2022-09-29	00:03:02	18.39	8.07	NA	NA	340	NA
16985	Ptown	2022-09-29	00:18:02	18.37	8.04	NA	NA	340	NA
16986	Ptown	2022-09-29	00:33:02	18.34	8.02	NA	NA	340	NA
16987	Ptown	2022-09-29	00:48:02	18.32	8.00	NA	NA	340	NA
16988	Ptown	2022-09-29	01:03:02	18.34	7.98	NA	NA	340	NA
16989	Ptown	2022-09-29	01:18:02	18.34	7.98	NA	NA	340	NA
16990	Ptown	2022-09-29	01:33:02	18.34	7.97	NA	NA	340	NA
16991	Ptown	2022-09-29	01:48:02	18.34	7.97	NA	NA	340	NA

16992	Ptown	2022-09-29	02:03:02	18.34	7.98	NA	NA	340	NA
16993	Ptown	2022-09-29	02:18:02	18.32	7.96	NA	NA	340	NA
16994	Ptown	2022-09-29	02:33:02	18.30	7.97	NA	NA	340	NA
16995	Ptown	2022-09-29	02:48:02	18.25	7.96	NA	NA	340	NA
16996	Ptown	2022-09-29	03:03:02	18.25	7.96	NA	NA	340	NA
16997	Ptown	2022-09-29	03:18:02	18.22	7.98	NA	NA	340	NA
16998	Ptown	2022-09-29	03:33:02	18.15	7.96	NA	NA	340	NA
16999	Ptown	2022-09-29	03:48:02	18.06	7.99	NA	NA	340	NA
17000	Ptown	2022-09-29	04:03:02	18.06	7.98	NA	NA	340	NA
17001	Ptown	2022-09-29	04:18:02	18.06	8.00	NA	NA	340	NA
17002	Ptown	2022-09-29	04:33:02	18.03	8.00	NA	NA	340	NA
17003	Ptown	2022-09-29	04:48:02	17.96	7.98	NA	NA	340	NA
17004	Ptown	2022-09-29	05:03:02	17.91	7.99	NA	NA	340	NA
17005	Ptown	2022-09-29	05:18:02	17.87	7.99	NA	NA	340	NA
17006	Ptown	2022-09-29	05:33:02	17.80	7.98	NA	NA	340	NA
17007	Ptown	2022-09-29	05:48:02	17.75	7.98	NA	NA	340	NA
17008	Ptown	2022-09-29	06:03:02	17.63	7.98	NA	NA	340	NA
17009	Ptown	2022-09-29	06:18:02	17.56	7.97	NA	NA	340	NA
17010	Ptown	2022-09-29	06:33:02	17.42	7.96	NA	NA	340	NA
17011	Ptown	2022-09-29	06:48:02	17.30	7.94	NA	NA	340	NA
17012	Ptown	2022-09-29	07:03:02	17.06	7.88	NA	NA	340	NA
17013	Ptown	2022-09-29	07:18:02	16.44	7.63	NA	NA	340	NA
17014	Ptown	2022-09-29	07:33:02	16.15	7.63	NA	NA	340	NA
17015	Ptown	2022-09-29	07:48:02	16.34	7.75	NA	NA	340	NA
17016	Ptown	2022-09-29	08:03:02	15.29	7.83	NA	NA	340	NA
17017	Ptown	2022-09-29	08:18:02	15.10	7.87	NA	NA	340	NA
17018	Ptown	2022-09-29	08:33:02	16.27	8.05	NA	NA	340	NA
17019	Ptown	2022-09-29	08:48:02	16.27	8.07	NA	NA	340	NA
17020	Ptown	2022-09-29	09:03:02	16.49	8.01	NA	NA	340	NA
17021	Ptown	2022-09-29	09:18:02	16.87	7.96	NA	NA	340	NA
17022	Ptown	2022-09-29	09:33:02	16.99	8.03	NA	NA	340	NA
17023	Ptown	2022-09-29	09:48:02	16.92	7.96	NA	NA	340	NA
17024	Ptown	2022-09-29	10:03:02	17.39	8.05	NA	NA	340	NA
17025	Ptown	2022-09-29	10:18:02	17.70	8.06	NA	NA	340	NA
17026	Ptown	2022-09-29	10:33:02	17.72	8.01	NA	NA	340	NA
17027	Ptown	2022-09-29	10:48:02	17.84	8.00	NA	NA	340	NA
17028	Ptown	2022-09-29	11:03:02	17.96	7.99	NA	NA	340	NA
17029	Ptown	2022-09-29	11:18:02	18.03	7.97	NA	NA	340	NA
17030	Ptown	2022-09-29	11:33:02	18.10	7.97	NA	NA	340	NA
17031	Ptown	2022-09-29	11:48:02	18.13	7.97	NA	NA	340	NA
17032	Ptown	2022-09-29	12:03:02	18.18	7.97	NA	NA	340	NA

17033	Ptown	2022-09-29	12:18:02	18.25	7.97	NA	NA	340	NA
17034	Ptown	2022-09-29	12:33:02	18.30	7.98	NA	NA	340	NA
17035	Ptown	2022-09-29	12:48:02	18.32	7.98	NA	NA	340	NA
17036	Ptown	2022-09-29	13:03:02	18.34	7.98	NA	NA	340	NA
17037	Ptown	2022-09-29	13:18:02	18.37	7.98	NA	NA	340	NA
17038	Ptown	2022-09-29	13:33:02	18.39	7.96	NA	NA	340	NA
17039	Ptown	2022-09-29	13:48:02	18.41	7.99	NA	NA	340	NA
17040	Ptown	2022-09-29	14:03:02	18.44	7.99	NA	NA	340	NA
17041	Ptown	2022-09-29	14:18:02	18.44	7.99	NA	NA	340	NA
17042	Ptown	2022-09-29	14:33:02	18.46	7.98	NA	NA	340	NA
17043	Ptown	2022-09-29	14:48:02	18.49	7.99	NA	NA	340	NA
17044	Ptown	2022-09-29	15:03:02	18.51	8.02	NA	NA	340	NA
17045	Ptown	2022-09-29	15:18:02	18.51	8.01	NA	NA	340	NA
17046	Ptown	2022-09-29	15:33:02	18.51	8.00	NA	NA	340	NA
17047	Ptown	2022-09-29	15:48:02	18.51	8.02	NA	NA	340	NA
17048	Ptown	2022-09-29	16:03:02	18.53	8.02	NA	NA	340	NA
17049	Ptown	2022-09-29	16:18:02	18.56	8.02	NA	NA	340	NA
17050	Ptown	2022-09-29	16:33:02	18.53	8.00	NA	NA	340	NA
17051	Ptown	2022-09-29	16:48:02	18.53	8.02	NA	NA	340	NA
17052	Ptown	2022-09-29	17:03:02	18.53	8.04	NA	NA	340	NA
17053	Ptown	2022-09-29	17:18:02	18.51	8.03	NA	NA	340	NA
17054	Ptown	2022-09-29	17:33:02	18.49	8.04	NA	NA	340	NA
17055	Ptown	2022-09-29	17:48:02	18.46	8.08	NA	NA	340	NA
17056	Ptown	2022-09-29	18:03:02	18.44	8.07	NA	NA	340	NA
17057	Ptown	2022-09-29	18:18:02	18.41	8.07	NA	NA	340	NA
17058	Ptown	2022-09-29	18:33:02	18.39	8.08	NA	NA	340	NA
17059	Ptown	2022-09-29	18:48:02	18.34	8.08	NA	NA	340	NA
17060	Ptown	2022-09-29	19:03:02	18.25	8.09	NA	NA	340	NA
17061	Ptown	2022-09-29	19:18:02	18.10	8.09	NA	NA	340	NA
17062	Ptown	2022-09-29	19:33:02	17.91	8.06	NA	NA	340	NA
17063	Ptown	2022-09-29	19:48:02	16.61	7.97	NA	NA	340	NA
17064	Ptown	2022-09-29	20:03:02	14.12	7.92	NA	NA	340	NA
17065	Ptown	2022-09-29	20:18:02	13.28	7.93	NA	NA	340	NA
17066	Ptown	2022-09-29	20:33:02	13.06	7.91	NA	NA	340	NA
17067	Ptown	2022-09-29	20:48:02	12.90	7.90	NA	NA	340	NA
17068	Ptown	2022-09-29	21:03:02	12.75	7.89	NA	NA	340	NA
17069	Ptown	2022-09-29	21:18:02	12.77	7.89	NA	NA	340	NA
17070	Ptown	2022-09-29	21:33:02	12.85	7.88	NA	NA	340	NA
17071	Ptown	2022-09-29	21:48:02	14.74	7.48	NA	NA	340	NA
17072	Ptown	2022-09-29	22:03:02	15.75	7.80	NA	NA	340	NA
17073	Ptown	2022-09-29	22:18:02	16.75	7.97	NA	NA	340	NA

17074	Ptown	2022-09-29	22:33:02	16.94	7.99	NA	NA	340	NA
17075	Ptown	2022-09-29	22:48:02	16.99	7.97	NA	NA	340	NA
17076	Ptown	2022-09-29	23:03:02	16.92	7.97	NA	NA	340	NA
17077	Ptown	2022-09-29	23:18:02	17.20	7.99	NA	NA	340	NA
17078	Ptown	2022-09-29	23:33:02	17.42	7.98	NA	NA	340	NA
17079	Ptown	2022-09-29	23:48:02	17.53	7.97	NA	NA	340	NA
17080	Ptown	2022-09-30	00:03:02	17.61	7.96	NA	NA	340	NA
17081	Ptown	2022-09-30	00:18:02	17.61	7.96	NA	NA	340	NA
17082	Ptown	2022-09-30	00:33:02	17.61	7.96	NA	NA	340	NA
17083	Ptown	2022-09-30	00:48:02	17.63	7.94	NA	NA	340	NA
17084	Ptown	2022-09-30	01:03:02	17.63	7.95	NA	NA	340	NA
17085	Ptown	2022-09-30	01:18:02	17.63	7.92	NA	NA	340	NA
17086	Ptown	2022-09-30	01:33:02	17.65	7.94	NA	NA	340	NA
17087	Ptown	2022-09-30	01:48:02	17.68	7.93	NA	NA	340	NA
17088	Ptown	2022-09-30	02:03:02	17.65	7.96	NA	NA	340	NA
17089	Ptown	2022-09-30	02:18:02	17.61	7.96	NA	NA	340	NA
17090	Ptown	2022-09-30	02:33:02	17.58	7.93	NA	NA	340	NA
17091	Ptown	2022-09-30	02:48:02	17.56	7.93	NA	NA	340	NA
17092	Ptown	2022-09-30	03:03:02	17.53	7.95	NA	NA	340	NA
17093	Ptown	2022-09-30	03:18:02	17.51	7.97	NA	NA	340	NA
17094	Ptown	2022-09-30	03:33:02	17.39	7.96	NA	NA	340	NA
17095	Ptown	2022-09-30	03:48:02	17.27	7.97	NA	NA	340	NA
17096	Ptown	2022-09-30	04:03:02	17.20	7.93	NA	NA	340	NA
17097	Ptown	2022-09-30	04:18:02	17.01	7.88	NA	NA	340	NA
17098	Ptown	2022-09-30	04:33:02	16.80	7.88	NA	NA	340	NA
17099	Ptown	2022-09-30	04:48:02	16.77	7.86	NA	NA	340	NA
17100	Ptown	2022-09-30	05:03:02	17.06	7.93	NA	NA	340	NA
17101	Ptown	2022-09-30	05:18:02	17.01	7.95	NA	NA	340	NA
17102	Ptown	2022-09-30	05:33:02	16.89	7.95	NA	NA	340	NA
17103	Ptown	2022-09-30	05:48:02	16.77	7.93	NA	NA	340	NA
17104	Ptown	2022-09-30	06:03:02	16.53	7.95	NA	NA	340	NA
17105	Ptown	2022-09-30	06:18:02	16.49	7.96	NA	NA	340	NA
17106	Ptown	2022-09-30	06:33:02	16.34	7.98	NA	NA	340	NA
17107	Ptown	2022-09-30	06:48:02	16.22	7.98	NA	NA	340	NA
17108	Ptown	2022-09-30	07:03:02	16.20	7.98	NA	NA	340	NA
17109	Ptown	2022-09-30	07:18:02	16.03	7.98	NA	NA	340	NA
17110	Ptown	2022-09-30	07:33:02	15.91	7.95	NA	NA	340	NA
17111	Ptown	2022-09-30	07:48:02	15.84	7.95	NA	NA	340	NA
17112	Ptown	2022-09-30	08:03:02	15.82	7.94	NA	NA	340	NA
17113	Ptown	2022-09-30	08:18:02	15.72	7.95	NA	NA	340	NA
17114	Ptown	2022-09-30	08:33:02	15.63	7.98	NA	NA	340	NA

17115	Ptown	2022-09-30	08:48:02	15.70	8.00	NA	NA	340	NA
17116	Ptown	2022-09-30	09:03:02	15.77	8.03	NA	NA	340	NA
17117	Ptown	2022-09-30	09:18:02	16.03	8.18	NA	NA	340	NA
17118	Ptown	2022-09-30	09:33:02	16.25	8.08	NA	NA	340	NA
17119	Ptown	2022-09-30	09:48:02	16.39	8.11	NA	NA	340	NA
17120	Ptown	2022-09-30	10:03:02	16.44	8.11	NA	NA	340	NA
17121	Ptown	2022-09-30	10:18:02	16.58	8.09	NA	NA	340	NA
17122	Ptown	2022-09-30	10:33:02	16.65	8.09	NA	NA	340	NA
17123	Ptown	2022-09-30	10:48:02	16.84	8.11	NA	NA	340	NA
17124	Ptown	2022-09-30	11:03:02	16.99	8.12	NA	NA	340	NA
17125	Ptown	2022-09-30	11:18:02	16.99	8.13	NA	NA	340	NA
17126	Ptown	2022-09-30	11:33:02	17.11	8.12	NA	NA	340	NA
17127	Ptown	2022-09-30	11:48:02	17.18	8.11	NA	NA	340	NA
17128	Ptown	2022-09-30	12:03:02	17.27	8.11	NA	NA	340	NA
17129	Ptown	2022-09-30	12:18:02	17.37	8.07	NA	NA	340	NA
17130	Ptown	2022-09-30	12:33:02	17.44	8.12	NA	NA	340	NA
17131	Ptown	2022-09-30	12:48:02	17.53	8.10	NA	NA	340	NA
17132	Ptown	2022-09-30	13:03:02	17.61	8.12	NA	NA	340	NA
17133	Ptown	2022-09-30	13:18:02	17.63	8.13	NA	NA	340	NA
17134	Ptown	2022-09-30	13:33:02	17.68	8.12	NA	NA	340	NA
17135	Ptown	2022-09-30	13:48:02	17.70	8.12	NA	NA	340	NA
17136	Ptown	2022-09-30	14:03:02	17.72	8.10	NA	NA	340	NA
17137	Ptown	2022-09-30	14:18:02	17.75	8.08	NA	NA	340	NA
17138	Ptown	2022-09-30	14:33:02	17.70	8.09	NA	NA	340	NA
17139	Ptown	2022-09-30	14:48:02	17.61	8.13	NA	NA	340	NA
17140	Ptown	2022-09-30	15:03:02	17.58	8.11	NA	NA	340	NA
17141	Ptown	2022-09-30	15:18:02	17.61	8.14	NA	NA	340	NA
17142	Ptown	2022-09-30	15:33:02	17.65	8.13	NA	NA	340	NA
17143	Ptown	2022-09-30	15:48:02	17.70	8.15	NA	NA	340	NA
17144	Ptown	2022-09-30	16:03:02	17.70	8.13	NA	NA	340	NA
17145	Ptown	2022-09-30	16:18:02	17.70	8.13	NA	NA	340	NA
17146	Ptown	2022-09-30	16:33:02	17.68	8.13	NA	NA	340	NA
17147	Ptown	2022-09-30	16:48:02	17.68	8.14	NA	NA	340	NA
17148	Ptown	2022-09-30	17:03:02	17.68	8.14	NA	NA	340	NA
17149	Ptown	2022-09-30	17:18:02	17.68	8.13	NA	NA	340	NA
17150	Ptown	2022-09-30	17:33:02	17.68	8.12	NA	NA	340	NA
17151	Ptown	2022-09-30	17:48:02	17.65	8.16	NA	NA	340	NA
17152	Ptown	2022-09-30	18:03:02	17.65	8.15	NA	NA	340	NA
17153	Ptown	2022-09-30	18:18:02	17.63	8.15	NA	NA	340	NA
17154	Ptown	2022-09-30	18:33:02	17.63	8.15	NA	NA	340	NA
17155	Ptown	2022-09-30	18:48:02	17.61	8.14	NA	NA	340	NA

17156	Ptown	2022-09-30	19:03:02	17.58	8.15	NA	NA	340	NA
17157	Ptown	2022-09-30	19:18:02	17.51	8.16	NA	NA	340	NA
17158	Ptown	2022-09-30	19:33:02	17.44	8.16	NA	NA	340	NA
17159	Ptown	2022-09-30	19:48:02	17.39	8.17	NA	NA	340	NA
17160	Ptown	2022-09-30	20:03:02	17.30	8.15	NA	NA	340	NA
17161	Ptown	2022-09-30	20:18:02	17.15	8.12	NA	NA	340	NA
17162	Ptown	2022-09-30	20:33:02	16.92	8.07	NA	NA	340	NA
17163	Ptown	2022-09-30	20:48:02	14.43	7.94	NA	NA	340	NA
17164	Ptown	2022-09-30	21:03:02	12.77	7.95	NA	NA	340	NA
17165	Ptown	2022-09-30	21:18:02	12.00	7.96	NA	NA	340	NA
17166	Ptown	2022-09-30	21:33:02	11.66	7.96	NA	NA	340	NA
17167	Ptown	2022-09-30	21:48:02	11.49	7.95	NA	NA	340	NA
17168	Ptown	2022-09-30	22:03:02	11.42	7.95	NA	NA	340	NA
17169	Ptown	2022-09-30	22:18:02	13.47	7.40	NA	NA	340	NA
17170	Ptown	2022-09-30	22:33:02	15.06	7.90	NA	NA	340	NA
17171	Ptown	2022-09-30	22:48:02	15.89	8.02	NA	NA	340	NA
17172	Ptown	2022-09-30	23:03:02	16.34	8.08	NA	NA	340	NA
17173	Ptown	2022-09-30	23:18:02	16.51	8.09	NA	NA	340	NA
17174	Ptown	2022-09-30	23:33:02	16.68	8.11	NA	NA	340	NA
17175	Ptown	2022-09-30	23:48:02	16.65	8.10	NA	NA	340	NA
17176	Ptown	2022-10-01	00:03:02	16.84	8.12	NA	NA	340	NA
17177	Ptown	2022-10-01	00:18:02	16.87	8.12	NA	NA	340	NA
17178	Ptown	2022-10-01	00:33:02	16.89	8.12	NA	NA	340	NA
17179	Ptown	2022-10-01	00:48:02	16.89	8.10	NA	NA	340	NA
17180	Ptown	2022-10-01	01:03:02	16.92	8.10	NA	NA	340	NA
17181	Ptown	2022-10-01	01:18:02	16.92	8.09	NA	NA	340	NA
17182	Ptown	2022-10-01	01:33:02	16.92	8.08	NA	NA	340	NA
17183	Ptown	2022-10-01	01:48:02	16.94	8.06	NA	NA	340	NA
17184	Ptown	2022-10-01	02:03:02	16.96	8.10	NA	NA	340	NA
17185	Ptown	2022-10-01	02:18:02	16.99	8.09	NA	NA	340	NA
17186	Ptown	2022-10-01	02:33:02	16.99	8.06	NA	NA	340	NA
17187	Ptown	2022-10-01	02:48:02	16.96	8.04	NA	NA	340	NA
17188	Ptown	2022-10-01	03:03:02	16.77	8.02	NA	NA	340	NA
17189	Ptown	2022-10-01	03:18:02	16.72	8.01	NA	NA	340	NA
17190	Ptown	2022-10-01	03:33:02	16.72	7.99	NA	NA	340	NA
17191	Ptown	2022-10-01	03:48:02	16.75	8.00	NA	NA	340	NA
17192	Ptown	2022-10-01	04:03:02	16.77	8.01	NA	NA	340	NA
17193	Ptown	2022-10-01	04:18:02	16.80	8.02	NA	NA	340	NA
17194	Ptown	2022-10-01	04:33:02	16.70	8.02	NA	NA	340	NA
17195	Ptown	2022-10-01	04:48:02	16.65	8.00	NA	NA	340	NA
17196	Ptown	2022-10-01	05:03:02	16.61	7.99	NA	NA	340	NA

17197	Ptown	2022-10-01	05:18:02	16.49	7.98	NA	NA	340	NA
17198	Ptown	2022-10-01	05:33:02	16.37	7.95	NA	NA	340	NA
17199	Ptown	2022-10-01	05:48:02	16.27	7.94	NA	NA	340	NA
17200	Ptown	2022-10-01	06:03:02	16.32	7.95	NA	NA	340	NA
17201	Ptown	2022-10-01	06:18:02	16.37	8.00	NA	NA	340	NA
17202	Ptown	2022-10-01	06:33:02	16.42	8.04	NA	NA	340	NA
17203	Ptown	2022-10-01	06:48:02	16.37	8.04	NA	NA	340	NA
17204	Ptown	2022-10-01	07:03:02	16.34	8.03	NA	NA	340	NA
17205	Ptown	2022-10-01	07:18:02	16.30	8.04	NA	NA	340	NA
17206	Ptown	2022-10-01	07:33:02	16.27	8.03	NA	NA	340	NA
17207	Ptown	2022-10-01	07:48:02	16.25	8.03	NA	NA	340	NA
17208	Ptown	2022-10-01	08:03:02	16.20	8.02	NA	NA	340	NA
17209	Ptown	2022-10-01	08:18:02	16.15	8.02	NA	NA	340	NA
17210	Ptown	2022-10-01	08:33:02	16.11	8.01	NA	NA	340	NA
17211	Ptown	2022-10-01	08:48:02	15.96	8.00	NA	NA	340	NA
17212	Ptown	2022-10-01	09:03:02	15.99	7.98	NA	NA	340	NA
17213	Ptown	2022-10-01	09:18:02	15.94	7.99	NA	NA	340	NA
17214	Ptown	2022-10-01	09:33:02	15.84	7.99	NA	NA	340	NA
17215	Ptown	2022-10-01	09:48:02	15.80	7.97	NA	NA	340	NA
17216	Ptown	2022-10-01	10:03:02	15.89	7.97	NA	NA	340	NA
17217	Ptown	2022-10-01	10:18:02	15.99	8.04	NA	NA	340	NA
17218	Ptown	2022-10-01	10:33:02	16.03	8.07	NA	NA	340	NA
17219	Ptown	2022-10-01	10:48:02	16.13	8.08	NA	NA	340	NA
17220	Ptown	2022-10-01	11:03:02	16.18	8.07	NA	NA	340	NA
17221	Ptown	2022-10-01	11:18:02	16.18	8.08	NA	NA	340	NA
17222	Ptown	2022-10-01	11:33:02	16.20	8.08	NA	NA	340	NA
17223	Ptown	2022-10-01	11:48:02	16.22	8.07	NA	NA	340	NA
17224	Ptown	2022-10-01	12:03:02	16.25	8.08	NA	NA	340	NA
17225	Ptown	2022-10-01	12:18:02	16.27	8.09	NA	NA	340	NA
17226	Ptown	2022-10-01	12:33:02	16.32	8.08	NA	NA	340	NA
17227	Ptown	2022-10-01	12:48:02	16.42	8.09	NA	NA	340	NA
17228	Ptown	2022-10-01	13:03:02	16.49	8.07	NA	NA	340	NA
17229	Ptown	2022-10-01	13:18:02	16.56	8.09	NA	NA	340	NA
17230	Ptown	2022-10-01	13:33:02	16.61	8.09	NA	NA	340	NA
17231	Ptown	2022-10-01	13:48:02	16.65	8.09	NA	NA	340	NA
17232	Ptown	2022-10-01	14:03:02	16.68	8.09	NA	NA	340	NA
17233	Ptown	2022-10-01	14:18:02	16.68	8.08	NA	NA	340	NA
17234	Ptown	2022-10-01	14:33:02	16.68	8.08	NA	NA	340	NA
17235	Ptown	2022-10-01	14:48:02	16.72	8.08	NA	NA	340	NA
17236	Ptown	2022-10-01	15:03:02	16.77	8.08	NA	NA	340	NA
17237	Ptown	2022-10-01	15:18:02	16.80	8.07	NA	NA	340	NA

17238	Ptown	2022-10-01	15:33:02	16.80	8.06	NA	NA	340	NA
17239	Ptown	2022-10-01	15:48:02	16.84	8.07	NA	NA	340	NA
17240	Ptown	2022-10-01	16:03:02	16.84	8.05	NA	NA	340	NA
17241	Ptown	2022-10-01	16:18:02	16.84	8.06	NA	NA	340	NA
17242	Ptown	2022-10-01	16:33:02	16.82	8.07	NA	NA	340	NA
17243	Ptown	2022-10-01	16:48:02	16.82	8.05	NA	NA	340	NA
17244	Ptown	2022-10-01	17:03:02	16.82	8.05	NA	NA	340	NA
17245	Ptown	2022-10-01	17:18:02	16.82	8.06	NA	NA	340	NA
17246	Ptown	2022-10-01	17:33:02	16.82	8.05	NA	NA	340	NA
17247	Ptown	2022-10-01	17:48:02	16.84	8.04	NA	NA	340	NA
17248	Ptown	2022-10-01	18:03:02	16.84	8.05	NA	NA	340	NA
17249	Ptown	2022-10-01	18:18:02	16.82	8.03	NA	NA	340	NA
17250	Ptown	2022-10-01	18:33:02	16.77	8.04	NA	NA	340	NA
17251	Ptown	2022-10-01	18:48:02	16.75	8.04	NA	NA	340	NA
17252	Ptown	2022-10-01	19:03:02	16.70	8.03	NA	NA	340	NA
17253	Ptown	2022-10-01	19:18:02	16.63	8.05	NA	NA	340	NA
17254	Ptown	2022-10-01	19:33:02	16.53	8.05	NA	NA	340	NA
17255	Ptown	2022-10-01	19:48:02	16.46	8.04	NA	NA	340	NA
17256	Ptown	2022-10-01	20:03:02	16.39	8.03	NA	NA	340	NA
17257	Ptown	2022-10-01	20:18:02	16.37	8.02	NA	NA	340	NA
17258	Ptown	2022-10-01	20:33:02	16.25	7.98	NA	NA	340	NA
17259	Ptown	2022-10-01	20:48:02	16.20	8.00	NA	NA	340	NA
17260	Ptown	2022-10-01	21:03:02	16.13	7.99	NA	NA	340	NA
17261	Ptown	2022-10-01	21:18:02	16.08	7.97	NA	NA	340	NA
17262	Ptown	2022-10-01	21:33:02	15.99	7.94	NA	NA	340	NA
17263	Ptown	2022-10-01	21:48:02	15.89	7.91	NA	NA	340	NA
17264	Ptown	2022-10-01	22:03:02	15.77	7.92	NA	NA	340	NA
17265	Ptown	2022-10-01	22:18:02	15.65	7.89	NA	NA	340	NA
17266	Ptown	2022-10-01	22:33:02	15.51	7.85	NA	NA	340	NA
17267	Ptown	2022-10-01	22:48:02	15.22	7.63	NA	NA	340	NA
17268	Ptown	2022-10-01	23:03:02	15.29	7.73	NA	NA	340	NA
17269	Ptown	2022-10-01	23:18:02	15.63	7.90	NA	NA	340	NA
17270	Ptown	2022-10-01	23:33:02	15.58	7.81	NA	NA	340	NA
17271	Ptown	2022-10-01	23:48:02	15.65	7.84	NA	NA	340	NA
17272	Ptown	2022-10-02	00:03:02	15.94	7.97	NA	NA	340	NA
17273	Ptown	2022-10-02	00:18:02	16.06	7.98	NA	NA	340	NA
17274	Ptown	2022-10-02	00:33:02	16.18	7.98	NA	NA	340	NA
17275	Ptown	2022-10-02	00:48:02	16.27	7.98	NA	NA	340	NA
17276	Ptown	2022-10-02	01:03:02	16.32	7.97	NA	NA	340	NA
17277	Ptown	2022-10-02	01:18:02	16.27	7.95	NA	NA	340	NA
17278	Ptown	2022-10-02	01:33:02	16.32	7.96	NA	NA	340	NA

17279	Ptown	2022-10-02	01:48:02	16.34	7.97	NA	NA	340	NA
17280	Ptown	2022-10-02	02:03:02	16.32	7.94	NA	NA	340	NA
17281	Ptown	2022-10-02	02:18:02	16.30	7.95	NA	NA	340	NA
17282	Ptown	2022-10-02	02:33:02	16.34	7.92	NA	NA	340	NA
17283	Ptown	2022-10-02	02:48:02	16.37	7.92	NA	NA	340	NA
17284	Ptown	2022-10-02	03:03:02	16.39	7.91	NA	NA	340	NA
17285	Ptown	2022-10-02	03:18:02	16.42	7.91	NA	NA	340	NA
17286	Ptown	2022-10-02	03:33:02	16.39	7.92	NA	NA	340	NA
17287	Ptown	2022-10-02	03:48:02	16.37	7.90	NA	NA	340	NA
17288	Ptown	2022-10-02	04:03:02	16.37	7.91	NA	NA	340	NA
17289	Ptown	2022-10-02	04:18:02	16.34	7.88	NA	NA	340	NA
17290	Ptown	2022-10-02	04:33:02	16.37	7.88	NA	NA	340	NA
17291	Ptown	2022-10-02	04:48:02	16.37	7.88	NA	NA	340	NA
17292	Ptown	2022-10-02	05:03:02	16.37	7.89	NA	NA	340	NA
17293	Ptown	2022-10-02	05:18:02	16.37	7.91	NA	NA	340	NA
17294	Ptown	2022-10-02	05:33:02	16.39	7.91	NA	NA	340	NA
17295	Ptown	2022-10-02	05:48:02	16.42	7.92	NA	NA	340	NA
17296	Ptown	2022-10-02	06:03:02	16.42	7.96	NA	NA	340	NA
17297	Ptown	2022-10-02	06:18:02	16.39	7.96	NA	NA	340	NA
17298	Ptown	2022-10-02	06:33:02	16.42	7.95	NA	NA	340	NA
17299	Ptown	2022-10-02	06:48:02	16.32	7.96	NA	NA	340	NA
17300	Ptown	2022-10-02	07:03:02	16.32	7.96	NA	NA	340	NA
17301	Ptown	2022-10-02	07:18:02	16.30	7.95	NA	NA	340	NA
17302	Ptown	2022-10-02	07:33:02	16.27	7.95	NA	NA	340	NA
17303	Ptown	2022-10-02	07:48:02	16.27	7.94	NA	NA	340	NA
17304	Ptown	2022-10-02	08:03:02	16.22	7.94	NA	NA	340	NA
17305	Ptown	2022-10-02	08:18:02	16.20	7.93	NA	NA	340	NA
17306	Ptown	2022-10-02	08:33:02	16.15	7.95	NA	NA	340	NA
17307	Ptown	2022-10-02	08:48:02	16.11	7.94	NA	NA	340	NA
17308	Ptown	2022-10-02	09:03:02	16.03	7.95	NA	NA	340	NA
17309	Ptown	2022-10-02	09:18:02	15.91	7.96	NA	NA	340	NA
17310	Ptown	2022-10-02	09:33:02	15.82	7.97	NA	NA	340	NA
17311	Ptown	2022-10-02	09:48:02	15.60	7.99	NA	NA	340	NA
17312	Ptown	2022-10-02	10:03:02	15.65	8.00	NA	NA	340	NA
17313	Ptown	2022-10-02	10:18:02	15.56	8.01	NA	NA	340	NA
17314	Ptown	2022-10-02	10:33:02	15.29	8.04	NA	NA	340	NA
17315	Ptown	2022-10-02	10:48:02	15.34	8.04	NA	NA	340	NA
17316	Ptown	2022-10-02	11:03:02	15.39	8.03	NA	NA	340	NA
17317	Ptown	2022-10-02	11:18:02	15.56	8.01	NA	NA	340	NA
17318	Ptown	2022-10-02	11:33:02	15.63	8.01	NA	NA	340	NA
17319	Ptown	2022-10-02	11:48:02	15.65	8.01	NA	NA	340	NA

17320	Ptown	2022-10-02	12:03:02	15.68	8.00	NA	NA	340	NA
17321	Ptown	2022-10-02	12:18:02	15.70	8.00	NA	NA	340	NA
17322	Ptown	2022-10-02	12:33:02	15.68	7.98	NA	NA	340	NA
17323	Ptown	2022-10-02	12:48:02	15.63	7.97	NA	NA	340	NA
17324	Ptown	2022-10-02	13:03:02	15.63	7.97	NA	NA	340	NA
17325	Ptown	2022-10-02	13:18:02	15.58	7.97	NA	NA	340	NA
17326	Ptown	2022-10-02	13:33:02	15.53	7.97	NA	NA	340	NA
17327	Ptown	2022-10-02	13:48:02	15.51	7.97	NA	NA	340	NA
17328	Ptown	2022-10-02	14:03:02	15.46	7.97	NA	NA	340	NA
17329	Ptown	2022-10-02	14:18:02	15.39	7.96	NA	NA	340	NA
17330	Ptown	2022-10-02	14:33:02	15.34	7.95	NA	NA	340	NA
17331	Ptown	2022-10-02	14:48:02	15.25	7.94	NA	NA	340	NA
17332	Ptown	2022-10-02	15:03:02	14.94	7.90	NA	NA	340	NA
17333	Ptown	2022-10-02	15:18:02	14.84	7.89	NA	NA	340	NA
17334	Ptown	2022-10-02	15:33:02	14.60	7.88	NA	NA	340	NA
17335	Ptown	2022-10-02	15:48:02	14.65	7.88	NA	NA	340	NA
17336	Ptown	2022-10-02	16:03:02	14.67	7.89	NA	NA	340	NA
17337	Ptown	2022-10-02	16:18:02	14.51	7.87	NA	NA	340	NA
17338	Ptown	2022-10-02	16:33:02	14.53	7.87	NA	NA	340	NA
17339	Ptown	2022-10-02	16:48:02	14.43	7.86	NA	NA	340	NA
17340	Ptown	2022-10-02	17:03:02	14.36	7.85	NA	NA	340	NA
17341	Ptown	2022-10-02	17:18:02	14.31	7.85	NA	NA	340	NA
17342	Ptown	2022-10-02	17:33:02	14.34	7.85	NA	NA	340	NA
17343	Ptown	2022-10-02	17:48:02	14.34	7.85	NA	NA	340	NA
17344	Ptown	2022-10-02	18:03:02	14.34	7.85	NA	NA	340	NA
17345	Ptown	2022-10-02	18:18:02	14.34	7.85	NA	NA	340	NA
17346	Ptown	2022-10-02	18:33:02	14.31	7.85	NA	NA	340	NA
17347	Ptown	2022-10-02	18:48:02	14.31	7.85	NA	NA	340	NA
17348	Ptown	2022-10-02	19:03:02	14.22	7.84	NA	NA	340	NA
17349	Ptown	2022-10-02	19:18:02	14.22	7.84	NA	NA	340	NA
17350	Ptown	2022-10-02	19:33:02	14.19	7.85	NA	NA	340	NA
17351	Ptown	2022-10-02	19:48:02	14.12	7.84	NA	NA	340	NA
17352	Ptown	2022-10-02	20:03:02	14.03	7.83	NA	NA	340	NA
17353	Ptown	2022-10-02	20:18:02	13.88	7.82	NA	NA	340	NA
17354	Ptown	2022-10-02	20:33:02	13.79	7.82	NA	NA	340	NA
17355	Ptown	2022-10-02	20:48:02	13.69	7.82	NA	NA	340	NA
17356	Ptown	2022-10-02	21:03:02	13.62	7.81	NA	NA	340	NA
17357	Ptown	2022-10-02	21:18:02	13.52	7.81	NA	NA	340	NA
17358	Ptown	2022-10-02	21:33:02	13.40	7.80	NA	NA	340	NA
17359	Ptown	2022-10-02	21:48:02	13.38	7.80	NA	NA	340	NA
17360	Ptown	2022-10-02	22:03:02	13.31	7.80	NA	NA	340	NA

17361	Ptown	2022-10-02	22:18:02	13.21	7.80	NA	NA	340	NA
17362	Ptown	2022-10-02	22:33:02	12.97	7.79	NA	NA	340	NA
17363	Ptown	2022-10-02	22:48:02	12.85	7.79	NA	NA	340	NA
17364	Ptown	2022-10-02	23:03:02	12.75	7.76	NA	NA	340	NA
17365	Ptown	2022-10-02	23:18:02	12.53	7.75	NA	NA	340	NA
17366	Ptown	2022-10-02	23:33:02	12.34	7.76	NA	NA	340	NA
17367	Ptown	2022-10-02	23:48:02	12.34	7.76	NA	NA	340	NA
17368	Ptown	2022-10-03	00:03:02	12.41	7.77	NA	NA	340	NA
17369	Ptown	2022-10-03	00:18:02	12.46	7.76	NA	NA	340	NA
17370	Ptown	2022-10-03	00:33:02	12.44	7.78	NA	NA	340	NA
17371	Ptown	2022-10-03	00:48:02	12.44	7.78	NA	NA	340	NA
17372	Ptown	2022-10-03	01:03:02	12.41	7.77	NA	NA	340	NA
17373	Ptown	2022-10-03	01:18:02	12.41	7.78	NA	NA	340	NA
17374	Ptown	2022-10-03	01:33:02	12.41	7.78	NA	NA	340	NA
17375	Ptown	2022-10-03	01:48:02	12.39	7.78	NA	NA	340	NA
17376	Ptown	2022-10-03	02:03:02	12.39	7.78	NA	NA	340	NA
17377	Ptown	2022-10-03	02:18:02	12.41	7.78	NA	NA	340	NA
17378	Ptown	2022-10-03	02:33:02	12.41	7.79	NA	NA	340	NA
17379	Ptown	2022-10-03	02:48:02	12.41	7.79	NA	NA	340	NA
17380	Ptown	2022-10-03	03:03:02	12.41	7.79	NA	NA	340	NA
17381	Ptown	2022-10-03	03:18:02	12.39	7.79	NA	NA	340	NA
17382	Ptown	2022-10-03	03:33:02	12.34	7.79	NA	NA	340	NA
17383	Ptown	2022-10-03	03:48:02	12.27	7.79	NA	NA	340	NA
17384	Ptown	2022-10-03	04:03:02	12.22	7.78	NA	NA	340	NA
17385	Ptown	2022-10-03	04:18:02	12.19	7.78	NA	NA	340	NA
17386	Ptown	2022-10-03	04:33:02	12.22	7.77	NA	NA	340	NA
17387	Ptown	2022-10-03	04:48:02	12.19	7.77	NA	NA	340	NA
17388	Ptown	2022-10-03	05:03:02	12.17	7.77	NA	NA	340	NA
17389	Ptown	2022-10-03	05:18:02	12.29	7.77	NA	NA	340	NA
17390	Ptown	2022-10-03	05:33:02	12.32	7.77	NA	NA	340	NA
17391	Ptown	2022-10-03	05:48:02	12.32	7.77	NA	NA	340	NA
17392	Ptown	2022-10-03	06:03:02	12.34	7.77	NA	NA	340	NA
17393	Ptown	2022-10-03	06:18:02	12.32	7.77	NA	NA	340	NA
17394	Ptown	2022-10-03	06:33:02	12.32	7.77	NA	NA	340	NA
17395	Ptown	2022-10-03	06:48:02	12.36	7.77	NA	NA	340	NA
17396	Ptown	2022-10-03	07:03:02	12.39	7.78	NA	NA	340	NA
17397	Ptown	2022-10-03	07:18:02	12.41	7.77	NA	NA	340	NA
17398	Ptown	2022-10-03	07:33:02	12.41	7.78	NA	NA	340	NA
17399	Ptown	2022-10-03	07:48:02	12.36	7.78	NA	NA	340	NA
17400	Ptown	2022-10-03	08:03:02	12.29	7.78	NA	NA	340	NA
17401	Ptown	2022-10-03	08:18:02	12.27	7.78	NA	NA	340	NA

17402	Ptown	2022-10-03	08:33:02	12.24	7.79	NA	NA	340	NA
17403	Ptown	2022-10-03	08:48:02	12.27	7.79	NA	NA	340	NA
17404	Ptown	2022-10-03	09:03:02	12.24	7.80	NA	NA	340	NA
17405	Ptown	2022-10-03	09:18:02	12.24	7.80	NA	NA	340	NA
17406	Ptown	2022-10-03	09:33:02	12.27	7.81	NA	NA	340	NA
17407	Ptown	2022-10-03	09:48:02	12.29	7.82	NA	NA	340	NA
17408	Ptown	2022-10-03	10:03:02	12.29	7.83	NA	NA	340	NA
17409	Ptown	2022-10-03	10:18:02	12.32	7.83	NA	NA	340	NA
17410	Ptown	2022-10-03	10:33:02	12.32	7.84	NA	NA	340	NA
17411	Ptown	2022-10-03	10:48:02	12.36	7.86	NA	NA	340	NA
17412	Ptown	2022-10-03	11:03:02	12.46	7.88	NA	NA	340	NA
17413	Ptown	2022-10-03	11:18:02	12.56	7.90	NA	NA	340	NA
17414	Ptown	2022-10-03	11:33:02	12.73	7.92	NA	NA	340	NA
17415	Ptown	2022-10-03	11:48:02	12.68	7.91	NA	NA	340	NA
17416	Ptown	2022-10-03	12:03:02	12.68	7.90	NA	NA	340	NA
17417	Ptown	2022-10-03	12:18:02	12.75	7.90	NA	NA	340	NA
17418	Ptown	2022-10-03	12:33:02	12.77	7.91	NA	NA	340	NA
17419	Ptown	2022-10-03	12:48:02	12.80	7.91	NA	NA	340	NA
17420	Ptown	2022-10-03	13:03:02	12.80	7.91	NA	NA	340	NA
17421	Ptown	2022-10-03	13:18:02	12.80	7.92	NA	NA	340	NA
17422	Ptown	2022-10-03	13:33:02	12.82	7.93	NA	NA	340	NA
17423	Ptown	2022-10-03	13:48:02	12.85	7.93	NA	NA	340	NA
17424	Ptown	2022-10-03	14:03:02	12.82	7.92	NA	NA	340	NA
17425	Ptown	2022-10-03	14:18:02	12.77	7.92	NA	NA	340	NA
17426	Ptown	2022-10-03	14:33:02	12.77	7.93	NA	NA	340	NA
17427	Ptown	2022-10-03	14:48:02	12.85	7.93	NA	NA	340	NA
17428	Ptown	2022-10-03	15:03:02	12.99	7.92	NA	NA	340	NA
17429	Ptown	2022-10-03	15:18:02	13.02	7.92	NA	NA	340	NA
17430	Ptown	2022-10-03	15:33:02	13.06	7.91	NA	NA	340	NA
17431	Ptown	2022-10-03	15:48:02	13.06	7.91	NA	NA	340	NA
17432	Ptown	2022-10-03	16:03:02	13.09	7.91	NA	NA	340	NA
17433	Ptown	2022-10-03	16:18:02	13.16	7.90	NA	NA	340	NA
17434	Ptown	2022-10-03	16:33:02	13.14	7.90	NA	NA	340	NA
17435	Ptown	2022-10-03	16:48:02	13.09	7.89	NA	NA	340	NA
17436	Ptown	2022-10-03	17:03:02	13.09	7.88	NA	NA	340	NA
17437	Ptown	2022-10-03	17:18:02	13.06	7.87	NA	NA	340	NA
17438	Ptown	2022-10-03	17:33:02	13.04	7.87	NA	NA	340	NA
17439	Ptown	2022-10-03	17:48:02	13.02	7.86	NA	NA	340	NA
17440	Ptown	2022-10-03	18:03:02	12.97	7.86	NA	NA	340	NA
17441	Ptown	2022-10-03	18:18:02	12.94	7.85	NA	NA	340	NA
17442	Ptown	2022-10-03	18:33:02	12.92	7.85	NA	NA	340	NA

17443	Ptown	2022-10-03	18:48:02	12.90	7.86	NA	NA	340	NA
17444	Ptown	2022-10-03	19:03:02	12.90	7.85	NA	NA	340	NA
17445	Ptown	2022-10-03	19:18:02	12.87	7.85	NA	NA	340	NA
17446	Ptown	2022-10-03	19:33:02	12.85	7.85	NA	NA	340	NA
17447	Ptown	2022-10-03	19:48:02	12.82	7.84	NA	NA	340	NA
17448	Ptown	2022-10-03	20:03:02	12.82	7.85	NA	NA	340	NA
17449	Ptown	2022-10-03	20:18:02	12.82	7.84	NA	NA	340	NA
17450	Ptown	2022-10-03	20:33:02	12.82	7.84	NA	NA	340	NA
17451	Ptown	2022-10-03	20:48:02	12.82	7.84	NA	NA	340	NA
17452	Ptown	2022-10-03	21:03:02	12.80	7.84	NA	NA	340	NA
17453	Ptown	2022-10-03	21:18:02	12.77	7.84	NA	NA	340	NA
17454	Ptown	2022-10-03	21:33:02	12.77	7.84	NA	NA	340	NA
17455	Ptown	2022-10-03	21:48:02	12.75	7.84	NA	NA	340	NA
17456	Ptown	2022-10-03	22:03:02	12.73	7.84	NA	NA	340	NA
17457	Ptown	2022-10-03	22:18:02	12.70	7.84	NA	NA	340	NA
17458	Ptown	2022-10-03	22:33:02	12.68	7.84	NA	NA	340	NA
17459	Ptown	2022-10-03	22:48:02	12.63	7.83	NA	NA	340	NA
17460	Ptown	2022-10-03	23:03:02	12.58	7.83	NA	NA	340	NA
17461	Ptown	2022-10-03	23:18:02	12.49	7.82	NA	NA	340	NA
17462	Ptown	2022-10-03	23:33:02	12.39	7.81	NA	NA	340	NA
17463	Ptown	2022-10-03	23:48:02	12.29	7.80	NA	NA	340	NA
17464	Ptown	2022-10-04	00:03:02	12.15	7.76	NA	NA	340	NA
17465	Ptown	2022-10-04	00:18:02	12.03	7.62	NA	NA	340	NA
17466	Ptown	2022-10-04	00:33:02	11.90	7.60	NA	NA	340	NA
17467	Ptown	2022-10-04	00:48:02	11.78	7.56	NA	NA	340	NA
17468	Ptown	2022-10-04	01:03:02	11.90	7.69	NA	NA	340	NA
17469	Ptown	2022-10-04	01:18:02	11.95	7.75	NA	NA	340	NA
17470	Ptown	2022-10-04	01:33:02	12.15	7.78	NA	NA	340	NA
17471	Ptown	2022-10-04	01:48:02	12.19	7.79	NA	NA	340	NA
17472	Ptown	2022-10-04	02:03:02	12.24	7.80	NA	NA	340	NA
17473	Ptown	2022-10-04	02:18:02	12.27	7.80	NA	NA	340	NA
17474	Ptown	2022-10-04	02:33:02	12.29	7.80	NA	NA	340	NA
17475	Ptown	2022-10-04	02:48:02	12.27	7.80	NA	NA	340	NA
17476	Ptown	2022-10-04	03:03:02	12.24	7.80	NA	NA	340	NA
17477	Ptown	2022-10-04	03:18:02	12.27	7.80	NA	NA	340	NA
17478	Ptown	2022-10-04	03:33:02	12.29	7.81	NA	NA	340	NA
17479	Ptown	2022-10-04	03:48:02	12.27	7.80	NA	NA	340	NA
17480	Ptown	2022-10-04	04:03:02	12.27	7.80	NA	NA	340	NA
17481	Ptown	2022-10-04	04:18:02	12.24	7.80	NA	NA	340	NA
17482	Ptown	2022-10-04	04:33:02	12.24	7.80	NA	NA	340	NA
17483	Ptown	2022-10-04	04:48:02	12.24	7.80	NA	NA	340	NA

17484	Ptown	2022-10-04	05:03:02	12.27	7.81	NA	NA	340	NA
17485	Ptown	2022-10-04	05:18:02	12.46	7.83	NA	NA	340	NA
17486	Ptown	2022-10-04	05:33:02	12.53	7.83	NA	NA	340	NA
17487	Ptown	2022-10-04	05:48:02	12.63	7.84	NA	NA	340	NA
17488	Ptown	2022-10-04	06:03:02	12.73	7.84	NA	NA	340	NA
17489	Ptown	2022-10-04	06:18:02	12.70	7.84	NA	NA	340	NA
17490	Ptown	2022-10-04	06:33:02	12.73	7.84	NA	NA	340	NA
17491	Ptown	2022-10-04	06:48:02	12.65	7.83	NA	NA	340	NA
17492	Ptown	2022-10-04	07:03:02	12.56	7.83	NA	NA	340	NA
17493	Ptown	2022-10-04	07:18:02	12.61	7.83	NA	NA	340	NA
17494	Ptown	2022-10-04	07:33:02	12.61	7.82	NA	NA	340	NA
17495	Ptown	2022-10-04	07:48:02	12.63	7.83	NA	NA	340	NA
17496	Ptown	2022-10-04	08:03:02	13.02	7.86	NA	NA	340	NA
17497	Ptown	2022-10-04	08:18:02	13.06	7.86	NA	NA	340	NA
17498	Ptown	2022-10-04	08:33:02	13.09	7.86	NA	NA	340	NA
17499	Ptown	2022-10-04	08:48:02	12.87	7.85	NA	NA	340	NA
17500	Ptown	2022-10-04	09:03:02	12.87	7.84	NA	NA	340	NA
17501	Ptown	2022-10-04	09:18:02	12.65	7.82	NA	NA	340	NA
17502	Ptown	2022-10-04	09:33:02	12.56	7.82	NA	NA	340	NA
17503	Ptown	2022-10-04	09:48:02	12.56	7.82	NA	NA	340	NA
17504	Ptown	2022-10-04	10:03:02	12.56	7.82	NA	NA	340	NA
17505	Ptown	2022-10-04	10:18:02	12.56	7.83	NA	NA	340	NA
17506	Ptown	2022-10-04	10:33:02	12.56	7.83	NA	NA	340	NA
17507	Ptown	2022-10-04	10:48:02	12.58	7.84	NA	NA	340	NA
17508	Ptown	2022-10-04	11:03:02	12.61	7.84	NA	NA	340	NA
17509	Ptown	2022-10-04	11:18:02	12.63	7.84	NA	NA	340	NA
17510	Ptown	2022-10-04	11:33:02	12.68	7.87	NA	NA	340	NA
17511	Ptown	2022-10-04	11:48:02	12.75	7.88	NA	NA	340	NA
17512	Ptown	2022-10-04	12:03:02	12.80	7.89	NA	NA	340	NA
17513	Ptown	2022-10-04	12:18:02	12.94	7.92	NA	NA	340	NA
17514	Ptown	2022-10-04	12:33:02	13.04	7.93	NA	NA	340	NA
17515	Ptown	2022-10-04	12:48:02	13.14	7.94	NA	NA	340	NA
17516	Ptown	2022-10-04	13:03:02	13.21	7.94	NA	NA	340	NA
17517	Ptown	2022-10-04	13:18:02	13.23	7.93	NA	NA	340	NA
17518	Ptown	2022-10-04	13:33:02	13.18	7.93	NA	NA	340	NA
17519	Ptown	2022-10-04	13:48:02	13.18	7.93	NA	NA	340	NA
17520	Ptown	2022-10-04	14:03:02	13.14	7.93	NA	NA	340	NA
17521	Ptown	2022-10-04	14:18:02	13.14	7.93	NA	NA	340	NA
17522	Ptown	2022-10-04	14:33:02	13.14	7.92	NA	NA	340	NA
17523	Ptown	2022-10-04	14:48:02	13.11	7.93	NA	NA	340	NA
17524	Ptown	2022-10-04	15:03:02	13.11	7.93	NA	NA	340	NA

17525	Ptown	2022-10-04	15:18:02	13.14	7.94	NA	NA	340	NA
17526	Ptown	2022-10-04	15:33:02	13.21	7.95	NA	NA	340	NA
17527	Ptown	2022-10-04	15:48:02	13.21	7.95	NA	NA	340	NA
17528	Ptown	2022-10-04	16:03:02	13.26	7.94	NA	NA	340	NA
17529	Ptown	2022-10-04	16:18:02	13.26	7.94	NA	NA	340	NA
17530	Ptown	2022-10-04	16:33:02	13.26	7.93	NA	NA	340	NA
17531	Ptown	2022-10-04	16:48:02	13.11	7.89	NA	NA	340	NA
17532	Ptown	2022-10-04	17:03:02	13.06	7.89	NA	NA	340	NA
17533	Ptown	2022-10-04	17:18:02	13.11	7.89	NA	NA	340	NA
17534	Ptown	2022-10-04	17:33:02	13.14	7.89	NA	NA	340	NA
17535	Ptown	2022-10-04	17:48:02	13.26	7.89	NA	NA	340	NA
17536	Ptown	2022-10-04	18:03:02	13.28	7.89	NA	NA	340	NA
17537	Ptown	2022-10-04	18:18:02	13.26	7.89	NA	NA	340	NA
17538	Ptown	2022-10-04	18:33:02	13.45	7.91	NA	NA	340	NA
17539	Ptown	2022-10-04	18:48:02	13.50	7.91	NA	NA	340	NA
17540	Ptown	2022-10-04	19:03:02	13.45	7.90	NA	NA	340	NA
17541	Ptown	2022-10-04	19:18:02	13.47	7.91	NA	NA	340	NA
17542	Ptown	2022-10-04	19:33:02	13.43	7.90	NA	NA	340	NA
17543	Ptown	2022-10-04	19:48:02	13.38	7.89	NA	NA	340	NA
17544	Ptown	2022-10-04	20:03:02	13.40	7.89	NA	NA	340	NA
17545	Ptown	2022-10-04	20:18:02	13.38	7.88	NA	NA	340	NA
17546	Ptown	2022-10-04	20:33:02	13.28	7.86	NA	NA	340	NA
17547	Ptown	2022-10-04	20:48:02	13.28	7.86	NA	NA	340	NA
17548	Ptown	2022-10-04	21:03:02	13.18	7.85	NA	NA	340	NA
17549	Ptown	2022-10-04	21:18:02	13.23	7.85	NA	NA	340	NA
17550	Ptown	2022-10-04	21:33:02	13.26	7.86	NA	NA	340	NA
17551	Ptown	2022-10-04	21:48:02	13.18	7.85	NA	NA	340	NA
17552	Ptown	2022-10-04	22:03:02	13.16	7.84	NA	NA	340	NA
17553	Ptown	2022-10-04	22:18:02	13.14	7.84	NA	NA	340	NA
17554	Ptown	2022-10-04	22:33:02	13.14	7.83	NA	NA	340	NA
17555	Ptown	2022-10-04	22:48:02	13.14	7.83	NA	NA	340	NA
17556	Ptown	2022-10-04	23:03:02	13.14	7.83	NA	NA	340	NA
17557	Ptown	2022-10-04	23:18:02	13.16	7.83	NA	NA	340	NA
17558	Ptown	2022-10-04	23:33:02	13.16	7.83	NA	NA	340	NA
17559	Ptown	2022-10-04	23:48:02	13.18	7.83	NA	NA	340	NA
17560	Ptown	2022-10-05	00:03:02	13.18	7.83	NA	NA	340	NA
17561	Ptown	2022-10-05	00:18:02	13.28	7.81	NA	NA	340	NA
17562	Ptown	2022-10-05	00:33:02	13.33	7.76	NA	NA	340	NA
17563	Ptown	2022-10-05	00:48:02	13.45	7.69	NA	NA	340	NA
17564	Ptown	2022-10-05	01:03:02	13.59	7.60	NA	NA	340	NA
17565	Ptown	2022-10-05	01:18:02	13.69	7.55	NA	NA	340	NA

17566	Ptown	2022-10-05	01:33:02	13.55	7.67	NA	NA	340	NA
17567	Ptown	2022-10-05	01:48:02	13.69	7.54	NA	NA	340	NA
17568	Ptown	2022-10-05	02:03:02	13.71	7.53	NA	NA	340	NA
17569	Ptown	2022-10-05	02:18:02	13.59	7.71	NA	NA	340	NA
17570	Ptown	2022-10-05	02:33:02	13.55	7.68	NA	NA	340	NA
17571	Ptown	2022-10-05	02:48:02	13.40	7.77	NA	NA	340	NA
17572	Ptown	2022-10-05	03:03:02	13.38	7.77	NA	NA	340	NA
17573	Ptown	2022-10-05	03:18:02	13.31	7.78	NA	NA	340	NA
17574	Ptown	2022-10-05	03:33:02	13.28	7.78	NA	NA	340	NA
17575	Ptown	2022-10-05	03:48:02	13.28	7.79	NA	NA	340	NA
17576	Ptown	2022-10-05	04:03:02	13.31	7.80	NA	NA	340	NA
17577	Ptown	2022-10-05	04:18:02	13.33	7.77	NA	NA	340	NA
17578	Ptown	2022-10-05	04:33:02	13.35	7.80	NA	NA	340	NA
17579	Ptown	2022-10-05	04:48:02	13.40	7.81	NA	NA	340	NA
17580	Ptown	2022-10-05	05:03:02	13.40	7.81	NA	NA	340	NA
17581	Ptown	2022-10-05	05:18:02	13.38	7.81	NA	NA	340	NA
17582	Ptown	2022-10-05	05:33:02	13.35	7.81	NA	NA	340	NA
17583	Ptown	2022-10-05	05:48:02	13.28	7.80	NA	NA	340	NA
17584	Ptown	2022-10-05	06:03:02	13.26	7.80	NA	NA	340	NA
17585	Ptown	2022-10-05	06:18:02	13.28	7.80	NA	NA	340	NA
17586	Ptown	2022-10-05	06:33:02	13.31	7.81	NA	NA	340	NA
17587	Ptown	2022-10-05	06:48:02	13.33	7.82	NA	NA	340	NA
17588	Ptown	2022-10-05	07:03:02	13.35	7.82	NA	NA	340	NA
17589	Ptown	2022-10-05	07:18:02	13.40	7.83	NA	NA	340	NA
17590	Ptown	2022-10-05	07:33:02	13.43	7.83	NA	NA	340	NA
17591	Ptown	2022-10-05	07:48:02	13.43	7.83	NA	NA	340	NA
17592	Ptown	2022-10-05	08:03:02	13.43	7.83	NA	NA	340	NA
17593	Ptown	2022-10-05	08:18:02	13.40	7.82	NA	NA	340	NA
17594	Ptown	2022-10-05	08:33:02	13.38	7.83	NA	NA	340	NA
17595	Ptown	2022-10-05	08:48:02	13.38	7.82	NA	NA	340	NA
17596	Ptown	2022-10-05	09:03:02	13.38	7.82	NA	NA	340	NA
17597	Ptown	2022-10-05	09:18:02	13.38	7.82	NA	NA	340	NA
17598	Ptown	2022-10-05	09:33:02	13.38	7.81	NA	NA	340	NA
17599	Ptown	2022-10-05	09:48:02	13.38	7.81	NA	NA	340	NA
17600	Ptown	2022-10-05	10:03:02	13.40	7.81	NA	NA	340	NA
17601	Ptown	2022-10-05	10:18:02	13.43	7.80	NA	NA	340	NA
17602	Ptown	2022-10-05	10:33:02	13.43	7.80	NA	NA	340	NA
17603	Ptown	2022-10-05	10:48:02	13.45	7.79	NA	NA	340	NA
17604	Ptown	2022-10-05	11:03:02	13.47	7.80	NA	NA	340	NA
17605	Ptown	2022-10-05	11:18:02	13.50	7.82	NA	NA	340	NA
17606	Ptown	2022-10-05	11:33:02	13.52	7.82	NA	NA	340	NA

17607	Ptown	2022-10-05	11:48:02	13.55	7.83	NA	NA	340	NA
17608	Ptown	2022-10-05	12:03:02	13.59	7.84	NA	NA	340	NA
17609	Ptown	2022-10-05	12:18:02	13.64	7.85	NA	NA	340	NA
17610	Ptown	2022-10-05	12:33:02	13.74	7.85	NA	NA	340	NA
17611	Ptown	2022-10-05	12:48:02	13.83	7.87	NA	NA	340	NA
17612	Ptown	2022-10-05	13:03:02	13.93	7.89	NA	NA	340	NA
17613	Ptown	2022-10-05	13:18:02	14.00	7.91	NA	NA	340	NA
17614	Ptown	2022-10-05	13:33:02	14.07	7.92	NA	NA	340	NA
17615	Ptown	2022-10-05	13:48:02	14.15	7.94	NA	NA	340	NA
17616	Ptown	2022-10-05	14:03:02	14.22	7.94	NA	NA	340	NA
17617	Ptown	2022-10-05	14:18:02	14.24	7.95	NA	NA	340	NA
17618	Ptown	2022-10-05	14:33:02	14.24	7.93	NA	NA	340	NA
17619	Ptown	2022-10-05	14:48:02	14.12	7.92	NA	NA	340	NA
17620	Ptown	2022-10-05	15:03:02	14.15	7.96	NA	NA	340	NA
17621	Ptown	2022-10-05	15:18:02	14.15	7.96	NA	NA	340	NA
17622	Ptown	2022-10-05	15:33:02	14.10	7.94	NA	NA	340	NA
17623	Ptown	2022-10-05	15:48:02	14.15	7.96	NA	NA	340	NA
17624	Ptown	2022-10-05	16:03:02	14.22	7.97	NA	NA	340	NA
17625	Ptown	2022-10-05	16:18:02	14.27	7.97	NA	NA	340	NA
17626	Ptown	2022-10-05	16:33:02	14.27	7.96	NA	NA	340	NA
17627	Ptown	2022-10-05	16:48:02	14.29	7.97	NA	NA	340	NA
17628	Ptown	2022-10-05	17:03:02	14.24	7.94	NA	NA	340	NA
17629	Ptown	2022-10-05	17:18:02	14.19	7.94	NA	NA	340	NA
17630	Ptown	2022-10-05	17:33:02	14.12	7.92	NA	NA	340	NA
17631	Ptown	2022-10-05	17:48:02	14.07	7.90	NA	NA	340	NA
17632	Ptown	2022-10-05	18:03:02	14.07	7.92	NA	NA	340	NA
17633	Ptown	2022-10-05	18:18:02	14.07	7.92	NA	NA	340	NA
17634	Ptown	2022-10-05	18:33:02	14.03	7.91	NA	NA	340	NA
17635	Ptown	2022-10-05	18:48:02	14.00	7.92	NA	NA	340	NA
17636	Ptown	2022-10-05	19:03:02	13.98	7.90	NA	NA	340	NA
17637	Ptown	2022-10-05	19:18:02	13.98	7.90	NA	NA	340	NA
17638	Ptown	2022-10-05	19:33:02	14.00	7.91	NA	NA	340	NA
17639	Ptown	2022-10-05	19:48:02	14.00	7.88	NA	NA	340	NA
17640	Ptown	2022-10-05	20:03:02	13.98	7.88	NA	NA	340	NA
17641	Ptown	2022-10-05	20:18:02	13.98	7.90	NA	NA	340	NA
17642	Ptown	2022-10-05	20:33:02	13.95	7.89	NA	NA	340	NA
17643	Ptown	2022-10-05	20:48:02	13.95	7.89	NA	NA	340	NA
17644	Ptown	2022-10-05	21:03:02	13.93	7.90	NA	NA	340	NA
17645	Ptown	2022-10-05	21:18:02	13.93	7.91	NA	NA	340	NA
17646	Ptown	2022-10-05	21:33:02	13.88	7.90	NA	NA	340	NA
17647	Ptown	2022-10-05	21:48:02	13.83	7.87	NA	NA	340	NA

17648	Ptown	2022-10-05	22:03:02	13.88	7.89	NA	NA	340	NA
17649	Ptown	2022-10-05	22:18:02	13.88	7.90	NA	NA	340	NA
17650	Ptown	2022-10-05	22:33:02	13.88	7.89	NA	NA	340	NA
17651	Ptown	2022-10-05	22:48:02	13.88	7.89	NA	NA	340	NA
17652	Ptown	2022-10-05	23:03:02	13.88	7.90	NA	NA	340	NA
17653	Ptown	2022-10-05	23:18:02	13.88	7.90	NA	NA	340	NA
17654	Ptown	2022-10-05	23:33:02	13.88	7.90	NA	NA	340	NA
17655	Ptown	2022-10-05	23:48:02	13.86	7.90	NA	NA	340	NA
17656	Ptown	2022-10-06	00:03:02	13.88	7.90	NA	NA	340	NA
17657	Ptown	2022-10-06	00:18:02	13.88	7.90	NA	NA	340	NA
17658	Ptown	2022-10-06	00:33:02	13.88	7.90	NA	NA	340	NA
17659	Ptown	2022-10-06	00:48:02	13.88	7.90	NA	NA	340	NA
17660	Ptown	2022-10-06	01:03:02	13.91	7.89	NA	NA	340	NA
17661	Ptown	2022-10-06	01:18:02	13.91	7.88	NA	NA	340	NA
17662	Ptown	2022-10-06	01:33:02	13.93	7.87	NA	NA	340	NA
17663	Ptown	2022-10-06	01:48:02	13.93	7.87	NA	NA	340	NA
17664	Ptown	2022-10-06	02:03:02	13.98	7.84	NA	NA	340	NA
17665	Ptown	2022-10-06	02:18:02	14.05	7.78	NA	NA	340	NA
17666	Ptown	2022-10-06	02:33:02	14.10	7.75	NA	NA	340	NA
17667	Ptown	2022-10-06	02:48:02	14.12	7.73	NA	NA	340	NA
17668	Ptown	2022-10-06	03:03:02	14.24	7.64	NA	NA	340	NA
17669	Ptown	2022-10-06	03:18:02	14.24	7.68	NA	NA	340	NA
17670	Ptown	2022-10-06	03:33:02	14.10	7.80	NA	NA	340	NA
17671	Ptown	2022-10-06	03:48:02	14.03	7.85	NA	NA	340	NA
17672	Ptown	2022-10-06	04:03:02	14.07	7.80	NA	NA	340	NA
17673	Ptown	2022-10-06	04:18:02	14.10	7.78	NA	NA	340	NA
17674	Ptown	2022-10-06	04:33:02	14.07	7.81	NA	NA	340	NA
17675	Ptown	2022-10-06	04:48:02	14.05	7.84	NA	NA	340	NA
17676	Ptown	2022-10-06	05:03:02	14.03	7.85	NA	NA	340	NA
17677	Ptown	2022-10-06	05:18:02	14.03	7.85	NA	NA	340	NA
17678	Ptown	2022-10-06	05:33:02	14.03	7.86	NA	NA	340	NA
17679	Ptown	2022-10-06	05:48:02	14.03	7.86	NA	NA	340	NA
17680	Ptown	2022-10-06	06:03:02	14.00	7.87	NA	NA	340	NA
17681	Ptown	2022-10-06	06:18:02	14.00	7.87	NA	NA	340	NA
17682	Ptown	2022-10-06	06:33:02	14.03	7.86	NA	NA	340	NA
17683	Ptown	2022-10-06	06:48:02	14.00	7.84	NA	NA	340	NA
17684	Ptown	2022-10-06	07:03:02	13.95	7.84	NA	NA	340	NA
17685	Ptown	2022-10-06	07:18:02	13.93	7.82	NA	NA	340	NA
17686	Ptown	2022-10-06	07:33:02	13.83	7.81	NA	NA	340	NA
17687	Ptown	2022-10-06	07:48:02	13.76	7.80	NA	NA	340	NA
17688	Ptown	2022-10-06	08:03:02	13.64	7.81	NA	NA	340	NA

17689	Ptown	2022-10-06	08:18:02	13.59	7.80	NA	NA	340	NA
17690	Ptown	2022-10-06	08:33:02	13.55	7.79	NA	NA	340	NA
17691	Ptown	2022-10-06	08:48:02	13.50	7.78	NA	NA	340	NA
17692	Ptown	2022-10-06	09:03:02	13.47	7.80	NA	NA	340	NA
17693	Ptown	2022-10-06	09:18:02	13.43	7.80	NA	NA	340	NA
17694	Ptown	2022-10-06	09:33:02	13.43	7.84	NA	NA	340	NA
17695	Ptown	2022-10-06	09:48:02	13.40	7.84	NA	NA	340	NA
17696	Ptown	2022-10-06	10:03:02	13.33	7.81	NA	NA	340	NA
17697	Ptown	2022-10-06	10:18:02	13.28	7.83	NA	NA	340	NA
17698	Ptown	2022-10-06	10:33:02	13.31	7.84	NA	NA	340	NA
17699	Ptown	2022-10-06	10:48:02	13.31	7.85	NA	NA	340	NA
17700	Ptown	2022-10-06	11:03:02	13.33	7.85	NA	NA	340	NA
17701	Ptown	2022-10-06	11:18:02	13.40	7.86	NA	NA	340	NA
17702	Ptown	2022-10-06	11:33:02	13.45	7.87	NA	NA	340	NA
17703	Ptown	2022-10-06	11:48:02	13.55	7.88	NA	NA	340	NA
17704	Ptown	2022-10-06	12:03:02	13.69	7.88	NA	NA	340	NA
17705	Ptown	2022-10-06	12:18:02	13.74	7.87	NA	NA	340	NA
17706	Ptown	2022-10-06	12:33:02	13.86	7.88	NA	NA	340	NA
17707	Ptown	2022-10-06	12:48:02	13.98	7.89	NA	NA	340	NA
17708	Ptown	2022-10-06	13:03:02	14.10	7.89	NA	NA	340	NA
17709	Ptown	2022-10-06	13:18:02	14.27	7.91	NA	NA	340	NA
17710	Ptown	2022-10-06	13:33:02	14.51	7.93	NA	NA	340	NA
17711	Ptown	2022-10-06	13:48:02	14.74	7.97	NA	NA	340	NA
17712	Ptown	2022-10-06	14:03:02	14.98	7.99	NA	NA	340	NA
17713	Ptown	2022-10-06	14:18:02	15.29	8.01	NA	NA	340	NA
17714	Ptown	2022-10-06	14:33:02	15.75	8.05	NA	NA	340	NA
17715	Ptown	2022-10-06	14:48:02	16.39	8.09	NA	NA	340	NA
17716	Ptown	2022-10-06	15:03:02	16.84	8.12	NA	NA	340	NA
17717	Ptown	2022-10-06	15:18:02	17.51	8.20	NA	NA	340	NA
17718	Ptown	2022-10-06	15:33:02	16.99	8.16	NA	NA	340	NA
17719	Ptown	2022-10-06	15:48:02	16.32	8.17	NA	NA	340	NA
17720	Ptown	2022-10-06	16:03:02	16.22	8.17	NA	NA	340	NA
17721	Ptown	2022-10-06	16:18:02	16.25	8.13	NA	NA	340	NA
17722	Ptown	2022-10-06	16:33:02	16.25	8.11	NA	NA	340	NA
17723	Ptown	2022-10-06	16:48:02	15.87	8.06	NA	NA	340	NA
17724	Ptown	2022-10-06	17:03:02	15.58	8.07	NA	NA	340	NA
17725	Ptown	2022-10-06	17:18:02	15.53	8.07	NA	NA	340	NA
17726	Ptown	2022-10-06	17:33:02	15.25	8.04	NA	NA	340	NA
17727	Ptown	2022-10-06	17:48:02	15.17	8.04	NA	NA	340	NA
17728	Ptown	2022-10-06	18:03:02	15.10	8.03	NA	NA	340	NA
17729	Ptown	2022-10-06	18:18:02	15.08	8.03	NA	NA	340	NA

17730	Ptown	2022-10-06	18:33:02	15.01	8.02	NA	NA	340	NA
17731	Ptown	2022-10-06	18:48:02	14.91	8.00	NA	NA	340	NA
17732	Ptown	2022-10-06	19:03:02	14.82	8.00	NA	NA	340	NA
17733	Ptown	2022-10-06	19:18:02	14.72	7.99	NA	NA	340	NA
17734	Ptown	2022-10-06	19:33:02	14.67	7.98	NA	NA	340	NA
17735	Ptown	2022-10-06	19:48:02	14.65	7.98	NA	NA	340	NA
17736	Ptown	2022-10-06	20:03:02	14.53	7.98	NA	NA	340	NA
17737	Ptown	2022-10-06	20:18:02	14.41	7.95	NA	NA	340	NA
17738	Ptown	2022-10-06	20:33:02	14.34	7.95	NA	NA	340	NA
17739	Ptown	2022-10-06	20:48:02	14.31	7.96	NA	NA	340	NA
17740	Ptown	2022-10-06	21:03:02	14.29	7.96	NA	NA	340	NA
17741	Ptown	2022-10-06	21:18:02	14.29	7.96	NA	NA	340	NA
17742	Ptown	2022-10-06	21:33:02	14.27	7.97	NA	NA	340	NA
17743	Ptown	2022-10-06	21:48:02	14.27	7.97	NA	NA	340	NA
17744	Ptown	2022-10-06	22:03:02	14.15	7.98	NA	NA	340	NA
17745	Ptown	2022-10-06	22:18:02	14.10	7.97	NA	NA	340	NA
17746	Ptown	2022-10-06	22:33:02	14.07	7.97	NA	NA	340	NA
17747	Ptown	2022-10-06	22:48:02	14.07	7.97	NA	NA	340	NA
17748	Ptown	2022-10-06	23:03:02	14.07	7.96	NA	NA	340	NA
17749	Ptown	2022-10-06	23:18:02	14.10	7.96	NA	NA	340	NA
17750	Ptown	2022-10-06	23:33:02	14.10	7.96	NA	NA	340	NA
17751	Ptown	2022-10-06	23:48:02	14.12	7.96	NA	NA	340	NA
17752	Ptown	2022-10-07	00:03:02	14.15	7.96	NA	NA	340	NA
17753	Ptown	2022-10-07	00:18:02	14.19	7.97	NA	NA	340	NA
17754	Ptown	2022-10-07	00:33:02	14.22	7.96	NA	NA	340	NA
17755	Ptown	2022-10-07	00:48:02	14.27	7.96	NA	NA	340	NA
17756	Ptown	2022-10-07	01:03:02	14.31	7.95	NA	NA	340	NA
17757	Ptown	2022-10-07	01:18:02	14.39	7.95	NA	NA	340	NA
17758	Ptown	2022-10-07	01:33:02	14.48	7.95	NA	NA	340	NA
17759	Ptown	2022-10-07	01:48:02	14.58	7.96	NA	NA	340	NA
17760	Ptown	2022-10-07	02:03:02	14.65	8.00	NA	NA	340	NA
17761	Ptown	2022-10-07	02:18:02	14.70	8.02	NA	NA	340	NA
17762	Ptown	2022-10-07	02:33:02	14.67	7.97	NA	NA	340	NA
17763	Ptown	2022-10-07	02:48:02	14.65	7.95	NA	NA	340	NA
17764	Ptown	2022-10-07	03:03:02	14.55	7.87	NA	NA	340	NA
17765	Ptown	2022-10-07	03:18:02	14.34	7.77	NA	NA	340	NA
17766	Ptown	2022-10-07	03:33:02	14.27	7.86	NA	NA	340	NA
17767	Ptown	2022-10-07	03:48:02	14.24	7.86	NA	NA	340	NA
17768	Ptown	2022-10-07	04:03:02	14.19	7.86	NA	NA	340	NA
17769	Ptown	2022-10-07	04:18:02	13.86	7.40	NA	NA	340	NA
17770	Ptown	2022-10-07	04:33:02	14.07	7.84	NA	NA	340	NA

17771	Ptown	2022-10-07	04:48:02	14.31	7.88	NA	NA	340	NA
17772	Ptown	2022-10-07	05:03:02	14.36	7.91	NA	NA	340	NA
17773	Ptown	2022-10-07	05:18:02	14.43	7.96	NA	NA	340	NA
17774	Ptown	2022-10-07	05:33:02	14.53	7.97	NA	NA	340	NA
17775	Ptown	2022-10-07	05:48:02	14.51	7.97	NA	NA	340	NA
17776	Ptown	2022-10-07	06:03:02	14.51	7.97	NA	NA	340	NA
17777	Ptown	2022-10-07	06:18:02	14.48	7.97	NA	NA	340	NA
17778	Ptown	2022-10-07	06:33:02	14.36	7.97	NA	NA	340	NA
17779	Ptown	2022-10-07	06:48:02	14.29	7.97	NA	NA	340	NA
17780	Ptown	2022-10-07	07:03:02	14.27	7.97	NA	NA	340	NA
17781	Ptown	2022-10-07	07:18:02	14.22	7.97	NA	NA	340	NA
17782	Ptown	2022-10-07	07:33:02	14.19	7.98	NA	NA	340	NA
17783	Ptown	2022-10-07	07:48:02	14.19	7.98	NA	NA	340	NA
17784	Ptown	2022-10-07	08:03:02	14.19	7.99	NA	NA	340	NA
17785	Ptown	2022-10-07	08:18:02	14.19	7.99	NA	NA	340	NA
17786	Ptown	2022-10-07	08:33:02	14.22	8.00	NA	NA	340	NA
17787	Ptown	2022-10-07	08:48:02	14.22	8.00	NA	NA	340	NA
17788	Ptown	2022-10-07	09:03:02	14.22	8.01	NA	NA	340	NA
17789	Ptown	2022-10-07	09:18:02	14.24	8.01	NA	NA	340	NA
17790	Ptown	2022-10-07	09:33:02	14.27	8.02	NA	NA	340	NA
17791	Ptown	2022-10-07	09:48:02	14.29	8.02	NA	NA	340	NA
17792	Ptown	2022-10-07	10:03:02	14.31	8.03	NA	NA	340	NA
17793	Ptown	2022-10-07	10:18:02	14.36	8.03	NA	NA	340	NA
17794	Ptown	2022-10-07	10:33:02	14.41	8.05	NA	NA	340	NA
17795	Ptown	2022-10-07	10:48:02	14.46	8.06	NA	NA	340	NA
17796	Ptown	2022-10-07	11:03:02	14.51	8.07	NA	NA	340	NA
17797	Ptown	2022-10-07	11:18:02	14.55	8.07	NA	NA	340	NA
17798	Ptown	2022-10-07	11:33:02	14.58	8.08	NA	NA	340	NA
17799	Ptown	2022-10-07	11:48:02	14.62	8.06	NA	NA	340	NA
17800	Ptown	2022-10-07	12:03:02	14.65	8.07	NA	NA	340	NA
17801	Ptown	2022-10-07	12:18:02	14.72	8.08	NA	NA	340	NA
17802	Ptown	2022-10-07	12:33:02	14.74	8.08	NA	NA	340	NA
17803	Ptown	2022-10-07	12:48:02	14.79	8.09	NA	NA	340	NA
17804	Ptown	2022-10-07	13:03:02	14.86	8.10	NA	NA	340	NA
17805	Ptown	2022-10-07	13:18:02	14.98	8.12	NA	NA	340	NA
17806	Ptown	2022-10-07	13:33:02	15.08	8.14	NA	NA	340	NA
17807	Ptown	2022-10-07	13:48:02	15.20	8.16	NA	NA	340	NA
17808	Ptown	2022-10-07	14:03:02	15.37	8.17	NA	NA	340	NA
17809	Ptown	2022-10-07	14:18:02	15.65	8.13	NA	NA	340	NA
17810	Ptown	2022-10-07	14:33:02	15.87	8.19	NA	NA	340	NA
17811	Ptown	2022-10-07	14:48:02	16.22	8.17	NA	NA	340	NA

17812	Ptown	2022-10-07	15:03:02	16.61	8.20	NA	NA	340	NA
17813	Ptown	2022-10-07	15:18:02	16.99	8.18	NA	NA	340	NA
17814	Ptown	2022-10-07	15:33:02	17.58	8.18	NA	NA	340	NA
17815	Ptown	2022-10-07	15:48:02	17.91	8.17	NA	NA	340	NA
17816	Ptown	2022-10-07	16:03:02	18.13	8.26	NA	NA	340	NA
17817	Ptown	2022-10-07	16:18:02	18.13	8.23	NA	NA	340	NA
17818	Ptown	2022-10-07	16:33:02	17.84	8.27	NA	NA	340	NA
17819	Ptown	2022-10-07	16:48:02	17.65	8.25	NA	NA	340	NA
17820	Ptown	2022-10-07	17:03:02	17.15	8.18	NA	NA	340	NA
17821	Ptown	2022-10-07	17:18:02	17.42	8.18	NA	NA	340	NA
17822	Ptown	2022-10-07	17:33:02	17.27	8.14	NA	NA	340	NA
17823	Ptown	2022-10-07	17:48:02	16.80	8.12	NA	NA	340	NA
17824	Ptown	2022-10-07	18:03:02	16.63	8.09	NA	NA	340	NA
17825	Ptown	2022-10-07	18:18:02	16.75	8.11	NA	NA	340	NA
17826	Ptown	2022-10-07	18:33:02	16.58	8.08	NA	NA	340	NA
17827	Ptown	2022-10-07	18:48:02	16.46	8.06	NA	NA	340	NA
17828	Ptown	2022-10-07	19:03:02	16.37	8.05	NA	NA	340	NA
17829	Ptown	2022-10-07	19:18:02	16.32	8.04	NA	NA	340	NA
17830	Ptown	2022-10-07	19:33:02	16.27	8.04	NA	NA	340	NA
17831	Ptown	2022-10-07	19:48:02	16.22	8.03	NA	NA	340	NA
17832	Ptown	2022-10-07	20:03:02	16.08	8.05	NA	NA	340	NA
17833	Ptown	2022-10-07	20:18:02	16.01	8.05	NA	NA	340	NA
17834	Ptown	2022-10-07	20:33:02	15.96	8.05	NA	NA	340	NA
17835	Ptown	2022-10-07	20:48:02	15.96	8.05	NA	NA	340	NA
17836	Ptown	2022-10-07	21:03:02	15.99	8.05	NA	NA	340	NA
17837	Ptown	2022-10-07	21:18:02	15.94	8.06	NA	NA	340	NA
17838	Ptown	2022-10-07	21:33:02	15.87	8.07	NA	NA	340	NA
17839	Ptown	2022-10-07	21:48:02	15.80	8.07	NA	NA	340	NA
17840	Ptown	2022-10-07	22:03:02	15.77	8.07	NA	NA	340	NA
17841	Ptown	2022-10-07	22:18:02	15.75	8.08	NA	NA	340	NA
17842	Ptown	2022-10-07	22:33:02	15.70	8.07	NA	NA	340	NA
17843	Ptown	2022-10-07	22:48:02	15.65	8.08	NA	NA	340	NA
17844	Ptown	2022-10-07	23:03:02	15.60	8.08	NA	NA	340	NA
17845	Ptown	2022-10-07	23:18:02	15.56	8.08	NA	NA	340	NA
17846	Ptown	2022-10-07	23:33:02	15.53	8.07	NA	NA	340	NA
17847	Ptown	2022-10-07	23:48:02	15.51	8.05	NA	NA	340	NA
17848	Ptown	2022-10-08	00:03:02	15.51	8.06	NA	NA	340	NA
17849	Ptown	2022-10-08	00:18:02	15.60	8.06	NA	NA	340	NA
17850	Ptown	2022-10-08	00:33:02	15.68	8.06	NA	NA	340	NA
17851	Ptown	2022-10-08	00:48:02	15.70	8.07	NA	NA	340	NA
17852	Ptown	2022-10-08	01:03:02	15.70	8.08	NA	NA	340	NA

17853	Ptown	2022-10-08	01:18:02	15.65	8.09	NA	NA	340	NA
17854	Ptown	2022-10-08	01:33:02	15.63	8.08	NA	NA	340	NA
17855	Ptown	2022-10-08	01:48:02	15.63	8.07	NA	NA	340	NA
17856	Ptown	2022-10-08	02:03:02	15.58	8.06	NA	NA	340	NA
17857	Ptown	2022-10-08	02:18:02	15.51	8.05	NA	NA	340	NA
17858	Ptown	2022-10-08	02:33:02	15.46	8.05	NA	NA	340	NA
17859	Ptown	2022-10-08	02:48:02	15.39	8.04	NA	NA	340	NA
17860	Ptown	2022-10-08	03:03:02	15.34	8.00	NA	NA	340	NA
17861	Ptown	2022-10-08	03:18:02	15.22	7.93	NA	NA	340	NA
17862	Ptown	2022-10-08	03:33:02	14.91	7.72	NA	NA	340	NA
17863	Ptown	2022-10-08	03:48:02	14.39	7.45	NA	NA	340	NA
17864	Ptown	2022-10-08	04:03:02	12.85	7.75	NA	NA	340	NA
17865	Ptown	2022-10-08	04:18:02	11.86	7.79	NA	NA	340	NA
17866	Ptown	2022-10-08	04:33:02	11.39	7.78	NA	NA	340	NA
17867	Ptown	2022-10-08	04:48:02	11.22	7.79	NA	NA	340	NA
17868	Ptown	2022-10-08	05:03:02	11.13	7.80	NA	NA	340	NA
17869	Ptown	2022-10-08	05:18:02	11.37	7.52	NA	NA	340	NA
17870	Ptown	2022-10-08	05:33:02	12.85	7.44	NA	NA	340	NA
17871	Ptown	2022-10-08	05:48:02	13.43	7.58	NA	NA	340	NA
17872	Ptown	2022-10-08	06:03:02	14.05	7.84	NA	NA	340	NA
17873	Ptown	2022-10-08	06:18:02	14.41	7.98	NA	NA	340	NA
17874	Ptown	2022-10-08	06:33:02	14.48	7.97	NA	NA	340	NA
17875	Ptown	2022-10-08	06:48:02	14.46	7.97	NA	NA	340	NA
17876	Ptown	2022-10-08	07:03:02	14.41	7.95	NA	NA	340	NA
17877	Ptown	2022-10-08	07:18:02	14.39	7.94	NA	NA	340	NA
17878	Ptown	2022-10-08	07:33:02	14.34	7.94	NA	NA	340	NA
17879	Ptown	2022-10-08	07:48:02	14.36	7.94	NA	NA	340	NA
17880	Ptown	2022-10-08	08:03:02	14.41	7.94	NA	NA	340	NA
17881	Ptown	2022-10-08	08:18:02	14.46	7.94	NA	NA	340	NA
17882	Ptown	2022-10-08	08:33:02	14.48	7.94	NA	NA	340	NA
17883	Ptown	2022-10-08	08:48:02	14.46	7.95	NA	NA	340	NA
17884	Ptown	2022-10-08	09:03:02	14.46	7.93	NA	NA	340	NA
17885	Ptown	2022-10-08	09:18:02	14.46	7.94	NA	NA	340	NA
17886	Ptown	2022-10-08	09:33:02	14.46	7.95	NA	NA	340	NA
17887	Ptown	2022-10-08	09:48:02	14.46	7.94	NA	NA	340	NA
17888	Ptown	2022-10-08	10:03:02	14.46	7.96	NA	NA	340	NA
17889	Ptown	2022-10-08	10:18:02	14.46	7.99	NA	NA	340	NA
17890	Ptown	2022-10-08	10:33:02	14.48	7.98	NA	NA	340	NA
17891	Ptown	2022-10-08	10:48:02	14.51	7.97	NA	NA	340	NA
17892	Ptown	2022-10-08	11:03:02	14.51	7.99	NA	NA	340	NA
17893	Ptown	2022-10-08	11:18:02	14.55	7.99	NA	NA	340	NA

17894	Ptown	2022-10-08	11:33:02	14.55	7.98	NA	NA	340	NA
17895	Ptown	2022-10-08	11:48:02	14.58	8.00	NA	NA	340	NA
17896	Ptown	2022-10-08	12:03:02	14.60	7.99	NA	NA	340	NA
17897	Ptown	2022-10-08	12:18:02	14.62	7.97	NA	NA	340	NA
17898	Ptown	2022-10-08	12:33:02	14.67	7.97	NA	NA	340	NA
17899	Ptown	2022-10-08	12:48:02	14.70	7.95	NA	NA	340	NA
17900	Ptown	2022-10-08	13:03:02	14.72	7.98	NA	NA	340	NA
17901	Ptown	2022-10-08	13:18:02	14.74	7.99	NA	NA	340	NA
17902	Ptown	2022-10-08	13:33:02	14.77	7.98	NA	NA	340	NA
17903	Ptown	2022-10-08	13:48:02	14.77	7.98	NA	NA	340	NA
17904	Ptown	2022-10-08	14:03:02	14.77	7.98	NA	NA	340	NA
17905	Ptown	2022-10-08	14:18:02	14.82	7.97	NA	NA	340	NA
17906	Ptown	2022-10-08	14:33:02	14.86	7.98	NA	NA	340	NA
17907	Ptown	2022-10-08	14:48:02	14.96	7.99	NA	NA	340	NA
17908	Ptown	2022-10-08	15:03:02	15.06	8.01	NA	NA	340	NA
17909	Ptown	2022-10-08	15:18:02	15.17	8.04	NA	NA	340	NA
17910	Ptown	2022-10-08	15:33:02	15.32	8.07	NA	NA	340	NA
17911	Ptown	2022-10-08	15:48:02	15.82	8.17	NA	NA	340	NA
17912	Ptown	2022-10-08	16:03:02	15.89	8.21	NA	NA	340	NA
17913	Ptown	2022-10-08	16:18:02	14.27	8.00	NA	NA	340	NA
17914	Ptown	2022-10-08	16:33:02	12.19	8.03	NA	NA	340	NA
17915	Ptown	2022-10-08	16:48:02	11.76	8.02	NA	NA	340	NA
17916	Ptown	2022-10-08	17:03:02	11.39	7.95	NA	NA	340	NA
17917	Ptown	2022-10-08	17:18:02	11.10	8.00	NA	NA	340	NA
17918	Ptown	2022-10-08	17:33:02	10.91	8.01	NA	NA	340	NA
17919	Ptown	2022-10-08	17:48:02	14.15	8.59	NA	NA	340	NA
17920	Ptown	2022-10-08	18:03:02	14.96	8.28	NA	NA	340	NA
17921	Ptown	2022-10-08	18:18:02	15.10	8.16	NA	NA	340	NA
17922	Ptown	2022-10-08	18:33:02	15.06	8.14	NA	NA	340	NA
17923	Ptown	2022-10-08	18:48:02	14.98	8.10	NA	NA	340	NA
17924	Ptown	2022-10-08	19:03:02	14.91	8.09	NA	NA	340	NA
17925	Ptown	2022-10-08	19:18:02	14.82	8.09	NA	NA	340	NA
17926	Ptown	2022-10-08	19:33:02	14.72	8.08	NA	NA	340	NA
17927	Ptown	2022-10-08	19:48:02	14.70	8.08	NA	NA	340	NA
17928	Ptown	2022-10-08	20:03:02	14.65	8.08	NA	NA	340	NA
17929	Ptown	2022-10-08	20:18:02	14.62	8.07	NA	NA	340	NA
17930	Ptown	2022-10-08	20:33:02	14.62	8.07	NA	NA	340	NA
17931	Ptown	2022-10-08	20:48:02	14.58	8.06	NA	NA	340	NA
17932	Ptown	2022-10-08	21:03:02	14.55	8.06	NA	NA	340	NA
17933	Ptown	2022-10-08	21:18:02	14.55	8.07	NA	NA	340	NA
17934	Ptown	2022-10-08	21:33:02	14.55	8.06	NA	NA	340	NA

17935	Ptown	2022-10-08	21:48:02	14.58	8.06	NA	NA	340	NA
17936	Ptown	2022-10-08	22:03:02	14.55	8.05	NA	NA	340	NA
17937	Ptown	2022-10-08	22:18:02	14.53	8.05	NA	NA	340	NA
17938	Ptown	2022-10-08	22:33:02	14.48	8.05	NA	NA	340	NA
17939	Ptown	2022-10-08	22:48:02	14.46	8.05	NA	NA	340	NA
17940	Ptown	2022-10-08	23:03:02	14.43	8.04	NA	NA	340	NA
17941	Ptown	2022-10-08	23:18:02	14.43	8.04	NA	NA	340	NA
17942	Ptown	2022-10-08	23:33:02	14.43	8.04	NA	NA	340	NA
17943	Ptown	2022-10-08	23:48:02	14.43	8.04	NA	NA	340	NA
17944	Ptown	2022-10-09	00:03:02	14.43	8.03	NA	NA	340	NA
17945	Ptown	2022-10-09	00:18:02	14.39	8.04	NA	NA	340	NA
17946	Ptown	2022-10-09	00:33:02	14.31	8.05	NA	NA	340	NA
17947	Ptown	2022-10-09	00:48:02	14.31	8.07	NA	NA	340	NA
17948	Ptown	2022-10-09	01:03:02	14.29	8.07	NA	NA	340	NA
17949	Ptown	2022-10-09	01:18:02	14.27	8.07	NA	NA	340	NA
17950	Ptown	2022-10-09	01:33:02	14.24	8.08	NA	NA	340	NA
17951	Ptown	2022-10-09	01:48:02	14.24	8.07	NA	NA	340	NA
17952	Ptown	2022-10-09	02:03:02	14.22	8.08	NA	NA	340	NA
17953	Ptown	2022-10-09	02:18:02	14.17	8.08	NA	NA	340	NA
17954	Ptown	2022-10-09	02:33:02	14.17	8.07	NA	NA	340	NA
17955	Ptown	2022-10-09	02:48:02	14.15	8.07	NA	NA	340	NA
17956	Ptown	2022-10-09	03:03:02	14.07	8.06	NA	NA	340	NA
17957	Ptown	2022-10-09	03:18:02	13.98	8.05	NA	NA	340	NA
17958	Ptown	2022-10-09	03:33:02	13.83	8.05	NA	NA	340	NA
17959	Ptown	2022-10-09	03:48:02	13.64	8.04	NA	NA	340	NA
17960	Ptown	2022-10-09	04:03:02	13.09	7.82	NA	NA	340	NA
17961	Ptown	2022-10-09	04:18:02	12.70	7.62	NA	NA	340	NA
17962	Ptown	2022-10-09	04:33:02	11.59	7.84	NA	NA	340	NA
17963	Ptown	2022-10-09	04:48:02	9.51	7.85	NA	NA	340	NA
17964	Ptown	2022-10-09	05:03:02	8.59	7.87	NA	NA	340	NA
17965	Ptown	2022-10-09	05:18:02	8.34	7.87	NA	NA	340	NA
17966	Ptown	2022-10-09	05:33:02	8.17	7.87	NA	NA	340	NA
17967	Ptown	2022-10-09	05:48:02	8.00	7.86	NA	NA	340	NA
17968	Ptown	2022-10-09	06:03:02	7.87	7.85	NA	NA	340	NA
17969	Ptown	2022-10-09	06:18:02	8.97	7.42	NA	NA	340	NA
17970	Ptown	2022-10-09	06:33:02	10.49	7.49	NA	NA	340	NA
17971	Ptown	2022-10-09	06:48:02	11.39	7.81	NA	NA	340	NA
17972	Ptown	2022-10-09	07:03:02	11.61	7.84	NA	NA	340	NA
17973	Ptown	2022-10-09	07:18:02	11.81	7.87	NA	NA	340	NA
17974	Ptown	2022-10-09	07:33:02	12.75	7.99	NA	NA	340	NA
17975	Ptown	2022-10-09	07:48:02	13.06	8.04	NA	NA	340	NA

17976	Ptown	2022-10-09	08:03:02	13.28	8.07	NA	NA	340	NA
17977	Ptown	2022-10-09	08:18:02	13.50	8.11	NA	NA	340	NA
17978	Ptown	2022-10-09	08:33:02	13.57	8.12	NA	NA	340	NA
17979	Ptown	2022-10-09	08:48:02	13.71	8.08	NA	NA	340	NA
17980	Ptown	2022-10-09	09:03:02	13.83	8.06	NA	NA	340	NA
17981	Ptown	2022-10-09	09:18:02	13.93	8.04	NA	NA	340	NA
17982	Ptown	2022-10-09	09:33:02	14.03	8.04	NA	NA	340	NA
17983	Ptown	2022-10-09	09:48:02	14.12	8.04	NA	NA	340	NA
17984	Ptown	2022-10-09	10:03:02	14.17	8.04	NA	NA	340	NA
17985	Ptown	2022-10-09	10:18:02	14.17	8.04	NA	NA	340	NA
17986	Ptown	2022-10-09	10:33:02	14.15	8.04	NA	NA	340	NA
17987	Ptown	2022-10-09	10:48:02	14.12	8.04	NA	NA	340	NA
17988	Ptown	2022-10-09	11:03:02	14.17	8.05	NA	NA	340	NA
17989	Ptown	2022-10-09	11:18:02	14.22	8.05	NA	NA	340	NA
17990	Ptown	2022-10-09	11:33:02	14.24	8.06	NA	NA	340	NA
17991	Ptown	2022-10-09	11:48:02	14.27	8.06	NA	NA	340	NA
17992	Ptown	2022-10-09	12:03:02	14.34	8.07	NA	NA	340	NA
17993	Ptown	2022-10-09	12:18:02	14.43	8.08	NA	NA	340	NA
17994	Ptown	2022-10-09	12:33:02	14.53	8.08	NA	NA	340	NA
17995	Ptown	2022-10-09	12:48:02	14.62	8.09	NA	NA	340	NA
17996	Ptown	2022-10-09	13:03:02	14.72	8.10	NA	NA	340	NA
17997	Ptown	2022-10-09	13:18:02	14.77	8.10	NA	NA	340	NA
17998	Ptown	2022-10-09	13:33:02	14.84	8.11	NA	NA	340	NA
17999	Ptown	2022-10-09	13:48:02	14.89	8.11	NA	NA	340	NA
18000	Ptown	2022-10-09	14:03:02	14.94	8.12	NA	NA	340	NA
18001	Ptown	2022-10-09	14:18:02	14.96	8.12	NA	NA	340	NA
18002	Ptown	2022-10-09	14:33:02	15.01	8.13	NA	NA	340	NA
18003	Ptown	2022-10-09	14:48:02	15.03	8.13	NA	NA	340	NA
18004	Ptown	2022-10-09	15:03:02	15.06	8.13	NA	NA	340	NA
18005	Ptown	2022-10-09	15:18:02	15.03	8.12	NA	NA	340	NA
18006	Ptown	2022-10-09	15:33:02	14.84	8.10	NA	NA	340	NA
18007	Ptown	2022-10-09	15:48:02	14.72	8.10	NA	NA	340	NA
18008	Ptown	2022-10-09	16:03:02	14.65	8.12	NA	NA	340	NA
18009	Ptown	2022-10-09	16:18:02	14.72	8.12	NA	NA	340	NA
18010	Ptown	2022-10-09	16:33:02	14.74	8.10	NA	NA	340	NA
18011	Ptown	2022-10-09	16:48:02	14.46	8.21	NA	NA	340	NA
18012	Ptown	2022-10-09	17:03:02	12.73	8.02	NA	NA	340	NA
18013	Ptown	2022-10-09	17:18:02	12.17	8.00	NA	NA	340	NA
18014	Ptown	2022-10-09	17:33:02	11.95	7.99	NA	NA	340	NA
18015	Ptown	2022-10-09	17:48:02	11.78	7.93	NA	NA	340	NA
18016	Ptown	2022-10-09	18:03:02	11.73	7.95	NA	NA	340	NA

18017	Ptown	2022-10-09	18:18:02	11.76	7.97	NA	NA	340	NA
18018	Ptown	2022-10-09	18:33:02	11.54	7.96	NA	NA	340	NA
18019	Ptown	2022-10-09	18:48:02	11.81	7.86	NA	NA	340	NA
18020	Ptown	2022-10-09	19:03:02	12.73	8.19	NA	NA	340	NA
18021	Ptown	2022-10-09	19:18:02	13.21	8.17	NA	NA	340	NA
18022	Ptown	2022-10-09	19:33:02	13.62	8.17	NA	NA	340	NA
18023	Ptown	2022-10-09	19:48:02	13.91	8.17	NA	NA	340	NA
18024	Ptown	2022-10-09	20:03:02	14.24	8.13	NA	NA	340	NA
18025	Ptown	2022-10-09	20:18:02	14.34	8.10	NA	NA	340	NA
18026	Ptown	2022-10-09	20:33:02	14.39	8.09	NA	NA	340	NA
18027	Ptown	2022-10-09	20:48:02	14.43	8.10	NA	NA	340	NA
18028	Ptown	2022-10-09	21:03:02	14.51	8.12	NA	NA	340	NA
18029	Ptown	2022-10-09	21:18:02	14.51	8.11	NA	NA	340	NA
18030	Ptown	2022-10-09	21:33:02	14.43	8.13	NA	NA	340	NA
18031	Ptown	2022-10-09	21:48:02	14.41	8.13	NA	NA	340	NA
18032	Ptown	2022-10-09	22:03:02	14.43	8.12	NA	NA	340	NA
18033	Ptown	2022-10-09	22:18:02	14.46	8.11	NA	NA	340	NA
18034	Ptown	2022-10-09	22:33:02	14.48	8.10	NA	NA	340	NA
18035	Ptown	2022-10-09	22:48:02	14.48	8.09	NA	NA	340	NA
18036	Ptown	2022-10-09	23:03:02	14.46	8.08	NA	NA	340	NA
18037	Ptown	2022-10-09	23:18:02	14.43	8.07	NA	NA	340	NA
18038	Ptown	2022-10-09	23:33:02	14.43	8.07	NA	NA	340	NA
18039	Ptown	2022-10-09	23:48:02	14.41	8.07	NA	NA	340	NA
18040	Ptown	2022-10-10	00:03:02	14.43	8.06	NA	NA	340	NA
18041	Ptown	2022-10-10	00:18:02	14.43	8.06	NA	NA	340	NA
18042	Ptown	2022-10-10	00:33:02	14.36	8.06	NA	NA	340	NA
18043	Ptown	2022-10-10	00:48:02	14.34	8.06	NA	NA	340	NA
18044	Ptown	2022-10-10	01:03:02	14.29	8.06	NA	NA	340	NA
18045	Ptown	2022-10-10	01:18:02	14.24	8.06	NA	NA	340	NA
18046	Ptown	2022-10-10	01:33:02	14.10	8.06	NA	NA	340	NA
18047	Ptown	2022-10-10	01:48:02	14.05	8.06	NA	NA	340	NA
18048	Ptown	2022-10-10	02:03:02	14.00	8.06	NA	NA	340	NA
18049	Ptown	2022-10-10	02:18:02	13.95	8.06	NA	NA	340	NA
18050	Ptown	2022-10-10	02:33:02	13.95	8.06	NA	NA	340	NA
18051	Ptown	2022-10-10	02:48:02	13.95	8.05	NA	NA	340	NA
18052	Ptown	2022-10-10	03:03:02	13.93	8.05	NA	NA	340	NA
18053	Ptown	2022-10-10	03:18:02	13.93	8.05	NA	NA	340	NA
18054	Ptown	2022-10-10	03:33:02	13.91	8.05	NA	NA	340	NA
18055	Ptown	2022-10-10	03:48:02	13.86	8.06	NA	NA	340	NA
18056	Ptown	2022-10-10	04:03:02	13.81	8.06	NA	NA	340	NA
18057	Ptown	2022-10-10	04:18:02	13.79	8.07	NA	NA	340	NA

18058	Ptown	2022-10-10	04:33:02	13.74	8.05	NA	NA	340	NA
18059	Ptown	2022-10-10	04:48:02	13.62	8.01	NA	NA	340	NA
18060	Ptown	2022-10-10	05:03:02	13.45	7.96	NA	NA	340	NA
18061	Ptown	2022-10-10	05:18:02	13.28	7.90	NA	NA	340	NA
18062	Ptown	2022-10-10	05:33:02	12.27	7.87	NA	NA	340	NA
18063	Ptown	2022-10-10	05:48:02	10.74	7.88	NA	NA	340	NA
18064	Ptown	2022-10-10	06:03:02	10.27	7.88	NA	NA	340	NA
18065	Ptown	2022-10-10	06:18:02	10.25	7.88	NA	NA	340	NA
18066	Ptown	2022-10-10	06:33:02	9.93	7.88	NA	NA	340	NA
18067	Ptown	2022-10-10	06:48:02	10.20	7.63	NA	NA	340	NA
18068	Ptown	2022-10-10	07:03:02	11.90	7.45	NA	NA	340	NA
18069	Ptown	2022-10-10	07:18:02	12.77	7.84	NA	NA	340	NA
18070	Ptown	2022-10-10	07:33:02	13.11	7.95	NA	NA	340	NA
18071	Ptown	2022-10-10	07:48:02	13.26	7.99	NA	NA	340	NA
18072	Ptown	2022-10-10	08:03:02	13.45	8.04	NA	NA	340	NA
18073	Ptown	2022-10-10	08:18:02	13.55	8.06	NA	NA	340	NA
18074	Ptown	2022-10-10	08:33:02	13.62	8.05	NA	NA	340	NA
18075	Ptown	2022-10-10	08:48:02	13.67	8.05	NA	NA	340	NA
18076	Ptown	2022-10-10	09:03:02	13.74	8.05	NA	NA	340	NA
18077	Ptown	2022-10-10	09:18:02	13.81	8.05	NA	NA	340	NA
18078	Ptown	2022-10-10	09:33:02	13.88	8.05	NA	NA	340	NA
18079	Ptown	2022-10-10	09:48:02	13.95	8.05	NA	NA	340	NA
18080	Ptown	2022-10-10	10:03:02	14.05	8.06	NA	NA	340	NA
18081	Ptown	2022-10-10	10:18:02	14.12	8.05	NA	NA	340	NA
18082	Ptown	2022-10-10	10:33:02	14.17	8.06	NA	NA	340	NA
18083	Ptown	2022-10-10	10:48:02	14.15	8.06	NA	NA	340	NA
18084	Ptown	2022-10-10	11:03:02	14.17	8.07	NA	NA	340	NA
18085	Ptown	2022-10-10	11:18:02	14.17	8.08	NA	NA	340	NA
18086	Ptown	2022-10-10	11:33:02	14.17	8.09	NA	NA	340	NA
18087	Ptown	2022-10-10	11:48:02	14.22	8.08	NA	NA	340	NA
18088	Ptown	2022-10-10	12:03:02	14.31	8.09	NA	NA	340	NA
18089	Ptown	2022-10-10	12:18:02	14.39	8.08	NA	NA	340	NA
18090	Ptown	2022-10-10	12:33:02	14.51	8.08	NA	NA	340	NA
18091	Ptown	2022-10-10	12:48:02	14.58	8.08	NA	NA	340	NA
18092	Ptown	2022-10-10	13:03:02	14.60	8.08	NA	NA	340	NA
18093	Ptown	2022-10-10	13:18:02	14.62	8.08	NA	NA	340	NA
18094	Ptown	2022-10-10	13:33:02	14.60	8.08	NA	NA	340	NA
18095	Ptown	2022-10-10	13:48:02	14.53	8.10	NA	NA	340	NA
18096	Ptown	2022-10-10	14:03:02	14.46	8.10	NA	NA	340	NA
18097	Ptown	2022-10-10	14:18:02	14.43	8.11	NA	NA	340	NA
18098	Ptown	2022-10-10	14:33:02	14.41	8.12	NA	NA	340	NA

18099	Ptown	2022-10-10	14:48:02	14.34	8.13	NA	NA	340	NA
18100	Ptown	2022-10-10	15:03:02	14.29	8.12	NA	NA	340	NA
18101	Ptown	2022-10-10	15:18:02	14.24	8.09	NA	NA	340	NA
18102	Ptown	2022-10-10	15:33:02	14.29	8.09	NA	NA	340	NA
18103	Ptown	2022-10-10	15:48:02	14.51	8.01	NA	NA	340	NA
18104	Ptown	2022-10-10	16:03:02	14.55	8.01	NA	NA	340	NA
18105	Ptown	2022-10-10	16:18:02	14.58	8.06	NA	NA	340	NA
18106	Ptown	2022-10-10	16:33:02	14.67	8.05	NA	NA	340	NA
18107	Ptown	2022-10-10	16:48:02	14.91	7.94	NA	NA	340	NA
18108	Ptown	2022-10-10	17:03:02	14.91	8.02	NA	NA	340	NA
18109	Ptown	2022-10-10	17:18:02	14.79	8.07	NA	NA	340	NA
18110	Ptown	2022-10-10	17:33:02	14.77	8.07	NA	NA	340	NA
18111	Ptown	2022-10-10	17:48:02	14.34	8.10	NA	NA	340	NA
18112	Ptown	2022-10-10	18:03:02	13.71	7.96	NA	NA	340	NA
18113	Ptown	2022-10-10	18:18:02	13.50	7.94	NA	NA	340	NA
18114	Ptown	2022-10-10	18:33:02	12.97	7.90	NA	NA	340	NA
18115	Ptown	2022-10-10	18:48:02	12.51	7.88	NA	NA	340	NA
18116	Ptown	2022-10-10	19:03:02	12.24	7.90	NA	NA	340	NA
18117	Ptown	2022-10-10	19:18:02	12.12	7.90	NA	NA	340	NA
18118	Ptown	2022-10-10	19:33:02	12.97	7.72	NA	NA	340	NA
18119	Ptown	2022-10-10	19:48:02	13.21	7.90	NA	NA	340	NA
18120	Ptown	2022-10-10	20:03:02	13.88	8.02	NA	NA	340	NA
18121	Ptown	2022-10-10	20:18:02	13.83	8.00	NA	NA	340	NA
18122	Ptown	2022-10-10	20:33:02	14.00	8.01	NA	NA	340	NA
18123	Ptown	2022-10-10	20:48:02	14.15	8.03	NA	NA	340	NA
18124	Ptown	2022-10-10	21:03:02	14.15	8.03	NA	NA	340	NA
18125	Ptown	2022-10-10	21:18:02	14.15	8.03	NA	NA	340	NA
18126	Ptown	2022-10-10	21:33:02	14.15	8.02	NA	NA	340	NA
18127	Ptown	2022-10-10	21:48:02	14.17	8.01	NA	NA	340	NA
18128	Ptown	2022-10-10	22:03:02	14.27	8.03	NA	NA	340	NA
18129	Ptown	2022-10-10	22:18:02	14.31	8.02	NA	NA	340	NA
18130	Ptown	2022-10-10	22:33:02	14.31	8.02	NA	NA	340	NA
18131	Ptown	2022-10-10	22:48:02	14.34	8.03	NA	NA	340	NA
18132	Ptown	2022-10-10	23:03:02	14.34	8.01	NA	NA	340	NA
18133	Ptown	2022-10-10	23:18:02	14.34	8.00	NA	NA	340	NA
18134	Ptown	2022-10-10	23:33:02	14.34	7.99	NA	NA	340	NA
18135	Ptown	2022-10-10	23:48:02	14.36	7.98	NA	NA	340	NA
18136	Ptown	2022-10-11	00:03:02	14.34	7.98	NA	NA	340	NA
18137	Ptown	2022-10-11	00:18:02	14.36	7.98	NA	NA	340	NA
18138	Ptown	2022-10-11	00:33:02	14.36	7.97	NA	NA	340	NA
18139	Ptown	2022-10-11	00:48:02	14.34	7.99	NA	NA	340	NA

18140	Ptown	2022-10-11	01:03:02	14.34	7.96	NA	NA	340	NA
18141	Ptown	2022-10-11	01:18:02	14.36	7.97	NA	NA	340	NA
18142	Ptown	2022-10-11	01:33:02	14.36	7.99	NA	NA	340	NA
18143	Ptown	2022-10-11	01:48:02	14.36	8.00	NA	NA	340	NA
18144	Ptown	2022-10-11	02:03:02	14.31	8.01	NA	NA	340	NA
18145	Ptown	2022-10-11	02:18:02	14.31	8.02	NA	NA	340	NA
18146	Ptown	2022-10-11	02:33:02	14.19	8.02	NA	NA	340	NA
18147	Ptown	2022-10-11	02:48:02	14.03	8.02	NA	NA	340	NA
18148	Ptown	2022-10-11	03:03:02	13.91	8.02	NA	NA	340	NA
18149	Ptown	2022-10-11	03:18:02	13.93	8.03	NA	NA	340	NA
18150	Ptown	2022-10-11	03:33:02	14.00	8.02	NA	NA	340	NA
18151	Ptown	2022-10-11	03:48:02	13.93	8.01	NA	NA	340	NA
18152	Ptown	2022-10-11	04:03:02	13.88	8.00	NA	NA	340	NA
18153	Ptown	2022-10-11	04:18:02	13.81	8.02	NA	NA	340	NA
18154	Ptown	2022-10-11	04:33:02	13.74	8.02	NA	NA	340	NA
18155	Ptown	2022-10-11	04:48:02	13.64	8.01	NA	NA	340	NA
18156	Ptown	2022-10-11	05:03:02	13.55	7.99	NA	NA	340	NA
18157	Ptown	2022-10-11	05:18:02	13.52	7.98	NA	NA	340	NA
18158	Ptown	2022-10-11	05:33:02	13.52	7.95	NA	NA	340	NA
18159	Ptown	2022-10-11	05:48:02	13.43	7.92	NA	NA	340	NA
18160	Ptown	2022-10-11	06:03:02	13.26	7.87	NA	NA	340	NA
18161	Ptown	2022-10-11	06:18:02	11.90	7.82	NA	NA	340	NA
18162	Ptown	2022-10-11	06:33:02	10.66	7.85	NA	NA	340	NA
18163	Ptown	2022-10-11	06:48:02	10.25	7.86	NA	NA	340	NA
18164	Ptown	2022-10-11	07:03:02	10.47	7.88	NA	NA	340	NA
18165	Ptown	2022-10-11	07:18:02	10.96	7.88	NA	NA	340	NA
18166	Ptown	2022-10-11	07:33:02	11.71	7.49	NA	NA	340	NA
18167	Ptown	2022-10-11	07:48:02	12.10	7.59	NA	NA	340	NA
18168	Ptown	2022-10-11	08:03:02	12.73	7.82	NA	NA	340	NA
18169	Ptown	2022-10-11	08:18:02	13.04	7.93	NA	NA	340	NA
18170	Ptown	2022-10-11	08:33:02	13.31	8.00	NA	NA	340	NA
18171	Ptown	2022-10-11	08:48:02	13.35	7.98	NA	NA	340	NA
18172	Ptown	2022-10-11	09:03:02	13.50	7.98	NA	NA	340	NA
18173	Ptown	2022-10-11	09:18:02	13.76	8.02	NA	NA	340	NA
18174	Ptown	2022-10-11	09:33:02	13.93	8.00	NA	NA	340	NA
18175	Ptown	2022-10-11	09:48:02	14.00	7.98	NA	NA	340	NA
18176	Ptown	2022-10-11	10:03:02	14.03	7.99	NA	NA	340	NA
18177	Ptown	2022-10-11	10:18:02	13.91	8.00	NA	NA	340	NA
18178	Ptown	2022-10-11	10:33:02	13.95	8.04	NA	NA	340	NA
18179	Ptown	2022-10-11	10:48:02	13.98	8.05	NA	NA	340	NA
18180	Ptown	2022-10-11	11:03:02	13.95	8.05	NA	NA	340	NA

18181	Ptown	2022-10-11	11:18:02	13.98	8.06	NA	NA	340	NA
18182	Ptown	2022-10-11	11:33:02	14.03	8.05	NA	NA	340	NA
18183	Ptown	2022-10-11	11:48:02	14.07	8.06	NA	NA	340	NA
18184	Ptown	2022-10-12	10:03:02	14.48	8.08	NA	NA	340	NA
18185	Ptown	2022-10-12	10:18:02	14.53	8.08	NA	NA	340	NA
18186	Ptown	2022-10-12	10:33:02	14.62	8.10	NA	NA	340	NA
18187	Ptown	2022-10-12	10:48:02	14.72	8.10	NA	NA	340	NA
18188	Ptown	2022-10-12	11:03:02	14.79	8.10	NA	NA	340	NA
18189	Ptown	2022-10-12	11:18:02	14.82	8.12	NA	NA	340	NA
18190	Ptown	2022-10-12	11:33:02	14.91	8.11	NA	NA	340	NA
18191	Ptown	2022-10-12	11:48:02	14.98	8.11	NA	NA	340	NA
18192	Ptown	2022-10-12	12:03:02	15.03	8.11	NA	NA	340	NA
18193	Ptown	2022-10-12	12:18:02	15.13	8.11	NA	NA	340	NA
18194	Ptown	2022-10-12	12:33:02	15.17	8.12	NA	NA	340	NA
18195	Ptown	2022-10-12	12:48:02	15.27	8.11	NA	NA	340	NA
18196	Ptown	2022-10-12	13:03:02	15.37	8.09	NA	NA	340	NA
18197	Ptown	2022-10-12	13:18:02	15.37	8.12	NA	NA	340	NA
18198	Ptown	2022-10-12	13:33:02	15.34	8.12	NA	NA	340	NA
18199	Ptown	2022-10-12	13:48:02	15.41	8.10	NA	NA	340	NA
18200	Ptown	2022-10-12	14:03:02	15.41	8.10	NA	NA	340	NA
18201	Ptown	2022-10-12	14:18:02	15.44	8.11	NA	NA	340	NA
18202	Ptown	2022-10-12	14:33:02	15.51	8.09	NA	NA	340	NA
18203	Ptown	2022-10-12	14:48:02	15.56	8.08	NA	NA	340	NA
18204	Ptown	2022-10-12	15:03:02	15.58	8.08	NA	NA	340	NA
18205	Ptown	2022-10-12	15:18:02	15.60	8.10	NA	NA	340	NA
18206	Ptown	2022-10-12	15:33:02	15.65	8.11	NA	NA	340	NA
18207	Ptown	2022-10-12	15:48:02	15.68	8.12	NA	NA	340	NA
18208	Ptown	2022-10-12	16:03:02	15.68	8.11	NA	NA	340	NA
18209	Ptown	2022-10-12	16:18:02	15.63	8.14	NA	NA	340	NA
18210	Ptown	2022-10-12	16:33:02	15.70	8.14	NA	NA	340	NA
18211	Ptown	2022-10-12	16:48:02	15.75	8.14	NA	NA	340	NA
18212	Ptown	2022-10-12	17:03:02	15.77	8.14	NA	NA	340	NA
18213	Ptown	2022-10-12	17:18:02	15.75	8.14	NA	NA	340	NA
18214	Ptown	2022-10-12	17:33:02	15.75	8.14	NA	NA	340	NA
18215	Ptown	2022-10-12	17:48:02	15.77	8.13	NA	NA	340	NA
18216	Ptown	2022-10-12	18:03:02	16.13	8.12	NA	NA	340	NA
18217	Ptown	2022-10-12	18:18:02	15.87	8.12	NA	NA	340	NA
18218	Ptown	2022-10-12	18:33:02	15.65	8.14	NA	NA	340	NA
18219	Ptown	2022-10-12	18:48:02	15.58	8.13	NA	NA	340	NA
18220	Ptown	2022-10-12	19:03:02	15.41	8.10	NA	NA	340	NA
18221	Ptown	2022-10-12	19:18:02	15.22	8.02	NA	NA	340	NA

18222	Ptown	2022-10-12	19:33:02	14.96	7.96	NA	NA	340	NA
18223	Ptown	2022-10-12	19:48:02	14.74	7.95	NA	NA	340	NA
18224	Ptown	2022-10-12	20:03:02	14.53	7.94	NA	NA	340	NA
18225	Ptown	2022-10-12	20:18:02	14.41	7.94	NA	NA	340	NA
18226	Ptown	2022-10-12	20:33:02	14.34	7.58	NA	NA	340	NA
18227	Ptown	2022-10-12	20:48:02	14.31	7.78	NA	NA	340	NA
18228	Ptown	2022-10-12	21:03:02	14.84	7.95	NA	NA	340	NA
18229	Ptown	2022-10-12	21:18:02	15.13	8.01	NA	NA	340	NA
18230	Ptown	2022-10-12	21:33:02	15.10	8.00	NA	NA	340	NA
18231	Ptown	2022-10-12	21:48:02	15.27	8.07	NA	NA	340	NA
18232	Ptown	2022-10-12	22:03:02	15.29	8.06	NA	NA	340	NA
18233	Ptown	2022-10-12	22:18:02	15.32	8.07	NA	NA	340	NA
18234	Ptown	2022-10-12	22:33:02	15.34	8.07	NA	NA	340	NA
18235	Ptown	2022-10-12	22:48:02	15.32	8.08	NA	NA	340	NA
18236	Ptown	2022-10-12	23:03:02	15.39	8.07	NA	NA	340	NA
18237	Ptown	2022-10-12	23:18:02	15.46	8.06	NA	NA	340	NA
18238	Ptown	2022-10-12	23:33:02	15.49	8.05	NA	NA	340	NA
18239	Ptown	2022-10-12	23:48:02	15.49	8.04	NA	NA	340	NA
18240	Ptown	2022-10-13	00:03:02	15.46	8.04	NA	NA	340	NA
18241	Ptown	2022-10-13	00:18:02	15.46	8.05	NA	NA	340	NA
18242	Ptown	2022-10-13	00:33:02	15.44	8.07	NA	NA	340	NA
18243	Ptown	2022-10-13	00:48:02	15.41	8.07	NA	NA	340	NA
18244	Ptown	2022-10-13	01:03:02	15.46	8.07	NA	NA	340	NA
18245	Ptown	2022-10-13	01:18:02	15.41	8.08	NA	NA	340	NA
18246	Ptown	2022-10-13	01:33:02	15.34	8.08	NA	NA	340	NA
18247	Ptown	2022-10-13	01:48:02	15.34	8.08	NA	NA	340	NA
18248	Ptown	2022-10-13	02:03:02	15.27	8.08	NA	NA	340	NA
18249	Ptown	2022-10-13	02:18:02	15.27	8.08	NA	NA	340	NA
18250	Ptown	2022-10-13	02:33:02	15.20	8.06	NA	NA	340	NA
18251	Ptown	2022-10-13	02:48:02	15.17	8.05	NA	NA	340	NA
18252	Ptown	2022-10-13	03:03:02	15.13	8.04	NA	NA	340	NA
18253	Ptown	2022-10-13	03:18:02	15.08	8.02	NA	NA	340	NA
18254	Ptown	2022-10-13	03:33:02	15.15	8.01	NA	NA	340	NA
18255	Ptown	2022-10-13	03:48:02	15.20	8.00	NA	NA	340	NA
18256	Ptown	2022-10-13	04:03:02	15.20	8.00	NA	NA	340	NA
18257	Ptown	2022-10-13	04:18:02	15.15	8.00	NA	NA	340	NA
18258	Ptown	2022-10-13	04:33:02	15.15	7.99	NA	NA	340	NA
18259	Ptown	2022-10-13	04:48:02	15.13	7.99	NA	NA	340	NA
18260	Ptown	2022-10-13	05:03:02	15.10	7.99	NA	NA	340	NA
18261	Ptown	2022-10-13	05:18:02	15.10	7.99	NA	NA	340	NA
18262	Ptown	2022-10-13	05:33:02	15.15	7.99	NA	NA	340	NA

18263	Ptown	2022-10-13	05:48:02	15.17	7.98	NA	NA	340	NA
18264	Ptown	2022-10-13	06:03:02	15.15	7.97	NA	NA	340	NA
18265	Ptown	2022-10-13	06:18:02	15.13	7.95	NA	NA	340	NA
18266	Ptown	2022-10-13	06:33:02	15.13	7.94	NA	NA	340	NA
18267	Ptown	2022-10-13	06:48:02	15.10	7.94	NA	NA	340	NA
18268	Ptown	2022-10-13	07:03:02	15.08	7.94	NA	NA	340	NA
18269	Ptown	2022-10-13	07:18:02	15.06	7.93	NA	NA	340	NA
18270	Ptown	2022-10-13	07:33:02	15.03	7.93	NA	NA	340	NA
18271	Ptown	2022-10-13	07:48:02	14.96	7.88	NA	NA	340	NA
18272	Ptown	2022-10-13	08:03:02	14.96	7.87	NA	NA	340	NA
18273	Ptown	2022-10-13	08:18:02	15.10	7.92	NA	NA	340	NA
18274	Ptown	2022-10-13	08:33:02	15.15	7.92	NA	NA	340	NA
18275	Ptown	2022-10-13	08:48:02	15.25	7.95	NA	NA	340	NA
18276	Ptown	2022-10-13	09:03:02	15.32	7.97	NA	NA	340	NA
18277	Ptown	2022-10-13	09:18:02	15.39	7.98	NA	NA	340	NA
18278	Ptown	2022-10-13	09:33:02	15.44	8.00	NA	NA	340	NA
18279	Ptown	2022-10-13	09:48:02	15.51	8.02	NA	NA	340	NA
18280	Ptown	2022-10-13	10:03:02	15.56	8.03	NA	NA	340	NA
18281	Ptown	2022-10-13	10:18:02	15.60	8.05	NA	NA	340	NA
18282	Ptown	2022-10-13	10:33:02	15.60	8.04	NA	NA	340	NA
18283	Ptown	2022-10-13	10:48:02	15.60	8.04	NA	NA	340	NA
18284	Ptown	2022-10-13	11:03:02	15.60	8.04	NA	NA	340	NA
18285	Ptown	2022-10-13	11:18:02	15.60	8.03	NA	NA	340	NA
18286	Ptown	2022-10-13	11:33:02	15.58	8.03	NA	NA	340	NA
18287	Ptown	2022-10-13	11:48:02	15.63	8.04	NA	NA	340	NA
18288	Ptown	2022-10-13	12:03:02	15.68	8.04	NA	NA	340	NA
18289	Ptown	2022-10-13	12:18:02	15.75	8.05	NA	NA	340	NA
18290	Ptown	2022-10-13	12:33:02	15.80	8.05	NA	NA	340	NA
18291	Ptown	2022-10-13	12:48:02	15.84	8.05	NA	NA	340	NA
18292	Ptown	2022-10-13	13:03:02	15.87	8.06	NA	NA	340	NA
18293	Ptown	2022-10-13	13:18:02	15.94	8.06	NA	NA	340	NA
18294	Ptown	2022-10-13	13:33:02	15.96	8.06	NA	NA	340	NA
18295	Ptown	2022-10-13	13:48:02	15.96	8.07	NA	NA	340	NA
18296	Ptown	2022-10-13	14:03:02	15.99	8.07	NA	NA	340	NA
18297	Ptown	2022-10-13	14:18:02	15.99	8.07	NA	NA	340	NA
18298	Ptown	2022-10-13	14:33:02	15.99	8.07	NA	NA	340	NA
18299	Ptown	2022-10-13	14:48:02	15.96	8.07	NA	NA	340	NA
18300	Ptown	2022-10-13	15:03:02	15.96	8.07	NA	NA	340	NA
18301	Ptown	2022-10-13	15:18:02	15.96	8.06	NA	NA	340	NA
18302	Ptown	2022-10-13	15:33:02	15.94	8.06	NA	NA	340	NA
18303	Ptown	2022-10-13	15:48:02	15.91	8.06	NA	NA	340	NA

18304	Ptown	2022-10-13	16:03:02	15.89	8.06	NA	NA	340	NA
18305	Ptown	2022-10-13	16:18:02	15.89	8.06	NA	NA	340	NA
18306	Ptown	2022-10-13	16:33:02	15.89	8.04	NA	NA	340	NA
18307	Ptown	2022-10-13	16:48:02	15.89	8.04	NA	NA	340	NA
18308	Ptown	2022-10-13	17:03:02	15.89	8.04	NA	NA	340	NA
18309	Ptown	2022-10-13	17:18:02	15.91	8.04	NA	NA	340	NA
18310	Ptown	2022-10-13	17:33:02	15.91	8.03	NA	NA	340	NA
18311	Ptown	2022-10-13	17:48:02	15.89	8.03	NA	NA	340	NA
18312	Ptown	2022-10-13	18:03:02	15.89	8.03	NA	NA	340	NA
18313	Ptown	2022-10-13	18:18:02	15.87	8.03	NA	NA	340	NA
18314	Ptown	2022-10-13	18:33:02	15.87	8.03	NA	NA	340	NA
18315	Ptown	2022-10-13	18:48:02	15.87	8.02	NA	NA	340	NA
18316	Ptown	2022-10-13	19:03:02	15.87	8.01	NA	NA	340	NA
18317	Ptown	2022-10-13	19:18:02	15.91	7.98	NA	NA	340	NA
18318	Ptown	2022-10-13	19:33:02	15.94	7.96	NA	NA	340	NA
18319	Ptown	2022-10-13	19:48:02	15.96	7.92	NA	NA	340	NA
18320	Ptown	2022-10-13	20:03:02	15.99	7.90	NA	NA	340	NA
18321	Ptown	2022-10-13	20:18:02	16.06	7.88	NA	NA	340	NA
18322	Ptown	2022-10-13	20:33:02	16.08	7.82	NA	NA	340	NA
18323	Ptown	2022-10-13	20:48:02	16.13	7.79	NA	NA	340	NA
18324	Ptown	2022-10-13	21:03:02	16.13	7.82	NA	NA	340	NA
18325	Ptown	2022-10-13	21:18:02	16.13	7.88	NA	NA	340	NA
18326	Ptown	2022-10-13	21:33:02	16.13	7.88	NA	NA	340	NA
18327	Ptown	2022-10-13	21:48:02	16.13	7.89	NA	NA	340	NA
18328	Ptown	2022-10-13	22:03:02	16.11	7.91	NA	NA	340	NA
18329	Ptown	2022-10-13	22:18:02	16.13	7.91	NA	NA	340	NA
18330	Ptown	2022-10-13	22:33:02	16.13	7.91	NA	NA	340	NA
18331	Ptown	2022-10-13	22:48:02	16.15	7.91	NA	NA	340	NA
18332	Ptown	2022-10-13	23:03:02	16.15	7.91	NA	NA	340	NA
18333	Ptown	2022-10-13	23:18:02	16.11	7.96	NA	NA	340	NA
18334	Ptown	2022-10-13	23:33:02	16.08	7.97	NA	NA	340	NA
18335	Ptown	2022-10-13	23:48:02	16.08	7.99	NA	NA	340	NA
18336	Ptown	2022-10-14	00:03:02	16.11	8.00	NA	NA	340	NA
18337	Ptown	2022-10-14	00:18:02	16.11	8.01	NA	NA	340	NA
18338	Ptown	2022-10-14	00:33:02	16.11	8.01	NA	NA	340	NA
18339	Ptown	2022-10-14	00:48:02	16.08	8.00	NA	NA	340	NA
18340	Ptown	2022-10-14	01:03:02	16.08	8.00	NA	NA	340	NA
18341	Ptown	2022-10-14	01:18:02	16.03	8.00	NA	NA	340	NA
18342	Ptown	2022-10-14	01:33:02	16.03	7.99	NA	NA	340	NA
18343	Ptown	2022-10-14	01:48:02	16.03	7.99	NA	NA	340	NA
18344	Ptown	2022-10-14	02:03:02	16.03	7.99	NA	NA	340	NA

18345	Ptown	2022-10-14	02:18:02	16.06	7.99	NA	NA	340	NA
18346	Ptown	2022-10-14	02:33:02	16.06	7.99	NA	NA	340	NA
18347	Ptown	2022-10-14	02:48:02	16.06	7.99	NA	NA	340	NA
18348	Ptown	2022-10-14	03:03:02	16.08	7.99	NA	NA	340	NA
18349	Ptown	2022-10-14	03:18:02	16.08	7.99	NA	NA	340	NA
18350	Ptown	2022-10-14	03:33:02	16.11	7.99	NA	NA	340	NA
18351	Ptown	2022-10-14	03:48:02	16.11	7.99	NA	NA	340	NA
18352	Ptown	2022-10-14	04:03:02	16.11	7.99	NA	NA	340	NA
18353	Ptown	2022-10-14	04:18:02	16.13	7.98	NA	NA	340	NA
18354	Ptown	2022-10-14	04:33:02	16.15	7.98	NA	NA	340	NA
18355	Ptown	2022-10-14	04:48:02	16.18	7.98	NA	NA	340	NA
18356	Ptown	2022-10-14	05:03:02	16.20	7.99	NA	NA	340	NA
18357	Ptown	2022-10-14	05:18:02	16.22	8.00	NA	NA	340	NA
18358	Ptown	2022-10-14	05:33:02	16.25	7.99	NA	NA	340	NA
18359	Ptown	2022-10-14	05:48:02	16.25	7.99	NA	NA	340	NA
18360	Ptown	2022-10-14	06:03:02	16.22	7.99	NA	NA	340	NA
18361	Ptown	2022-10-14	06:18:02	16.22	7.98	NA	NA	340	NA
18362	Ptown	2022-10-14	06:33:02	16.25	7.98	NA	NA	340	NA
18363	Ptown	2022-10-14	06:48:02	16.27	7.97	NA	NA	340	NA
18364	Ptown	2022-10-14	07:03:02	16.30	7.96	NA	NA	340	NA
18365	Ptown	2022-10-14	07:18:02	16.30	7.96	NA	NA	340	NA
18366	Ptown	2022-10-14	07:33:02	16.37	7.95	NA	NA	340	NA
18367	Ptown	2022-10-14	07:48:02	16.44	7.94	NA	NA	340	NA
18368	Ptown	2022-10-14	08:03:02	16.46	7.93	NA	NA	340	NA
18369	Ptown	2022-10-14	08:18:02	16.51	7.93	NA	NA	340	NA
18370	Ptown	2022-10-14	08:33:02	16.61	7.91	NA	NA	340	NA
18371	Ptown	2022-10-14	08:48:02	16.56	7.93	NA	NA	340	NA
18372	Ptown	2022-10-14	09:03:02	16.72	7.90	NA	NA	340	NA
18373	Ptown	2022-10-14	09:18:02	16.77	7.89	NA	NA	340	NA
18374	Ptown	2022-10-14	09:33:02	16.82	7.86	NA	NA	340	NA
18375	Ptown	2022-10-14	09:48:02	16.68	7.93	NA	NA	340	NA
18376	Ptown	2022-10-14	10:03:02	16.68	7.94	NA	NA	340	NA
18377	Ptown	2022-10-14	10:18:02	16.68	7.94	NA	NA	340	NA
18378	Ptown	2022-10-14	10:33:02	16.72	7.95	NA	NA	340	NA
18379	Ptown	2022-10-14	10:48:02	16.70	7.95	NA	NA	340	NA
18380	Ptown	2022-10-14	11:03:02	16.70	7.95	NA	NA	340	NA
18381	Ptown	2022-10-14	11:18:02	16.72	7.95	NA	NA	340	NA
18382	Ptown	2022-10-14	11:33:02	16.70	7.95	NA	NA	340	NA
18383	Ptown	2022-10-14	11:48:02	16.70	7.96	NA	NA	340	NA
18384	Ptown	2022-10-14	12:03:02	16.65	7.96	NA	NA	340	NA
18385	Ptown	2022-10-14	12:18:02	16.56	7.96	NA	NA	340	NA

18386	Ptown	2022-10-14	12:33:02	16.61	7.96	NA	NA	340	NA
18387	Ptown	2022-10-14	12:48:02	16.53	7.97	NA	NA	340	NA
18388	Ptown	2022-10-14	13:03:02	16.51	7.97	NA	NA	340	NA
18389	Ptown	2022-10-14	13:18:02	16.51	7.97	NA	NA	340	NA
18390	Ptown	2022-10-14	13:33:02	16.53	7.98	NA	NA	340	NA
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18392	Ptown	2022-10-14	14:03:02	16.56	7.98	NA	NA	340	NA
18393	Ptown	2022-10-14	14:18:02	16.56	7.98	NA	NA	340	NA
18394	Ptown	2022-10-14	14:33:02	16.56	7.98	NA	NA	340	NA
18395	Ptown	2022-10-14	14:48:02	16.58	7.98	NA	NA	340	NA
18396	Ptown	2022-10-14	15:03:02	16.61	7.99	NA	NA	340	NA
18397	Ptown	2022-10-14	15:18:02	16.63	7.99	NA	NA	340	NA
18398	Ptown	2022-10-14	15:33:02	16.63	7.99	NA	NA	340	NA
18399	Ptown	2022-10-14	15:48:02	16.65	7.99	NA	NA	340	NA
18400	Ptown	2022-10-14	16:03:02	16.65	7.99	NA	NA	340	NA
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18403	Ptown	2022-10-14	16:48:02	16.65	7.99	NA	NA	340	NA
18404	Ptown	2022-10-14	17:03:02	16.68	7.99	NA	NA	340	NA
18405	Ptown	2022-10-14	17:18:02	16.70	7.98	NA	NA	340	NA
18406	Ptown	2022-10-14	17:33:02	16.70	7.98	NA	NA	340	NA
18407	Ptown	2022-10-14	17:48:02	16.70	7.98	NA	NA	340	NA
18408	Ptown	2022-10-14	18:03:02	16.72	7.98	NA	NA	340	NA
18409	Ptown	2022-10-14	18:18:02	16.72	7.97	NA	NA	340	NA
18410	Ptown	2022-10-14	18:33:02	16.72	7.96	NA	NA	340	NA
18411	Ptown	2022-10-14	18:48:02	16.70	7.96	NA	NA	340	NA
18412	Ptown	2022-10-14	19:03:02	16.70	7.95	NA	NA	340	NA
18413	Ptown	2022-10-14	19:18:02	16.70	7.95	NA	NA	340	NA
18414	Ptown	2022-10-14	19:33:02	16.72	7.95	NA	NA	340	NA
18415	Ptown	2022-10-14	19:48:02	16.72	7.94	NA	NA	340	NA
18416	Ptown	2022-10-14	20:03:02	16.75	7.93	NA	NA	340	NA
18417	Ptown	2022-10-14	20:18:02	16.75	7.91	NA	NA	340	NA
18418	Ptown	2022-10-14	20:33:02	16.80	7.88	NA	NA	340	NA
18419	Ptown	2022-10-14	20:48:02	16.82	7.86	NA	NA	340	NA
18420	Ptown	2022-10-14	21:03:02	16.80	7.84	NA	NA	340	NA
18421	Ptown	2022-10-14	21:18:02	16.75	7.84	NA	NA	340	NA
18422	Ptown	2022-10-14	21:33:02	16.70	7.81	NA	NA	340	NA
18423	Ptown	2022-10-14	21:48:02	16.30	7.49	NA	NA	340	NA
18424	Ptown	2022-10-14	22:03:02	16.58	7.69	NA	NA	340	NA
18425	Ptown	2022-10-14	22:18:02	16.63	7.82	NA	NA	340	NA
18426	Ptown	2022-10-14	22:33:02	16.63	7.84	NA	NA	340	NA

18427	Ptown	2022-10-14	22:48:02	16.58	7.85	NA	NA	340	NA
18428	Ptown	2022-10-14	23:03:02	16.58	7.85	NA	NA	340	NA
18429	Ptown	2022-10-14	23:18:02	16.56	7.85	NA	NA	340	NA
18430	Ptown	2022-10-14	23:33:02	16.53	7.88	NA	NA	340	NA
18431	Ptown	2022-10-14	23:48:02	16.53	7.87	NA	NA	340	NA
18432	Ptown	2022-10-15	00:03:02	16.51	7.88	NA	NA	340	NA
18433	Ptown	2022-10-15	00:18:02	16.51	7.88	NA	NA	340	NA
18434	Ptown	2022-10-15	00:33:02	16.49	7.90	NA	NA	340	NA
18435	Ptown	2022-10-15	00:48:02	16.49	7.87	NA	NA	340	NA
18436	Ptown	2022-10-15	01:03:02	16.44	7.91	NA	NA	340	NA
18437	Ptown	2022-10-15	01:18:02	16.42	7.88	NA	NA	340	NA
18438	Ptown	2022-10-15	01:33:02	16.42	7.91	NA	NA	340	NA
18439	Ptown	2022-10-15	01:48:02	16.42	7.91	NA	NA	340	NA
18440	Ptown	2022-10-15	02:03:02	16.39	7.91	NA	NA	340	NA
18441	Ptown	2022-10-15	02:18:02	16.37	7.91	NA	NA	340	NA
18442	Ptown	2022-10-15	02:33:02	16.34	7.91	NA	NA	340	NA
18443	Ptown	2022-10-15	02:48:02	16.30	7.92	NA	NA	340	NA
18444	Ptown	2022-10-15	03:03:02	16.25	7.92	NA	NA	340	NA
18445	Ptown	2022-10-15	03:18:02	16.20	7.92	NA	NA	340	NA
18446	Ptown	2022-10-15	03:33:02	16.18	7.92	NA	NA	340	NA
18447	Ptown	2022-10-15	03:48:02	16.13	7.92	NA	NA	340	NA
18448	Ptown	2022-10-15	04:03:02	16.11	7.92	NA	NA	340	NA
18449	Ptown	2022-10-15	04:18:02	16.08	7.92	NA	NA	340	NA
18450	Ptown	2022-10-15	04:33:02	16.08	7.93	NA	NA	340	NA
18451	Ptown	2022-10-15	04:48:02	16.06	7.93	NA	NA	340	NA
18452	Ptown	2022-10-15	05:03:02	16.06	7.93	NA	NA	340	NA
18453	Ptown	2022-10-15	05:18:02	16.06	7.92	NA	NA	340	NA
18454	Ptown	2022-10-15	05:33:02	16.06	7.92	NA	NA	340	NA
18455	Ptown	2022-10-15	05:48:02	16.06	7.92	NA	NA	340	NA
18456	Ptown	2022-10-15	06:03:02	16.06	7.92	NA	NA	340	NA
18457	Ptown	2022-10-15	06:18:02	16.06	7.91	NA	NA	340	NA
18458	Ptown	2022-10-15	06:33:02	16.06	7.91	NA	NA	340	NA
18459	Ptown	2022-10-15	06:48:02	16.06	7.91	NA	NA	340	NA
18460	Ptown	2022-10-15	07:03:02	16.06	7.91	NA	NA	340	NA
18461	Ptown	2022-10-15	07:18:02	16.06	7.91	NA	NA	340	NA
18462	Ptown	2022-10-15	07:33:02	16.03	7.91	NA	NA	340	NA
18463	Ptown	2022-10-15	07:48:02	16.06	7.92	NA	NA	340	NA
18464	Ptown	2022-10-15	08:03:02	16.03	7.92	NA	NA	340	NA
18465	Ptown	2022-10-15	08:18:02	16.03	7.92	NA	NA	340	NA
18466	Ptown	2022-10-15	08:33:02	16.06	7.93	NA	NA	340	NA
18467	Ptown	2022-10-15	08:48:02	16.08	7.93	NA	NA	340	NA

18468	Ptown	2022-10-15	09:03:02	16.11	7.93	NA	NA	340	NA
18469	Ptown	2022-10-15	09:18:02	16.13	7.94	NA	NA	340	NA
18470	Ptown	2022-10-15	09:33:02	16.15	7.95	NA	NA	340	NA
18471	Ptown	2022-10-15	09:48:02	16.15	7.95	NA	NA	340	NA
18472	Ptown	2022-10-15	10:03:02	16.13	7.96	NA	NA	340	NA
18473	Ptown	2022-10-15	10:18:02	16.11	7.98	NA	NA	340	NA
18474	Ptown	2022-10-15	10:33:02	16.08	7.98	NA	NA	340	NA
18475	Ptown	2022-10-15	10:48:02	16.08	7.92	NA	NA	340	NA
18476	Ptown	2022-10-15	11:03:02	16.13	7.96	NA	NA	340	NA
18477	Ptown	2022-10-15	11:18:02	16.18	7.94	NA	NA	340	NA
18478	Ptown	2022-10-15	11:33:02	16.20	7.97	NA	NA	340	NA
18479	Ptown	2022-10-15	11:48:02	16.22	7.98	NA	NA	340	NA
18480	Ptown	2022-10-15	12:03:02	16.27	7.99	NA	NA	340	NA
18481	Ptown	2022-10-15	12:18:02	16.30	7.99	NA	NA	340	NA
18482	Ptown	2022-10-15	12:33:02	16.32	7.91	NA	NA	340	NA
18483	Ptown	2022-10-15	12:48:02	16.32	7.94	NA	NA	340	NA
18484	Ptown	2022-10-15	13:03:02	16.32	7.99	NA	NA	340	NA
18485	Ptown	2022-10-15	13:18:02	16.27	7.96	NA	NA	340	NA
18486	Ptown	2022-10-15	13:33:02	16.27	7.97	NA	NA	340	NA
18487	Ptown	2022-10-15	13:48:02	16.27	7.96	NA	NA	340	NA
18488	Ptown	2022-10-15	14:03:02	16.27	7.94	NA	NA	340	NA
18489	Ptown	2022-10-15	14:18:02	16.27	7.97	NA	NA	340	NA
18490	Ptown	2022-10-15	14:33:02	16.27	7.98	NA	NA	340	NA
18491	Ptown	2022-10-15	14:48:02	16.27	7.95	NA	NA	340	NA
18492	Ptown	2022-10-15	15:03:02	16.27	7.98	NA	NA	340	NA
18493	Ptown	2022-10-15	15:18:02	16.27	7.96	NA	NA	340	NA
18494	Ptown	2022-10-15	15:33:02	16.30	7.99	NA	NA	340	NA
18495	Ptown	2022-10-15	15:48:02	16.27	7.98	NA	NA	340	NA
18496	Ptown	2022-10-15	16:03:02	16.27	7.99	NA	NA	340	NA
18497	Ptown	2022-10-15	16:18:02	16.27	8.00	NA	NA	340	NA
18498	Ptown	2022-10-15	16:33:02	16.27	7.98	NA	NA	340	NA
18499	Ptown	2022-10-15	16:48:02	16.27	7.99	NA	NA	340	NA
18500	Ptown	2022-10-15	17:03:02	16.27	8.01	NA	NA	340	NA
18501	Ptown	2022-10-15	17:18:02	16.27	8.01	NA	NA	340	NA
18502	Ptown	2022-10-15	17:33:02	16.27	8.01	NA	NA	340	NA
18503	Ptown	2022-10-15	17:48:02	16.27	8.00	NA	NA	340	NA
18504	Ptown	2022-10-15	18:03:02	16.30	7.99	NA	NA	340	NA
18505	Ptown	2022-10-15	18:18:02	16.30	7.99	NA	NA	340	NA
18506	Ptown	2022-10-15	18:33:02	16.32	8.00	NA	NA	340	NA
18507	Ptown	2022-10-15	18:48:02	16.34	7.99	NA	NA	340	NA
18508	Ptown	2022-10-15	19:03:02	16.39	7.99	NA	NA	340	NA

18509	Ptown	2022-10-15	19:18:02	16.42	8.01	NA	NA	340	NA
18510	Ptown	2022-10-15	19:33:02	16.42	8.01	NA	NA	340	NA
18511	Ptown	2022-10-15	19:48:02	16.42	8.01	NA	NA	340	NA
18512	Ptown	2022-10-15	20:03:02	16.37	8.01	NA	NA	340	NA
18513	Ptown	2022-10-15	20:18:02	16.32	8.00	NA	NA	340	NA
18514	Ptown	2022-10-15	20:33:02	16.25	8.00	NA	NA	340	NA
18515	Ptown	2022-10-15	20:48:02	16.18	7.99	NA	NA	340	NA
18516	Ptown	2022-10-15	21:03:02	16.11	7.97	NA	NA	340	NA
18517	Ptown	2022-10-15	21:18:02	16.03	7.97	NA	NA	340	NA
18518	Ptown	2022-10-15	21:33:02	15.99	7.96	NA	NA	340	NA
18519	Ptown	2022-10-15	21:48:02	15.89	7.94	NA	NA	340	NA
18520	Ptown	2022-10-15	22:03:02	15.75	7.91	NA	NA	340	NA
18521	Ptown	2022-10-15	22:18:02	15.65	7.88	NA	NA	340	NA
18522	Ptown	2022-10-15	22:33:02	15.75	7.93	NA	NA	340	NA
18523	Ptown	2022-10-15	22:48:02	15.70	7.92	NA	NA	340	NA
18524	Ptown	2022-10-15	23:03:02	15.70	7.92	NA	NA	340	NA
18525	Ptown	2022-10-15	23:18:02	15.60	7.89	NA	NA	340	NA
18526	Ptown	2022-10-15	23:33:02	15.58	7.88	NA	NA	340	NA
18527	Ptown	2022-10-15	23:48:02	15.60	7.88	NA	NA	340	NA
18528	Ptown	2022-10-16	00:03:02	15.68	7.91	NA	NA	340	NA
18529	Ptown	2022-10-16	00:18:02	15.72	7.92	NA	NA	340	NA
18530	Ptown	2022-10-16	00:33:02	15.75	7.94	NA	NA	340	NA
18531	Ptown	2022-10-16	00:48:02	15.75	7.94	NA	NA	340	NA
18532	Ptown	2022-10-16	01:03:02	15.82	7.95	NA	NA	340	NA
18533	Ptown	2022-10-16	01:18:02	15.82	7.95	NA	NA	340	NA
18534	Ptown	2022-10-16	01:33:02	15.77	7.95	NA	NA	340	NA
18535	Ptown	2022-10-16	01:48:02	15.80	7.95	NA	NA	340	NA
18536	Ptown	2022-10-16	02:03:02	15.80	7.96	NA	NA	340	NA
18537	Ptown	2022-10-16	02:18:02	15.80	7.95	NA	NA	340	NA
18538	Ptown	2022-10-16	02:33:02	15.82	7.95	NA	NA	340	NA
18539	Ptown	2022-10-16	02:48:02	15.82	7.95	NA	NA	340	NA
18540	Ptown	2022-10-16	03:03:02	15.84	7.96	NA	NA	340	NA
18541	Ptown	2022-10-16	03:18:02	15.84	7.95	NA	NA	340	NA
18542	Ptown	2022-10-16	03:33:02	15.84	7.95	NA	NA	340	NA
18543	Ptown	2022-10-16	03:48:02	15.84	7.94	NA	NA	340	NA
18544	Ptown	2022-10-16	04:03:02	15.84	7.94	NA	NA	340	NA
18545	Ptown	2022-10-16	04:18:02	15.84	7.94	NA	NA	340	NA
18546	Ptown	2022-10-16	04:33:02	15.82	7.94	NA	NA	340	NA
18547	Ptown	2022-10-16	04:48:02	15.82	7.94	NA	NA	340	NA
18548	Ptown	2022-10-16	05:03:02	15.82	7.94	NA	NA	340	NA
18549	Ptown	2022-10-16	05:18:02	15.80	7.94	NA	NA	340	NA

18550	Ptown	2022-10-16	05:33:02	15.77	7.94	NA	NA	340	NA
18551	Ptown	2022-10-16	05:48:02	15.75	7.95	NA	NA	340	NA
18552	Ptown	2022-10-16	06:03:02	15.70	7.95	NA	NA	340	NA
18553	Ptown	2022-10-16	06:18:02	15.68	7.95	NA	NA	340	NA
18554	Ptown	2022-10-16	06:33:02	15.65	7.94	NA	NA	340	NA
18555	Ptown	2022-10-16	06:48:02	15.65	7.95	NA	NA	340	NA
18556	Ptown	2022-10-16	07:03:02	15.68	7.94	NA	NA	340	NA
18557	Ptown	2022-10-16	07:18:02	15.68	7.94	NA	NA	340	NA
18558	Ptown	2022-10-16	07:33:02	15.68	7.95	NA	NA	340	NA
18559	Ptown	2022-10-16	07:48:02	15.68	7.94	NA	NA	340	NA
18560	Ptown	2022-10-16	08:03:02	15.68	7.94	NA	NA	340	NA
18561	Ptown	2022-10-16	08:18:02	15.70	7.95	NA	NA	340	NA
18562	Ptown	2022-10-16	08:33:02	15.65	7.93	NA	NA	340	NA
18563	Ptown	2022-10-16	08:48:02	15.60	7.93	NA	NA	340	NA
18564	Ptown	2022-10-16	09:03:02	15.53	7.90	NA	NA	340	NA
18565	Ptown	2022-10-16	09:18:02	15.53	7.91	NA	NA	340	NA
18566	Ptown	2022-10-16	09:33:02	15.53	7.90	NA	NA	340	NA
18567	Ptown	2022-10-16	09:48:02	15.56	7.89	NA	NA	340	NA
18568	Ptown	2022-10-16	10:03:02	15.60	7.91	NA	NA	340	NA
18569	Ptown	2022-10-16	10:18:02	15.72	7.93	NA	NA	340	NA
18570	Ptown	2022-10-16	10:33:02	15.94	7.95	NA	NA	340	NA
18571	Ptown	2022-10-16	10:48:02	16.13	7.96	NA	NA	340	NA
18572	Ptown	2022-10-16	11:03:02	16.22	7.98	NA	NA	340	NA
18573	Ptown	2022-10-16	11:18:02	16.30	7.99	NA	NA	340	NA
18574	Ptown	2022-10-16	11:33:02	16.42	8.02	NA	NA	340	NA
18575	Ptown	2022-10-16	11:48:02	16.44	8.04	NA	NA	340	NA
18576	Ptown	2022-10-16	12:03:02	16.51	8.04	NA	NA	340	NA
18577	Ptown	2022-10-16	12:18:02	16.56	8.05	NA	NA	340	NA
18578	Ptown	2022-10-16	12:33:02	16.61	8.02	NA	NA	340	NA
18579	Ptown	2022-10-16	12:48:02	16.65	8.01	NA	NA	340	NA
18580	Ptown	2022-10-16	13:03:02	16.80	8.03	NA	NA	340	NA
18581	Ptown	2022-10-16	13:18:02	16.82	8.03	NA	NA	340	NA
18582	Ptown	2022-10-16	13:33:02	16.82	8.02	NA	NA	340	NA
18583	Ptown	2022-10-16	13:48:02	16.80	8.03	NA	NA	340	NA
18584	Ptown	2022-10-16	14:03:02	16.80	8.02	NA	NA	340	NA
18585	Ptown	2022-10-16	14:18:02	16.80	8.03	NA	NA	340	NA
18586	Ptown	2022-10-16	14:33:02	16.80	8.02	NA	NA	340	NA
18587	Ptown	2022-10-16	14:48:02	16.75	8.05	NA	NA	340	NA
18588	Ptown	2022-10-16	15:03:02	16.68	8.04	NA	NA	340	NA
18589	Ptown	2022-10-16	15:18:02	16.65	8.04	NA	NA	340	NA
18590	Ptown	2022-10-16	15:33:02	16.68	8.03	NA	NA	340	NA

18591	Ptown	2022-10-16	15:48:02	16.68	8.03	NA	NA	340	NA
18592	Ptown	2022-10-16	16:03:02	16.72	8.03	NA	NA	340	NA
18593	Ptown	2022-10-16	16:18:02	16.70	8.01	NA	NA	340	NA
18594	Ptown	2022-10-16	16:33:02	16.70	8.01	NA	NA	340	NA
18595	Ptown	2022-10-16	16:48:02	16.68	8.00	NA	NA	340	NA
18596	Ptown	2022-10-16	17:03:02	16.68	7.97	NA	NA	340	NA
18597	Ptown	2022-10-16	17:18:02	16.68	8.01	NA	NA	340	NA
18598	Ptown	2022-10-16	17:33:02	16.68	8.02	NA	NA	340	NA
18599	Ptown	2022-10-16	17:48:02	16.68	8.01	NA	NA	340	NA
18600	Ptown	2022-10-16	18:03:02	16.70	8.02	NA	NA	340	NA
18601	Ptown	2022-10-16	18:18:02	16.70	8.02	NA	NA	340	NA
18602	Ptown	2022-10-16	18:33:02	16.70	8.02	NA	NA	340	NA
18603	Ptown	2022-10-16	18:48:02	16.70	8.02	NA	NA	340	NA
18604	Ptown	2022-10-16	19:03:02	16.70	8.02	NA	NA	340	NA
18605	Ptown	2022-10-16	19:18:02	16.65	8.02	NA	NA	340	NA
18606	Ptown	2022-10-16	19:33:02	16.63	8.03	NA	NA	340	NA
18607	Ptown	2022-10-16	19:48:02	16.61	8.03	NA	NA	340	NA
18608	Ptown	2022-10-16	20:03:02	16.61	8.03	NA	NA	340	NA
18609	Ptown	2022-10-16	20:18:02	16.61	8.03	NA	NA	340	NA
18610	Ptown	2022-10-16	20:33:02	16.58	8.03	NA	NA	340	NA
18611	Ptown	2022-10-16	20:48:02	16.58	8.03	NA	NA	340	NA
18612	Ptown	2022-10-16	21:03:02	16.58	8.02	NA	NA	340	NA
18613	Ptown	2022-10-16	21:18:02	16.53	8.02	NA	NA	340	NA
18614	Ptown	2022-10-16	21:33:02	16.46	7.99	NA	NA	340	NA
18615	Ptown	2022-10-16	21:48:02	16.56	8.01	NA	NA	340	NA
18616	Ptown	2022-10-16	22:03:02	16.58	8.01	NA	NA	340	NA
18617	Ptown	2022-10-16	22:18:02	16.51	7.97	NA	NA	340	NA
18618	Ptown	2022-10-16	22:33:02	16.42	7.96	NA	NA	340	NA
18619	Ptown	2022-10-16	22:48:02	16.37	7.97	NA	NA	340	NA
18620	Ptown	2022-10-16	23:03:02	16.42	7.94	NA	NA	340	NA
18621	Ptown	2022-10-16	23:18:02	16.44	7.91	NA	NA	340	NA
18622	Ptown	2022-10-16	23:33:02	16.34	7.96	NA	NA	340	NA
18623	Ptown	2022-10-16	23:48:02	16.32	7.95	NA	NA	340	NA
18624	Ptown	2022-10-17	00:03:02	16.30	7.95	NA	NA	340	NA
18625	Ptown	2022-10-17	00:18:02	16.30	7.92	NA	NA	340	NA
18626	Ptown	2022-10-17	00:33:02	16.25	7.96	NA	NA	340	NA
18627	Ptown	2022-10-17	00:48:02	16.25	7.97	NA	NA	340	NA
18628	Ptown	2022-10-17	01:03:02	16.22	7.97	NA	NA	340	NA
18629	Ptown	2022-10-17	01:18:02	16.27	7.98	NA	NA	340	NA
18630	Ptown	2022-10-17	01:33:02	16.27	7.97	NA	NA	340	NA
18631	Ptown	2022-10-17	01:48:02	16.25	7.97	NA	NA	340	NA

18632	Ptown	2022-10-17	02:03:02	16.22	7.97	NA	NA	340	NA
18633	Ptown	2022-10-17	02:18:02	16.22	7.96	NA	NA	340	NA
18634	Ptown	2022-10-17	02:33:02	16.25	7.97	NA	NA	340	NA
18635	Ptown	2022-10-17	02:48:02	16.25	7.96	NA	NA	340	NA
18636	Ptown	2022-10-17	03:03:02	16.25	7.96	NA	NA	340	NA
18637	Ptown	2022-10-17	03:18:02	16.25	7.97	NA	NA	340	NA
18638	Ptown	2022-10-17	03:33:02	16.25	7.96	NA	NA	340	NA
18639	Ptown	2022-10-17	03:48:02	16.27	7.94	NA	NA	340	NA
18640	Ptown	2022-10-17	04:03:02	16.27	7.96	NA	NA	340	NA
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18643	Ptown	2022-10-17	04:48:02	16.30	7.95	NA	NA	340	NA
18644	Ptown	2022-10-17	05:03:02	16.30	7.94	NA	NA	340	NA
18645	Ptown	2022-10-17	05:18:02	16.30	7.94	NA	NA	340	NA
18646	Ptown	2022-10-17	05:33:02	16.32	7.94	NA	NA	340	NA
18647	Ptown	2022-10-17	05:48:02	16.34	7.95	NA	NA	340	NA
18648	Ptown	2022-10-17	06:03:02	16.34	7.95	NA	NA	340	NA
18649	Ptown	2022-10-17	06:18:02	16.34	7.96	NA	NA	340	NA
18650	Ptown	2022-10-17	06:33:02	16.34	7.96	NA	NA	340	NA
18651	Ptown	2022-10-17	06:48:02	16.34	7.95	NA	NA	340	NA
18652	Ptown	2022-10-17	07:03:02	16.34	7.96	NA	NA	340	NA
18653	Ptown	2022-10-17	07:18:02	16.34	7.96	NA	NA	340	NA
18654	Ptown	2022-10-17	07:33:02	16.34	7.97	NA	NA	340	NA
18655	Ptown	2022-10-17	07:48:02	16.32	7.96	NA	NA	340	NA
18656	Ptown	2022-10-17	08:03:02	16.30	7.97	NA	NA	340	NA
18657	Ptown	2022-10-17	08:18:02	16.27	7.96	NA	NA	340	NA
18658	Ptown	2022-10-17	08:33:02	16.27	7.96	NA	NA	340	NA
18659	Ptown	2022-10-17	08:48:02	16.25	7.95	NA	NA	340	NA
18660	Ptown	2022-10-17	09:03:02	16.25	7.96	NA	NA	340	NA
18661	Ptown	2022-10-17	09:18:02	16.22	7.96	NA	NA	340	NA
18662	Ptown	2022-10-17	09:33:02	16.22	7.95	NA	NA	340	NA
18663	Ptown	2022-10-17	09:48:02	16.20	7.96	NA	NA	340	NA
18664	Ptown	2022-10-17	10:03:02	16.18	7.96	NA	NA	340	NA
18665	Ptown	2022-10-17	10:18:02	16.18	7.96	NA	NA	340	NA
18666	Ptown	2022-10-17	10:33:02	16.18	7.95	NA	NA	340	NA
18667	Ptown	2022-10-17	10:48:02	16.22	7.98	NA	NA	340	NA
18668	Ptown	2022-10-17	11:03:02	16.25	7.98	NA	NA	340	NA
18669	Ptown	2022-10-17	11:18:02	16.25	7.99	NA	NA	340	NA
18670	Ptown	2022-10-17	11:33:02	16.27	8.00	NA	NA	340	NA
18671	Ptown	2022-10-17	11:48:02	16.30	8.01	NA	NA	340	NA
18672	Ptown	2022-10-17	12:03:02	16.34	8.03	NA	NA	340	NA

18673	Ptown	2022-10-17	12:18:02	16.34	8.03	NA	NA	340	NA
18674	Ptown	2022-10-17	12:33:02	16.34	8.05	NA	NA	340	NA
18675	Ptown	2022-10-17	12:48:02	16.34	8.06	NA	NA	340	NA
18676	Ptown	2022-10-17	13:03:02	16.37	8.05	NA	NA	340	NA
18677	Ptown	2022-10-17	13:18:02	16.39	8.04	NA	NA	340	NA
18678	Ptown	2022-10-17	13:33:02	16.42	8.05	NA	NA	340	NA
18679	Ptown	2022-10-17	13:48:02	16.44	8.06	NA	NA	340	NA
18680	Ptown	2022-10-17	14:03:02	16.46	8.06	NA	NA	340	NA
18681	Ptown	2022-10-17	14:18:02	16.49	8.06	NA	NA	340	NA
18682	Ptown	2022-10-17	14:33:02	16.46	8.05	NA	NA	340	NA
18683	Ptown	2022-10-17	14:48:02	16.46	8.06	NA	NA	340	NA
18684	Ptown	2022-10-17	15:03:02	16.46	8.06	NA	NA	340	NA
18685	Ptown	2022-10-17	15:18:02	16.46	8.05	NA	NA	340	NA
18686	Ptown	2022-10-17	15:33:02	16.42	8.04	NA	NA	340	NA
18687	Ptown	2022-10-17	15:48:02	16.39	8.05	NA	NA	340	NA
18688	Ptown	2022-10-17	16:03:02	16.39	8.04	NA	NA	340	NA
18689	Ptown	2022-10-17	16:18:02	16.39	8.06	NA	NA	340	NA
18690	Ptown	2022-10-17	16:33:02	16.39	8.06	NA	NA	340	NA
18691	Ptown	2022-10-17	16:48:02	16.37	8.06	NA	NA	340	NA
18692	Ptown	2022-10-17	17:03:02	16.34	8.05	NA	NA	340	NA
18693	Ptown	2022-10-17	17:18:02	16.32	8.05	NA	NA	340	NA
18694	Ptown	2022-10-17	17:33:02	16.30	8.05	NA	NA	340	NA
18695	Ptown	2022-10-17	17:48:02	16.32	8.06	NA	NA	340	NA
18696	Ptown	2022-10-17	18:03:02	16.32	8.07	NA	NA	340	NA
18697	Ptown	2022-10-17	18:18:02	16.32	8.06	NA	NA	340	NA
18698	Ptown	2022-10-17	18:33:02	16.32	8.06	NA	NA	340	NA
18699	Ptown	2022-10-17	18:48:02	16.30	8.06	NA	NA	340	NA
18700	Ptown	2022-10-17	19:03:02	16.32	8.06	NA	NA	340	NA
18701	Ptown	2022-10-17	19:18:02	16.30	8.06	NA	NA	340	NA
18702	Ptown	2022-10-17	19:33:02	16.30	8.06	NA	NA	340	NA
18703	Ptown	2022-10-17	19:48:02	16.30	8.06	NA	NA	340	NA
18704	Ptown	2022-10-17	20:03:02	16.27	8.05	NA	NA	340	NA
18705	Ptown	2022-10-17	20:18:02	16.30	8.04	NA	NA	340	NA
18706	Ptown	2022-10-17	20:33:02	16.27	8.04	NA	NA	340	NA
18707	Ptown	2022-10-17	20:48:02	16.25	8.03	NA	NA	340	NA
18708	Ptown	2022-10-17	21:03:02	16.22	8.02	NA	NA	340	NA
18709	Ptown	2022-10-17	21:18:02	16.22	8.01	NA	NA	340	NA
18710	Ptown	2022-10-17	21:33:02	16.22	8.01	NA	NA	340	NA
18711	Ptown	2022-10-17	21:48:02	16.20	8.00	NA	NA	340	NA
18712	Ptown	2022-10-17	22:03:02	16.20	7.99	NA	NA	340	NA
18713	Ptown	2022-10-17	22:18:02	16.18	7.99	NA	NA	340	NA

18714	Ptown	2022-10-17	22:33:02	16.18	7.98	NA	NA	340	NA
18715	Ptown	2022-10-17	22:48:02	16.15	7.98	NA	NA	340	NA
18716	Ptown	2022-10-17	23:03:02	16.13	7.98	NA	NA	340	NA
18717	Ptown	2022-10-17	23:18:02	16.13	7.97	NA	NA	340	NA
18718	Ptown	2022-10-17	23:33:02	16.11	7.96	NA	NA	340	NA
18719	Ptown	2022-10-17	23:48:02	16.08	7.95	NA	NA	340	NA
18720	Ptown	2022-10-18	00:03:02	16.08	7.94	NA	NA	340	NA
18721	Ptown	2022-10-18	00:18:02	16.08	7.94	NA	NA	340	NA
18722	Ptown	2022-10-18	00:33:02	16.08	7.93	NA	NA	340	NA
18723	Ptown	2022-10-18	00:48:02	16.06	7.94	NA	NA	340	NA
18724	Ptown	2022-10-18	01:03:02	16.06	7.94	NA	NA	340	NA
18725	Ptown	2022-10-18	01:18:02	16.06	7.93	NA	NA	340	NA
18726	Ptown	2022-10-18	01:33:02	16.06	7.94	NA	NA	340	NA
18727	Ptown	2022-10-18	01:48:02	16.06	7.96	NA	NA	340	NA
18728	Ptown	2022-10-18	02:03:02	16.03	7.96	NA	NA	340	NA
18729	Ptown	2022-10-18	02:18:02	16.03	7.97	NA	NA	340	NA
18730	Ptown	2022-10-18	02:33:02	16.03	7.97	NA	NA	340	NA
18731	Ptown	2022-10-18	02:48:02	16.03	7.97	NA	NA	340	NA
18732	Ptown	2022-10-18	03:03:02	16.03	7.97	NA	NA	340	NA
18733	Ptown	2022-10-18	03:18:02	16.03	7.97	NA	NA	340	NA
18734	Ptown	2022-10-18	03:33:02	16.03	7.97	NA	NA	340	NA
18735	Ptown	2022-10-18	03:48:02	16.03	7.97	NA	NA	340	NA
18736	Ptown	2022-10-18	04:03:02	16.06	7.97	NA	NA	340	NA
18737	Ptown	2022-10-18	04:18:02	16.06	7.97	NA	NA	340	NA
18738	Ptown	2022-10-18	04:33:02	16.06	7.97	NA	NA	340	NA
18739	Ptown	2022-10-18	04:48:02	16.06	7.96	NA	NA	340	NA
18740	Ptown	2022-10-18	05:03:02	16.06	7.97	NA	NA	340	NA
18741	Ptown	2022-10-18	05:18:02	16.06	7.97	NA	NA	340	NA
18742	Ptown	2022-10-18	05:33:02	16.06	7.97	NA	NA	340	NA
18743	Ptown	2022-10-18	05:48:02	16.08	7.97	NA	NA	340	NA
18744	Ptown	2022-10-18	06:03:02	16.08	7.97	NA	NA	340	NA
18745	Ptown	2022-10-18	06:18:02	16.11	7.97	NA	NA	340	NA
18746	Ptown	2022-10-18	06:33:02	16.13	7.97	NA	NA	340	NA
18747	Ptown	2022-10-18	06:48:02	16.13	7.97	NA	NA	340	NA
18748	Ptown	2022-10-18	07:03:02	16.15	7.98	NA	NA	340	NA
18749	Ptown	2022-10-18	07:18:02	16.15	7.97	NA	NA	340	NA
18750	Ptown	2022-10-18	07:33:02	16.15	7.97	NA	NA	340	NA
18751	Ptown	2022-10-18	07:48:02	16.18	7.97	NA	NA	340	NA
18752	Ptown	2022-10-18	08:03:02	16.18	7.97	NA	NA	340	NA
18753	Ptown	2022-10-18	08:18:02	16.18	7.96	NA	NA	340	NA
18754	Ptown	2022-10-18	08:33:02	16.18	7.96	NA	NA	340	NA

18755	Ptown	2022-10-18	08:48:02	16.20	7.96	NA	NA	340	NA
18756	Ptown	2022-10-18	09:03:02	16.18	7.98	NA	NA	340	NA
18757	Ptown	2022-10-18	09:18:02	16.20	7.98	NA	NA	340	NA
18758	Ptown	2022-10-18	09:33:02	16.20	7.99	NA	NA	340	NA
18759	Ptown	2022-10-18	09:48:02	16.20	7.99	NA	NA	340	NA
18760	Ptown	2022-10-18	10:03:02	16.22	7.99	NA	NA	340	NA
18761	Ptown	2022-10-18	10:18:02	16.27	7.99	NA	NA	340	NA
18762	Ptown	2022-10-18	10:33:02	16.32	7.99	NA	NA	340	NA
18763	Ptown	2022-10-18	10:48:02	16.37	8.00	NA	NA	340	NA
18764	Ptown	2022-10-18	11:03:02	16.42	8.00	NA	NA	340	NA
18765	Ptown	2022-10-18	11:18:02	16.46	8.00	NA	NA	340	NA
18766	Ptown	2022-10-18	11:33:02	16.51	8.01	NA	NA	340	NA
18767	Ptown	2022-10-18	11:48:02	16.53	8.02	NA	NA	340	NA
18768	Ptown	2022-10-18	12:03:02	16.61	8.02	NA	NA	340	NA
18769	Ptown	2022-10-18	12:18:02	16.63	8.03	NA	NA	340	NA
18770	Ptown	2022-10-18	12:33:02	16.63	8.03	NA	NA	340	NA
18771	Ptown	2022-10-18	12:48:02	16.65	8.04	NA	NA	340	NA
18772	Ptown	2022-10-18	13:03:02	16.68	8.04	NA	NA	340	NA
18773	Ptown	2022-10-18	13:18:02	16.70	8.04	NA	NA	340	NA
18774	Ptown	2022-10-18	13:33:02	16.75	8.05	NA	NA	340	NA
18775	Ptown	2022-10-18	13:48:02	16.80	8.05	NA	NA	340	NA
18776	Ptown	2022-10-18	14:03:02	16.87	8.06	NA	NA	340	NA
18777	Ptown	2022-10-18	14:18:02	16.94	8.07	NA	NA	340	NA
18778	Ptown	2022-10-18	14:33:02	16.99	8.07	NA	NA	340	NA
18779	Ptown	2022-10-18	14:48:02	17.01	8.08	NA	NA	340	NA
18780	Ptown	2022-10-18	15:03:02	16.99	8.09	NA	NA	340	NA
18781	Ptown	2022-10-18	15:18:02	16.99	8.09	NA	NA	340	NA
18782	Ptown	2022-10-18	15:33:02	16.99	8.09	NA	NA	340	NA
18783	Ptown	2022-10-18	15:48:02	16.99	8.08	NA	NA	340	NA
18784	Ptown	2022-10-18	16:03:02	16.94	8.09	NA	NA	340	NA
18785	Ptown	2022-10-18	16:18:02	16.92	8.09	NA	NA	340	NA
18786	Ptown	2022-10-18	16:33:02	16.89	8.09	NA	NA	340	NA
18787	Ptown	2022-10-18	16:48:02	16.89	8.08	NA	NA	340	NA
18788	Ptown	2022-10-18	17:03:02	16.89	8.08	NA	NA	340	NA
18789	Ptown	2022-10-18	17:18:02	16.89	8.07	NA	NA	340	NA
18790	Ptown	2022-10-18	17:33:02	16.89	8.07	NA	NA	340	NA
18791	Ptown	2022-10-18	17:48:02	16.89	8.07	NA	NA	340	NA
18792	Ptown	2022-10-18	18:03:02	16.87	8.07	NA	NA	340	NA
18793	Ptown	2022-10-18	18:18:02	16.87	8.06	NA	NA	340	NA
18794	Ptown	2022-10-18	18:33:02	16.87	8.06	NA	NA	340	NA
18795	Ptown	2022-10-18	18:48:02	16.84	8.05	NA	NA	340	NA

18796	Ptown	2022-10-18	19:03:02	16.87	8.05	NA	NA	340	NA
18797	Ptown	2022-10-18	19:18:02	16.84	8.05	NA	NA	340	NA
18798	Ptown	2022-10-18	19:33:02	16.82	8.05	NA	NA	340	NA
18799	Ptown	2022-10-18	19:48:02	16.82	8.04	NA	NA	340	NA
18800	Ptown	2022-10-18	20:03:02	16.82	8.04	NA	NA	340	NA
18801	Ptown	2022-10-18	20:18:02	16.80	8.03	NA	NA	340	NA
18802	Ptown	2022-10-18	20:33:02	16.82	8.02	NA	NA	340	NA
18803	Ptown	2022-10-18	20:48:02	16.82	8.01	NA	NA	340	NA
18804	Ptown	2022-10-18	21:03:02	16.82	8.00	NA	NA	340	NA
18805	Ptown	2022-10-18	21:18:02	16.84	7.99	NA	NA	340	NA
18806	Ptown	2022-10-18	21:33:02	16.84	7.97	NA	NA	340	NA
18807	Ptown	2022-10-18	21:48:02	16.84	7.96	NA	NA	340	NA
18808	Ptown	2022-10-18	22:03:02	16.84	7.96	NA	NA	340	NA
18809	Ptown	2022-10-18	22:18:02	16.84	7.95	NA	NA	340	NA
18810	Ptown	2022-10-18	22:33:02	16.84	7.95	NA	NA	340	NA
18811	Ptown	2022-10-18	22:48:02	16.82	7.94	NA	NA	340	NA
18812	Ptown	2022-10-18	23:03:02	16.80	7.92	NA	NA	340	NA
18813	Ptown	2022-10-18	23:18:02	16.80	7.89	NA	NA	340	NA
18814	Ptown	2022-10-18	23:33:02	16.75	7.86	NA	NA	340	NA
18815	Ptown	2022-10-18	23:48:02	16.72	7.82	NA	NA	340	NA
18816	Ptown	2022-10-19	00:03:02	16.68	7.81	NA	NA	340	NA
18817	Ptown	2022-10-19	00:18:02	16.61	7.81	NA	NA	340	NA
18818	Ptown	2022-10-19	00:33:02	16.51	7.81	NA	NA	340	NA
18819	Ptown	2022-10-19	00:48:02	16.44	7.81	NA	NA	340	NA
18820	Ptown	2022-10-19	01:03:02	16.37	7.81	NA	NA	340	NA
18821	Ptown	2022-10-19	01:18:02	16.30	7.80	NA	NA	340	NA
18822	Ptown	2022-10-19	01:33:02	16.15	7.83	NA	NA	340	NA
18823	Ptown	2022-10-19	01:48:02	16.13	7.86	NA	NA	340	NA
18824	Ptown	2022-10-19	02:03:02	16.13	7.87	NA	NA	340	NA
18825	Ptown	2022-10-19	02:18:02	16.13	7.87	NA	NA	340	NA
18826	Ptown	2022-10-19	02:33:02	16.06	7.88	NA	NA	340	NA
18827	Ptown	2022-10-19	02:48:02	16.01	7.88	NA	NA	340	NA
18828	Ptown	2022-10-19	03:03:02	15.99	7.88	NA	NA	340	NA
18829	Ptown	2022-10-19	03:18:02	15.96	7.89	NA	NA	340	NA
18830	Ptown	2022-10-19	03:33:02	15.94	7.89	NA	NA	340	NA
18831	Ptown	2022-10-19	03:48:02	15.94	7.88	NA	NA	340	NA
18832	Ptown	2022-10-19	04:03:02	15.94	7.89	NA	NA	340	NA
18833	Ptown	2022-10-19	04:18:02	15.94	7.89	NA	NA	340	NA
18834	Ptown	2022-10-19	04:33:02	15.91	7.90	NA	NA	340	NA
18835	Ptown	2022-10-19	04:48:02	15.87	7.90	NA	NA	340	NA
18836	Ptown	2022-10-19	05:03:02	15.84	7.90	NA	NA	340	NA

18837	Ptown	2022-10-19	05:18:02	15.82	7.91	NA	NA	340	NA
18838	Ptown	2022-10-19	05:33:02	15.84	7.91	NA	NA	340	NA
18839	Ptown	2022-10-19	05:48:02	15.82	7.92	NA	NA	340	NA
18840	Ptown	2022-10-19	06:03:02	15.80	7.92	NA	NA	340	NA
18841	Ptown	2022-10-19	06:18:02	15.75	7.93	NA	NA	340	NA
18842	Ptown	2022-10-19	06:33:02	15.75	7.93	NA	NA	340	NA
18843	Ptown	2022-10-19	06:48:02	15.77	7.94	NA	NA	340	NA
18844	Ptown	2022-10-19	07:03:02	15.77	7.94	NA	NA	340	NA
18845	Ptown	2022-10-19	07:18:02	15.75	7.93	NA	NA	340	NA
18846	Ptown	2022-10-19	07:33:02	15.72	7.94	NA	NA	340	NA
18847	Ptown	2022-10-19	07:48:02	15.68	7.94	NA	NA	340	NA
18848	Ptown	2022-10-19	08:03:02	15.65	7.93	NA	NA	340	NA
18849	Ptown	2022-10-19	08:18:02	15.60	7.93	NA	NA	340	NA
18850	Ptown	2022-10-19	08:33:02	15.58	7.94	NA	NA	340	NA
18851	Ptown	2022-10-19	08:48:02	15.58	7.94	NA	NA	340	NA
18852	Ptown	2022-10-19	09:03:02	15.58	7.95	NA	NA	340	NA
18853	Ptown	2022-10-19	09:18:02	15.58	7.96	NA	NA	340	NA
18854	Ptown	2022-10-19	09:33:02	15.53	7.96	NA	NA	340	NA
18855	Ptown	2022-10-19	09:48:02	15.56	7.97	NA	NA	340	NA
18856	Ptown	2022-10-19	10:03:02	15.51	7.97	NA	NA	340	NA
18857	Ptown	2022-10-19	10:18:02	15.39	7.96	NA	NA	340	NA
18858	Ptown	2022-10-19	10:33:02	15.41	7.97	NA	NA	340	NA
18859	Ptown	2022-10-19	10:48:02	15.44	7.98	NA	NA	340	NA
18860	Ptown	2022-10-19	11:03:02	15.46	7.99	NA	NA	340	NA
18861	Ptown	2022-10-19	11:18:02	15.51	7.99	NA	NA	340	NA
18862	Ptown	2022-10-19	11:33:02	15.56	8.00	NA	NA	340	NA
18863	Ptown	2022-10-19	11:48:02	15.58	8.01	NA	NA	340	NA
18864	Ptown	2022-10-19	12:03:02	15.63	8.02	NA	NA	340	NA
18865	Ptown	2022-10-19	12:18:02	15.70	8.03	NA	NA	340	NA
18866	Ptown	2022-10-19	12:33:02	15.77	8.05	NA	NA	340	NA
18867	Ptown	2022-10-19	12:48:02	15.84	8.06	NA	NA	340	NA
18868	Ptown	2022-10-19	13:03:02	15.87	8.07	NA	NA	340	NA
18869	Ptown	2022-10-19	13:18:02	15.91	8.08	NA	NA	340	NA
18870	Ptown	2022-10-19	13:33:02	15.91	8.07	NA	NA	340	NA
18871	Ptown	2022-10-19	13:48:02	15.94	8.08	NA	NA	340	NA
18872	Ptown	2022-10-19	14:03:02	15.96	8.09	NA	NA	340	NA
18873	Ptown	2022-10-19	14:18:02	15.96	8.08	NA	NA	340	NA
18874	Ptown	2022-10-19	14:33:02	15.99	8.08	NA	NA	340	NA
18875	Ptown	2022-10-19	14:48:02	16.01	8.08	NA	NA	340	NA
18876	Ptown	2022-10-19	15:03:02	16.03	8.08	NA	NA	340	NA
18877	Ptown	2022-10-19	15:18:02	16.08	8.09	NA	NA	340	NA

18878	Ptown	2022-10-19	15:33:02	16.08	8.10	NA	NA	340	NA
18879	Ptown	2022-10-19	15:48:02	16.11	8.10	NA	NA	340	NA
18880	Ptown	2022-10-19	16:03:02	16.08	8.12	NA	NA	340	NA
18881	Ptown	2022-10-19	16:18:02	16.06	8.13	NA	NA	340	NA
18882	Ptown	2022-10-19	16:33:02	16.01	8.13	NA	NA	340	NA
18883	Ptown	2022-10-19	16:48:02	15.96	8.12	NA	NA	340	NA
18884	Ptown	2022-10-19	17:03:02	15.94	8.10	NA	NA	340	NA
18885	Ptown	2022-10-19	17:18:02	15.89	8.10	NA	NA	340	NA
18886	Ptown	2022-10-19	17:33:02	15.84	8.09	NA	NA	340	NA
18887	Ptown	2022-10-19	17:48:02	15.77	8.08	NA	NA	340	NA
18888	Ptown	2022-10-19	18:03:02	15.70	8.08	NA	NA	340	NA
18889	Ptown	2022-10-19	18:18:02	15.63	8.06	NA	NA	340	NA
18890	Ptown	2022-10-19	18:33:02	15.56	8.05	NA	NA	340	NA
18891	Ptown	2022-10-19	18:48:02	15.51	8.04	NA	NA	340	NA
18892	Ptown	2022-10-19	19:03:02	15.46	8.04	NA	NA	340	NA
18893	Ptown	2022-10-19	19:18:02	15.44	8.03	NA	NA	340	NA
18894	Ptown	2022-10-19	19:33:02	15.39	8.03	NA	NA	340	NA
18895	Ptown	2022-10-19	19:48:02	15.34	8.03	NA	NA	340	NA
18896	Ptown	2022-10-19	20:03:02	15.29	8.03	NA	NA	340	NA
18897	Ptown	2022-10-19	20:18:02	15.27	8.03	NA	NA	340	NA
18898	Ptown	2022-10-19	20:33:02	15.25	8.03	NA	NA	340	NA
18899	Ptown	2022-10-19	20:48:02	15.25	8.02	NA	NA	340	NA
18900	Ptown	2022-10-19	21:03:02	15.20	8.02	NA	NA	340	NA
18901	Ptown	2022-10-19	21:18:02	15.17	8.02	NA	NA	340	NA
18902	Ptown	2022-10-19	21:33:02	15.13	8.02	NA	NA	340	NA
18903	Ptown	2022-10-19	21:48:02	15.13	8.02	NA	NA	340	NA
18904	Ptown	2022-10-19	22:03:02	15.08	8.02	NA	NA	340	NA
18905	Ptown	2022-10-19	22:18:02	15.03	8.02	NA	NA	340	NA
18906	Ptown	2022-10-19	22:33:02	15.01	8.02	NA	NA	340	NA
18907	Ptown	2022-10-19	22:48:02	14.96	8.02	NA	NA	340	NA
18908	Ptown	2022-10-19	23:03:02	14.89	8.02	NA	NA	340	NA
18909	Ptown	2022-10-19	23:18:02	14.84	8.02	NA	NA	340	NA
18910	Ptown	2022-10-19	23:33:02	14.79	8.02	NA	NA	340	NA
18911	Ptown	2022-10-19	23:48:02	14.70	8.01	NA	NA	340	NA
18912	Ptown	2022-10-20	00:03:02	14.58	8.00	NA	NA	340	NA
18913	Ptown	2022-10-20	00:18:02	14.46	7.99	NA	NA	340	NA
18914	Ptown	2022-10-20	00:33:02	14.34	7.97	NA	NA	340	NA
18915	Ptown	2022-10-20	00:48:02	14.19	7.95	NA	NA	340	NA
18916	Ptown	2022-10-20	01:03:02	14.07	7.94	NA	NA	340	NA
18917	Ptown	2022-10-20	01:18:02	13.91	7.94	NA	NA	340	NA
18918	Ptown	2022-10-20	01:33:02	13.79	7.93	NA	NA	340	NA

18919	Ptown	2022-10-20	01:48:02	13.67	7.93	NA	NA	340	NA
18920	Ptown	2022-10-20	02:03:02	13.52	7.92	NA	NA	340	NA
18921	Ptown	2022-10-20	02:18:02	13.47	7.93	NA	NA	340	NA
18922	Ptown	2022-10-20	02:33:02	13.43	7.95	NA	NA	340	NA
18923	Ptown	2022-10-20	02:48:02	13.57	7.94	NA	NA	340	NA
18924	Ptown	2022-10-20	03:03:02	13.64	7.95	NA	NA	340	NA
18925	Ptown	2022-10-20	03:18:02	13.52	7.91	NA	NA	340	NA
18926	Ptown	2022-10-20	03:33:02	13.47	7.93	NA	NA	340	NA
18927	Ptown	2022-10-20	03:48:02	13.50	7.93	NA	NA	340	NA
18928	Ptown	2022-10-20	04:03:02	13.50	7.94	NA	NA	340	NA
18929	Ptown	2022-10-20	04:18:02	13.45	7.94	NA	NA	340	NA
18930	Ptown	2022-10-20	04:33:02	13.69	7.97	NA	NA	340	NA
18931	Ptown	2022-10-20	04:48:02	13.76	7.98	NA	NA	340	NA
18932	Ptown	2022-10-20	05:03:02	13.79	7.99	NA	NA	340	NA
18933	Ptown	2022-10-20	05:18:02	13.81	7.98	NA	NA	340	NA
18934	Ptown	2022-10-20	05:33:02	13.83	7.98	NA	NA	340	NA
18935	Ptown	2022-10-20	05:48:02	13.86	7.97	NA	NA	340	NA
18936	Ptown	2022-10-20	06:03:02	13.88	7.97	NA	NA	340	NA
18937	Ptown	2022-10-20	06:18:02	13.91	7.97	NA	NA	340	NA
18938	Ptown	2022-10-20	06:33:02	13.93	7.97	NA	NA	340	NA
18939	Ptown	2022-10-20	06:48:02	13.95	7.97	NA	NA	340	NA
18940	Ptown	2022-10-20	07:03:02	13.95	7.98	NA	NA	340	NA
18941	Ptown	2022-10-20	07:18:02	13.98	7.98	NA	NA	340	NA
18942	Ptown	2022-10-20	07:33:02	14.03	7.98	NA	NA	340	NA
18943	Ptown	2022-10-20	07:48:02	14.05	7.98	NA	NA	340	NA
18944	Ptown	2022-10-20	08:03:02	14.12	7.98	NA	NA	340	NA
18945	Ptown	2022-10-20	08:18:02	14.24	7.99	NA	NA	340	NA
18946	Ptown	2022-10-20	08:33:02	14.31	7.99	NA	NA	340	NA
18947	Ptown	2022-10-20	08:48:02	14.39	7.99	NA	NA	340	NA
18948	Ptown	2022-10-20	09:03:02	14.48	7.99	NA	NA	340	NA
18949	Ptown	2022-10-20	09:18:02	14.55	7.99	NA	NA	340	NA
18950	Ptown	2022-10-20	09:33:02	14.58	8.00	NA	NA	340	NA
18951	Ptown	2022-10-20	09:48:02	14.62	8.00	NA	NA	340	NA
18952	Ptown	2022-10-20	10:03:02	14.62	8.00	NA	NA	340	NA
18953	Ptown	2022-10-20	10:18:02	14.65	8.01	NA	NA	340	NA
18954	Ptown	2022-10-20	10:33:02	14.67	8.01	NA	NA	340	NA
18955	Ptown	2022-10-20	10:48:02	14.65	8.01	NA	NA	340	NA
18956	Ptown	2022-10-20	11:03:02	14.67	8.02	NA	NA	340	NA
18957	Ptown	2022-10-20	11:18:02	14.77	8.03	NA	NA	340	NA
18958	Ptown	2022-10-20	11:33:02	14.84	8.04	NA	NA	340	NA
18959	Ptown	2022-10-20	11:48:02	14.86	8.05	NA	NA	340	NA

18960	Ptown	2022-10-20	12:03:02	14.77	8.05	NA	NA	340	NA
18961	Ptown	2022-10-20	12:18:02	14.84	8.05	NA	NA	340	NA
18962	Ptown	2022-10-20	12:33:02	14.86	8.06	NA	NA	340	NA
18963	Ptown	2022-10-20	12:48:02	14.86	8.06	NA	NA	340	NA
18964	Ptown	2022-10-20	13:03:02	14.96	8.08	NA	NA	340	NA
18965	Ptown	2022-10-20	13:18:02	15.03	8.08	NA	NA	340	NA
18966	Ptown	2022-10-20	13:33:02	15.03	8.09	NA	NA	340	NA
18967	Ptown	2022-10-20	13:48:02	15.01	8.10	NA	NA	340	NA
18968	Ptown	2022-10-20	14:03:02	15.01	8.10	NA	NA	340	NA
18969	Ptown	2022-10-20	14:18:02	15.01	8.11	NA	NA	340	NA
18970	Ptown	2022-10-20	14:33:02	15.03	8.12	NA	NA	340	NA
18971	Ptown	2022-10-20	14:48:02	15.06	8.13	NA	NA	340	NA
18972	Ptown	2022-10-20	15:03:02	15.01	8.14	NA	NA	340	NA
18973	Ptown	2022-10-20	15:18:02	14.96	8.14	NA	NA	340	NA
18974	Ptown	2022-10-20	15:33:02	14.91	8.14	NA	NA	340	NA
18975	Ptown	2022-10-20	15:48:02	14.89	8.13	NA	NA	340	NA
18976	Ptown	2022-10-20	16:03:02	14.82	8.11	NA	NA	340	NA
18977	Ptown	2022-10-20	16:18:02	14.84	8.10	NA	NA	340	NA
18978	Ptown	2022-10-20	16:33:02	14.89	8.11	NA	NA	340	NA
18979	Ptown	2022-10-20	16:48:02	14.84	8.11	NA	NA	340	NA
18980	Ptown	2022-10-20	17:03:02	14.82	8.12	NA	NA	340	NA
18981	Ptown	2022-10-20	17:18:02	14.77	8.12	NA	NA	340	NA
18982	Ptown	2022-10-20	17:33:02	14.74	8.12	NA	NA	340	NA
18983	Ptown	2022-10-20	17:48:02	14.70	8.11	NA	NA	340	NA
18984	Ptown	2022-10-20	18:03:02	14.65	8.10	NA	NA	340	NA
18985	Ptown	2022-10-20	18:18:02	14.62	8.09	NA	NA	340	NA
18986	Ptown	2022-10-20	18:33:02	14.58	8.08	NA	NA	340	NA
18987	Ptown	2022-10-20	18:48:02	14.55	8.07	NA	NA	340	NA
18988	Ptown	2022-10-20	19:03:02	14.51	8.07	NA	NA	340	NA
18989	Ptown	2022-10-20	19:18:02	14.48	8.07	NA	NA	340	NA
18990	Ptown	2022-10-20	19:33:02	14.46	8.06	NA	NA	340	NA
18991	Ptown	2022-10-20	19:48:02	14.43	8.05	NA	NA	340	NA
18992	Ptown	2022-10-20	20:03:02	14.41	8.05	NA	NA	340	NA
18993	Ptown	2022-10-20	20:18:02	14.36	8.05	NA	NA	340	NA
18994	Ptown	2022-10-20	20:33:02	14.34	8.05	NA	NA	340	NA
18995	Ptown	2022-10-20	20:48:02	14.31	8.04	NA	NA	340	NA
18996	Ptown	2022-10-20	21:03:02	14.29	8.04	NA	NA	340	NA
18997	Ptown	2022-10-20	21:18:02	14.29	8.03	NA	NA	340	NA
18998	Ptown	2022-10-20	21:33:02	14.29	8.03	NA	NA	340	NA
18999	Ptown	2022-10-20	21:48:02	14.27	8.02	NA	NA	340	NA
19000	Ptown	2022-10-20	22:03:02	14.24	8.02	NA	NA	340	NA

19001	Ptown	2022-10-20	22:18:02	14.17	8.02	NA	NA	340	NA
19002	Ptown	2022-10-20	22:33:02	14.15	8.01	NA	NA	340	NA
19003	Ptown	2022-10-20	22:48:02	14.12	8.01	NA	NA	340	NA
19004	Ptown	2022-10-20	23:03:02	14.07	8.00	NA	NA	340	NA
19005	Ptown	2022-10-20	23:18:02	14.03	7.99	NA	NA	340	NA
19006	Ptown	2022-10-20	23:33:02	13.98	7.98	NA	NA	340	NA
19007	Ptown	2022-10-20	23:48:02	13.93	7.97	NA	NA	340	NA
19008	Ptown	2022-10-21	00:03:02	13.88	7.95	NA	NA	340	NA
19009	Ptown	2022-10-21	00:18:02	13.83	7.93	NA	NA	340	NA
19010	Ptown	2022-10-21	00:33:02	13.76	7.92	NA	NA	340	NA
19011	Ptown	2022-10-21	00:48:02	13.71	7.91	NA	NA	340	NA
19012	Ptown	2022-10-21	01:03:02	13.62	7.90	NA	NA	340	NA
19013	Ptown	2022-10-21	01:18:02	13.50	7.87	NA	NA	340	NA
19014	Ptown	2022-10-21	01:33:02	13.21	7.80	NA	NA	340	NA
19015	Ptown	2022-10-21	01:48:02	13.14	7.78	NA	NA	340	NA
19016	Ptown	2022-10-21	02:03:02	13.06	7.76	NA	NA	340	NA
19017	Ptown	2022-10-21	02:18:02	12.99	7.73	NA	NA	340	NA
19018	Ptown	2022-10-21	02:33:02	12.94	7.73	NA	NA	340	NA
19019	Ptown	2022-10-21	02:48:02	12.94	7.75	NA	NA	340	NA
19020	Ptown	2022-10-21	03:03:02	12.99	7.79	NA	NA	340	NA
19021	Ptown	2022-10-21	03:18:02	12.99	7.78	NA	NA	340	NA
19022	Ptown	2022-10-21	03:33:02	13.02	7.80	NA	NA	340	NA
19023	Ptown	2022-10-21	03:48:02	13.23	7.88	NA	NA	340	NA
19024	Ptown	2022-10-21	04:03:02	13.40	7.91	NA	NA	340	NA
19025	Ptown	2022-10-21	04:18:02	13.35	7.88	NA	NA	340	NA
19026	Ptown	2022-10-21	04:33:02	13.43	7.91	NA	NA	340	NA
19027	Ptown	2022-10-21	04:48:02	13.47	7.92	NA	NA	340	NA
19028	Ptown	2022-10-21	05:03:02	13.50	7.92	NA	NA	340	NA
19029	Ptown	2022-10-21	05:18:02	13.59	7.93	NA	NA	340	NA
19030	Ptown	2022-10-21	05:33:02	13.67	7.92	NA	NA	340	NA
19031	Ptown	2022-10-21	05:48:02	13.71	7.93	NA	NA	340	NA
19032	Ptown	2022-10-21	06:03:02	13.76	7.93	NA	NA	340	NA
19033	Ptown	2022-10-21	06:18:02	13.79	7.93	NA	NA	340	NA
19034	Ptown	2022-10-21	06:33:02	13.81	7.92	NA	NA	340	NA
19035	Ptown	2022-10-21	06:48:02	13.81	7.91	NA	NA	340	NA
19036	Ptown	2022-10-21	07:03:02	13.79	7.90	NA	NA	340	NA
19037	Ptown	2022-10-21	07:18:02	13.74	7.90	NA	NA	340	NA
19038	Ptown	2022-10-21	07:33:02	13.71	7.91	NA	NA	340	NA
19039	Ptown	2022-10-21	07:48:02	13.69	7.92	NA	NA	340	NA
19040	Ptown	2022-10-21	08:03:02	13.67	7.90	NA	NA	340	NA
19041	Ptown	2022-10-21	08:18:02	13.62	7.88	NA	NA	340	NA

19042	Ptown	2022-10-21	08:33:02	13.57	7.89	NA	NA	340	NA
19043	Ptown	2022-10-21	08:48:02	13.45	7.89	NA	NA	340	NA
19044	Ptown	2022-10-21	09:03:02	13.43	7.90	NA	NA	340	NA
19045	Ptown	2022-10-21	09:18:02	13.43	7.86	NA	NA	340	NA
19046	Ptown	2022-10-21	09:33:02	13.47	7.90	NA	NA	340	NA
19047	Ptown	2022-10-21	09:48:02	13.55	7.88	NA	NA	340	NA
19048	Ptown	2022-10-21	10:03:02	13.64	7.88	NA	NA	340	NA
19049	Ptown	2022-10-21	10:18:02	13.79	7.92	NA	NA	340	NA
19050	Ptown	2022-10-21	10:33:02	14.00	7.93	NA	NA	340	NA
19051	Ptown	2022-10-21	10:48:02	14.27	7.95	NA	NA	340	NA
19052	Ptown	2022-10-21	11:03:02	14.46	7.97	NA	NA	340	NA
19053	Ptown	2022-10-21	11:18:02	14.72	7.98	NA	NA	340	NA
19054	Ptown	2022-10-21	11:33:02	14.86	7.97	NA	NA	340	NA
19055	Ptown	2022-10-21	11:48:02	14.94	7.97	NA	NA	340	NA
19056	Ptown	2022-10-21	12:03:02	14.98	7.99	NA	NA	340	NA
19057	Ptown	2022-10-21	12:18:02	15.08	7.99	NA	NA	340	NA
19058	Ptown	2022-10-21	12:33:02	15.17	7.99	NA	NA	340	NA
19059	Ptown	2022-10-21	12:48:02	15.22	7.99	NA	NA	340	NA
19060	Ptown	2022-10-21	13:03:02	15.25	8.00	NA	NA	340	NA
19061	Ptown	2022-10-21	13:18:02	15.29	7.99	NA	NA	340	NA
19062	Ptown	2022-10-21	13:33:02	15.34	8.00	NA	NA	340	NA
19063	Ptown	2022-10-21	13:48:02	15.41	8.01	NA	NA	340	NA
19064	Ptown	2022-10-21	14:03:02	15.51	8.04	NA	NA	340	NA
19065	Ptown	2022-10-21	14:18:02	15.68	8.05	NA	NA	340	NA
19066	Ptown	2022-10-21	14:33:02	15.84	8.09	NA	NA	340	NA
19067	Ptown	2022-10-21	14:48:02	15.94	8.09	NA	NA	340	NA
19068	Ptown	2022-10-21	15:03:02	16.06	8.12	NA	NA	340	NA
19069	Ptown	2022-10-21	15:18:02	16.15	8.12	NA	NA	340	NA
19070	Ptown	2022-10-21	15:33:02	16.22	8.13	NA	NA	340	NA
19071	Ptown	2022-10-21	15:48:02	16.22	8.14	NA	NA	340	NA
19072	Ptown	2022-10-21	16:03:02	16.20	8.14	NA	NA	340	NA
19073	Ptown	2022-10-21	16:18:02	16.15	8.16	NA	NA	340	NA
19074	Ptown	2022-10-21	16:33:02	15.96	8.14	NA	NA	340	NA
19075	Ptown	2022-10-21	16:48:02	15.65	8.11	NA	NA	340	NA
19076	Ptown	2022-10-21	17:03:02	15.56	8.11	NA	NA	340	NA
19077	Ptown	2022-10-21	17:18:02	15.41	8.08	NA	NA	340	NA
19078	Ptown	2022-10-21	17:33:02	15.39	8.08	NA	NA	340	NA
19079	Ptown	2022-10-21	17:48:02	15.32	8.08	NA	NA	340	NA
19080	Ptown	2022-10-21	18:03:02	15.27	8.06	NA	NA	340	NA
19081	Ptown	2022-10-21	18:18:02	15.22	8.07	NA	NA	340	NA
19082	Ptown	2022-10-21	18:33:02	15.17	8.06	NA	NA	340	NA

19083	Ptown	2022-10-21	18:48:02	15.13	8.05	NA	NA	340	NA
19084	Ptown	2022-10-21	19:03:02	15.13	8.05	NA	NA	340	NA
19085	Ptown	2022-10-21	19:18:02	15.10	8.05	NA	NA	340	NA
19086	Ptown	2022-10-21	19:33:02	15.08	8.05	NA	NA	340	NA
19087	Ptown	2022-10-21	19:48:02	15.06	8.05	NA	NA	340	NA
19088	Ptown	2022-10-21	20:03:02	15.06	8.05	NA	NA	340	NA
19089	Ptown	2022-10-21	20:18:02	15.06	8.05	NA	NA	340	NA
19090	Ptown	2022-10-21	20:33:02	15.08	8.05	NA	NA	340	NA
19091	Ptown	2022-10-21	20:48:02	15.08	8.05	NA	NA	340	NA
19092	Ptown	2022-10-21	21:03:02	15.06	8.05	NA	NA	340	NA
19093	Ptown	2022-10-21	21:18:02	15.08	8.05	NA	NA	340	NA
19094	Ptown	2022-10-21	21:33:02	15.08	8.04	NA	NA	340	NA
19095	Ptown	2022-10-21	21:48:02	15.08	8.04	NA	NA	340	NA
19096	Ptown	2022-10-21	22:03:02	15.08	8.03	NA	NA	340	NA
19097	Ptown	2022-10-21	22:18:02	15.06	8.03	NA	NA	340	NA
19098	Ptown	2022-10-21	22:33:02	15.03	8.04	NA	NA	340	NA
19099	Ptown	2022-10-21	22:48:02	15.01	8.03	NA	NA	340	NA
19100	Ptown	2022-10-21	23:03:02	14.98	8.03	NA	NA	340	NA
19101	Ptown	2022-10-21	23:18:02	14.96	8.03	NA	NA	340	NA
19102	Ptown	2022-10-21	23:33:02	14.94	8.04	NA	NA	340	NA
19103	Ptown	2022-10-21	23:48:02	14.94	8.04	NA	NA	340	NA
19104	Ptown	2022-10-22	00:03:02	14.96	8.05	NA	NA	340	NA
19105	Ptown	2022-10-22	00:18:02	15.06	8.06	NA	NA	340	NA
19106	Ptown	2022-10-22	00:33:02	15.08	8.06	NA	NA	340	NA
19107	Ptown	2022-10-22	00:48:02	14.96	8.03	NA	NA	340	NA
19108	Ptown	2022-10-22	01:03:02	14.98	8.05	NA	NA	340	NA
19109	Ptown	2022-10-22	01:18:02	14.98	8.07	NA	NA	340	NA
19110	Ptown	2022-10-22	01:33:02	14.94	8.06	NA	NA	340	NA
19111	Ptown	2022-10-22	01:48:02	14.82	8.04	NA	NA	340	NA
19112	Ptown	2022-10-22	02:03:02	14.67	7.98	NA	NA	340	NA
19113	Ptown	2022-10-22	02:18:02	14.43	7.88	NA	NA	340	NA
19114	Ptown	2022-10-22	02:33:02	14.34	7.89	NA	NA	340	NA
19115	Ptown	2022-10-22	02:48:02	14.31	7.95	NA	NA	340	NA
19116	Ptown	2022-10-22	03:03:02	14.24	7.94	NA	NA	340	NA
19117	Ptown	2022-10-22	03:18:02	14.15	7.91	NA	NA	340	NA
19118	Ptown	2022-10-22	03:33:02	14.05	7.89	NA	NA	340	NA
19119	Ptown	2022-10-22	03:48:02	13.98	7.87	NA	NA	340	NA
19120	Ptown	2022-10-22	04:03:02	13.95	7.85	NA	NA	340	NA
19121	Ptown	2022-10-22	04:18:02	14.03	7.84	NA	NA	340	NA
19122	Ptown	2022-10-22	04:33:02	14.00	7.86	NA	NA	340	NA
19123	Ptown	2022-10-22	04:48:02	14.15	7.93	NA	NA	340	NA

19124	Ptown	2022-10-22	05:03:02	14.22	7.98	NA	NA	340	NA
19125	Ptown	2022-10-22	05:18:02	14.29	8.00	NA	NA	340	NA
19126	Ptown	2022-10-22	05:33:02	14.29	8.03	NA	NA	340	NA
19127	Ptown	2022-10-22	05:48:02	14.39	8.05	NA	NA	340	NA
19128	Ptown	2022-10-22	06:03:02	14.43	8.04	NA	NA	340	NA
19129	Ptown	2022-10-22	06:18:02	14.46	8.02	NA	NA	340	NA
19130	Ptown	2022-10-22	06:33:02	14.48	8.02	NA	NA	340	NA
19131	Ptown	2022-10-22	06:48:02	14.51	8.02	NA	NA	340	NA
19132	Ptown	2022-10-22	07:03:02	14.53	8.01	NA	NA	340	NA
19133	Ptown	2022-10-22	07:18:02	14.58	8.02	NA	NA	340	NA
19134	Ptown	2022-10-22	07:33:02	14.60	8.01	NA	NA	340	NA
19135	Ptown	2022-10-22	07:48:02	14.60	8.00	NA	NA	340	NA
19136	Ptown	2022-10-22	08:03:02	14.58	7.98	NA	NA	340	NA
19137	Ptown	2022-10-22	08:18:02	14.58	7.99	NA	NA	340	NA
19138	Ptown	2022-10-22	08:33:02	14.48	8.00	NA	NA	340	NA
19139	Ptown	2022-10-22	08:48:02	14.46	7.99	NA	NA	340	NA
19140	Ptown	2022-10-22	09:03:02	14.48	8.00	NA	NA	340	NA
19141	Ptown	2022-10-22	09:18:02	14.51	8.00	NA	NA	340	NA
19142	Ptown	2022-10-22	09:33:02	14.53	8.01	NA	NA	340	NA
19143	Ptown	2022-10-22	09:48:02	14.51	8.01	NA	NA	340	NA
19144	Ptown	2022-10-22	10:03:02	14.53	8.02	NA	NA	340	NA
19145	Ptown	2022-10-22	10:18:02	14.58	8.04	NA	NA	340	NA
19146	Ptown	2022-10-22	10:33:02	14.62	8.04	NA	NA	340	NA
19147	Ptown	2022-10-22	10:48:02	14.65	8.05	NA	NA	340	NA
19148	Ptown	2022-10-22	11:03:02	14.70	8.05	NA	NA	340	NA
19149	Ptown	2022-10-22	11:18:02	14.74	8.05	NA	NA	340	NA
19150	Ptown	2022-10-22	11:33:02	14.77	8.05	NA	NA	340	NA
19151	Ptown	2022-10-22	11:48:02	14.77	8.05	NA	NA	340	NA
19152	Ptown	2022-10-22	12:03:02	14.82	8.05	NA	NA	340	NA
19153	Ptown	2022-10-22	12:18:02	14.82	8.05	NA	NA	340	NA
19154	Ptown	2022-10-22	12:33:02	14.86	8.04	NA	NA	340	NA
19155	Ptown	2022-10-22	12:48:02	14.91	8.06	NA	NA	340	NA
19156	Ptown	2022-10-22	13:03:02	14.96	8.08	NA	NA	340	NA
19157	Ptown	2022-10-22	13:18:02	15.01	8.07	NA	NA	340	NA
19158	Ptown	2022-10-22	13:33:02	15.10	8.10	NA	NA	340	NA
19159	Ptown	2022-10-22	13:48:02	15.17	8.08	NA	NA	340	NA
19160	Ptown	2022-10-22	14:03:02	15.29	8.07	NA	NA	340	NA
19161	Ptown	2022-10-22	14:18:02	15.41	8.06	NA	NA	340	NA
19162	Ptown	2022-10-22	14:33:02	15.56	8.08	NA	NA	340	NA
19163	Ptown	2022-10-22	14:48:02	15.80	8.10	NA	NA	340	NA
19164	Ptown	2022-10-22	15:03:02	15.99	8.11	NA	NA	340	NA

19165	Ptown	2022-10-22	15:18:02	16.18	8.14	NA	NA	340	NA
19166	Ptown	2022-10-22	15:33:02	16.30	8.15	NA	NA	340	NA
19167	Ptown	2022-10-22	15:48:02	16.39	8.17	NA	NA	340	NA
19168	Ptown	2022-10-22	16:03:02	16.39	8.17	NA	NA	340	NA
19169	Ptown	2022-10-22	16:18:02	16.39	8.19	NA	NA	340	NA
19170	Ptown	2022-10-22	16:33:02	16.34	8.19	NA	NA	340	NA
19171	Ptown	2022-10-22	16:48:02	16.49	8.22	NA	NA	340	NA
19172	Ptown	2022-10-22	17:03:02	16.46	8.20	NA	NA	340	NA
19173	Ptown	2022-10-22	17:18:02	16.37	8.20	NA	NA	340	NA
19174	Ptown	2022-10-22	17:33:02	16.18	8.17	NA	NA	340	NA
19175	Ptown	2022-10-22	17:48:02	15.91	8.15	NA	NA	340	NA
19176	Ptown	2022-10-22	18:03:02	15.72	8.14	NA	NA	340	NA
19177	Ptown	2022-10-22	18:18:02	15.63	8.14	NA	NA	340	NA
19178	Ptown	2022-10-22	18:33:02	15.56	8.14	NA	NA	340	NA
19179	Ptown	2022-10-22	18:48:02	15.49	8.13	NA	NA	340	NA
19180	Ptown	2022-10-22	19:03:02	15.46	8.12	NA	NA	340	NA
19181	Ptown	2022-10-22	19:18:02	15.46	8.12	NA	NA	340	NA
19182	Ptown	2022-10-22	19:33:02	15.44	8.12	NA	NA	340	NA
19183	Ptown	2022-10-22	19:48:02	15.41	8.11	NA	NA	340	NA
19184	Ptown	2022-10-22	20:03:02	15.34	8.09	NA	NA	340	NA
19185	Ptown	2022-10-22	20:18:02	15.29	8.07	NA	NA	340	NA
19186	Ptown	2022-10-22	20:33:02	15.15	8.05	NA	NA	340	NA
19187	Ptown	2022-10-22	20:48:02	15.13	8.03	NA	NA	340	NA
19188	Ptown	2022-10-22	21:03:02	15.13	8.03	NA	NA	340	NA
19189	Ptown	2022-10-22	21:18:02	15.13	8.02	NA	NA	340	NA
19190	Ptown	2022-10-22	21:33:02	15.13	8.02	NA	NA	340	NA
19191	Ptown	2022-10-22	21:48:02	15.13	8.01	NA	NA	340	NA
19192	Ptown	2022-10-22	22:03:02	15.10	8.00	NA	NA	340	NA
19193	Ptown	2022-10-22	22:18:02	15.10	7.98	NA	NA	340	NA
19194	Ptown	2022-10-22	22:33:02	15.13	7.98	NA	NA	340	NA
19195	Ptown	2022-10-22	22:48:02	15.10	7.98	NA	NA	340	NA
19196	Ptown	2022-10-22	23:03:02	15.08	7.98	NA	NA	340	NA
19197	Ptown	2022-10-22	23:18:02	15.08	7.97	NA	NA	340	NA
19198	Ptown	2022-10-22	23:33:02	15.08	7.97	NA	NA	340	NA
19199	Ptown	2022-10-22	23:48:02	15.08	7.96	NA	NA	340	NA
19200	Ptown	2022-10-23	00:03:02	15.10	7.96	NA	NA	340	NA
19201	Ptown	2022-10-23	00:18:02	15.08	7.97	NA	NA	340	NA
19202	Ptown	2022-10-23	00:33:02	15.06	7.98	NA	NA	340	NA
19203	Ptown	2022-10-23	00:48:02	15.06	7.98	NA	NA	340	NA
19204	Ptown	2022-10-23	01:03:02	15.03	7.98	NA	NA	340	NA
19205	Ptown	2022-10-23	01:18:02	15.01	8.00	NA	NA	340	NA

19206	Ptown	2022-10-23	01:33:02	14.98	7.99	NA	NA	340	NA
19207	Ptown	2022-10-23	01:48:02	14.94	8.01	NA	NA	340	NA
19208	Ptown	2022-10-23	02:03:02	14.94	7.99	NA	NA	340	NA
19209	Ptown	2022-10-23	02:18:02	14.91	8.00	NA	NA	340	NA
19210	Ptown	2022-10-23	02:33:02	14.91	7.99	NA	NA	340	NA
19211	Ptown	2022-10-23	02:48:02	14.91	8.00	NA	NA	340	NA
19212	Ptown	2022-10-23	03:03:02	14.89	7.97	NA	NA	340	NA
19213	Ptown	2022-10-23	03:18:02	14.84	7.95	NA	NA	340	NA
19214	Ptown	2022-10-23	03:33:02	14.82	7.91	NA	NA	340	NA
19215	Ptown	2022-10-23	03:48:02	14.74	7.89	NA	NA	340	NA
19216	Ptown	2022-10-23	04:03:02	14.70	7.86	NA	NA	340	NA
19217	Ptown	2022-10-23	04:18:02	14.62	7.82	NA	NA	340	NA
19218	Ptown	2022-10-23	04:33:02	14.60	7.79	NA	NA	340	NA
19219	Ptown	2022-10-23	04:48:02	14.58	7.76	NA	NA	340	NA
19220	Ptown	2022-10-23	05:03:02	14.34	7.64	NA	NA	340	NA
19221	Ptown	2022-10-23	05:18:02	14.41	7.73	NA	NA	340	NA
19222	Ptown	2022-10-23	05:33:02	14.53	7.80	NA	NA	340	NA
19223	Ptown	2022-10-23	05:48:02	14.55	7.84	NA	NA	340	NA
19224	Ptown	2022-10-23	06:03:02	14.58	7.89	NA	NA	340	NA
19225	Ptown	2022-10-23	06:18:02	14.58	7.92	NA	NA	340	NA
19226	Ptown	2022-10-23	06:33:02	14.62	7.93	NA	NA	340	NA
19227	Ptown	2022-10-23	06:48:02	14.62	7.95	NA	NA	340	NA
19228	Ptown	2022-10-23	07:03:02	14.62	7.95	NA	NA	340	NA
19229	Ptown	2022-10-23	07:18:02	14.62	7.97	NA	NA	340	NA
19230	Ptown	2022-10-23	07:33:02	14.62	7.96	NA	NA	340	NA
19231	Ptown	2022-10-23	07:48:02	14.65	7.94	NA	NA	340	NA
19232	Ptown	2022-10-23	08:03:02	14.65	7.94	NA	NA	340	NA
19233	Ptown	2022-10-23	08:18:02	14.65	7.94	NA	NA	340	NA
19234	Ptown	2022-10-23	08:33:02	14.65	7.93	NA	NA	340	NA
19235	Ptown	2022-10-23	08:48:02	14.65	7.94	NA	NA	340	NA
19236	Ptown	2022-10-23	09:03:02	14.65	7.91	NA	NA	340	NA
19237	Ptown	2022-10-23	09:18:02	14.65	7.90	NA	NA	340	NA
19238	Ptown	2022-10-23	09:33:02	14.65	7.94	NA	NA	340	NA
19239	Ptown	2022-10-23	09:48:02	14.65	7.90	NA	NA	340	NA
19240	Ptown	2022-10-23	10:03:02	14.65	7.89	NA	NA	340	NA
19241	Ptown	2022-10-23	10:18:02	14.70	7.86	NA	NA	340	NA
19242	Ptown	2022-10-23	10:33:02	14.74	7.88	NA	NA	340	NA
19243	Ptown	2022-10-23	10:48:02	14.77	7.92	NA	NA	340	NA
19244	Ptown	2022-10-23	11:03:02	14.82	7.93	NA	NA	340	NA
19245	Ptown	2022-10-23	11:18:02	14.86	7.95	NA	NA	340	NA
19246	Ptown	2022-10-23	11:33:02	14.91	7.94	NA	NA	340	NA

19247	Ptown	2022-10-23	11:48:02	14.94	7.97	NA	NA	340	NA
19248	Ptown	2022-10-23	12:03:02	14.96	7.98	NA	NA	340	NA
19249	Ptown	2022-10-23	12:18:02	14.96	8.00	NA	NA	340	NA
19250	Ptown	2022-10-23	12:33:02	14.96	8.02	NA	NA	340	NA
19251	Ptown	2022-10-23	12:48:02	14.98	8.04	NA	NA	340	NA
19252	Ptown	2022-10-23	13:03:02	14.98	8.02	NA	NA	340	NA
19253	Ptown	2022-10-23	13:18:02	15.01	8.04	NA	NA	340	NA
19254	Ptown	2022-10-23	13:33:02	15.01	8.05	NA	NA	340	NA
19255	Ptown	2022-10-23	13:48:02	14.98	8.03	NA	NA	340	NA
19256	Ptown	2022-10-23	14:03:02	14.91	8.01	NA	NA	340	NA
19257	Ptown	2022-10-23	14:18:02	14.89	8.02	NA	NA	340	NA
19258	Ptown	2022-10-23	14:33:02	14.86	8.04	NA	NA	340	NA
19259	Ptown	2022-10-23	14:48:02	14.84	8.08	NA	NA	340	NA
19260	Ptown	2022-10-23	15:03:02	14.84	8.08	NA	NA	340	NA
19261	Ptown	2022-10-23	15:18:02	14.86	8.10	NA	NA	340	NA
19262	Ptown	2022-10-23	15:33:02	14.89	8.12	NA	NA	340	NA
19263	Ptown	2022-10-23	15:48:02	14.91	8.12	NA	NA	340	NA
19264	Ptown	2022-10-23	16:03:02	14.91	8.12	NA	NA	340	NA
19265	Ptown	2022-10-23	16:18:02	14.89	8.12	NA	NA	340	NA
19266	Ptown	2022-10-23	16:33:02	14.84	8.14	NA	NA	340	NA
19267	Ptown	2022-10-23	16:48:02	14.82	8.16	NA	NA	340	NA
19268	Ptown	2022-10-23	17:03:02	14.79	8.17	NA	NA	340	NA
19269	Ptown	2022-10-23	17:18:02	14.74	8.14	NA	NA	340	NA
19270	Ptown	2022-10-23	17:33:02	14.70	8.12	NA	NA	340	NA
19271	Ptown	2022-10-23	17:48:02	14.65	8.16	NA	NA	340	NA
19272	Ptown	2022-10-23	18:03:02	14.72	8.05	NA	NA	340	NA
19273	Ptown	2022-10-23	18:18:02	14.72	8.09	NA	NA	340	NA
19274	Ptown	2022-10-23	18:33:02	14.72	8.00	NA	NA	340	NA
19275	Ptown	2022-10-23	18:48:02	14.72	8.01	NA	NA	340	NA
19276	Ptown	2022-10-23	19:03:02	14.72	7.99	NA	NA	340	NA
19277	Ptown	2022-10-23	19:18:02	14.72	7.96	NA	NA	340	NA
19278	Ptown	2022-10-23	19:33:02	14.72	7.99	NA	NA	340	NA
19279	Ptown	2022-10-23	19:48:02	14.67	8.00	NA	NA	340	NA
19280	Ptown	2022-10-23	20:03:02	14.67	7.98	NA	NA	340	NA
19281	Ptown	2022-10-23	20:18:02	14.70	8.02	NA	NA	340	NA
19282	Ptown	2022-10-23	20:33:02	14.70	8.02	NA	NA	340	NA
19283	Ptown	2022-10-23	20:48:02	14.70	8.00	NA	NA	340	NA
19284	Ptown	2022-10-23	21:03:02	14.67	8.00	NA	NA	340	NA
19285	Ptown	2022-10-23	21:18:02	14.67	7.98	NA	NA	340	NA
19286	Ptown	2022-10-23	21:33:02	14.67	7.99	NA	NA	340	NA
19287	Ptown	2022-10-23	21:48:02	14.67	7.99	NA	NA	340	NA

19288	Ptown	2022-10-23	22:03:02	14.65	7.98	NA	NA	340	NA
19289	Ptown	2022-10-23	22:18:02	14.65	7.97	NA	NA	340	NA
19290	Ptown	2022-10-23	22:33:02	14.65	7.96	NA	NA	340	NA
19291	Ptown	2022-10-23	22:48:02	14.67	7.97	NA	NA	340	NA
19292	Ptown	2022-10-23	23:03:02	14.70	7.98	NA	NA	340	NA
19293	Ptown	2022-10-23	23:18:02	14.70	7.95	NA	NA	340	NA
19294	Ptown	2022-10-23	23:33:02	14.72	7.93	NA	NA	340	NA
19295	Ptown	2022-10-23	23:48:02	14.77	7.92	NA	NA	340	NA
19296	Ptown	2022-10-24	00:03:02	14.82	7.92	NA	NA	340	NA
19297	Ptown	2022-10-24	00:18:02	14.84	7.93	NA	NA	340	NA
19298	Ptown	2022-10-24	00:33:02	14.86	7.88	NA	NA	340	NA
19299	Ptown	2022-10-24	00:48:02	14.89	7.88	NA	NA	340	NA
19300	Ptown	2022-10-24	01:03:02	14.89	7.88	NA	NA	340	NA
19301	Ptown	2022-10-24	01:18:02	14.91	7.86	NA	NA	340	NA
19302	Ptown	2022-10-24	01:33:02	14.91	7.86	NA	NA	340	NA
19303	Ptown	2022-10-24	01:48:02	14.91	7.86	NA	NA	340	NA
19304	Ptown	2022-10-24	02:03:02	14.91	7.84	NA	NA	340	NA
19305	Ptown	2022-10-24	02:18:02	14.91	7.86	NA	NA	340	NA
19306	Ptown	2022-10-24	02:33:02	14.91	7.84	NA	NA	340	NA
19307	Ptown	2022-10-24	02:48:02	14.91	7.86	NA	NA	340	NA
19308	Ptown	2022-10-24	03:03:02	14.91	7.89	NA	NA	340	NA
19309	Ptown	2022-10-24	03:18:02	14.89	7.89	NA	NA	340	NA
19310	Ptown	2022-10-24	03:33:02	14.89	7.91	NA	NA	340	NA
19311	Ptown	2022-10-24	03:48:02	14.86	7.87	NA	NA	340	NA
19312	Ptown	2022-10-24	04:03:02	14.86	7.86	NA	NA	340	NA
19313	Ptown	2022-10-24	04:18:02	14.86	7.82	NA	NA	340	NA
19314	Ptown	2022-10-24	04:33:02	14.84	7.82	NA	NA	340	NA
19315	Ptown	2022-10-24	04:48:02	14.82	7.77	NA	NA	340	NA
19316	Ptown	2022-10-24	05:03:02	14.77	7.63	NA	NA	340	NA
19317	Ptown	2022-10-24	05:18:02	14.74	7.42	NA	NA	340	NA
19318	Ptown	2022-10-24	05:33:02	14.86	7.43	NA	NA	340	NA
19319	Ptown	2022-10-24	05:48:02	14.79	7.76	NA	NA	340	NA
19320	Ptown	2022-10-24	06:03:02	14.79	7.75	NA	NA	340	NA
19321	Ptown	2022-10-24	06:18:02	14.79	7.74	NA	NA	340	NA
19322	Ptown	2022-10-24	06:33:02	14.82	7.82	NA	NA	340	NA
19323	Ptown	2022-10-24	06:48:02	14.84	7.87	NA	NA	340	NA
19324	Ptown	2022-10-24	07:03:02	14.86	7.86	NA	NA	340	NA
19325	Ptown	2022-10-24	07:18:02	14.86	7.85	NA	NA	340	NA
19326	Ptown	2022-10-24	07:33:02	14.86	7.88	NA	NA	340	NA
19327	Ptown	2022-10-24	07:48:02	14.89	7.89	NA	NA	340	NA
19328	Ptown	2022-10-24	08:03:02	14.89	7.90	NA	NA	340	NA

19329	Ptown	2022-10-24	08:18:02	14.91	7.89	NA	NA	340	NA
19330	Ptown	2022-10-24	08:33:02	14.91	7.90	NA	NA	340	NA
19331	Ptown	2022-10-24	08:48:02	14.91	7.91	NA	NA	340	NA
19332	Ptown	2022-10-24	09:03:02	14.94	7.91	NA	NA	340	NA
19333	Ptown	2022-10-24	09:18:02	14.94	7.92	NA	NA	340	NA
19334	Ptown	2022-10-24	09:33:02	14.94	7.94	NA	NA	340	NA
19335	Ptown	2022-10-24	09:48:02	14.96	7.92	NA	NA	340	NA
19336	Ptown	2022-10-24	10:03:02	14.96	7.93	NA	NA	340	NA
19337	Ptown	2022-10-24	10:18:02	14.98	7.92	NA	NA	340	NA
19338	Ptown	2022-10-24	10:33:02	14.98	7.92	NA	NA	340	NA
19339	Ptown	2022-10-24	10:48:02	14.98	7.93	NA	NA	340	NA
19340	Ptown	2022-10-24	11:03:02	14.98	7.93	NA	NA	340	NA
19341	Ptown	2022-10-24	11:18:02	15.03	7.93	NA	NA	340	NA
19342	Ptown	2022-10-24	11:33:02	15.06	7.94	NA	NA	340	NA
19343	Ptown	2022-10-24	11:48:02	15.06	7.93	NA	NA	340	NA
19344	Ptown	2022-10-24	12:03:02	15.08	7.95	NA	NA	340	NA
19345	Ptown	2022-10-24	12:18:02	15.10	7.96	NA	NA	340	NA
19346	Ptown	2022-10-24	12:33:02	15.13	7.94	NA	NA	340	NA
19347	Ptown	2022-10-24	12:48:02	15.13	7.97	NA	NA	340	NA
19348	Ptown	2022-10-24	13:03:02	15.15	7.96	NA	NA	340	NA
19349	Ptown	2022-10-24	13:18:02	15.17	7.99	NA	NA	340	NA
19350	Ptown	2022-10-24	13:33:02	15.17	7.98	NA	NA	340	NA
19351	Ptown	2022-10-24	13:48:02	15.20	8.00	NA	NA	340	NA
19352	Ptown	2022-10-24	14:03:02	15.20	8.00	NA	NA	340	NA
19353	Ptown	2022-10-24	14:18:02	15.22	8.02	NA	NA	340	NA
19354	Ptown	2022-10-24	14:33:02	15.25	8.02	NA	NA	340	NA
19355	Ptown	2022-10-24	14:48:02	15.27	8.02	NA	NA	340	NA
19356	Ptown	2022-10-24	15:03:02	15.29	8.02	NA	NA	340	NA
19357	Ptown	2022-10-24	15:18:02	15.34	8.03	NA	NA	340	NA
19358	Ptown	2022-10-24	15:33:02	15.34	8.04	NA	NA	340	NA
19359	Ptown	2022-10-24	15:48:02	15.37	8.06	NA	NA	340	NA
19360	Ptown	2022-10-24	16:03:02	15.41	8.08	NA	NA	340	NA
19361	Ptown	2022-10-24	16:18:02	15.49	8.12	NA	NA	340	NA
19362	Ptown	2022-10-24	16:33:02	15.53	8.13	NA	NA	340	NA
19363	Ptown	2022-10-24	16:48:02	15.56	8.17	NA	NA	340	NA
19364	Ptown	2022-10-24	17:03:02	15.53	8.21	NA	NA	340	NA
19365	Ptown	2022-10-24	17:18:02	15.29	8.28	NA	NA	340	NA
19366	Ptown	2022-10-24	17:33:02	15.10	8.31	NA	NA	340	NA
19367	Ptown	2022-10-24	17:48:02	15.37	8.25	NA	NA	340	NA
19368	Ptown	2022-10-24	18:03:02	15.34	8.10	NA	NA	340	NA
19369	Ptown	2022-10-24	18:18:02	15.39	8.11	NA	NA	340	NA

19370	Ptown	2022-10-24	18:33:02	15.41	8.13	NA	NA	340	NA
19371	Ptown	2022-10-24	18:48:02	15.41	8.09	NA	NA	340	NA
19372	Ptown	2022-10-24	19:03:02	15.41	8.06	NA	NA	340	NA
19373	Ptown	2022-10-24	19:18:02	15.39	8.08	NA	NA	340	NA
19374	Ptown	2022-10-24	19:33:02	15.37	8.03	NA	NA	340	NA
19375	Ptown	2022-10-24	19:48:02	15.34	8.02	NA	NA	340	NA
19376	Ptown	2022-10-24	20:03:02	15.34	8.00	NA	NA	340	NA
19377	Ptown	2022-10-24	20:18:02	15.32	7.99	NA	NA	340	NA
19378	Ptown	2022-10-24	20:33:02	15.32	8.00	NA	NA	340	NA
19379	Ptown	2022-10-24	20:48:02	15.29	7.99	NA	NA	340	NA
19380	Ptown	2022-10-24	21:03:02	15.27	7.99	NA	NA	340	NA
19381	Ptown	2022-10-24	21:18:02	15.25	7.97	NA	NA	340	NA
19382	Ptown	2022-10-24	21:33:02	15.25	7.97	NA	NA	340	NA
19383	Ptown	2022-10-24	21:48:02	15.25	7.96	NA	NA	340	NA
19384	Ptown	2022-10-24	22:03:02	15.25	7.95	NA	NA	340	NA
19385	Ptown	2022-10-24	22:18:02	15.25	7.95	NA	NA	340	NA
19386	Ptown	2022-10-24	22:33:02	15.22	7.93	NA	NA	340	NA
19387	Ptown	2022-10-24	22:48:02	15.22	7.94	NA	NA	340	NA
19388	Ptown	2022-10-24	23:03:02	15.22	7.95	NA	NA	340	NA
19389	Ptown	2022-10-24	23:18:02	15.22	7.93	NA	NA	340	NA
19390	Ptown	2022-10-24	23:33:02	15.22	7.92	NA	NA	340	NA
19391	Ptown	2022-10-24	23:48:02	15.20	7.94	NA	NA	340	NA
19392	Ptown	2022-10-25	00:03:02	15.20	7.93	NA	NA	340	NA
19393	Ptown	2022-10-25	00:18:02	15.17	7.93	NA	NA	340	NA
19394	Ptown	2022-10-25	00:33:02	15.17	7.93	NA	NA	340	NA
19395	Ptown	2022-10-25	00:48:02	15.15	7.94	NA	NA	340	NA
19396	Ptown	2022-10-25	01:03:02	15.15	7.94	NA	NA	340	NA
19397	Ptown	2022-10-25	01:18:02	15.15	7.93	NA	NA	340	NA
19398	Ptown	2022-10-25	01:33:02	15.15	7.92	NA	NA	340	NA
19399	Ptown	2022-10-25	01:48:02	15.15	7.93	NA	NA	340	NA
19400	Ptown	2022-10-25	02:03:02	15.15	7.92	NA	NA	340	NA
19401	Ptown	2022-10-25	02:18:02	15.15	7.94	NA	NA	340	NA
19402	Ptown	2022-10-25	02:33:02	15.15	7.93	NA	NA	340	NA
19403	Ptown	2022-10-25	02:48:02	15.15	7.93	NA	NA	340	NA
19404	Ptown	2022-10-25	03:03:02	15.17	7.92	NA	NA	340	NA
19405	Ptown	2022-10-25	03:18:02	15.17	7.91	NA	NA	340	NA
19406	Ptown	2022-10-25	03:33:02	15.17	7.93	NA	NA	340	NA
19407	Ptown	2022-10-25	03:48:02	15.20	7.94	NA	NA	340	NA
19408	Ptown	2022-10-25	04:03:02	15.20	7.94	NA	NA	340	NA
19409	Ptown	2022-10-25	04:18:02	15.20	7.93	NA	NA	340	NA
19410	Ptown	2022-10-25	04:33:02	15.20	7.89	NA	NA	340	NA

19411	Ptown	2022-10-25	04:48:02	15.22	7.89	NA	NA	340	NA
19412	Ptown	2022-10-25	05:03:02	15.22	7.86	NA	NA	340	NA
19413	Ptown	2022-10-25	05:18:02	15.20	7.81	NA	NA	340	NA
19414	Ptown	2022-10-25	05:33:02	15.20	7.76	NA	NA	340	NA
19415	Ptown	2022-10-25	05:48:02	15.20	7.69	NA	NA	340	NA
19416	Ptown	2022-10-25	06:03:02	15.20	7.64	NA	NA	340	NA
19417	Ptown	2022-10-25	06:18:02	15.22	7.42	NA	NA	340	NA
19418	Ptown	2022-10-25	06:33:02	15.22	7.74	NA	NA	340	NA
19419	Ptown	2022-10-25	06:48:02	15.22	7.78	NA	NA	340	NA
19420	Ptown	2022-10-25	07:03:02	15.22	7.84	NA	NA	340	NA
19421	Ptown	2022-10-25	07:18:02	15.20	7.90	NA	NA	340	NA
19422	Ptown	2022-10-25	07:33:02	15.20	7.92	NA	NA	340	NA
19423	Ptown	2022-10-25	07:48:02	15.20	7.93	NA	NA	340	NA
19424	Ptown	2022-10-25	08:03:02	15.20	7.92	NA	NA	340	NA
19425	Ptown	2022-10-25	08:18:02	15.20	7.93	NA	NA	340	NA
19426	Ptown	2022-10-25	08:33:02	15.20	7.91	NA	NA	340	NA
19427	Ptown	2022-10-25	08:48:02	15.20	7.91	NA	NA	340	NA
19428	Ptown	2022-10-25	09:03:02	15.20	7.95	NA	NA	340	NA
19429	Ptown	2022-10-25	09:18:02	15.20	7.91	NA	NA	340	NA
19430	Ptown	2022-10-25	09:33:02	15.20	7.92	NA	NA	340	NA
19431	Ptown	2022-10-25	09:48:02	15.20	7.93	NA	NA	340	NA
19432	Ptown	2022-10-25	10:03:02	15.20	7.92	NA	NA	340	NA
19433	Ptown	2022-10-25	10:18:02	15.20	7.92	NA	NA	340	NA
19434	Ptown	2022-10-25	10:33:02	15.20	7.92	NA	NA	340	NA
19435	Ptown	2022-10-25	10:48:02	15.22	7.95	NA	NA	340	NA
19436	Ptown	2022-10-25	11:03:02	15.27	7.95	NA	NA	340	NA
19437	Ptown	2022-10-25	11:18:02	15.29	7.96	NA	NA	340	NA
19438	Ptown	2022-10-25	11:33:02	15.29	7.96	NA	NA	340	NA
19439	Ptown	2022-10-25	11:48:02	15.29	7.98	NA	NA	340	NA
19440	Ptown	2022-10-25	12:03:02	15.27	7.97	NA	NA	340	NA
19441	Ptown	2022-10-25	12:18:02	15.25	7.95	NA	NA	340	NA
19442	Ptown	2022-10-25	12:33:02	15.25	7.96	NA	NA	340	NA
19443	Ptown	2022-10-25	12:48:02	15.29	7.99	NA	NA	340	NA
19444	Ptown	2022-10-25	13:03:02	15.32	8.00	NA	NA	340	NA
19445	Ptown	2022-10-25	13:18:02	15.34	8.00	NA	NA	340	NA
19446	Ptown	2022-10-25	13:33:02	15.39	8.01	NA	NA	340	NA
19447	Ptown	2022-10-25	13:48:02	15.44	8.02	NA	NA	340	NA
19448	Ptown	2022-10-25	14:03:02	15.49	8.04	NA	NA	340	NA
19449	Ptown	2022-10-25	14:18:02	15.53	8.04	NA	NA	340	NA
19450	Ptown	2022-10-25	14:33:02	15.56	8.04	NA	NA	340	NA
19451	Ptown	2022-10-25	14:48:02	15.58	8.05	NA	NA	340	NA

19452	Ptown	2022-10-25	15:03:02	15.56	8.05	NA	NA	340	NA
19453	Ptown	2022-10-25	15:18:02	15.56	8.08	NA	NA	340	NA
19454	Ptown	2022-10-25	15:33:02	15.60	8.08	NA	NA	340	NA
19455	Ptown	2022-10-25	15:48:02	15.70	8.09	NA	NA	340	NA
19456	Ptown	2022-10-25	16:03:02	15.82	8.10	NA	NA	340	NA
19457	Ptown	2022-10-25	16:18:02	15.91	8.12	NA	NA	340	NA
19458	Ptown	2022-10-25	16:33:02	16.06	8.16	NA	NA	340	NA
19459	Ptown	2022-10-25	16:48:02	16.18	8.16	NA	NA	340	NA
19460	Ptown	2022-10-25	17:03:02	16.34	8.21	NA	NA	340	NA
19461	Ptown	2022-10-25	17:18:02	16.46	8.32	NA	NA	340	NA
19462	Ptown	2022-10-25	17:33:02	16.46	8.16	NA	NA	340	NA
19463	Ptown	2022-10-25	17:48:02	16.44	8.04	NA	NA	340	NA
19464	Ptown	2022-10-25	18:03:02	16.42	8.03	NA	NA	340	NA
19465	Ptown	2022-10-25	18:18:02	16.34	7.98	NA	NA	340	NA
19466	Ptown	2022-10-25	18:33:02	16.22	7.95	NA	NA	340	NA
19467	Ptown	2022-10-25	18:48:02	16.03	7.94	NA	NA	340	NA
19468	Ptown	2022-10-25	19:03:02	15.65	7.77	NA	NA	340	NA
19469	Ptown	2022-10-25	19:18:02	15.89	8.12	NA	NA	340	NA
19470	Ptown	2022-10-25	19:33:02	15.99	8.10	NA	NA	340	NA
19471	Ptown	2022-10-25	19:48:02	15.91	8.12	NA	NA	340	NA
19472	Ptown	2022-10-25	20:03:02	15.87	8.10	NA	NA	340	NA
19473	Ptown	2022-10-25	20:18:02	15.89	8.09	NA	NA	340	NA
19474	Ptown	2022-10-25	20:33:02	15.89	8.10	NA	NA	340	NA
19475	Ptown	2022-10-25	20:48:02	15.82	8.05	NA	NA	340	NA
19476	Ptown	2022-10-25	21:03:02	15.82	8.05	NA	NA	340	NA
19477	Ptown	2022-10-25	21:18:02	15.82	8.04	NA	NA	340	NA
19478	Ptown	2022-10-25	21:33:02	15.70	8.01	NA	NA	340	NA
19479	Ptown	2022-10-25	21:48:02	15.65	8.01	NA	NA	340	NA
19480	Ptown	2022-10-25	22:03:02	15.65	8.00	NA	NA	340	NA
19481	Ptown	2022-10-25	22:18:02	15.65	8.00	NA	NA	340	NA
19482	Ptown	2022-10-25	22:33:02	15.68	7.98	NA	NA	340	NA
19483	Ptown	2022-10-25	22:48:02	15.68	7.98	NA	NA	340	NA
19484	Ptown	2022-10-25	23:03:02	15.68	7.98	NA	NA	340	NA
19485	Ptown	2022-10-25	23:18:02	15.72	7.98	NA	NA	340	NA
19486	Ptown	2022-10-25	23:33:02	15.70	8.01	NA	NA	340	NA
19487	Ptown	2022-10-25	23:48:02	15.72	7.99	NA	NA	340	NA
19488	Ptown	2022-10-26	00:03:02	15.72	7.98	NA	NA	340	NA
19489	Ptown	2022-10-26	00:18:02	15.72	8.01	NA	NA	340	NA
19490	Ptown	2022-10-26	00:33:02	15.72	8.01	NA	NA	340	NA
19491	Ptown	2022-10-26	00:48:02	15.72	8.00	NA	NA	340	NA
19492	Ptown	2022-10-26	01:03:02	15.72	7.99	NA	NA	340	NA

19493	Ptown	2022-10-26	01:18:02	15.70	7.99	NA	NA	340	NA
19494	Ptown	2022-10-26	01:33:02	15.70	7.99	NA	NA	340	NA
19495	Ptown	2022-10-26	01:48:02	15.70	7.97	NA	NA	340	NA
19496	Ptown	2022-10-26	02:03:02	15.72	7.98	NA	NA	340	NA
19497	Ptown	2022-10-26	02:18:02	15.72	7.98	NA	NA	340	NA
19498	Ptown	2022-10-26	02:33:02	15.75	7.98	NA	NA	340	NA
19499	Ptown	2022-10-26	02:48:02	15.75	7.99	NA	NA	340	NA
19500	Ptown	2022-10-26	03:03:02	15.75	7.99	NA	NA	340	NA
19501	Ptown	2022-10-26	03:18:02	15.75	7.98	NA	NA	340	NA
19502	Ptown	2022-10-26	03:33:02	15.77	7.97	NA	NA	340	NA
19503	Ptown	2022-10-26	03:48:02	15.77	7.97	NA	NA	340	NA
19504	Ptown	2022-10-26	04:03:02	15.77	7.97	NA	NA	340	NA
19505	Ptown	2022-10-26	04:18:02	15.80	7.97	NA	NA	340	NA
19506	Ptown	2022-10-26	04:33:02	15.80	7.97	NA	NA	340	NA
19507	Ptown	2022-10-26	04:48:02	15.80	7.96	NA	NA	340	NA
19508	Ptown	2022-10-26	05:03:02	15.80	7.95	NA	NA	340	NA
19509	Ptown	2022-10-26	05:18:02	15.80	7.94	NA	NA	340	NA
19510	Ptown	2022-10-26	05:33:02	15.80	7.92	NA	NA	340	NA
19511	Ptown	2022-10-26	05:48:02	15.80	7.88	NA	NA	340	NA
19512	Ptown	2022-10-26	06:03:02	15.82	7.77	NA	NA	340	NA
19513	Ptown	2022-10-26	06:18:02	15.82	7.65	NA	NA	340	NA
19514	Ptown	2022-10-26	06:33:02	15.82	7.59	NA	NA	340	NA
19515	Ptown	2022-10-26	06:48:02	15.82	7.54	NA	NA	340	NA
19516	Ptown	2022-10-26	07:03:02	15.89	7.53	NA	NA	340	NA
19517	Ptown	2022-10-26	07:18:02	15.87	7.70	NA	NA	340	NA
19518	Ptown	2022-10-26	07:33:02	15.82	7.80	NA	NA	340	NA
19519	Ptown	2022-10-26	07:48:02	15.80	7.89	NA	NA	340	NA
19520	Ptown	2022-10-26	08:03:02	15.80	7.89	NA	NA	340	NA
19521	Ptown	2022-10-26	08:18:02	15.77	7.90	NA	NA	340	NA
19522	Ptown	2022-10-26	08:33:02	15.77	7.91	NA	NA	340	NA
19523	Ptown	2022-10-26	08:48:02	15.77	7.89	NA	NA	340	NA
19524	Ptown	2022-10-26	09:03:02	15.77	7.88	NA	NA	340	NA
19525	Ptown	2022-10-26	09:18:02	15.77	7.89	NA	NA	340	NA
19526	Ptown	2022-10-26	09:33:02	15.77	7.89	NA	NA	340	NA
19527	Ptown	2022-10-26	09:48:02	15.75	7.90	NA	NA	340	NA
19528	Ptown	2022-10-26	10:03:02	15.75	7.90	NA	NA	340	NA
19529	Ptown	2022-10-26	10:18:02	15.75	7.92	NA	NA	340	NA
19530	Ptown	2022-10-26	10:33:02	15.75	7.89	NA	NA	340	NA
19531	Ptown	2022-10-26	10:48:02	15.72	7.91	NA	NA	340	NA
19532	Ptown	2022-10-26	11:03:02	15.72	7.92	NA	NA	340	NA
19533	Ptown	2022-10-26	11:18:02	15.72	7.88	NA	NA	340	NA

19534	Ptown	2022-10-26	11:33:02	15.75	7.88	NA	NA	340	NA
19535	Ptown	2022-10-26	11:48:02	15.75	7.87	NA	NA	340	NA
19536	Ptown	2022-10-26	12:03:02	15.75	7.90	NA	NA	340	NA
19537	Ptown	2022-10-26	12:18:02	15.77	7.92	NA	NA	340	NA
19538	Ptown	2022-10-26	12:33:02	15.77	7.91	NA	NA	340	NA
19539	Ptown	2022-10-26	12:48:02	15.80	7.93	NA	NA	340	NA
19540	Ptown	2022-10-26	13:03:02	15.80	7.94	NA	NA	340	NA
19541	Ptown	2022-10-26	13:18:02	15.80	7.93	NA	NA	340	NA
19542	Ptown	2022-10-26	13:33:02	15.82	7.93	NA	NA	340	NA
19543	Ptown	2022-10-26	13:48:02	15.84	7.96	NA	NA	340	NA
19544	Ptown	2022-10-26	14:03:02	15.87	7.96	NA	NA	340	NA
19545	Ptown	2022-10-26	14:18:02	15.89	7.97	NA	NA	340	NA
19546	Ptown	2022-10-26	14:33:02	15.91	7.98	NA	NA	340	NA
19547	Ptown	2022-10-26	14:48:02	15.99	7.99	NA	NA	340	NA
19548	Ptown	2022-10-26	15:03:02	16.03	7.99	NA	NA	340	NA
19549	Ptown	2022-10-26	15:18:02	16.06	7.99	NA	NA	340	NA
19550	Ptown	2022-10-26	15:33:02	16.11	8.01	NA	NA	340	NA
19551	Ptown	2022-10-26	15:48:02	16.15	7.98	NA	NA	340	NA
19552	Ptown	2022-10-26	16:03:02	16.20	7.97	NA	NA	340	NA
19553	Ptown	2022-10-26	16:18:02	16.20	7.97	NA	NA	340	NA
19554	Ptown	2022-10-26	16:33:02	16.30	7.97	NA	NA	340	NA
19555	Ptown	2022-10-26	16:48:02	16.34	7.98	NA	NA	340	NA
19556	Ptown	2022-10-26	17:03:02	16.30	8.02	NA	NA	340	NA
19557	Ptown	2022-10-26	17:18:02	16.27	8.04	NA	NA	340	NA
19558	Ptown	2022-10-26	17:33:02	16.25	8.00	NA	NA	340	NA
19559	Ptown	2022-10-26	17:48:02	16.22	7.87	NA	NA	340	NA
19560	Ptown	2022-10-26	18:03:02	16.06	7.88	NA	NA	340	NA
19561	Ptown	2022-10-26	18:18:02	15.70	7.88	NA	NA	340	NA
19562	Ptown	2022-10-26	18:33:02	15.37	7.86	NA	NA	340	NA
19563	Ptown	2022-10-26	18:48:02	15.25	7.88	NA	NA	340	NA
19564	Ptown	2022-10-26	19:03:02	15.15	7.89	NA	NA	340	NA
19565	Ptown	2022-10-26	19:18:02	15.13	7.88	NA	NA	340	NA
19566	Ptown	2022-10-26	19:33:02	15.20	7.42	NA	NA	340	NA
19567	Ptown	2022-10-26	19:48:02	15.20	7.39	NA	NA	340	NA
19568	Ptown	2022-10-26	20:03:02	15.60	7.71	NA	NA	340	NA
19569	Ptown	2022-10-26	20:18:02	15.80	7.88	NA	NA	340	NA
19570	Ptown	2022-10-26	20:33:02	15.96	7.91	NA	NA	340	NA
19571	Ptown	2022-10-26	20:48:02	15.99	7.93	NA	NA	340	NA
19572	Ptown	2022-10-26	21:03:02	16.11	7.93	NA	NA	340	NA
19573	Ptown	2022-10-26	21:18:02	16.13	7.91	NA	NA	340	NA
19574	Ptown	2022-10-26	21:33:02	16.18	7.91	NA	NA	340	NA

19575	Ptown	2022-10-26	21:48:02	16.18	7.91	NA	NA	340	NA
19576	Ptown	2022-10-26	22:03:02	16.18	7.90	NA	NA	340	NA
19577	Ptown	2022-10-26	22:18:02	16.15	7.89	NA	NA	340	NA
19578	Ptown	2022-10-26	22:33:02	16.15	7.88	NA	NA	340	NA
19579	Ptown	2022-10-26	22:48:02	16.15	7.87	NA	NA	340	NA
19580	Ptown	2022-10-26	23:03:02	16.13	7.88	NA	NA	340	NA
19581	Ptown	2022-10-26	23:18:02	16.13	7.89	NA	NA	340	NA
19582	Ptown	2022-10-26	23:33:02	16.11	7.90	NA	NA	340	NA
19583	Ptown	2022-10-26	23:48:02	16.11	7.88	NA	NA	340	NA
19584	Ptown	2022-10-27	00:03:02	16.08	7.90	NA	NA	340	NA
19585	Ptown	2022-10-27	00:18:02	16.06	7.88	NA	NA	340	NA
19586	Ptown	2022-10-27	00:33:02	16.06	7.89	NA	NA	340	NA
19587	Ptown	2022-10-27	00:48:02	16.06	7.91	NA	NA	340	NA
19588	Ptown	2022-10-27	01:03:02	16.03	7.92	NA	NA	340	NA
19589	Ptown	2022-10-27	01:18:02	16.01	7.95	NA	NA	340	NA
19590	Ptown	2022-10-27	01:33:02	16.01	7.94	NA	NA	340	NA
19591	Ptown	2022-10-27	01:48:02	16.01	7.96	NA	NA	340	NA
19592	Ptown	2022-10-27	02:03:02	16.01	7.98	NA	NA	340	NA
19593	Ptown	2022-10-27	02:18:02	16.03	7.98	NA	NA	340	NA
19594	Ptown	2022-10-27	02:33:02	16.06	7.98	NA	NA	340	NA
19595	Ptown	2022-10-27	02:48:02	16.06	7.98	NA	NA	340	NA
19596	Ptown	2022-10-27	03:03:02	16.03	7.98	NA	NA	340	NA
19597	Ptown	2022-10-27	03:18:02	16.03	7.98	NA	NA	340	NA
19598	Ptown	2022-10-27	03:33:02	16.03	7.97	NA	NA	340	NA
19599	Ptown	2022-10-27	03:48:02	16.03	7.96	NA	NA	340	NA
19600	Ptown	2022-10-27	04:03:02	16.03	7.95	NA	NA	340	NA
19601	Ptown	2022-10-27	04:18:02	16.01	7.95	NA	NA	340	NA
19602	Ptown	2022-10-27	04:33:02	15.96	7.95	NA	NA	340	NA
19603	Ptown	2022-10-27	04:48:02	15.96	7.94	NA	NA	340	NA
19604	Ptown	2022-10-27	05:03:02	15.94	7.92	NA	NA	340	NA
19605	Ptown	2022-10-27	05:18:02	15.91	7.88	NA	NA	340	NA
19606	Ptown	2022-10-27	05:33:02	15.84	7.82	NA	NA	340	NA
19607	Ptown	2022-10-27	05:48:02	15.75	7.66	NA	NA	340	NA
19608	Ptown	2022-10-27	06:03:02	15.63	7.63	NA	NA	340	NA
19609	Ptown	2022-10-27	06:18:02	15.53	7.55	NA	NA	340	NA
19610	Ptown	2022-10-27	06:33:02	15.34	7.57	NA	NA	340	NA
19611	Ptown	2022-10-27	06:48:02	15.25	7.42	NA	NA	340	NA
19612	Ptown	2022-10-27	07:03:02	15.25	7.39	NA	NA	340	NA
19613	Ptown	2022-10-27	07:18:02	14.89	7.43	NA	NA	340	NA
19614	Ptown	2022-10-27	07:33:02	15.25	7.55	NA	NA	340	NA
19615	Ptown	2022-10-27	07:48:02	15.46	7.79	NA	NA	340	NA

19616	Ptown	2022-10-27	08:03:02	15.56	7.85	NA	NA	340	NA
19617	Ptown	2022-10-27	08:18:02	15.53	7.84	NA	NA	340	NA
19618	Ptown	2022-10-27	08:33:02	15.65	7.90	NA	NA	340	NA
19619	Ptown	2022-10-27	08:48:02	15.70	7.92	NA	NA	340	NA
19620	Ptown	2022-10-27	09:03:02	15.77	7.95	NA	NA	340	NA
19621	Ptown	2022-10-27	09:18:02	15.82	7.96	NA	NA	340	NA
19622	Ptown	2022-10-27	09:33:02	15.87	7.97	NA	NA	340	NA
19623	Ptown	2022-10-27	09:48:02	15.89	7.97	NA	NA	340	NA
19624	Ptown	2022-10-27	10:03:02	15.91	7.97	NA	NA	340	NA
19625	Ptown	2022-10-27	10:18:02	15.96	7.98	NA	NA	340	NA
19626	Ptown	2022-10-27	10:33:02	15.99	7.98	NA	NA	340	NA
19627	Ptown	2022-10-27	10:48:02	16.01	7.99	NA	NA	340	NA
19628	Ptown	2022-10-27	11:03:02	15.99	7.98	NA	NA	340	NA
19629	Ptown	2022-10-27	11:18:02	15.96	7.99	NA	NA	340	NA
19630	Ptown	2022-10-27	11:33:02	15.96	7.99	NA	NA	340	NA
19631	Ptown	2022-10-27	11:48:02	15.99	7.99	NA	NA	340	NA
19632	Ptown	2022-10-27	12:03:02	15.99	7.99	NA	NA	340	NA
19633	Ptown	2022-10-27	12:18:02	16.01	7.99	NA	NA	340	NA
19634	Ptown	2022-10-27	12:33:02	16.03	7.99	NA	NA	340	NA
19635	Ptown	2022-10-27	12:48:02	16.03	7.98	NA	NA	340	NA
19636	Ptown	2022-10-27	13:03:02	16.03	7.99	NA	NA	340	NA
19637	Ptown	2022-10-27	13:18:02	16.06	8.00	NA	NA	340	NA
19638	Ptown	2022-10-27	13:33:02	16.08	8.00	NA	NA	340	NA
19639	Ptown	2022-10-27	13:48:02	16.06	8.00	NA	NA	340	NA
19640	Ptown	2022-10-27	14:03:02	16.11	8.00	NA	NA	340	NA
19641	Ptown	2022-10-27	14:18:02	16.11	8.00	NA	NA	340	NA
19642	Ptown	2022-10-27	14:33:02	16.11	8.00	NA	NA	340	NA
19643	Ptown	2022-10-27	14:48:02	16.08	7.99	NA	NA	340	NA
19644	Ptown	2022-10-27	15:03:02	16.11	8.00	NA	NA	340	NA
19645	Ptown	2022-10-27	15:18:02	16.11	8.01	NA	NA	340	NA
19646	Ptown	2022-10-27	15:33:02	16.13	8.00	NA	NA	340	NA
19647	Ptown	2022-10-27	15:48:02	16.11	8.01	NA	NA	340	NA
19648	Ptown	2022-10-27	16:03:02	16.11	8.01	NA	NA	340	NA
19649	Ptown	2022-10-27	16:18:02	16.11	8.02	NA	NA	340	NA
19650	Ptown	2022-10-27	16:33:02	16.08	8.02	NA	NA	340	NA
19651	Ptown	2022-10-27	16:48:02	16.06	8.02	NA	NA	340	NA
19652	Ptown	2022-10-27	17:03:02	16.03	8.02	NA	NA	340	NA
19653	Ptown	2022-10-27	17:18:02	16.03	8.03	NA	NA	340	NA
19654	Ptown	2022-10-27	17:33:02	15.96	8.05	NA	NA	340	NA
19655	Ptown	2022-10-27	17:48:02	15.94	8.06	NA	NA	340	NA
19656	Ptown	2022-10-27	18:03:02	15.84	8.05	NA	NA	340	NA

19657	Ptown	2022-10-27	18:18:02	15.46	8.03	NA	NA	340	NA
19658	Ptown	2022-10-27	18:33:02	14.72	7.98	NA	NA	340	NA
19659	Ptown	2022-10-27	18:48:02	13.06	7.93	NA	NA	340	NA
19660	Ptown	2022-10-27	19:03:02	12.87	7.91	NA	NA	340	NA
19661	Ptown	2022-10-27	19:18:02	12.75	7.87	NA	NA	340	NA
19662	Ptown	2022-10-27	19:33:02	12.51	7.83	NA	NA	340	NA
19663	Ptown	2022-10-27	19:48:02	12.36	7.70	NA	NA	340	NA
19664	Ptown	2022-10-27	20:03:02	12.27	7.69	NA	NA	340	NA
19665	Ptown	2022-10-27	20:18:02	12.15	7.75	NA	NA	340	NA
19666	Ptown	2022-10-27	20:33:02	12.15	7.61	NA	NA	340	NA
19667	Ptown	2022-10-27	20:48:02	12.15	7.57	NA	NA	340	NA
19668	Ptown	2022-10-27	21:03:02	13.28	7.89	NA	NA	340	NA
19669	Ptown	2022-10-27	21:18:02	14.12	8.01	NA	NA	340	NA
19670	Ptown	2022-10-27	21:33:02	13.55	7.97	NA	NA	340	NA
19671	Ptown	2022-10-27	21:48:02	14.36	8.00	NA	NA	340	NA
19672	Ptown	2022-10-27	22:03:02	14.53	7.98	NA	NA	340	NA
19673	Ptown	2022-10-27	22:18:02	14.58	7.97	NA	NA	340	NA
19674	Ptown	2022-10-27	22:33:02	14.55	7.97	NA	NA	340	NA
19675	Ptown	2022-10-27	22:48:02	14.55	7.96	NA	NA	340	NA
19676	Ptown	2022-10-27	23:03:02	14.53	7.96	NA	NA	340	NA
19677	Ptown	2022-10-27	23:18:02	14.51	7.96	NA	NA	340	NA
19678	Ptown	2022-10-27	23:33:02	14.46	7.96	NA	NA	340	NA
19679	Ptown	2022-10-27	23:48:02	14.43	7.96	NA	NA	340	NA
19680	Ptown	2022-10-28	00:03:02	14.41	7.96	NA	NA	340	NA
19681	Ptown	2022-10-28	00:18:02	14.39	7.96	NA	NA	340	NA
19682	Ptown	2022-10-28	00:33:02	14.36	7.96	NA	NA	340	NA
19683	Ptown	2022-10-28	00:48:02	14.34	7.96	NA	NA	340	NA
19684	Ptown	2022-10-28	01:03:02	14.31	7.95	NA	NA	340	NA
19685	Ptown	2022-10-28	01:18:02	14.27	7.94	NA	NA	340	NA
19686	Ptown	2022-10-28	01:33:02	14.22	7.94	NA	NA	340	NA
19687	Ptown	2022-10-28	01:48:02	14.19	7.94	NA	NA	340	NA
19688	Ptown	2022-10-28	02:03:02	14.12	7.95	NA	NA	340	NA
19689	Ptown	2022-10-28	02:18:02	14.10	7.95	NA	NA	340	NA
19690	Ptown	2022-10-28	02:33:02	14.10	7.95	NA	NA	340	NA
19691	Ptown	2022-10-28	02:48:02	14.05	7.95	NA	NA	340	NA
19692	Ptown	2022-10-28	03:03:02	14.03	7.94	NA	NA	340	NA
19693	Ptown	2022-10-28	03:18:02	13.95	7.95	NA	NA	340	NA
19694	Ptown	2022-10-28	03:33:02	13.93	7.95	NA	NA	340	NA
19695	Ptown	2022-10-28	03:48:02	13.91	7.94	NA	NA	340	NA
19696	Ptown	2022-10-28	04:03:02	13.86	7.94	NA	NA	340	NA
19697	Ptown	2022-10-28	04:18:02	13.81	7.94	NA	NA	340	NA

19698	Ptown	2022-10-28	04:33:02	13.76	7.93	NA	NA	340	NA
19699	Ptown	2022-10-28	04:48:02	13.67	7.94	NA	NA	340	NA
19700	Ptown	2022-10-28	05:03:02	13.57	7.93	NA	NA	340	NA
19701	Ptown	2022-10-28	05:18:02	13.47	7.92	NA	NA	340	NA
19702	Ptown	2022-10-28	05:33:02	13.40	7.93	NA	NA	340	NA
19703	Ptown	2022-10-28	05:48:02	13.35	7.92	NA	NA	340	NA
19704	Ptown	2022-10-28	06:03:02	13.28	7.94	NA	NA	340	NA
19705	Ptown	2022-10-28	06:18:02	13.18	7.93	NA	NA	340	NA
19706	Ptown	2022-10-28	06:33:02	12.99	7.93	NA	NA	340	NA
19707	Ptown	2022-10-28	06:48:02	12.80	7.92	NA	NA	340	NA
19708	Ptown	2022-10-28	07:03:02	12.58	7.91	NA	NA	340	NA
19709	Ptown	2022-10-28	07:18:02	12.39	7.90	NA	NA	340	NA
19710	Ptown	2022-10-28	07:33:02	12.17	7.91	NA	NA	340	NA
19711	Ptown	2022-10-28	07:48:02	11.47	7.80	NA	NA	340	NA
19712	Ptown	2022-10-28	08:03:02	10.74	7.74	NA	NA	340	NA
19713	Ptown	2022-10-28	08:18:02	10.74	7.72	NA	NA	340	NA
19714	Ptown	2022-10-28	08:33:02	11.32	7.94	NA	NA	340	NA
19715	Ptown	2022-10-28	08:48:02	12.07	7.99	NA	NA	340	NA
19716	Ptown	2022-10-28	09:03:02	12.53	7.98	NA	NA	340	NA
19717	Ptown	2022-10-28	09:18:02	12.90	8.00	NA	NA	340	NA
19718	Ptown	2022-10-28	09:33:02	13.11	8.01	NA	NA	340	NA
19719	Ptown	2022-10-28	09:48:02	13.23	8.00	NA	NA	340	NA
19720	Ptown	2022-10-28	10:03:02	13.31	8.00	NA	NA	340	NA
19721	Ptown	2022-10-28	10:18:02	13.43	8.00	NA	NA	340	NA
19722	Ptown	2022-10-28	10:33:02	13.47	7.99	NA	NA	340	NA
19723	Ptown	2022-10-28	10:48:02	13.52	8.00	NA	NA	340	NA
19724	Ptown	2022-10-28	11:03:02	13.59	8.00	NA	NA	340	NA
19725	Ptown	2022-10-28	11:18:02	13.64	8.00	NA	NA	340	NA
19726	Ptown	2022-10-28	11:33:02	13.67	8.00	NA	NA	340	NA
19727	Ptown	2022-10-28	11:48:02	13.69	8.00	NA	NA	340	NA
19728	Ptown	2022-10-28	12:03:02	13.71	8.00	NA	NA	340	NA
19729	Ptown	2022-10-28	12:18:02	13.76	8.00	NA	NA	340	NA
19730	Ptown	2022-10-28	12:33:02	13.81	8.00	NA	NA	340	NA
19731	Ptown	2022-10-28	12:48:02	13.83	8.00	NA	NA	340	NA
19732	Ptown	2022-10-28	13:03:02	13.86	8.00	NA	NA	340	NA
19733	Ptown	2022-10-28	13:18:02	13.88	8.00	NA	NA	340	NA
19734	Ptown	2022-10-28	13:33:02	13.88	8.00	NA	NA	340	NA
19735	Ptown	2022-10-28	13:48:02	13.88	8.00	NA	NA	340	NA
19736	Ptown	2022-10-28	14:03:02	13.93	7.99	NA	NA	340	NA
19737	Ptown	2022-10-28	14:18:02	13.95	7.99	NA	NA	340	NA
19738	Ptown	2022-10-28	14:33:02	13.95	7.99	NA	NA	340	NA

19739	Ptown	2022-10-28	14:48:02	13.95	7.98	NA	NA	340	NA
19740	Ptown	2022-10-28	15:03:02	13.95	7.97	NA	NA	340	NA
19741	Ptown	2022-10-28	15:18:02	13.93	7.98	NA	NA	340	NA
19742	Ptown	2022-10-28	15:33:02	13.93	7.99	NA	NA	340	NA
19743	Ptown	2022-10-28	15:48:02	13.91	7.99	NA	NA	340	NA
19744	Ptown	2022-10-28	16:03:02	13.91	8.00	NA	NA	340	NA
19745	Ptown	2022-10-28	16:18:02	13.91	8.00	NA	NA	340	NA
19746	Ptown	2022-10-28	16:33:02	13.88	8.01	NA	NA	340	NA
19747	Ptown	2022-10-28	16:48:02	13.88	8.01	NA	NA	340	NA
19748	Ptown	2022-10-28	17:03:02	13.86	8.02	NA	NA	340	NA
19749	Ptown	2022-10-28	17:18:02	13.83	8.01	NA	NA	340	NA
19750	Ptown	2022-10-28	17:33:02	13.79	8.02	NA	NA	340	NA
19751	Ptown	2022-10-28	17:48:02	13.71	8.02	NA	NA	340	NA
19752	Ptown	2022-10-28	18:03:02	13.67	8.02	NA	NA	340	NA
19753	Ptown	2022-10-28	18:18:02	13.57	8.03	NA	NA	340	NA
19754	Ptown	2022-10-28	18:33:02	13.40	8.04	NA	NA	340	NA
19755	Ptown	2022-10-28	18:48:02	13.23	8.03	NA	NA	340	NA
19756	Ptown	2022-10-28	19:03:02	12.94	8.03	NA	NA	340	NA
19757	Ptown	2022-10-28	19:18:02	11.47	8.03	NA	NA	340	NA
19758	Ptown	2022-10-28	19:33:02	9.48	7.88	NA	NA	340	NA
19759	Ptown	2022-10-28	19:48:02	8.87	7.86	NA	NA	340	NA
19760	Ptown	2022-10-28	20:03:02	8.59	7.86	NA	NA	340	NA
19761	Ptown	2022-10-28	20:18:02	8.39	7.88	NA	NA	340	NA
19762	Ptown	2022-10-28	20:33:02	8.27	7.85	NA	NA	340	NA
19763	Ptown	2022-10-28	20:48:02	8.24	7.89	NA	NA	340	NA
19764	Ptown	2022-10-28	21:03:02	8.27	7.89	NA	NA	340	NA
19765	Ptown	2022-10-28	21:18:02	8.27	7.88	NA	NA	340	NA
19766	Ptown	2022-10-28	21:33:02	9.36	7.83	NA	NA	340	NA
19767	Ptown	2022-10-28	21:48:02	10.17	7.78	NA	NA	340	NA
19768	Ptown	2022-10-28	22:03:02	11.44	7.91	NA	NA	340	NA
19769	Ptown	2022-10-28	22:18:02	11.66	7.92	NA	NA	340	NA
19770	Ptown	2022-10-28	22:33:02	12.36	7.99	NA	NA	340	NA
19771	Ptown	2022-10-28	22:48:02	12.61	8.00	NA	NA	340	NA
19772	Ptown	2022-10-28	23:03:02	12.53	8.00	NA	NA	340	NA
19773	Ptown	2022-10-28	23:18:02	12.24	8.00	NA	NA	340	NA
19774	Ptown	2022-10-28	23:33:02	12.29	7.99	NA	NA	340	NA
19775	Ptown	2022-10-28	23:48:02	12.34	7.99	NA	NA	340	NA
19776	Ptown	2022-10-29	00:03:02	12.51	7.98	NA	NA	340	NA
19777	Ptown	2022-10-29	00:18:02	12.49	7.96	NA	NA	340	NA
19778	Ptown	2022-10-29	00:33:02	12.63	7.96	NA	NA	340	NA
19779	Ptown	2022-10-29	00:48:02	12.77	7.94	NA	NA	340	NA

19780	Ptown	2022-10-29	01:03:02	12.80	7.93	NA	NA	340	NA
19781	Ptown	2022-10-29	01:18:02	12.77	7.92	NA	NA	340	NA
19782	Ptown	2022-10-29	01:33:02	12.77	7.92	NA	NA	340	NA
19783	Ptown	2022-10-29	01:48:02	12.75	7.91	NA	NA	340	NA
19784	Ptown	2022-10-29	02:03:02	12.75	7.91	NA	NA	340	NA
19785	Ptown	2022-10-29	02:18:02	12.65	7.92	NA	NA	340	NA
19786	Ptown	2022-10-29	02:33:02	12.68	7.90	NA	NA	340	NA
19787	Ptown	2022-10-29	02:48:02	12.68	7.91	NA	NA	340	NA
19788	Ptown	2022-10-29	03:03:02	12.61	7.91	NA	NA	340	NA
19789	Ptown	2022-10-29	03:18:02	12.63	7.90	NA	NA	340	NA
19790	Ptown	2022-10-29	03:33:02	12.63	7.88	NA	NA	340	NA
19791	Ptown	2022-10-29	03:48:02	12.61	7.90	NA	NA	340	NA
19792	Ptown	2022-10-29	04:03:02	12.58	7.88	NA	NA	340	NA
19793	Ptown	2022-10-29	04:18:02	12.46	7.87	NA	NA	340	NA
19794	Ptown	2022-10-29	04:33:02	12.44	7.85	NA	NA	340	NA
19795	Ptown	2022-10-29	04:48:02	12.41	7.85	NA	NA	340	NA
19796	Ptown	2022-10-29	05:03:02	12.39	7.86	NA	NA	340	NA
19797	Ptown	2022-10-29	05:18:02	12.34	7.84	NA	NA	340	NA
19798	Ptown	2022-10-29	05:33:02	12.29	7.82	NA	NA	340	NA
19799	Ptown	2022-10-29	05:48:02	12.27	7.82	NA	NA	340	NA
19800	Ptown	2022-10-29	06:03:02	12.19	7.85	NA	NA	340	NA
19801	Ptown	2022-10-29	06:18:02	12.12	7.85	NA	NA	340	NA
19802	Ptown	2022-10-29	06:33:02	12.05	7.86	NA	NA	340	NA
19803	Ptown	2022-10-29	06:48:02	11.88	7.87	NA	NA	340	NA
19804	Ptown	2022-10-29	07:03:02	11.78	7.86	NA	NA	340	NA
19805	Ptown	2022-10-29	07:18:02	11.71	7.84	NA	NA	340	NA
19806	Ptown	2022-10-29	07:33:02	11.61	7.82	NA	NA	340	NA
19807	Ptown	2022-10-29	07:48:02	11.56	7.81	NA	NA	340	NA
19808	Ptown	2022-10-29	08:03:02	11.30	7.78	NA	NA	340	NA
19809	Ptown	2022-10-29	08:18:02	11.15	7.77	NA	NA	340	NA
19810	Ptown	2022-10-29	08:33:02	11.00	7.72	NA	NA	340	NA
19811	Ptown	2022-10-29	08:48:02	11.13	7.81	NA	NA	340	NA
19812	Ptown	2022-10-29	09:03:02	11.25	7.88	NA	NA	340	NA
19813	Ptown	2022-10-29	09:18:02	11.52	7.88	NA	NA	340	NA
19814	Ptown	2022-10-29	09:33:02	11.71	7.89	NA	NA	340	NA
19815	Ptown	2022-10-29	09:48:02	11.90	7.82	NA	NA	340	NA
19816	Ptown	2022-10-29	10:03:02	12.05	7.87	NA	NA	340	NA
19817	Ptown	2022-10-29	10:18:02	12.07	7.89	NA	NA	340	NA
19818	Ptown	2022-10-29	10:33:02	12.12	7.89	NA	NA	340	NA
19819	Ptown	2022-10-29	10:48:02	12.27	7.91	NA	NA	340	NA
19820	Ptown	2022-10-29	11:03:02	12.49	7.89	NA	NA	340	NA

19821	Ptown	2022-10-29	11:18:02	12.58	7.88	NA	NA	340	NA
19822	Ptown	2022-10-29	11:33:02	12.65	7.89	NA	NA	340	NA
19823	Ptown	2022-10-29	11:48:02	12.70	7.86	NA	NA	340	NA
19824	Ptown	2022-10-29	12:03:02	12.77	7.87	NA	NA	340	NA
19825	Ptown	2022-10-29	12:18:02	12.82	7.87	NA	NA	340	NA
19826	Ptown	2022-10-29	12:33:02	12.87	7.87	NA	NA	340	NA
19827	Ptown	2022-10-29	12:48:02	12.92	7.90	NA	NA	340	NA
19828	Ptown	2022-10-29	13:03:02	12.99	7.91	NA	NA	340	NA
19829	Ptown	2022-10-29	13:18:02	12.99	7.91	NA	NA	340	NA
19830	Ptown	2022-10-29	13:33:02	13.02	7.91	NA	NA	340	NA
19831	Ptown	2022-10-29	13:48:02	13.06	7.91	NA	NA	340	NA
19832	Ptown	2022-10-29	14:03:02	13.09	7.90	NA	NA	340	NA
19833	Ptown	2022-10-29	14:18:02	13.16	7.90	NA	NA	340	NA
19834	Ptown	2022-10-29	14:33:02	13.18	7.91	NA	NA	340	NA
19835	Ptown	2022-10-29	14:48:02	13.26	7.91	NA	NA	340	NA
19836	Ptown	2022-10-29	15:03:02	13.33	7.91	NA	NA	340	NA
19837	Ptown	2022-10-29	15:18:02	13.38	7.92	NA	NA	340	NA
19838	Ptown	2022-10-29	15:33:02	13.38	7.92	NA	NA	340	NA
19839	Ptown	2022-10-29	15:48:02	13.35	7.92	NA	NA	340	NA
19840	Ptown	2022-10-29	16:03:02	13.33	7.91	NA	NA	340	NA
19841	Ptown	2022-10-29	16:18:02	13.33	7.91	NA	NA	340	NA
19842	Ptown	2022-10-29	16:33:02	13.33	7.91	NA	NA	340	NA
19843	Ptown	2022-10-29	16:48:02	13.31	7.90	NA	NA	340	NA
19844	Ptown	2022-10-29	17:03:02	13.31	7.90	NA	NA	340	NA
19845	Ptown	2022-10-29	17:18:02	13.31	7.90	NA	NA	340	NA
19846	Ptown	2022-10-29	17:33:02	13.26	7.89	NA	NA	340	NA
19847	Ptown	2022-10-29	17:48:02	13.26	7.89	NA	NA	340	NA
19848	Ptown	2022-10-29	18:03:02	13.23	7.90	NA	NA	340	NA
19849	Ptown	2022-10-29	18:18:02	13.21	7.90	NA	NA	340	NA
19850	Ptown	2022-10-29	18:33:02	13.18	7.90	NA	NA	340	NA
19851	Ptown	2022-10-29	18:48:02	13.11	7.91	NA	NA	340	NA
19852	Ptown	2022-10-29	19:03:02	13.06	7.90	NA	NA	340	NA
19853	Ptown	2022-10-29	19:18:02	12.99	7.91	NA	NA	340	NA
19854	Ptown	2022-10-29	19:33:02	12.92	7.91	NA	NA	340	NA
19855	Ptown	2022-10-29	19:48:02	12.82	7.92	NA	NA	340	NA
19856	Ptown	2022-10-29	20:03:02	12.65	7.92	NA	NA	340	NA
19857	Ptown	2022-10-29	20:18:02	11.30	7.87	NA	NA	340	NA
19858	Ptown	2022-10-29	20:33:02	10.49	7.87	NA	NA	340	NA
19859	Ptown	2022-10-29	20:48:02	9.76	7.86	NA	NA	340	NA
19860	Ptown	2022-10-29	21:03:02	9.31	7.85	NA	NA	340	NA
19861	Ptown	2022-10-29	21:18:02	8.94	7.87	NA	NA	340	NA

19862	Ptown	2022-10-29	21:33:02	8.79	7.86	NA	NA	340	NA
19863	Ptown	2022-10-29	21:48:02	8.79	7.86	NA	NA	340	NA
19864	Ptown	2022-10-29	22:03:02	8.62	7.86	NA	NA	340	NA
19865	Ptown	2022-10-29	22:18:02	8.44	7.72	NA	NA	340	NA
19866	Ptown	2022-10-29	22:33:02	10.37	7.55	NA	NA	340	NA
19867	Ptown	2022-10-29	22:48:02	11.25	7.70	NA	NA	340	NA
19868	Ptown	2022-10-29	23:03:02	11.98	7.83	NA	NA	340	NA
19869	Ptown	2022-10-29	23:18:02	12.15	7.86	NA	NA	340	NA
19870	Ptown	2022-10-29	23:33:02	12.10	7.84	NA	NA	340	NA
19871	Ptown	2022-10-29	23:48:02	12.32	7.85	NA	NA	340	NA
19872	Ptown	2022-10-30	00:03:02	12.49	7.85	NA	NA	340	NA
19873	Ptown	2022-10-30	00:18:02	12.53	7.85	NA	NA	340	NA
19874	Ptown	2022-10-30	00:33:02	12.61	7.86	NA	NA	340	NA
19875	Ptown	2022-10-30	00:48:02	12.65	7.85	NA	NA	340	NA
19876	Ptown	2022-10-30	01:03:02	12.70	7.84	NA	NA	340	NA
19877	Ptown	2022-10-30	01:18:02	12.73	7.85	NA	NA	340	NA
19878	Ptown	2022-10-30	01:33:02	12.61	7.86	NA	NA	340	NA
19879	Ptown	2022-10-30	01:48:02	12.53	7.85	NA	NA	340	NA
19880	Ptown	2022-10-30	02:03:02	12.44	7.85	NA	NA	340	NA
19881	Ptown	2022-10-30	02:18:02	12.46	7.84	NA	NA	340	NA
19882	Ptown	2022-10-30	02:33:02	12.53	7.85	NA	NA	340	NA
19883	Ptown	2022-10-30	02:48:02	12.56	7.86	NA	NA	340	NA
19884	Ptown	2022-10-30	03:03:02	12.58	7.84	NA	NA	340	NA
19885	Ptown	2022-10-30	03:18:02	12.61	7.85	NA	NA	340	NA
19886	Ptown	2022-10-30	03:33:02	12.56	7.84	NA	NA	340	NA
19887	Ptown	2022-10-30	03:48:02	12.58	7.84	NA	NA	340	NA
19888	Ptown	2022-10-30	04:03:02	12.53	7.84	NA	NA	340	NA
19889	Ptown	2022-10-30	04:18:02	12.49	7.82	NA	NA	340	NA
19890	Ptown	2022-10-30	04:33:02	12.46	7.82	NA	NA	340	NA
19891	Ptown	2022-10-30	04:48:02	12.44	7.81	NA	NA	340	NA
19892	Ptown	2022-10-30	05:03:02	12.44	7.81	NA	NA	340	NA
19893	Ptown	2022-10-30	05:18:02	12.41	7.79	NA	NA	340	NA
19894	Ptown	2022-10-30	05:33:02	12.41	7.80	NA	NA	340	NA
19895	Ptown	2022-10-30	05:48:02	12.41	7.79	NA	NA	340	NA
19896	Ptown	2022-10-30	06:03:02	12.34	7.78	NA	NA	340	NA
19897	Ptown	2022-10-30	06:18:02	12.29	7.78	NA	NA	340	NA
19898	Ptown	2022-10-30	06:33:02	12.41	7.79	NA	NA	340	NA
19899	Ptown	2022-10-30	06:48:02	12.49	7.85	NA	NA	340	NA
19900	Ptown	2022-10-30	07:03:02	12.49	7.86	NA	NA	340	NA
19901	Ptown	2022-10-30	07:18:02	12.41	7.89	NA	NA	340	NA
19902	Ptown	2022-10-30	07:33:02	12.34	7.89	NA	NA	340	NA

19903	Ptown	2022-10-30	07:48:02	12.32	7.88	NA	NA	340	NA
19904	Ptown	2022-10-30	08:03:02	12.29	7.89	NA	NA	340	NA
19905	Ptown	2022-10-30	08:18:02	12.17	7.88	NA	NA	340	NA
19906	Ptown	2022-10-30	08:33:02	12.17	7.89	NA	NA	340	NA
19907	Ptown	2022-10-30	08:48:02	12.15	7.92	NA	NA	340	NA
19908	Ptown	2022-10-30	09:03:02	12.15	7.92	NA	NA	340	NA
19909	Ptown	2022-10-30	09:18:02	12.22	7.92	NA	NA	340	NA
19910	Ptown	2022-10-30	09:33:02	12.53	7.98	NA	NA	340	NA
19911	Ptown	2022-10-30	09:48:02	12.87	8.00	NA	NA	340	NA
19912	Ptown	2022-10-30	10:03:02	13.11	8.05	NA	NA	340	NA
19913	Ptown	2022-10-30	10:18:02	12.82	7.98	NA	NA	340	NA
19914	Ptown	2022-10-30	10:33:02	12.90	7.95	NA	NA	340	NA
19915	Ptown	2022-10-30	10:48:02	13.04	7.98	NA	NA	340	NA
19916	Ptown	2022-10-30	11:03:02	13.14	7.97	NA	NA	340	NA
19917	Ptown	2022-10-30	11:18:02	13.06	7.96	NA	NA	340	NA
19918	Ptown	2022-10-30	11:33:02	13.11	7.96	NA	NA	340	NA
19919	Ptown	2022-10-30	11:48:02	13.14	7.98	NA	NA	340	NA
19920	Ptown	2022-10-30	12:03:02	13.16	7.98	NA	NA	340	NA
19921	Ptown	2022-10-30	12:18:02	13.18	7.97	NA	NA	340	NA
19922	Ptown	2022-10-30	12:33:02	13.23	7.96	NA	NA	340	NA
19923	Ptown	2022-10-30	12:48:02	13.28	7.96	NA	NA	340	NA
19924	Ptown	2022-10-30	13:03:02	13.33	7.97	NA	NA	340	NA
19925	Ptown	2022-10-30	13:18:02	13.35	7.95	NA	NA	340	NA
19926	Ptown	2022-10-30	13:33:02	13.40	7.98	NA	NA	340	NA
19927	Ptown	2022-10-30	13:48:02	13.45	7.98	NA	NA	340	NA
19928	Ptown	2022-10-30	14:03:02	13.50	7.99	NA	NA	340	NA
19929	Ptown	2022-10-30	14:18:02	13.55	7.99	NA	NA	340	NA
19930	Ptown	2022-10-30	14:33:02	13.59	7.99	NA	NA	340	NA
19931	Ptown	2022-10-30	14:48:02	13.64	8.00	NA	NA	340	NA
19932	Ptown	2022-10-30	15:03:02	13.67	7.99	NA	NA	340	NA
19933	Ptown	2022-10-30	15:18:02	13.71	8.00	NA	NA	340	NA
19934	Ptown	2022-10-30	15:33:02	13.74	8.00	NA	NA	340	NA
19935	Ptown	2022-10-30	15:48:02	13.76	8.01	NA	NA	340	NA
19936	Ptown	2022-10-30	16:03:02	13.79	8.00	NA	NA	340	NA
19937	Ptown	2022-10-30	16:18:02	13.79	8.00	NA	NA	340	NA
19938	Ptown	2022-10-30	16:33:02	13.79	8.00	NA	NA	340	NA
19939	Ptown	2022-10-30	16:48:02	13.79	8.01	NA	NA	340	NA
19940	Ptown	2022-10-30	17:03:02	13.79	8.00	NA	NA	340	NA
19941	Ptown	2022-10-30	17:18:02	13.79	8.01	NA	NA	340	NA
19942	Ptown	2022-10-30	17:33:02	13.79	8.02	NA	NA	340	NA
19943	Ptown	2022-10-30	17:48:02	13.81	8.01	NA	NA	340	NA

19944	Ptown	2022-10-30	18:03:02	13.83	8.00	NA	NA	340	NA
19945	Ptown	2022-10-30	18:18:02	13.91	7.98	NA	NA	340	NA
19946	Ptown	2022-10-30	18:33:02	13.86	7.98	NA	NA	340	NA
19947	Ptown	2022-10-30	18:48:02	13.83	7.99	NA	NA	340	NA
19948	Ptown	2022-10-30	19:03:02	13.79	8.00	NA	NA	340	NA
19949	Ptown	2022-10-30	19:18:02	13.76	8.00	NA	NA	340	NA
19950	Ptown	2022-10-30	19:33:02	13.74	7.99	NA	NA	340	NA
19951	Ptown	2022-10-30	19:48:02	13.71	7.99	NA	NA	340	NA
19952	Ptown	2022-10-30	20:03:02	13.69	7.99	NA	NA	340	NA
19953	Ptown	2022-10-30	20:18:02	13.64	7.99	NA	NA	340	NA
19954	Ptown	2022-10-30	20:33:02	13.57	7.98	NA	NA	340	NA
19955	Ptown	2022-10-30	20:48:02	13.47	7.98	NA	NA	340	NA
19956	Ptown	2022-10-30	21:03:02	13.35	7.98	NA	NA	340	NA
19957	Ptown	2022-10-30	21:18:02	13.06	7.95	NA	NA	340	NA
19958	Ptown	2022-10-30	21:33:02	12.80	7.90	NA	NA	340	NA
19959	Ptown	2022-10-30	21:48:02	12.27	7.87	NA	NA	340	NA
19960	Ptown	2022-10-30	22:03:02	11.90	7.88	NA	NA	340	NA
19961	Ptown	2022-10-30	22:18:02	11.76	7.87	NA	NA	340	NA
19962	Ptown	2022-10-30	22:33:02	11.61	7.87	NA	NA	340	NA
19963	Ptown	2022-10-30	22:48:02	11.76	7.56	NA	NA	340	NA
19964	Ptown	2022-10-30	23:03:02	12.03	7.77	NA	NA	340	NA
19965	Ptown	2022-10-30	23:18:02	12.41	7.87	NA	NA	340	NA
19966	Ptown	2022-10-30	23:33:02	12.70	7.91	NA	NA	340	NA
19967	Ptown	2022-10-30	23:48:02	12.77	7.92	NA	NA	340	NA
19968	Ptown	2022-10-31	00:03:02	12.90	7.94	NA	NA	340	NA
19969	Ptown	2022-10-31	00:18:02	13.02	7.95	NA	NA	340	NA
19970	Ptown	2022-10-31	00:33:02	13.09	7.95	NA	NA	340	NA
19971	Ptown	2022-10-31	00:48:02	13.11	7.96	NA	NA	340	NA
19972	Ptown	2022-10-31	01:03:02	13.14	7.96	NA	NA	340	NA
19973	Ptown	2022-10-31	01:18:02	13.16	7.96	NA	NA	340	NA
19974	Ptown	2022-10-31	01:33:02	13.18	7.97	NA	NA	340	NA
19975	Ptown	2022-10-31	01:48:02	13.18	7.97	NA	NA	340	NA
19976	Ptown	2022-10-31	02:03:02	13.21	7.97	NA	NA	340	NA
19977	Ptown	2022-10-31	02:18:02	13.21	7.97	NA	NA	340	NA
19978	Ptown	2022-10-31	02:33:02	13.21	7.96	NA	NA	340	NA
19979	Ptown	2022-10-31	02:48:02	13.18	7.97	NA	NA	340	NA
19980	Ptown	2022-10-31	03:03:02	13.18	7.95	NA	NA	340	NA
19981	Ptown	2022-10-31	03:18:02	13.18	7.95	NA	NA	340	NA
19982	Ptown	2022-10-31	03:33:02	13.18	7.95	NA	NA	340	NA
19983	Ptown	2022-10-31	03:48:02	13.16	7.95	NA	NA	340	NA
19984	Ptown	2022-10-31	04:03:02	13.16	7.94	NA	NA	340	NA

19985	Ptown	2022-10-31	04:18:02	13.14	7.94	NA	NA	340	NA
19986	Ptown	2022-10-31	04:33:02	13.14	7.94	NA	NA	340	NA
19987	Ptown	2022-10-31	04:48:02	13.11	7.94	NA	NA	340	NA
19988	Ptown	2022-10-31	05:03:02	13.06	7.93	NA	NA	340	NA
19989	Ptown	2022-10-31	05:18:02	13.09	7.94	NA	NA	340	NA
19990	Ptown	2022-10-31	05:33:02	13.06	7.94	NA	NA	340	NA
19991	Ptown	2022-10-31	05:48:02	13.02	7.94	NA	NA	340	NA
19992	Ptown	2022-10-31	06:03:02	12.99	7.94	NA	NA	340	NA
19993	Ptown	2022-10-31	06:18:02	13.02	7.94	NA	NA	340	NA
19994	Ptown	2022-10-31	06:33:02	13.04	7.95	NA	NA	340	NA
19995	Ptown	2022-10-31	06:48:02	13.06	7.95	NA	NA	340	NA
19996	Ptown	2022-10-31	07:03:02	13.04	7.94	NA	NA	340	NA
19997	Ptown	2022-10-31	07:18:02	13.02	7.93	NA	NA	340	NA
19998	Ptown	2022-10-31	07:33:02	12.92	7.91	NA	NA	340	NA
19999	Ptown	2022-10-31	07:48:02	12.90	7.90	NA	NA	340	NA
20000	Ptown	2022-10-31	08:03:02	12.80	7.90	NA	NA	340	NA
20001	Ptown	2022-10-31	08:18:02	12.70	7.90	NA	NA	340	NA
20002	Ptown	2022-10-31	08:33:02	12.70	7.90	NA	NA	340	NA
20003	Ptown	2022-10-31	08:48:02	12.65	7.90	NA	NA	340	NA
20004	Ptown	2022-10-31	09:03:02	12.53	7.87	NA	NA	340	NA
20005	Ptown	2022-10-31	09:18:02	12.68	7.86	NA	NA	340	NA
20006	Ptown	2022-10-31	09:33:02	12.75	7.84	NA	NA	340	NA
20007	Ptown	2022-10-31	09:48:02	12.82	7.87	NA	NA	340	NA
20008	Ptown	2022-10-31	10:03:02	12.94	7.89	NA	NA	340	NA
20009	Ptown	2022-10-31	10:18:02	13.09	7.93	NA	NA	340	NA
20010	Ptown	2022-10-31	10:33:02	13.16	7.94	NA	NA	340	NA
20011	Ptown	2022-10-31	10:48:02	13.33	7.96	NA	NA	340	NA
20012	Ptown	2022-10-31	11:03:02	13.28	7.96	NA	NA	340	NA
20013	Ptown	2022-10-31	11:18:02	13.26	7.98	NA	NA	340	NA
20014	Ptown	2022-10-31	11:33:02	13.26	7.96	NA	NA	340	NA
20015	Ptown	2022-10-31	11:48:02	13.26	7.98	NA	NA	340	NA
20016	Ptown	2022-10-31	12:03:02	13.28	7.96	NA	NA	340	NA
20017	Ptown	2022-10-31	12:18:02	13.31	7.97	NA	NA	340	NA
20018	Ptown	2022-10-31	12:33:02	13.33	7.99	NA	NA	340	NA
20019	Ptown	2022-10-31	12:48:02	13.31	7.99	NA	NA	340	NA
20020	Ptown	2022-10-31	13:03:02	13.31	7.99	NA	NA	340	NA
20021	Ptown	2022-10-31	13:18:02	13.33	7.99	NA	NA	340	NA
20022	Ptown	2022-10-31	13:33:02	13.35	7.99	NA	NA	340	NA
20023	Ptown	2022-10-31	13:48:02	13.35	7.98	NA	NA	340	NA
20024	Ptown	2022-10-31	14:03:02	13.38	7.98	NA	NA	340	NA
20025	Ptown	2022-10-31	14:18:02	13.38	7.98	NA	NA	340	NA

20026	Ptown	2022-10-31	14:33:02	13.38	7.97	NA	NA	340	NA
20027	Ptown	2022-10-31	14:48:02	13.35	7.96	NA	NA	340	NA
20028	Ptown	2022-10-31	15:03:02	13.35	7.98	NA	NA	340	NA
20029	Ptown	2022-10-31	15:18:02	13.35	7.98	NA	NA	340	NA
20030	Ptown	2022-10-31	15:33:02	13.35	7.98	NA	NA	340	NA
20031	Ptown	2022-10-31	15:48:02	13.35	7.97	NA	NA	340	NA
20032	Ptown	2022-10-31	16:03:02	13.40	7.99	NA	NA	340	NA
20033	Ptown	2022-10-31	16:18:02	13.50	8.01	NA	NA	340	NA
20034	Ptown	2022-10-31	16:33:02	13.86	8.00	NA	NA	340	NA
20035	Ptown	2022-10-31	16:48:02	14.00	7.99	NA	NA	340	NA
20036	Ptown	2022-10-31	17:03:02	14.03	7.99	NA	NA	340	NA
20037	Ptown	2022-10-31	17:18:02	14.07	8.00	NA	NA	340	NA
20038	Ptown	2022-10-31	17:33:02	14.07	7.98	NA	NA	340	NA
20039	Ptown	2022-10-31	17:48:02	14.05	7.99	NA	NA	340	NA
20040	Ptown	2022-10-31	18:03:02	14.03	7.98	NA	NA	340	NA
20041	Ptown	2022-10-31	18:18:02	13.88	8.00	NA	NA	340	NA
20042	Ptown	2022-10-31	18:33:02	13.83	8.01	NA	NA	340	NA
20043	Ptown	2022-10-31	18:48:02	13.83	8.02	NA	NA	340	NA
20044	Ptown	2022-10-31	19:03:02	13.86	8.02	NA	NA	340	NA
20045	Ptown	2022-10-31	19:18:02	13.88	8.02	NA	NA	340	NA
20046	Ptown	2022-10-31	19:33:02	13.88	8.01	NA	NA	340	NA
20047	Ptown	2022-10-31	19:48:02	13.91	8.04	NA	NA	340	NA
20048	Ptown	2022-10-31	20:03:02	13.88	8.04	NA	NA	340	NA
20049	Ptown	2022-10-31	20:18:02	13.88	8.04	NA	NA	340	NA
20050	Ptown	2022-10-31	20:33:02	13.88	8.04	NA	NA	340	NA
20051	Ptown	2022-10-31	20:48:02	13.88	8.04	NA	NA	340	NA
20052	Ptown	2022-10-31	21:03:02	13.91	8.03	NA	NA	340	NA
20053	Ptown	2022-10-31	21:18:02	13.91	8.02	NA	NA	340	NA
20054	Ptown	2022-10-31	21:33:02	13.93	8.01	NA	NA	340	NA
20055	Ptown	2022-10-31	21:48:02	13.95	7.97	NA	NA	340	NA
20056	Ptown	2022-10-31	22:03:02	13.98	7.96	NA	NA	340	NA
20057	Ptown	2022-10-31	22:18:02	13.98	7.96	NA	NA	340	NA
20058	Ptown	2022-10-31	22:33:02	13.95	7.95	NA	NA	340	NA
20059	Ptown	2022-10-31	22:48:02	13.93	7.91	NA	NA	340	NA
20060	Ptown	2022-10-31	23:03:02	13.93	7.83	NA	NA	340	NA
20061	Ptown	2022-10-31	23:18:02	13.95	7.73	NA	NA	340	NA
20062	Ptown	2022-10-31	23:33:02	13.95	7.75	NA	NA	340	NA
20063	Ptown	2022-10-31	23:48:02	13.95	7.79	NA	NA	340	NA
20064	Ptown	2022-11-01	00:03:02	13.95	7.83	NA	NA	340	NA
20065	Ptown	2022-11-01	00:18:02	13.95	7.85	NA	NA	340	NA
20066	Ptown	2022-11-01	00:33:02	13.93	7.94	NA	NA	340	NA

20067	Ptown	2022-11-01	00:48:02	13.91	7.96	NA	NA	340	NA
20068	Ptown	2022-11-01	01:03:02	13.95	7.91	NA	NA	340	NA
20069	Ptown	2022-11-01	01:18:02	13.98	7.89	NA	NA	340	NA
20070	Ptown	2022-11-01	01:33:02	13.98	7.84	NA	NA	340	NA
20071	Ptown	2022-11-01	01:48:02	13.95	7.91	NA	NA	340	NA
20072	Ptown	2022-11-01	02:03:02	13.93	7.95	NA	NA	340	NA
20073	Ptown	2022-11-01	02:18:02	13.91	7.97	NA	NA	340	NA
20074	Ptown	2022-11-01	02:33:02	13.91	7.98	NA	NA	340	NA
20075	Ptown	2022-11-01	02:48:02	13.91	7.98	NA	NA	340	NA
20076	Ptown	2022-11-01	03:03:02	13.91	7.98	NA	NA	340	NA
20077	Ptown	2022-11-01	03:18:02	13.88	7.98	NA	NA	340	NA
20078	Ptown	2022-11-01	03:33:02	13.88	7.99	NA	NA	340	NA
20079	Ptown	2022-11-01	03:48:02	13.86	8.00	NA	NA	340	NA
20080	Ptown	2022-11-01	04:03:02	13.88	8.00	NA	NA	340	NA
20081	Ptown	2022-11-01	04:18:02	13.88	8.00	NA	NA	340	NA
20082	Ptown	2022-11-01	04:33:02	13.91	7.99	NA	NA	340	NA
20083	Ptown	2022-11-01	04:48:02	13.91	7.99	NA	NA	340	NA
20084	Ptown	2022-11-01	05:03:02	13.91	8.00	NA	NA	340	NA
20085	Ptown	2022-11-01	05:18:02	13.91	7.99	NA	NA	340	NA
20086	Ptown	2022-11-01	05:33:02	13.91	7.99	NA	NA	340	NA
20087	Ptown	2022-11-01	05:48:02	13.93	7.98	NA	NA	340	NA
20088	Ptown	2022-11-01	06:03:02	13.93	7.98	NA	NA	340	NA
20089	Ptown	2022-11-01	06:18:02	13.93	7.98	NA	NA	340	NA
20090	Ptown	2022-11-01	06:33:02	13.93	7.98	NA	NA	340	NA
20091	Ptown	2022-11-01	06:48:02	13.93	7.98	NA	NA	340	NA
20092	Ptown	2022-11-01	07:03:02	13.93	7.98	NA	NA	340	NA
20093	Ptown	2022-11-01	07:18:02	13.93	7.98	NA	NA	340	NA
20094	Ptown	2022-11-01	07:33:02	13.93	7.97	NA	NA	340	NA
20095	Ptown	2022-11-01	07:48:02	13.93	7.97	NA	NA	340	NA
20096	Ptown	2022-11-01	08:03:02	13.93	7.96	NA	NA	340	NA
20097	Ptown	2022-11-01	08:18:02	13.93	7.97	NA	NA	340	NA
20098	Ptown	2022-11-01	08:33:02	13.93	7.97	NA	NA	340	NA
20099	Ptown	2022-11-01	08:48:02	13.93	7.97	NA	NA	340	NA
20100	Ptown	2022-11-01	09:03:02	13.95	7.96	NA	NA	340	NA
20101	Ptown	2022-11-01	09:18:02	13.98	7.96	NA	NA	340	NA
20102	Ptown	2022-11-01	09:33:02	14.00	7.96	NA	NA	340	NA
20103	Ptown	2022-11-01	09:48:02	14.03	7.95	NA	NA	340	NA
20104	Ptown	2022-11-01	10:03:02	14.05	7.95	NA	NA	340	NA
20105	Ptown	2022-11-01	10:18:02	14.10	7.93	NA	NA	340	NA
20106	Ptown	2022-11-01	10:33:02	14.17	7.91	NA	NA	340	NA
20107	Ptown	2022-11-01	10:48:02	14.29	7.95	NA	NA	340	NA

20108	Ptown	2022-11-01	11:03:02	14.31	7.95	NA	NA	340	NA
20109	Ptown	2022-11-01	11:18:02	14.41	7.94	NA	NA	340	NA
20110	Ptown	2022-11-01	11:33:02	14.39	7.96	NA	NA	340	NA
20111	Ptown	2022-11-01	11:48:02	14.43	7.96	NA	NA	340	NA
20112	Ptown	2022-11-01	12:03:02	14.48	7.99	NA	NA	340	NA
20113	Ptown	2022-11-01	12:18:02	14.39	8.02	NA	NA	340	NA
20114	Ptown	2022-11-01	12:33:02	14.41	8.03	NA	NA	340	NA
20115	Ptown	2022-11-01	12:48:02	14.55	8.04	NA	NA	340	NA
20116	Ptown	2022-11-01	13:03:02	14.48	8.05	NA	NA	340	NA
20117	Ptown	2022-11-01	13:18:02	14.51	8.08	NA	NA	340	NA
20118	Ptown	2022-11-01	13:33:02	14.51	8.07	NA	NA	340	NA
20119	Ptown	2022-11-01	13:48:02	14.48	8.07	NA	NA	340	NA
20120	Ptown	2022-11-01	14:03:02	14.46	8.06	NA	NA	340	NA
20121	Ptown	2022-11-01	14:18:02	14.43	8.05	NA	NA	340	NA
20122	Ptown	2022-11-01	14:33:02	14.41	8.05	NA	NA	340	NA
20123	Ptown	2022-11-01	14:48:02	14.41	8.03	NA	NA	340	NA
20124	Ptown	2022-11-01	15:03:02	14.39	8.04	NA	NA	340	NA
20125	Ptown	2022-11-01	15:18:02	14.36	8.02	NA	NA	340	NA
20126	Ptown	2022-11-01	15:33:02	14.34	8.02	NA	NA	340	NA
20127	Ptown	2022-11-01	15:48:02	14.29	8.01	NA	NA	340	NA
20128	Ptown	2022-11-01	16:03:02	14.27	8.00	NA	NA	340	NA
20129	Ptown	2022-11-01	16:18:02	14.27	7.99	NA	NA	340	NA
20130	Ptown	2022-11-01	16:33:02	14.27	7.99	NA	NA	340	NA
20131	Ptown	2022-11-01	16:48:02	14.24	8.02	NA	NA	340	NA
20132	Ptown	2022-11-01	17:03:02	14.22	7.99	NA	NA	340	NA
20133	Ptown	2022-11-01	17:18:02	14.22	7.98	NA	NA	340	NA
20134	Ptown	2022-11-01	17:33:02	14.22	7.97	NA	NA	340	NA
20135	Ptown	2022-11-01	17:48:02	14.19	7.97	NA	NA	340	NA
20136	Ptown	2022-11-01	18:03:02	14.19	8.01	NA	NA	340	NA
20137	Ptown	2022-11-01	18:18:02	14.17	8.00	NA	NA	340	NA
20138	Ptown	2022-11-01	18:33:02	14.17	7.99	NA	NA	340	NA
20139	Ptown	2022-11-01	18:48:02	14.17	7.99	NA	NA	340	NA
20140	Ptown	2022-11-01	19:03:02	14.17	8.00	NA	NA	340	NA
20141	Ptown	2022-11-01	19:18:02	14.17	7.99	NA	NA	340	NA
20142	Ptown	2022-11-01	19:33:02	14.17	7.97	NA	NA	340	NA
20143	Ptown	2022-11-01	19:48:02	14.17	7.96	NA	NA	340	NA
20144	Ptown	2022-11-01	20:03:02	14.17	7.95	NA	NA	340	NA
20145	Ptown	2022-11-01	20:18:02	14.15	7.96	NA	NA	340	NA
20146	Ptown	2022-11-01	20:33:02	14.12	7.97	NA	NA	340	NA
20147	Ptown	2022-11-01	20:48:02	14.12	7.97	NA	NA	340	NA
20148	Ptown	2022-11-01	21:03:02	14.12	7.97	NA	NA	340	NA

20149	Ptown	2022-11-01	21:18:02	14.12	7.98	NA	NA	340	NA
20150	Ptown	2022-11-01	21:33:02	14.15	7.97	NA	NA	340	NA
20151	Ptown	2022-11-01	21:48:02	14.15	7.97	NA	NA	340	NA
20152	Ptown	2022-11-01	22:03:02	14.15	7.97	NA	NA	340	NA
20153	Ptown	2022-11-01	22:18:02	14.22	7.99	NA	NA	340	NA
20154	Ptown	2022-11-01	22:33:02	14.24	8.00	NA	NA	340	NA
20155	Ptown	2022-11-01	22:48:02	14.27	7.97	NA	NA	340	NA
20156	Ptown	2022-11-01	23:03:02	14.27	7.94	NA	NA	340	NA
20157	Ptown	2022-11-01	23:18:02	14.29	7.93	NA	NA	340	NA
20158	Ptown	2022-11-01	23:33:02	14.27	7.83	NA	NA	340	NA
20159	Ptown	2022-11-01	23:48:02	14.22	7.78	NA	NA	340	NA
20160	Ptown	2022-11-02	00:03:02	14.12	7.59	NA	NA	340	NA
20161	Ptown	2022-11-02	00:18:02	14.05	7.58	NA	NA	340	NA
20162	Ptown	2022-11-02	00:33:02	14.03	7.69	NA	NA	340	NA
20163	Ptown	2022-11-02	00:48:02	14.00	7.86	NA	NA	340	NA
20164	Ptown	2022-11-02	01:03:02	14.00	7.87	NA	NA	340	NA
20165	Ptown	2022-11-02	01:18:02	14.05	7.86	NA	NA	340	NA
20166	Ptown	2022-11-02	01:33:02	14.03	7.85	NA	NA	340	NA
20167	Ptown	2022-11-02	01:48:02	13.98	7.88	NA	NA	340	NA
20168	Ptown	2022-11-02	02:03:02	13.98	7.89	NA	NA	340	NA
20169	Ptown	2022-11-02	02:18:02	13.95	7.89	NA	NA	340	NA
20170	Ptown	2022-11-02	02:33:02	13.95	7.92	NA	NA	340	NA
20171	Ptown	2022-11-02	02:48:02	13.95	7.93	NA	NA	340	NA
20172	Ptown	2022-11-02	03:03:02	13.93	7.94	NA	NA	340	NA
20173	Ptown	2022-11-02	03:18:02	13.93	7.93	NA	NA	340	NA
20174	Ptown	2022-11-02	03:33:02	13.93	7.94	NA	NA	340	NA
20175	Ptown	2022-11-02	03:48:02	13.93	7.94	NA	NA	340	NA
20176	Ptown	2022-11-02	04:03:02	13.93	7.93	NA	NA	340	NA
20177	Ptown	2022-11-02	04:18:02	13.93	7.92	NA	NA	340	NA
20178	Ptown	2022-11-02	04:33:02	13.93	7.93	NA	NA	340	NA
20179	Ptown	2022-11-02	04:48:02	13.93	7.93	NA	NA	340	NA
20180	Ptown	2022-11-02	05:03:02	13.93	7.93	NA	NA	340	NA
20181	Ptown	2022-11-02	05:18:02	13.93	7.94	NA	NA	340	NA
20182	Ptown	2022-11-02	05:33:02	13.91	7.93	NA	NA	340	NA
20183	Ptown	2022-11-02	05:48:02	13.91	7.93	NA	NA	340	NA
20184	Ptown	2022-11-02	06:03:02	13.91	7.93	NA	NA	340	NA
20185	Ptown	2022-11-02	06:18:02	13.88	7.94	NA	NA	340	NA
20186	Ptown	2022-11-02	06:33:02	13.88	7.94	NA	NA	340	NA
20187	Ptown	2022-11-02	06:48:02	13.86	7.92	NA	NA	340	NA
20188	Ptown	2022-11-02	07:03:02	13.83	7.94	NA	NA	340	NA
20189	Ptown	2022-11-02	07:18:02	13.83	7.93	NA	NA	340	NA

20190	Ptown	2022-11-02	07:33:02	13.81	7.92	NA	NA	340	NA
20191	Ptown	2022-11-02	07:48:02	13.81	7.94	NA	NA	340	NA
20192	Ptown	2022-11-02	08:03:02	13.81	7.94	NA	NA	340	NA
20193	Ptown	2022-11-02	08:18:02	13.79	7.93	NA	NA	340	NA
20194	Ptown	2022-11-02	08:33:02	13.79	7.92	NA	NA	340	NA
20195	Ptown	2022-11-02	08:48:02	13.79	7.92	NA	NA	340	NA
20196	Ptown	2022-11-02	09:03:02	13.79	7.92	NA	NA	340	NA
20197	Ptown	2022-11-02	09:18:02	13.81	7.91	NA	NA	340	NA
20198	Ptown	2022-11-02	09:33:02	13.83	7.93	NA	NA	340	NA
20199	Ptown	2022-11-02	09:48:02	13.86	7.94	NA	NA	340	NA
20200	Ptown	2022-11-02	10:03:02	13.88	7.95	NA	NA	340	NA
20201	Ptown	2022-11-02	10:18:02	13.93	7.95	NA	NA	340	NA
20202	Ptown	2022-11-02	10:33:02	13.98	7.96	NA	NA	340	NA
20203	Ptown	2022-11-02	10:48:02	14.05	7.95	NA	NA	340	NA
20204	Ptown	2022-11-02	11:03:02	14.17	7.96	NA	NA	340	NA
20205	Ptown	2022-11-02	11:18:02	14.29	7.97	NA	NA	340	NA
20206	Ptown	2022-11-02	11:33:02	14.51	8.00	NA	NA	340	NA
20207	Ptown	2022-11-02	11:48:02	14.77	8.04	NA	NA	340	NA
20208	Ptown	2022-11-02	12:03:02	15.06	8.06	NA	NA	340	NA
20209	Ptown	2022-11-02	12:18:02	15.27	8.10	NA	NA	340	NA
20210	Ptown	2022-11-02	12:33:02	15.56	8.13	NA	NA	340	NA
20211	Ptown	2022-11-02	12:48:02	15.53	8.10	NA	NA	340	NA
20212	Ptown	2022-11-02	13:03:02	15.44	8.10	NA	NA	340	NA
20213	Ptown	2022-11-02	13:18:02	15.22	8.08	NA	NA	340	NA
20214	Ptown	2022-11-02	13:33:02	15.44	8.11	NA	NA	340	NA
20215	Ptown	2022-11-02	13:48:02	15.56	8.10	NA	NA	340	NA
20216	Ptown	2022-11-02	14:03:02	15.44	8.08	NA	NA	340	NA
20217	Ptown	2022-11-02	14:18:02	15.22	8.07	NA	NA	340	NA
20218	Ptown	2022-11-02	14:33:02	15.13	8.07	NA	NA	340	NA
20219	Ptown	2022-11-02	14:48:02	15.01	8.04	NA	NA	340	NA
20220	Ptown	2022-11-02	15:03:02	14.96	8.02	NA	NA	340	NA
20221	Ptown	2022-11-02	15:18:02	14.98	8.06	NA	NA	340	NA
20222	Ptown	2022-11-02	15:33:02	14.84	8.04	NA	NA	340	NA
20223	Ptown	2022-11-02	15:48:02	14.72	8.01	NA	NA	340	NA
20224	Ptown	2022-11-02	16:03:02	14.65	8.00	NA	NA	340	NA
20225	Ptown	2022-11-02	16:18:02	14.53	8.02	NA	NA	340	NA
20226	Ptown	2022-11-02	16:33:02	14.46	7.99	NA	NA	340	NA
20227	Ptown	2022-11-02	16:48:02	14.39	7.98	NA	NA	340	NA
20228	Ptown	2022-11-02	17:03:02	14.36	7.97	NA	NA	340	NA
20229	Ptown	2022-11-02	17:18:02	14.36	7.97	NA	NA	340	NA
20230	Ptown	2022-11-02	17:33:02	14.34	7.96	NA	NA	340	NA

20231	Ptown	2022-11-02	17:48:02	14.31	7.96	NA	NA	340	NA
20232	Ptown	2022-11-02	18:03:02	14.29	7.95	NA	NA	340	NA
20233	Ptown	2022-11-02	18:18:02	14.27	7.93	NA	NA	340	NA
20234	Ptown	2022-11-02	18:33:02	14.27	7.93	NA	NA	340	NA
20235	Ptown	2022-11-02	18:48:02	14.24	7.94	NA	NA	340	NA
20236	Ptown	2022-11-02	19:03:02	14.24	7.92	NA	NA	340	NA
20237	Ptown	2022-11-02	19:18:02	14.22	7.92	NA	NA	340	NA
20238	Ptown	2022-11-02	19:33:02	14.22	7.92	NA	NA	340	NA
20239	Ptown	2022-11-02	19:48:02	14.19	7.92	NA	NA	340	NA
20240	Ptown	2022-11-02	20:03:02	14.22	7.93	NA	NA	340	NA
20241	Ptown	2022-11-02	20:18:02	14.19	7.92	NA	NA	340	NA
20242	Ptown	2022-11-02	20:33:02	14.19	7.92	NA	NA	340	NA
20243	Ptown	2022-11-02	20:48:02	14.19	7.91	NA	NA	340	NA
20244	Ptown	2022-11-02	21:03:02	14.19	7.91	NA	NA	340	NA
20245	Ptown	2022-11-02	21:18:02	14.19	7.91	NA	NA	340	NA
20246	Ptown	2022-11-02	21:33:02	14.19	7.91	NA	NA	340	NA
20247	Ptown	2022-11-02	21:48:02	14.19	7.93	NA	NA	340	NA
20248	Ptown	2022-11-02	22:03:02	14.17	7.94	NA	NA	340	NA
20249	Ptown	2022-11-02	22:18:02	14.15	7.94	NA	NA	340	NA
20250	Ptown	2022-11-02	22:33:02	14.15	7.95	NA	NA	340	NA
20251	Ptown	2022-11-02	22:48:02	14.12	7.92	NA	NA	340	NA
20252	Ptown	2022-11-02	23:03:02	14.12	7.93	NA	NA	340	NA
20253	Ptown	2022-11-02	23:18:02	14.10	7.95	NA	NA	340	NA
20254	Ptown	2022-11-02	23:33:02	14.05	7.94	NA	NA	340	NA
20255	Ptown	2022-11-02	23:48:02	13.98	7.93	NA	NA	340	NA
20256	Ptown	2022-11-03	00:03:02	13.88	7.92	NA	NA	340	NA
20257	Ptown	2022-11-03	00:18:02	13.71	7.86	NA	NA	340	NA
20258	Ptown	2022-11-03	00:33:02	13.57	7.84	NA	NA	340	NA
20259	Ptown	2022-11-03	00:48:02	13.43	7.81	NA	NA	340	NA
20260	Ptown	2022-11-03	01:03:02	13.28	7.81	NA	NA	340	NA
20261	Ptown	2022-11-03	01:18:02	13.14	7.77	NA	NA	340	NA
20262	Ptown	2022-11-03	01:33:02	12.97	7.76	NA	NA	340	NA
20263	Ptown	2022-11-03	01:48:02	12.61	7.62	NA	NA	340	NA
20264	Ptown	2022-11-03	02:03:02	12.65	7.69	NA	NA	340	NA
20265	Ptown	2022-11-03	02:18:02	12.58	7.68	NA	NA	340	NA
20266	Ptown	2022-11-03	02:33:02	12.90	7.79	NA	NA	340	NA
20267	Ptown	2022-11-03	02:48:02	13.06	7.83	NA	NA	340	NA
20268	Ptown	2022-11-03	03:03:02	13.02	7.86	NA	NA	340	NA
20269	Ptown	2022-11-03	03:18:02	13.18	7.87	NA	NA	340	NA
20270	Ptown	2022-11-03	03:33:02	13.04	7.88	NA	NA	340	NA
20271	Ptown	2022-11-03	03:48:02	13.23	7.91	NA	NA	340	NA

20272	Ptown	2022-11-03	04:03:02	13.33	7.90	NA	NA	340	NA
20273	Ptown	2022-11-03	04:18:02	13.35	7.92	NA	NA	340	NA
20274	Ptown	2022-11-03	04:33:02	13.45	7.93	NA	NA	340	NA
20275	Ptown	2022-11-03	04:48:02	13.47	7.91	NA	NA	340	NA
20276	Ptown	2022-11-03	05:03:02	13.52	7.91	NA	NA	340	NA
20277	Ptown	2022-11-03	05:18:02	13.55	7.88	NA	NA	340	NA
20278	Ptown	2022-11-03	05:33:02	13.57	7.88	NA	NA	340	NA
20279	Ptown	2022-11-03	05:48:02	13.57	7.87	NA	NA	340	NA
20280	Ptown	2022-11-03	06:03:02	13.57	7.90	NA	NA	340	NA
20281	Ptown	2022-11-03	06:18:02	13.55	7.91	NA	NA	340	NA
20282	Ptown	2022-11-03	06:33:02	13.55	7.90	NA	NA	340	NA
20283	Ptown	2022-11-03	06:48:02	13.55	7.88	NA	NA	340	NA
20284	Ptown	2022-11-03	07:03:02	13.55	7.88	NA	NA	340	NA
20285	Ptown	2022-11-03	07:18:02	13.55	7.91	NA	NA	340	NA
20286	Ptown	2022-11-03	07:33:02	13.55	7.90	NA	NA	340	NA
20287	Ptown	2022-11-03	07:48:02	13.55	7.90	NA	NA	340	NA
20288	Ptown	2022-11-03	08:03:02	13.52	7.89	NA	NA	340	NA
20289	Ptown	2022-11-03	08:18:02	13.52	7.90	NA	NA	340	NA
20290	Ptown	2022-11-03	08:33:02	13.50	7.90	NA	NA	340	NA
20291	Ptown	2022-11-03	08:48:02	13.50	7.92	NA	NA	340	NA
20292	Ptown	2022-11-03	09:03:02	13.47	7.92	NA	NA	340	NA
20293	Ptown	2022-11-03	09:18:02	13.45	7.93	NA	NA	340	NA
20294	Ptown	2022-11-03	09:33:02	13.43	7.92	NA	NA	340	NA
20295	Ptown	2022-11-03	09:48:02	13.40	7.93	NA	NA	340	NA
20296	Ptown	2022-11-03	10:03:02	13.35	7.93	NA	NA	340	NA
20297	Ptown	2022-11-03	10:18:02	13.33	7.93	NA	NA	340	NA
20298	Ptown	2022-11-03	10:33:02	13.35	7.93	NA	NA	340	NA
20299	Ptown	2022-11-03	10:48:02	13.38	7.95	NA	NA	340	NA
20300	Ptown	2022-11-03	11:03:02	13.43	7.94	NA	NA	340	NA
20301	Ptown	2022-11-03	11:18:02	13.47	7.96	NA	NA	340	NA
20302	Ptown	2022-11-03	11:33:02	13.55	7.96	NA	NA	340	NA
20303	Ptown	2022-11-03	11:48:02	13.67	7.96	NA	NA	340	NA
20304	Ptown	2022-11-03	12:03:02	13.81	7.98	NA	NA	340	NA
20305	Ptown	2022-11-03	12:18:02	13.93	8.00	NA	NA	340	NA
20306	Ptown	2022-11-03	12:33:02	14.12	8.01	NA	NA	340	NA
20307	Ptown	2022-11-03	12:48:02	14.34	8.03	NA	NA	340	NA
20308	Ptown	2022-11-03	13:03:02	14.58	8.07	NA	NA	340	NA
20309	Ptown	2022-11-03	13:18:02	14.84	8.08	NA	NA	340	NA
20310	Ptown	2022-11-03	13:33:02	15.13	8.11	NA	NA	340	NA
20311	Ptown	2022-11-03	13:48:02	15.27	8.12	NA	NA	340	NA
20312	Ptown	2022-11-03	14:03:02	15.34	8.12	NA	NA	340	NA

20313	Ptown	2022-11-03	14:18:02	15.46	8.12	NA	NA	340	NA
20314	Ptown	2022-11-03	14:33:02	15.60	8.13	NA	NA	340	NA
20315	Ptown	2022-11-03	14:48:02	15.51	8.14	NA	NA	340	NA
20316	Ptown	2022-11-03	15:03:02	15.39	8.14	NA	NA	340	NA
20317	Ptown	2022-11-03	15:18:02	15.20	8.12	NA	NA	340	NA
20318	Ptown	2022-11-03	15:33:02	15.08	8.09	NA	NA	340	NA
20319	Ptown	2022-11-03	15:48:02	15.01	8.08	NA	NA	340	NA
20320	Ptown	2022-11-03	16:03:02	14.84	8.06	NA	NA	340	NA
20321	Ptown	2022-11-03	16:18:02	14.79	8.07	NA	NA	340	NA
20322	Ptown	2022-11-03	16:33:02	14.77	8.11	NA	NA	340	NA
20323	Ptown	2022-11-03	16:48:02	14.67	8.10	NA	NA	340	NA
20324	Ptown	2022-11-03	17:03:02	14.60	8.09	NA	NA	340	NA
20325	Ptown	2022-11-03	17:18:02	14.55	8.08	NA	NA	340	NA
20326	Ptown	2022-11-03	17:33:02	14.48	8.07	NA	NA	340	NA
20327	Ptown	2022-11-03	17:48:02	14.46	8.06	NA	NA	340	NA
20328	Ptown	2022-11-03	18:03:02	14.43	8.06	NA	NA	340	NA
20329	Ptown	2022-11-03	18:18:02	14.41	8.05	NA	NA	340	NA
20330	Ptown	2022-11-03	18:33:02	14.39	8.06	NA	NA	340	NA
20331	Ptown	2022-11-03	18:48:02	14.39	8.07	NA	NA	340	NA
20332	Ptown	2022-11-03	19:03:02	14.39	8.08	NA	NA	340	NA
20333	Ptown	2022-11-03	19:18:02	14.41	8.08	NA	NA	340	NA
20334	Ptown	2022-11-03	19:33:02	14.43	8.08	NA	NA	340	NA
20335	Ptown	2022-11-03	19:48:02	14.46	8.08	NA	NA	340	NA
20336	Ptown	2022-11-03	20:03:02	14.46	8.07	NA	NA	340	NA
20337	Ptown	2022-11-03	20:18:02	14.43	8.08	NA	NA	340	NA
20338	Ptown	2022-11-03	20:33:02	14.41	8.08	NA	NA	340	NA
20339	Ptown	2022-11-03	20:48:02	14.39	8.08	NA	NA	340	NA
20340	Ptown	2022-11-03	21:03:02	14.39	8.07	NA	NA	340	NA
20341	Ptown	2022-11-03	21:18:02	14.43	8.08	NA	NA	340	NA
20342	Ptown	2022-11-03	21:33:02	14.41	8.08	NA	NA	340	NA
20343	Ptown	2022-11-03	21:48:02	14.39	8.07	NA	NA	340	NA
20344	Ptown	2022-11-03	22:03:02	14.48	8.09	NA	NA	340	NA
20345	Ptown	2022-11-03	22:18:02	14.67	8.11	NA	NA	340	NA
20346	Ptown	2022-11-03	22:33:02	14.79	8.12	NA	NA	340	NA
20347	Ptown	2022-11-03	22:48:02	14.84	8.12	NA	NA	340	NA
20348	Ptown	2022-11-03	23:03:02	14.96	8.14	NA	NA	340	NA
20349	Ptown	2022-11-03	23:18:02	14.96	8.13	NA	NA	340	NA
20350	Ptown	2022-11-03	23:33:02	14.94	8.12	NA	NA	340	NA
20351	Ptown	2022-11-03	23:48:02	14.86	8.11	NA	NA	340	NA
20352	Ptown	2022-11-04	00:03:02	14.82	8.10	NA	NA	340	NA
20353	Ptown	2022-11-04	00:18:02	14.84	8.06	NA	NA	340	NA

20354	Ptown	2022-11-04	00:33:02	14.74	8.08	NA	NA	340	NA
20355	Ptown	2022-11-04	00:48:02	14.65	8.07	NA	NA	340	NA
20356	Ptown	2022-11-04	01:03:02	14.55	8.05	NA	NA	340	NA
20357	Ptown	2022-11-04	01:18:02	14.41	8.02	NA	NA	340	NA
20358	Ptown	2022-11-04	01:33:02	14.29	8.01	NA	NA	340	NA
20359	Ptown	2022-11-04	01:48:02	14.17	8.00	NA	NA	340	NA
20360	Ptown	2022-11-04	02:03:02	13.86	7.96	NA	NA	340	NA
20361	Ptown	2022-11-04	02:18:02	13.52	7.88	NA	NA	340	NA
20362	Ptown	2022-11-04	02:33:02	13.38	7.83	NA	NA	340	NA
20363	Ptown	2022-11-04	02:48:02	13.23	7.74	NA	NA	340	NA
20364	Ptown	2022-11-04	03:03:02	13.28	7.88	NA	NA	340	NA
20365	Ptown	2022-11-04	03:18:02	13.38	7.87	NA	NA	340	NA
20366	Ptown	2022-11-04	03:33:02	13.47	7.88	NA	NA	340	NA
20367	Ptown	2022-11-04	03:48:02	13.57	7.94	NA	NA	340	NA
20368	Ptown	2022-11-04	04:03:02	13.81	7.95	NA	NA	340	NA
20369	Ptown	2022-11-04	04:18:02	13.81	7.95	NA	NA	340	NA
20370	Ptown	2022-11-04	04:33:02	13.76	7.95	NA	NA	340	NA
20371	Ptown	2022-11-04	04:48:02	13.71	7.94	NA	NA	340	NA
20372	Ptown	2022-11-04	05:03:02	13.79	7.96	NA	NA	340	NA
20373	Ptown	2022-11-04	05:18:02	13.86	7.98	NA	NA	340	NA
20374	Ptown	2022-11-04	05:33:02	13.81	7.96	NA	NA	340	NA
20375	Ptown	2022-11-04	05:48:02	13.91	7.99	NA	NA	340	NA
20376	Ptown	2022-11-04	06:03:02	13.95	8.00	NA	NA	340	NA
20377	Ptown	2022-11-04	06:18:02	13.91	7.99	NA	NA	340	NA
20378	Ptown	2022-11-04	06:33:02	13.93	7.99	NA	NA	340	NA
20379	Ptown	2022-11-04	06:48:02	13.95	7.99	NA	NA	340	NA
20380	Ptown	2022-11-04	07:03:02	13.95	7.99	NA	NA	340	NA
20381	Ptown	2022-11-04	07:18:02	13.95	7.99	NA	NA	340	NA
20382	Ptown	2022-11-04	07:33:02	13.93	7.96	NA	NA	340	NA
20383	Ptown	2022-11-04	07:48:02	13.91	7.96	NA	NA	340	NA
20384	Ptown	2022-11-04	08:03:02	13.91	7.97	NA	NA	340	NA
20385	Ptown	2022-11-04	08:18:02	13.88	7.96	NA	NA	340	NA
20386	Ptown	2022-11-04	08:33:02	13.88	7.95	NA	NA	340	NA
20387	Ptown	2022-11-04	08:48:02	13.88	7.94	NA	NA	340	NA
20388	Ptown	2022-11-04	09:03:02	13.91	7.96	NA	NA	340	NA
20389	Ptown	2022-11-04	09:18:02	13.91	7.97	NA	NA	340	NA
20390	Ptown	2022-11-04	09:33:02	13.93	7.97	NA	NA	340	NA
20391	Ptown	2022-11-04	09:48:02	13.88	7.98	NA	NA	340	NA
20392	Ptown	2022-11-04	10:03:02	13.91	7.98	NA	NA	340	NA
20393	Ptown	2022-11-04	10:18:02	13.98	7.99	NA	NA	340	NA
20394	Ptown	2022-11-04	10:33:02	14.03	7.99	NA	NA	340	NA

20395	Ptown	2022-11-04	10:48:02	14.00	7.98	NA	NA	340	NA
20396	Ptown	2022-11-04	11:03:02	13.91	7.95	NA	NA	340	NA
20397	Ptown	2022-11-04	11:18:02	13.91	7.96	NA	NA	340	NA
20398	Ptown	2022-11-04	11:33:02	13.91	7.95	NA	NA	340	NA
20399	Ptown	2022-11-04	11:48:02	13.93	7.95	NA	NA	340	NA
20400	Ptown	2022-11-04	12:03:02	13.95	7.95	NA	NA	340	NA
20401	Ptown	2022-11-04	12:18:02	14.00	7.95	NA	NA	340	NA
20402	Ptown	2022-11-04	12:33:02	14.07	7.94	NA	NA	340	NA
20403	Ptown	2022-11-04	12:48:02	14.24	7.97	NA	NA	340	NA
20404	Ptown	2022-11-04	13:03:02	14.41	7.95	NA	NA	340	NA
20405	Ptown	2022-11-04	13:18:02	14.70	7.97	NA	NA	340	NA
20406	Ptown	2022-11-04	13:33:02	15.06	8.02	NA	NA	340	NA
20407	Ptown	2022-11-04	13:48:02	16.01	8.03	NA	NA	340	NA
20408	Ptown	2022-11-04	14:03:02	16.75	8.12	NA	NA	340	NA
20409	Ptown	2022-11-04	14:18:02	16.39	8.14	NA	NA	340	NA
20410	Ptown	2022-11-04	14:33:02	16.37	8.16	NA	NA	340	NA
20411	Ptown	2022-11-04	14:48:02	16.53	8.20	NA	NA	340	NA
20412	Ptown	2022-11-04	15:03:02	16.70	8.23	NA	NA	340	NA
20413	Ptown	2022-11-04	15:18:02	17.01	8.34	NA	NA	340	NA
20414	Ptown	2022-11-04	15:33:02	16.44	8.22	NA	NA	340	NA
20415	Ptown	2022-11-04	15:48:02	16.18	8.18	NA	NA	340	NA
20416	Ptown	2022-11-04	16:03:02	16.27	8.21	NA	NA	340	NA
20417	Ptown	2022-11-04	16:18:02	15.99	8.16	NA	NA	340	NA
20418	Ptown	2022-11-04	16:33:02	16.15	8.20	NA	NA	340	NA
20419	Ptown	2022-11-04	16:48:02	16.08	8.20	NA	NA	340	NA
20420	Ptown	2022-11-04	17:03:02	15.96	8.18	NA	NA	340	NA
20421	Ptown	2022-11-04	17:18:02	15.51	8.14	NA	NA	340	NA
20422	Ptown	2022-11-04	17:33:02	15.39	8.12	NA	NA	340	NA
20423	Ptown	2022-11-04	17:48:02	15.34	8.10	NA	NA	340	NA
20424	Ptown	2022-11-04	18:03:02	15.17	8.08	NA	NA	340	NA
20425	Ptown	2022-11-04	18:18:02	15.03	8.07	NA	NA	340	NA
20426	Ptown	2022-11-04	18:33:02	14.86	8.06	NA	NA	340	NA
20427	Ptown	2022-11-04	18:48:02	14.79	8.04	NA	NA	340	NA
20428	Ptown	2022-11-04	19:03:02	14.74	8.03	NA	NA	340	NA
20429	Ptown	2022-11-04	19:18:02	14.74	8.02	NA	NA	340	NA
20430	Ptown	2022-11-04	19:33:02	14.72	8.02	NA	NA	340	NA
20431	Ptown	2022-11-04	19:48:02	14.74	8.03	NA	NA	340	NA
20432	Ptown	2022-11-04	20:03:02	14.74	8.03	NA	NA	340	NA
20433	Ptown	2022-11-04	20:18:02	14.77	8.04	NA	NA	340	NA
20434	Ptown	2022-11-04	20:33:02	14.77	8.03	NA	NA	340	NA
20435	Ptown	2022-11-04	20:48:02	14.79	8.04	NA	NA	340	NA

20436	Ptown	2022-11-04	21:03:02	14.79	8.03	NA	NA	340	NA
20437	Ptown	2022-11-04	21:18:02	14.79	8.04	NA	NA	340	NA
20438	Ptown	2022-11-04	21:33:02	14.79	8.04	NA	NA	340	NA
20439	Ptown	2022-11-04	21:48:02	14.79	8.05	NA	NA	340	NA
20440	Ptown	2022-11-04	22:03:02	14.79	8.05	NA	NA	340	NA
20441	Ptown	2022-11-04	22:18:02	14.82	8.05	NA	NA	340	NA
20442	Ptown	2022-11-04	22:33:02	14.84	8.04	NA	NA	340	NA
20443	Ptown	2022-11-04	22:48:02	14.89	8.04	NA	NA	340	NA
20444	Ptown	2022-11-04	23:03:02	14.91	8.04	NA	NA	340	NA
20445	Ptown	2022-11-04	23:18:02	14.94	8.03	NA	NA	340	NA
20446	Ptown	2022-11-04	23:33:02	14.98	8.04	NA	NA	340	NA
20447	Ptown	2022-11-04	23:48:02	14.98	8.03	NA	NA	340	NA
20448	Ptown	2022-11-05	00:03:02	14.98	8.01	NA	NA	340	NA
20449	Ptown	2022-11-05	00:18:02	15.03	8.01	NA	NA	340	NA
20450	Ptown	2022-11-05	00:33:02	15.06	8.01	NA	NA	340	NA
20451	Ptown	2022-11-05	00:48:02	15.08	8.00	NA	NA	340	NA
20452	Ptown	2022-11-05	01:03:02	15.20	8.02	NA	NA	340	NA
20453	Ptown	2022-11-05	01:18:02	15.34	8.07	NA	NA	340	NA
20454	Ptown	2022-11-05	01:33:02	15.32	8.11	NA	NA	340	NA
20455	Ptown	2022-11-05	01:48:02	15.25	8.11	NA	NA	340	NA
20456	Ptown	2022-11-05	02:03:02	15.20	8.09	NA	NA	340	NA
20457	Ptown	2022-11-05	02:18:02	15.10	8.07	NA	NA	340	NA
20458	Ptown	2022-11-05	02:33:02	15.06	8.07	NA	NA	340	NA
20459	Ptown	2022-11-05	02:48:02	14.91	8.00	NA	NA	340	NA
20460	Ptown	2022-11-05	03:03:02	14.86	8.00	NA	NA	340	NA
20461	Ptown	2022-11-05	03:18:02	14.86	7.95	NA	NA	340	NA
20462	Ptown	2022-11-05	03:33:02	14.82	7.90	NA	NA	340	NA
20463	Ptown	2022-11-05	03:48:02	14.53	7.62	NA	NA	340	NA
20464	Ptown	2022-11-05	04:03:02	14.46	7.67	NA	NA	340	NA
20465	Ptown	2022-11-05	04:18:02	14.62	7.97	NA	NA	340	NA
20466	Ptown	2022-11-05	04:33:02	14.74	7.96	NA	NA	340	NA
20467	Ptown	2022-11-05	04:48:02	14.86	8.01	NA	NA	340	NA
20468	Ptown	2022-11-05	05:03:02	14.94	8.01	NA	NA	340	NA
20469	Ptown	2022-11-05	05:18:02	14.96	8.02	NA	NA	340	NA
20470	Ptown	2022-11-05	05:33:02	14.98	8.02	NA	NA	340	NA
20471	Ptown	2022-11-05	05:48:02	14.96	8.01	NA	NA	340	NA
20472	Ptown	2022-11-05	06:03:02	14.98	8.02	NA	NA	340	NA
20473	Ptown	2022-11-05	06:18:02	15.01	8.03	NA	NA	340	NA
20474	Ptown	2022-11-05	06:33:02	15.03	8.03	NA	NA	340	NA
20475	Ptown	2022-11-05	06:48:02	15.01	8.02	NA	NA	340	NA
20476	Ptown	2022-11-05	07:03:02	15.01	8.02	NA	NA	340	NA

20477	Ptown	2022-11-05	07:18:02	15.01	8.02	NA	NA	340	NA
20478	Ptown	2022-11-05	07:33:02	14.98	8.01	NA	NA	340	NA
20479	Ptown	2022-11-05	07:48:02	14.91	8.00	NA	NA	340	NA
20480	Ptown	2022-11-05	08:03:02	14.89	7.99	NA	NA	340	NA
20481	Ptown	2022-11-05	08:18:02	14.89	7.99	NA	NA	340	NA
20482	Ptown	2022-11-05	08:33:02	14.84	8.00	NA	NA	340	NA
20483	Ptown	2022-11-05	08:48:02	14.84	8.01	NA	NA	340	NA
20484	Ptown	2022-11-05	09:03:02	14.86	8.00	NA	NA	340	NA
20485	Ptown	2022-11-05	09:18:02	14.86	8.01	NA	NA	340	NA
20486	Ptown	2022-11-05	09:33:02	14.86	8.02	NA	NA	340	NA
20487	Ptown	2022-11-05	09:48:02	14.89	8.03	NA	NA	340	NA
20488	Ptown	2022-11-05	10:03:02	14.89	8.04	NA	NA	340	NA
20489	Ptown	2022-11-05	10:18:02	14.91	8.04	NA	NA	340	NA
20490	Ptown	2022-11-05	10:33:02	14.91	8.05	NA	NA	340	NA
20491	Ptown	2022-11-05	10:48:02	14.94	8.06	NA	NA	340	NA
20492	Ptown	2022-11-05	11:03:02	14.96	8.07	NA	NA	340	NA
20493	Ptown	2022-11-05	11:18:02	15.01	8.08	NA	NA	340	NA
20494	Ptown	2022-11-05	11:33:02	15.06	8.08	NA	NA	340	NA
20495	Ptown	2022-11-05	11:48:02	15.08	8.08	NA	NA	340	NA
20496	Ptown	2022-11-05	12:03:02	15.13	8.07	NA	NA	340	NA
20497	Ptown	2022-11-05	12:18:02	15.17	8.06	NA	NA	340	NA
20498	Ptown	2022-11-05	12:33:02	15.29	8.03	NA	NA	340	NA
20499	Ptown	2022-11-05	12:48:02	15.29	7.99	NA	NA	340	NA
20500	Ptown	2022-11-05	13:03:02	15.39	7.98	NA	NA	340	NA
20501	Ptown	2022-11-05	13:18:02	15.53	7.95	NA	NA	340	NA
20502	Ptown	2022-11-05	13:33:02	15.72	7.96	NA	NA	340	NA
20503	Ptown	2022-11-05	13:48:02	15.70	7.96	NA	NA	340	NA
20504	Ptown	2022-11-05	14:03:02	16.03	7.95	NA	NA	340	NA
20505	Ptown	2022-11-05	14:18:02	16.46	7.92	NA	NA	340	NA
20506	Ptown	2022-11-05	14:33:02	17.01	8.03	NA	NA	340	NA
20507	Ptown	2022-11-05	14:48:02	17.01	8.11	NA	NA	340	NA
20508	Ptown	2022-11-05	15:03:02	17.13	8.14	NA	NA	340	NA
20509	Ptown	2022-11-05	15:18:02	17.37	8.16	NA	NA	340	NA
20510	Ptown	2022-11-05	15:33:02	17.46	8.27	NA	NA	340	NA
20511	Ptown	2022-11-05	15:48:02	17.13	8.38	NA	NA	340	NA
20512	Ptown	2022-11-05	16:03:02	17.06	8.53	NA	NA	340	NA
20513	Ptown	2022-11-05	16:18:02	17.42	8.51	NA	NA	340	NA
20514	Ptown	2022-11-05	16:33:02	17.32	8.47	NA	NA	340	NA
20515	Ptown	2022-11-05	16:48:02	17.06	8.34	NA	NA	340	NA
20516	Ptown	2022-11-05	17:03:02	16.82	8.20	NA	NA	340	NA
20517	Ptown	2022-11-05	17:18:02	16.80	8.15	NA	NA	340	NA

20518	Ptown	2022-11-05	17:33:02	16.80	8.12	NA	NA	340	NA
20519	Ptown	2022-11-05	17:48:02	16.68	8.09	NA	NA	340	NA
20520	Ptown	2022-11-05	18:03:02	16.46	8.08	NA	NA	340	NA
20521	Ptown	2022-11-05	18:18:02	16.15	8.07	NA	NA	340	NA
20522	Ptown	2022-11-05	18:33:02	16.11	8.05	NA	NA	340	NA
20523	Ptown	2022-11-05	18:48:02	16.08	8.04	NA	NA	340	NA
20524	Ptown	2022-11-05	19:03:02	16.01	8.04	NA	NA	340	NA
20525	Ptown	2022-11-05	19:18:02	15.94	8.05	NA	NA	340	NA
20526	Ptown	2022-11-05	19:33:02	15.91	8.03	NA	NA	340	NA
20527	Ptown	2022-11-05	19:48:02	15.87	8.02	NA	NA	340	NA
20528	Ptown	2022-11-05	20:03:02	15.82	8.03	NA	NA	340	NA
20529	Ptown	2022-11-05	20:18:02	15.77	8.05	NA	NA	340	NA
20530	Ptown	2022-11-05	20:33:02	15.72	8.06	NA	NA	340	NA
20531	Ptown	2022-11-05	20:48:02	15.70	8.07	NA	NA	340	NA
20532	Ptown	2022-11-05	21:03:02	15.63	8.08	NA	NA	340	NA
20533	Ptown	2022-11-05	21:18:02	15.65	8.07	NA	NA	340	NA
20534	Ptown	2022-11-05	21:33:02	15.58	8.07	NA	NA	340	NA
20535	Ptown	2022-11-05	21:48:02	15.56	8.06	NA	NA	340	NA
20536	Ptown	2022-11-05	22:03:02	15.53	8.05	NA	NA	340	NA
20537	Ptown	2022-11-05	22:18:02	15.51	8.04	NA	NA	340	NA
20538	Ptown	2022-11-05	22:33:02	15.53	8.03	NA	NA	340	NA
20539	Ptown	2022-11-05	22:48:02	15.51	8.03	NA	NA	340	NA
20540	Ptown	2022-11-05	23:03:02	15.53	8.04	NA	NA	340	NA
20541	Ptown	2022-11-05	23:18:02	15.56	8.03	NA	NA	340	NA
20542	Ptown	2022-11-05	23:33:02	15.60	8.05	NA	NA	340	NA
20543	Ptown	2022-11-05	23:48:02	15.63	8.06	NA	NA	340	NA
37957	Eel	2022-09-29	00:15:00	19.58	7.94	NA	NA	76	NA
37958	Eel	2022-09-29	00:30:00	19.56	7.94	NA	NA	76	NA
37959	Eel	2022-09-29	00:45:00	19.51	7.93	NA	NA	76	NA
37960	Eel	2022-09-29	01:00:00	19.48	7.93	NA	NA	76	NA
37961	Eel	2022-09-29	01:15:00	19.44	7.93	NA	NA	76	NA
37962	Eel	2022-09-29	01:30:00	19.41	7.93	NA	NA	76	NA
37963	Eel	2022-09-29	01:45:00	19.41	7.92	NA	NA	76	NA
37964	Eel	2022-09-29	02:00:00	19.39	7.92	NA	NA	76	NA
37965	Eel	2022-09-29	02:15:00	19.27	7.91	NA	NA	76	NA
37966	Eel	2022-09-29	02:30:00	19.29	7.91	NA	NA	76	NA
37967	Eel	2022-09-29	02:45:00	19.29	7.91	NA	NA	76	NA
37968	Eel	2022-09-29	03:00:00	19.25	7.91	NA	NA	76	NA
37969	Eel	2022-09-29	03:15:00	19.22	7.91	NA	NA	76	NA
37970	Eel	2022-09-29	03:30:00	19.20	7.91	NA	NA	76	NA
37971	Eel	2022-09-29	03:45:00	18.98	7.92	NA	NA	76	NA

37972	Eel	2022-09-29	04:00:00	18.79	7.92	NA	NA	76	NA
37973	Eel	2022-09-29	04:15:00	18.96	7.90	NA	NA	76	NA
37974	Eel	2022-09-29	04:30:00	18.91	7.90	NA	NA	76	NA
37975	Eel	2022-09-29	04:45:00	18.91	7.89	NA	NA	76	NA
37976	Eel	2022-09-29	05:00:00	18.89	7.89	NA	NA	76	NA
37977	Eel	2022-09-29	05:15:00	18.77	7.89	NA	NA	76	NA
37978	Eel	2022-09-29	05:30:00	18.75	7.89	NA	NA	76	NA
37979	Eel	2022-09-29	05:45:00	18.70	7.88	NA	NA	76	NA
37980	Eel	2022-09-29	06:00:00	18.63	7.88	NA	NA	76	NA
37981	Eel	2022-09-29	06:15:00	18.58	7.88	NA	NA	76	NA
37982	Eel	2022-09-29	06:30:00	18.53	7.87	NA	NA	76	NA
37983	Eel	2022-09-29	06:45:00	18.56	7.87	NA	NA	76	NA
37984	Eel	2022-09-29	07:00:00	18.56	7.87	NA	NA	76	NA
37985	Eel	2022-09-29	07:15:00	18.53	7.87	NA	NA	76	NA
37986	Eel	2022-09-29	07:30:00	18.63	7.87	NA	NA	76	NA
37987	Eel	2022-09-29	07:45:00	18.60	7.87	NA	NA	76	NA
37988	Eel	2022-09-29	08:00:00	18.56	7.88	NA	NA	76	NA
37989	Eel	2022-09-29	08:15:00	18.56	7.88	NA	NA	76	NA
37990	Eel	2022-09-29	08:30:00	18.56	7.88	NA	NA	76	NA
37991	Eel	2022-09-29	08:45:00	18.53	7.88	NA	NA	76	NA
37992	Eel	2022-09-29	09:00:00	18.46	7.86	NA	NA	76	NA
37993	Eel	2022-09-29	09:15:00	18.63	7.90	NA	NA	76	NA
37994	Eel	2022-09-29	09:30:00	18.79	7.89	NA	NA	76	NA
37995	Eel	2022-09-29	09:45:00	18.84	7.90	NA	NA	76	NA
37996	Eel	2022-09-29	10:00:00	18.87	7.90	NA	NA	76	NA
37997	Eel	2022-09-29	10:15:00	18.91	7.90	NA	NA	76	NA
37998	Eel	2022-09-29	10:30:00	18.96	7.91	NA	NA	76	NA
37999	Eel	2022-09-29	10:45:00	19.01	7.91	NA	NA	76	NA
38000	Eel	2022-09-29	11:00:00	19.06	7.92	NA	NA	76	NA
38001	Eel	2022-09-29	11:15:00	19.10	7.92	NA	NA	76	NA
38002	Eel	2022-09-29	11:30:00	19.15	7.93	NA	NA	76	NA
38003	Eel	2022-09-29	11:45:00	19.22	7.93	NA	NA	76	NA
38004	Eel	2022-09-29	12:00:00	19.25	7.94	NA	NA	76	NA
38005	Eel	2022-09-29	12:15:00	19.29	7.94	NA	NA	76	NA
38006	Eel	2022-09-29	12:30:00	19.32	7.94	NA	NA	76	NA
38007	Eel	2022-09-29	12:45:00	19.37	7.94	NA	NA	76	NA
38008	Eel	2022-09-29	13:00:00	19.37	7.95	NA	NA	76	NA
38009	Eel	2022-09-29	13:15:00	19.39	7.95	NA	NA	76	NA
38010	Eel	2022-09-29	13:30:00	19.39	7.96	NA	NA	76	NA
38011	Eel	2022-09-29	13:45:00	19.37	7.96	NA	NA	76	NA
38012	Eel	2022-09-29	14:00:00	19.37	7.96	NA	NA	76	NA

38013	Eel	2022-09-29	14:15:00	19.37	7.97	NA	NA	76	NA
38014	Eel	2022-09-29	14:30:00	19.34	7.97	NA	NA	76	NA
38015	Eel	2022-09-29	14:45:00	19.32	7.97	NA	NA	76	NA
38016	Eel	2022-09-29	15:00:00	19.32	7.97	NA	NA	76	NA
38017	Eel	2022-09-29	15:15:00	19.32	7.97	NA	NA	76	NA
38018	Eel	2022-09-29	15:30:00	19.34	7.97	NA	NA	76	NA
38019	Eel	2022-09-29	15:45:00	19.41	7.97	NA	NA	76	NA
38020	Eel	2022-09-29	16:00:00	19.41	7.97	NA	NA	76	NA
38021	Eel	2022-09-29	16:15:00	19.39	7.97	NA	NA	76	NA
38022	Eel	2022-09-29	16:30:00	19.37	7.97	NA	NA	76	NA
38023	Eel	2022-09-29	16:45:00	19.41	7.98	NA	NA	76	NA
38024	Eel	2022-09-29	17:00:00	19.41	7.98	NA	NA	76	NA
38025	Eel	2022-09-29	17:15:00	19.39	7.98	NA	NA	76	NA
38026	Eel	2022-09-29	17:30:00	19.37	7.98	NA	NA	76	NA
38027	Eel	2022-09-29	17:45:00	19.34	7.97	NA	NA	76	NA
38028	Eel	2022-09-29	18:00:00	19.34	7.97	NA	NA	76	NA
38029	Eel	2022-09-29	18:15:00	19.32	7.96	NA	NA	76	NA
38030	Eel	2022-09-29	18:30:00	19.29	7.95	NA	NA	76	NA
38031	Eel	2022-09-29	18:45:00	19.27	7.95	NA	NA	76	NA
38032	Eel	2022-09-29	19:00:00	19.25	7.95	NA	NA	76	NA
38033	Eel	2022-09-29	19:15:00	19.20	7.95	NA	NA	76	NA
38034	Eel	2022-09-29	19:30:00	19.15	7.94	NA	NA	76	NA
38035	Eel	2022-09-29	19:45:00	19.15	7.93	NA	NA	76	NA
38036	Eel	2022-09-29	20:00:00	19.15	7.93	NA	NA	76	NA
38037	Eel	2022-09-29	20:15:00	19.10	7.93	NA	NA	76	NA
38038	Eel	2022-09-29	20:30:00	18.96	7.93	NA	NA	76	NA
38039	Eel	2022-09-29	20:45:00	18.25	7.94	NA	NA	76	NA
38040	Eel	2022-09-29	21:00:00	16.49	7.94	NA	NA	76	NA
38041	Eel	2022-09-29	21:15:00	15.63	7.93	NA	NA	76	NA
38042	Eel	2022-09-29	21:30:00	15.70	7.94	NA	NA	76	NA
38043	Eel	2022-09-29	21:45:00	17.63	7.95	NA	NA	76	NA
38044	Eel	2022-09-29	22:00:00	18.53	7.95	NA	NA	76	NA
38045	Eel	2022-09-29	22:15:00	18.68	7.93	NA	NA	76	NA
38046	Eel	2022-09-29	22:30:00	18.79	7.93	NA	NA	76	NA
38047	Eel	2022-09-29	22:45:00	18.82	7.93	NA	NA	76	NA
38048	Eel	2022-09-29	23:00:00	18.84	7.93	NA	NA	76	NA
38049	Eel	2022-09-29	23:15:00	18.84	7.93	NA	NA	76	NA
38050	Eel	2022-09-29	23:30:00	18.84	7.93	NA	NA	76	NA
38051	Eel	2022-09-29	23:45:00	18.84	7.93	NA	NA	76	NA
38052	Eel	2022-09-30	00:00:00	18.82	7.93	NA	NA	76	NA
38053	Eel	2022-09-30	00:15:00	18.82	7.93	NA	NA	76	NA

38054	Eel	2022-09-30	00:30:00	18.84	7.93	NA	NA	76	NA
38055	Eel	2022-09-30	00:45:00	18.84	7.93	NA	NA	76	NA
38056	Eel	2022-09-30	01:00:00	18.79	7.93	NA	NA	76	NA
38057	Eel	2022-09-30	01:15:00	18.77	7.92	NA	NA	76	NA
38058	Eel	2022-09-30	01:30:00	18.70	7.92	NA	NA	76	NA
38059	Eel	2022-09-30	01:45:00	18.70	7.92	NA	NA	76	NA
38060	Eel	2022-09-30	02:00:00	18.65	7.92	NA	NA	76	NA
38061	Eel	2022-09-30	02:15:00	18.63	7.91	NA	NA	76	NA
38062	Eel	2022-09-30	02:30:00	18.60	7.91	NA	NA	76	NA
38063	Eel	2022-09-30	02:45:00	18.60	7.91	NA	NA	76	NA
38064	Eel	2022-09-30	03:00:00	18.58	7.90	NA	NA	76	NA
38065	Eel	2022-09-30	03:15:00	18.58	7.91	NA	NA	76	NA
38066	Eel	2022-09-30	03:30:00	18.58	7.91	NA	NA	76	NA
38067	Eel	2022-09-30	03:45:00	18.56	7.91	NA	NA	76	NA
38068	Eel	2022-09-30	04:00:00	18.51	7.91	NA	NA	76	NA
38069	Eel	2022-09-30	04:15:00	18.51	7.91	NA	NA	76	NA
38070	Eel	2022-09-30	04:30:00	18.46	7.91	NA	NA	76	NA
38071	Eel	2022-09-30	04:45:00	18.46	7.90	NA	NA	76	NA
38072	Eel	2022-09-30	05:00:00	18.41	7.90	NA	NA	76	NA
38073	Eel	2022-09-30	05:15:00	18.25	7.90	NA	NA	76	NA
38074	Eel	2022-09-30	05:30:00	18.06	7.89	NA	NA	76	NA
38075	Eel	2022-09-30	05:45:00	18.13	7.89	NA	NA	76	NA
38076	Eel	2022-09-30	06:00:00	18.15	7.89	NA	NA	76	NA
38077	Eel	2022-09-30	06:15:00	18.08	7.89	NA	NA	76	NA
38078	Eel	2022-09-30	06:30:00	18.10	7.88	NA	NA	76	NA
38079	Eel	2022-09-30	06:45:00	18.06	7.87	NA	NA	76	NA
38080	Eel	2022-09-30	07:00:00	17.99	7.87	NA	NA	76	NA
38081	Eel	2022-09-30	07:15:00	18.01	7.86	NA	NA	76	NA
38082	Eel	2022-09-30	07:30:00	18.01	7.86	NA	NA	76	NA
38083	Eel	2022-09-30	07:45:00	17.89	7.87	NA	NA	76	NA
38084	Eel	2022-09-30	08:00:00	17.89	7.87	NA	NA	76	NA
38085	Eel	2022-09-30	08:15:00	17.94	7.87	NA	NA	76	NA
38086	Eel	2022-09-30	08:30:00	17.99	7.88	NA	NA	76	NA
38087	Eel	2022-09-30	08:45:00	18.06	7.88	NA	NA	76	NA
38088	Eel	2022-09-30	09:00:00	18.18	7.89	NA	NA	76	NA
38089	Eel	2022-09-30	09:15:00	18.25	7.89	NA	NA	76	NA
38090	Eel	2022-09-30	09:30:00	17.91	7.89	NA	NA	76	NA
38091	Eel	2022-09-30	09:45:00	17.82	7.89	NA	NA	76	NA
38092	Eel	2022-09-30	10:00:00	18.01	7.91	NA	NA	76	NA
38093	Eel	2022-09-30	10:15:00	18.30	7.91	NA	NA	76	NA
38094	Eel	2022-09-30	10:30:00	18.34	7.92	NA	NA	76	NA

38095	Eel	2022-09-30	10:45:00	18.39	7.92	NA	NA	76	NA
38096	Eel	2022-09-30	11:00:00	18.46	7.92	NA	NA	76	NA
38097	Eel	2022-09-30	11:15:00	18.53	7.93	NA	NA	76	NA
38098	Eel	2022-09-30	11:30:00	18.60	7.93	NA	NA	76	NA
38099	Eel	2022-09-30	11:45:00	18.65	7.93	NA	NA	76	NA
38100	Eel	2022-09-30	12:00:00	18.68	7.93	NA	NA	76	NA
38101	Eel	2022-09-30	12:15:00	18.70	7.93	NA	NA	76	NA
38102	Eel	2022-09-30	12:30:00	18.75	7.94	NA	NA	76	NA
38103	Eel	2022-09-30	12:45:00	18.79	7.94	NA	NA	76	NA
38104	Eel	2022-09-30	13:00:00	18.82	7.94	NA	NA	76	NA
38105	Eel	2022-09-30	13:15:00	18.89	7.95	NA	NA	76	NA
38106	Eel	2022-09-30	13:30:00	18.94	7.95	NA	NA	76	NA
38107	Eel	2022-09-30	13:45:00	18.96	7.95	NA	NA	76	NA
38108	Eel	2022-09-30	14:00:00	18.98	7.95	NA	NA	76	NA
38109	Eel	2022-09-30	14:15:00	19.06	7.96	NA	NA	76	NA
38110	Eel	2022-09-30	14:30:00	19.06	7.96	NA	NA	76	NA
38111	Eel	2022-09-30	14:45:00	19.08	7.96	NA	NA	76	NA
38112	Eel	2022-09-30	15:00:00	19.10	7.97	NA	NA	76	NA
38113	Eel	2022-09-30	15:15:00	19.13	7.99	NA	NA	76	NA
38114	Eel	2022-09-30	15:30:00	19.10	8.02	NA	NA	76	NA
38115	Eel	2022-09-30	15:45:00	19.08	8.00	NA	NA	76	NA
38116	Eel	2022-09-30	16:00:00	19.01	8.00	NA	NA	76	NA
38117	Eel	2022-09-30	16:15:00	18.96	7.98	NA	NA	76	NA
38118	Eel	2022-09-30	16:30:00	19.01	7.98	NA	NA	76	NA
38119	Eel	2022-09-30	16:45:00	19.06	7.99	NA	NA	76	NA
38120	Eel	2022-09-30	17:00:00	18.94	7.99	NA	NA	76	NA
38121	Eel	2022-09-30	17:15:00	18.98	8.00	NA	NA	76	NA
38122	Eel	2022-09-30	17:30:00	19.03	7.99	NA	NA	76	NA
38123	Eel	2022-09-30	17:45:00	19.03	7.98	NA	NA	76	NA
38124	Eel	2022-09-30	18:00:00	19.03	7.97	NA	NA	76	NA
38125	Eel	2022-09-30	18:15:00	19.01	7.97	NA	NA	76	NA
38126	Eel	2022-09-30	18:30:00	18.98	7.97	NA	NA	76	NA
38127	Eel	2022-09-30	18:45:00	18.94	7.96	NA	NA	76	NA
38128	Eel	2022-09-30	19:00:00	18.91	7.95	NA	NA	76	NA
38129	Eel	2022-09-30	19:15:00	18.87	7.95	NA	NA	76	NA
38130	Eel	2022-09-30	19:30:00	18.82	7.95	NA	NA	76	NA
38131	Eel	2022-09-30	19:45:00	18.79	7.95	NA	NA	76	NA
38132	Eel	2022-09-30	20:00:00	18.72	7.96	NA	NA	76	NA
38133	Eel	2022-09-30	20:15:00	18.70	7.95	NA	NA	76	NA
38134	Eel	2022-09-30	20:30:00	18.68	7.94	NA	NA	76	NA
38135	Eel	2022-09-30	20:45:00	18.63	7.94	NA	NA	76	NA

38136	Eel	2022-09-30	21:00:00	18.63	7.94	NA	NA	76	NA
38137	Eel	2022-09-30	21:15:00	18.60	7.94	NA	NA	76	NA
38138	Eel	2022-09-30	21:30:00	18.51	7.94	NA	NA	76	NA
38139	Eel	2022-09-30	21:45:00	18.25	7.95	NA	NA	76	NA
38140	Eel	2022-09-30	22:00:00	18.03	7.95	NA	NA	76	NA
38141	Eel	2022-09-30	22:15:00	17.70	7.95	NA	NA	76	NA
38142	Eel	2022-09-30	22:30:00	18.08	7.95	NA	NA	76	NA
38143	Eel	2022-09-30	22:45:00	18.18	7.96	NA	NA	76	NA
38144	Eel	2022-09-30	23:00:00	18.32	7.94	NA	NA	76	NA
38145	Eel	2022-09-30	23:15:00	18.39	7.94	NA	NA	76	NA
38146	Eel	2022-09-30	23:30:00	18.39	7.94	NA	NA	76	NA
38147	Eel	2022-09-30	23:45:00	18.41	7.94	NA	NA	76	NA
38148	Eel	2022-10-01	00:00:00	18.44	7.94	NA	NA	76	NA
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38150	Eel	2022-10-01	00:30:00	18.44	7.93	NA	NA	76	NA
38151	Eel	2022-10-01	00:45:00	18.41	7.93	NA	NA	76	NA
38152	Eel	2022-10-01	01:00:00	18.41	7.93	NA	NA	76	NA
38153	Eel	2022-10-01	01:15:00	18.39	7.93	NA	NA	76	NA
38154	Eel	2022-10-01	01:30:00	18.37	7.93	NA	NA	76	NA
38155	Eel	2022-10-01	01:45:00	18.39	7.93	NA	NA	76	NA
38156	Eel	2022-10-01	02:00:00	18.39	7.92	NA	NA	76	NA
38157	Eel	2022-10-01	02:15:00	18.37	7.92	NA	NA	76	NA
38158	Eel	2022-10-01	02:30:00	18.34	7.92	NA	NA	76	NA
38159	Eel	2022-10-01	02:45:00	18.32	7.92	NA	NA	76	NA
38160	Eel	2022-10-01	03:00:00	18.27	7.91	NA	NA	76	NA
38161	Eel	2022-10-01	03:15:00	18.27	7.91	NA	NA	76	NA
38162	Eel	2022-10-01	03:30:00	18.27	7.91	NA	NA	76	NA
38163	Eel	2022-10-01	03:45:00	18.25	7.90	NA	NA	76	NA
38164	Eel	2022-10-01	04:00:00	18.25	7.90	NA	NA	76	NA
38165	Eel	2022-10-01	04:15:00	18.22	7.91	NA	NA	76	NA
38166	Eel	2022-10-01	04:30:00	18.22	7.91	NA	NA	76	NA
38167	Eel	2022-10-01	04:45:00	18.22	7.91	NA	NA	76	NA
38168	Eel	2022-10-01	05:00:00	18.18	7.91	NA	NA	76	NA
38169	Eel	2022-10-01	05:15:00	18.18	7.91	NA	NA	76	NA
38170	Eel	2022-10-01	05:30:00	18.18	7.90	NA	NA	76	NA
38171	Eel	2022-10-01	05:45:00	18.01	7.90	NA	NA	76	NA
38172	Eel	2022-10-01	06:00:00	17.89	7.89	NA	NA	76	NA
38173	Eel	2022-10-01	06:15:00	17.87	7.88	NA	NA	76	NA
38174	Eel	2022-10-01	06:30:00	17.99	7.89	NA	NA	76	NA
38175	Eel	2022-10-01	06:45:00	18.01	7.89	NA	NA	76	NA
38176	Eel	2022-10-01	07:00:00	18.01	7.88	NA	NA	76	NA

38177	Eel	2022-10-01	07:15:00	17.94	7.87	NA	NA	76	NA
38178	Eel	2022-10-01	07:30:00	17.91	7.87	NA	NA	76	NA
38179	Eel	2022-10-01	07:45:00	17.89	7.87	NA	NA	76	NA
38180	Eel	2022-10-01	08:00:00	17.84	7.87	NA	NA	76	NA
38181	Eel	2022-10-01	08:15:00	17.80	7.87	NA	NA	76	NA
38182	Eel	2022-10-01	08:30:00	17.75	7.87	NA	NA	76	NA
38183	Eel	2022-10-01	08:45:00	17.72	7.88	NA	NA	76	NA
38184	Eel	2022-10-01	09:00:00	17.70	7.88	NA	NA	76	NA
38185	Eel	2022-10-01	09:15:00	17.68	7.88	NA	NA	76	NA
38186	Eel	2022-10-01	09:30:00	17.65	7.89	NA	NA	76	NA
38187	Eel	2022-10-01	09:45:00	17.63	7.89	NA	NA	76	NA
38188	Eel	2022-10-01	10:00:00	17.51	7.88	NA	NA	76	NA
38189	Eel	2022-10-01	10:15:00	17.49	7.87	NA	NA	76	NA
38190	Eel	2022-10-01	10:30:00	17.46	7.87	NA	NA	76	NA
38191	Eel	2022-10-01	10:45:00	17.49	7.87	NA	NA	76	NA
38192	Eel	2022-10-01	11:00:00	17.84	7.88	NA	NA	76	NA
38193	Eel	2022-10-01	11:15:00	17.94	7.88	NA	NA	76	NA
38194	Eel	2022-10-01	11:30:00	17.94	7.89	NA	NA	76	NA
38195	Eel	2022-10-01	11:45:00	17.91	7.89	NA	NA	76	NA
38196	Eel	2022-10-01	12:00:00	17.91	7.89	NA	NA	76	NA
38197	Eel	2022-10-01	12:15:00	17.94	7.89	NA	NA	76	NA
38198	Eel	2022-10-01	12:30:00	17.99	7.90	NA	NA	76	NA
38199	Eel	2022-10-01	12:45:00	17.99	7.90	NA	NA	76	NA
38200	Eel	2022-10-01	13:00:00	18.01	7.90	NA	NA	76	NA
38201	Eel	2022-10-01	13:15:00	18.01	7.90	NA	NA	76	NA
38202	Eel	2022-10-01	13:30:00	18.01	7.90	NA	NA	76	NA
38203	Eel	2022-10-01	13:45:00	18.01	7.90	NA	NA	76	NA
38204	Eel	2022-10-01	14:00:00	17.99	7.90	NA	NA	76	NA
38205	Eel	2022-10-01	14:15:00	17.99	7.90	NA	NA	76	NA
38206	Eel	2022-10-01	14:30:00	17.96	7.90	NA	NA	76	NA
38207	Eel	2022-10-01	14:45:00	18.01	7.90	NA	NA	76	NA
38208	Eel	2022-10-01	15:00:00	18.01	7.90	NA	NA	76	NA
38209	Eel	2022-10-01	15:15:00	17.94	7.90	NA	NA	76	NA
38210	Eel	2022-10-01	15:30:00	17.96	7.90	NA	NA	76	NA
38211	Eel	2022-10-01	15:45:00	17.91	7.90	NA	NA	76	NA
38212	Eel	2022-10-01	16:00:00	17.94	7.91	NA	NA	76	NA
38213	Eel	2022-10-01	16:15:00	17.91	7.91	NA	NA	76	NA
38214	Eel	2022-10-01	16:30:00	17.89	7.90	NA	NA	76	NA
38215	Eel	2022-10-01	16:45:00	17.87	7.90	NA	NA	76	NA
38216	Eel	2022-10-01	17:00:00	17.91	7.90	NA	NA	76	NA
38217	Eel	2022-10-01	17:15:00	17.91	7.90	NA	NA	76	NA

38218	Eel	2022-10-01	17:30:00	17.89	7.89	NA	NA	76	NA
38219	Eel	2022-10-01	17:45:00	17.77	7.90	NA	NA	76	NA
38220	Eel	2022-10-01	18:00:00	17.75	7.90	NA	NA	76	NA
38221	Eel	2022-10-01	18:15:00	17.80	7.89	NA	NA	76	NA
38222	Eel	2022-10-01	18:30:00	17.75	7.89	NA	NA	76	NA
38223	Eel	2022-10-01	18:45:00	17.77	7.89	NA	NA	76	NA
38224	Eel	2022-10-01	19:00:00	17.77	7.89	NA	NA	76	NA
38225	Eel	2022-10-01	19:15:00	17.75	7.89	NA	NA	76	NA
38226	Eel	2022-10-01	19:30:00	17.75	7.88	NA	NA	76	NA
38227	Eel	2022-10-01	19:45:00	17.70	7.88	NA	NA	76	NA
38228	Eel	2022-10-01	20:00:00	17.68	7.88	NA	NA	76	NA
38229	Eel	2022-10-01	20:15:00	17.63	7.88	NA	NA	76	NA
38230	Eel	2022-10-01	20:30:00	17.63	7.87	NA	NA	76	NA
38231	Eel	2022-10-01	20:45:00	17.58	7.87	NA	NA	76	NA
38232	Eel	2022-10-01	21:00:00	17.53	7.87	NA	NA	76	NA
38233	Eel	2022-10-01	21:15:00	17.53	7.86	NA	NA	76	NA
38234	Eel	2022-10-01	21:30:00	17.49	7.85	NA	NA	76	NA
38235	Eel	2022-10-01	21:45:00	17.44	7.85	NA	NA	76	NA
38236	Eel	2022-10-01	22:00:00	17.42	7.84	NA	NA	76	NA
38237	Eel	2022-10-01	22:15:00	17.42	7.84	NA	NA	76	NA
38238	Eel	2022-10-01	22:30:00	17.37	7.84	NA	NA	76	NA
38239	Eel	2022-10-01	22:45:00	17.37	7.84	NA	NA	76	NA
38240	Eel	2022-10-01	23:00:00	17.34	7.84	NA	NA	76	NA
38241	Eel	2022-10-01	23:15:00	17.32	7.83	NA	NA	76	NA
38242	Eel	2022-10-01	23:30:00	17.30	7.83	NA	NA	76	NA
38243	Eel	2022-10-01	23:45:00	17.30	7.82	NA	NA	76	NA
38244	Eel	2022-10-02	00:00:00	17.49	7.85	NA	NA	76	NA
38245	Eel	2022-10-02	00:15:00	17.51	7.86	NA	NA	76	NA
38246	Eel	2022-10-02	00:30:00	17.49	7.86	NA	NA	76	NA
38247	Eel	2022-10-02	00:45:00	17.51	7.86	NA	NA	76	NA
38248	Eel	2022-10-02	01:00:00	17.51	7.86	NA	NA	76	NA
38249	Eel	2022-10-02	01:15:00	17.51	7.86	NA	NA	76	NA
38250	Eel	2022-10-02	01:30:00	17.53	7.86	NA	NA	76	NA
38251	Eel	2022-10-02	01:45:00	17.53	7.86	NA	NA	76	NA
38252	Eel	2022-10-02	02:00:00	17.53	7.86	NA	NA	76	NA
38253	Eel	2022-10-02	02:15:00	17.53	7.86	NA	NA	76	NA
38254	Eel	2022-10-02	02:30:00	17.53	7.86	NA	NA	76	NA
38255	Eel	2022-10-02	02:45:00	17.53	7.86	NA	NA	76	NA
38256	Eel	2022-10-02	03:00:00	17.51	7.86	NA	NA	76	NA
38257	Eel	2022-10-02	03:15:00	17.51	7.86	NA	NA	76	NA
38258	Eel	2022-10-02	03:30:00	17.46	7.85	NA	NA	76	NA

38259	Eel	2022-10-02	03:45:00	17.46	7.85	NA	NA	76	NA
38260	Eel	2022-10-02	04:00:00	17.34	7.83	NA	NA	76	NA
38261	Eel	2022-10-02	04:15:00	17.27	7.82	NA	NA	76	NA
38262	Eel	2022-10-02	04:30:00	17.25	7.82	NA	NA	76	NA
38263	Eel	2022-10-02	04:45:00	17.34	7.84	NA	NA	76	NA
38264	Eel	2022-10-02	05:00:00	17.34	7.84	NA	NA	76	NA
38265	Eel	2022-10-02	05:15:00	17.34	7.84	NA	NA	76	NA
38266	Eel	2022-10-02	05:30:00	17.39	7.85	NA	NA	76	NA
38267	Eel	2022-10-02	05:45:00	17.39	7.85	NA	NA	76	NA
38268	Eel	2022-10-02	06:00:00	17.27	7.83	NA	NA	76	NA
38269	Eel	2022-10-02	06:15:00	17.32	7.84	NA	NA	76	NA
38270	Eel	2022-10-02	06:30:00	17.20	7.83	NA	NA	76	NA
38271	Eel	2022-10-02	06:45:00	17.15	7.83	NA	NA	76	NA
38272	Eel	2022-10-02	07:00:00	17.13	7.82	NA	NA	76	NA
38273	Eel	2022-10-02	07:15:00	17.08	7.81	NA	NA	76	NA
38274	Eel	2022-10-02	07:30:00	17.03	7.81	NA	NA	76	NA
38275	Eel	2022-10-02	07:45:00	17.08	7.83	NA	NA	76	NA
38276	Eel	2022-10-02	08:00:00	17.01	7.81	NA	NA	76	NA
38277	Eel	2022-10-02	08:15:00	16.94	7.79	NA	NA	76	NA
38278	Eel	2022-10-02	08:30:00	16.89	7.78	NA	NA	76	NA
38279	Eel	2022-10-02	08:45:00	16.92	7.80	NA	NA	76	NA
38280	Eel	2022-10-02	09:00:00	16.94	7.81	NA	NA	76	NA
38281	Eel	2022-10-02	09:15:00	16.89	7.81	NA	NA	76	NA
38282	Eel	2022-10-02	09:30:00	16.84	7.80	NA	NA	76	NA
38283	Eel	2022-10-02	09:45:00	16.82	7.80	NA	NA	76	NA
38284	Eel	2022-10-02	10:00:00	16.80	7.80	NA	NA	76	NA
38285	Eel	2022-10-02	10:15:00	16.80	7.80	NA	NA	76	NA
38286	Eel	2022-10-02	10:30:00	16.75	7.80	NA	NA	76	NA
38287	Eel	2022-10-02	10:45:00	16.75	7.81	NA	NA	76	NA
38288	Eel	2022-10-02	11:00:00	16.75	7.82	NA	NA	76	NA
38289	Eel	2022-10-02	11:15:00	16.65	7.81	NA	NA	76	NA
38290	Eel	2022-10-02	11:30:00	16.56	7.77	NA	NA	76	NA
38291	Eel	2022-10-02	11:45:00	16.80	7.87	NA	NA	76	NA
38292	Eel	2022-10-02	12:00:00	16.99	7.87	NA	NA	76	NA
38293	Eel	2022-10-02	12:15:00	17.01	7.86	NA	NA	76	NA
38294	Eel	2022-10-02	12:30:00	17.01	7.86	NA	NA	76	NA
38295	Eel	2022-10-02	12:45:00	17.01	7.86	NA	NA	76	NA
38296	Eel	2022-10-02	13:00:00	17.01	7.87	NA	NA	76	NA
38297	Eel	2022-10-02	13:15:00	17.01	7.87	NA	NA	76	NA
38298	Eel	2022-10-02	13:30:00	17.03	7.88	NA	NA	76	NA
38299	Eel	2022-10-02	13:45:00	17.03	7.88	NA	NA	76	NA

38300	Eel	2022-10-02	14:00:00	17.03	7.88	NA	NA	76	NA
38301	Eel	2022-10-02	14:15:00	17.03	7.89	NA	NA	76	NA
38302	Eel	2022-10-02	14:30:00	16.99	7.89	NA	NA	76	NA
38303	Eel	2022-10-02	14:45:00	17.01	7.89	NA	NA	76	NA
38304	Eel	2022-10-02	15:00:00	17.06	7.89	NA	NA	76	NA
38305	Eel	2022-10-02	15:15:00	17.06	7.89	NA	NA	76	NA
38306	Eel	2022-10-02	15:30:00	17.03	7.89	NA	NA	76	NA
38307	Eel	2022-10-02	15:45:00	17.03	7.88	NA	NA	76	NA
38308	Eel	2022-10-02	16:00:00	17.03	7.88	NA	NA	76	NA
38309	Eel	2022-10-02	16:15:00	17.01	7.88	NA	NA	76	NA
38310	Eel	2022-10-02	16:30:00	16.99	7.88	NA	NA	76	NA
38311	Eel	2022-10-02	16:45:00	16.94	7.88	NA	NA	76	NA
38312	Eel	2022-10-02	17:00:00	16.96	7.88	NA	NA	76	NA
38313	Eel	2022-10-02	17:15:00	16.94	7.88	NA	NA	76	NA
38314	Eel	2022-10-02	17:30:00	16.94	7.88	NA	NA	76	NA
38315	Eel	2022-10-02	17:45:00	16.94	7.87	NA	NA	76	NA
38316	Eel	2022-10-02	18:00:00	16.84	7.87	NA	NA	76	NA
38317	Eel	2022-10-02	18:15:00	16.61	7.86	NA	NA	76	NA
38318	Eel	2022-10-02	18:30:00	16.49	7.87	NA	NA	76	NA
38319	Eel	2022-10-02	18:45:00	16.49	7.87	NA	NA	76	NA
38320	Eel	2022-10-02	19:00:00	16.53	7.86	NA	NA	76	NA
38321	Eel	2022-10-02	19:15:00	16.53	7.87	NA	NA	76	NA
38322	Eel	2022-10-02	19:30:00	16.44	7.86	NA	NA	76	NA
38323	Eel	2022-10-02	19:45:00	16.46	7.86	NA	NA	76	NA
38324	Eel	2022-10-02	20:00:00	16.39	7.86	NA	NA	76	NA
38325	Eel	2022-10-02	20:15:00	16.25	7.86	NA	NA	76	NA
38326	Eel	2022-10-02	20:30:00	16.15	7.86	NA	NA	76	NA
38327	Eel	2022-10-02	20:45:00	16.13	7.85	NA	NA	76	NA
38328	Eel	2022-10-02	21:00:00	16.01	7.85	NA	NA	76	NA
38329	Eel	2022-10-02	21:15:00	15.99	7.85	NA	NA	76	NA
38330	Eel	2022-10-02	21:30:00	15.99	7.85	NA	NA	76	NA
38331	Eel	2022-10-02	21:45:00	15.94	7.85	NA	NA	76	NA
38332	Eel	2022-10-02	22:00:00	15.99	7.85	NA	NA	76	NA
38333	Eel	2022-10-02	22:15:00	15.89	7.84	NA	NA	76	NA
38334	Eel	2022-10-02	22:30:00	15.75	7.83	NA	NA	76	NA
38335	Eel	2022-10-02	22:45:00	15.72	7.82	NA	NA	76	NA
38336	Eel	2022-10-02	23:00:00	15.68	7.81	NA	NA	76	NA
38337	Eel	2022-10-02	23:15:00	15.68	7.81	NA	NA	76	NA
38338	Eel	2022-10-02	23:30:00	15.60	7.81	NA	NA	76	NA
38339	Eel	2022-10-02	23:45:00	15.53	7.81	NA	NA	76	NA
38340	Eel	2022-10-03	00:00:00	15.41	7.82	NA	NA	76	NA

38341	Eel	2022-10-03	00:15:00	15.46	7.81	NA	NA	76	NA
38342	Eel	2022-10-03	00:30:00	15.46	7.81	NA	NA	76	NA
38343	Eel	2022-10-03	00:45:00	15.63	7.84	NA	NA	76	NA
38344	Eel	2022-10-03	01:00:00	15.65	7.84	NA	NA	76	NA
38345	Eel	2022-10-03	01:15:00	15.70	7.84	NA	NA	76	NA
38346	Eel	2022-10-03	01:30:00	15.70	7.84	NA	NA	76	NA
38347	Eel	2022-10-03	01:45:00	15.75	7.84	NA	NA	76	NA
38348	Eel	2022-10-03	02:00:00	15.80	7.85	NA	NA	76	NA
38349	Eel	2022-10-03	02:15:00	15.68	7.84	NA	NA	76	NA
38350	Eel	2022-10-03	02:30:00	15.63	7.84	NA	NA	76	NA
38351	Eel	2022-10-03	02:45:00	15.58	7.84	NA	NA	76	NA
38352	Eel	2022-10-03	03:00:00	15.58	7.84	NA	NA	76	NA
38353	Eel	2022-10-03	03:15:00	15.58	7.84	NA	NA	76	NA
38354	Eel	2022-10-03	03:30:00	15.56	7.84	NA	NA	76	NA
38355	Eel	2022-10-03	03:45:00	15.56	7.84	NA	NA	76	NA
38356	Eel	2022-10-03	04:00:00	15.56	7.84	NA	NA	76	NA
38357	Eel	2022-10-03	04:15:00	15.53	7.83	NA	NA	76	NA
38358	Eel	2022-10-03	04:30:00	15.51	7.83	NA	NA	76	NA
38359	Eel	2022-10-03	04:45:00	15.49	7.83	NA	NA	76	NA
38360	Eel	2022-10-03	05:00:00	15.46	7.83	NA	NA	76	NA
38361	Eel	2022-10-03	05:15:00	15.39	7.83	NA	NA	76	NA
38362	Eel	2022-10-03	05:30:00	15.39	7.83	NA	NA	76	NA
38363	Eel	2022-10-03	05:45:00	15.44	7.83	NA	NA	76	NA
38364	Eel	2022-10-03	06:00:00	15.72	7.84	NA	NA	76	NA
38365	Eel	2022-10-03	06:15:00	15.70	7.84	NA	NA	76	NA
38366	Eel	2022-10-03	06:30:00	15.68	7.84	NA	NA	76	NA
38367	Eel	2022-10-03	06:45:00	15.68	7.84	NA	NA	76	NA
38368	Eel	2022-10-03	07:00:00	15.65	7.84	NA	NA	76	NA
38369	Eel	2022-10-03	07:15:00	15.51	7.83	NA	NA	76	NA
38370	Eel	2022-10-03	07:30:00	15.13	7.81	NA	NA	76	NA
38371	Eel	2022-10-03	07:45:00	15.17	7.82	NA	NA	76	NA
38372	Eel	2022-10-03	08:00:00	15.27	7.83	NA	NA	76	NA
38373	Eel	2022-10-03	08:15:00	15.08	7.82	NA	NA	76	NA
38374	Eel	2022-10-03	08:30:00	15.03	7.81	NA	NA	76	NA
38375	Eel	2022-10-03	08:45:00	14.91	7.81	NA	NA	76	NA
38376	Eel	2022-10-03	09:00:00	14.79	7.80	NA	NA	76	NA
38377	Eel	2022-10-03	09:15:00	14.62	7.80	NA	NA	76	NA
38378	Eel	2022-10-03	09:30:00	14.70	7.81	NA	NA	76	NA
38379	Eel	2022-10-03	09:45:00	14.70	7.81	NA	NA	76	NA
38380	Eel	2022-10-03	10:00:00	14.77	7.81	NA	NA	76	NA
38381	Eel	2022-10-03	10:15:00	14.79	7.82	NA	NA	76	NA

38382	Eel	2022-10-03	10:30:00	14.79	7.82	NA	NA	76	NA
38383	Eel	2022-10-03	10:45:00	14.72	7.81	NA	NA	76	NA
38384	Eel	2022-10-03	11:00:00	14.72	7.82	NA	NA	76	NA
38385	Eel	2022-10-03	11:15:00	14.72	7.82	NA	NA	76	NA
38386	Eel	2022-10-03	11:30:00	14.74	7.83	NA	NA	76	NA
38387	Eel	2022-10-03	11:45:00	14.77	7.83	NA	NA	76	NA
38388	Eel	2022-10-03	12:00:00	14.77	7.83	NA	NA	76	NA
38389	Eel	2022-10-03	12:15:00	14.74	7.84	NA	NA	76	NA
38390	Eel	2022-10-03	12:30:00	14.72	7.84	NA	NA	76	NA
38391	Eel	2022-10-03	12:45:00	14.96	7.87	NA	NA	76	NA
38392	Eel	2022-10-03	13:00:00	15.08	7.87	NA	NA	76	NA
38393	Eel	2022-10-03	13:15:00	15.10	7.87	NA	NA	76	NA
38394	Eel	2022-10-03	13:30:00	15.08	7.86	NA	NA	76	NA
38395	Eel	2022-10-03	13:45:00	15.13	7.87	NA	NA	76	NA
38396	Eel	2022-10-03	14:00:00	15.17	7.87	NA	NA	76	NA
38397	Eel	2022-10-03	14:15:00	15.22	7.87	NA	NA	76	NA
38398	Eel	2022-10-03	14:30:00	15.22	7.87	NA	NA	76	NA
38399	Eel	2022-10-03	14:45:00	15.22	7.87	NA	NA	76	NA
38400	Eel	2022-10-03	15:00:00	15.20	7.87	NA	NA	76	NA
38401	Eel	2022-10-03	15:15:00	15.17	7.87	NA	NA	76	NA
38402	Eel	2022-10-03	15:30:00	15.10	7.87	NA	NA	76	NA
38403	Eel	2022-10-03	15:45:00	15.06	7.87	NA	NA	76	NA
38404	Eel	2022-10-03	16:00:00	15.01	7.87	NA	NA	76	NA
38405	Eel	2022-10-03	16:15:00	14.96	7.87	NA	NA	76	NA
38406	Eel	2022-10-03	16:30:00	14.98	7.87	NA	NA	76	NA
38407	Eel	2022-10-03	16:45:00	14.98	7.87	NA	NA	76	NA
38408	Eel	2022-10-03	17:00:00	14.94	7.87	NA	NA	76	NA
38409	Eel	2022-10-03	17:15:00	14.96	7.86	NA	NA	76	NA
38410	Eel	2022-10-03	17:30:00	15.01	7.87	NA	NA	76	NA
38411	Eel	2022-10-03	17:45:00	15.03	7.87	NA	NA	76	NA
38412	Eel	2022-10-03	18:00:00	15.10	7.87	NA	NA	76	NA
38413	Eel	2022-10-03	18:15:00	15.22	7.87	NA	NA	76	NA
38414	Eel	2022-10-03	18:30:00	15.15	7.87	NA	NA	76	NA
38415	Eel	2022-10-03	18:45:00	15.13	7.86	NA	NA	76	NA
38416	Eel	2022-10-03	19:00:00	15.03	7.85	NA	NA	76	NA
38417	Eel	2022-10-03	19:15:00	14.98	7.86	NA	NA	76	NA
38418	Eel	2022-10-03	19:30:00	14.82	7.86	NA	NA	76	NA
38419	Eel	2022-10-03	19:45:00	14.72	7.86	NA	NA	76	NA
38420	Eel	2022-10-03	20:00:00	14.84	7.86	NA	NA	76	NA
38421	Eel	2022-10-03	20:15:00	14.79	7.86	NA	NA	76	NA
38422	Eel	2022-10-03	20:30:00	14.62	7.86	NA	NA	76	NA

38423	Eel	2022-10-03	20:45:00	14.67	7.85	NA	NA	76	NA
38424	Eel	2022-10-03	21:00:00	14.58	7.85	NA	NA	76	NA
38425	Eel	2022-10-03	21:15:00	14.53	7.85	NA	NA	76	NA
38426	Eel	2022-10-03	21:30:00	14.43	7.85	NA	NA	76	NA
38427	Eel	2022-10-03	21:45:00	14.43	7.85	NA	NA	76	NA
38428	Eel	2022-10-03	22:00:00	14.46	7.85	NA	NA	76	NA
38429	Eel	2022-10-03	22:15:00	14.43	7.85	NA	NA	76	NA
38430	Eel	2022-10-03	22:30:00	14.41	7.84	NA	NA	76	NA
38431	Eel	2022-10-03	22:45:00	14.43	7.84	NA	NA	76	NA
38432	Eel	2022-10-03	23:00:00	14.34	7.84	NA	NA	76	NA
38433	Eel	2022-10-03	23:15:00	14.34	7.84	NA	NA	76	NA
38434	Eel	2022-10-03	23:30:00	14.29	7.83	NA	NA	76	NA
38435	Eel	2022-10-03	23:45:00	14.24	7.82	NA	NA	76	NA
38436	Eel	2022-10-04	00:00:00	14.22	7.82	NA	NA	76	NA
38437	Eel	2022-10-04	00:15:00	14.17	7.81	NA	NA	76	NA
38438	Eel	2022-10-04	00:30:00	14.15	7.80	NA	NA	76	NA
38439	Eel	2022-10-04	00:45:00	14.15	7.80	NA	NA	76	NA
38440	Eel	2022-10-04	01:00:00	14.10	7.80	NA	NA	76	NA
38441	Eel	2022-10-04	01:15:00	14.07	7.80	NA	NA	76	NA
38442	Eel	2022-10-04	01:30:00	14.03	7.80	NA	NA	76	NA
38443	Eel	2022-10-04	01:45:00	14.00	7.80	NA	NA	76	NA
38444	Eel	2022-10-04	02:00:00	14.05	7.80	NA	NA	76	NA
38445	Eel	2022-10-04	02:15:00	14.10	7.81	NA	NA	76	NA
38446	Eel	2022-10-04	02:30:00	14.27	7.83	NA	NA	76	NA
38447	Eel	2022-10-04	02:45:00	14.27	7.83	NA	NA	76	NA
38448	Eel	2022-10-04	03:00:00	14.29	7.84	NA	NA	76	NA
38449	Eel	2022-10-04	03:15:00	14.31	7.84	NA	NA	76	NA
38450	Eel	2022-10-04	03:30:00	14.31	7.84	NA	NA	76	NA
38451	Eel	2022-10-04	03:45:00	14.31	7.85	NA	NA	76	NA
38452	Eel	2022-10-04	04:00:00	14.29	7.84	NA	NA	76	NA
38453	Eel	2022-10-04	04:15:00	14.29	7.84	NA	NA	76	NA
38454	Eel	2022-10-04	04:30:00	14.29	7.84	NA	NA	76	NA
38455	Eel	2022-10-04	04:45:00	14.31	7.84	NA	NA	76	NA
38456	Eel	2022-10-04	05:00:00	14.29	7.84	NA	NA	76	NA
38457	Eel	2022-10-04	05:15:00	14.27	7.84	NA	NA	76	NA
38458	Eel	2022-10-04	05:30:00	14.27	7.83	NA	NA	76	NA
38459	Eel	2022-10-04	05:45:00	14.27	7.83	NA	NA	76	NA
38460	Eel	2022-10-04	06:00:00	14.27	7.83	NA	NA	76	NA
38461	Eel	2022-10-04	06:15:00	14.24	7.83	NA	NA	76	NA
38462	Eel	2022-10-04	06:30:00	14.27	7.83	NA	NA	76	NA
38463	Eel	2022-10-04	06:45:00	14.24	7.83	NA	NA	76	NA

38464	Eel	2022-10-04	07:00:00	14.24	7.83	NA	NA	76	NA
38465	Eel	2022-10-04	07:15:00	14.36	7.83	NA	NA	76	NA
38466	Eel	2022-10-04	07:30:00	14.43	7.84	NA	NA	76	NA
38467	Eel	2022-10-04	07:45:00	14.46	7.84	NA	NA	76	NA
38468	Eel	2022-10-04	08:00:00	14.46	7.84	NA	NA	76	NA
38469	Eel	2022-10-04	08:15:00	14.46	7.84	NA	NA	76	NA
38470	Eel	2022-10-04	08:30:00	14.46	7.84	NA	NA	76	NA
38471	Eel	2022-10-04	08:45:00	14.41	7.84	NA	NA	76	NA
38472	Eel	2022-10-04	09:00:00	14.19	7.82	NA	NA	76	NA
38473	Eel	2022-10-04	09:15:00	14.41	7.84	NA	NA	76	NA
38474	Eel	2022-10-04	09:30:00	14.41	7.84	NA	NA	76	NA
38475	Eel	2022-10-04	09:45:00	14.29	7.83	NA	NA	76	NA
38476	Eel	2022-10-04	10:00:00	14.22	7.82	NA	NA	76	NA
38477	Eel	2022-10-04	10:15:00	14.15	7.82	NA	NA	76	NA
38478	Eel	2022-10-04	10:30:00	14.10	7.82	NA	NA	76	NA
38479	Eel	2022-10-04	10:45:00	14.12	7.82	NA	NA	76	NA
38480	Eel	2022-10-04	11:00:00	14.12	7.82	NA	NA	76	NA
38481	Eel	2022-10-04	11:15:00	14.15	7.82	NA	NA	76	NA
38482	Eel	2022-10-04	11:30:00	14.15	7.82	NA	NA	76	NA
38483	Eel	2022-10-04	11:45:00	14.17	7.82	NA	NA	76	NA
38484	Eel	2022-10-04	12:00:00	14.15	7.82	NA	NA	76	NA
38485	Eel	2022-10-04	12:15:00	14.15	7.82	NA	NA	76	NA
38486	Eel	2022-10-04	12:30:00	14.15	7.82	NA	NA	76	NA
38487	Eel	2022-10-04	12:45:00	14.15	7.83	NA	NA	76	NA
38488	Eel	2022-10-04	13:00:00	14.19	7.83	NA	NA	76	NA
38489	Eel	2022-10-04	13:15:00	14.17	7.81	NA	NA	76	NA
38490	Eel	2022-10-04	13:30:00	14.24	7.83	NA	NA	76	NA
38491	Eel	2022-10-04	13:45:00	14.39	7.87	NA	NA	76	NA
38492	Eel	2022-10-04	14:00:00	14.48	7.88	NA	NA	76	NA
38493	Eel	2022-10-04	14:15:00	14.48	7.87	NA	NA	76	NA
38494	Eel	2022-10-04	14:30:00	14.51	7.87	NA	NA	76	NA
38495	Eel	2022-10-04	14:45:00	14.55	7.87	NA	NA	76	NA
38496	Eel	2022-10-04	15:00:00	14.58	7.88	NA	NA	76	NA
38497	Eel	2022-10-04	15:15:00	14.58	7.88	NA	NA	76	NA
38498	Eel	2022-10-04	15:30:00	14.58	7.87	NA	NA	76	NA
38499	Eel	2022-10-04	15:45:00	14.58	7.87	NA	NA	76	NA
38500	Eel	2022-10-04	16:00:00	14.58	7.87	NA	NA	76	NA
38501	Eel	2022-10-04	16:15:00	14.60	7.88	NA	NA	76	NA
38502	Eel	2022-10-04	16:30:00	14.60	7.88	NA	NA	76	NA
38503	Eel	2022-10-04	16:45:00	14.62	7.88	NA	NA	76	NA
38504	Eel	2022-10-04	17:00:00	14.62	7.88	NA	NA	76	NA

38505	Eel	2022-10-04	17:15:00	14.65	7.88	NA	NA	76	NA
38506	Eel	2022-10-04	17:30:00	14.65	7.87	NA	NA	76	NA
38507	Eel	2022-10-04	17:45:00	14.67	7.87	NA	NA	76	NA
38508	Eel	2022-10-04	18:00:00	14.67	7.87	NA	NA	76	NA
38509	Eel	2022-10-04	18:15:00	14.67	7.87	NA	NA	76	NA
38510	Eel	2022-10-04	18:30:00	14.67	7.87	NA	NA	76	NA
38511	Eel	2022-10-04	18:45:00	14.67	7.87	NA	NA	76	NA
38512	Eel	2022-10-04	19:00:00	14.67	7.87	NA	NA	76	NA
38513	Eel	2022-10-04	19:15:00	14.67	7.87	NA	NA	76	NA
38514	Eel	2022-10-04	19:30:00	14.70	7.87	NA	NA	76	NA
38515	Eel	2022-10-04	19:45:00	14.70	7.86	NA	NA	76	NA
38516	Eel	2022-10-04	20:00:00	14.70	7.86	NA	NA	76	NA
38517	Eel	2022-10-04	20:15:00	14.67	7.86	NA	NA	76	NA
38518	Eel	2022-10-04	20:30:00	14.67	7.86	NA	NA	76	NA
38519	Eel	2022-10-04	20:45:00	14.67	7.86	NA	NA	76	NA
38520	Eel	2022-10-04	21:00:00	14.70	7.86	NA	NA	76	NA
38521	Eel	2022-10-04	21:15:00	14.70	7.85	NA	NA	76	NA
38522	Eel	2022-10-04	21:30:00	14.70	7.85	NA	NA	76	NA
38523	Eel	2022-10-04	21:45:00	14.67	7.85	NA	NA	76	NA
38524	Eel	2022-10-04	22:00:00	14.67	7.86	NA	NA	76	NA
38525	Eel	2022-10-04	22:15:00	14.67	7.85	NA	NA	76	NA
38526	Eel	2022-10-04	22:30:00	14.65	7.85	NA	NA	76	NA
38527	Eel	2022-10-04	22:45:00	14.65	7.85	NA	NA	76	NA
38528	Eel	2022-10-04	23:00:00	14.65	7.85	NA	NA	76	NA
38529	Eel	2022-10-04	23:15:00	14.65	7.85	NA	NA	76	NA
38530	Eel	2022-10-04	23:30:00	14.62	7.85	NA	NA	76	NA
38531	Eel	2022-10-04	23:45:00	14.62	7.84	NA	NA	76	NA
38532	Eel	2022-10-05	00:00:00	14.62	7.83	NA	NA	76	NA
38533	Eel	2022-10-05	00:15:00	14.60	7.83	NA	NA	76	NA
38534	Eel	2022-10-05	00:30:00	14.58	7.82	NA	NA	76	NA
38535	Eel	2022-10-05	00:45:00	14.58	7.82	NA	NA	76	NA
38536	Eel	2022-10-05	01:00:00	14.55	7.81	NA	NA	76	NA
38537	Eel	2022-10-05	01:15:00	14.55	7.81	NA	NA	76	NA
38538	Eel	2022-10-05	01:30:00	14.53	7.80	NA	NA	76	NA
38539	Eel	2022-10-05	01:45:00	14.51	7.80	NA	NA	76	NA
38540	Eel	2022-10-05	02:00:00	14.51	7.80	NA	NA	76	NA
38541	Eel	2022-10-05	02:15:00	14.51	7.79	NA	NA	76	NA
38542	Eel	2022-10-05	02:30:00	14.51	7.80	NA	NA	76	NA
38543	Eel	2022-10-05	02:45:00	14.58	7.76	NA	NA	76	NA
38544	Eel	2022-10-05	03:00:00	14.58	7.79	NA	NA	76	NA
38545	Eel	2022-10-05	03:15:00	14.65	7.81	NA	NA	76	NA

38546	Eel	2022-10-05	03:30:00	14.70	7.82	NA	NA	76	NA
38547	Eel	2022-10-05	03:45:00	14.72	7.83	NA	NA	76	NA
38548	Eel	2022-10-05	04:00:00	14.74	7.83	NA	NA	76	NA
38549	Eel	2022-10-05	04:15:00	14.74	7.83	NA	NA	76	NA
38550	Eel	2022-10-05	04:30:00	14.74	7.83	NA	NA	76	NA
38551	Eel	2022-10-05	04:45:00	14.74	7.83	NA	NA	76	NA
38552	Eel	2022-10-05	05:00:00	14.74	7.83	NA	NA	76	NA
38553	Eel	2022-10-05	05:15:00	14.74	7.83	NA	NA	76	NA
38554	Eel	2022-10-05	05:30:00	14.77	7.83	NA	NA	76	NA
38555	Eel	2022-10-05	05:45:00	14.77	7.83	NA	NA	76	NA
38556	Eel	2022-10-05	06:00:00	14.77	7.83	NA	NA	76	NA
38557	Eel	2022-10-05	06:15:00	14.77	7.83	NA	NA	76	NA
38558	Eel	2022-10-05	06:30:00	14.79	7.83	NA	NA	76	NA
38559	Eel	2022-10-05	06:45:00	14.79	7.83	NA	NA	76	NA
38560	Eel	2022-10-05	07:00:00	14.79	7.83	NA	NA	76	NA
38561	Eel	2022-10-05	07:15:00	14.79	7.83	NA	NA	76	NA
38562	Eel	2022-10-05	07:30:00	14.79	7.83	NA	NA	76	NA
38563	Eel	2022-10-05	07:45:00	14.79	7.83	NA	NA	76	NA
38564	Eel	2022-10-05	08:00:00	14.79	7.83	NA	NA	76	NA
38565	Eel	2022-10-05	08:15:00	14.82	7.83	NA	NA	76	NA
38566	Eel	2022-10-05	08:30:00	14.82	7.83	NA	NA	76	NA
38567	Eel	2022-10-05	08:45:00	14.84	7.83	NA	NA	76	NA
38568	Eel	2022-10-05	09:00:00	14.84	7.83	NA	NA	76	NA
38569	Eel	2022-10-05	09:15:00	14.86	7.84	NA	NA	76	NA
38570	Eel	2022-10-05	09:30:00	14.86	7.82	NA	NA	76	NA
38571	Eel	2022-10-05	09:45:00	14.91	7.81	NA	NA	76	NA
38572	Eel	2022-10-05	10:00:00	14.96	7.82	NA	NA	76	NA
38573	Eel	2022-10-05	10:15:00	15.03	7.84	NA	NA	76	NA
38574	Eel	2022-10-05	10:30:00	15.10	7.85	NA	NA	76	NA
38575	Eel	2022-10-05	10:45:00	15.15	7.86	NA	NA	76	NA
38576	Eel	2022-10-05	11:00:00	15.20	7.86	NA	NA	76	NA
38577	Eel	2022-10-05	11:15:00	15.22	7.86	NA	NA	76	NA
38578	Eel	2022-10-05	11:30:00	15.22	7.85	NA	NA	76	NA
38579	Eel	2022-10-05	11:45:00	15.25	7.85	NA	NA	76	NA
38580	Eel	2022-10-05	12:00:00	15.22	7.85	NA	NA	76	NA
38581	Eel	2022-10-05	12:15:00	15.20	7.85	NA	NA	76	NA
38582	Eel	2022-10-05	12:30:00	15.17	7.84	NA	NA	76	NA
38583	Eel	2022-10-05	12:45:00	15.15	7.83	NA	NA	76	NA
38584	Eel	2022-10-05	13:00:00	15.17	7.83	NA	NA	76	NA
38585	Eel	2022-10-05	13:15:00	15.22	7.83	NA	NA	76	NA
38586	Eel	2022-10-05	13:30:00	15.20	7.83	NA	NA	76	NA

38587	Eel	2022-10-05	13:45:00	15.22	7.84	NA	NA	76	NA
38588	Eel	2022-10-05	14:00:00	15.27	7.84	NA	NA	76	NA
38589	Eel	2022-10-05	14:15:00	15.29	7.84	NA	NA	76	NA
38590	Eel	2022-10-05	14:30:00	15.39	7.86	NA	NA	76	NA
38591	Eel	2022-10-05	14:45:00	15.32	7.84	NA	NA	76	NA
38592	Eel	2022-10-05	15:00:00	15.34	7.88	NA	NA	76	NA
38593	Eel	2022-10-05	15:15:00	15.34	7.88	NA	NA	76	NA
38594	Eel	2022-10-05	15:30:00	15.34	7.88	NA	NA	76	NA
38595	Eel	2022-10-05	15:45:00	15.37	7.89	NA	NA	76	NA
38596	Eel	2022-10-05	16:00:00	15.37	7.89	NA	NA	76	NA
38597	Eel	2022-10-05	16:15:00	15.39	7.89	NA	NA	76	NA
38598	Eel	2022-10-05	16:30:00	15.37	7.89	NA	NA	76	NA
38599	Eel	2022-10-05	16:45:00	15.37	7.89	NA	NA	76	NA
38600	Eel	2022-10-05	17:00:00	15.37	7.89	NA	NA	76	NA
38601	Eel	2022-10-05	17:15:00	15.37	7.89	NA	NA	76	NA
38602	Eel	2022-10-05	17:30:00	15.37	7.88	NA	NA	76	NA
38603	Eel	2022-10-05	17:45:00	15.34	7.88	NA	NA	76	NA
38604	Eel	2022-10-05	18:00:00	15.34	7.88	NA	NA	76	NA
38605	Eel	2022-10-05	18:15:00	15.34	7.87	NA	NA	76	NA
38606	Eel	2022-10-05	18:30:00	15.34	7.87	NA	NA	76	NA
38607	Eel	2022-10-05	18:45:00	15.34	7.87	NA	NA	76	NA
38608	Eel	2022-10-05	19:00:00	15.34	7.88	NA	NA	76	NA
38609	Eel	2022-10-05	19:15:00	15.32	7.87	NA	NA	76	NA
38610	Eel	2022-10-05	19:30:00	15.32	7.87	NA	NA	76	NA
38611	Eel	2022-10-05	19:45:00	15.32	7.87	NA	NA	76	NA
38612	Eel	2022-10-05	20:00:00	15.32	7.87	NA	NA	76	NA
38613	Eel	2022-10-05	20:15:00	15.32	7.87	NA	NA	76	NA
38614	Eel	2022-10-05	20:30:00	15.29	7.87	NA	NA	76	NA
38615	Eel	2022-10-05	20:45:00	15.29	7.87	NA	NA	76	NA
38616	Eel	2022-10-05	21:00:00	15.32	7.87	NA	NA	76	NA
38617	Eel	2022-10-05	21:15:00	15.32	7.87	NA	NA	76	NA
38618	Eel	2022-10-05	21:30:00	15.32	7.87	NA	NA	76	NA
38619	Eel	2022-10-05	21:45:00	15.29	7.87	NA	NA	76	NA
38620	Eel	2022-10-05	22:00:00	15.29	7.86	NA	NA	76	NA
38621	Eel	2022-10-05	22:15:00	15.27	7.86	NA	NA	76	NA
38622	Eel	2022-10-05	22:30:00	15.27	7.86	NA	NA	76	NA
38623	Eel	2022-10-05	22:45:00	15.27	7.86	NA	NA	76	NA
38624	Eel	2022-10-05	23:00:00	15.27	7.86	NA	NA	76	NA
38625	Eel	2022-10-05	23:15:00	15.27	7.86	NA	NA	76	NA
38626	Eel	2022-10-05	23:30:00	15.27	7.85	NA	NA	76	NA
38627	Eel	2022-10-05	23:45:00	15.27	7.85	NA	NA	76	NA

38628	Eel	2022-10-06	00:00:00	15.27	7.85	NA	NA	76	NA
38629	Eel	2022-10-06	00:15:00	15.27	7.85	NA	NA	76	NA
38630	Eel	2022-10-06	00:30:00	15.27	7.85	NA	NA	76	NA
38631	Eel	2022-10-06	00:45:00	15.27	7.84	NA	NA	76	NA
38632	Eel	2022-10-06	01:00:00	15.27	7.84	NA	NA	76	NA
38633	Eel	2022-10-06	01:15:00	15.27	7.84	NA	NA	76	NA
38634	Eel	2022-10-06	01:30:00	15.27	7.84	NA	NA	76	NA
38635	Eel	2022-10-06	01:45:00	15.27	7.84	NA	NA	76	NA
38636	Eel	2022-10-06	02:00:00	15.25	7.83	NA	NA	76	NA
38637	Eel	2022-10-06	02:15:00	15.25	7.83	NA	NA	76	NA
38638	Eel	2022-10-06	02:30:00	15.25	7.82	NA	NA	76	NA
38639	Eel	2022-10-06	02:45:00	15.22	7.81	NA	NA	76	NA
38640	Eel	2022-10-06	03:00:00	15.20	7.80	NA	NA	76	NA
38641	Eel	2022-10-06	03:15:00	15.20	7.80	NA	NA	76	NA
38642	Eel	2022-10-06	03:30:00	15.20	7.80	NA	NA	76	NA
38643	Eel	2022-10-06	03:45:00	15.22	7.80	NA	NA	76	NA
38644	Eel	2022-10-06	04:00:00	15.25	7.81	NA	NA	76	NA
38645	Eel	2022-10-06	04:15:00	15.32	7.83	NA	NA	76	NA
38646	Eel	2022-10-06	04:30:00	15.32	7.84	NA	NA	76	NA
38647	Eel	2022-10-06	04:45:00	15.34	7.84	NA	NA	76	NA
38648	Eel	2022-10-06	05:00:00	15.32	7.83	NA	NA	76	NA
38649	Eel	2022-10-06	05:15:00	15.32	7.83	NA	NA	76	NA
38650	Eel	2022-10-06	05:30:00	15.32	7.83	NA	NA	76	NA
38651	Eel	2022-10-06	05:45:00	15.32	7.83	NA	NA	76	NA
38652	Eel	2022-10-06	06:00:00	15.32	7.84	NA	NA	76	NA
38653	Eel	2022-10-06	06:15:00	15.34	7.83	NA	NA	76	NA
38654	Eel	2022-10-06	06:30:00	15.32	7.83	NA	NA	76	NA
38655	Eel	2022-10-06	06:45:00	15.32	7.83	NA	NA	76	NA
38656	Eel	2022-10-06	07:00:00	15.32	7.83	NA	NA	76	NA
38657	Eel	2022-10-06	07:15:00	15.32	7.83	NA	NA	76	NA
38658	Eel	2022-10-06	07:30:00	15.32	7.83	NA	NA	76	NA
38659	Eel	2022-10-06	07:45:00	15.32	7.83	NA	NA	76	NA
38660	Eel	2022-10-06	08:00:00	15.34	7.83	NA	NA	76	NA
38661	Eel	2022-10-06	08:15:00	15.34	7.83	NA	NA	76	NA
38662	Eel	2022-10-06	08:30:00	15.37	7.83	NA	NA	76	NA
38663	Eel	2022-10-06	08:45:00	15.37	7.83	NA	NA	76	NA
38664	Eel	2022-10-06	09:00:00	15.39	7.83	NA	NA	76	NA
38665	Eel	2022-10-06	09:15:00	15.41	7.84	NA	NA	76	NA
38666	Eel	2022-10-06	09:30:00	15.44	7.85	NA	NA	76	NA
38667	Eel	2022-10-06	09:45:00	15.46	7.85	NA	NA	76	NA
38668	Eel	2022-10-06	10:00:00	15.49	7.85	NA	NA	76	NA

38669	Eel	2022-10-06	10:15:00	15.51	7.86	NA	NA	76	NA
38670	Eel	2022-10-06	10:30:00	15.53	7.86	NA	NA	76	NA
38671	Eel	2022-10-06	10:45:00	15.56	7.86	NA	NA	76	NA
38672	Eel	2022-10-06	11:00:00	15.60	7.87	NA	NA	76	NA
38673	Eel	2022-10-06	11:15:00	15.60	7.85	NA	NA	76	NA
38674	Eel	2022-10-06	11:30:00	15.70	7.85	NA	NA	76	NA
38675	Eel	2022-10-06	11:45:00	15.77	7.86	NA	NA	76	NA
38676	Eel	2022-10-06	12:00:00	15.82	7.86	NA	NA	76	NA
38677	Eel	2022-10-06	12:15:00	15.94	7.86	NA	NA	76	NA
38678	Eel	2022-10-06	12:30:00	15.99	7.86	NA	NA	76	NA
38679	Eel	2022-10-06	12:45:00	16.08	7.86	NA	NA	76	NA
38680	Eel	2022-10-06	13:00:00	16.13	7.87	NA	NA	76	NA
38681	Eel	2022-10-06	13:15:00	16.15	7.87	NA	NA	76	NA
38682	Eel	2022-10-06	13:30:00	16.20	7.86	NA	NA	76	NA
38683	Eel	2022-10-06	13:45:00	16.25	7.85	NA	NA	76	NA
38684	Eel	2022-10-06	14:00:00	16.32	7.86	NA	NA	76	NA
38685	Eel	2022-10-06	14:15:00	16.34	7.85	NA	NA	76	NA
38686	Eel	2022-10-06	14:30:00	16.37	7.85	NA	NA	76	NA
38687	Eel	2022-10-06	14:45:00	16.39	7.85	NA	NA	76	NA
38688	Eel	2022-10-06	15:00:00	16.46	7.77	NA	NA	76	NA
38689	Eel	2022-10-06	15:15:00	16.56	7.82	NA	NA	76	NA
38690	Eel	2022-10-06	15:30:00	16.82	7.84	NA	NA	76	NA
38691	Eel	2022-10-06	15:45:00	16.94	7.85	NA	NA	76	NA
38692	Eel	2022-10-06	16:00:00	16.72	7.88	NA	NA	76	NA
38693	Eel	2022-10-06	16:15:00	16.49	7.91	NA	NA	76	NA
38694	Eel	2022-10-06	16:30:00	16.44	7.91	NA	NA	76	NA
38695	Eel	2022-10-06	16:45:00	16.39	7.91	NA	NA	76	NA
38696	Eel	2022-10-06	17:00:00	16.37	7.91	NA	NA	76	NA
38697	Eel	2022-10-06	17:15:00	16.34	7.91	NA	NA	76	NA
38698	Eel	2022-10-06	17:30:00	16.34	7.91	NA	NA	76	NA
38699	Eel	2022-10-06	17:45:00	16.34	7.91	NA	NA	76	NA
38700	Eel	2022-10-06	18:00:00	16.34	7.91	NA	NA	76	NA
38701	Eel	2022-10-06	18:15:00	16.32	7.90	NA	NA	76	NA
38702	Eel	2022-10-06	18:30:00	16.25	7.90	NA	NA	76	NA
38703	Eel	2022-10-06	18:45:00	16.22	7.90	NA	NA	76	NA
38704	Eel	2022-10-06	19:00:00	16.25	7.90	NA	NA	76	NA
38705	Eel	2022-10-06	19:15:00	16.22	7.90	NA	NA	76	NA
38706	Eel	2022-10-06	19:30:00	16.22	7.90	NA	NA	76	NA
38707	Eel	2022-10-06	19:45:00	16.20	7.89	NA	NA	76	NA
38708	Eel	2022-10-06	20:00:00	16.20	7.89	NA	NA	76	NA
38709	Eel	2022-10-06	20:15:00	16.20	7.89	NA	NA	76	NA

38710	Eel	2022-10-06	20:30:00	16.18	7.89	NA	NA	76	NA
38711	Eel	2022-10-06	20:45:00	16.15	7.89	NA	NA	76	NA
38712	Eel	2022-10-06	21:00:00	16.11	7.89	NA	NA	76	NA
38713	Eel	2022-10-06	21:15:00	16.11	7.88	NA	NA	76	NA
38714	Eel	2022-10-06	21:30:00	16.11	7.88	NA	NA	76	NA
38715	Eel	2022-10-06	21:45:00	16.11	7.88	NA	NA	76	NA
38716	Eel	2022-10-06	22:00:00	16.11	7.88	NA	NA	76	NA
38717	Eel	2022-10-06	22:15:00	16.13	7.87	NA	NA	76	NA
38718	Eel	2022-10-06	22:30:00	16.11	7.87	NA	NA	76	NA
38719	Eel	2022-10-06	22:45:00	16.11	7.86	NA	NA	76	NA
38720	Eel	2022-10-06	23:00:00	16.11	7.87	NA	NA	76	NA
38721	Eel	2022-10-06	23:15:00	16.11	7.88	NA	NA	76	NA
38722	Eel	2022-10-06	23:30:00	16.06	7.88	NA	NA	76	NA
38723	Eel	2022-10-06	23:45:00	16.08	7.87	NA	NA	76	NA
38724	Eel	2022-10-07	00:00:00	16.06	7.87	NA	NA	76	NA
38725	Eel	2022-10-07	00:15:00	16.03	7.87	NA	NA	76	NA
38726	Eel	2022-10-07	00:30:00	16.11	7.86	NA	NA	76	NA
38727	Eel	2022-10-07	00:45:00	16.11	7.86	NA	NA	76	NA
38728	Eel	2022-10-07	01:00:00	16.11	7.86	NA	NA	76	NA
38729	Eel	2022-10-07	01:15:00	16.15	7.86	NA	NA	76	NA
38730	Eel	2022-10-07	01:30:00	16.18	7.86	NA	NA	76	NA
38731	Eel	2022-10-07	01:45:00	16.18	7.86	NA	NA	76	NA
38732	Eel	2022-10-07	02:00:00	16.15	7.86	NA	NA	76	NA
38733	Eel	2022-10-07	02:15:00	16.15	7.85	NA	NA	76	NA
38734	Eel	2022-10-07	02:30:00	16.15	7.85	NA	NA	76	NA
38735	Eel	2022-10-07	02:45:00	16.18	7.85	NA	NA	76	NA
38736	Eel	2022-10-07	03:00:00	16.18	7.84	NA	NA	76	NA
38737	Eel	2022-10-07	03:15:00	16.18	7.84	NA	NA	76	NA
38738	Eel	2022-10-07	03:30:00	16.18	7.83	NA	NA	76	NA
38739	Eel	2022-10-07	03:45:00	16.18	7.83	NA	NA	76	NA
38740	Eel	2022-10-07	04:00:00	16.15	7.82	NA	NA	76	NA
38741	Eel	2022-10-07	04:15:00	16.13	7.81	NA	NA	76	NA
38742	Eel	2022-10-07	04:30:00	16.03	7.80	NA	NA	76	NA
38743	Eel	2022-10-07	04:45:00	16.11	7.82	NA	NA	76	NA
38744	Eel	2022-10-07	05:00:00	16.06	7.83	NA	NA	76	NA
38745	Eel	2022-10-07	05:15:00	16.06	7.84	NA	NA	76	NA
38746	Eel	2022-10-07	05:30:00	16.06	7.84	NA	NA	76	NA
38747	Eel	2022-10-07	05:45:00	16.06	7.84	NA	NA	76	NA
38748	Eel	2022-10-07	06:00:00	16.03	7.84	NA	NA	76	NA
38749	Eel	2022-10-07	06:15:00	16.03	7.84	NA	NA	76	NA
38750	Eel	2022-10-07	06:30:00	16.01	7.84	NA	NA	76	NA

38751	Eel	2022-10-07	06:45:00	16.01	7.84	NA	NA	76	NA
38752	Eel	2022-10-07	07:00:00	16.01	7.85	NA	NA	76	NA
38753	Eel	2022-10-07	07:15:00	15.99	7.85	NA	NA	76	NA
38754	Eel	2022-10-07	07:30:00	15.99	7.84	NA	NA	76	NA
38755	Eel	2022-10-07	07:45:00	15.99	7.84	NA	NA	76	NA
38756	Eel	2022-10-07	08:00:00	15.96	7.84	NA	NA	76	NA
38757	Eel	2022-10-07	08:15:00	15.99	7.84	NA	NA	76	NA
38758	Eel	2022-10-07	08:30:00	16.01	7.84	NA	NA	76	NA
38759	Eel	2022-10-07	08:45:00	16.03	7.85	NA	NA	76	NA
38760	Eel	2022-10-07	09:00:00	16.06	7.85	NA	NA	76	NA
38761	Eel	2022-10-07	09:15:00	16.08	7.86	NA	NA	76	NA
38762	Eel	2022-10-07	09:30:00	16.13	7.86	NA	NA	76	NA
38763	Eel	2022-10-07	09:45:00	16.18	7.87	NA	NA	76	NA
38764	Eel	2022-10-07	10:00:00	16.22	7.88	NA	NA	76	NA
38765	Eel	2022-10-07	10:15:00	16.27	7.88	NA	NA	76	NA
38766	Eel	2022-10-07	10:30:00	16.32	7.89	NA	NA	76	NA
38767	Eel	2022-10-07	10:45:00	16.34	7.89	NA	NA	76	NA
38768	Eel	2022-10-07	11:00:00	16.39	7.89	NA	NA	76	NA
38769	Eel	2022-10-07	11:15:00	16.44	7.88	NA	NA	76	NA
38770	Eel	2022-10-07	11:30:00	16.53	7.88	NA	NA	76	NA
38771	Eel	2022-10-07	11:45:00	16.75	7.88	NA	NA	76	NA
38772	Eel	2022-10-07	12:00:00	16.84	7.89	NA	NA	76	NA
38773	Eel	2022-10-07	12:15:00	16.94	7.90	NA	NA	76	NA
38774	Eel	2022-10-07	12:30:00	16.96	7.90	NA	NA	76	NA
38775	Eel	2022-10-07	12:45:00	17.06	7.93	NA	NA	76	NA
38776	Eel	2022-10-07	13:00:00	17.08	7.92	NA	NA	76	NA
38777	Eel	2022-10-07	13:15:00	17.06	7.91	NA	NA	76	NA
38778	Eel	2022-10-07	13:30:00	17.06	7.90	NA	NA	76	NA
38779	Eel	2022-10-07	13:45:00	17.08	7.90	NA	NA	76	NA
38780	Eel	2022-10-07	14:00:00	17.15	7.91	NA	NA	76	NA
38781	Eel	2022-10-07	14:15:00	17.20	7.91	NA	NA	76	NA
38782	Eel	2022-10-07	14:30:00	17.25	7.91	NA	NA	76	NA
38783	Eel	2022-10-07	14:45:00	17.22	7.90	NA	NA	76	NA
38784	Eel	2022-10-07	15:00:00	17.27	7.91	NA	NA	76	NA
38785	Eel	2022-10-07	15:15:00	17.34	7.90	NA	NA	76	NA
38786	Eel	2022-10-07	15:30:00	17.39	7.90	NA	NA	76	NA
38787	Eel	2022-10-07	15:45:00	17.37	7.89	NA	NA	76	NA
38788	Eel	2022-10-07	16:00:00	17.37	7.89	NA	NA	76	NA
38789	Eel	2022-10-07	16:15:00	17.39	7.89	NA	NA	76	NA
38790	Eel	2022-10-07	16:30:00	17.44	7.88	NA	NA	76	NA
38791	Eel	2022-10-07	16:45:00	17.49	7.90	NA	NA	76	NA

38792	Eel	2022-10-07	17:00:00	17.65	7.91	NA	NA	76	NA
38793	Eel	2022-10-07	17:15:00	17.39	7.93	NA	NA	76	NA
38794	Eel	2022-10-07	17:30:00	17.37	7.94	NA	NA	76	NA
38795	Eel	2022-10-07	17:45:00	17.30	7.94	NA	NA	76	NA
38796	Eel	2022-10-07	18:00:00	17.22	7.93	NA	NA	76	NA
38797	Eel	2022-10-07	18:15:00	17.20	7.93	NA	NA	76	NA
38798	Eel	2022-10-07	18:30:00	17.15	7.93	NA	NA	76	NA
38799	Eel	2022-10-07	18:45:00	17.08	7.92	NA	NA	76	NA
38800	Eel	2022-10-07	19:00:00	17.06	7.92	NA	NA	76	NA
38801	Eel	2022-10-07	19:15:00	17.08	7.91	NA	NA	76	NA
38802	Eel	2022-10-07	19:30:00	17.06	7.91	NA	NA	76	NA
38803	Eel	2022-10-07	19:45:00	17.03	7.91	NA	NA	76	NA
38804	Eel	2022-10-07	20:00:00	16.96	7.90	NA	NA	76	NA
38805	Eel	2022-10-07	20:15:00	16.94	7.90	NA	NA	76	NA
38806	Eel	2022-10-07	20:30:00	16.92	7.90	NA	NA	76	NA
38807	Eel	2022-10-07	20:45:00	16.92	7.91	NA	NA	76	NA
38808	Eel	2022-10-07	21:00:00	16.92	7.90	NA	NA	76	NA
38809	Eel	2022-10-07	21:15:00	16.92	7.90	NA	NA	76	NA
38810	Eel	2022-10-07	21:30:00	16.89	7.90	NA	NA	76	NA
38811	Eel	2022-10-07	21:45:00	16.89	7.89	NA	NA	76	NA
38812	Eel	2022-10-07	22:00:00	16.92	7.88	NA	NA	76	NA
38813	Eel	2022-10-07	22:15:00	16.89	7.89	NA	NA	76	NA
38814	Eel	2022-10-07	22:30:00	16.94	7.89	NA	NA	76	NA
38815	Eel	2022-10-07	22:45:00	16.87	7.89	NA	NA	76	NA
38816	Eel	2022-10-07	23:00:00	16.80	7.88	NA	NA	76	NA
38817	Eel	2022-10-07	23:15:00	16.80	7.88	NA	NA	76	NA
38818	Eel	2022-10-07	23:30:00	16.77	7.88	NA	NA	76	NA
38819	Eel	2022-10-07	23:45:00	16.77	7.87	NA	NA	76	NA
38820	Eel	2022-10-08	00:00:00	16.77	7.84	NA	NA	76	NA
38821	Eel	2022-10-08	00:15:00	16.77	7.87	NA	NA	76	NA
38822	Eel	2022-10-08	00:30:00	16.72	7.87	NA	NA	76	NA
38823	Eel	2022-10-08	00:45:00	16.75	7.88	NA	NA	76	NA
38824	Eel	2022-10-08	01:00:00	16.75	7.87	NA	NA	76	NA
38825	Eel	2022-10-08	01:15:00	16.77	7.87	NA	NA	76	NA
38826	Eel	2022-10-08	01:30:00	16.75	7.87	NA	NA	76	NA
38827	Eel	2022-10-08	01:45:00	16.72	7.87	NA	NA	76	NA
38828	Eel	2022-10-08	02:00:00	16.72	7.87	NA	NA	76	NA
38829	Eel	2022-10-08	02:15:00	16.72	7.87	NA	NA	76	NA
38830	Eel	2022-10-08	02:30:00	16.70	7.87	NA	NA	76	NA
38831	Eel	2022-10-08	02:45:00	16.70	7.87	NA	NA	76	NA
38832	Eel	2022-10-08	03:00:00	16.70	7.87	NA	NA	76	NA

38833	Eel	2022-10-08	03:15:00	16.72	7.86	NA	NA	76	NA
38834	Eel	2022-10-08	03:30:00	16.80	7.86	NA	NA	76	NA
38835	Eel	2022-10-08	03:45:00	16.82	7.86	NA	NA	76	NA
38836	Eel	2022-10-08	04:00:00	16.82	7.85	NA	NA	76	NA
38837	Eel	2022-10-08	04:15:00	16.82	7.85	NA	NA	76	NA
38838	Eel	2022-10-08	04:30:00	16.82	7.84	NA	NA	76	NA
38839	Eel	2022-10-08	04:45:00	16.84	7.84	NA	NA	76	NA
38840	Eel	2022-10-08	05:00:00	16.75	7.82	NA	NA	76	NA
38841	Eel	2022-10-08	05:15:00	16.68	7.83	NA	NA	76	NA
38842	Eel	2022-10-08	05:30:00	16.63	7.83	NA	NA	76	NA
38843	Eel	2022-10-08	05:45:00	16.51	7.84	NA	NA	76	NA
38844	Eel	2022-10-08	06:00:00	16.44	7.85	NA	NA	76	NA
38845	Eel	2022-10-08	06:15:00	16.42	7.86	NA	NA	76	NA
38846	Eel	2022-10-08	06:30:00	16.39	7.86	NA	NA	76	NA
38847	Eel	2022-10-08	06:45:00	16.39	7.86	NA	NA	76	NA
38848	Eel	2022-10-08	07:00:00	16.37	7.86	NA	NA	76	NA
38849	Eel	2022-10-08	07:15:00	16.34	7.86	NA	NA	76	NA
38850	Eel	2022-10-08	07:30:00	16.34	7.86	NA	NA	76	NA
38851	Eel	2022-10-08	07:45:00	16.34	7.87	NA	NA	76	NA
38852	Eel	2022-10-08	08:00:00	16.32	7.87	NA	NA	76	NA
38853	Eel	2022-10-08	08:15:00	16.30	7.87	NA	NA	76	NA
38854	Eel	2022-10-08	08:30:00	16.27	7.87	NA	NA	76	NA
38855	Eel	2022-10-08	08:45:00	16.25	7.86	NA	NA	76	NA
38856	Eel	2022-10-08	09:00:00	16.22	7.86	NA	NA	76	NA
38857	Eel	2022-10-08	09:15:00	16.22	7.86	NA	NA	76	NA
38858	Eel	2022-10-08	09:30:00	16.22	7.86	NA	NA	76	NA
38859	Eel	2022-10-08	09:45:00	16.22	7.85	NA	NA	76	NA
38860	Eel	2022-10-08	10:00:00	16.20	7.85	NA	NA	76	NA
38861	Eel	2022-10-08	10:15:00	16.25	7.83	NA	NA	76	NA
38862	Eel	2022-10-08	10:30:00	16.22	7.85	NA	NA	76	NA
38863	Eel	2022-10-08	10:45:00	16.25	7.86	NA	NA	76	NA
38864	Eel	2022-10-08	11:00:00	16.27	7.87	NA	NA	76	NA
38865	Eel	2022-10-08	11:15:00	16.27	7.89	NA	NA	76	NA
38866	Eel	2022-10-08	11:30:00	16.34	7.90	NA	NA	76	NA
38867	Eel	2022-10-08	11:45:00	16.42	7.90	NA	NA	76	NA
38868	Eel	2022-10-08	12:00:00	16.46	7.90	NA	NA	76	NA
38869	Eel	2022-10-08	12:15:00	16.51	7.90	NA	NA	76	NA
38870	Eel	2022-10-08	12:30:00	16.53	7.88	NA	NA	76	NA
38871	Eel	2022-10-08	12:45:00	16.46	7.87	NA	NA	76	NA
38872	Eel	2022-10-08	13:00:00	16.58	7.90	NA	NA	76	NA
38873	Eel	2022-10-08	13:15:00	16.65	7.92	NA	NA	76	NA

38874	Eel	2022-10-08	13:30:00	16.70	7.91	NA	NA	76	NA
38875	Eel	2022-10-08	13:45:00	16.72	7.91	NA	NA	76	NA
38876	Eel	2022-10-08	14:00:00	16.75	7.91	NA	NA	76	NA
38877	Eel	2022-10-08	14:15:00	16.75	7.90	NA	NA	76	NA
38878	Eel	2022-10-08	14:30:00	16.75	7.89	NA	NA	76	NA
38879	Eel	2022-10-08	14:45:00	16.80	7.89	NA	NA	76	NA
38880	Eel	2022-10-08	15:00:00	16.89	7.89	NA	NA	76	NA
38881	Eel	2022-10-08	15:15:00	16.92	7.90	NA	NA	76	NA
38882	Eel	2022-10-08	15:30:00	16.89	7.89	NA	NA	76	NA
38883	Eel	2022-10-08	15:45:00	16.92	7.89	NA	NA	76	NA
38884	Eel	2022-10-08	16:00:00	16.94	7.90	NA	NA	76	NA
38885	Eel	2022-10-08	16:15:00	16.94	7.90	NA	NA	76	NA
38886	Eel	2022-10-08	16:30:00	16.92	7.89	NA	NA	76	NA
38887	Eel	2022-10-08	16:45:00	16.92	7.89	NA	NA	76	NA
38888	Eel	2022-10-08	17:00:00	16.89	7.89	NA	NA	76	NA
38889	Eel	2022-10-08	17:15:00	16.84	7.88	NA	NA	76	NA
38890	Eel	2022-10-08	17:30:00	16.82	7.88	NA	NA	76	NA
38891	Eel	2022-10-08	17:45:00	16.84	7.89	NA	NA	76	NA
38892	Eel	2022-10-08	18:00:00	16.92	7.90	NA	NA	76	NA
38893	Eel	2022-10-08	18:15:00	16.72	7.92	NA	NA	76	NA
38894	Eel	2022-10-08	18:30:00	16.65	7.92	NA	NA	76	NA
38895	Eel	2022-10-08	18:45:00	16.61	7.92	NA	NA	76	NA
38896	Eel	2022-10-08	19:00:00	16.58	7.92	NA	NA	76	NA
38897	Eel	2022-10-08	19:15:00	16.58	7.92	NA	NA	76	NA
38898	Eel	2022-10-08	19:30:00	16.56	7.92	NA	NA	76	NA
38899	Eel	2022-10-08	19:45:00	16.53	7.92	NA	NA	76	NA
38900	Eel	2022-10-08	20:00:00	16.51	7.92	NA	NA	76	NA
38901	Eel	2022-10-08	20:15:00	16.49	7.92	NA	NA	76	NA
38902	Eel	2022-10-08	20:30:00	16.44	7.91	NA	NA	76	NA
38903	Eel	2022-10-08	20:45:00	16.42	7.91	NA	NA	76	NA
38904	Eel	2022-10-08	21:00:00	16.37	7.91	NA	NA	76	NA
38905	Eel	2022-10-08	21:15:00	16.34	7.91	NA	NA	76	NA
38906	Eel	2022-10-08	21:30:00	16.34	7.91	NA	NA	76	NA
38907	Eel	2022-10-08	21:45:00	16.32	7.91	NA	NA	76	NA
38908	Eel	2022-10-08	22:00:00	16.32	7.91	NA	NA	76	NA
38909	Eel	2022-10-08	22:15:00	16.27	7.89	NA	NA	76	NA
38910	Eel	2022-10-08	22:30:00	16.22	7.84	NA	NA	76	NA
38911	Eel	2022-10-08	22:45:00	16.15	7.83	NA	NA	76	NA
38912	Eel	2022-10-08	23:00:00	16.08	7.83	NA	NA	76	NA
38913	Eel	2022-10-08	23:15:00	16.03	7.89	NA	NA	76	NA
38914	Eel	2022-10-08	23:30:00	16.06	7.89	NA	NA	76	NA

38915	Eel	2022-10-08	23:45:00	16.08	7.90	NA	NA	76	NA
38916	Eel	2022-10-09	00:00:00	15.99	7.89	NA	NA	76	NA
38917	Eel	2022-10-09	00:15:00	15.99	7.89	NA	NA	76	NA
38918	Eel	2022-10-09	00:30:00	15.94	7.88	NA	NA	76	NA
38919	Eel	2022-10-09	00:45:00	15.91	7.88	NA	NA	76	NA
38920	Eel	2022-10-09	01:00:00	15.84	7.87	NA	NA	76	NA
38921	Eel	2022-10-09	01:15:00	15.80	7.88	NA	NA	76	NA
38922	Eel	2022-10-09	01:30:00	15.80	7.89	NA	NA	76	NA
38923	Eel	2022-10-09	01:45:00	15.75	7.88	NA	NA	76	NA
38924	Eel	2022-10-09	02:00:00	15.70	7.87	NA	NA	76	NA
38925	Eel	2022-10-09	02:15:00	15.63	7.87	NA	NA	76	NA
38926	Eel	2022-10-09	02:30:00	15.65	7.87	NA	NA	76	NA
38927	Eel	2022-10-09	02:45:00	15.68	7.87	NA	NA	76	NA
38928	Eel	2022-10-09	03:00:00	15.65	7.87	NA	NA	76	NA
38929	Eel	2022-10-09	03:15:00	15.58	7.87	NA	NA	76	NA
38930	Eel	2022-10-09	03:30:00	15.51	7.87	NA	NA	76	NA
38931	Eel	2022-10-09	03:45:00	15.60	7.87	NA	NA	76	NA
38932	Eel	2022-10-09	04:00:00	15.60	7.86	NA	NA	76	NA
38933	Eel	2022-10-09	04:15:00	15.75	7.86	NA	NA	76	NA
38934	Eel	2022-10-09	04:30:00	15.82	7.86	NA	NA	76	NA
38935	Eel	2022-10-09	04:45:00	15.84	7.85	NA	NA	76	NA
38936	Eel	2022-10-09	05:00:00	15.87	7.85	NA	NA	76	NA
38937	Eel	2022-10-09	05:15:00	15.84	7.83	NA	NA	76	NA
38938	Eel	2022-10-09	05:30:00	15.77	7.83	NA	NA	76	NA
38939	Eel	2022-10-09	05:45:00	15.60	7.81	NA	NA	76	NA
38940	Eel	2022-10-09	06:00:00	15.39	7.83	NA	NA	76	NA
38941	Eel	2022-10-09	06:15:00	15.41	7.84	NA	NA	76	NA
38942	Eel	2022-10-09	06:30:00	15.49	7.86	NA	NA	76	NA
38943	Eel	2022-10-09	06:45:00	15.51	7.87	NA	NA	76	NA
38944	Eel	2022-10-09	07:00:00	15.51	7.87	NA	NA	76	NA
38945	Eel	2022-10-09	07:15:00	15.51	7.87	NA	NA	76	NA
38946	Eel	2022-10-09	07:30:00	15.53	7.87	NA	NA	76	NA
38947	Eel	2022-10-09	07:45:00	15.56	7.88	NA	NA	76	NA
38948	Eel	2022-10-09	08:00:00	15.53	7.88	NA	NA	76	NA
38949	Eel	2022-10-09	08:15:00	15.53	7.89	NA	NA	76	NA
38950	Eel	2022-10-09	08:30:00	15.51	7.89	NA	NA	76	NA
38951	Eel	2022-10-09	08:45:00	15.51	7.89	NA	NA	76	NA
38952	Eel	2022-10-09	09:00:00	15.53	7.90	NA	NA	76	NA
38953	Eel	2022-10-09	09:15:00	15.56	7.90	NA	NA	76	NA
38954	Eel	2022-10-09	09:30:00	15.58	7.90	NA	NA	76	NA
38955	Eel	2022-10-09	09:45:00	15.60	7.90	NA	NA	76	NA

38956	Eel	2022-10-09	10:00:00	15.60	7.90	NA	NA	76	NA
38957	Eel	2022-10-09	10:15:00	15.63	7.90	NA	NA	76	NA
38958	Eel	2022-10-09	10:30:00	15.65	7.90	NA	NA	76	NA
38959	Eel	2022-10-09	10:45:00	15.70	7.89	NA	NA	76	NA
38960	Eel	2022-10-09	11:00:00	15.72	7.89	NA	NA	76	NA
38961	Eel	2022-10-09	11:15:00	15.82	7.90	NA	NA	76	NA
38962	Eel	2022-10-09	11:30:00	15.84	7.90	NA	NA	76	NA
38963	Eel	2022-10-09	11:45:00	15.82	7.92	NA	NA	76	NA
38964	Eel	2022-10-09	12:00:00	15.87	7.95	NA	NA	76	NA
38965	Eel	2022-10-09	12:15:00	15.87	7.94	NA	NA	76	NA
38966	Eel	2022-10-09	12:30:00	15.89	7.94	NA	NA	76	NA
38967	Eel	2022-10-09	12:45:00	15.91	7.94	NA	NA	76	NA
38968	Eel	2022-10-09	13:00:00	15.96	7.94	NA	NA	76	NA
38969	Eel	2022-10-09	13:15:00	16.08	7.92	NA	NA	76	NA
38970	Eel	2022-10-09	13:30:00	16.13	7.92	NA	NA	76	NA
38971	Eel	2022-10-09	13:45:00	16.22	7.93	NA	NA	76	NA
38972	Eel	2022-10-09	14:00:00	16.20	7.95	NA	NA	76	NA
38973	Eel	2022-10-09	14:15:00	16.25	7.95	NA	NA	76	NA
38974	Eel	2022-10-09	14:30:00	16.27	7.97	NA	NA	76	NA
38975	Eel	2022-10-09	14:45:00	16.27	7.96	NA	NA	76	NA
38976	Eel	2022-10-09	15:00:00	16.27	7.96	NA	NA	76	NA
38977	Eel	2022-10-09	15:15:00	16.20	7.95	NA	NA	76	NA
38978	Eel	2022-10-09	15:30:00	16.18	7.95	NA	NA	76	NA
38979	Eel	2022-10-09	15:45:00	16.18	7.94	NA	NA	76	NA
38980	Eel	2022-10-09	16:00:00	16.20	7.94	NA	NA	76	NA
38981	Eel	2022-10-09	16:15:00	16.15	7.94	NA	NA	76	NA
38982	Eel	2022-10-09	16:30:00	16.15	7.94	NA	NA	76	NA
38983	Eel	2022-10-09	16:45:00	16.11	7.93	NA	NA	76	NA
38984	Eel	2022-10-09	17:00:00	16.11	7.93	NA	NA	76	NA
38985	Eel	2022-10-09	17:15:00	16.06	7.92	NA	NA	76	NA
38986	Eel	2022-10-09	17:30:00	15.91	7.92	NA	NA	76	NA
38987	Eel	2022-10-09	17:45:00	15.15	7.93	NA	NA	76	NA
38988	Eel	2022-10-09	18:00:00	14.41	7.92	NA	NA	76	NA
38989	Eel	2022-10-09	18:15:00	14.31	7.94	NA	NA	76	NA
38990	Eel	2022-10-09	18:30:00	15.37	7.94	NA	NA	76	NA
38991	Eel	2022-10-09	18:45:00	15.77	7.94	NA	NA	76	NA
38992	Eel	2022-10-09	19:00:00	15.94	7.95	NA	NA	76	NA
38993	Eel	2022-10-09	19:15:00	15.87	7.99	NA	NA	76	NA
38994	Eel	2022-10-09	19:30:00	15.84	7.98	NA	NA	76	NA
38995	Eel	2022-10-09	19:45:00	15.82	7.96	NA	NA	76	NA
38996	Eel	2022-10-09	20:00:00	15.80	7.95	NA	NA	76	NA

38997	Eel	2022-10-09	20:15:00	15.82	7.94	NA	NA	76	NA
38998	Eel	2022-10-09	20:30:00	15.80	7.94	NA	NA	76	NA
38999	Eel	2022-10-09	20:45:00	15.80	7.94	NA	NA	76	NA
39000	Eel	2022-10-09	21:00:00	15.77	7.93	NA	NA	76	NA
39001	Eel	2022-10-09	21:15:00	15.77	7.95	NA	NA	76	NA
39002	Eel	2022-10-09	21:30:00	15.75	7.95	NA	NA	76	NA
39003	Eel	2022-10-09	21:45:00	15.72	7.95	NA	NA	76	NA
39004	Eel	2022-10-09	22:00:00	15.68	7.94	NA	NA	76	NA
39005	Eel	2022-10-09	22:15:00	15.65	7.94	NA	NA	76	NA
39006	Eel	2022-10-09	22:30:00	15.63	7.93	NA	NA	76	NA
39007	Eel	2022-10-09	22:45:00	15.63	7.93	NA	NA	76	NA
39008	Eel	2022-10-09	23:00:00	15.63	7.93	NA	NA	76	NA
39009	Eel	2022-10-09	23:15:00	15.60	7.92	NA	NA	76	NA
39010	Eel	2022-10-09	23:30:00	15.58	7.92	NA	NA	76	NA
39011	Eel	2022-10-09	23:45:00	15.56	7.92	NA	NA	76	NA
39012	Eel	2022-10-10	00:00:00	15.53	7.93	NA	NA	76	NA
39013	Eel	2022-10-10	00:15:00	15.53	7.93	NA	NA	76	NA
39014	Eel	2022-10-10	00:30:00	15.56	7.93	NA	NA	76	NA
39015	Eel	2022-10-10	00:45:00	15.53	7.92	NA	NA	76	NA
39016	Eel	2022-10-10	01:00:00	15.51	7.92	NA	NA	76	NA
39017	Eel	2022-10-10	01:15:00	15.51	7.92	NA	NA	76	NA
39018	Eel	2022-10-10	01:30:00	15.51	7.90	NA	NA	76	NA
39019	Eel	2022-10-10	01:45:00	15.46	7.90	NA	NA	76	NA
39020	Eel	2022-10-10	02:00:00	15.10	7.91	NA	NA	76	NA
39021	Eel	2022-10-10	02:15:00	15.20	7.90	NA	NA	76	NA
39022	Eel	2022-10-10	02:30:00	15.32	7.90	NA	NA	76	NA
39023	Eel	2022-10-10	02:45:00	15.32	7.90	NA	NA	76	NA
39024	Eel	2022-10-10	03:00:00	15.29	7.89	NA	NA	76	NA
39025	Eel	2022-10-10	03:15:00	15.20	7.90	NA	NA	76	NA
39026	Eel	2022-10-10	03:30:00	15.08	7.89	NA	NA	76	NA
39027	Eel	2022-10-10	03:45:00	15.08	7.89	NA	NA	76	NA
39028	Eel	2022-10-10	04:00:00	14.91	7.90	NA	NA	76	NA
39029	Eel	2022-10-10	04:15:00	15.01	7.89	NA	NA	76	NA
39030	Eel	2022-10-10	04:30:00	15.06	7.89	NA	NA	76	NA
39031	Eel	2022-10-10	04:45:00	15.03	7.89	NA	NA	76	NA
39032	Eel	2022-10-10	05:00:00	15.08	7.89	NA	NA	76	NA
39033	Eel	2022-10-10	05:15:00	15.13	7.89	NA	NA	76	NA
39034	Eel	2022-10-10	05:30:00	15.13	7.89	NA	NA	76	NA
39035	Eel	2022-10-10	05:45:00	15.01	7.89	NA	NA	76	NA
39036	Eel	2022-10-10	06:00:00	14.82	7.88	NA	NA	76	NA
39037	Eel	2022-10-10	06:15:00	14.74	7.84	NA	NA	76	NA

39038	Eel	2022-10-10	06:30:00	14.70	7.82	NA	NA	76	NA
39039	Eel	2022-10-10	06:45:00	14.31	7.85	NA	NA	76	NA
39040	Eel	2022-10-10	07:00:00	14.86	7.87	NA	NA	76	NA
39041	Eel	2022-10-10	07:15:00	15.08	7.88	NA	NA	76	NA
39042	Eel	2022-10-10	07:30:00	15.08	7.89	NA	NA	76	NA
39043	Eel	2022-10-10	07:45:00	15.13	7.90	NA	NA	76	NA
39044	Eel	2022-10-10	08:00:00	15.15	7.90	NA	NA	76	NA
39045	Eel	2022-10-10	08:15:00	15.20	7.90	NA	NA	76	NA
39046	Eel	2022-10-10	08:30:00	15.25	7.91	NA	NA	76	NA
39047	Eel	2022-10-10	08:45:00	15.29	7.91	NA	NA	76	NA
39048	Eel	2022-10-10	09:00:00	15.29	7.91	NA	NA	76	NA
39049	Eel	2022-10-10	09:15:00	15.39	7.92	NA	NA	76	NA
39050	Eel	2022-10-10	09:30:00	15.41	7.93	NA	NA	76	NA
39051	Eel	2022-10-10	09:45:00	15.46	7.93	NA	NA	76	NA
39052	Eel	2022-10-10	10:00:00	15.51	7.93	NA	NA	76	NA
39053	Eel	2022-10-10	10:15:00	15.56	7.93	NA	NA	76	NA
39054	Eel	2022-10-10	10:30:00	15.60	7.93	NA	NA	76	NA
39055	Eel	2022-10-10	10:45:00	15.65	7.93	NA	NA	76	NA
39056	Eel	2022-10-10	11:00:00	15.70	7.93	NA	NA	76	NA
39057	Eel	2022-10-10	11:15:00	15.72	7.93	NA	NA	76	NA
39058	Eel	2022-10-10	11:30:00	15.80	7.91	NA	NA	76	NA
39059	Eel	2022-10-10	11:45:00	15.89	7.91	NA	NA	76	NA
39060	Eel	2022-10-10	12:00:00	16.01	7.93	NA	NA	76	NA
39061	Eel	2022-10-10	12:15:00	15.99	7.93	NA	NA	76	NA
39062	Eel	2022-10-10	12:30:00	15.89	7.93	NA	NA	76	NA
39063	Eel	2022-10-10	12:45:00	15.96	7.97	NA	NA	76	NA
39064	Eel	2022-10-10	13:00:00	16.01	7.99	NA	NA	76	NA
39065	Eel	2022-10-10	13:15:00	15.96	7.97	NA	NA	76	NA
39066	Eel	2022-10-10	13:30:00	15.99	7.97	NA	NA	76	NA
39067	Eel	2022-10-10	13:45:00	16.01	7.96	NA	NA	76	NA
39068	Eel	2022-10-10	14:00:00	16.11	7.96	NA	NA	76	NA
39069	Eel	2022-10-10	14:15:00	16.20	7.95	NA	NA	76	NA
39070	Eel	2022-10-10	14:30:00	16.27	7.97	NA	NA	76	NA
39071	Eel	2022-10-10	14:45:00	16.27	7.98	NA	NA	76	NA
39072	Eel	2022-10-10	15:00:00	16.30	7.98	NA	NA	76	NA
39073	Eel	2022-10-10	15:15:00	16.32	7.99	NA	NA	76	NA
39074	Eel	2022-10-10	15:30:00	16.34	8.00	NA	NA	76	NA
39075	Eel	2022-10-10	15:45:00	16.30	7.97	NA	NA	76	NA
39076	Eel	2022-10-10	16:00:00	16.20	7.97	NA	NA	76	NA
39077	Eel	2022-10-10	16:15:00	16.13	7.97	NA	NA	76	NA
39078	Eel	2022-10-10	16:30:00	16.06	7.96	NA	NA	76	NA

39079	Eel	2022-10-10	16:45:00	16.01	7.95	NA	NA	76	NA
39080	Eel	2022-10-10	17:00:00	15.99	7.96	NA	NA	76	NA
39081	Eel	2022-10-10	17:15:00	15.94	7.95	NA	NA	76	NA
39082	Eel	2022-10-10	17:30:00	15.94	7.94	NA	NA	76	NA
39083	Eel	2022-10-10	17:45:00	15.99	7.94	NA	NA	76	NA
39084	Eel	2022-10-10	18:00:00	16.01	7.94	NA	NA	76	NA
39085	Eel	2022-10-10	18:15:00	15.99	7.94	NA	NA	76	NA
39086	Eel	2022-10-10	18:30:00	15.96	7.94	NA	NA	76	NA
39087	Eel	2022-10-10	18:45:00	15.96	7.93	NA	NA	76	NA
39088	Eel	2022-10-10	19:00:00	15.91	7.92	NA	NA	76	NA
39089	Eel	2022-10-10	19:15:00	15.82	7.91	NA	NA	76	NA
39090	Eel	2022-10-10	19:30:00	15.84	7.91	NA	NA	76	NA
39091	Eel	2022-10-10	19:45:00	15.96	7.95	NA	NA	76	NA
39092	Eel	2022-10-10	20:00:00	15.99	7.98	NA	NA	76	NA
39093	Eel	2022-10-10	20:15:00	15.96	7.97	NA	NA	76	NA
39094	Eel	2022-10-10	20:30:00	15.89	7.95	NA	NA	76	NA
39095	Eel	2022-10-10	20:45:00	15.84	7.92	NA	NA	76	NA
39096	Eel	2022-10-10	21:00:00	15.87	7.92	NA	NA	76	NA
39097	Eel	2022-10-10	21:15:00	15.87	7.92	NA	NA	76	NA
39098	Eel	2022-10-10	21:30:00	15.87	7.91	NA	NA	76	NA
39099	Eel	2022-10-10	21:45:00	15.87	7.91	NA	NA	76	NA
39100	Eel	2022-10-10	22:00:00	15.84	7.90	NA	NA	76	NA
39101	Eel	2022-10-10	22:15:00	15.84	7.91	NA	NA	76	NA
39102	Eel	2022-10-10	22:30:00	15.84	7.91	NA	NA	76	NA
39103	Eel	2022-10-10	22:45:00	15.87	7.92	NA	NA	76	NA
39104	Eel	2022-10-10	23:00:00	15.84	7.91	NA	NA	76	NA
39105	Eel	2022-10-10	23:15:00	15.82	7.89	NA	NA	76	NA
39106	Eel	2022-10-10	23:30:00	15.80	7.86	NA	NA	76	NA
39107	Eel	2022-10-10	23:45:00	15.80	7.81	NA	NA	76	NA
39108	Eel	2022-10-11	00:00:00	15.75	7.78	NA	NA	76	NA
39109	Eel	2022-10-11	00:15:00	15.65	7.79	NA	NA	76	NA
39110	Eel	2022-10-11	00:30:00	15.60	7.85	NA	NA	76	NA
39111	Eel	2022-10-11	00:45:00	15.68	7.87	NA	NA	76	NA
39112	Eel	2022-10-11	01:00:00	15.63	7.86	NA	NA	76	NA
39113	Eel	2022-10-11	01:15:00	15.63	7.88	NA	NA	76	NA
39114	Eel	2022-10-11	01:30:00	15.65	7.88	NA	NA	76	NA
39115	Eel	2022-10-11	01:45:00	15.63	7.88	NA	NA	76	NA
39116	Eel	2022-10-11	02:00:00	15.63	7.88	NA	NA	76	NA
39117	Eel	2022-10-11	02:15:00	15.60	7.84	NA	NA	76	NA
39118	Eel	2022-10-11	02:30:00	15.41	7.85	NA	NA	76	NA
39119	Eel	2022-10-11	02:45:00	15.06	7.89	NA	NA	76	NA

39120	Eel	2022-10-11	03:00:00	15.27	7.86	NA	NA	76	NA
39121	Eel	2022-10-11	03:15:00	15.44	7.86	NA	NA	76	NA
39122	Eel	2022-10-11	03:30:00	15.37	7.86	NA	NA	76	NA
39123	Eel	2022-10-11	03:45:00	15.32	7.86	NA	NA	76	NA
39124	Eel	2022-10-11	04:00:00	15.17	7.87	NA	NA	76	NA
39125	Eel	2022-10-11	04:15:00	15.25	7.86	NA	NA	76	NA
39126	Eel	2022-10-11	04:30:00	15.10	7.87	NA	NA	76	NA
39127	Eel	2022-10-11	04:45:00	15.08	7.87	NA	NA	76	NA
39128	Eel	2022-10-11	05:00:00	15.03	7.88	NA	NA	76	NA
39129	Eel	2022-10-11	05:15:00	15.06	7.87	NA	NA	76	NA
39130	Eel	2022-10-11	05:30:00	15.08	7.87	NA	NA	76	NA
39131	Eel	2022-10-11	05:45:00	15.13	7.87	NA	NA	76	NA
39132	Eel	2022-10-11	06:00:00	15.15	7.87	NA	NA	76	NA
39133	Eel	2022-10-11	06:15:00	15.06	7.87	NA	NA	76	NA
39134	Eel	2022-10-11	06:30:00	14.98	7.87	NA	NA	76	NA
39135	Eel	2022-10-11	06:45:00	15.06	7.86	NA	NA	76	NA
39136	Eel	2022-10-11	07:00:00	14.72	7.85	NA	NA	76	NA
39137	Eel	2022-10-11	07:15:00	14.60	7.80	NA	NA	76	NA
39138	Eel	2022-10-11	07:30:00	14.58	7.81	NA	NA	76	NA
39139	Eel	2022-10-11	07:45:00	15.01	7.86	NA	NA	76	NA
39140	Eel	2022-10-11	08:00:00	15.27	7.83	NA	NA	76	NA
39141	Eel	2022-10-11	08:15:00	15.29	7.83	NA	NA	76	NA
39142	Eel	2022-10-11	08:30:00	15.32	7.78	NA	NA	76	NA
39143	Eel	2022-10-11	08:45:00	15.34	7.79	NA	NA	76	NA
39144	Eel	2022-10-11	09:00:00	15.41	7.80	NA	NA	76	NA
39145	Eel	2022-10-11	09:15:00	15.46	7.83	NA	NA	76	NA
39146	Eel	2022-10-11	09:30:00	15.51	7.83	NA	NA	76	NA
39147	Eel	2022-10-11	09:45:00	15.58	7.84	NA	NA	76	NA
39148	Eel	2022-10-11	10:00:00	15.63	7.84	NA	NA	76	NA
39149	Eel	2022-10-11	10:15:00	15.68	7.85	NA	NA	76	NA
39150	Eel	2022-10-11	10:30:00	15.72	7.86	NA	NA	76	NA
39151	Eel	2022-10-11	10:45:00	15.77	7.85	NA	NA	76	NA
39152	Eel	2022-10-11	11:00:00	15.84	7.84	NA	NA	76	NA
39153	Eel	2022-10-11	11:15:00	15.89	7.83	NA	NA	76	NA
39154	Eel	2022-10-11	11:30:00	15.96	7.82	NA	NA	76	NA
39155	Eel	2022-10-11	11:45:00	15.99	7.80	NA	NA	76	NA
39156	Eel	2022-10-11	12:00:00	16.08	7.77	NA	NA	76	NA
39157	Eel	2022-10-11	12:15:00	16.18	7.76	NA	NA	76	NA
39158	Eel	2022-10-11	12:30:00	16.27	7.78	NA	NA	76	NA
39159	Eel	2022-10-11	12:45:00	16.39	7.81	NA	NA	76	NA
39160	Eel	2022-10-11	13:00:00	16.56	7.81	NA	NA	76	NA

39161	Eel	2022-10-11	13:15:00	16.61	7.83	NA	NA	76	NA
39162	Eel	2022-10-11	13:30:00	16.44	7.92	NA	NA	76	NA
39163	Eel	2022-10-11	13:45:00	16.34	7.89	NA	NA	76	NA
39164	Eel	2022-10-11	14:00:00	16.37	7.89	NA	NA	76	NA
39165	Eel	2022-10-11	14:15:00	16.34	7.87	NA	NA	76	NA
39166	Eel	2022-10-11	14:30:00	16.39	7.85	NA	NA	76	NA
39167	Eel	2022-10-11	14:45:00	16.53	7.83	NA	NA	76	NA
39168	Eel	2022-10-11	15:00:00	16.70	7.84	NA	NA	76	NA
39169	Eel	2022-10-11	15:15:00	16.70	7.87	NA	NA	76	NA
39170	Eel	2022-10-11	15:30:00	16.65	7.88	NA	NA	76	NA
39171	Eel	2022-10-11	15:45:00	16.72	7.88	NA	NA	76	NA
39172	Eel	2022-10-11	16:00:00	16.77	7.88	NA	NA	76	NA
39173	Eel	2022-10-11	16:15:00	16.77	7.90	NA	NA	76	NA
39174	Eel	2022-10-11	16:30:00	16.72	7.90	NA	NA	76	NA
39175	Eel	2022-10-11	16:45:00	16.72	7.90	NA	NA	76	NA
39176	Eel	2022-10-11	17:00:00	16.61	7.91	NA	NA	76	NA
39177	Eel	2022-10-11	17:15:00	16.51	7.90	NA	NA	76	NA
39178	Eel	2022-10-11	17:30:00	16.46	7.90	NA	NA	76	NA
39179	Eel	2022-10-11	17:45:00	16.44	7.90	NA	NA	76	NA
39180	Eel	2022-10-11	18:00:00	16.42	7.90	NA	NA	76	NA
39181	Eel	2022-10-11	18:15:00	16.37	7.90	NA	NA	76	NA
39182	Eel	2022-10-11	18:30:00	16.32	7.90	NA	NA	76	NA
39183	Eel	2022-10-11	18:45:00	16.25	7.90	NA	NA	76	NA
39184	Eel	2022-10-11	19:00:00	16.22	7.90	NA	NA	76	NA
39185	Eel	2022-10-11	19:15:00	16.15	7.90	NA	NA	76	NA
39186	Eel	2022-10-11	19:30:00	15.91	7.90	NA	NA	76	NA
39187	Eel	2022-10-11	19:45:00	15.72	7.90	NA	NA	76	NA
39188	Eel	2022-10-11	20:00:00	15.77	7.89	NA	NA	76	NA
39189	Eel	2022-10-11	20:15:00	16.01	7.89	NA	NA	76	NA
39190	Eel	2022-10-11	20:30:00	16.20	7.92	NA	NA	76	NA
39191	Eel	2022-10-11	20:45:00	16.22	7.89	NA	NA	76	NA
39192	Eel	2022-10-11	21:00:00	16.20	7.90	NA	NA	76	NA
39193	Eel	2022-10-11	21:15:00	16.20	7.90	NA	NA	76	NA
39194	Eel	2022-10-11	21:30:00	16.20	7.89	NA	NA	76	NA
39195	Eel	2022-10-11	21:45:00	16.20	7.89	NA	NA	76	NA
39196	Eel	2022-10-11	22:00:00	16.18	7.88	NA	NA	76	NA
39197	Eel	2022-10-11	22:15:00	16.15	7.87	NA	NA	76	NA
39198	Eel	2022-10-11	22:30:00	16.13	7.87	NA	NA	76	NA
39199	Eel	2022-10-11	22:45:00	16.18	7.87	NA	NA	76	NA
39200	Eel	2022-10-11	23:00:00	16.15	7.87	NA	NA	76	NA
39201	Eel	2022-10-11	23:15:00	16.15	7.87	NA	NA	76	NA

39202	Eel	2022-10-11	23:30:00	16.15	7.86	NA	NA	76	NA
39203	Eel	2022-10-11	23:45:00	16.13	7.85	NA	NA	76	NA
39204	Eel	2022-10-12	00:00:00	16.11	7.84	NA	NA	76	NA
39205	Eel	2022-10-12	00:15:00	16.11	7.80	NA	NA	76	NA
39206	Eel	2022-10-12	00:30:00	16.06	7.76	NA	NA	76	NA
39207	Eel	2022-10-12	00:45:00	15.99	7.76	NA	NA	76	NA
39208	Eel	2022-10-12	01:00:00	15.99	7.73	NA	NA	76	NA
39209	Eel	2022-10-12	01:15:00	16.01	7.80	NA	NA	76	NA
39210	Eel	2022-10-12	01:30:00	16.01	7.84	NA	NA	76	NA
39211	Eel	2022-10-12	01:45:00	16.01	7.84	NA	NA	76	NA
39212	Eel	2022-10-12	02:00:00	16.01	7.85	NA	NA	76	NA
39213	Eel	2022-10-12	02:15:00	16.03	7.85	NA	NA	76	NA
39214	Eel	2022-10-12	02:30:00	16.01	7.84	NA	NA	76	NA
39215	Eel	2022-10-12	02:45:00	15.99	7.84	NA	NA	76	NA
39216	Eel	2022-10-12	03:00:00	15.99	7.81	NA	NA	76	NA
39217	Eel	2022-10-12	03:15:00	15.96	7.76	NA	NA	76	NA
39218	Eel	2022-10-12	03:30:00	15.91	7.80	NA	NA	76	NA
39219	Eel	2022-10-12	03:45:00	15.84	7.80	NA	NA	76	NA
39220	Eel	2022-10-12	04:00:00	15.77	7.80	NA	NA	76	NA
39221	Eel	2022-10-12	04:15:00	15.84	7.81	NA	NA	76	NA
39222	Eel	2022-10-12	04:30:00	15.84	7.81	NA	NA	76	NA
39223	Eel	2022-10-12	04:45:00	15.80	7.81	NA	NA	76	NA
39224	Eel	2022-10-12	05:00:00	15.82	7.81	NA	NA	76	NA
39225	Eel	2022-10-12	05:15:00	15.68	7.82	NA	NA	76	NA
39226	Eel	2022-10-12	05:30:00	15.65	7.81	NA	NA	76	NA
39227	Eel	2022-10-12	05:45:00	15.65	7.81	NA	NA	76	NA
39228	Eel	2022-10-12	06:00:00	15.58	7.82	NA	NA	76	NA
39229	Eel	2022-10-12	06:15:00	15.60	7.82	NA	NA	76	NA
39230	Eel	2022-10-12	06:30:00	15.63	7.81	NA	NA	76	NA
39231	Eel	2022-10-12	06:45:00	15.63	7.82	NA	NA	76	NA
39232	Eel	2022-10-12	07:00:00	15.51	7.82	NA	NA	76	NA
39233	Eel	2022-10-12	07:15:00	15.25	7.82	NA	NA	76	NA
39234	Eel	2022-10-12	07:30:00	15.37	7.83	NA	NA	76	NA
39235	Eel	2022-10-12	07:45:00	15.49	7.82	NA	NA	76	NA
39236	Eel	2022-10-12	08:00:00	15.49	7.80	NA	NA	76	NA
39237	Eel	2022-10-12	08:15:00	15.29	7.83	NA	NA	76	NA
39238	Eel	2022-10-12	08:30:00	15.56	7.83	NA	NA	76	NA
39239	Eel	2022-10-12	08:45:00	15.80	7.85	NA	NA	76	NA
39240	Eel	2022-10-12	09:00:00	15.84	7.85	NA	NA	76	NA
39241	Eel	2022-10-12	09:15:00	15.89	7.85	NA	NA	76	NA
39242	Eel	2022-10-12	09:30:00	15.91	7.85	NA	NA	76	NA

39243	Eel	2022-10-12	09:45:00	15.99	7.85	NA	NA	76	NA
39244	Eel	2022-10-12	10:00:00	16.03	7.86	NA	NA	76	NA
39245	Eel	2022-10-12	10:15:00	16.08	7.86	NA	NA	76	NA
39246	Eel	2022-10-12	10:30:00	16.13	7.86	NA	NA	76	NA
39247	Eel	2022-10-12	10:45:00	16.18	7.87	NA	NA	76	NA
39248	Eel	2022-10-12	11:00:00	16.22	7.87	NA	NA	76	NA
39249	Eel	2022-10-12	11:15:00	16.27	7.88	NA	NA	76	NA
39250	Eel	2022-10-12	11:30:00	16.32	7.88	NA	NA	76	NA
39251	Eel	2022-10-12	11:45:00	16.34	7.88	NA	NA	76	NA
39252	Eel	2022-10-12	12:00:00	16.42	7.88	NA	NA	76	NA
39253	Eel	2022-10-12	12:15:00	16.49	7.87	NA	NA	76	NA
39254	Eel	2022-10-12	12:30:00	16.53	7.87	NA	NA	76	NA
39255	Eel	2022-10-12	12:45:00	16.61	7.87	NA	NA	76	NA
39256	Eel	2022-10-12	13:00:00	16.68	7.87	NA	NA	76	NA
39257	Eel	2022-10-12	13:15:00	16.80	7.87	NA	NA	76	NA
39258	Eel	2022-10-12	13:30:00	16.96	7.88	NA	NA	76	NA
39259	Eel	2022-10-12	13:45:00	16.87	7.89	NA	NA	76	NA
39260	Eel	2022-10-12	14:00:00	16.94	7.92	NA	NA	76	NA
39261	Eel	2022-10-12	14:15:00	16.96	7.95	NA	NA	76	NA
39262	Eel	2022-10-12	14:30:00	16.94	7.94	NA	NA	76	NA
39263	Eel	2022-10-12	14:45:00	16.94	7.94	NA	NA	76	NA
39264	Eel	2022-10-12	15:00:00	16.99	7.93	NA	NA	76	NA
39265	Eel	2022-10-12	15:15:00	16.96	7.90	NA	NA	76	NA
39266	Eel	2022-10-12	15:30:00	17.15	7.91	NA	NA	76	NA
39267	Eel	2022-10-12	15:45:00	17.20	7.91	NA	NA	76	NA
39268	Eel	2022-10-12	16:00:00	17.25	7.94	NA	NA	76	NA
39269	Eel	2022-10-12	16:15:00	17.18	7.94	NA	NA	76	NA
39270	Eel	2022-10-12	16:30:00	17.20	7.94	NA	NA	76	NA
39271	Eel	2022-10-12	16:45:00	17.25	7.93	NA	NA	76	NA
39272	Eel	2022-10-12	17:00:00	17.20	7.92	NA	NA	76	NA
39273	Eel	2022-10-12	17:15:00	17.18	7.91	NA	NA	76	NA
39274	Eel	2022-10-12	17:30:00	17.08	7.91	NA	NA	76	NA
39275	Eel	2022-10-12	17:45:00	17.01	7.90	NA	NA	76	NA
39276	Eel	2022-10-12	18:00:00	16.96	7.91	NA	NA	76	NA
39277	Eel	2022-10-12	18:15:00	16.92	7.90	NA	NA	76	NA
39278	Eel	2022-10-12	18:30:00	16.94	7.90	NA	NA	76	NA
39279	Eel	2022-10-12	18:45:00	16.94	7.90	NA	NA	76	NA
39280	Eel	2022-10-12	19:00:00	16.94	7.90	NA	NA	76	NA
39281	Eel	2022-10-12	19:15:00	16.92	7.90	NA	NA	76	NA
39282	Eel	2022-10-12	19:30:00	16.89	7.89	NA	NA	76	NA
39283	Eel	2022-10-12	19:45:00	16.89	7.89	NA	NA	76	NA

39284	Eel	2022-10-12	20:00:00	16.87	7.89	NA	NA	76	NA
39285	Eel	2022-10-12	20:15:00	16.87	7.89	NA	NA	76	NA
39286	Eel	2022-10-12	20:30:00	16.84	7.88	NA	NA	76	NA
39287	Eel	2022-10-12	20:45:00	16.77	7.88	NA	NA	76	NA
39288	Eel	2022-10-12	21:00:00	16.72	7.89	NA	NA	76	NA
39289	Eel	2022-10-12	21:15:00	16.84	7.92	NA	NA	76	NA
39290	Eel	2022-10-12	21:30:00	16.77	7.90	NA	NA	76	NA
39291	Eel	2022-10-12	21:45:00	16.72	7.91	NA	NA	76	NA
39292	Eel	2022-10-12	22:00:00	16.65	7.90	NA	NA	76	NA
39293	Eel	2022-10-12	22:15:00	16.65	7.90	NA	NA	76	NA
39294	Eel	2022-10-12	22:30:00	16.65	7.90	NA	NA	76	NA
39295	Eel	2022-10-12	22:45:00	16.65	7.90	NA	NA	76	NA
39296	Eel	2022-10-12	23:00:00	16.65	7.90	NA	NA	76	NA
39297	Eel	2022-10-12	23:15:00	16.61	7.90	NA	NA	76	NA
39298	Eel	2022-10-12	23:30:00	16.61	7.89	NA	NA	76	NA
39299	Eel	2022-10-12	23:45:00	16.63	7.90	NA	NA	76	NA
39300	Eel	2022-10-13	00:00:00	16.65	7.90	NA	NA	76	NA
39301	Eel	2022-10-13	00:15:00	16.65	7.89	NA	NA	76	NA
39302	Eel	2022-10-13	00:30:00	16.63	7.89	NA	NA	76	NA
39303	Eel	2022-10-13	00:45:00	16.61	7.89	NA	NA	76	NA
39304	Eel	2022-10-13	01:00:00	16.58	7.88	NA	NA	76	NA
39305	Eel	2022-10-13	01:15:00	16.56	7.88	NA	NA	76	NA
39306	Eel	2022-10-13	01:30:00	16.56	7.88	NA	NA	76	NA
39307	Eel	2022-10-13	01:45:00	16.56	7.88	NA	NA	76	NA
39308	Eel	2022-10-13	02:00:00	16.51	7.87	NA	NA	76	NA
39309	Eel	2022-10-13	02:15:00	16.53	7.87	NA	NA	76	NA
39310	Eel	2022-10-13	02:30:00	16.49	7.87	NA	NA	76	NA
39311	Eel	2022-10-13	02:45:00	16.49	7.87	NA	NA	76	NA
39312	Eel	2022-10-13	03:00:00	16.51	7.87	NA	NA	76	NA
39313	Eel	2022-10-13	03:15:00	16.49	7.87	NA	NA	76	NA
39314	Eel	2022-10-13	03:30:00	16.46	7.87	NA	NA	76	NA
39315	Eel	2022-10-13	03:45:00	16.46	7.86	NA	NA	76	NA
39316	Eel	2022-10-13	04:00:00	16.44	7.85	NA	NA	76	NA
39317	Eel	2022-10-13	04:15:00	16.39	7.84	NA	NA	76	NA
39318	Eel	2022-10-13	04:30:00	16.37	7.83	NA	NA	76	NA
39319	Eel	2022-10-13	04:45:00	16.37	7.83	NA	NA	76	NA
39320	Eel	2022-10-13	05:00:00	16.34	7.84	NA	NA	76	NA
39321	Eel	2022-10-13	05:15:00	16.34	7.84	NA	NA	76	NA
39322	Eel	2022-10-13	05:30:00	16.34	7.83	NA	NA	76	NA
39323	Eel	2022-10-13	05:45:00	16.34	7.84	NA	NA	76	NA
39324	Eel	2022-10-13	06:00:00	16.34	7.84	NA	NA	76	NA

39325	Eel	2022-10-13	06:15:00	16.34	7.84	NA	NA	76	NA
39326	Eel	2022-10-13	06:30:00	16.34	7.84	NA	NA	76	NA
39327	Eel	2022-10-13	06:45:00	16.34	7.83	NA	NA	76	NA
39328	Eel	2022-10-13	07:00:00	16.34	7.83	NA	NA	76	NA
39329	Eel	2022-10-13	07:15:00	16.32	7.83	NA	NA	76	NA
39330	Eel	2022-10-13	07:30:00	16.34	7.83	NA	NA	76	NA
39331	Eel	2022-10-13	07:45:00	16.34	7.83	NA	NA	76	NA
39332	Eel	2022-10-13	08:00:00	16.34	7.84	NA	NA	76	NA
39333	Eel	2022-10-13	08:15:00	16.37	7.84	NA	NA	76	NA
39334	Eel	2022-10-13	08:30:00	16.39	7.84	NA	NA	76	NA
39335	Eel	2022-10-13	08:45:00	16.42	7.85	NA	NA	76	NA
39336	Eel	2022-10-13	09:00:00	16.44	7.85	NA	NA	76	NA
39337	Eel	2022-10-13	09:15:00	16.39	7.85	NA	NA	76	NA
39338	Eel	2022-10-13	09:30:00	16.42	7.85	NA	NA	76	NA
39339	Eel	2022-10-13	09:45:00	16.42	7.86	NA	NA	76	NA
39340	Eel	2022-10-13	10:00:00	16.39	7.86	NA	NA	76	NA
39341	Eel	2022-10-13	10:15:00	16.39	7.85	NA	NA	76	NA
39342	Eel	2022-10-13	10:30:00	16.42	7.86	NA	NA	76	NA
39343	Eel	2022-10-13	10:45:00	16.42	7.86	NA	NA	76	NA
39344	Eel	2022-10-13	11:00:00	16.44	7.87	NA	NA	76	NA
39345	Eel	2022-10-13	11:15:00	16.49	7.87	NA	NA	76	NA
39346	Eel	2022-10-13	11:30:00	16.51	7.87	NA	NA	76	NA
39347	Eel	2022-10-13	11:45:00	16.53	7.88	NA	NA	76	NA
39348	Eel	2022-10-13	12:00:00	16.58	7.88	NA	NA	76	NA
39349	Eel	2022-10-13	12:15:00	16.63	7.88	NA	NA	76	NA
39350	Eel	2022-10-13	12:30:00	16.65	7.88	NA	NA	76	NA
39351	Eel	2022-10-13	12:45:00	16.72	7.89	NA	NA	76	NA
39352	Eel	2022-10-13	13:00:00	16.75	7.88	NA	NA	76	NA
39353	Eel	2022-10-13	13:15:00	16.80	7.88	NA	NA	76	NA
39354	Eel	2022-10-13	13:30:00	16.89	7.89	NA	NA	76	NA
39355	Eel	2022-10-13	13:45:00	16.94	7.89	NA	NA	76	NA
39356	Eel	2022-10-13	14:00:00	16.87	7.89	NA	NA	76	NA
39357	Eel	2022-10-13	14:15:00	16.89	7.91	NA	NA	76	NA
39358	Eel	2022-10-13	14:30:00	16.87	7.93	NA	NA	76	NA
39359	Eel	2022-10-13	14:45:00	16.84	7.91	NA	NA	76	NA
39360	Eel	2022-10-13	15:00:00	16.87	7.91	NA	NA	76	NA
39361	Eel	2022-10-13	15:15:00	16.87	7.90	NA	NA	76	NA
39362	Eel	2022-10-13	15:30:00	16.84	7.89	NA	NA	76	NA
39363	Eel	2022-10-13	15:45:00	16.82	7.87	NA	NA	76	NA
39364	Eel	2022-10-13	16:00:00	16.84	7.87	NA	NA	76	NA
39365	Eel	2022-10-13	16:15:00	16.84	7.88	NA	NA	76	NA

39366	Eel	2022-10-13	16:30:00	16.92	7.89	NA	NA	76	NA
39367	Eel	2022-10-13	16:45:00	16.92	7.90	NA	NA	76	NA
39368	Eel	2022-10-13	17:00:00	16.89	7.89	NA	NA	76	NA
39369	Eel	2022-10-13	17:15:00	16.87	7.88	NA	NA	76	NA
39370	Eel	2022-10-13	17:30:00	16.87	7.89	NA	NA	76	NA
39371	Eel	2022-10-13	17:45:00	16.87	7.88	NA	NA	76	NA
39372	Eel	2022-10-13	18:00:00	16.92	7.88	NA	NA	76	NA
39373	Eel	2022-10-13	18:15:00	16.92	7.88	NA	NA	76	NA
39374	Eel	2022-10-13	18:30:00	16.92	7.88	NA	NA	76	NA
39375	Eel	2022-10-13	18:45:00	16.89	7.88	NA	NA	76	NA
39376	Eel	2022-10-13	19:00:00	16.87	7.88	NA	NA	76	NA
39377	Eel	2022-10-13	19:15:00	16.87	7.87	NA	NA	76	NA
39378	Eel	2022-10-13	19:30:00	16.89	7.87	NA	NA	76	NA
39379	Eel	2022-10-13	19:45:00	16.89	7.87	NA	NA	76	NA
39380	Eel	2022-10-13	20:00:00	16.92	7.86	NA	NA	76	NA
39381	Eel	2022-10-13	20:15:00	16.92	7.86	NA	NA	76	NA
39382	Eel	2022-10-13	20:30:00	16.92	7.86	NA	NA	76	NA
39383	Eel	2022-10-13	20:45:00	16.92	7.86	NA	NA	76	NA
39384	Eel	2022-10-13	21:00:00	16.92	7.87	NA	NA	76	NA
39385	Eel	2022-10-13	21:15:00	16.94	7.86	NA	NA	76	NA
39386	Eel	2022-10-13	21:30:00	16.94	7.87	NA	NA	76	NA
39387	Eel	2022-10-13	21:45:00	16.94	7.87	NA	NA	76	NA
39388	Eel	2022-10-13	22:00:00	16.94	7.87	NA	NA	76	NA
39389	Eel	2022-10-13	22:15:00	16.94	7.86	NA	NA	76	NA
39390	Eel	2022-10-13	22:30:00	16.89	7.84	NA	NA	76	NA
39391	Eel	2022-10-13	22:45:00	16.89	7.85	NA	NA	76	NA
39392	Eel	2022-10-13	23:00:00	16.89	7.85	NA	NA	76	NA
39393	Eel	2022-10-13	23:15:00	16.84	7.85	NA	NA	76	NA
39394	Eel	2022-10-13	23:30:00	16.82	7.85	NA	NA	76	NA
39395	Eel	2022-10-13	23:45:00	16.82	7.85	NA	NA	76	NA
39396	Eel	2022-10-14	00:00:00	16.84	7.84	NA	NA	76	NA
39397	Eel	2022-10-14	00:15:00	16.84	7.84	NA	NA	76	NA
39398	Eel	2022-10-14	00:30:00	16.84	7.84	NA	NA	76	NA
39399	Eel	2022-10-14	00:45:00	16.87	7.84	NA	NA	76	NA
39400	Eel	2022-10-14	01:00:00	16.87	7.83	NA	NA	76	NA
39401	Eel	2022-10-14	01:15:00	16.87	7.83	NA	NA	76	NA
39402	Eel	2022-10-14	01:30:00	16.89	7.84	NA	NA	76	NA
39403	Eel	2022-10-14	01:45:00	16.94	7.81	NA	NA	76	NA
39404	Eel	2022-10-14	02:00:00	16.94	7.82	NA	NA	76	NA
39405	Eel	2022-10-14	02:15:00	16.92	7.82	NA	NA	76	NA
39406	Eel	2022-10-14	02:30:00	16.89	7.83	NA	NA	76	NA

39407	Eel	2022-10-14	02:45:00	16.89	7.83	NA	NA	76	NA
39408	Eel	2022-10-14	03:00:00	16.92	7.83	NA	NA	76	NA
39409	Eel	2022-10-14	03:15:00	16.92	7.84	NA	NA	76	NA
39410	Eel	2022-10-14	03:30:00	16.92	7.83	NA	NA	76	NA
39411	Eel	2022-10-14	03:45:00	16.89	7.83	NA	NA	76	NA
39412	Eel	2022-10-14	04:00:00	16.84	7.84	NA	NA	76	NA
39413	Eel	2022-10-14	04:15:00	16.89	7.83	NA	NA	76	NA
39414	Eel	2022-10-14	04:30:00	16.87	7.84	NA	NA	76	NA
39415	Eel	2022-10-14	04:45:00	16.89	7.84	NA	NA	76	NA
39416	Eel	2022-10-14	05:00:00	16.89	7.83	NA	NA	76	NA
39417	Eel	2022-10-14	05:15:00	16.89	7.83	NA	NA	76	NA
39418	Eel	2022-10-14	05:30:00	16.92	7.82	NA	NA	76	NA
39419	Eel	2022-10-14	05:45:00	16.94	7.82	NA	NA	76	NA
39420	Eel	2022-10-14	06:00:00	16.94	7.82	NA	NA	76	NA
39421	Eel	2022-10-14	06:15:00	16.94	7.83	NA	NA	76	NA
39422	Eel	2022-10-14	06:30:00	16.96	7.82	NA	NA	76	NA
39423	Eel	2022-10-14	06:45:00	16.99	7.81	NA	NA	76	NA
39424	Eel	2022-10-14	07:00:00	16.99	7.82	NA	NA	76	NA
39425	Eel	2022-10-14	07:15:00	16.99	7.81	NA	NA	76	NA
39426	Eel	2022-10-14	07:30:00	17.01	7.81	NA	NA	76	NA
39427	Eel	2022-10-14	07:45:00	17.03	7.81	NA	NA	76	NA
39428	Eel	2022-10-14	08:00:00	17.03	7.80	NA	NA	76	NA
39429	Eel	2022-10-14	08:15:00	17.08	7.78	NA	NA	76	NA
39430	Eel	2022-10-14	08:30:00	17.11	7.78	NA	NA	76	NA
39431	Eel	2022-10-14	08:45:00	17.13	7.78	NA	NA	76	NA
39432	Eel	2022-10-14	09:00:00	17.11	7.80	NA	NA	76	NA
39433	Eel	2022-10-14	09:15:00	17.11	7.81	NA	NA	76	NA
39434	Eel	2022-10-14	09:30:00	17.11	7.81	NA	NA	76	NA
39435	Eel	2022-10-14	09:45:00	17.13	7.81	NA	NA	76	NA
39436	Eel	2022-10-14	10:00:00	17.18	7.80	NA	NA	76	NA
39437	Eel	2022-10-14	10:15:00	17.15	7.81	NA	NA	76	NA
39438	Eel	2022-10-14	10:30:00	17.11	7.83	NA	NA	76	NA
39439	Eel	2022-10-14	10:45:00	17.11	7.82	NA	NA	76	NA
39440	Eel	2022-10-14	11:00:00	17.18	7.81	NA	NA	76	NA
39441	Eel	2022-10-14	11:15:00	17.20	7.81	NA	NA	76	NA
39442	Eel	2022-10-14	11:30:00	17.20	7.81	NA	NA	76	NA
39443	Eel	2022-10-14	11:45:00	17.22	7.82	NA	NA	76	NA
39444	Eel	2022-10-14	12:00:00	17.22	7.82	NA	NA	76	NA
39445	Eel	2022-10-14	12:15:00	17.20	7.81	NA	NA	76	NA
39446	Eel	2022-10-14	12:30:00	17.18	7.80	NA	NA	76	NA
39447	Eel	2022-10-14	12:45:00	17.20	7.80	NA	NA	76	NA

39448	Eel	2022-10-14	13:00:00	17.22	7.79	NA	NA	76	NA
39449	Eel	2022-10-14	13:15:00	17.25	7.79	NA	NA	76	NA
39450	Eel	2022-10-14	13:30:00	17.27	7.80	NA	NA	76	NA
39451	Eel	2022-10-14	13:45:00	17.34	7.80	NA	NA	76	NA
39452	Eel	2022-10-14	14:00:00	17.39	7.81	NA	NA	76	NA
39453	Eel	2022-10-14	14:15:00	17.46	7.81	NA	NA	76	NA
39454	Eel	2022-10-14	14:30:00	17.49	7.82	NA	NA	76	NA
39455	Eel	2022-10-14	14:45:00	17.39	7.83	NA	NA	76	NA
39456	Eel	2022-10-14	15:00:00	17.42	7.83	NA	NA	76	NA
39457	Eel	2022-10-14	15:15:00	17.42	7.83	NA	NA	76	NA
39458	Eel	2022-10-14	15:30:00	17.44	7.84	NA	NA	76	NA
39459	Eel	2022-10-14	15:45:00	17.46	7.83	NA	NA	76	NA
39460	Eel	2022-10-14	16:00:00	17.46	7.83	NA	NA	76	NA
39461	Eel	2022-10-14	16:15:00	17.46	7.83	NA	NA	76	NA
39462	Eel	2022-10-14	16:30:00	17.49	7.81	NA	NA	76	NA
39463	Eel	2022-10-14	16:45:00	17.53	7.80	NA	NA	76	NA
39464	Eel	2022-10-14	17:00:00	17.56	7.81	NA	NA	76	NA
39465	Eel	2022-10-14	17:15:00	17.56	7.83	NA	NA	76	NA
39466	Eel	2022-10-14	17:30:00	17.56	7.83	NA	NA	76	NA
39467	Eel	2022-10-14	17:45:00	17.53	7.83	NA	NA	76	NA
39468	Eel	2022-10-14	18:00:00	17.53	7.83	NA	NA	76	NA
39469	Eel	2022-10-14	18:15:00	17.53	7.82	NA	NA	76	NA
39470	Eel	2022-10-14	18:30:00	17.51	7.82	NA	NA	76	NA
39471	Eel	2022-10-14	18:45:00	17.51	7.81	NA	NA	76	NA
39472	Eel	2022-10-14	19:00:00	17.53	7.80	NA	NA	76	NA
39473	Eel	2022-10-14	19:15:00	17.53	7.80	NA	NA	76	NA
39474	Eel	2022-10-14	19:30:00	17.56	7.81	NA	NA	76	NA
39475	Eel	2022-10-14	19:45:00	17.53	7.82	NA	NA	76	NA
39476	Eel	2022-10-14	20:00:00	17.53	7.82	NA	NA	76	NA
39477	Eel	2022-10-14	20:15:00	17.53	7.81	NA	NA	76	NA
39478	Eel	2022-10-14	20:30:00	17.53	7.81	NA	NA	76	NA
39479	Eel	2022-10-14	20:45:00	17.53	7.81	NA	NA	76	NA
39480	Eel	2022-10-14	21:00:00	17.49	7.81	NA	NA	76	NA
39481	Eel	2022-10-14	21:15:00	17.53	7.81	NA	NA	76	NA
39482	Eel	2022-10-14	21:30:00	17.53	7.81	NA	NA	76	NA
39483	Eel	2022-10-14	21:45:00	17.53	7.80	NA	NA	76	NA
39484	Eel	2022-10-14	22:00:00	17.53	7.80	NA	NA	76	NA
39485	Eel	2022-10-14	22:15:00	17.51	7.80	NA	NA	76	NA
39486	Eel	2022-10-14	22:30:00	17.49	7.76	NA	NA	76	NA
39487	Eel	2022-10-14	22:45:00	17.44	7.78	NA	NA	76	NA
39488	Eel	2022-10-14	23:00:00	17.44	7.79	NA	NA	76	NA

39489	Eel	2022-10-14	23:15:00	17.39	7.79	NA	NA	76	NA
39490	Eel	2022-10-14	23:30:00	17.22	7.81	NA	NA	76	NA
39491	Eel	2022-10-14	23:45:00	17.20	7.82	NA	NA	76	NA
39492	Eel	2022-10-15	00:00:00	17.20	7.82	NA	NA	76	NA
39493	Eel	2022-10-15	00:15:00	17.18	7.82	NA	NA	76	NA
39494	Eel	2022-10-15	00:30:00	17.15	7.81	NA	NA	76	NA
39495	Eel	2022-10-15	00:45:00	17.15	7.81	NA	NA	76	NA
39496	Eel	2022-10-15	01:00:00	17.13	7.82	NA	NA	76	NA
39497	Eel	2022-10-15	01:15:00	17.11	7.82	NA	NA	76	NA
39498	Eel	2022-10-15	01:30:00	17.11	7.82	NA	NA	76	NA
39499	Eel	2022-10-15	01:45:00	17.13	7.81	NA	NA	76	NA
39500	Eel	2022-10-15	02:00:00	17.11	7.81	NA	NA	76	NA
39501	Eel	2022-10-15	02:15:00	17.11	7.80	NA	NA	76	NA
39502	Eel	2022-10-15	02:30:00	17.11	7.78	NA	NA	76	NA
39503	Eel	2022-10-15	02:45:00	17.11	7.76	NA	NA	76	NA
39504	Eel	2022-10-15	03:00:00	17.11	7.77	NA	NA	76	NA
39505	Eel	2022-10-15	03:15:00	17.11	7.78	NA	NA	76	NA
39506	Eel	2022-10-15	03:30:00	17.11	7.79	NA	NA	76	NA
39507	Eel	2022-10-15	03:45:00	17.03	7.80	NA	NA	76	NA
39508	Eel	2022-10-15	04:00:00	17.03	7.80	NA	NA	76	NA
39509	Eel	2022-10-15	04:15:00	17.03	7.80	NA	NA	76	NA
39510	Eel	2022-10-15	04:30:00	17.03	7.81	NA	NA	76	NA
39511	Eel	2022-10-15	04:45:00	17.01	7.81	NA	NA	76	NA
39512	Eel	2022-10-15	05:00:00	17.01	7.81	NA	NA	76	NA
39513	Eel	2022-10-15	05:15:00	17.01	7.81	NA	NA	76	NA
39514	Eel	2022-10-15	05:30:00	17.01	7.80	NA	NA	76	NA
39515	Eel	2022-10-15	05:45:00	16.99	7.80	NA	NA	76	NA
39516	Eel	2022-10-15	06:00:00	16.99	7.79	NA	NA	76	NA
39517	Eel	2022-10-15	06:15:00	16.99	7.76	NA	NA	76	NA
39518	Eel	2022-10-15	06:30:00	16.99	7.76	NA	NA	76	NA
39519	Eel	2022-10-15	06:45:00	16.99	7.77	NA	NA	76	NA
39520	Eel	2022-10-15	07:00:00	16.92	7.75	NA	NA	76	NA
39521	Eel	2022-10-15	07:15:00	16.92	7.76	NA	NA	76	NA
39522	Eel	2022-10-15	07:30:00	16.92	7.78	NA	NA	76	NA
39523	Eel	2022-10-15	07:45:00	16.92	7.76	NA	NA	76	NA
39524	Eel	2022-10-15	08:00:00	16.96	7.77	NA	NA	76	NA
39525	Eel	2022-10-15	08:15:00	16.92	7.75	NA	NA	76	NA
39526	Eel	2022-10-15	08:30:00	16.94	7.75	NA	NA	76	NA
39527	Eel	2022-10-15	08:45:00	16.99	7.73	NA	NA	76	NA
39528	Eel	2022-10-15	09:00:00	16.96	7.73	NA	NA	76	NA
39529	Eel	2022-10-15	09:15:00	16.99	7.74	NA	NA	76	NA

39530	Eel	2022-10-15	09:30:00	17.03	7.75	NA	NA	76	NA
39531	Eel	2022-10-15	09:45:00	16.96	7.72	NA	NA	76	NA
39532	Eel	2022-10-15	10:00:00	16.99	7.74	NA	NA	76	NA
39533	Eel	2022-10-15	10:15:00	17.03	7.74	NA	NA	76	NA
39534	Eel	2022-10-15	10:30:00	17.11	7.73	NA	NA	76	NA
39535	Eel	2022-10-15	10:45:00	17.18	7.77	NA	NA	76	NA
39536	Eel	2022-10-15	11:00:00	17.18	7.77	NA	NA	76	NA
39537	Eel	2022-10-15	11:15:00	17.06	7.77	NA	NA	76	NA
39538	Eel	2022-10-15	11:30:00	16.99	7.81	NA	NA	76	NA
39539	Eel	2022-10-15	11:45:00	16.96	7.84	NA	NA	76	NA
39540	Eel	2022-10-15	12:00:00	16.94	7.85	NA	NA	76	NA
39541	Eel	2022-10-15	12:15:00	16.96	7.85	NA	NA	76	NA
39542	Eel	2022-10-15	12:30:00	17.01	7.85	NA	NA	76	NA
39543	Eel	2022-10-15	12:45:00	17.03	7.86	NA	NA	76	NA
39544	Eel	2022-10-15	13:00:00	17.06	7.86	NA	NA	76	NA
39545	Eel	2022-10-15	13:15:00	17.06	7.87	NA	NA	76	NA
39546	Eel	2022-10-15	13:30:00	17.06	7.86	NA	NA	76	NA
39547	Eel	2022-10-15	13:45:00	17.06	7.87	NA	NA	76	NA
39548	Eel	2022-10-15	14:00:00	17.11	7.86	NA	NA	76	NA
39549	Eel	2022-10-15	14:15:00	17.13	7.87	NA	NA	76	NA
39550	Eel	2022-10-15	14:30:00	17.18	7.86	NA	NA	76	NA
39551	Eel	2022-10-15	14:45:00	17.22	7.87	NA	NA	76	NA
39552	Eel	2022-10-15	15:00:00	17.25	7.87	NA	NA	76	NA
39553	Eel	2022-10-15	15:15:00	17.27	7.86	NA	NA	76	NA
39554	Eel	2022-10-15	15:30:00	17.32	7.86	NA	NA	76	NA
39555	Eel	2022-10-15	15:45:00	17.34	7.87	NA	NA	76	NA
39556	Eel	2022-10-15	16:00:00	17.34	7.88	NA	NA	76	NA
39557	Eel	2022-10-15	16:15:00	17.32	7.87	NA	NA	76	NA
39558	Eel	2022-10-15	16:30:00	17.32	7.88	NA	NA	76	NA
39559	Eel	2022-10-15	16:45:00	17.32	7.89	NA	NA	76	NA
39560	Eel	2022-10-15	17:00:00	17.30	7.89	NA	NA	76	NA
39561	Eel	2022-10-15	17:15:00	17.30	7.89	NA	NA	76	NA
39562	Eel	2022-10-15	17:30:00	17.30	7.88	NA	NA	76	NA
39563	Eel	2022-10-15	17:45:00	17.27	7.88	NA	NA	76	NA
39564	Eel	2022-10-15	18:00:00	17.27	7.87	NA	NA	76	NA
39565	Eel	2022-10-15	18:15:00	17.20	7.88	NA	NA	76	NA
39566	Eel	2022-10-15	18:30:00	17.20	7.87	NA	NA	76	NA
39567	Eel	2022-10-15	18:45:00	17.18	7.87	NA	NA	76	NA
39568	Eel	2022-10-15	19:00:00	17.20	7.87	NA	NA	76	NA
39569	Eel	2022-10-15	19:15:00	17.22	7.87	NA	NA	76	NA
39570	Eel	2022-10-15	19:30:00	17.25	7.86	NA	NA	76	NA

39571	Eel	2022-10-15	19:45:00	17.22	7.86	NA	NA	76	NA
39572	Eel	2022-10-15	20:00:00	17.20	7.86	NA	NA	76	NA
39573	Eel	2022-10-15	20:15:00	17.15	7.86	NA	NA	76	NA
39574	Eel	2022-10-15	20:30:00	17.18	7.86	NA	NA	76	NA
39575	Eel	2022-10-15	20:45:00	17.18	7.85	NA	NA	76	NA
39576	Eel	2022-10-15	21:00:00	17.18	7.84	NA	NA	76	NA
39577	Eel	2022-10-15	21:15:00	17.20	7.84	NA	NA	76	NA
39578	Eel	2022-10-15	21:30:00	17.13	7.83	NA	NA	76	NA
39579	Eel	2022-10-15	21:45:00	17.18	7.82	NA	NA	76	NA
39580	Eel	2022-10-15	22:00:00	17.18	7.81	NA	NA	76	NA
39581	Eel	2022-10-15	22:15:00	17.20	7.81	NA	NA	76	NA
39582	Eel	2022-10-15	22:30:00	17.22	7.81	NA	NA	76	NA
39583	Eel	2022-10-15	22:45:00	17.25	7.80	NA	NA	76	NA
39584	Eel	2022-10-15	23:00:00	17.22	7.79	NA	NA	76	NA
39585	Eel	2022-10-15	23:15:00	17.20	7.77	NA	NA	76	NA
39586	Eel	2022-10-15	23:30:00	17.08	7.78	NA	NA	76	NA
39587	Eel	2022-10-15	23:45:00	17.06	7.78	NA	NA	76	NA
39588	Eel	2022-10-16	00:00:00	17.06	7.80	NA	NA	76	NA
39589	Eel	2022-10-16	00:15:00	16.96	7.82	NA	NA	76	NA
39590	Eel	2022-10-16	00:30:00	16.92	7.83	NA	NA	76	NA
39591	Eel	2022-10-16	00:45:00	16.92	7.83	NA	NA	76	NA
39592	Eel	2022-10-16	01:00:00	16.89	7.84	NA	NA	76	NA
39593	Eel	2022-10-16	01:15:00	16.87	7.84	NA	NA	76	NA
39594	Eel	2022-10-16	01:30:00	16.84	7.84	NA	NA	76	NA
39595	Eel	2022-10-16	01:45:00	16.82	7.83	NA	NA	76	NA
39596	Eel	2022-10-16	02:00:00	16.80	7.83	NA	NA	76	NA
39597	Eel	2022-10-16	02:15:00	16.77	7.84	NA	NA	76	NA
39598	Eel	2022-10-16	02:30:00	16.77	7.84	NA	NA	76	NA
39599	Eel	2022-10-16	02:45:00	16.75	7.83	NA	NA	76	NA
39600	Eel	2022-10-16	03:00:00	16.75	7.83	NA	NA	76	NA
39601	Eel	2022-10-16	03:15:00	16.72	7.83	NA	NA	76	NA
39602	Eel	2022-10-16	03:30:00	16.72	7.83	NA	NA	76	NA
39603	Eel	2022-10-16	03:45:00	16.70	7.83	NA	NA	76	NA
39604	Eel	2022-10-16	04:00:00	16.70	7.83	NA	NA	76	NA
39605	Eel	2022-10-16	04:15:00	16.70	7.83	NA	NA	76	NA
39606	Eel	2022-10-16	04:30:00	16.68	7.83	NA	NA	76	NA
39607	Eel	2022-10-16	04:45:00	16.68	7.83	NA	NA	76	NA
39608	Eel	2022-10-16	05:00:00	16.68	7.83	NA	NA	76	NA
39609	Eel	2022-10-16	05:15:00	16.68	7.83	NA	NA	76	NA
39610	Eel	2022-10-16	05:30:00	16.68	7.83	NA	NA	76	NA
39611	Eel	2022-10-16	05:45:00	16.68	7.82	NA	NA	76	NA

39612	Eel	2022-10-16	06:00:00	16.65	7.82	NA	NA	76	NA
39613	Eel	2022-10-16	06:15:00	16.63	7.82	NA	NA	76	NA
39614	Eel	2022-10-16	06:30:00	16.63	7.81	NA	NA	76	NA
39615	Eel	2022-10-16	06:45:00	16.61	7.80	NA	NA	76	NA
39616	Eel	2022-10-16	07:00:00	16.56	7.79	NA	NA	76	NA
39617	Eel	2022-10-16	07:15:00	16.49	7.78	NA	NA	76	NA
39618	Eel	2022-10-16	07:30:00	16.53	7.79	NA	NA	76	NA
39619	Eel	2022-10-16	07:45:00	16.51	7.78	NA	NA	76	NA
39620	Eel	2022-10-16	08:00:00	16.37	7.78	NA	NA	76	NA
39621	Eel	2022-10-16	08:15:00	16.34	7.79	NA	NA	76	NA
39622	Eel	2022-10-16	08:30:00	16.30	7.78	NA	NA	76	NA
39623	Eel	2022-10-16	08:45:00	16.27	7.79	NA	NA	76	NA
39624	Eel	2022-10-16	09:00:00	16.18	7.76	NA	NA	76	NA
39625	Eel	2022-10-16	09:15:00	16.22	7.77	NA	NA	76	NA
39626	Eel	2022-10-16	09:30:00	16.27	7.78	NA	NA	76	NA
39627	Eel	2022-10-16	09:45:00	16.42	7.78	NA	NA	76	NA
39628	Eel	2022-10-16	10:00:00	16.65	7.81	NA	NA	76	NA
39629	Eel	2022-10-16	10:15:00	16.75	7.82	NA	NA	76	NA
39630	Eel	2022-10-16	10:30:00	16.82	7.81	NA	NA	76	NA
39631	Eel	2022-10-16	10:45:00	16.92	7.82	NA	NA	76	NA
39632	Eel	2022-10-16	11:00:00	17.01	7.80	NA	NA	76	NA
39633	Eel	2022-10-16	11:15:00	17.15	7.81	NA	NA	76	NA
39634	Eel	2022-10-16	11:30:00	17.20	7.82	NA	NA	76	NA
39635	Eel	2022-10-16	11:45:00	17.13	7.81	NA	NA	76	NA
39636	Eel	2022-10-16	12:00:00	17.11	7.85	NA	NA	76	NA
39637	Eel	2022-10-16	12:15:00	17.15	7.87	NA	NA	76	NA
39638	Eel	2022-10-16	12:30:00	17.18	7.87	NA	NA	76	NA
39639	Eel	2022-10-16	12:45:00	17.22	7.88	NA	NA	76	NA
39640	Eel	2022-10-16	13:00:00	17.20	7.88	NA	NA	76	NA
39641	Eel	2022-10-16	13:15:00	17.30	7.88	NA	NA	76	NA
39642	Eel	2022-10-16	13:30:00	17.34	7.89	NA	NA	76	NA
39643	Eel	2022-10-16	13:45:00	17.39	7.89	NA	NA	76	NA
39644	Eel	2022-10-16	14:00:00	17.42	7.90	NA	NA	76	NA
39645	Eel	2022-10-16	14:15:00	17.44	7.90	NA	NA	76	NA
39646	Eel	2022-10-16	14:30:00	17.42	7.90	NA	NA	76	NA
39647	Eel	2022-10-16	14:45:00	17.46	7.90	NA	NA	76	NA
39648	Eel	2022-10-16	15:00:00	17.46	7.90	NA	NA	76	NA
39649	Eel	2022-10-16	15:15:00	17.49	7.91	NA	NA	76	NA
39650	Eel	2022-10-16	15:30:00	17.49	7.91	NA	NA	76	NA
39651	Eel	2022-10-16	15:45:00	17.51	7.91	NA	NA	76	NA
39652	Eel	2022-10-16	16:00:00	17.51	7.91	NA	NA	76	NA

39653	Eel	2022-10-16	16:15:00	17.49	7.91	NA	NA	76	NA
39654	Eel	2022-10-16	16:30:00	17.46	7.91	NA	NA	76	NA
39655	Eel	2022-10-16	16:45:00	17.46	7.91	NA	NA	76	NA
39656	Eel	2022-10-16	17:00:00	17.44	7.91	NA	NA	76	NA
39657	Eel	2022-10-16	17:15:00	17.42	7.91	NA	NA	76	NA
39658	Eel	2022-10-16	17:30:00	17.44	7.92	NA	NA	76	NA
39659	Eel	2022-10-16	17:45:00	17.42	7.91	NA	NA	76	NA
39660	Eel	2022-10-16	18:00:00	17.42	7.91	NA	NA	76	NA
39661	Eel	2022-10-16	18:15:00	17.44	7.90	NA	NA	76	NA
39662	Eel	2022-10-16	18:30:00	17.49	7.89	NA	NA	76	NA
39663	Eel	2022-10-16	18:45:00	17.49	7.87	NA	NA	76	NA
39664	Eel	2022-10-16	19:00:00	17.51	7.87	NA	NA	76	NA
39665	Eel	2022-10-16	19:15:00	17.49	7.88	NA	NA	76	NA
39666	Eel	2022-10-16	19:30:00	17.42	7.87	NA	NA	76	NA
39667	Eel	2022-10-16	19:45:00	17.39	7.87	NA	NA	76	NA
39668	Eel	2022-10-16	20:00:00	17.39	7.88	NA	NA	76	NA
39669	Eel	2022-10-16	20:15:00	17.39	7.89	NA	NA	76	NA
39670	Eel	2022-10-16	20:30:00	17.34	7.88	NA	NA	76	NA
39671	Eel	2022-10-16	20:45:00	17.37	7.88	NA	NA	76	NA
39672	Eel	2022-10-16	21:00:00	17.37	7.88	NA	NA	76	NA
39673	Eel	2022-10-16	21:15:00	17.34	7.88	NA	NA	76	NA
39674	Eel	2022-10-16	21:30:00	17.34	7.88	NA	NA	76	NA
39675	Eel	2022-10-16	21:45:00	17.37	7.88	NA	NA	76	NA
39676	Eel	2022-10-16	22:00:00	17.42	7.88	NA	NA	76	NA
39677	Eel	2022-10-16	22:15:00	17.44	7.87	NA	NA	76	NA
39678	Eel	2022-10-16	22:30:00	17.46	7.87	NA	NA	76	NA
39679	Eel	2022-10-16	22:45:00	17.44	7.86	NA	NA	76	NA
39680	Eel	2022-10-16	23:00:00	17.39	7.85	NA	NA	76	NA
39681	Eel	2022-10-16	23:15:00	17.39	7.85	NA	NA	76	NA
39682	Eel	2022-10-16	23:30:00	17.42	7.84	NA	NA	76	NA
39683	Eel	2022-10-16	23:45:00	17.42	7.82	NA	NA	76	NA
39684	Eel	2022-10-17	00:00:00	17.39	7.81	NA	NA	76	NA
39685	Eel	2022-10-17	00:15:00	17.34	7.80	NA	NA	76	NA
39686	Eel	2022-10-17	00:30:00	17.30	7.84	NA	NA	76	NA
39687	Eel	2022-10-17	00:45:00	17.34	7.84	NA	NA	76	NA
39688	Eel	2022-10-17	01:00:00	17.13	7.84	NA	NA	76	NA
39689	Eel	2022-10-17	01:15:00	16.99	7.85	NA	NA	76	NA
39690	Eel	2022-10-17	01:30:00	16.99	7.86	NA	NA	76	NA
39691	Eel	2022-10-17	01:45:00	16.96	7.86	NA	NA	76	NA
39692	Eel	2022-10-17	02:00:00	16.92	7.86	NA	NA	76	NA
39693	Eel	2022-10-17	02:15:00	16.89	7.85	NA	NA	76	NA

39694	Eel	2022-10-17	02:30:00	16.89	7.86	NA	NA	76	NA
39695	Eel	2022-10-17	02:45:00	16.89	7.85	NA	NA	76	NA
39696	Eel	2022-10-17	03:00:00	16.89	7.85	NA	NA	76	NA
39697	Eel	2022-10-17	03:15:00	16.87	7.85	NA	NA	76	NA
39698	Eel	2022-10-17	03:30:00	16.87	7.85	NA	NA	76	NA
39699	Eel	2022-10-17	03:45:00	16.84	7.85	NA	NA	76	NA
39700	Eel	2022-10-17	04:00:00	16.82	7.85	NA	NA	76	NA
39701	Eel	2022-10-17	04:15:00	16.80	7.85	NA	NA	76	NA
39702	Eel	2022-10-17	04:30:00	16.80	7.85	NA	NA	76	NA
39703	Eel	2022-10-17	04:45:00	16.82	7.85	NA	NA	76	NA
39704	Eel	2022-10-17	05:00:00	16.80	7.85	NA	NA	76	NA
39705	Eel	2022-10-17	05:15:00	16.82	7.85	NA	NA	76	NA
39706	Eel	2022-10-17	05:30:00	16.80	7.84	NA	NA	76	NA
39707	Eel	2022-10-17	05:45:00	16.80	7.85	NA	NA	76	NA
39708	Eel	2022-10-17	06:00:00	16.77	7.84	NA	NA	76	NA
39709	Eel	2022-10-17	06:15:00	16.77	7.84	NA	NA	76	NA
39710	Eel	2022-10-17	06:30:00	16.77	7.84	NA	NA	76	NA
39711	Eel	2022-10-17	06:45:00	16.77	7.85	NA	NA	76	NA
39712	Eel	2022-10-17	07:00:00	16.77	7.84	NA	NA	76	NA
39713	Eel	2022-10-17	07:15:00	16.75	7.84	NA	NA	76	NA
39714	Eel	2022-10-17	07:30:00	16.70	7.83	NA	NA	76	NA
39715	Eel	2022-10-17	07:45:00	16.68	7.81	NA	NA	76	NA
39716	Eel	2022-10-17	08:00:00	16.70	7.80	NA	NA	76	NA
39717	Eel	2022-10-17	08:15:00	16.70	7.82	NA	NA	76	NA
39718	Eel	2022-10-17	08:30:00	16.70	7.82	NA	NA	76	NA
39719	Eel	2022-10-17	08:45:00	16.72	7.81	NA	NA	76	NA
39720	Eel	2022-10-17	09:00:00	16.75	7.81	NA	NA	76	NA
39721	Eel	2022-10-17	09:15:00	16.75	7.83	NA	NA	76	NA
39722	Eel	2022-10-17	09:30:00	16.77	7.83	NA	NA	76	NA
39723	Eel	2022-10-17	09:45:00	16.75	7.82	NA	NA	76	NA
39724	Eel	2022-10-17	10:00:00	16.72	7.82	NA	NA	76	NA
39725	Eel	2022-10-17	10:15:00	16.72	7.83	NA	NA	76	NA
39726	Eel	2022-10-17	10:30:00	16.63	7.82	NA	NA	76	NA
39727	Eel	2022-10-17	10:45:00	16.58	7.83	NA	NA	76	NA
39728	Eel	2022-10-17	11:00:00	16.65	7.83	NA	NA	76	NA
39729	Eel	2022-10-17	11:15:00	16.75	7.83	NA	NA	76	NA
39730	Eel	2022-10-17	11:30:00	16.82	7.82	NA	NA	76	NA
39731	Eel	2022-10-17	11:45:00	16.84	7.82	NA	NA	76	NA
39732	Eel	2022-10-17	12:00:00	16.92	7.82	NA	NA	76	NA
39733	Eel	2022-10-17	12:15:00	16.94	7.85	NA	NA	76	NA
39734	Eel	2022-10-17	12:30:00	16.89	7.86	NA	NA	76	NA

39735	Eel	2022-10-17	12:45:00	16.92	7.87	NA	NA	76	NA
39736	Eel	2022-10-17	13:00:00	16.96	7.88	NA	NA	76	NA
39737	Eel	2022-10-17	13:15:00	16.96	7.89	NA	NA	76	NA
39738	Eel	2022-10-17	13:30:00	16.99	7.89	NA	NA	76	NA
39739	Eel	2022-10-17	13:45:00	17.01	7.89	NA	NA	76	NA
39740	Eel	2022-10-17	14:00:00	17.01	7.89	NA	NA	76	NA
39741	Eel	2022-10-17	14:15:00	17.01	7.89	NA	NA	76	NA
39742	Eel	2022-10-17	14:30:00	17.03	7.89	NA	NA	76	NA
39743	Eel	2022-10-17	14:45:00	17.03	7.90	NA	NA	76	NA
39744	Eel	2022-10-17	15:00:00	17.06	7.90	NA	NA	76	NA
39745	Eel	2022-10-17	15:15:00	17.08	7.91	NA	NA	76	NA
39746	Eel	2022-10-17	15:30:00	17.08	7.91	NA	NA	76	NA
39747	Eel	2022-10-17	15:45:00	17.08	7.91	NA	NA	76	NA
39748	Eel	2022-10-17	16:00:00	17.08	7.90	NA	NA	76	NA
39749	Eel	2022-10-17	16:15:00	17.08	7.91	NA	NA	76	NA
39750	Eel	2022-10-17	16:30:00	17.08	7.91	NA	NA	76	NA
39751	Eel	2022-10-17	16:45:00	17.06	7.90	NA	NA	76	NA
39752	Eel	2022-10-17	17:00:00	17.06	7.90	NA	NA	76	NA
39753	Eel	2022-10-17	17:15:00	17.06	7.90	NA	NA	76	NA
39754	Eel	2022-10-17	17:30:00	17.06	7.90	NA	NA	76	NA
39755	Eel	2022-10-17	17:45:00	17.03	7.90	NA	NA	76	NA
39756	Eel	2022-10-17	18:00:00	17.03	7.90	NA	NA	76	NA
39757	Eel	2022-10-17	18:15:00	17.03	7.89	NA	NA	76	NA
39758	Eel	2022-10-17	18:30:00	17.03	7.90	NA	NA	76	NA
39759	Eel	2022-10-17	18:45:00	17.03	7.90	NA	NA	76	NA
39760	Eel	2022-10-17	19:00:00	17.03	7.90	NA	NA	76	NA
39761	Eel	2022-10-17	19:15:00	17.03	7.89	NA	NA	76	NA
39762	Eel	2022-10-17	19:30:00	17.03	7.88	NA	NA	76	NA
39763	Eel	2022-10-17	19:45:00	17.01	7.88	NA	NA	76	NA
39764	Eel	2022-10-17	20:00:00	17.03	7.87	NA	NA	76	NA
39765	Eel	2022-10-17	20:15:00	17.01	7.88	NA	NA	76	NA
39766	Eel	2022-10-17	20:30:00	16.99	7.88	NA	NA	76	NA
39767	Eel	2022-10-17	20:45:00	16.99	7.88	NA	NA	76	NA
39768	Eel	2022-10-17	21:00:00	16.99	7.87	NA	NA	76	NA
39769	Eel	2022-10-17	21:15:00	16.96	7.87	NA	NA	76	NA
39770	Eel	2022-10-17	21:30:00	16.96	7.87	NA	NA	76	NA
39771	Eel	2022-10-17	21:45:00	16.96	7.86	NA	NA	76	NA
39772	Eel	2022-10-17	22:00:00	16.96	7.86	NA	NA	76	NA
39773	Eel	2022-10-17	22:15:00	16.94	7.86	NA	NA	76	NA
39774	Eel	2022-10-17	22:30:00	16.94	7.86	NA	NA	76	NA
39775	Eel	2022-10-17	22:45:00	16.94	7.86	NA	NA	76	NA

39776	Eel	2022-10-17	23:00:00	16.96	7.85	NA	NA	76	NA
39777	Eel	2022-10-17	23:15:00	16.94	7.85	NA	NA	76	NA
39778	Eel	2022-10-17	23:30:00	16.96	7.85	NA	NA	76	NA
39779	Eel	2022-10-17	23:45:00	16.99	7.84	NA	NA	76	NA
39780	Eel	2022-10-18	00:00:00	17.01	7.83	NA	NA	76	NA
39781	Eel	2022-10-18	00:15:00	17.03	7.83	NA	NA	76	NA
39782	Eel	2022-10-18	00:30:00	17.08	7.82	NA	NA	76	NA
39783	Eel	2022-10-18	00:45:00	17.11	7.81	NA	NA	76	NA
39784	Eel	2022-10-18	01:00:00	17.11	7.82	NA	NA	76	NA
39785	Eel	2022-10-18	01:15:00	17.06	7.83	NA	NA	76	NA
39786	Eel	2022-10-18	01:30:00	17.06	7.82	NA	NA	76	NA
39787	Eel	2022-10-18	01:45:00	17.01	7.82	NA	NA	76	NA
39788	Eel	2022-10-18	02:00:00	16.96	7.82	NA	NA	76	NA
39789	Eel	2022-10-18	02:15:00	16.96	7.83	NA	NA	76	NA
39790	Eel	2022-10-18	02:30:00	16.92	7.84	NA	NA	76	NA
39791	Eel	2022-10-18	02:45:00	16.92	7.85	NA	NA	76	NA
39792	Eel	2022-10-18	03:00:00	16.92	7.85	NA	NA	76	NA
39793	Eel	2022-10-18	03:15:00	16.92	7.84	NA	NA	76	NA
39794	Eel	2022-10-18	03:30:00	16.89	7.85	NA	NA	76	NA
39795	Eel	2022-10-18	03:45:00	16.89	7.84	NA	NA	76	NA
39796	Eel	2022-10-18	04:00:00	16.89	7.84	NA	NA	76	NA
39797	Eel	2022-10-18	04:15:00	16.87	7.84	NA	NA	76	NA
39798	Eel	2022-10-18	04:30:00	16.87	7.82	NA	NA	76	NA
39799	Eel	2022-10-18	04:45:00	16.87	7.83	NA	NA	76	NA
39800	Eel	2022-10-18	05:00:00	16.87	7.83	NA	NA	76	NA
39801	Eel	2022-10-18	05:15:00	16.87	7.82	NA	NA	76	NA
39802	Eel	2022-10-18	05:30:00	16.84	7.83	NA	NA	76	NA
39803	Eel	2022-10-18	05:45:00	16.84	7.83	NA	NA	76	NA
39804	Eel	2022-10-18	06:00:00	16.84	7.83	NA	NA	76	NA
39805	Eel	2022-10-18	06:15:00	16.87	7.84	NA	NA	76	NA
39806	Eel	2022-10-18	06:30:00	16.87	7.84	NA	NA	76	NA
39807	Eel	2022-10-18	06:45:00	16.87	7.83	NA	NA	76	NA
39808	Eel	2022-10-18	07:00:00	16.84	7.84	NA	NA	76	NA
39809	Eel	2022-10-18	07:15:00	16.84	7.83	NA	NA	76	NA
39810	Eel	2022-10-18	07:30:00	16.82	7.82	NA	NA	76	NA
39811	Eel	2022-10-18	07:45:00	16.84	7.83	NA	NA	76	NA
39812	Eel	2022-10-18	08:00:00	16.84	7.83	NA	NA	76	NA
39813	Eel	2022-10-18	08:15:00	16.84	7.83	NA	NA	76	NA
39814	Eel	2022-10-18	08:30:00	16.87	7.83	NA	NA	76	NA
39815	Eel	2022-10-18	08:45:00	16.89	7.83	NA	NA	76	NA
39816	Eel	2022-10-18	09:00:00	16.92	7.84	NA	NA	76	NA

39817	Eel	2022-10-18	09:15:00	16.94	7.84	NA	NA	76	NA
39818	Eel	2022-10-18	09:30:00	16.94	7.84	NA	NA	76	NA
39819	Eel	2022-10-18	09:45:00	16.99	7.85	NA	NA	76	NA
39820	Eel	2022-10-18	10:00:00	17.03	7.85	NA	NA	76	NA
39821	Eel	2022-10-18	10:15:00	17.01	7.84	NA	NA	76	NA
39822	Eel	2022-10-18	10:30:00	17.01	7.84	NA	NA	76	NA
39823	Eel	2022-10-18	10:45:00	17.03	7.83	NA	NA	76	NA
39824	Eel	2022-10-18	11:00:00	17.11	7.84	NA	NA	76	NA
39825	Eel	2022-10-18	11:15:00	17.13	7.85	NA	NA	76	NA
39826	Eel	2022-10-18	11:30:00	17.18	7.85	NA	NA	76	NA
39827	Eel	2022-10-18	11:45:00	17.20	7.85	NA	NA	76	NA
39828	Eel	2022-10-18	12:00:00	17.25	7.85	NA	NA	76	NA
39829	Eel	2022-10-18	12:15:00	17.27	7.85	NA	NA	76	NA
39830	Eel	2022-10-18	12:30:00	17.37	7.85	NA	NA	76	NA
39831	Eel	2022-10-18	12:45:00	17.46	7.85	NA	NA	76	NA
39832	Eel	2022-10-18	13:00:00	17.56	7.84	NA	NA	76	NA
39833	Eel	2022-10-18	13:15:00	17.61	7.84	NA	NA	76	NA
39834	Eel	2022-10-18	13:30:00	17.75	7.85	NA	NA	76	NA
39835	Eel	2022-10-18	13:45:00	17.80	7.84	NA	NA	76	NA
39836	Eel	2022-10-18	14:00:00	17.68	7.86	NA	NA	76	NA
39837	Eel	2022-10-18	14:15:00	17.63	7.88	NA	NA	76	NA
39838	Eel	2022-10-18	14:30:00	17.58	7.90	NA	NA	76	NA
39839	Eel	2022-10-18	14:45:00	17.58	7.90	NA	NA	76	NA
39840	Eel	2022-10-18	15:00:00	17.58	7.90	NA	NA	76	NA
39841	Eel	2022-10-18	15:15:00	17.58	7.90	NA	NA	76	NA
39842	Eel	2022-10-18	15:30:00	17.61	7.91	NA	NA	76	NA
39843	Eel	2022-10-18	15:45:00	17.53	7.91	NA	NA	76	NA
39844	Eel	2022-10-18	16:00:00	17.53	7.91	NA	NA	76	NA
39845	Eel	2022-10-18	16:15:00	17.51	7.91	NA	NA	76	NA
39846	Eel	2022-10-18	16:30:00	17.49	7.91	NA	NA	76	NA
39847	Eel	2022-10-18	16:45:00	17.51	7.91	NA	NA	76	NA
39848	Eel	2022-10-18	17:00:00	17.42	7.91	NA	NA	76	NA
39849	Eel	2022-10-18	17:15:00	17.42	7.91	NA	NA	76	NA
39850	Eel	2022-10-18	17:30:00	17.39	7.91	NA	NA	76	NA
39851	Eel	2022-10-18	17:45:00	17.37	7.91	NA	NA	76	NA
39852	Eel	2022-10-18	18:00:00	17.37	7.91	NA	NA	76	NA
39853	Eel	2022-10-18	18:15:00	17.34	7.91	NA	NA	76	NA
39854	Eel	2022-10-18	18:30:00	17.30	7.91	NA	NA	76	NA
39855	Eel	2022-10-18	18:45:00	17.27	7.90	NA	NA	76	NA
39856	Eel	2022-10-18	19:00:00	17.27	7.90	NA	NA	76	NA
39857	Eel	2022-10-18	19:15:00	17.22	7.90	NA	NA	76	NA

39858	Eel	2022-10-18	19:30:00	17.22	7.90	NA	NA	76	NA
39859	Eel	2022-10-18	19:45:00	17.20	7.90	NA	NA	76	NA
39860	Eel	2022-10-18	20:00:00	17.18	7.89	NA	NA	76	NA
39861	Eel	2022-10-18	20:15:00	17.15	7.89	NA	NA	76	NA
39862	Eel	2022-10-18	20:30:00	17.18	7.87	NA	NA	76	NA
39863	Eel	2022-10-18	20:45:00	17.18	7.88	NA	NA	76	NA
39864	Eel	2022-10-18	21:00:00	17.20	7.87	NA	NA	76	NA
39865	Eel	2022-10-18	21:15:00	17.20	7.87	NA	NA	76	NA
39866	Eel	2022-10-18	21:30:00	17.15	7.87	NA	NA	76	NA
39867	Eel	2022-10-18	21:45:00	17.15	7.87	NA	NA	76	NA
39868	Eel	2022-10-18	22:00:00	17.08	7.87	NA	NA	76	NA
39869	Eel	2022-10-18	22:15:00	17.08	7.87	NA	NA	76	NA
39870	Eel	2022-10-18	22:30:00	17.13	7.87	NA	NA	76	NA
39871	Eel	2022-10-18	22:45:00	17.13	7.87	NA	NA	76	NA
39872	Eel	2022-10-18	23:00:00	17.13	7.87	NA	NA	76	NA
39873	Eel	2022-10-18	23:15:00	17.15	7.87	NA	NA	76	NA
39874	Eel	2022-10-18	23:30:00	17.18	7.87	NA	NA	76	NA
39875	Eel	2022-10-18	23:45:00	17.18	7.86	NA	NA	76	NA
39876	Eel	2022-10-19	00:00:00	17.20	7.86	NA	NA	76	NA
39877	Eel	2022-10-19	00:15:00	17.20	7.85	NA	NA	76	NA
39878	Eel	2022-10-19	00:30:00	17.25	7.85	NA	NA	76	NA
39879	Eel	2022-10-19	00:45:00	17.27	7.85	NA	NA	76	NA
39880	Eel	2022-10-19	01:00:00	17.27	7.84	NA	NA	76	NA
39881	Eel	2022-10-19	01:15:00	17.32	7.84	NA	NA	76	NA
39882	Eel	2022-10-19	01:30:00	17.27	7.81	NA	NA	76	NA
39883	Eel	2022-10-19	01:45:00	17.30	7.78	NA	NA	76	NA
39884	Eel	2022-10-19	02:00:00	17.15	7.82	NA	NA	76	NA
39885	Eel	2022-10-19	02:15:00	17.13	7.83	NA	NA	76	NA
39886	Eel	2022-10-19	02:30:00	17.08	7.84	NA	NA	76	NA
39887	Eel	2022-10-19	02:45:00	16.84	7.84	NA	NA	76	NA
39888	Eel	2022-10-19	03:00:00	16.75	7.85	NA	NA	76	NA
39889	Eel	2022-10-19	03:15:00	16.72	7.85	NA	NA	76	NA
39890	Eel	2022-10-19	03:30:00	16.70	7.85	NA	NA	76	NA
39891	Eel	2022-10-19	03:45:00	16.65	7.85	NA	NA	76	NA
39892	Eel	2022-10-19	04:00:00	16.63	7.85	NA	NA	76	NA
39893	Eel	2022-10-19	04:15:00	16.61	7.85	NA	NA	76	NA
39894	Eel	2022-10-19	04:30:00	16.58	7.85	NA	NA	76	NA
39895	Eel	2022-10-19	04:45:00	16.56	7.85	NA	NA	76	NA
39896	Eel	2022-10-19	05:00:00	16.53	7.85	NA	NA	76	NA
39897	Eel	2022-10-19	05:15:00	16.51	7.85	NA	NA	76	NA
39898	Eel	2022-10-19	05:30:00	16.49	7.85	NA	NA	76	NA

39899	Eel	2022-10-19	05:45:00	16.44	7.85	NA	NA	76	NA
39900	Eel	2022-10-19	06:00:00	16.44	7.86	NA	NA	76	NA
39901	Eel	2022-10-19	06:15:00	16.42	7.86	NA	NA	76	NA
39902	Eel	2022-10-19	06:30:00	16.39	7.86	NA	NA	76	NA
39903	Eel	2022-10-19	06:45:00	16.39	7.86	NA	NA	76	NA
39904	Eel	2022-10-19	07:00:00	16.37	7.86	NA	NA	76	NA
39905	Eel	2022-10-19	07:15:00	16.37	7.86	NA	NA	76	NA
39906	Eel	2022-10-19	07:30:00	16.32	7.86	NA	NA	76	NA
39907	Eel	2022-10-19	07:45:00	16.30	7.86	NA	NA	76	NA
39908	Eel	2022-10-19	08:00:00	16.27	7.87	NA	NA	76	NA
39909	Eel	2022-10-19	08:15:00	16.27	7.87	NA	NA	76	NA
39910	Eel	2022-10-19	08:30:00	16.25	7.87	NA	NA	76	NA
39911	Eel	2022-10-19	08:45:00	16.25	7.86	NA	NA	76	NA
39912	Eel	2022-10-19	09:00:00	16.25	7.85	NA	NA	76	NA
39913	Eel	2022-10-19	09:15:00	16.27	7.86	NA	NA	76	NA
39914	Eel	2022-10-19	09:30:00	16.25	7.88	NA	NA	76	NA
39915	Eel	2022-10-19	09:45:00	16.25	7.87	NA	NA	76	NA
39916	Eel	2022-10-19	10:00:00	16.20	7.87	NA	NA	76	NA
39917	Eel	2022-10-19	10:15:00	16.22	7.87	NA	NA	76	NA
39918	Eel	2022-10-19	10:30:00	16.20	7.87	NA	NA	76	NA
39919	Eel	2022-10-19	10:45:00	16.22	7.87	NA	NA	76	NA
39920	Eel	2022-10-19	11:00:00	16.22	7.88	NA	NA	76	NA
39921	Eel	2022-10-19	11:15:00	16.25	7.89	NA	NA	76	NA
39922	Eel	2022-10-19	11:30:00	16.27	7.89	NA	NA	76	NA
39923	Eel	2022-10-19	11:45:00	16.30	7.88	NA	NA	76	NA
39924	Eel	2022-10-19	12:00:00	16.37	7.88	NA	NA	76	NA
39925	Eel	2022-10-19	12:15:00	16.37	7.88	NA	NA	76	NA
39926	Eel	2022-10-19	12:30:00	16.42	7.88	NA	NA	76	NA
39927	Eel	2022-10-19	12:45:00	16.51	7.88	NA	NA	76	NA
39928	Eel	2022-10-19	13:00:00	16.58	7.88	NA	NA	76	NA
39929	Eel	2022-10-19	13:15:00	16.61	7.87	NA	NA	76	NA
39930	Eel	2022-10-19	13:30:00	16.51	7.88	NA	NA	76	NA
39931	Eel	2022-10-19	13:45:00	16.53	7.87	NA	NA	76	NA
39932	Eel	2022-10-19	14:00:00	16.51	7.88	NA	NA	76	NA
39933	Eel	2022-10-19	14:15:00	16.65	7.88	NA	NA	76	NA
39934	Eel	2022-10-19	14:30:00	16.70	7.89	NA	NA	76	NA
39935	Eel	2022-10-19	14:45:00	16.58	7.90	NA	NA	76	NA
39936	Eel	2022-10-19	15:00:00	16.44	7.93	NA	NA	76	NA
39937	Eel	2022-10-19	15:15:00	16.34	7.94	NA	NA	76	NA
39938	Eel	2022-10-19	15:30:00	16.32	7.94	NA	NA	76	NA
39939	Eel	2022-10-19	15:45:00	16.30	7.94	NA	NA	76	NA

39940	Eel	2022-10-19	16:00:00	16.30	7.94	NA	NA	76	NA
39941	Eel	2022-10-19	16:15:00	16.25	7.94	NA	NA	76	NA
39942	Eel	2022-10-19	16:30:00	16.20	7.94	NA	NA	76	NA
39943	Eel	2022-10-19	16:45:00	16.20	7.93	NA	NA	76	NA
39944	Eel	2022-10-19	17:00:00	16.18	7.93	NA	NA	76	NA
39945	Eel	2022-10-19	17:15:00	16.13	7.94	NA	NA	76	NA
39946	Eel	2022-10-19	17:30:00	16.11	7.93	NA	NA	76	NA
39947	Eel	2022-10-19	17:45:00	16.06	7.93	NA	NA	76	NA
39948	Eel	2022-10-19	18:00:00	16.01	7.94	NA	NA	76	NA
39949	Eel	2022-10-19	18:15:00	16.01	7.93	NA	NA	76	NA
39950	Eel	2022-10-19	18:30:00	15.94	7.93	NA	NA	76	NA
39951	Eel	2022-10-19	18:45:00	15.94	7.93	NA	NA	76	NA
39952	Eel	2022-10-19	19:00:00	15.89	7.93	NA	NA	76	NA
39953	Eel	2022-10-19	19:15:00	15.89	7.93	NA	NA	76	NA
39954	Eel	2022-10-19	19:30:00	15.87	7.93	NA	NA	76	NA
39955	Eel	2022-10-19	19:45:00	15.82	7.93	NA	NA	76	NA
39956	Eel	2022-10-19	20:00:00	15.82	7.93	NA	NA	76	NA
39957	Eel	2022-10-19	20:15:00	15.80	7.93	NA	NA	76	NA
39958	Eel	2022-10-19	20:30:00	15.77	7.93	NA	NA	76	NA
39959	Eel	2022-10-19	20:45:00	15.77	7.91	NA	NA	76	NA
39960	Eel	2022-10-19	21:00:00	15.72	7.89	NA	NA	76	NA
39961	Eel	2022-10-19	21:15:00	15.65	7.90	NA	NA	76	NA
39962	Eel	2022-10-19	21:30:00	15.60	7.90	NA	NA	76	NA
39963	Eel	2022-10-19	21:45:00	15.56	7.89	NA	NA	76	NA
39964	Eel	2022-10-19	22:00:00	15.46	7.90	NA	NA	76	NA
39965	Eel	2022-10-19	22:15:00	15.51	7.90	NA	NA	76	NA
39966	Eel	2022-10-19	22:30:00	15.46	7.89	NA	NA	76	NA
39967	Eel	2022-10-19	22:45:00	15.49	7.89	NA	NA	76	NA
39968	Eel	2022-10-19	23:00:00	15.46	7.89	NA	NA	76	NA
39969	Eel	2022-10-19	23:15:00	15.44	7.90	NA	NA	76	NA
39970	Eel	2022-10-19	23:30:00	15.49	7.88	NA	NA	76	NA
39971	Eel	2022-10-19	23:45:00	15.51	7.89	NA	NA	76	NA
39972	Eel	2022-10-20	00:00:00	15.56	7.88	NA	NA	76	NA
39973	Eel	2022-10-20	00:15:00	15.60	7.88	NA	NA	76	NA
39974	Eel	2022-10-20	00:30:00	15.58	7.87	NA	NA	76	NA
39975	Eel	2022-10-20	00:45:00	15.60	7.86	NA	NA	76	NA
39976	Eel	2022-10-20	01:00:00	15.60	7.86	NA	NA	76	NA
39977	Eel	2022-10-20	01:15:00	15.58	7.85	NA	NA	76	NA
39978	Eel	2022-10-20	01:30:00	15.58	7.85	NA	NA	76	NA
39979	Eel	2022-10-20	01:45:00	15.58	7.84	NA	NA	76	NA
39980	Eel	2022-10-20	02:00:00	15.56	7.83	NA	NA	76	NA

39981	Eel	2022-10-20	02:15:00	15.60	7.83	NA	NA	76	NA
39982	Eel	2022-10-20	02:30:00	15.58	7.82	NA	NA	76	NA
39983	Eel	2022-10-20	02:45:00	15.53	7.81	NA	NA	76	NA
39984	Eel	2022-10-20	03:00:00	15.41	7.84	NA	NA	76	NA
39985	Eel	2022-10-20	03:15:00	15.44	7.84	NA	NA	76	NA
39986	Eel	2022-10-20	03:30:00	15.32	7.86	NA	NA	76	NA
39987	Eel	2022-10-20	03:45:00	15.27	7.88	NA	NA	76	NA
39988	Eel	2022-10-20	04:00:00	15.25	7.88	NA	NA	76	NA
39989	Eel	2022-10-20	04:15:00	15.22	7.88	NA	NA	76	NA
39990	Eel	2022-10-20	04:30:00	15.17	7.88	NA	NA	76	NA
39991	Eel	2022-10-20	04:45:00	15.17	7.88	NA	NA	76	NA
39992	Eel	2022-10-20	05:00:00	15.17	7.89	NA	NA	76	NA
39993	Eel	2022-10-20	05:15:00	15.15	7.89	NA	NA	76	NA
39994	Eel	2022-10-20	05:30:00	15.10	7.89	NA	NA	76	NA
39995	Eel	2022-10-20	05:45:00	15.08	7.89	NA	NA	76	NA
39996	Eel	2022-10-20	06:00:00	15.03	7.88	NA	NA	76	NA
39997	Eel	2022-10-20	06:15:00	15.03	7.88	NA	NA	76	NA
39998	Eel	2022-10-20	06:30:00	14.94	7.86	NA	NA	76	NA
39999	Eel	2022-10-20	06:45:00	14.91	7.83	NA	NA	76	NA
40000	Eel	2022-10-20	07:00:00	14.91	7.82	NA	NA	76	NA
40001	Eel	2022-10-20	07:15:00	14.86	7.83	NA	NA	76	NA
40002	Eel	2022-10-20	07:30:00	14.84	7.84	NA	NA	76	NA
40003	Eel	2022-10-20	07:45:00	14.82	7.87	NA	NA	76	NA
40004	Eel	2022-10-20	08:00:00	14.86	7.88	NA	NA	76	NA
40005	Eel	2022-10-20	08:15:00	14.82	7.88	NA	NA	76	NA
40006	Eel	2022-10-20	08:30:00	14.77	7.89	NA	NA	76	NA
40007	Eel	2022-10-20	08:45:00	14.82	7.90	NA	NA	76	NA
40008	Eel	2022-10-20	09:00:00	14.86	7.90	NA	NA	76	NA
40009	Eel	2022-10-20	09:15:00	14.96	7.91	NA	NA	76	NA
40010	Eel	2022-10-20	09:30:00	14.98	7.88	NA	NA	76	NA
40011	Eel	2022-10-20	09:45:00	15.03	7.90	NA	NA	76	NA
40012	Eel	2022-10-20	10:00:00	15.06	7.92	NA	NA	76	NA
40013	Eel	2022-10-20	10:15:00	15.08	7.91	NA	NA	76	NA
40014	Eel	2022-10-20	10:30:00	15.08	7.92	NA	NA	76	NA
40015	Eel	2022-10-20	10:45:00	15.08	7.93	NA	NA	76	NA
40016	Eel	2022-10-20	11:00:00	15.13	7.92	NA	NA	76	NA
40017	Eel	2022-10-20	11:15:00	15.20	7.92	NA	NA	76	NA
40018	Eel	2022-10-20	11:30:00	15.15	7.91	NA	NA	76	NA
40019	Eel	2022-10-20	11:45:00	15.17	7.91	NA	NA	76	NA
40020	Eel	2022-10-20	12:00:00	15.15	7.90	NA	NA	76	NA
40021	Eel	2022-10-20	12:15:00	15.17	7.91	NA	NA	76	NA

40022	Eel	2022-10-20	12:30:00	15.22	7.91	NA	NA	76	NA
40023	Eel	2022-10-20	12:45:00	15.22	7.91	NA	NA	76	NA
40024	Eel	2022-10-20	13:00:00	15.27	7.91	NA	NA	76	NA
40025	Eel	2022-10-20	13:15:00	15.39	7.92	NA	NA	76	NA
40026	Eel	2022-10-20	13:30:00	15.49	7.91	NA	NA	76	NA
40027	Eel	2022-10-20	13:45:00	15.53	7.91	NA	NA	76	NA
40028	Eel	2022-10-20	14:00:00	15.60	7.91	NA	NA	76	NA
40029	Eel	2022-10-20	14:15:00	15.70	7.92	NA	NA	76	NA
40030	Eel	2022-10-20	14:30:00	15.82	7.94	NA	NA	76	NA
40031	Eel	2022-10-20	14:45:00	15.82	7.93	NA	NA	76	NA
40032	Eel	2022-10-20	15:00:00	15.80	7.94	NA	NA	76	NA
40033	Eel	2022-10-20	15:15:00	15.80	7.95	NA	NA	76	NA
40034	Eel	2022-10-20	15:30:00	15.56	7.93	NA	NA	76	NA
40035	Eel	2022-10-20	15:45:00	15.65	7.94	NA	NA	76	NA
40036	Eel	2022-10-20	16:00:00	15.39	7.97	NA	NA	76	NA
40037	Eel	2022-10-20	16:15:00	15.34	7.97	NA	NA	76	NA
40038	Eel	2022-10-20	16:30:00	15.32	7.97	NA	NA	76	NA
40039	Eel	2022-10-20	16:45:00	15.29	7.97	NA	NA	76	NA
40040	Eel	2022-10-20	17:00:00	15.29	7.97	NA	NA	76	NA
40041	Eel	2022-10-20	17:15:00	15.27	7.97	NA	NA	76	NA
40042	Eel	2022-10-20	17:30:00	15.25	7.97	NA	NA	76	NA
40043	Eel	2022-10-20	17:45:00	15.20	7.96	NA	NA	76	NA
40044	Eel	2022-10-20	18:00:00	15.17	7.96	NA	NA	76	NA
40045	Eel	2022-10-20	18:15:00	15.15	7.96	NA	NA	76	NA
40046	Eel	2022-10-20	18:30:00	15.13	7.96	NA	NA	76	NA
40047	Eel	2022-10-20	18:45:00	15.10	7.96	NA	NA	76	NA
40048	Eel	2022-10-20	19:00:00	15.06	7.96	NA	NA	76	NA
40049	Eel	2022-10-20	19:15:00	15.03	7.95	NA	NA	76	NA
40050	Eel	2022-10-20	19:30:00	14.98	7.95	NA	NA	76	NA
40051	Eel	2022-10-20	19:45:00	15.01	7.95	NA	NA	76	NA
40052	Eel	2022-10-20	20:00:00	14.98	7.95	NA	NA	76	NA
40053	Eel	2022-10-20	20:15:00	14.96	7.95	NA	NA	76	NA
40054	Eel	2022-10-20	20:30:00	14.94	7.94	NA	NA	76	NA
40055	Eel	2022-10-20	20:45:00	14.94	7.95	NA	NA	76	NA
40056	Eel	2022-10-20	21:00:00	14.91	7.95	NA	NA	76	NA
40057	Eel	2022-10-20	21:15:00	14.86	7.95	NA	NA	76	NA
40058	Eel	2022-10-20	21:30:00	14.79	7.93	NA	NA	76	NA
40059	Eel	2022-10-20	21:45:00	14.77	7.93	NA	NA	76	NA
40060	Eel	2022-10-20	22:00:00	14.82	7.92	NA	NA	76	NA
40061	Eel	2022-10-20	22:15:00	14.82	7.92	NA	NA	76	NA
40062	Eel	2022-10-20	22:30:00	14.82	7.90	NA	NA	76	NA

40063	Eel	2022-10-20	22:45:00	14.77	7.90	NA	NA	76	NA
40064	Eel	2022-10-20	23:00:00	14.72	7.90	NA	NA	76	NA
40065	Eel	2022-10-20	23:15:00	14.60	7.90	NA	NA	76	NA
40066	Eel	2022-10-20	23:30:00	14.53	7.91	NA	NA	76	NA
40067	Eel	2022-10-20	23:45:00	14.53	7.91	NA	NA	76	NA
40068	Eel	2022-10-21	00:00:00	14.51	7.91	NA	NA	76	NA
40069	Eel	2022-10-21	00:15:00	14.46	7.91	NA	NA	76	NA
40070	Eel	2022-10-21	00:30:00	14.39	7.91	NA	NA	76	NA
40071	Eel	2022-10-21	00:45:00	14.36	7.91	NA	NA	76	NA
40072	Eel	2022-10-21	01:00:00	14.36	7.91	NA	NA	76	NA
40073	Eel	2022-10-21	01:15:00	14.39	7.90	NA	NA	76	NA
40074	Eel	2022-10-21	01:30:00	14.41	7.89	NA	NA	76	NA
40075	Eel	2022-10-21	01:45:00	14.41	7.89	NA	NA	76	NA
40076	Eel	2022-10-21	02:00:00	14.43	7.88	NA	NA	76	NA
40077	Eel	2022-10-21	02:15:00	14.41	7.87	NA	NA	76	NA
40078	Eel	2022-10-21	02:30:00	14.41	7.86	NA	NA	76	NA
40079	Eel	2022-10-21	02:45:00	14.39	7.85	NA	NA	76	NA
40080	Eel	2022-10-21	03:00:00	14.39	7.84	NA	NA	76	NA
40081	Eel	2022-10-21	03:15:00	14.36	7.82	NA	NA	76	NA
40082	Eel	2022-10-21	03:30:00	14.31	7.83	NA	NA	76	NA
40083	Eel	2022-10-21	03:45:00	14.29	7.84	NA	NA	76	NA
40084	Eel	2022-10-21	04:00:00	14.31	7.85	NA	NA	76	NA
40085	Eel	2022-10-21	04:15:00	14.31	7.86	NA	NA	76	NA
40086	Eel	2022-10-21	04:30:00	14.22	7.88	NA	NA	76	NA
40087	Eel	2022-10-21	04:45:00	14.22	7.90	NA	NA	76	NA
40088	Eel	2022-10-21	05:00:00	14.29	7.91	NA	NA	76	NA
40089	Eel	2022-10-21	05:15:00	14.39	7.91	NA	NA	76	NA
40090	Eel	2022-10-21	05:30:00	14.39	7.91	NA	NA	76	NA
40091	Eel	2022-10-21	05:45:00	14.41	7.91	NA	NA	76	NA
40092	Eel	2022-10-21	06:00:00	14.41	7.91	NA	NA	76	NA
40093	Eel	2022-10-21	06:15:00	14.41	7.91	NA	NA	76	NA
40094	Eel	2022-10-21	06:30:00	14.39	7.91	NA	NA	76	NA
40095	Eel	2022-10-21	06:45:00	14.36	7.91	NA	NA	76	NA
40096	Eel	2022-10-21	07:00:00	14.36	7.91	NA	NA	76	NA
40097	Eel	2022-10-21	07:15:00	14.34	7.90	NA	NA	76	NA
40098	Eel	2022-10-21	07:30:00	14.34	7.88	NA	NA	76	NA
40099	Eel	2022-10-21	07:45:00	14.31	7.86	NA	NA	76	NA
40100	Eel	2022-10-21	08:00:00	14.29	7.87	NA	NA	76	NA
40101	Eel	2022-10-21	08:15:00	14.15	7.89	NA	NA	76	NA
40102	Eel	2022-10-21	08:30:00	14.27	7.90	NA	NA	76	NA
40103	Eel	2022-10-21	08:45:00	14.34	7.91	NA	NA	76	NA

40104	Eel	2022-10-21	09:00:00	14.41	7.92	NA	NA	76	NA
40105	Eel	2022-10-21	09:15:00	14.53	7.92	NA	NA	76	NA
40106	Eel	2022-10-21	09:30:00	14.55	7.93	NA	NA	76	NA
40107	Eel	2022-10-21	09:45:00	14.65	7.94	NA	NA	76	NA
40108	Eel	2022-10-21	10:00:00	14.72	7.94	NA	NA	76	NA
40109	Eel	2022-10-21	10:15:00	14.77	7.94	NA	NA	76	NA
40110	Eel	2022-10-21	10:30:00	14.79	7.94	NA	NA	76	NA
40111	Eel	2022-10-21	10:45:00	14.84	7.93	NA	NA	76	NA
40112	Eel	2022-10-21	11:00:00	14.89	7.93	NA	NA	76	NA
40113	Eel	2022-10-21	11:15:00	14.89	7.92	NA	NA	76	NA
40114	Eel	2022-10-21	11:30:00	14.86	7.90	NA	NA	76	NA
40115	Eel	2022-10-21	11:45:00	14.79	7.89	NA	NA	76	NA
40116	Eel	2022-10-21	12:00:00	14.82	7.87	NA	NA	76	NA
40117	Eel	2022-10-21	12:15:00	14.86	7.87	NA	NA	76	NA
40118	Eel	2022-10-21	12:30:00	14.94	7.88	NA	NA	76	NA
40119	Eel	2022-10-21	12:45:00	15.08	7.89	NA	NA	76	NA
40120	Eel	2022-10-21	13:00:00	15.17	7.90	NA	NA	76	NA
40121	Eel	2022-10-21	13:15:00	15.29	7.91	NA	NA	76	NA
40122	Eel	2022-10-21	13:30:00	15.34	7.92	NA	NA	76	NA
40123	Eel	2022-10-21	13:45:00	15.39	7.92	NA	NA	76	NA
40124	Eel	2022-10-21	14:00:00	15.41	7.92	NA	NA	76	NA
40125	Eel	2022-10-21	14:15:00	15.46	7.94	NA	NA	76	NA
40126	Eel	2022-10-21	14:30:00	15.53	7.95	NA	NA	76	NA
40127	Eel	2022-10-21	14:45:00	15.49	7.94	NA	NA	76	NA
40128	Eel	2022-10-21	15:00:00	15.44	7.91	NA	NA	76	NA
40129	Eel	2022-10-21	15:15:00	15.37	7.89	NA	NA	76	NA
40130	Eel	2022-10-21	15:30:00	15.29	7.89	NA	NA	76	NA
40131	Eel	2022-10-21	15:45:00	15.29	7.87	NA	NA	76	NA
40132	Eel	2022-10-21	16:00:00	15.49	7.91	NA	NA	76	NA
40133	Eel	2022-10-21	16:15:00	15.51	7.92	NA	NA	76	NA
40134	Eel	2022-10-21	16:30:00	15.51	7.95	NA	NA	76	NA
40135	Eel	2022-10-21	16:45:00	15.70	7.99	NA	NA	76	NA
40136	Eel	2022-10-21	17:00:00	15.68	7.99	NA	NA	76	NA
40137	Eel	2022-10-21	17:15:00	15.65	7.99	NA	NA	76	NA
40138	Eel	2022-10-21	17:30:00	15.65	7.98	NA	NA	76	NA
40139	Eel	2022-10-21	17:45:00	15.65	7.97	NA	NA	76	NA
40140	Eel	2022-10-21	18:00:00	15.63	7.97	NA	NA	76	NA
40141	Eel	2022-10-21	18:15:00	15.65	7.97	NA	NA	76	NA
40142	Eel	2022-10-21	18:30:00	15.65	7.97	NA	NA	76	NA
40143	Eel	2022-10-21	18:45:00	15.63	7.97	NA	NA	76	NA
40144	Eel	2022-10-21	19:00:00	15.63	7.97	NA	NA	76	NA

40145	Eel	2022-10-21	19:15:00	15.60	7.97	NA	NA	76	NA
40146	Eel	2022-10-21	19:30:00	15.56	7.97	NA	NA	76	NA
40147	Eel	2022-10-21	19:45:00	15.56	7.97	NA	NA	76	NA
40148	Eel	2022-10-21	20:00:00	15.53	7.96	NA	NA	76	NA
40149	Eel	2022-10-21	20:15:00	15.51	7.95	NA	NA	76	NA
40150	Eel	2022-10-21	20:30:00	15.51	7.93	NA	NA	76	NA
40151	Eel	2022-10-21	20:45:00	15.46	7.91	NA	NA	76	NA
40152	Eel	2022-10-21	21:00:00	15.41	7.90	NA	NA	76	NA
40153	Eel	2022-10-21	21:15:00	15.34	7.91	NA	NA	76	NA
40154	Eel	2022-10-21	21:30:00	15.27	7.93	NA	NA	76	NA
40155	Eel	2022-10-21	21:45:00	15.15	7.95	NA	NA	76	NA
40156	Eel	2022-10-21	22:00:00	15.15	7.94	NA	NA	76	NA
40157	Eel	2022-10-21	22:15:00	15.22	7.94	NA	NA	76	NA
40158	Eel	2022-10-21	22:30:00	15.34	7.93	NA	NA	76	NA
40159	Eel	2022-10-21	22:45:00	15.27	7.92	NA	NA	76	NA
40160	Eel	2022-10-21	23:00:00	15.20	7.90	NA	NA	76	NA
40161	Eel	2022-10-21	23:15:00	15.27	7.91	NA	NA	76	NA
40162	Eel	2022-10-21	23:30:00	15.22	7.91	NA	NA	76	NA
40163	Eel	2022-10-21	23:45:00	15.25	7.89	NA	NA	76	NA
40164	Eel	2022-10-22	00:00:00	15.15	7.90	NA	NA	76	NA
40165	Eel	2022-10-22	00:15:00	14.98	7.90	NA	NA	76	NA
40166	Eel	2022-10-22	00:30:00	14.98	7.89	NA	NA	76	NA
40167	Eel	2022-10-22	00:45:00	14.98	7.88	NA	NA	76	NA
40168	Eel	2022-10-22	01:00:00	14.98	7.90	NA	NA	76	NA
40169	Eel	2022-10-22	01:15:00	14.89	7.89	NA	NA	76	NA
40170	Eel	2022-10-22	01:30:00	14.89	7.90	NA	NA	76	NA
40171	Eel	2022-10-22	01:45:00	14.84	7.91	NA	NA	76	NA
40172	Eel	2022-10-22	02:00:00	14.60	7.91	NA	NA	76	NA
40173	Eel	2022-10-22	02:15:00	14.31	7.90	NA	NA	76	NA
40174	Eel	2022-10-22	02:30:00	14.46	7.88	NA	NA	76	NA
40175	Eel	2022-10-22	02:45:00	14.51	7.89	NA	NA	76	NA
40176	Eel	2022-10-22	03:00:00	14.53	7.88	NA	NA	76	NA
40177	Eel	2022-10-22	03:15:00	14.43	7.88	NA	NA	76	NA
40178	Eel	2022-10-22	03:30:00	14.48	7.86	NA	NA	76	NA
40179	Eel	2022-10-22	03:45:00	14.24	7.85	NA	NA	76	NA
40180	Eel	2022-10-22	04:00:00	14.24	7.83	NA	NA	76	NA
40181	Eel	2022-10-22	04:15:00	14.10	7.78	NA	NA	76	NA
40182	Eel	2022-10-22	04:30:00	14.00	7.75	NA	NA	76	NA
40183	Eel	2022-10-22	04:45:00	14.34	7.84	NA	NA	76	NA
40184	Eel	2022-10-22	05:00:00	14.60	7.87	NA	NA	76	NA
40185	Eel	2022-10-22	05:15:00	14.77	7.91	NA	NA	76	NA

40186	Eel	2022-10-22	05:30:00	14.86	7.91	NA	NA	76	NA
40187	Eel	2022-10-22	05:45:00	14.86	7.91	NA	NA	76	NA
40188	Eel	2022-10-22	06:00:00	14.89	7.91	NA	NA	76	NA
40189	Eel	2022-10-22	06:15:00	14.89	7.91	NA	NA	76	NA
40190	Eel	2022-10-22	06:30:00	14.91	7.92	NA	NA	76	NA
40191	Eel	2022-10-22	06:45:00	14.91	7.92	NA	NA	76	NA
40192	Eel	2022-10-22	07:00:00	14.94	7.92	NA	NA	76	NA
40193	Eel	2022-10-22	07:15:00	14.94	7.92	NA	NA	76	NA
40194	Eel	2022-10-22	07:30:00	14.96	7.92	NA	NA	76	NA
40195	Eel	2022-10-22	07:45:00	14.96	7.92	NA	NA	76	NA
40196	Eel	2022-10-22	08:00:00	14.96	7.92	NA	NA	76	NA
40197	Eel	2022-10-22	08:15:00	14.98	7.93	NA	NA	76	NA
40198	Eel	2022-10-22	08:30:00	14.96	7.93	NA	NA	76	NA
40199	Eel	2022-10-22	08:45:00	14.98	7.92	NA	NA	76	NA
40200	Eel	2022-10-22	09:00:00	14.96	7.92	NA	NA	76	NA
40201	Eel	2022-10-22	09:15:00	14.96	7.90	NA	NA	76	NA
40202	Eel	2022-10-22	09:30:00	15.01	7.92	NA	NA	76	NA
40203	Eel	2022-10-22	09:45:00	15.06	7.93	NA	NA	76	NA
40204	Eel	2022-10-22	10:00:00	15.06	7.94	NA	NA	76	NA
40205	Eel	2022-10-22	10:15:00	15.13	7.95	NA	NA	76	NA
40206	Eel	2022-10-22	10:30:00	15.20	7.95	NA	NA	76	NA
40207	Eel	2022-10-22	10:45:00	15.22	7.95	NA	NA	76	NA
40208	Eel	2022-10-22	11:00:00	15.29	7.95	NA	NA	76	NA
40209	Eel	2022-10-22	11:15:00	15.37	7.94	NA	NA	76	NA
40210	Eel	2022-10-22	11:30:00	15.51	7.97	NA	NA	76	NA
40211	Eel	2022-10-22	11:45:00	15.70	7.98	NA	NA	76	NA
40212	Eel	2022-10-22	12:00:00	15.68	7.97	NA	NA	76	NA
40213	Eel	2022-10-22	12:15:00	15.68	7.95	NA	NA	76	NA
40214	Eel	2022-10-22	12:30:00	15.56	7.92	NA	NA	76	NA
40215	Eel	2022-10-22	12:45:00	15.56	7.92	NA	NA	76	NA
40216	Eel	2022-10-22	13:00:00	15.63	7.94	NA	NA	76	NA
40217	Eel	2022-10-22	13:15:00	15.63	7.93	NA	NA	76	NA
40218	Eel	2022-10-22	13:30:00	15.63	7.92	NA	NA	76	NA
40219	Eel	2022-10-22	13:45:00	15.65	7.92	NA	NA	76	NA
40220	Eel	2022-10-22	14:00:00	15.63	7.90	NA	NA	76	NA
40221	Eel	2022-10-22	14:15:00	15.65	7.91	NA	NA	76	NA
40222	Eel	2022-10-22	14:30:00	15.68	7.91	NA	NA	76	NA
40223	Eel	2022-10-22	14:45:00	15.75	7.91	NA	NA	76	NA
40224	Eel	2022-10-22	15:00:00	15.82	7.89	NA	NA	76	NA
40225	Eel	2022-10-22	15:15:00	15.87	7.90	NA	NA	76	NA
40226	Eel	2022-10-22	15:30:00	15.87	7.91	NA	NA	76	NA

40227	Eel	2022-10-22	15:45:00	15.87	7.89	NA	NA	76	NA
40228	Eel	2022-10-22	16:00:00	15.82	7.89	NA	NA	76	NA
40229	Eel	2022-10-22	16:15:00	15.84	7.89	NA	NA	76	NA
40230	Eel	2022-10-22	16:30:00	15.99	7.91	NA	NA	76	NA
40231	Eel	2022-10-22	16:45:00	15.94	7.93	NA	NA	76	NA
40232	Eel	2022-10-22	17:00:00	15.96	7.93	NA	NA	76	NA
40233	Eel	2022-10-22	17:15:00	15.94	7.97	NA	NA	76	NA
40234	Eel	2022-10-22	17:30:00	15.91	7.98	NA	NA	76	NA
40235	Eel	2022-10-22	17:45:00	15.87	7.98	NA	NA	76	NA
40236	Eel	2022-10-22	18:00:00	15.77	7.97	NA	NA	76	NA
40237	Eel	2022-10-22	18:15:00	15.80	7.97	NA	NA	76	NA
40238	Eel	2022-10-22	18:30:00	15.77	7.97	NA	NA	76	NA
40239	Eel	2022-10-22	18:45:00	15.77	7.97	NA	NA	76	NA
40240	Eel	2022-10-22	19:00:00	15.80	7.97	NA	NA	76	NA
40241	Eel	2022-10-22	19:15:00	15.80	7.97	NA	NA	76	NA
40242	Eel	2022-10-22	19:30:00	15.77	7.97	NA	NA	76	NA
40243	Eel	2022-10-22	19:45:00	15.75	7.97	NA	NA	76	NA
40244	Eel	2022-10-22	20:00:00	15.75	7.97	NA	NA	76	NA
40245	Eel	2022-10-22	20:15:00	15.75	7.97	NA	NA	76	NA
40246	Eel	2022-10-22	20:30:00	15.72	7.96	NA	NA	76	NA
40247	Eel	2022-10-22	20:45:00	15.70	7.96	NA	NA	76	NA
40248	Eel	2022-10-22	21:00:00	15.68	7.97	NA	NA	76	NA
40249	Eel	2022-10-22	21:15:00	15.68	7.96	NA	NA	76	NA
40250	Eel	2022-10-22	21:30:00	15.65	7.94	NA	NA	76	NA
40251	Eel	2022-10-22	21:45:00	15.65	7.87	NA	NA	76	NA
40252	Eel	2022-10-22	22:00:00	15.56	7.84	NA	NA	76	NA
40253	Eel	2022-10-22	22:15:00	15.51	7.93	NA	NA	76	NA
40254	Eel	2022-10-22	22:30:00	15.56	7.95	NA	NA	76	NA
40255	Eel	2022-10-22	22:45:00	15.56	7.95	NA	NA	76	NA
40256	Eel	2022-10-22	23:00:00	15.53	7.95	NA	NA	76	NA
40257	Eel	2022-10-22	23:15:00	15.53	7.94	NA	NA	76	NA
40258	Eel	2022-10-22	23:30:00	15.53	7.93	NA	NA	76	NA
40259	Eel	2022-10-22	23:45:00	15.53	7.86	NA	NA	76	NA
40260	Eel	2022-10-23	00:00:00	15.29	7.90	NA	NA	76	NA
40261	Eel	2022-10-23	00:15:00	15.22	7.90	NA	NA	76	NA
40262	Eel	2022-10-23	00:30:00	15.32	7.90	NA	NA	76	NA
40263	Eel	2022-10-23	00:45:00	15.27	7.90	NA	NA	76	NA
40264	Eel	2022-10-23	01:00:00	15.25	7.90	NA	NA	76	NA
40265	Eel	2022-10-23	01:15:00	15.29	7.89	NA	NA	76	NA
40266	Eel	2022-10-23	01:30:00	15.32	7.88	NA	NA	76	NA
40267	Eel	2022-10-23	01:45:00	15.27	7.88	NA	NA	76	NA

40268	Eel	2022-10-23	02:00:00	15.27	7.87	NA	NA	76	NA
40269	Eel	2022-10-23	02:15:00	15.29	7.88	NA	NA	76	NA
40270	Eel	2022-10-23	02:30:00	15.27	7.87	NA	NA	76	NA
40271	Eel	2022-10-23	02:45:00	15.32	7.88	NA	NA	76	NA
40272	Eel	2022-10-23	03:00:00	15.34	7.88	NA	NA	76	NA
40273	Eel	2022-10-23	03:15:00	15.34	7.87	NA	NA	76	NA
40274	Eel	2022-10-23	03:30:00	15.34	7.88	NA	NA	76	NA
40275	Eel	2022-10-23	03:45:00	15.32	7.87	NA	NA	76	NA
40276	Eel	2022-10-23	04:00:00	15.27	7.86	NA	NA	76	NA
40277	Eel	2022-10-23	04:15:00	15.22	7.86	NA	NA	76	NA
40278	Eel	2022-10-23	04:30:00	15.20	7.83	NA	NA	76	NA
40279	Eel	2022-10-23	04:45:00	15.17	7.82	NA	NA	76	NA
40280	Eel	2022-10-23	05:00:00	15.22	7.85	NA	NA	76	NA
40281	Eel	2022-10-23	05:15:00	15.32	7.87	NA	NA	76	NA
40282	Eel	2022-10-23	05:30:00	15.32	7.90	NA	NA	76	NA
40283	Eel	2022-10-23	05:45:00	15.34	7.91	NA	NA	76	NA
40284	Eel	2022-10-23	06:00:00	15.29	7.91	NA	NA	76	NA
40285	Eel	2022-10-23	06:15:00	15.27	7.91	NA	NA	76	NA
40286	Eel	2022-10-23	06:30:00	15.29	7.91	NA	NA	76	NA
40287	Eel	2022-10-23	06:45:00	15.29	7.92	NA	NA	76	NA
40288	Eel	2022-10-23	07:00:00	15.29	7.92	NA	NA	76	NA
40289	Eel	2022-10-23	07:15:00	15.29	7.92	NA	NA	76	NA
40290	Eel	2022-10-23	07:30:00	15.32	7.92	NA	NA	76	NA
40291	Eel	2022-10-23	07:45:00	15.34	7.92	NA	NA	76	NA
40292	Eel	2022-10-23	08:00:00	15.34	7.92	NA	NA	76	NA
40293	Eel	2022-10-23	08:15:00	15.39	7.92	NA	NA	76	NA
40294	Eel	2022-10-23	08:30:00	15.41	7.93	NA	NA	76	NA
40295	Eel	2022-10-23	08:45:00	15.41	7.93	NA	NA	76	NA
40296	Eel	2022-10-23	09:00:00	15.39	7.92	NA	NA	76	NA
40297	Eel	2022-10-23	09:15:00	15.44	7.93	NA	NA	76	NA
40298	Eel	2022-10-23	09:30:00	15.41	7.91	NA	NA	76	NA
40299	Eel	2022-10-23	09:45:00	15.39	7.88	NA	NA	76	NA
40300	Eel	2022-10-23	10:00:00	15.41	7.88	NA	NA	76	NA
40301	Eel	2022-10-23	10:15:00	15.46	7.87	NA	NA	76	NA
40302	Eel	2022-10-23	10:30:00	15.44	7.87	NA	NA	76	NA
40303	Eel	2022-10-23	10:45:00	15.41	7.87	NA	NA	76	NA
40304	Eel	2022-10-23	11:00:00	15.49	7.90	NA	NA	76	NA
40305	Eel	2022-10-23	11:15:00	15.58	7.93	NA	NA	76	NA
40306	Eel	2022-10-23	11:30:00	15.53	7.91	NA	NA	76	NA
40307	Eel	2022-10-23	11:45:00	15.51	7.94	NA	NA	76	NA
40308	Eel	2022-10-23	12:00:00	15.46	7.91	NA	NA	76	NA

40309	Eel	2022-10-23	12:15:00	15.37	7.86	NA	NA	76	NA
40310	Eel	2022-10-23	12:30:00	15.39	7.88	NA	NA	76	NA
40311	Eel	2022-10-23	12:45:00	15.39	7.87	NA	NA	76	NA
40312	Eel	2022-10-23	13:00:00	15.37	7.90	NA	NA	76	NA
40313	Eel	2022-10-23	13:15:00	15.37	7.89	NA	NA	76	NA
40314	Eel	2022-10-23	13:30:00	15.34	7.88	NA	NA	76	NA
40315	Eel	2022-10-23	13:45:00	15.32	7.88	NA	NA	76	NA
40316	Eel	2022-10-23	14:00:00	15.32	7.87	NA	NA	76	NA
40317	Eel	2022-10-23	14:15:00	15.37	7.88	NA	NA	76	NA
40318	Eel	2022-10-23	14:30:00	15.39	7.89	NA	NA	76	NA
40319	Eel	2022-10-23	14:45:00	15.41	7.91	NA	NA	76	NA
40320	Eel	2022-10-23	15:00:00	15.41	7.90	NA	NA	76	NA
40321	Eel	2022-10-23	15:15:00	15.46	7.91	NA	NA	76	NA
40322	Eel	2022-10-23	15:30:00	15.46	7.90	NA	NA	76	NA
40323	Eel	2022-10-23	15:45:00	15.46	7.90	NA	NA	76	NA
40324	Eel	2022-10-23	16:00:00	15.44	7.89	NA	NA	76	NA
40325	Eel	2022-10-23	16:15:00	15.41	7.89	NA	NA	76	NA
40326	Eel	2022-10-23	16:30:00	15.41	7.89	NA	NA	76	NA
40327	Eel	2022-10-23	16:45:00	15.41	7.90	NA	NA	76	NA
40328	Eel	2022-10-23	17:00:00	15.39	7.90	NA	NA	76	NA
40329	Eel	2022-10-23	17:15:00	15.37	7.90	NA	NA	76	NA
40330	Eel	2022-10-23	17:30:00	15.39	7.89	NA	NA	76	NA
40331	Eel	2022-10-23	17:45:00	15.49	7.89	NA	NA	76	NA
40332	Eel	2022-10-23	18:00:00	15.44	7.91	NA	NA	76	NA
40333	Eel	2022-10-23	18:15:00	15.37	7.92	NA	NA	76	NA
40334	Eel	2022-10-23	18:30:00	15.37	7.93	NA	NA	76	NA
40335	Eel	2022-10-23	18:45:00	15.34	7.93	NA	NA	76	NA
40336	Eel	2022-10-23	19:00:00	15.34	7.93	NA	NA	76	NA
40337	Eel	2022-10-23	19:15:00	15.34	7.93	NA	NA	76	NA
40338	Eel	2022-10-23	19:30:00	15.32	7.93	NA	NA	76	NA
40339	Eel	2022-10-23	19:45:00	15.32	7.93	NA	NA	76	NA
40340	Eel	2022-10-23	20:00:00	15.32	7.93	NA	NA	76	NA
40341	Eel	2022-10-23	20:15:00	15.32	7.93	NA	NA	76	NA
40342	Eel	2022-10-23	20:30:00	15.32	7.93	NA	NA	76	NA
40343	Eel	2022-10-23	20:45:00	15.34	7.93	NA	NA	76	NA
40344	Eel	2022-10-23	21:00:00	15.37	7.93	NA	NA	76	NA
40345	Eel	2022-10-23	21:15:00	15.37	7.92	NA	NA	76	NA
40346	Eel	2022-10-23	21:30:00	15.34	7.92	NA	NA	76	NA
40347	Eel	2022-10-23	21:45:00	15.32	7.90	NA	NA	76	NA
40348	Eel	2022-10-23	22:00:00	15.34	7.91	NA	NA	76	NA
40349	Eel	2022-10-23	22:15:00	15.34	7.91	NA	NA	76	NA

```

40350 Eel 2022-10-23 22:30:00 15.32 7.91 NA NA 76 NA
40351 Eel 2022-10-23 22:45:00 15.32 7.91 NA NA 76 NA
40352 Eel 2022-10-23 23:00:00 15.29 7.90 NA NA 76 NA
40353 Eel 2022-10-23 23:15:00 15.25 7.91 NA NA 76 NA
40354 Eel 2022-10-23 23:30:00 15.25 7.91 NA NA 76 NA
40355 Eel 2022-10-23 23:45:00 15.25 7.91 NA NA 76 NA

```

```

data_combined[is.na(data_combined$offset)&(data_combined$Serial_number==340),"offset"] <- 0.04
data_combined[is.na(data_combined$offset)&(data_combined$Serial_number==076),"offset"] <- 0.02

data_combined[is.na(data_combined$offset),] #This should not contain anything.

```

```

[1] Site          Date        Temp        pH         Tris
[6] Tris_temp    Serial_number offset
<0 rows> (or 0-length row.names)

```

```

data_combined$pH_corr <- data_combined$pH-data_combined$offset

if(params$Total_scale_corr==TRUE){
  data_combined$pH <- data_combined$pH_corr}

```

### 0.3.1 Plot tides

```

# Plot tides
setwd("~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Tides")
#dir()
tides.Ptown1 <- read.table("Ptown_Jul.txt", skip =14)
tides.Ptown2 <- read.table("Ptown_Aug.txt", skip =14)
tides.Ptown3 <- read.table("Ptown_Sep.txt", skip =14)
tides.Ptown4 <- read.table("Ptown_Oct.txt", skip =14)
tides.Ptown5 <- read.table("Ptown_Nov.txt", skip =14)
tides.Ptown6 <- read.table("Ptown_Dec.txt", skip =14)
tides.Ptown7 <- read.table("Ptown_Apr23.txt", skip =14)
tides.Ptown8 <- read.table("Ptown_May23.txt", skip =14)
tides.Ptown9 <- read.table("Ptown_Jun23.txt", skip =14)
tides.Den1 <- read.table("Den_Jul.txt", skip =14)
tides.Den2 <- read.table("Den_Aug.txt", skip =14)
tides.Den3 <- read.table("Den_Sep.txt", skip =14)

```

```

tides.Eel1 <- read.table("Hyannis_Jul.txt", skip =14)
tides.Eel2 <- read.table("Hyannis_Aug.txt", skip =14)
tides.Eel3 <- read.table("Hyannis_Sep.txt", skip =14)
tides.Eel4 <- read.table("Hyannis_Oct.txt", skip =14)
tides.Eel5 <- read.table("Hyannis_Nov.txt", skip =14)
tides.Eel6 <- read.table("Hyannis_Dec.txt", skip =14)
tides.Eel7 <- read.table("Hyannis_Apr23.txt", skip =14)
tides.Eel8 <- read.table("Hyannis_May23.txt", skip =14)
tides.Eel9 <- read.table("Hyannis_Jun23.txt", skip =14)

tides.Ptown <- rbind(tides.Ptown1, tides.Ptown2, tides.Ptown3,
                      tides.Ptown4, tides.Ptown5, tides.Ptown6,
                      tides.Ptown7, tides.Ptown8, tides.Ptown9)
tides.Den <- rbind(tides.Den1, tides.Den2, tides.Den3)
tides.Eel <- rbind(tides.Eel1, tides.Eel2, tides.Eel3,
                    tides.Eel4, tides.Eel5, tides.Eel6,
                    tides.Eel7, tides.Eel8, tides.Eel9)

tides <- data.frame(tides = rbind(tides.Ptown,tides.Den,tides.Eel),
                     Site = as.factor(c(rep("Ptown",times=nrow(tides.Ptown)),
                     rep("Den",times=nrow(tides.Den)),
                     rep("Eel",times=nrow(tides.Eel)))))

names(tides)<- c("date","day","Time","Tideheight","Site")

Date1 <- paste(tides$date,tides$Time,sep=" ")

tides>Date <- as.POSIXct(strptime(Date1,format = "%Y/%m/%d %H:%M"),tz="Etc/GMT+5")

tides$Date[tides$Site=="Eel"] <- tides$Date[tides$Site=="Eel"]+ minutes(60) #Eel Pond tide is off by one hour

tides$state <- rep(NA, length.out = nrow(tides))
# for(i in 2:nrow(tides)){
#   if(tides$Tideheight[i]>tides$Tideheight[i-1]){ tides$state[i] <- "Ebb"} else {tides$state[i] <- "Flood"}
# }

# tides$state <- ifelse(tides$Tideheight > dplyr::lag(tides$Tideheight, default = first(tides$Tideheight)), "Ebb", "Flood")

library(dplyr)
#https://www.statology.org/r-lag/

```

```

# Now 'tide_group' column will contain a unique identifier for each pair of ebb and flood tide

tides$previous_Tideheight <- lag(tides$Tideheight, n = 3)
tides <- tides %>%
  mutate(state = case_when(Tideheight > previous_Tideheight
                           | Tideheight > lag(previous_Tideheight,
                                              n = 3) ~ "Flood",
                           Tideheight < previous_Tideheight
                           | Tideheight < lag(previous_Tideheight,
                                              n = 3) ~ "Ebb",
                           TRUE ~ "Slack"),
        tide_group = cumsum(state != lag(state, default = first(state))))
tides$state[1:3] <- "Flood"

data_combined$date<-as.POSIXct(data_combined$date, tz="Etc/GMT+5")
data_combined$date<-round_date(data_combined$date, unit="minutes")

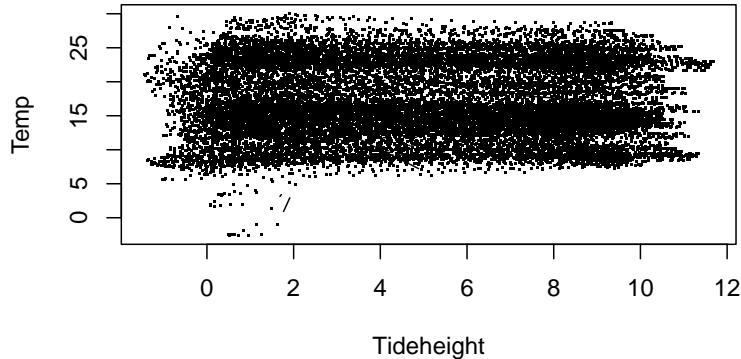
data_combined$Site<-as.factor(data_combined$Site)
data_combined$H_plus_conc<-10^(-data_combined$pH)

joined_df <- left_join(x=data_combined, y=tides, by= c("Date","Site"))

# Plot tides -----
Ptown <- joined_df[joined_df$Site=="Ptown",]
plot(Temp~Tideheight, pch =".",type ="b", data = Ptown, main="Ptown")

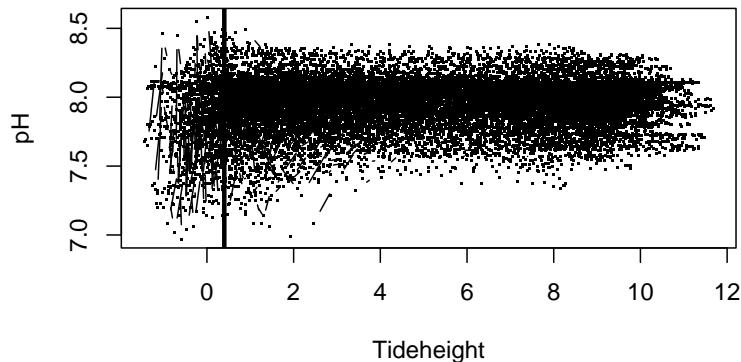
```

**Ptown**



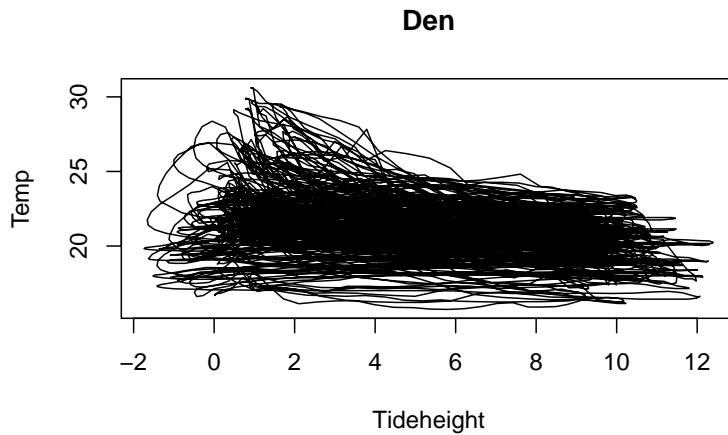
```
plot(pH~Tideheight,pch=". ",data = Ptown, type = "b", main="Ptown")
lines(x=c(.4,.4),y=c(5,9),lwd=3)
```

**Ptown**

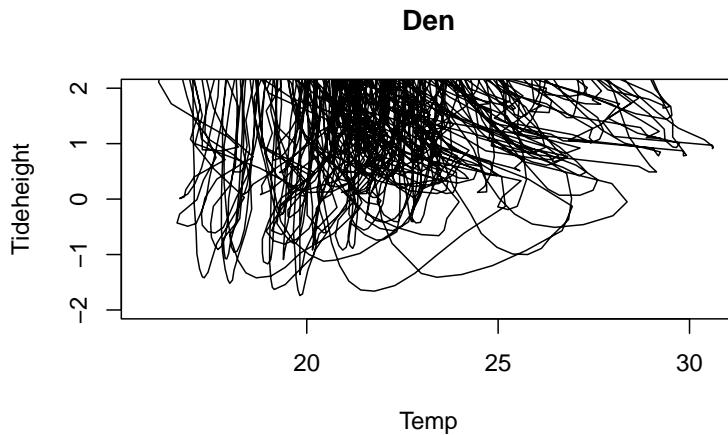


```
# This graph seems to demonstrate that pH goes up or down at low tide (I'm guessing night or day)
# but below a certain point goes to ~7.8 - I think this is when the pH probe is not
# in water anymore.
```

```
Den <- joined_df[joined_df$Site=="Den",]
plot(Temp~Tideheight, pch =". ",type ="l", data = Den, main="Den")
```



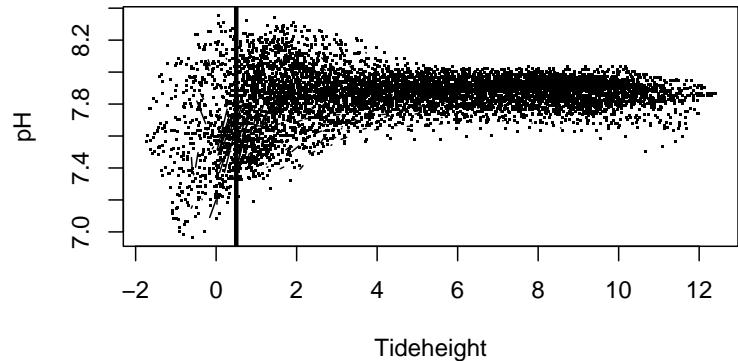
```
plot(Tideheight~Temp, pch = ". ", type = "l", data = Den, ylim = c(-2,2), main="Den")
```



```
# What concerns me are the lines where temp rapidly increases at low tide. I expect some slow ...
# I also wonder about introducing a lag of a few hours after the sensor has been out of the water
```

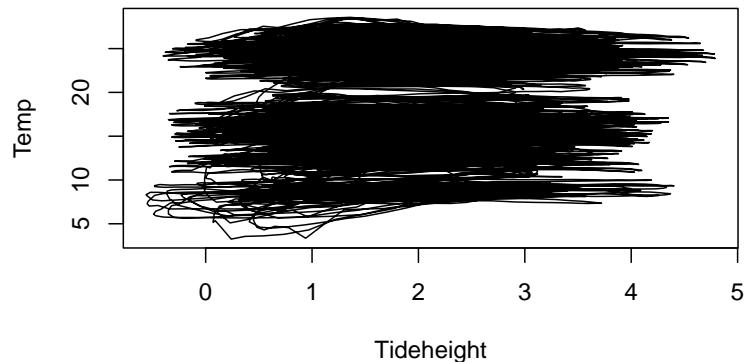
```
plot(pH~Tideheight, pch = ". ", data = Den, type = "b", main="Den")
lines(x=c(.5,.5), y=c(5,9), lwd=3)
```

**Den**



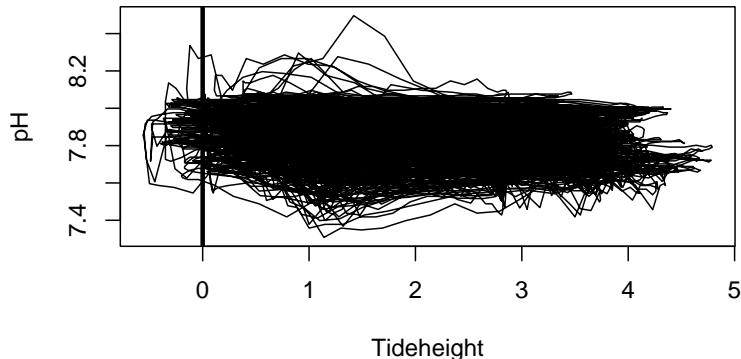
```
Eel <- joined_df[joined_df$Site=="Eel",]  
plot(Temp~Tideheight, pch=". ", type ="l", data = Eel, main="Eel")
```

**Eel**



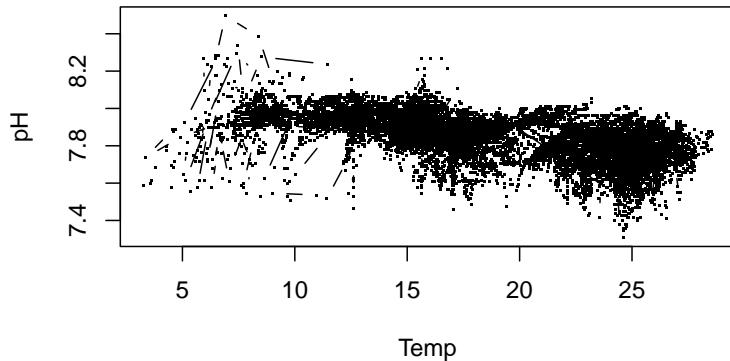
```
plot(pH~Tideheight,pch=". ",data = Eel, type = "l", main="Eel")  
lines(x=c(0,0),y=c(5,30),lwd=3)
```

### Eel



```
plot(pH~Temp, pch =".", type ="b", data = Eel, main="Eel")
```

### Eel



```
# Not clear from data what tide is too low. It might be more wind-dependent.  
# At 0.5ft tide the cages are on sediment that is about 2.5 ft deep.  
# The sensor is installed <0.5ft above the sediment. However there is likely a mismatch between  
# The actual water level - the site water level does not vary much.  
# Honestly, I don't see anything in this data linked with the tides to suggest that I'm getting  
# If anything, the highest temps occur when the low tides are really minimal.  
# The HOBO temp logger will probably help the most in figuring this out,  
# it will help determine if there is some wind/tide-driven bad data or not due to sensor exposure
```

Exclude pH from times water below low tide mark.

```
Ptown <- Ptown[Ptown$Tideheight>2,] #This was at 0.4
Den <- Den[Den$Tideheight>3,] #This was at .5
Eel <- Eel[Eel$Tideheight>2,] #This was at 0.

# Aggregate data -----
Ptown.hr <- aggregate(Ptown[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Ptown[,c("Date")], breaks="hour")),
                      mean, na.rm = TRUE)
Den.hr <- aggregate(Den[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Den[,c("Date")], breaks="hour")),
                      mean, na.rm = TRUE)
Eel.hr <- aggregate(Eel[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Eel[,c("Date")], breaks="hour")),
                      mean, na.rm = TRUE)

all.data.hr <- data.frame(
  rbind(Ptown.hr,Den.hr,Eel.hr),
  Site = as.factor(c(rep("Ptown",times = nrow(Ptown.hr)),
                     rep("Den",times = nrow(Den.hr)),
                     rep("Eel",times = nrow(Eel.hr)))))
)
all.data.hr$Date<- as.POSIXct(all.data.hr$Date)

# Calc true mean not arithmetic mean
all.data.hr$pH <- -log10(all.data.hr$H_plus_conc)

all.data.hr.break <- all.data.hr[1:3,]
all.data.hr.break$Date <- "2023-01-01 00:00:00"
all.data.hr.break$pH <- NA
all.data.hr.break$Temp <- NA
all.data.hr.break$Site <- c("Ptown", "Eel", "Den")
all.data.hr <- rbind(all.data.hr,all.data.hr.break)

head(all.data.hr)
```

	Date	pH	Temp	H_plus_conc	Site
1	2022-07-01	8.012621	21.5750	9.713577e-09	Ptown

```

2 2022-07-01 8.010142 21.5825 9.769170e-09 Ptown
3 2022-07-01 8.015114 21.6875 9.657984e-09 Ptown
4 2022-07-01 8.027563 21.9675 9.385050e-09 Ptown
5 2022-07-01 7.994369 21.7700 1.013051e-08 Ptown
6 2022-07-01 7.977621 21.6700 1.052881e-08 Ptown

Ptown.dy <- aggregate(Ptown[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Ptown[,c("Date")], breaks="day")),
                      mean, na.rm = TRUE)
Den.dy <- aggregate(Den[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Den[,c("Date")], breaks="day")),
                      mean, na.rm = TRUE)
Eel.dy <- aggregate(Eel[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Eel[,c("Date")], breaks="day")),
                      mean, na.rm = TRUE)

all.data.dy <- data.frame(
  rbind(Ptown.dy,Den.dy,Eel.dy),
  Site = as.factor(c(rep("Ptown",times = nrow(Ptown.dy)),
  rep("Den",times = nrow(Den.dy)),
  rep("Eel",times = nrow(Eel.dy))))
)
all.data.dy$Date<- as.POSIXct(all.data.dy$Date)

# Calc true mean not arithmetic mean
all.data.dy$pH <- -log10(all.data.dy$H_plus_conc)

all.data.dy.break <- all.data.dy[1:3,]
all.data.dy.break$Date <- "2023-01-01 00:00:00"
all.data.dy.break$pH <- NA
all.data.dy.break$Temp <- NA
all.data.dy.break$Site <- c("Ptown", "Eel", "Den")
all.data.dy <- rbind(all.data.dy,all.data.dy.break)

head(all.data.dy)

```

	Date	pH	Temp	H_plus_conc	Site
1	2022-07-01	8.051273	23.00237	8.886418e-09	Ptown
2	2022-07-02	7.941035	22.71263	1.145422e-08	Ptown
3	2022-07-03	7.936546	22.49120	1.157321e-08	Ptown

```

4 2022-07-04 7.973772 22.86960 1.062253e-08 Ptown
5 2022-07-05 7.973823 22.56342 1.062129e-08 Ptown
6 2022-07-06 7.877860 21.95789 1.324769e-08 Ptown

```

```

Ptown.wk <- aggregate(Ptown[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Ptown[,c("Date")], breaks="week")),
                      mean, na.rm = TRUE)
Den.wk <- aggregate(Den[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Den[,c("Date")], breaks="week")),
                      mean, na.rm = TRUE)
Eel.wk <- aggregate(Eel[,c("pH","Temp","H_plus_conc")],
                      list(Date = cut(Eel[,c("Date")], breaks="week")),
                      mean, na.rm = TRUE)

all.data.wk <- data.frame(
  rbind(Ptown.wk,Den.wk,Eel.wk),
  Site = as.factor(c(rep("Ptown",times = nrow(Ptown.wk)),
  rep("Den",times = nrow(Den.wk)),
  rep("Eel",times = nrow(Eel.wk))))
)
all.data.wk$Date<- as.POSIXct(all.data.wk$Date)

# Calc true mean not arithmetic mean
all.data.wk$pH <- -log10(all.data.wk$H_plus_conc)

head(all.data.wk)

```

	Date	pH	Temp	H_plus_conc	Site
1	2022-06-27	7.973310	22.73648	1.063383e-08	Ptown
2	2022-07-04	7.960365	22.64361	1.095557e-08	Ptown
3	2022-07-11	7.975953	23.07258	1.056931e-08	Ptown
4	2022-07-18	7.950433	26.22679	1.120900e-08	Ptown
5	2022-07-25	7.934652	24.50816	1.162379e-08	Ptown
6	2022-08-01	7.851386	25.47081	1.408037e-08	Ptown

```

all.data.wk.break <- all.data.wk[1:3,]
all.data.wk.break$Date <- "2023-01-01 00:00:00"
all.data.wk.break$pH <- NA
all.data.wk.break$Temp <- NA
all.data.wk.break$Site <- c("Ptown", "Eel", "Den")

```

```
all.data.wk <- rbind(all.data.wk, all.data.wk.break)
tail(all.data.wk)
```

	Date	pH	Temp	H_plus_conc	Site
72	2023-05-22	7.828177	16.79041	1.485329e-08	Eel
73	2023-05-29	7.791064	18.32975	1.617840e-08	Eel
74	2023-06-05	7.700131	17.34392	1.994659e-08	Eel
75	2023-01-01	NA	NA	1.063383e-08	Ptown
76	2023-01-01	NA	NA	1.095557e-08	Eel
77	2023-01-01	NA	NA	1.056931e-08	Den

### 0.3.2 Final plots

```
# plot(all.data$date, all.data$pH,
#       color = as.factor(data_combined$Site), pch = ".")  
  
sampling.pH <- data.frame(  
  x = as.POSIXct(c("2022-06-29 00:00:00 EDT", "2022-08-2 00:00:00 EDT", "2022-09-9 00:00:00 EDT"),  
  y = c(7.5, 7.5, 7.5, 7.5, 7.5, 7.5))  
)  
sampling.temp <- data.frame(  
  x = as.POSIXct(c("2022-06-29 00:00:00 EDT", "2022-08-2 00:00:00 EDT", "2022-09-9 00:00:00 EDT"),  
  y = c(5, 5, 5, 5, 5, 5))  
)  
  
theme_set(theme_bw())  
  
colors <- c(  
  "Den" = "blue",  
  "Eel" = "green",  
  "Ptown" = "orange",  
  "Date sampled" = "black")  
  
#scale_color_manual(values=c("blue", "green", "orange"))  
  
# Now I'm aggregating by day... and this is a bit easier to digest when comparing among sites  
head(all.data.wk)
```

```

Date      pH      Temp H_plus_conc Site
1 2022-06-27 7.973310 22.73648 1.063383e-08 Ptown
2 2022-07-04 7.960365 22.64361 1.095557e-08 Ptown
3 2022-07-11 7.975953 23.07258 1.056931e-08 Ptown
4 2022-07-18 7.950433 26.22679 1.120900e-08 Ptown
5 2022-07-25 7.934652 24.50816 1.162379e-08 Ptown
6 2022-08-01 7.851386 25.47081 1.408037e-08 Ptown

```

```
str(all.data.wk)
```

```

'data.frame': 77 obs. of 5 variables:
 $ Date       : POSIXct, format: "2022-06-27" "2022-07-04" ...
 $ pH         : num  7.97 7.96 7.98 7.95 7.93 ...
 $ Temp        : num  22.7 22.6 23.1 26.2 24.5 ...
 $ H_plus_conc: num  1.06e-08 1.10e-08 1.06e-08 1.12e-08 1.16e-08 ...
 $ Site        : Factor w/ 3 levels "Den","Eel","Ptown": 3 3 3 3 3 3 3 3 3 ...

```

```

gg1 <- ggplot(all.data.wk, aes(x=Date, y=pH, colour = Site))+  

  geom_point(cex = 1) +  

  geom_line(cex = 1)+  

  ylim(7.5,8.3)+  

  #xlim(as.POSIXct(c("2022-06-29 00:00:00 EDT","2022-09-9 00:00:00 EDT")))+  

  geom_point(data = sampling.pH, aes(x,y), color = "black", cex = 5)+  

  scale_color_manual(values=colors) +  

  guides(colour = guide_legend(override.aes = list(size=5)))+  

  ggtitle('B. pH')

```

Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.  
 i Please use `linewidth` instead.

```

ylab = expression("Temperature " ( degree*C))

gg2 <- ggplot(all.data.wk, aes(x=Date, y=Temp, colour = Site))+  

  geom_point(cex = 1) +  

  geom_line(cex = 1)+  

  labs(y=ylab)+  

  #ylim(14,30)+  

  #xlim(as.POSIXct(c("2022-06-29 00:00:00 EDT","2022-09-9 00:00:00 EDT")))+  

  geom_point(data = sampling.temp, aes(x,y), color = "black", cex = 5)+

```

```

scale_color_manual(values=colors) +
guides(colour = guide_legend(override.aes = list(size=5)))+
ggtitle('A. Temp')

ggarrange(gg2, gg1, common.legend = TRUE, legend="bottom")

```

Warning: Removed 3 rows containing missing values or values outside the scale range (`geom\_point()`).

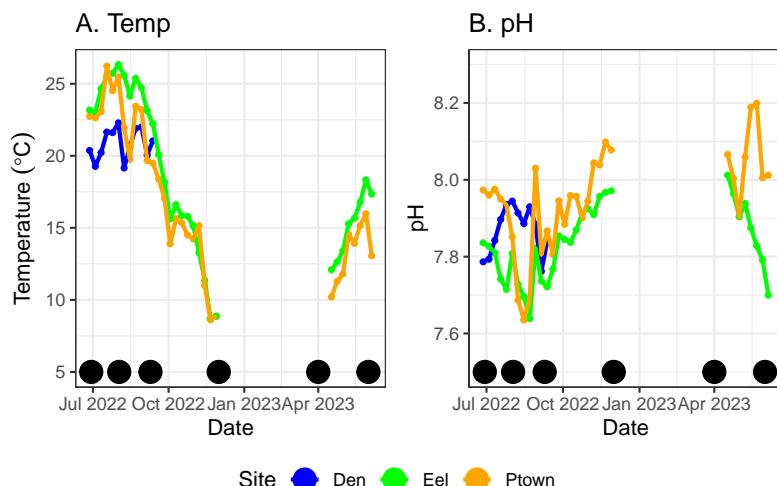
Warning: Removed 1 row containing missing values or values outside the scale range (`geom\_line()`).

Warning: Removed 3 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 1 row containing missing values or values outside the scale range (`geom\_line()`).

Warning: Removed 3 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 1 row containing missing values or values outside the scale range (`geom\_line()`).



```
#  
  
setwd("~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/HOBOpHdata")  
write.csv(all.data.wk, file="Summary_weekly_ave.csv")  
write.csv(all.data.dy, file="Summary_daily_ave.csv")
```

## 0.4 Compare with surfclam carbonate chemistry data

```
dir_data <- "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Carbonate chem/"  
#carb_dat <- read.csv(paste(dir_data,"Surfclam_carbonate_data_wgraphs.csv", sep = ""), stringsAsFactors=FALSE)  
carb_dat <- read.csv(paste(dir_data,"Surfclam_carbonate_data_corrected.csv", sep = ""), stringsAsFactors=FALSE)  
carb_dat$Date <- as.POSIXct(carb_dat$Date, format = "%m/%d/%y")  
carb_dat <- carb_dat[!is.na(carb_dat$Date),]  
carb_dat$Site[carb_dat$Site == "Eel Pond"] <- "Eel"  
carb_dat$Site[carb_dat$Site == "Provincetown"] <- "Ptown"  
carb_dat$Site[carb_dat$Site == "East Dennis (aquaculture)"] <- "Den"  
carb_dat$Site <- as.factor(carb_dat$Site)  
  
carb_dat$InSitu.pH <- carb_dat$pH..pH.Alk.  
carb_dat$Water.Sediment..Temp <- carb_dat$Water.Sed..Temp  
carb_dat <- carb_dat[carb_dat$Bad.data!="y",] #Exclude values Matt marked as likely questionable
```

```
sampling.pH <- data.frame(  
  x = as.POSIXct(c("2022-06-29 00:00:00 EDT","2022-08-2 00:00:00 EDT","2022-09-9 00:00:00 EDT"),  
  y = rep(7.2, 6)  
)  
sampling.temp <- data.frame(  
  x = as.POSIXct(c("2022-06-29 00:00:00 EDT","2022-08-2 00:00:00 EDT","2022-09-9 00:00:00 EDT"),  
  y = rep(0,6)  
)  
  
gg1 <- ggplot(all.data.dy, aes(x=Date, y=pH, colour = Site))+  
  geom_line(cex = 1)+  
  ylim(7.2,8.3)+  
  #xlim(as.POSIXct(c("2022-06-29 00:00:00 EDT","2022-09-9 00:00:00 EDT")))+  
  geom_point(data = sampling.pH, aes(x,y), color = "black", cex = 1)+  
  scale_color_manual(values=colors) +
```

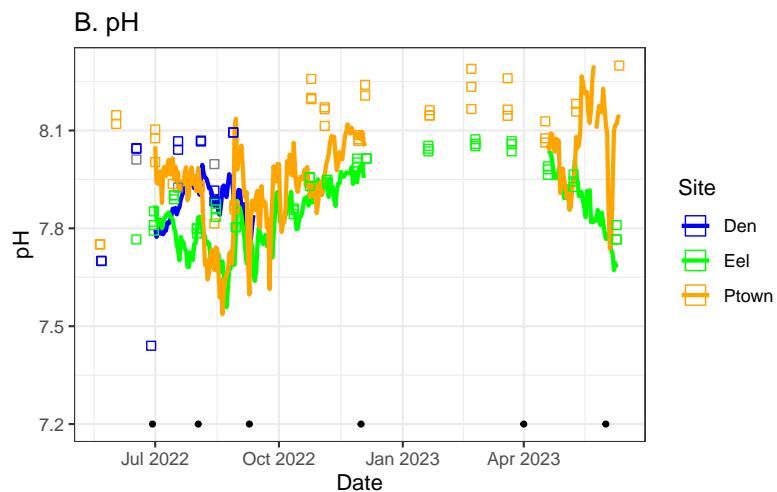
```

guides(colour = guide_legend(override.aes = list(size=5)))+
ggtitle('B. pH')+
geom_point(data = carb_dat[carb_dat$Stratum=="Bottom water",],aes(x=Date, y = InSitu.pH, col
gg1

```

Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom\_line()`).

Warning: Removed 3 rows containing missing values or values outside the scale range  
(`geom\_point()`).



```

ylab = expression("Temperature " ( degree*C))

gg2 <- ggplot(all.data.dy, aes(x=Date, y=Temp, colour = Site))+  

  geom_line(cex = 1)+  

  labs(y=ylab)+  

  ylim(0,30)+  

  #xlim(as.POSIXct(c("2022-06-29 00:00:00 EDT","2022-09-9 00:00:00 EDT")))+  

  geom_point(data = sampling.temp, aes(x,y), color = "black", cex = 1)+  

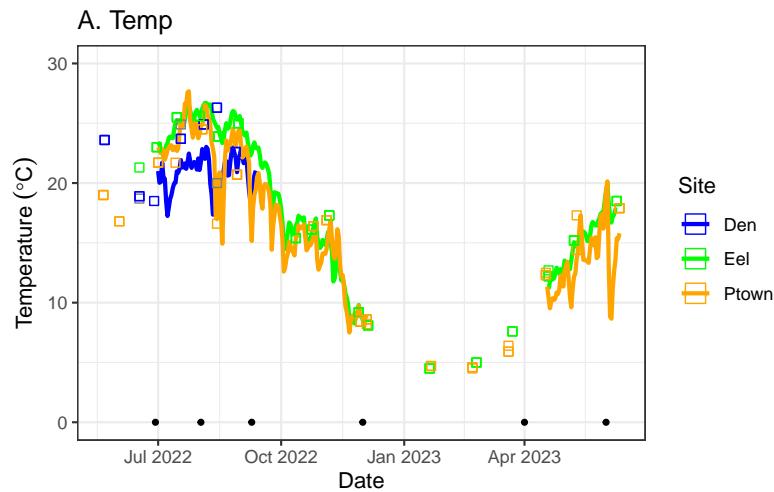
  scale_color_manual(values=colors) +  

  guides(colour = guide_legend(override.aes = list(size=5)))+  

  ggtitle('A. Temp')+
```

```
geom_point(data = carb_dat[carb_dat$Stratum=="Bottom water",],aes(x=Date, y = Water.Sediment
gg2
```

Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom\_line()`).



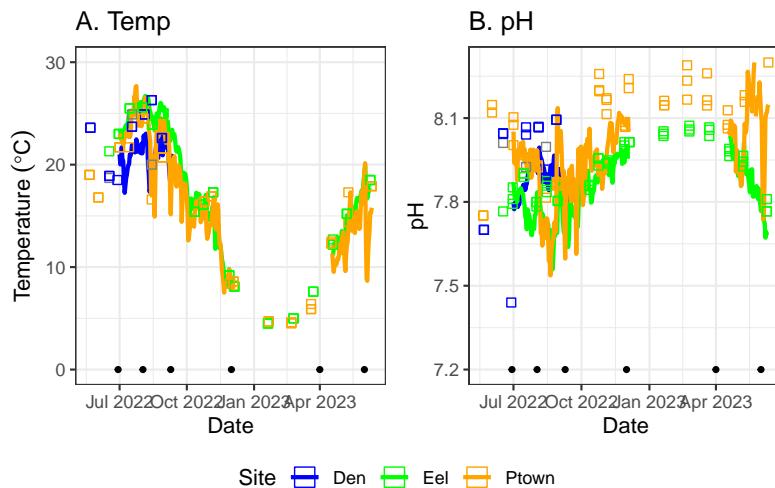
```
ggarrange(gg2, gg1, common.legend = TRUE, legend="bottom")
```

Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom\_line()`).

Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom\_line()`).

Removed 1 row containing missing values or values outside the scale range  
(`geom\_line()`).

Warning: Removed 3 rows containing missing values or values outside the scale range  
(`geom\_point()`).



```
# I need to add all of the tide data so I can subset the data using tide data

# Tide data websites:
#https://tidesandcurrents.noaa.gov/map/index.html
# Dennis https://tidesandcurrents.noaa.gov/noaatidepredictions.html?id=8447241&units=standard&
# Falmouth - only L/H: https://tidesandcurrents.noaa.gov/noaatidepredictions.html?id=8447865
# Hyannis - https://tidesandcurrents.noaa.gov/noaatidepredictions.html?id=8447605
# Note I'm using the Hyannis dataset because they have down to 1min predictions. Falmouth does
# Compared to Eel Pond Entrance on Willy Weather, Hyannis is ~30 min behind - which is perfect
# Willy Weather says it is.
```

## 0.5 Read YSI data

```
data_dir <- "~/GitHub/EAD-ASEB-Ssolidissima-OA/projects/Seawater data/data/"
YSI <- read.csv(paste(data_dir,"YSI_Eel_Ptown.csv",sep = ""), stringsAsFactors = FALSE)

YSI$datetime <- as.POSIXct(YSI$datetime)
YSI$Hplus_P <- 10^-YSI$pH_P
YSI$Hplus_E <- 10^-YSI$pH_E

YSI.Ptown.dy <- aggregate(YSI[,c("Temp_P","pH_P","Sal_P","Hplus_P")],
                           by = list(Date = cut(YSI$datetime, breaks="day"))),
```

```

        FUN = mean, na.rm=TRUE)
YSI.Eel.dy <- aggregate(YSI[,c("Temp_E","pH_E", "Sal_E","Hplus_E")],
                        by = list(Date = cut(YSI$datetime, breaks="day")),
                        FUN = mean, na.rm=TRUE)

YSI.Eel.dy$Date <- as.POSIXct(as.character(YSI.Eel.dy$Date))
YSI.Ptown.dy$Date <- as.POSIXct(as.character(YSI.Ptown.dy$Date))

HOBOpH.Ptown.dy <- all.data.dy[all.data.dy$Site == "Ptown",]
HOBOpH.Eel.dy <- all.data.dy[all.data.dy$Site == "Eel",]

joined_Ptown <- merge(x=HOBOpH.Ptown.dy, y=YSI.Ptown.dy, by = "Date", all=T)
joined_Eel <- merge(x=HOBOpH.Eel.dy, y=YSI.Eel.dy, by = "Date", all=T)

mod_Ptown_Hplus <- lm(data = joined_Ptown,H_plus_conc ~ Hplus_P * Temp_P * Sal_P)
mod_Ptown_pH <- lm(data = joined_Ptown,pH ~ pH_P * Temp_P * Sal_P)
mod_Ptown_Temp <- lm(data = joined_Ptown,Temp ~ pH_P + Temp_P + Sal_P)
mod_Ptown_Temp <- lm(data = joined_Ptown,Temp ~ Temp_P)
summary(mod_Ptown_Hplus)

```

Call:

```
lm(formula = H_plus_conc ~ Hplus_P * Temp_P * Sal_P, data = joined_Ptown)
```

Residuals:

Min	1Q	Median	3Q	Max
-8.381e-09	-2.056e-09	-6.524e-10	1.405e-09	1.445e-08

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	2.428e-07	4.226e-07	0.575	0.566
Hplus_P	2.295e+01	5.565e+01	0.412	0.681
Temp_P	-2.141e-08	2.678e-08	-0.800	0.425
Sal_P	-8.515e-09	1.340e-08	-0.635	0.526
Hplus_P:Temp_P	-6.117e-01	3.641e+00	-0.168	0.867
Hplus_P:Sal_P	-5.672e-01	1.759e+00	-0.322	0.747
Temp_P:Sal_P	7.460e-10	8.473e-10	0.880	0.380
Hplus_P:Temp_P:Sal_P	1.022e-02	1.150e-01	0.089	0.929

Residual standard error: 3.604e-09 on 186 degrees of freedom

```
(360 observations deleted due to missingness)
Multiple R-squared:  0.3865,    Adjusted R-squared:  0.3634
F-statistic: 16.74 on 7 and 186 DF,  p-value: < 2.2e-16
```

```
summary(mod_Ptown_pH)
```

Call:

```
lm(formula = pH ~ pH_P * Temp_P * Sal_P, data = joined_Ptown)
```

Residuals:

Min	1Q	Median	3Q	Max
-0.38644	-0.05805	0.01327	0.07446	0.28712

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	-1.370e+02	2.051e+02	-0.668	0.505
pH_P	1.623e+01	2.526e+01	0.642	0.521
Temp_P	4.314e+00	1.305e+01	0.331	0.741
Sal_P	4.047e+00	6.525e+00	0.620	0.536
pH_P:Temp_P	-4.284e-01	1.603e+00	-0.267	0.790
pH_P:Sal_P	-4.468e-01	8.039e-01	-0.556	0.579
Temp_P:Sal_P	-1.066e-01	4.140e-01	-0.257	0.797
pH_P:Temp_P:Sal_P	9.872e-03	5.087e-02	0.194	0.846

Residual standard error: 0.1104 on 185 degrees of freedom

(361 observations deleted due to missingness)

Multiple R-squared: 0.486, Adjusted R-squared: 0.4665

F-statistic: 24.99 on 7 and 185 DF, p-value: < 2.2e-16

```
summary(mod_Ptown_Temp)
```

Call:

```
lm(formula = Temp ~ Temp_P, data = joined_Ptown)
```

Residuals:

Min	1Q	Median	3Q	Max
-5.3312	-0.4806	-0.0005	0.4968	2.6693

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )							
(Intercept)	-0.27338	0.28738	-0.951	0.343							
Temp_P	1.03224	0.01635	63.142	<2e-16 ***							
---											
Signif. codes:	0	'***'	0.001	'**'	0.01	'*'	0.05	'..'	0.1	' '	1

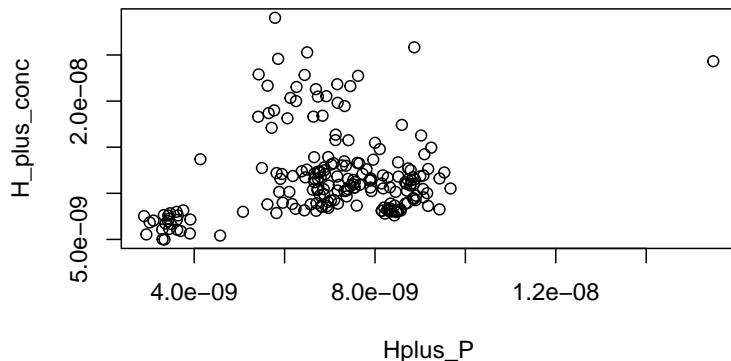
Residual standard error: 1.156 on 191 degrees of freedom

(361 observations deleted due to missingness)

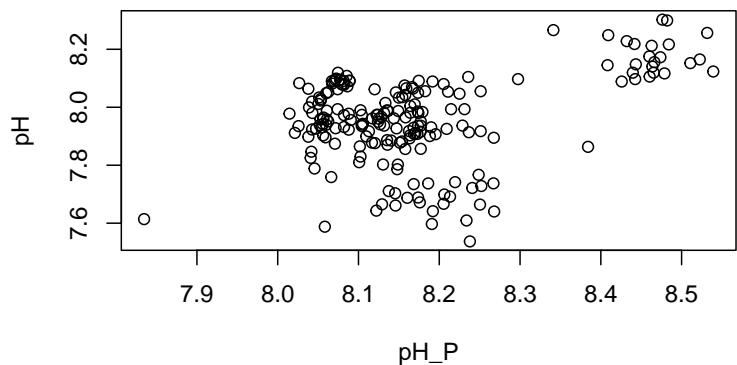
Multiple R-squared: 0.9543, Adjusted R-squared: 0.954

F-statistic: 3987 on 1 and 191 DF, p-value: < 2.2e-16

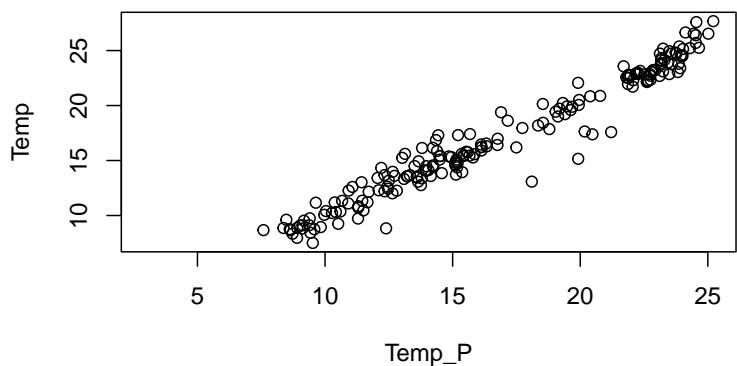
```
plot(data = joined_Ptown, H_plus_conc ~ Hplus_P)
```



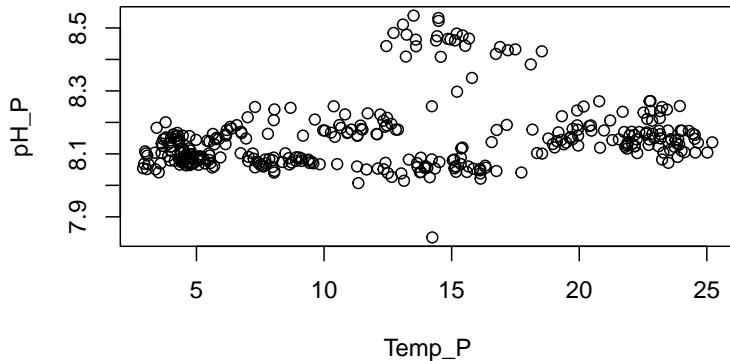
```
plot(data = joined_Ptown, pH ~ pH_P)
```



```
plot(data = joined_Ptown, Temp ~ Temp_P)
```



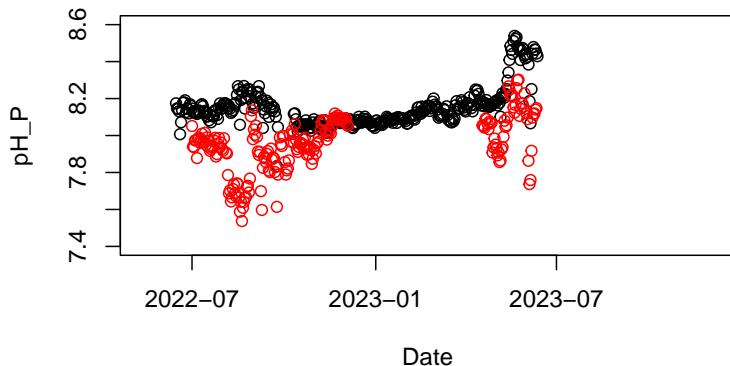
```
plot(data = joined_Ptown, pH_P ~ Temp_P)
```



```
str(joined_Ptown)
```

```
'data.frame': 554 obs. of 9 variables:
 $ Date      : POSIXct, format: "2022-05-13" "2022-05-14" ...
 $ pH        : num  NA NA NA NA NA NA NA NA NA ...
 $ Temp      : num  NA NA NA NA NA NA NA NA NA ...
 $ H_plus_conc: num  NA NA NA NA NA NA NA NA NA ...
 $ Site       : Factor w/ 3 levels "Den","Eel","Ptown": NA NA NA NA NA NA NA NA NA ...
 $ Temp_P    : num  NaN NaN NaN NaN NaN NaN NaN NaN ...
 $ pH_P      : num  NaN NaN NaN NaN NaN NaN NaN NaN ...
 $ Sal_P     : num  NaN NaN NaN NaN NaN NaN NaN NaN ...
 $ Hplus_P   : num  NaN NaN NaN NaN NaN NaN NaN NaN ...
```

```
par(mfrow = c(1, 1))
plot(data = joined_Ptown, pH_P ~ Date, ylim = c(7.4,8.6))
points(data = joined_Ptown, pH ~ Date, col = "red")
```



```

mod_Eel_Hplus <- lm(data = joined_Eel,H_plus_conc ~ Hplus_E * Temp_E * Sal_E)
mod_Eel_pH   <- lm(data = joined_Eel,pH ~ pH_E * Temp_E * Sal_E)
mod_Eel_Temp <- lm(data = joined_Eel,Temp ~ pH_E + Temp_E + Sal_E)
mod_Eel_Temp <- lm(data = joined_Eel,Temp ~ Temp_E)
summary(mod_Eel_Hplus) #R2 .67

```

Call:

```
lm(formula = H_plus_conc ~ Hplus_E * Temp_E * Sal_E, data = joined_Eel)
```

Residuals:

Min	1Q	Median	3Q	Max
-4.190e-09	-1.600e-09	4.150e-11	1.152e-09	8.856e-09

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	1.068e-07	7.706e-08	1.387	0.1672
Hplus_E	-8.045e+00	5.192e+00	-1.549	0.1229
Temp_E	-5.865e-09	3.134e-09	-1.872	0.0628 .
Sal_E	-3.299e-09	2.522e-09	-1.308	0.1924
Hplus_E:Temp_E	3.610e-01	1.997e-01	1.808	0.0722 .
Hplus_E:Sal_E	2.652e-01	1.708e-01	1.552	0.1222
Temp_E:Sal_E	2.056e-10	1.025e-10	2.005	0.0463 *
Hplus_E:Temp_E:Sal_E	-1.181e-02	6.601e-03	-1.788	0.0753 .
---				

```
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 2.298e-09 on 195 degrees of freedom
(351 observations deleted due to missingness)
Multiple R-squared: 0.5955, Adjusted R-squared: 0.5809
F-statistic: 41 on 7 and 195 DF, p-value: < 2.2e-16
```

```
summary(mod_Eel_pH) #R2 .72
```

```
Call:
lm(formula = pH ~ pH_E * Temp_E * Sal_E, data = joined_Eel)
```

Residuals:

Min	1Q	Median	3Q	Max
-0.16389	-0.03526	0.00267	0.04461	0.14406

Coefficients:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	70.129531	39.805432	1.762	0.0797 .
pH_E	-7.956373	5.033147	-1.581	0.1155
Temp_E	-3.179284	1.559018	-2.039	0.0428 *
Sal_E	-2.024070	1.306768	-1.549	0.1230
pH_E:Temp_E	0.412600	0.197901	2.085	0.0384 *
pH_E:Sal_E	0.259519	0.165208	1.571	0.1178
Temp_E:Sal_E	0.102295	0.051250	1.996	0.0473 *
pH_E:Temp_E:Sal_E	-0.013332	0.006503	-2.050	0.0417 *

---

```
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
Residual standard error: 0.06095 on 195 degrees of freedom
(351 observations deleted due to missingness)
Multiple R-squared: 0.6427, Adjusted R-squared: 0.6298
F-statistic: 50.1 on 7 and 195 DF, p-value: < 2.2e-16
```

```
summary(mod_Eel_Temp) #R2 .99
```

Call:

```

lm(formula = Temp ~ Temp_E, data = joined_Eel)

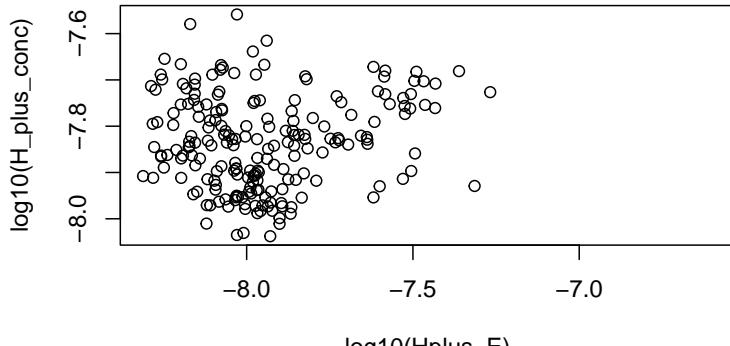
Residuals:
    Min      1Q  Median      3Q     Max 
-3.0833 -0.6735  0.0306  0.5418  3.1773 

Coefficients:
            Estimate Std. Error t value Pr(>|t|)    
(Intercept) 1.24036   0.22920   5.412 1.77e-07 ***
Temp_E       0.90510   0.01147  78.884 < 2e-16 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

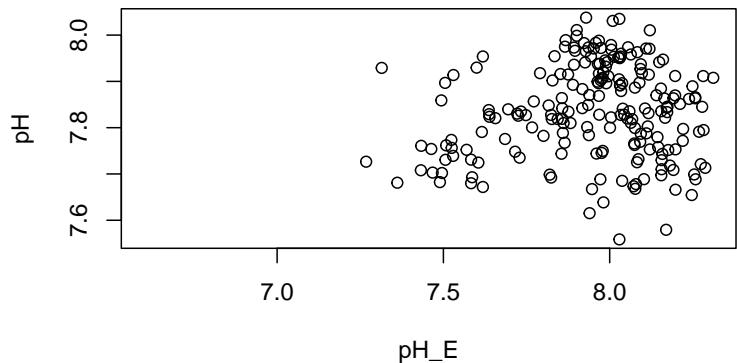
Residual standard error: 0.9558 on 201 degrees of freedom
(351 observations deleted due to missingness)
Multiple R-squared:  0.9687,    Adjusted R-squared:  0.9686 
F-statistic:  6223 on 1 and 201 DF,  p-value: < 2.2e-16

```

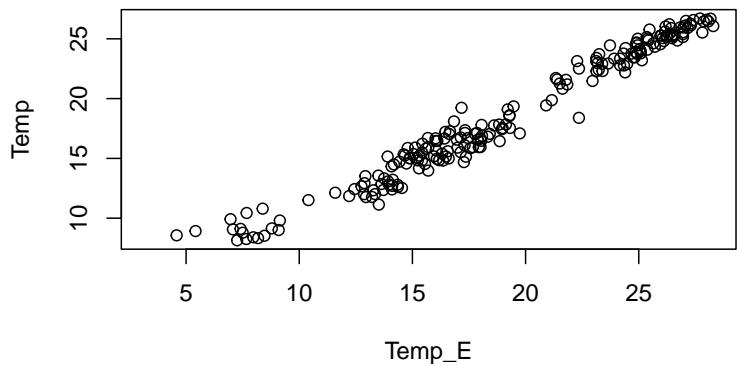
```
plot(data = joined_Eel, log10(H_plus_conc) ~ log10(Hplus_E))
```



```
plot(data = joined_Eel, pH ~ pH_E)
```



```
plot(data = joined_Eel, Temp ~ Temp_E)
```



```
# joined_Eel$Temp.pred <- predict.lm(object = mod_Eel_Temp, newdata = joined_Eel,
#                                         na.action = na.pass)
# joined_Ptown$Temp.pred <- predict.lm(object = mod_Ptown_Temp, newdata = joined_Ptown, na.act

sampling.pH <- data.frame(
  x = as.POSIXct(c("2022-06-29 00:00:00 EDT","2022-08-2 00:00:00 EDT","2022-09-9 00:00:00 EDT"))
  )
```

```

sampling.temp <- data.frame(
  x = as.POSIXct(c("2022-06-29 00:00:00 EDT","2022-08-2 00:00:00 EDT","2022-09-9 00:00:00 EDT"),
  y = c(0,0,0,0,0,0)
)

theme_set(theme_bw())

colors <- c(
  "Den"="blue",
  "Eel"="green",
  "Ptown"="orange",
  "Date sampled"="black"
)

#scale_color_manual(values=c("blue", "green", "orange"))

# Now I'm aggregating by day... and this is a bit easier to digest when comparing among sites

gg1 <- ggplot(all.data.dy, aes(x=Date, y=pH, colour = Site))+ 
  geom_point(cex = 1) + 
  geom_line(cex = 1)+ 
  ylim(7.5,8.3)+ 
  xlim(as.POSIXct(c("2022-06-29 00:00:00 EDT","2023-06-10 00:00:00 EDT")))+ 
  geom_point(data = sampling.pH, aes(x,y), color = "black", cex = 1)+ 
  #geom_point(data = joined_Ptown, aes(x=as.POSIXct(Date),y=pH_P), color = "orange", cex = .5)+ 
  #geom_point(data = joined_Eel, aes(x=as.POSIXct(Date),y=pH_E), color = "green", cex = .5)+ 
  scale_color_manual(values=colors) + 
  guides(colour = guide_legend(override.aes = list(size=5)))+ 
  geom_point(data = carb_dat[carb_dat$Stratum=="Bottom water",],aes(x=Date, y = InSitu.pH, cex = 1))+ 
  ggtitle('B. pH')

gg1

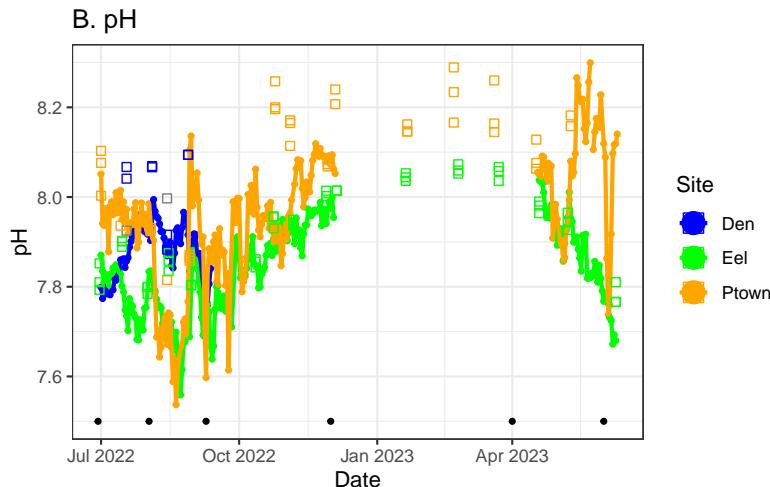
```

Warning: Removed 5 rows containing missing values or values outside the scale range  
(`geom\_point()`).

Warning: Removed 2 rows containing missing values or values outside the scale range  
(`geom\_line()`).

Warning: Removed 17 rows containing missing values or values outside the scale range

```
(`geom_point()`).
```



```
ylab = expression("Temperature " ( degree*C))

all.data.dy <- all.data.dy[all.data.dy$Site != "Den",]
all.data.dy$Site <- as.factor(all.data.dy$Site)
all.data.dy$Site <- factor(all.data.dy$Site, levels=c ('Ptown', 'Eel', 'Den'))

gg2 <- ggplot(all.data.dy, aes(x=Date, y=Temp, colour = Site))+
  geom_point(cex = 1) +
  geom_line(cex = 1)+ 
  labs(y=ylab)+ 
  #ylim(14,30)+ 
  xlim(as.POSIXct(c("2022-08-01 00:00:00 EDT","2023-06-15 00:00:00 EDT")))+ 
  geom_point(data = sampling.temp, aes(x,y), color = "black", cex = 1) + 
  geom_point(data = joined_Ptown, aes(x=as.POSIXct(as.character(Date)),y=Temp_P), color = "orange") + 
  geom_point(data = joined_Eel, aes(x=as.POSIXct(as.character(Date)),y=Temp_E), color = "green") + 
#  scale_color_manual(values=colors) + 
  guides(colour = guide_legend(override.aes = list(size=5)))+
  #geom_point(data = carb_dat[carb_dat$Stratum=="Bottom water",],aes(x=Date, y = Water.Sediment))+ 
  ggttitle('A. Temp')

gg2
```

Warning: Removed 64 rows containing missing values or values outside the scale range

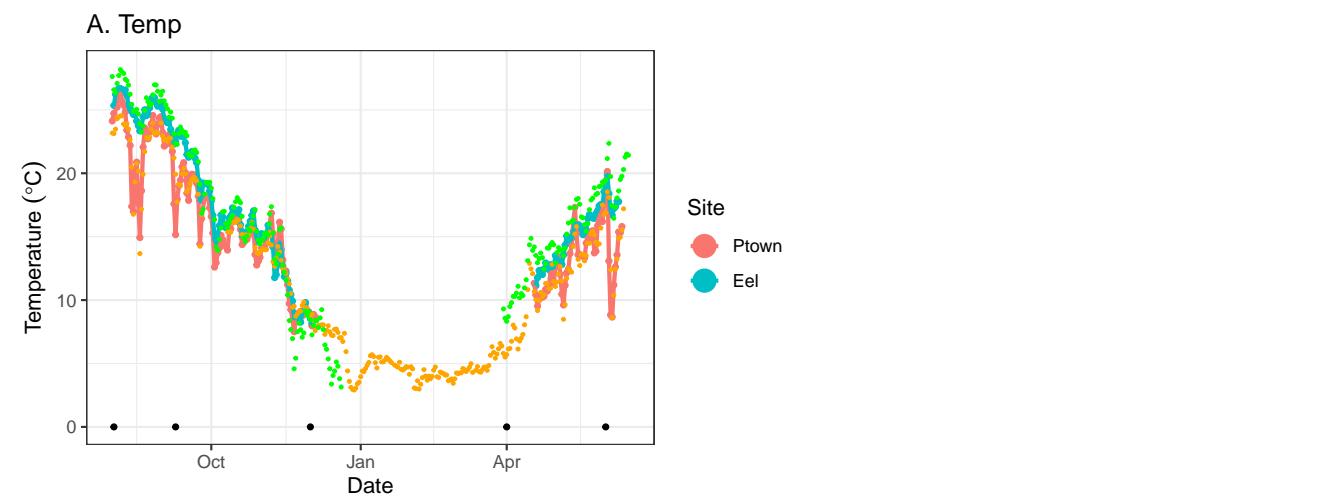
```
(`geom_point()`).
```

```
Warning: Removed 62 rows containing missing values or values outside the scale range  
(`geom_line()`).
```

```
Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom_point()`).
```

```
Warning: Removed 255 rows containing missing values or values outside the scale range  
(`geom_point()`).
```

```
Warning: Removed 333 rows containing missing values or values outside the scale range  
(`geom_point()`).
```



```
ggarrange(gg2, gg1, common.legend = TRUE, legend="bottom", ncol = 2)
```

```
Warning: Removed 64 rows containing missing values or values outside the scale range  
(`geom_point()`).
```

```
Warning: Removed 62 rows containing missing values or values outside the scale range  
(`geom_line()`).
```

Warning: Removed 1 row containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 255 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 333 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 64 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 62 rows containing missing values or values outside the scale range (`geom\_line()`).

Warning: Removed 1 row containing missing values or values outside the scale range (`geom\_point()`).

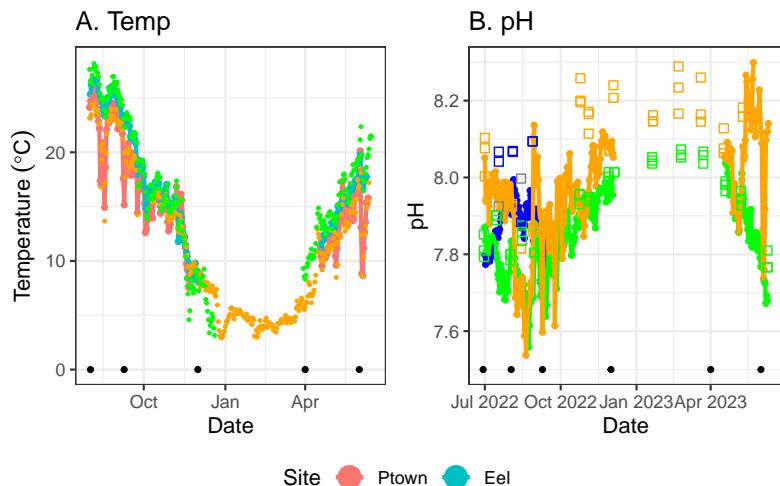
Warning: Removed 255 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 333 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 5 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 2 rows containing missing values or values outside the scale range (`geom\_line()`).

Warning: Removed 17 rows containing missing values or values outside the scale range (`geom\_point()`).



I think I'll go back to the original colors, but this points out the fact that SW temps usually but do not always match. I want to input the HOBO SW temp data and make sure that this matches with the HOBO temp. I want to check that spike in July in Ptown - is this real or not? I also want to check that the HOBO sensor pH readings are not influenced substantially by fouling. To do this I need to check the cleaning schedule. This also suggests that the Eel Pond pH's of 8.1 in December / Jan may not be correct. The daily averages are so stable this seems wrong. I already cut out bad data (pH 7.5) from the SONDE in Eel Pond so this makes me less confident in the dataset generally if there is no explanation.

## 0.6 Sediment temp loggers

```
data_dir <- "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Sediment_temp_loggers"
Eel_sediment <- read.csv(paste(data_dir,"Eel_sediment_425 2023-06-12 13_45_19 EDT (Data EDT)(1)
names(Eel_sediment) <- c("n","Date","Temp","Button.Down")
str(Eel_sediment)
```

```
'data.frame': 30270 obs. of 7 variables:
 $ n          : int  1 2 3 4 5 6 7 8 9 10 ...
 $ Date       : chr  "08/01/2022 07:00:00" "08/01/2022 07:15:00" "08/01/2022 07:30:00" "08/01/2022 07:45:00" ...
 $ Temp        : num  23.8 23.7 23.3 25.7 25.9 ...
```

```
$ Button.Down: chr  "" "" "" "" ...
$ NA          : chr  "" "" "" "" ...
$ NA          : chr  "" "" "" "" ...
$ NA          : chr  "" "" "" "" ...

Eel_sediment$date <- as.POSIXct(Eel_sediment$date, format = "%m/%d/%Y %H:%M:%S")
gg3 <- gg2 +
  geom_point(data = Eel_sediment, aes(x=as.POSIXct(Date),y=Temp), color = "purple", cex = .5)
gg3
```

Warning: Removed 64 rows containing missing values or values outside the scale range  
(`geom\_point()`).

Warning: Removed 62 rows containing missing values or values outside the scale range  
(`geom\_line()`).

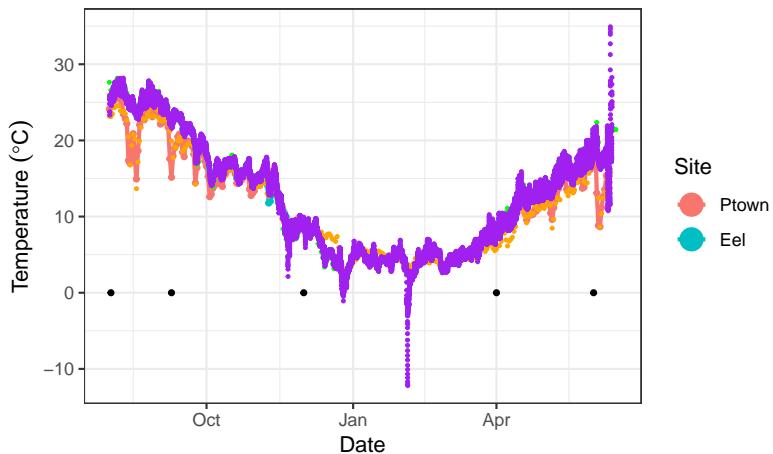
Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom\_point()`).

Warning: Removed 255 rows containing missing values or values outside the scale range  
(`geom\_point()`).

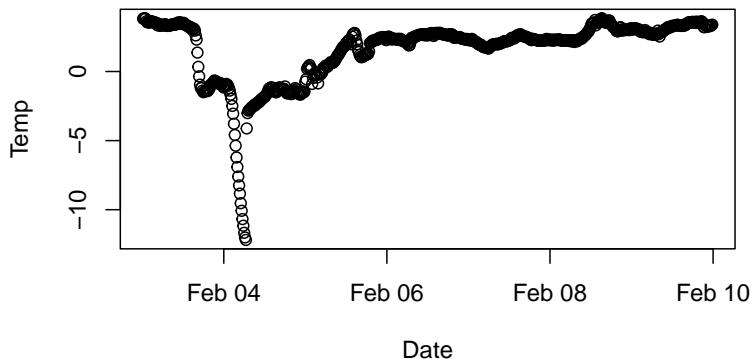
Warning: Removed 333 rows containing missing values or values outside the scale range  
(`geom\_point()`).

Warning: Removed 3 rows containing missing values or values outside the scale range  
(`geom\_point()`).

A. Temp



```
h <- Eel_sediment[Eel_sediment$Date > "2023-02-03" & Eel_sediment$Date < "2023-02-10",]  
plot(data = h, Temp~Date) # -10C is quite low. However, we went out on Feb 21st and late Jan as ...
```



```
data_dir <- "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Sediment_temp_logger  
Ptown_sediment <- read.csv(paste(data_dir, "Ptown_sediment_489 2023-07-19 10_48_26 EDT (Data ED  
names(Ptown_sediment) <- c("n", "Date", "Temp", "Button.Down")  
str(Ptown_sediment)
```

```
'data.frame': 33812 obs. of 8 variables:  
 $ n : int 1 2 3 4 5 6 7 8 9 10 ...
```

```

$ Date      : chr  "08/01/2022 07:00:00" "08/01/2022 07:15:00" "08/01/2022 07:30:00" "08/01/2022 07:45:00" ...
$ Temp      : num  23.5 23.4 23.2 26.4 26.7 ...
$ Button.Down: chr  "" "" "" ...
$ NA        : chr  "" "" ...
$ NA        : chr  "" ...
$ NA        : chr  ...
$ NA        : chr  ...

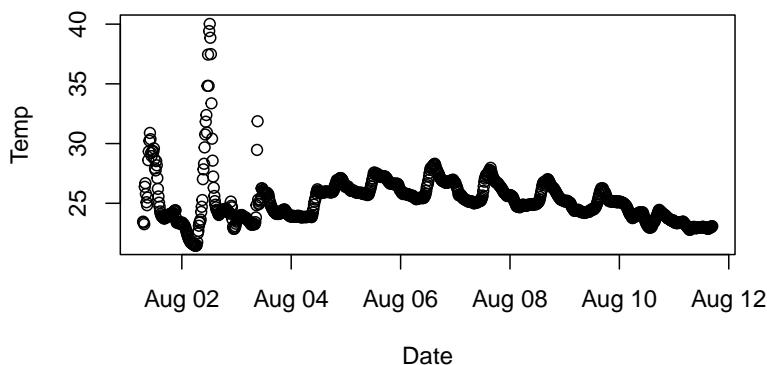
```

```

Ptown_sediment$Date <- as.POSIXct(Ptown_sediment$Date, format = "%m/%d/%Y %H:%M:%S")

h <- head(Ptown_sediment, 1000)
plot(data = h, Temp~Date) #I'm confused because it looks like there are diurnal tidal cycles but

```



```

Ptown_sediment <- Ptown_sediment[Ptown_sediment$Date > "2022-08-05",]

gg3 <- gg2 +
  geom_point(data = Ptown_sediment, aes(x=Date, y=Temp), color = "purple", cex = .1)
gg3

```

Warning: Removed 64 rows containing missing values or values outside the scale range  
(`geom\_point()`).

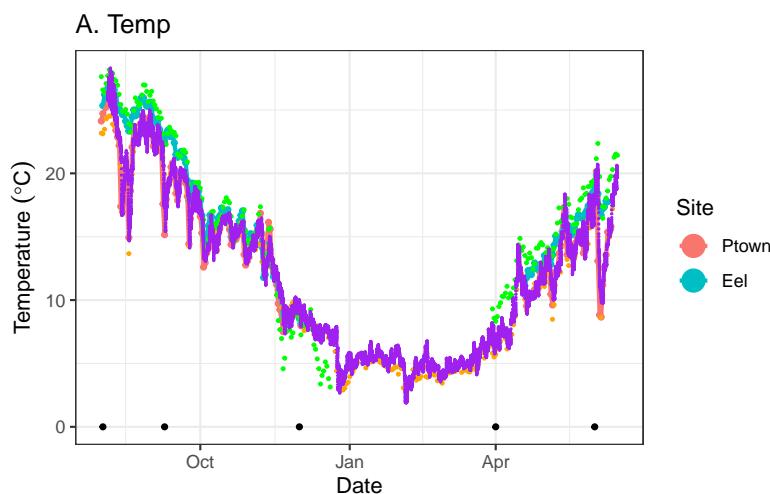
Warning: Removed 62 rows containing missing values or values outside the scale range  
(`geom\_line()`).

```
Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom_point()`).
```

```
Warning: Removed 255 rows containing missing values or values outside the scale range  
(`geom_point()`).
```

```
Warning: Removed 333 rows containing missing values or values outside the scale range  
(`geom_point()`).
```

```
Warning: Removed 3311 rows containing missing values or values outside the scale range  
(`geom_point()`).
```



## 0.7 Conductivity

Eel Pond Fall

```
data_dir <- "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Conductivity/"  
Eel_cond <- read.csv(paste(data_dir,"20674248_Eel_Sal.csv",sep=""), skip = 2, stringsAsFactors = TRUE)  
names(Eel_cond) <- c("n","Date","Cond_High","Temp","Sp.Cond","Sal")  
tail(Eel_cond,500)
```

n		Date	Cond_High	Temp	Sp.Cond	Sal
6539	6540	12/03/22 08:45:00 AM	27148.1	8.72	49261.5	32.1959
6540	6541	12/03/22 09:00:00 AM	27117.5	8.70	49231.4	32.1738
6541	6542	12/03/22 09:15:00 AM	27093.6	8.72	49163.4	32.1241
6542	6543	12/03/22 09:30:00 AM	27041.4	8.71	49082.0	32.0644
6543	6544	12/03/22 09:45:00 AM	27148.1	8.74	49236.5	32.1776
6544	6545	12/03/22 10:00:00 AM	27069.7	8.76	49070.6	32.0561
6545	6546	12/03/22 10:15:00 AM	27034.9	8.78	48983.3	31.9922
6546	6547	12/03/22 10:30:00 AM	27034.9	8.81	48946.0	31.9649
6547	6548	12/03/22 10:45:00 AM	26993.8	8.77	48921.8	31.9472
6548	6549	12/03/22 11:00:00 AM	26976.6	8.81	48841.4	31.8884
6549	6550	12/03/22 11:15:00 AM	27108.8	8.89	48979.4	31.9893
6550	6551	12/03/22 11:30:00 AM	27161.2	8.95	48998.8	32.0036
6551	6552	12/03/22 11:45:00 AM	27330.6	8.98	49264.5	32.1981
6552	6553	12/03/22 12:00:00 PM	27390.5	9.00	49346.6	32.2582
6553	6554	12/03/22 12:15:00 PM	27428.3	9.05	49351.8	32.2620
6554	6555	12/03/22 12:30:00 PM	27446.1	9.08	49346.2	32.2579
6555	6556	12/03/22 12:45:00 PM	27439.4	9.09	49321.8	32.2401
6556	6557	12/03/22 01:00:00 PM	27439.4	9.15	49247.3	32.1855
6557	6558	12/03/22 01:15:00 PM	27426.1	9.15	49223.6	32.1681
6558	6559	12/03/22 01:30:00 PM	27312.9	9.09	49096.3	32.0749
6559	6560	12/03/22 01:45:00 PM	27359.4	9.06	49216.4	32.1629
6560	6561	12/03/22 02:00:00 PM	27282.0	9.10	49028.9	32.0256
6561	6562	12/03/22 02:15:00 PM	27343.9	9.12	49114.4	32.0882
6562	6563	12/03/22 02:30:00 PM	27306.3	9.15	49010.4	32.0120
6563	6564	12/03/22 02:45:00 PM	27359.4	9.23	49006.1	32.0089
6564	6565	12/03/22 03:00:00 PM	27328.4	9.23	48951.0	31.9686
6565	6566	12/03/22 03:15:00 PM	27097.9	9.12	48676.3	31.7677
6566	6567	12/03/22 03:30:00 PM	27240.1	9.14	48904.9	31.9348
6567	6568	12/03/22 03:45:00 PM	27522.2	9.34	49159.2	32.1209
6568	6569	12/03/22 04:00:00 PM	27805.5	9.60	49338.5	32.2523
6569	6570	12/03/22 04:15:00 PM	27869.7	9.59	49463.9	32.3442
6570	6571	12/03/22 04:30:00 PM	27862.8	9.58	49464.1	32.3443
6571	6572	12/03/22 04:45:00 PM	27837.6	9.58	49419.7	32.3118
6572	6573	12/03/22 05:00:00 PM	27798.6	9.57	49363.4	32.2705
6573	6574	12/03/22 05:15:00 PM	27805.5	9.58	49363.2	32.2704
6574	6575	12/03/22 05:30:00 PM	27741.5	9.61	49213.6	32.1608
6575	6576	12/03/22 05:45:00 PM	27874.3	9.69	49348.5	32.2596
6576	6577	12/03/22 06:00:00 PM	27918.1	9.76	49339.2	32.2528
6577	6578	12/03/22 06:15:00 PM	27885.8	9.77	49270.2	32.2023
6578	6579	12/03/22 06:30:00 PM	27973.6	9.79	49399.5	32.2970

6579	6580	12/03/22	06:45:00	PM	27980.5	9.81	49387.0	32.2878
6580	6581	12/03/22	07:00:00	PM	28006.1	9.82	49419.5	32.3116
6581	6582	12/03/22	07:15:00	PM	28010.7	9.84	49402.9	32.2995
6582	6583	12/03/22	07:30:00	PM	27895.1	9.86	49176.1	32.1334
6583	6584	12/03/22	07:45:00	PM	27768.9	9.90	48906.7	31.9362
6584	6585	12/03/22	08:00:00	PM	27732.4	9.95	48782.2	31.8451
6585	6586	12/03/22	08:15:00	PM	27787.2	9.97	48853.5	31.8973
6586	6587	12/03/22	08:30:00	PM	27823.8	9.93	48966.0	31.9796
6587	6588	12/03/22	08:45:00	PM	27805.5	9.93	48934.1	31.9562
6588	6589	12/03/22	09:00:00	PM	27837.6	9.91	49014.5	32.0151
6589	6590	12/03/22	09:15:00	PM	27950.4	9.97	49138.2	32.1056
6590	6591	12/03/22	09:30:00	PM	27952.8	9.99	49117.9	32.0908
6591	6592	12/03/22	09:45:00	PM	27925.0	10.01	49045.1	32.0374
6592	6593	12/03/22	10:00:00	PM	27849.1	9.99	48937.2	31.9585
6593	6594	12/03/22	10:15:00	PM	27842.2	9.99	48925.1	31.9496
6594	6595	12/03/22	10:30:00	PM	27837.6	10.01	48892.8	31.9260
6595	6596	12/03/22	10:45:00	PM	27862.8	10.02	48924.6	31.9492
6596	6597	12/03/22	11:00:00	PM	27876.6	10.02	48948.6	31.9668
6597	6598	12/03/22	11:15:00	PM	27881.2	10.02	48956.6	31.9727
6598	6599	12/03/22	11:30:00	PM	27816.9	9.95	48929.7	31.9530
6599	6600	12/03/22	11:45:00	PM	27748.4	9.87	48907.4	31.9367
6600	6601	12/04/22	12:00:00	AM	27700.6	9.82	48884.7	31.9200
6601	6602	12/04/22	12:15:00	AM	27664.3	9.79	48857.6	31.9003
6602	6603	12/04/22	12:30:00	AM	27614.5	9.77	48794.7	31.8543
6603	6604	12/04/22	12:45:00	AM	27517.7	9.65	48770.9	31.8369
6604	6605	12/04/22	01:00:00	AM	27282.0	9.59	48429.2	31.5871
6605	6606	12/04/22	01:15:00	AM	27352.7	9.55	48602.3	31.7136
6606	6607	12/04/22	01:30:00	AM	27224.7	9.48	48461.6	31.6108
6607	6608	12/04/22	01:45:00	AM	27058.8	9.38	48289.7	31.4853
6608	6609	12/04/22	02:00:00	AM	26983.0	9.36	48179.7	31.4050
6609	6610	12/04/22	02:15:00	AM	26832.7	9.25	48046.2	31.3076
6610	6611	12/04/22	02:30:00	AM	26766.7	9.11	48098.4	31.3457
6611	6612	12/04/22	02:45:00	AM	26732.7	9.10	48049.9	31.3103
6612	6613	12/04/22	03:00:00	AM	26641.9	8.98	48033.4	31.2983
6613	6614	12/04/22	03:15:00	AM	26549.5	8.73	48172.3	31.3996
6614	6615	12/04/22	03:30:00	AM	26553.7	8.83	48057.9	31.3161
6615	6616	12/04/22	03:45:00	AM	26503.6	8.77	48041.0	31.3038
6616	6617	12/04/22	04:00:00	AM	26499.4	8.73	48082.2	31.3339
6617	6618	12/04/22	04:15:00	AM	26346.0	8.45	48148.0	31.3819
6618	6619	12/04/22	04:30:00	AM	26564.2	8.85	48052.3	31.3121
6619	6620	12/04/22	04:45:00	AM	27268.7	9.17	48918.8	31.9450

6620	6621	12/04/22	05:00:00	AM	27374.9	9.21	49058.3	32.0471
6621	6622	12/04/22	05:15:00	AM	27455.1	9.26	49139.0	32.1062
6622	6623	12/04/22	05:30:00	AM	27497.6	9.28	49189.7	32.1433
6623	6624	12/04/22	05:45:00	AM	27517.7	9.27	49237.7	32.1785
6624	6625	12/04/22	06:00:00	AM	27540.2	9.26	49290.0	32.2168
6625	6626	12/04/22	06:15:00	AM	27578.4	9.28	49333.0	32.2483
6626	6627	12/04/22	06:30:00	AM	27553.7	9.28	49289.2	32.2162
6627	6628	12/04/22	06:45:00	AM	27508.8	9.27	49221.9	32.1669
6628	6629	12/04/22	07:00:00	AM	27511.0	9.31	49176.4	32.1335
6629	6630	12/04/22	07:15:00	AM	27486.4	9.27	49182.2	32.1378
6630	6631	12/04/22	07:30:00	AM	27490.8	9.27	49190.0	32.1435
6631	6632	12/04/22	07:45:00	AM	27576.2	9.34	49254.8	32.1910
6632	6633	12/04/22	08:00:00	AM	27621.3	9.32	49359.5	32.2677
6633	6634	12/04/22	08:15:00	AM	27643.9	9.33	49387.1	32.2879
6634	6635	12/04/22	08:30:00	AM	27553.7	9.16	49438.2	32.3254
6635	6636	12/04/22	08:45:00	AM	27623.5	9.23	49475.2	32.3525
6636	6637	12/04/22	09:00:00	AM	27677.9	9.27	49522.0	32.3868
6637	6638	12/04/22	09:15:00	AM	27682.4	9.28	49517.5	32.3835
6638	6639	12/04/22	09:30:00	AM	27714.2	9.33	49511.7	32.3792
6639	6640	12/04/22	09:45:00	AM	27659.7	9.26	49502.1	32.3722
6640	6641	12/04/22	10:00:00	AM	27639.4	9.23	49503.4	32.3732
6641	6642	12/04/22	10:15:00	AM	27671.1	9.23	49559.7	32.4144
6642	6643	12/04/22	10:30:00	AM	27677.9	9.36	49410.1	32.3048
6643	6644	12/04/22	10:45:00	AM	27673.3	9.34	49426.8	32.3170
6644	6645	12/04/22	11:00:00	AM	27662.0	9.22	49556.0	32.4117
6645	6646	12/04/22	11:15:00	AM	27533.4	9.19	49364.8	32.2716
6646	6647	12/04/22	11:30:00	AM	27346.1	8.88	49416.9	32.3098
6647	6648	12/04/22	11:45:00	AM	27614.5	9.17	49533.9	32.3955
6648	6649	12/04/22	12:00:00	PM	27662.0	9.23	49543.6	32.4026
6649	6650	12/04/22	12:15:00	PM	27637.1	9.20	49536.7	32.3976
6650	6651	12/04/22	12:30:00	PM	27310.7	9.00	49204.0	32.1538
6651	6652	12/04/22	12:45:00	PM	27401.6	9.03	49329.0	32.2454
6652	6653	12/04/22	01:00:00	PM	27441.7	9.06	49363.2	32.2704
6653	6654	12/04/22	01:15:00	PM	27354.9	9.06	49208.4	32.1570
6654	6655	12/04/22	01:30:00	PM	27455.1	9.12	49312.5	32.2332
6655	6656	12/04/22	01:45:00	PM	27152.4	9.04	48871.9	31.9107
6656	6657	12/04/22	02:00:00	PM	27058.8	9.05	48692.5	31.7795
6657	6658	12/04/22	02:15:00	PM	26888.4	9.10	48327.4	31.5128
6658	6659	12/04/22	02:30:00	PM	26888.4	9.10	48327.4	31.5128
6659	6660	12/04/22	02:45:00	PM	26952.8	9.08	48466.7	31.6145
6660	6661	12/04/22	03:00:00	PM	26939.9	9.05	48480.4	31.6245

6661	6662	12/04/22	03:15:00	PM	26939.9	9.00	48541.6	31.6693
6662	6663	12/04/22	03:30:00	PM	26888.4	9.01	48437.4	31.5931
6663	6664	12/04/22	03:45:00	PM	26837.0	8.98	48382.2	31.5528
6664	6665	12/04/22	04:00:00	PM	26747.6	9.00	48198.0	31.4184
6665	6666	12/04/22	04:15:00	PM	26713.7	8.94	48210.5	31.4275
6666	6667	12/04/22	04:30:00	PM	26245.4	8.71	47649.5	31.0184
6667	6668	12/04/22	04:45:00	PM	26470.2	8.88	47847.4	31.1626
6668	6669	12/04/22	05:00:00	PM	27211.6	9.16	48829.5	31.8797
6669	6670	12/04/22	05:15:00	PM	27426.1	9.16	49211.2	32.1591
6670	6671	12/04/22	05:30:00	PM	27481.9	9.17	49298.1	32.2227
6671	6672	12/04/22	05:45:00	PM	27499.8	9.21	49280.3	32.2096
6672	6673	12/04/22	06:00:00	PM	27612.3	9.20	49492.6	32.3653
6673	6674	12/04/22	06:15:00	PM	27634.8	9.20	49532.6	32.3946
6674	6675	12/04/22	06:30:00	PM	27495.3	9.22	49259.9	32.1947
6675	6676	12/04/22	06:45:00	PM	27531.2	9.20	49348.5	32.2596
6676	6677	12/04/22	07:00:00	PM	27659.7	9.19	49589.4	32.4362
6677	6678	12/04/22	07:15:00	PM	27587.4	9.20	49448.4	32.3328
6678	6679	12/04/22	07:30:00	PM	27623.5	9.20	49512.5	32.3799
6679	6680	12/04/22	07:45:00	PM	27598.7	9.16	49518.3	32.3841
6680	6681	12/04/22	08:00:00	PM	27723.3	9.22	49664.9	32.4916
6681	6682	12/04/22	08:15:00	PM	27582.9	9.20	49440.4	32.3270
6682	6683	12/04/22	08:30:00	PM	27610.0	9.11	49600.8	32.4446
6683	6684	12/04/22	08:45:00	PM	27634.8	9.17	49570.0	32.4220
6684	6685	12/04/22	09:00:00	PM	27657.5	9.15	49635.4	32.4699
6685	6686	12/04/22	09:15:00	PM	27481.9	9.10	49385.1	32.2864
6686	6687	12/04/22	09:30:00	PM	27490.8	8.87	49688.7	32.5091
6687	6688	12/04/22	09:45:00	PM	27255.5	8.98	49130.2	32.0998
6688	6689	12/04/22	10:00:00	PM	27286.4	8.92	49260.1	32.1949
6689	6690	12/04/22	10:15:00	PM	27412.7	8.93	49473.7	32.3513
6690	6691	12/04/22	10:30:00	PM	27533.4	8.96	49652.0	32.4821
6691	6692	12/04/22	10:45:00	PM	27477.4	8.98	49526.8	32.3903
6692	6693	12/04/22	11:00:00	PM	27472.9	8.93	49581.4	32.4303
6693	6694	12/04/22	11:15:00	PM	27515.5	8.88	49720.4	32.5323
6694	6695	12/04/22	11:30:00	PM	27497.6	8.83	49751.3	32.5549
6695	6696	12/04/22	11:45:00	PM	27286.4	8.73	49497.7	32.3690
6696	6697	12/05/22	12:00:00	AM	26920.6	8.38	49276.7	32.2070
6697	6698	12/05/22	12:15:00	AM	26405.9	7.87	48978.8	31.9889
6698	6699	12/05/22	12:30:00	AM	26568.4	8.03	49075.2	32.0595
6699	6700	12/05/22	12:45:00	AM	26080.6	7.48	48870.6	31.9097
6700	6701	12/05/22	01:00:00	AM	26198.4	7.47	49101.9	32.0790
6701	6702	12/05/22	01:15:00	AM	26125.2	7.64	48751.2	31.8224

6702	6703	12/05/22	01:30:00	AM	26184.1	7.59	48923.2	31.9483
6703	6704	12/05/22	01:45:00	AM	25690.1	7.21	48484.4	31.6275
6704	6705	12/05/22	02:00:00	AM	25588.3	7.13	48394.9	31.5621
6705	6706	12/05/22	02:15:00	AM	25312.3	6.95	48103.4	31.3493
6706	6707	12/05/22	02:30:00	AM	26509.8	8.01	48993.1	31.9994
6707	6708	12/05/22	02:45:00	AM	25427.4	7.21	47993.4	31.2691
6708	6709	12/05/22	03:00:00	AM	25741.2	7.36	48390.9	31.5592
6709	6710	12/05/22	03:15:00	AM	25701.9	7.41	48255.1	31.4600
6710	6711	12/05/22	03:30:00	AM	25969.9	7.70	48389.0	31.5578
6711	6712	12/05/22	03:45:00	AM	26282.3	7.82	48814.4	31.8687
6712	6713	12/05/22	04:00:00	AM	26145.5	7.74	48662.9	31.7579
6713	6714	12/05/22	04:15:00	AM	25790.6	7.20	48684.9	31.7740
6714	6715	12/05/22	04:30:00	AM	25899.9	7.44	48585.5	31.7013
6715	6716	12/05/22	04:45:00	AM	26957.2	8.22	49545.1	32.4037
6716	6717	12/05/22	05:00:00	AM	27421.6	8.67	49816.6	32.6029
6717	6718	12/05/22	05:15:00	AM	27432.8	8.62	49900.1	32.6641
6718	6719	12/05/22	05:30:00	AM	27359.4	8.61	49780.4	32.5763
6719	6720	12/05/22	05:45:00	AM	27401.6	8.61	49856.5	32.6321
6720	6721	12/05/22	06:00:00	AM	27282.0	8.60	49653.4	32.4831
6721	6722	12/05/22	06:15:00	AM	27386.0	8.58	49866.3	32.6394
6722	6723	12/05/22	06:30:00	AM	27386.0	8.57	49879.0	32.6487
6723	6724	12/05/22	06:45:00	AM	27403.8	8.60	49873.1	32.6443
6724	6725	12/05/22	07:00:00	AM	27306.3	8.57	49735.1	32.5431
6725	6726	12/05/22	07:15:00	AM	26918.4	8.62	48972.5	31.9843
6726	6727	12/05/22	07:30:00	AM	27397.1	8.56	49911.7	32.6727
6727	6728	12/05/22	07:45:00	AM	27417.2	8.57	49935.3	32.6900
6728	6729	12/05/22	08:00:00	AM	27421.6	8.56	49956.0	32.7052
6729	6730	12/05/22	08:15:00	AM	27488.6	8.62	50000.7	32.7380
6730	6731	12/05/22	08:30:00	AM	27439.4	8.60	49937.3	32.6915
6731	6732	12/05/22	08:45:00	AM	27526.7	8.62	50069.3	32.7884
6732	6733	12/05/22	09:00:00	AM	26980.9	8.63	49072.7	32.0577
6733	6734	12/05/22	09:15:00	AM	27555.9	8.60	50147.5	32.8458
6734	6735	12/05/22	09:30:00	AM	27432.8	8.56	49976.2	32.7200
6735	6736	12/05/22	09:45:00	AM	27392.7	8.56	49903.8	32.6669
6736	6737	12/05/22	10:00:00	AM	27567.2	8.62	50142.4	32.8421
6737	6738	12/05/22	10:15:00	AM	27310.7	8.63	49667.3	32.4933
6738	6739	12/05/22	10:30:00	AM	26955.0	8.62	49038.5	32.0326
6739	6740	12/05/22	10:45:00	AM	27589.7	8.61	50195.7	32.8813
6740	6741	12/05/22	11:00:00	AM	27625.8	8.62	50248.0	32.9197
6741	6742	12/05/22	11:15:00	AM	26399.7	8.63	48024.7	31.2919
6742	6743	12/05/22	11:30:00	AM	27668.8	8.71	50210.7	32.8923

6743	6744	12/05/22	11:45:00	AM	27634.8	8.70	50162.3	32.8567
6744	6745	12/05/22	12:00:00	PM	27709.7	8.81	50157.1	32.8529
6745	6746	12/05/22	12:15:00	PM	27689.2	8.78	50158.4	32.8538
6746	6747	12/05/22	12:30:00	PM	27700.6	8.81	50140.7	32.8409
6747	6748	12/05/22	12:45:00	PM	27619.0	8.82	49981.7	32.7240
6748	6749	12/05/22	01:00:00	PM	27700.6	8.79	50166.1	32.8595
6749	6750	12/05/22	01:15:00	PM	27668.8	8.79	50109.0	32.8176
6750	6751	12/05/22	01:30:00	PM	27709.7	8.79	50182.5	32.8715
6751	6752	12/05/22	01:45:00	PM	27664.3	8.78	50113.7	32.8210
6752	6753	12/05/22	02:00:00	PM	27625.8	8.77	50057.2	32.7795
6753	6754	12/05/22	02:15:00	PM	27591.9	8.72	50059.7	32.7814
6754	6755	12/05/22	02:30:00	PM	27564.9	8.73	49998.5	32.7364
6755	6756	12/05/22	02:45:00	PM	27484.1	8.68	49916.5	32.6762
6756	6757	12/05/22	03:00:00	PM	27472.9	8.71	49858.3	32.6335
6757	6758	12/05/22	03:15:00	PM	27348.3	8.68	49672.0	32.4968
6758	6759	12/05/22	03:30:00	PM	27251.1	8.62	49572.4	32.4238
6759	6760	12/05/22	03:45:00	PM	27183.1	8.56	49525.3	32.3892
6760	6761	12/05/22	04:00:00	PM	27078.3	8.50	49411.4	32.3057
6761	6762	12/05/22	04:15:00	PM	26996.0	8.45	49325.3	32.2426
6762	6763	12/05/22	04:30:00	PM	26924.9	8.39	49271.9	32.2035
6763	6764	12/05/22	04:45:00	PM	26849.8	8.34	49198.4	32.1497
6764	6765	12/05/22	05:00:00	PM	917.9	7.15	1754.5	0.8865
6765	6766	12/05/22	05:15:00	PM	825.8	6.67	1599.3	0.8045
6766	6767	12/05/22	05:30:00	PM	777.0	6.39	1516.4	0.7610
6767	6768	12/05/22	05:45:00	PM	563.3	7.14	1077.2	0.5328
6768	6769	12/05/22	06:00:00	PM	531.3	7.62	1002.9	0.4947
6769	6770	12/05/22	06:15:00	PM	550.5	9.72	983.1	0.4846
6770	6771	12/05/22	06:30:00	PM	561.9	12.21	942.0	0.4636
6771	6772	12/05/22	06:45:00	PM	563.8	13.64	912.6	0.4486
6772	6773	12/05/22	07:00:00	PM	568.8	14.08	910.9	0.4478
6773	6774	12/05/22	07:15:00	PM	603.6	14.60	954.7	0.4701
6774	6775	12/05/22	07:30:00	PM	640.2	15.33	995.2	0.4907
6775	6776	12/05/22	07:45:00	PM	663.4	16.16	1011.3	0.4990
6776	6777	12/05/22	08:00:00	PM	671.0	15.56	1037.4	0.5124
6777	6778	12/05/22	08:15:00	PM	673.5	14.25	1074.2	0.5312
6778	6779	12/05/22	08:30:00	PM	617.1	14.20	985.4	0.4858
6779	6780	12/05/22	08:45:00	PM	514.7	14.75	811.2	0.3972
6780	6781	12/05/22	09:00:00	PM	338.1	15.07	528.8	0.2561
6781	6782	12/05/22	09:15:00	PM	251.6	14.94	394.8	0.1905
6782	6783	12/05/22	09:30:00	PM	307.8	15.55	476.0	0.2301
6783	6784	12/05/22	09:45:00	PM	225.7	15.25	351.5	0.1695

6784	6785	12/05/22	10:00:00	PM	80.4	14.09	128.7	0.0647
6785	6786	12/05/22	10:15:00	PM	0.0	15.56	0.0	0.0123
6786	6787	12/05/22	10:30:00	PM	0.0	17.93	0.0	0.0123
6787	6788	12/05/22	10:45:00	PM	0.0	19.46	0.0	0.0123
6788	6789	12/05/22	11:00:00	PM	0.0	20.33	0.0	0.0123
6789	6790	12/05/22	11:15:00	PM	0.0	20.80	0.0	0.0123
6790	6791	12/05/22	11:30:00	PM	0.0	21.04	0.0	0.0123
6791	6792	12/05/22	11:45:00	PM	0.0	21.14	0.0	0.0123
6792	6793	12/06/22	12:00:00	AM	0.0	21.30	0.0	0.0123
6793	6794	12/06/22	12:15:00	AM	0.0	21.46	0.0	0.0123
6794	6795	12/06/22	12:30:00	AM	0.0	21.58	0.0	0.0123
6795	6796	12/06/22	12:45:00	AM	0.0	21.56	0.0	0.0123
6796	6797	12/06/22	01:00:00	AM	0.0	21.60	0.0	0.0123
6797	6798	12/06/22	01:15:00	AM	0.0	21.76	0.0	0.0123
6798	6799	12/06/22	01:30:00	AM	0.0	21.83	0.0	0.0123
6799	6800	12/06/22	01:45:00	AM	0.0	21.80	0.0	0.0123
6800	6801	12/06/22	02:00:00	AM	0.0	21.70	0.0	0.0123
6801	6802	12/06/22	02:15:00	AM	0.0	21.75	0.0	0.0123
6802	6803	12/06/22	02:30:00	AM	0.0	21.81	0.0	0.0123
6803	6804	12/06/22	02:45:00	AM	0.0	21.92	0.0	0.0123
6804	6805	12/06/22	03:00:00	AM	0.0	21.92	0.0	0.0123
6805	6806	12/06/22	03:15:00	AM	0.0	21.86	0.0	0.0123
6806	6807	12/06/22	03:30:00	AM	0.0	21.92	0.0	0.0123
6807	6808	12/06/22	03:45:00	AM	0.0	21.96	0.0	0.0123
6808	6809	12/06/22	04:00:00	AM	0.0	21.92	0.0	0.0123
6809	6810	12/06/22	04:15:00	AM	0.0	21.81	0.0	0.0123
6810	6811	12/06/22	04:30:00	AM	0.0	21.86	0.0	0.0123
6811	6812	12/06/22	04:45:00	AM	0.0	21.98	0.0	0.0123
6812	6813	12/06/22	05:00:00	AM	0.0	22.02	0.0	0.0123
6813	6814	12/06/22	05:15:00	AM	0.0	22.00	0.0	0.0123
6814	6815	12/06/22	05:30:00	AM	0.0	21.87	0.0	0.0123
6815	6816	12/06/22	05:45:00	AM	0.0	21.87	0.0	0.0123
6816	6817	12/06/22	06:00:00	AM	0.0	21.96	0.0	0.0123
6817	6818	12/06/22	06:15:00	AM	0.0	22.00	0.0	0.0123
6818	6819	12/06/22	06:30:00	AM	0.0	22.01	0.0	0.0123
6819	6820	12/06/22	06:45:00	AM	0.0	21.90	0.0	0.0123
6820	6821	12/06/22	07:00:00	AM	0.0	21.95	0.0	0.0123
6821	6822	12/06/22	07:15:00	AM	0.0	22.00	0.0	0.0123
6822	6823	12/06/22	07:30:00	AM	0.0	22.02	0.0	0.0123
6823	6824	12/06/22	07:45:00	AM	0.0	21.95	0.0	0.0123
6824	6825	12/06/22	08:00:00	AM	0.0	21.89	0.0	0.0123

6825	6826	12/06/22	08:15:00	AM	0.0	22.01	0.0	0.0123
6826	6827	12/06/22	08:30:00	AM	0.0	22.12	0.0	0.0123
6827	6828	12/06/22	08:45:00	AM	0.0	22.11	0.0	0.0123
6828	6829	12/06/22	09:00:00	AM	0.0	21.98	0.0	0.0123
6829	6830	12/06/22	09:15:00	AM	0.0	22.07	0.0	0.0123
6830	6831	12/06/22	09:30:00	AM	0.0	22.16	0.0	0.0123
6831	6832	12/06/22	09:45:00	AM	0.0	22.19	0.0	0.0123
6832	6833	12/06/22	10:00:00	AM	0.0	22.13	0.0	0.0123
6833	6834	12/06/22	10:15:00	AM	0.0	22.13	0.0	0.0123
6834	6835	12/06/22	10:30:00	AM	0.0	22.21	0.0	0.0123
6835	6836	12/06/22	10:45:00	AM	0.0	22.22	0.0	0.0123
6836	6837	12/06/22	11:00:00	AM	0.0	22.11	0.0	0.0123
6837	6838	12/06/22	11:15:00	AM	0.0	22.19	0.0	0.0123
6838	6839	12/06/22	11:30:00	AM	0.0	22.27	0.0	0.0123
6839	6840	12/06/22	11:45:00	AM	0.0	22.22	0.0	0.0123
6840	6841	12/06/22	12:00:00	PM	0.0	22.23	0.0	0.0123
6841	6842	12/06/22	12:15:00	PM	0.0	22.29	0.0	0.0123
6842	6843	12/06/22	12:30:00	PM	0.0	22.28	0.0	0.0123
6843	6844	12/06/22	12:45:00	PM	0.0	22.21	0.0	0.0123
6844	6845	12/06/22	01:00:00	PM	0.0	22.32	0.0	0.0123
6845	6846	12/06/22	01:15:00	PM	0.0	22.36	0.0	0.0123
6846	6847	12/06/22	01:30:00	PM	0.0	22.25	0.0	0.0123
6847	6848	12/06/22	01:45:00	PM	0.0	22.27	0.0	0.0123
6848	6849	12/06/22	02:00:00	PM	0.0	22.34	0.0	0.0123
6849	6850	12/06/22	02:15:00	PM	0.0	22.32	0.0	0.0123
6850	6851	12/06/22	02:30:00	PM	0.0	22.30	0.0	0.0123
6851	6852	12/06/22	02:45:00	PM	0.0	22.39	0.0	0.0123
6852	6853	12/06/22	03:00:00	PM	0.0	22.38	0.0	0.0123
6853	6854	12/06/22	03:15:00	PM	0.0	22.32	0.0	0.0123
6854	6855	12/06/22	03:30:00	PM	0.0	22.39	0.0	0.0123
6855	6856	12/06/22	03:45:00	PM	0.0	22.40	0.0	0.0123
6856	6857	12/06/22	04:00:00	PM	0.0	22.35	0.0	0.0123
6857	6858	12/06/22	04:15:00	PM	0.0	22.43	0.0	0.0123
6858	6859	12/06/22	04:30:00	PM	0.0	22.46	0.0	0.0123
6859	6860	12/06/22	04:45:00	PM	0.0	22.38	0.0	0.0123
6860	6861	12/06/22	05:00:00	PM	0.0	22.48	0.0	0.0123
6861	6862	12/06/22	05:15:00	PM	0.0	22.45	0.0	0.0123
6862	6863	12/06/22	05:30:00	PM	0.0	22.48	0.0	0.0123
6863	6864	12/06/22	05:45:00	PM	0.0	22.51	0.0	0.0123
6864	6865	12/06/22	06:00:00	PM	0.0	22.39	0.0	0.0123
6865	6866	12/06/22	06:15:00	PM	0.0	22.43	0.0	0.0123

6866	6867	12/06/22	06:30:00	PM	0.0	22.49	0.0	0.0123
6867	6868	12/06/22	06:45:00	PM	0.0	22.39	0.0	0.0123
6868	6869	12/06/22	07:00:00	PM	0.0	22.49	0.0	0.0123
6869	6870	12/06/22	07:15:00	PM	0.0	22.52	0.0	0.0123
6870	6871	12/06/22	07:30:00	PM	0.0	22.40	0.0	0.0123
6871	6872	12/06/22	07:45:00	PM	0.0	22.48	0.0	0.0123
6872	6873	12/06/22	08:00:00	PM	0.0	22.50	0.0	0.0123
6873	6874	12/06/22	08:15:00	PM	0.0	22.38	0.0	0.0123
6874	6875	12/06/22	08:30:00	PM	0.0	22.48	0.0	0.0123
6875	6876	12/06/22	08:45:00	PM	0.0	22.52	0.0	0.0123
6876	6877	12/06/22	09:00:00	PM	0.0	22.41	0.0	0.0123
6877	6878	12/06/22	09:15:00	PM	0.0	22.50	0.0	0.0123
6878	6879	12/06/22	09:30:00	PM	0.0	22.50	0.0	0.0123
6879	6880	12/06/22	09:45:00	PM	0.0	22.40	0.0	0.0123
6880	6881	12/06/22	10:00:00	PM	0.0	22.51	0.0	0.0123
6881	6882	12/06/22	10:15:00	PM	0.0	22.52	0.0	0.0123
6882	6883	12/06/22	10:30:00	PM	0.0	22.45	0.0	0.0123
6883	6884	12/06/22	10:45:00	PM	0.0	22.48	0.0	0.0123
6884	6885	12/06/22	11:00:00	PM	0.0	22.46	0.0	0.0123
6885	6886	12/06/22	11:15:00	PM	0.0	22.39	0.0	0.0123
6886	6887	12/06/22	11:30:00	PM	0.0	22.50	0.0	0.0123
6887	6888	12/06/22	11:45:00	PM	0.0	22.50	0.0	0.0123
6888	6889	12/07/22	12:00:00	AM	0.0	22.44	0.0	0.0123
6889	6890	12/07/22	12:15:00	AM	0.0	22.51	0.0	0.0123
6890	6891	12/07/22	12:30:00	AM	0.0	22.49	0.0	0.0123
6891	6892	12/07/22	12:45:00	AM	0.0	22.50	0.0	0.0123
6892	6893	12/07/22	01:00:00	AM	0.0	22.59	0.0	0.0123
6893	6894	12/07/22	01:15:00	AM	0.0	22.56	0.0	0.0123
6894	6895	12/07/22	01:30:00	AM	0.0	22.65	0.0	0.0123
6895	6896	12/07/22	01:45:00	AM	0.0	22.67	0.0	0.0123
6896	6897	12/07/22	02:00:00	AM	0.0	22.59	0.0	0.0123
6897	6898	12/07/22	02:15:00	AM	0.0	22.67	0.0	0.0123
6898	6899	12/07/22	02:30:00	AM	0.0	22.66	0.0	0.0123
6899	6900	12/07/22	02:45:00	AM	0.0	22.71	0.0	0.0123
6900	6901	12/07/22	03:00:00	AM	0.0	22.72	0.0	0.0123
6901	6902	12/07/22	03:15:00	AM	0.0	22.60	0.0	0.0123
6902	6903	12/07/22	03:30:00	AM	0.0	22.68	0.0	0.0123
6903	6904	12/07/22	03:45:00	AM	0.0	22.68	0.0	0.0123
6904	6905	12/07/22	04:00:00	AM	0.0	22.63	0.0	0.0123
6905	6906	12/07/22	04:15:00	AM	0.0	22.74	0.0	0.0123
6906	6907	12/07/22	04:30:00	AM	0.0	22.59	0.0	0.0123

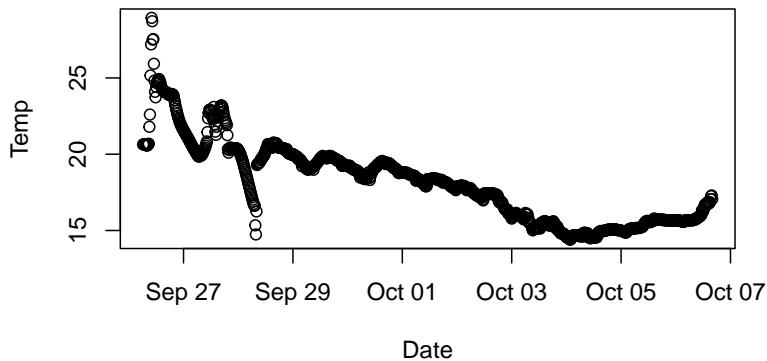
6907	6908	12/07/22	04:45:00	AM	0.0	22.65	0.0	0.0123
6908	6909	12/07/22	05:00:00	AM	0.0	22.71	0.0	0.0123
6909	6910	12/07/22	05:15:00	AM	0.0	22.59	0.0	0.0123
6910	6911	12/07/22	05:30:00	AM	0.0	22.71	0.0	0.0123
6911	6912	12/07/22	05:45:00	AM	0.0	22.62	0.0	0.0123
6912	6913	12/07/22	06:00:00	AM	0.0	22.68	0.0	0.0123
6913	6914	12/07/22	06:15:00	AM	0.0	22.70	0.0	0.0123
6914	6915	12/07/22	06:30:00	AM	0.0	22.57	0.0	0.0123
6915	6916	12/07/22	06:45:00	AM	0.0	22.67	0.0	0.0123
6916	6917	12/07/22	07:00:00	AM	0.0	22.66	0.0	0.0123
6917	6918	12/07/22	07:15:00	AM	0.0	22.68	0.0	0.0123
6918	6919	12/07/22	07:30:00	AM	0.0	22.72	0.0	0.0123
6919	6920	12/07/22	07:45:00	AM	0.0	22.61	0.0	0.0123
6920	6921	12/07/22	08:00:00	AM	0.0	22.70	0.0	0.0123
6921	6922	12/07/22	08:15:00	AM	0.0	22.61	0.0	0.0123
6922	6923	12/07/22	08:30:00	AM	0.0	22.67	0.0	0.0123
6923	6924	12/07/22	08:45:00	AM	0.0	22.77	0.0	0.0123
6924	6925	12/07/22	09:00:00	AM	0.0	22.68	0.0	0.0123
6925	6926	12/07/22	09:15:00	AM	0.0	22.76	0.0	0.0123
6926	6927	12/07/22	09:30:00	AM	0.0	22.61	0.0	0.0123
6927	6928	12/07/22	09:45:00	AM	0.0	22.71	0.0	0.0123
6928	6929	12/07/22	10:00:00	AM	0.0	18.93	0.0	0.0123
6929	6930	12/07/22	10:15:00	AM	0.0	16.36	0.0	0.0123
6930	6931	12/07/22	10:30:00	AM	0.0	15.60	0.0	0.0123
6931	6932	12/07/22	10:45:00	AM	0.0	15.27	0.0	0.0123
6932	6933	12/07/22	11:00:00	AM	0.0	15.12	0.0	0.0123
6933	6934	12/07/22	11:15:00	AM	0.0	15.03	0.0	0.0123
6934	6935	12/07/22	11:30:00	AM	73.4	14.98	115.1	0.0585
6935	6936	12/07/22	11:45:00	AM	90.7	14.96	142.2	0.0708
6936	6937	12/07/22	12:00:00	PM	105.3	14.95	165.2	0.0813
6937	6938	12/07/22	12:15:00	PM	124.7	14.94	195.7	0.0955
6938	6939	12/07/22	12:30:00	PM	138.7	14.90	217.8	0.1059
6939	6940	12/07/22	12:45:00	PM	151.6	14.91	238.0	0.1154
6940	6941	12/07/22	01:00:00	PM	158.0	14.89	248.2	0.1202
6941	6942	12/07/22	01:15:00	PM	164.9	14.86	259.2	0.1254
6942	6943	12/07/22	01:30:00	PM	166.2	14.84	261.4	0.1264
6943	6944	12/07/22	01:45:00	PM	164.9	14.80	259.6	0.1256
6944	6945	12/07/22	02:00:00	PM	164.9	14.76	259.8	0.1257
6945	6946	12/07/22	02:15:00	PM	166.6	14.78	262.4	0.1269
6946	6947	12/07/22	02:30:00	PM	171.4	14.78	269.9	0.1305
6947	6948	12/07/22	02:45:00	PM	176.2	14.75	277.7	0.1342

6948	6949	12/07/22	03:00:00	PM	176.6	14.73	278.5	0.1345
6949	6950	12/07/22	03:15:00	PM	175.7	14.69	277.3	0.1340
6950	6951	12/07/22	03:30:00	PM	174.4	14.65	275.5	0.1331
6951	6952	12/07/22	03:45:00	PM	174.4	14.63	275.7	0.1332
6952	6953	12/07/22	04:00:00	PM	176.2	14.63	278.5	0.1345
6953	6954	12/07/22	04:15:00	PM	179.6	14.63	283.9	0.1371
6954	6955	12/07/22	04:30:00	PM	182.2	14.63	288.0	0.1391
6955	6956	12/07/22	04:45:00	PM	179.2	14.58	283.6	0.1370
6956	6957	12/07/22	05:00:00	PM	181.8	14.60	287.6	0.1389
6957	6958	12/07/22	05:15:00	PM	189.2	14.65	298.9	0.1443
6958	6959	12/07/22	05:30:00	PM	190.5	14.68	300.7	0.1452
6959	6960	12/07/22	05:45:00	PM	197.1	14.67	311.2	0.1502
6960	6961	12/07/22	06:00:00	PM	202.3	14.63	319.8	0.1543
6961	6962	12/07/22	06:15:00	PM	205.4	14.56	325.2	0.1569
6962	6963	12/07/22	06:30:00	PM	205.9	14.47	326.7	0.1576
6963	6964	12/07/22	06:45:00	PM	204.5	14.36	325.3	0.1569
6964	6965	12/07/22	07:00:00	PM	202.3	14.24	322.8	0.1557
6965	6966	12/07/22	07:15:00	PM	200.1	14.11	320.2	0.1545
6966	6967	12/07/22	07:30:00	PM	195.8	14.04	313.9	0.1515
6967	6968	12/07/22	07:45:00	PM	224.0	14.30	356.9	0.1721
6968	6969	12/07/22	08:00:00	PM	223.1	14.30	355.4	0.1714
6969	6970	12/07/22	08:15:00	PM	224.4	14.30	357.5	0.1724
6970	6971	12/07/22	08:30:00	PM	227.1	14.30	361.8	0.1745
6971	6972	12/07/22	08:45:00	PM	229.3	14.31	365.2	0.1762
6972	6973	12/07/22	09:00:00	PM	231.5	14.30	368.8	0.1779
6973	6974	12/07/22	09:15:00	PM	232.8	14.29	371.0	0.1789
6974	6975	12/07/22	09:30:00	PM	232.8	14.26	371.2	0.1791
6975	6976	12/07/22	09:45:00	PM	233.3	14.22	372.4	0.1796
6976	6977	12/07/22	10:00:00	PM	232.8	14.20	371.8	0.1793
6977	6978	12/07/22	10:15:00	PM	231.5	14.16	370.1	0.1785
6978	6979	12/07/22	10:30:00	PM	227.9	14.08	365.0	0.1761
6979	6980	12/07/22	10:45:00	PM	224.0	13.99	359.5	0.1734
6980	6981	12/07/22	11:00:00	PM	220.0	13.88	354.1	0.1708
6981	6982	12/07/22	11:15:00	PM	215.5	13.73	348.1	0.1679
6982	6983	12/07/22	11:30:00	PM	212.0	13.57	343.8	0.1658
6983	6984	12/07/22	11:45:00	PM	209.8	13.44	341.3	0.1646
6984	6985	12/08/22	12:00:00	AM	210.7	13.37	343.3	0.1656
6985	6986	12/08/22	12:15:00	AM	211.1	13.32	344.4	0.1661
6986	6987	12/08/22	12:30:00	AM	210.7	13.26	344.2	0.1660
6987	6988	12/08/22	12:45:00	AM	210.3	13.22	343.9	0.1659
6988	6989	12/08/22	01:00:00	AM	209.8	13.17	343.5	0.1657

6989	6990	12/08/22	01:15:00	AM	208.5	13.10	342.0	0.1649
6990	6991	12/08/22	01:30:00	AM	205.9	12.96	338.9	0.1634
6991	6992	12/08/22	01:45:00	AM	203.2	12.85	335.3	0.1617
6992	6993	12/08/22	02:00:00	AM	205.4	12.78	339.5	0.1638
6993	6994	12/08/22	02:15:00	AM	212.9	12.78	351.9	0.1697
6994	6995	12/08/22	02:30:00	AM	220.9	12.77	365.3	0.1762
6995	6996	12/08/22	02:45:00	AM	224.8	12.77	371.7	0.1793
6996	6997	12/08/22	03:00:00	AM	226.2	12.73	374.4	0.1806
6997	6998	12/08/22	03:15:00	AM	224.8	12.68	372.5	0.1797
6998	6999	12/08/22	03:30:00	AM	222.2	12.61	368.9	0.1779
6999	7000	12/08/22	03:45:00	AM	217.3	12.46	362.1	0.1746
7000	7001	12/08/22	04:00:00	AM	216.0	12.30	361.3	0.1743
7001	7002	12/08/22	04:15:00	AM	217.8	12.14	365.8	0.1764
7002	7003	12/08/22	04:30:00	AM	218.2	12.02	367.6	0.1773
7003	7004	12/08/22	04:45:00	AM	215.1	11.85	363.9	0.1755
7004	7005	12/08/22	05:00:00	AM	212.9	11.67	361.8	0.1745
7005	7006	12/08/22	05:15:00	AM	212.0	11.49	361.9	0.1745
7006	7007	12/08/22	05:30:00	AM	211.6	11.32	362.8	0.1750
7007	7008	12/08/22	05:45:00	AM	207.6	11.12	357.7	0.1725
7008	7009	12/08/22	06:00:00	AM	206.7	10.91	358.1	0.1727
7009	7010	12/08/22	06:15:00	AM	204.1	10.71	355.4	0.1714
7010	7011	12/08/22	06:30:00	AM	201.5	10.50	352.7	0.1701
7011	7012	12/08/22	06:45:00	AM	199.7	10.29	351.5	0.1695
7012	7013	12/08/22	07:00:00	AM	199.3	10.09	352.6	0.1700
7013	7014	12/08/22	07:15:00	AM	197.1	9.91	350.3	0.1690
7014	7015	12/08/22	07:30:00	AM	194.9	9.70	348.3	0.1680
7015	7016	12/08/22	07:45:00	AM	194.9	9.49	350.2	0.1689
7016	7017	12/08/22	08:00:00	AM	194.0	9.33	350.0	0.1688
7017	7018	12/08/22	08:15:00	AM	193.6	9.15	351.0	0.1693
7018	7019	12/08/22	08:30:00	AM	194.0	9.00	353.1	0.1703
7019	7020	12/08/22	08:45:00	AM	195.8	8.89	357.4	0.1724
7020	7021	12/08/22	09:00:00	AM	199.3	8.84	364.2	0.1757
7021	7022	12/08/22	09:15:00	AM	205.9	8.87	376.0	0.1814
7022	7023	12/08/22	09:30:00	AM	210.3	8.90	383.7	0.1851
7023	7024	12/08/22	09:45:00	AM	215.1	8.99	391.6	0.1889
7024	7025	12/08/22	10:00:00	AM	216.9	9.08	393.9	0.1901
7025	7026	12/08/22	10:15:00	AM	217.3	9.21	393.3	0.1898
7026	7027	12/08/22	10:30:00	AM	219.1	9.84	390.1	0.1882
7027	7028	12/08/22	10:45:00	AM	219.5	10.14	387.8	0.1871
7028	7029	12/08/22	11:00:00	AM	222.2	10.44	389.6	0.1879
7029	7030	12/08/22	11:15:00	AM	226.2	10.80	392.9	0.1896

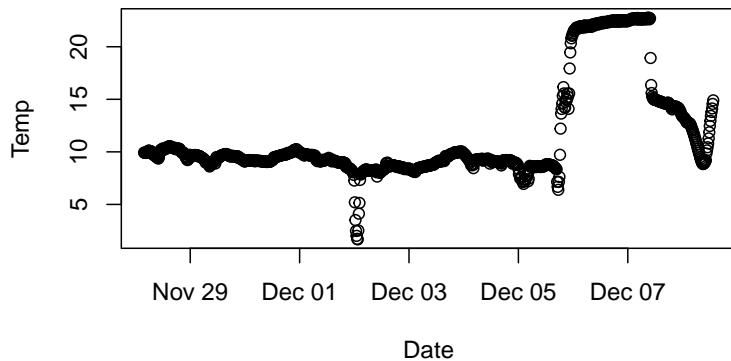
7030	7031	12/08/22	11:30:00 AM	231.9	11.28	398.0	0.1920
7031	7032	12/08/22	11:45:00 AM	238.6	11.86	403.5	0.1947
7032	7033	12/08/22	12:00:00 PM	246.7	12.46	411.1	0.1984
7033	7034	12/08/22	12:15:00 PM	252.9	12.95	416.3	0.2009
7034	7035	12/08/22	12:30:00 PM	258.8	13.42	421.2	0.2033
7035	7036	12/08/22	12:45:00 PM	262.8	13.80	423.7	0.2046
7036	7037	12/08/22	01:00:00 PM	234.2	14.13	374.6	0.1807
7037	7038	12/08/22	01:15:00 PM	250.2	14.56	396.1	0.1911
7038	7039	12/08/22	01:30:00 PM	261.0	14.90	409.9	0.1978

```
Eel_cond$Date <- as.POSIXct(strptime(Eel_cond$Date,
                                     format = "%m/%d/%y %I:%M:%S %p", tz = "EST"))
#
#
h <- head(Eel_cond, 1000)
plot(data = h, Temp~Date)
```



```
Eel_cond <- Eel_cond[Eel_cond$Date > "2022-09-29",]

t <- tail(Eel_cond, 1000)
plot(data = t, Temp~Date)
```



```
Eel_cond <- Eel_cond[Eel_cond$Date < "2022-12-05 12:00:00",]

gg3 <- gg2+
  geom_point(data = Eel_cond, aes(x=Date,y=Temp), color = "purple", cex = 1)
gg3
```

Warning: Removed 64 rows containing missing values or values outside the scale range  
(`geom\_point()`).

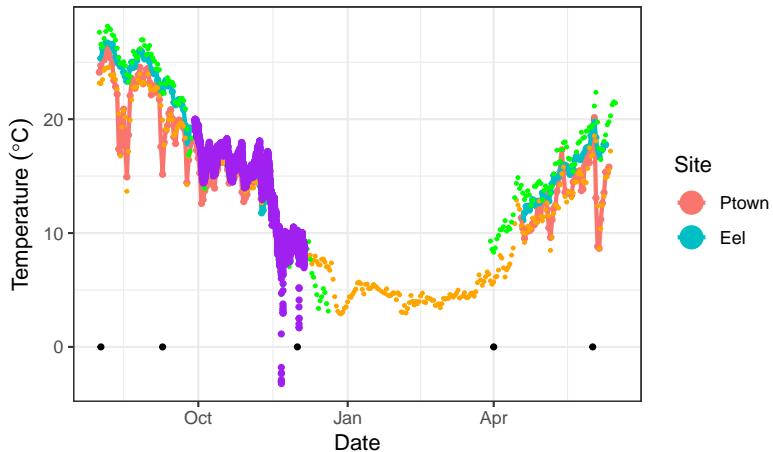
Warning: Removed 62 rows containing missing values or values outside the scale range  
(`geom\_line()`).

Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom\_point()`).

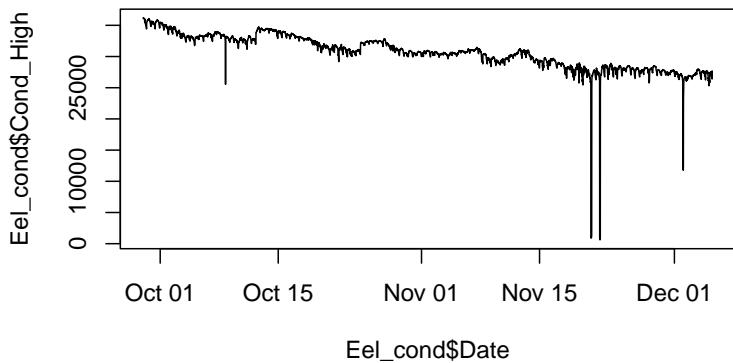
Warning: Removed 255 rows containing missing values or values outside the scale range  
(`geom\_point()`).

Warning: Removed 333 rows containing missing values or values outside the scale range  
(`geom\_point()`).

A. Temp



```
plot(Eel_cond$Date, Eel_cond$Cond_High, type = "l")
```

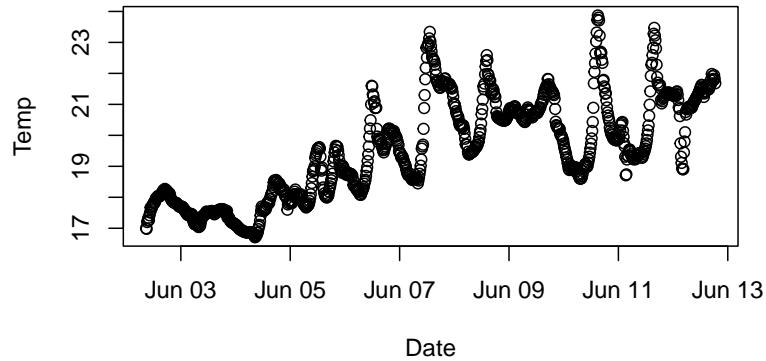


```
data_dir <- "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Conductivity/"
Ptown_cond <- read.csv(paste(data_dir,"20674247_Ptown.csv",sep=""), skip = 2, stringsAsFactors = TRUE)
names(Ptown_cond) <- c("n","Date","Cond_High","Temp","Other")
str(Ptown_cond)
```

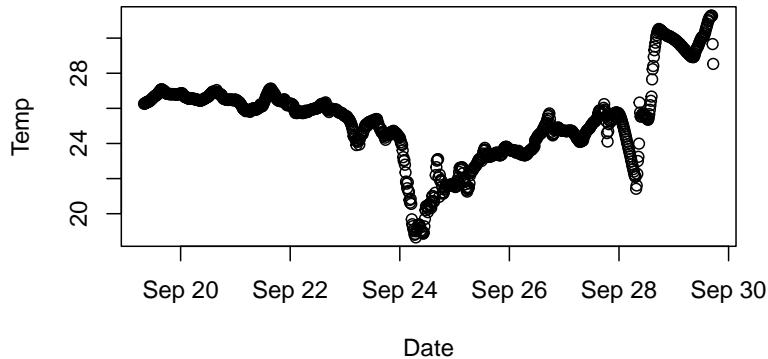
```
'data.frame': 11461 obs. of 9 variables:
 $ n       : int 4 5 6 7 8 9 10 11 12 13 ...
 $ Date    : chr "6/2/2022 8:45" "6/2/2022 9:00" "6/2/2022 9:15" "6/2/2022 9:30" ...
```

```
$ Cond_High: num  0 32496 32904 32947 32965 ...
$ Temp      : num  17 17 17.2 17.2 17.3 ...
$ Other     : logi  NA NA NA NA NA NA ...
$ NA        : chr  "" "" "" ...
```

```
Ptown_cond$Date <- as.POSIXct(Ptown_cond$Date, format = "%m/%d/%Y %H:%M")
#
#
h <- head(Ptown_cond,1000)
plot(data = h,Temp~Date)
```



```
#Ptown_cond <- Ptown_cond[Ptown_cond$Date > "2022-09-29",]
t <- tail(Ptown_cond,1000)
plot(data = t,Temp~Date)
```



```
Ptown_cond <- Ptown_cond[Ptown_cond$Date < "2022-09-27 17:00:00",]
#
str(Ptown_cond)
```

```
'data.frame': 11265 obs. of 9 variables:
 $ n      : int  4 5 6 7 8 9 10 11 12 13 ...
 $ Date    : POSIXct, format: "2022-06-02 08:45:00" "2022-06-02 09:00:00" ...
 $ Cond_High: num  0 32496 32904 32947 32965 ...
 $ Temp    : num  17 17 17.2 17.2 17.3 ...
 $ Other   : logi  NA NA NA NA NA NA ...
 $ NA      : chr  "" "" "" ...
```

```
Ptown.1 <- Ptown_cond[,c("Date","Cond_High","Temp")]
gg3 <- gg2+
  geom_point(data = Ptown_cond, aes(x=Date,y=Temp), color = "purple", cex = 1)
gg3
```

Warning: Removed 64 rows containing missing values or values outside the scale range (`geom\_point()`).

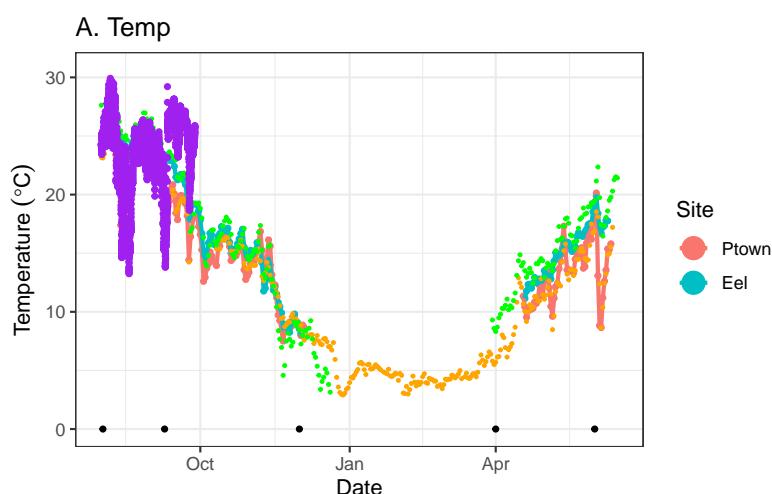
```
Warning: Removed 62 rows containing missing values or values outside the scale range  
(`geom_line()`).
```

```
Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom_point()`).
```

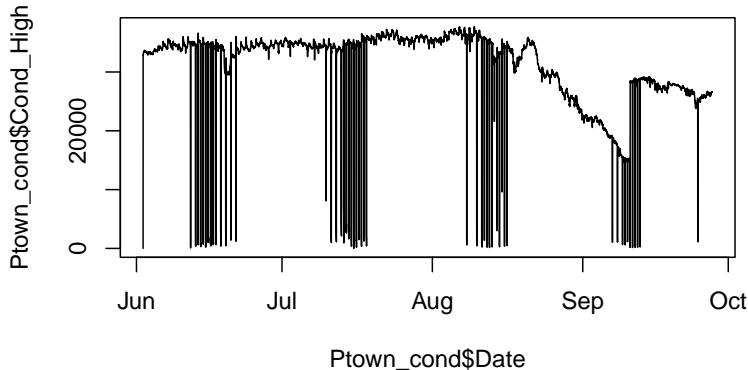
```
Warning: Removed 255 rows containing missing values or values outside the scale range  
(`geom_point()`).
```

```
Warning: Removed 333 rows containing missing values or values outside the scale range  
(`geom_point()`).
```

```
Warning: Removed 5725 rows containing missing values or values outside the scale range  
(`geom_point()`).
```



```
plot(Ptown_cond$Date, Ptown_cond$Cond_High, type = "l")
```



```

data_dir <- "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Conductivity/"
Ptown_cond <- read.csv(paste(data_dir,"21446049_Ptown_Dec22.csv",sep=""), skip = 2, stringsAsFactors=TRUE)
names(Ptown_cond) <- c("n","Date","Cond_Low","Cond_High","Temp","Other")
str(Ptown_cond)

```

```

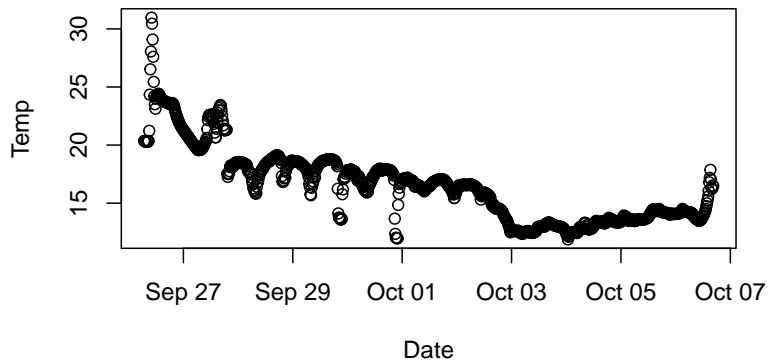
'data.frame': 7040 obs. of 10 variables:
 $ n      : int 4 5 6 7 8 9 10 11 12 13 ...
 $ Date   : chr "9/26/2022 6:45" "9/26/2022 7:00" "9/26/2022 7:15" "9/26/2022 7:30" ...
 $ Cond_Low: num 0 0 0 0 0 0 0 0 0 0 ...
 $ Cond_High: num 0 0 0 0 0 0 0 0 0 0 ...
 $ Temp   : num 20.4 20.3 20.3 20.3 20.3 ...
 $ Other   : chr "" "" "" ...
 $ NA     : chr ...

```

```

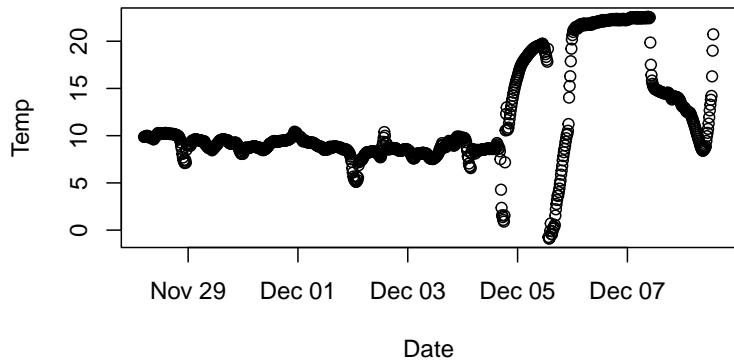
Ptown_cond$date <- as.POSIXct(Ptown_cond$date, format = "%m/%d/%Y %H:%M")
#
#
h <- head(Ptown_cond,1000)
plot(data = h,Temp~Date)

```



```
Ptown_cond <- Ptown_cond[Ptown_cond$Date > "2022-09-27 20:00:00",]

t <- tail(Ptown_cond, 1000)
plot(data = t, Temp~Date)
```



```
Ptown_cond <- Ptown_cond[Ptown_cond$Date < "2022-12-04 13:00:00",]

#
str(Ptown_cond)
```

```
'data.frame': 6499 obs. of 10 variables:  
 $ n : int 154 155 156 157 158 159 160 161 162 163 ...  
 $ Date : POSIXct, format: "2022-09-27 20:15:00" "2022-09-27 20:30:00" ...  
 $ Cond_Low : num 28182 28357 28409 28265 28159 ...  
 $ Cond_High: num 38034 38333 38336 38165 38040 ...  
 $ Temp : num 17.8 18.1 18.2 18.2 18.2 ...  
 $ Other : chr "" "" "" ...  
 $ NA : chr "" "" "" ...
```

```
Ptown.2 <- Ptown_cond[,c("Date","Cond_High","Temp")]  
  
gg3 <- gg2+  
  geom_point(data = Ptown_cond, aes(x=Date,y=Temp), color = "purple", cex = 1)  
gg3
```

Warning: Removed 64 rows containing missing values or values outside the scale range  
(`geom\_point()`).

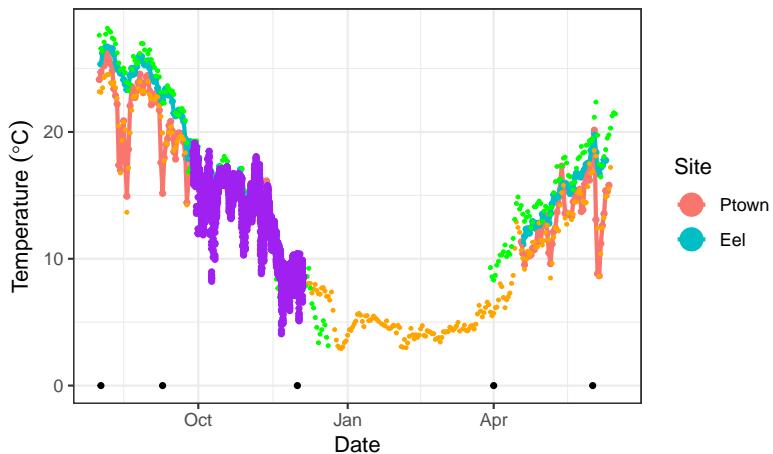
Warning: Removed 62 rows containing missing values or values outside the scale range  
(`geom\_line()`).

Warning: Removed 1 row containing missing values or values outside the scale range  
(`geom\_point()`).

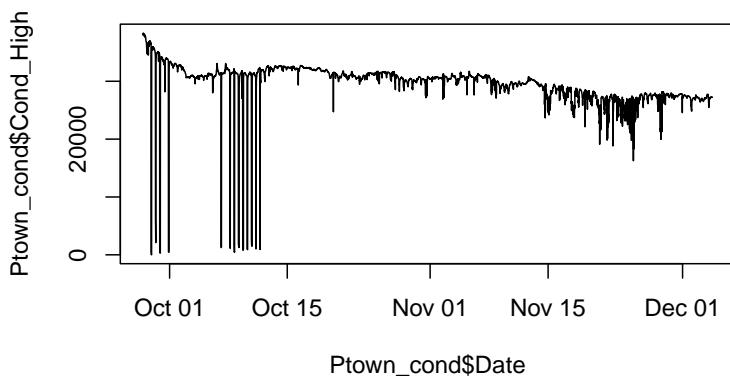
Warning: Removed 255 rows containing missing values or values outside the scale range  
(`geom\_point()`).

Warning: Removed 333 rows containing missing values or values outside the scale range  
(`geom\_point()`).

A. Temp



```
plot(Ptown_cond$Date, Ptown_cond$Cond_High, type = "l")
```

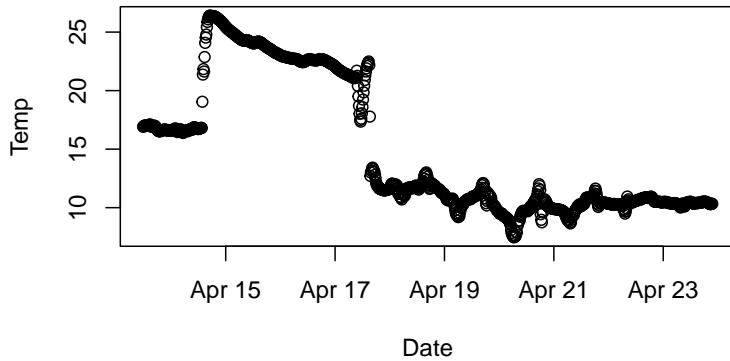


```
data_dir <- "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Conductivity/"
Ptown_cond <- read.csv(paste(data_dir,"21446049_Ptown_Jul23.csv",sep=""), skip = 2, stringsAsFactors=TRUE)
names(Ptown_cond) <- c("n","Date","Cond_Low","Cond_High","Temp","Other")
str(Ptown_cond)
```

```
'data.frame': 10480 obs. of 10 variables:
 $ n      : int 4 5 6 7 8 9 10 11 12 13 ...
 $ Date   : chr "4/13/2023 11:45" "4/13/2023 12:00" "4/13/2023 12:15" "4/13/2023 12:30" ...
```

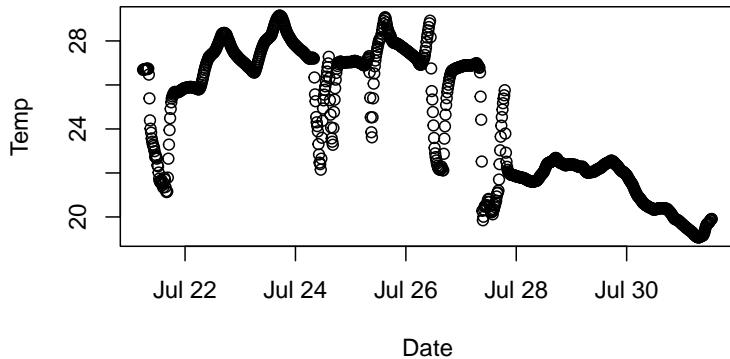
```
$ Cond_Low : num 18392 18491 18481 18548 18540 ...
$ Cond_High: num 26717 26735 26754 26776 26776 ...
$ Temp      : num 16.9 16.9 17 17 17 ...
$ Other     : chr  " " " " ...
$ NA        : chr  " " " " ...
$ NA        : chr  " " " " ...
$ NA        : chr  " " " " ...
$ NA        : chr  " " " " ...
```

```
Ptown_cond$Date <- as.POSIXct(Ptown_cond$Date, format = "%m/%d/%Y %H:%M")
#
#
h <- head(Ptown_cond,1000)
plot(data = h,Temp~Date)
```



```
Ptown_cond <- Ptown_cond[Ptown_cond$Date > "2023-04-17 15:00:00",]

t <- tail(Ptown_cond,1000)
plot(data = t,Temp~Date)
```



```
Ptown_cond <- Ptown_cond[Ptown_cond$Date < "2023-07-19 12:00:00",]

#  
str(Ptown_cond)
```

```
'data.frame': 8915 obs. of 10 variables:  
 $ n : int 402 403 404 405 406 407 408 409 410 411 ...  
 $ Date : POSIXct, format: "2023-04-17 15:15:00" "2023-04-17 15:30:00" ...  
 $ Cond_Low : num 96.5 13103.5 12916.4 12072.3 12203.6 ...  
 $ Cond_High: num 145 15426 15276 14200 14352 ...  
 $ Temp : num 17.8 12.7 13 13.2 13.4 ...  
 $ Other : chr "" "" "" ...  
 $ NA : chr "" "" "" ...
```

```
Ptown.3 <- Ptown_cond[,c("Date","Cond_High","Temp")]

Ptown_cond <- rbind(Ptown.1, Ptown.2, Ptown.3)

gg3 <- gg2+  
  geom_point(data = Ptown_cond, aes(x=Date,y=Temp), color = "purple", cex = 1)  
gg3
```

Warning: Removed 64 rows containing missing values or values outside the scale range (`geom\_point()`).

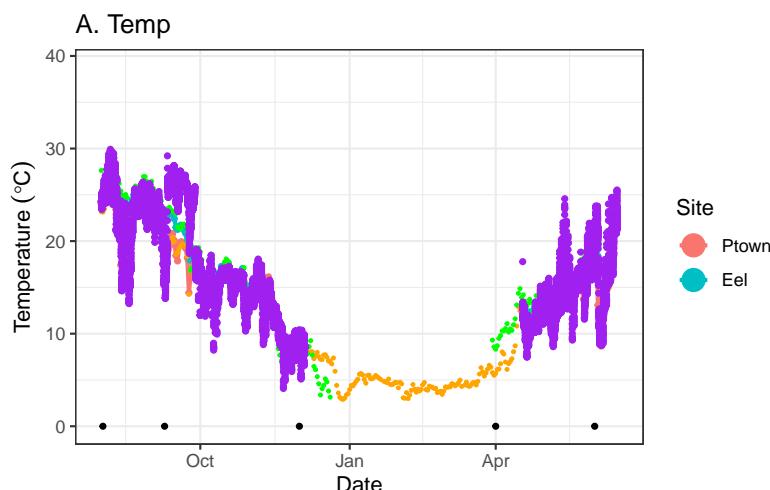
Warning: Removed 62 rows containing missing values or values outside the scale range (`geom\_line()`).

Warning: Removed 1 row containing missing values or values outside the scale range (`geom\_point()`).

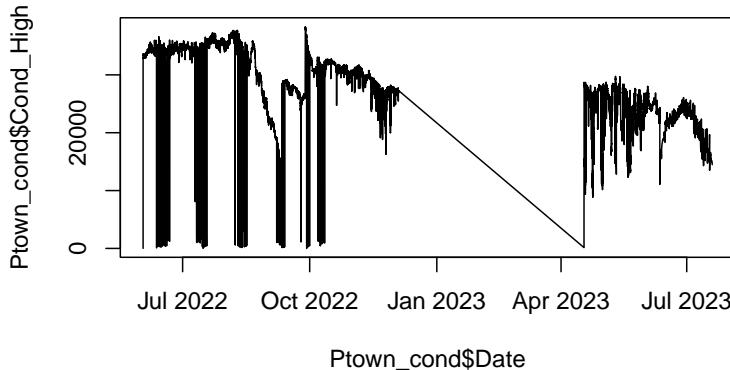
Warning: Removed 255 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 333 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 9036 rows containing missing values or values outside the scale range (`geom\_point()`).



```
plot(Ptown_cond$Date, Ptown_cond$Cond_High, type = "l")
```



SW temperature

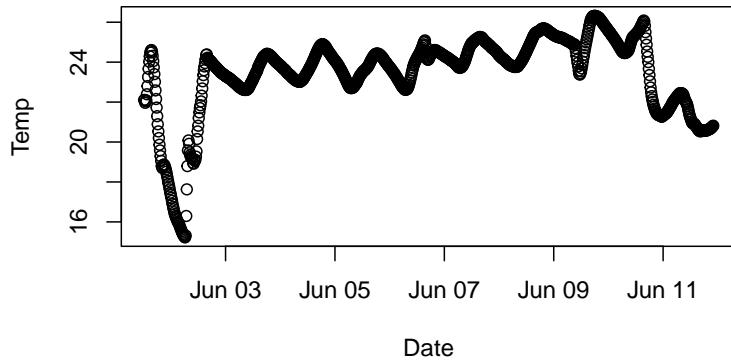
```

data_dir <- "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/SW temp HOBO/"
Den_cond <- read.csv(paste(data_dir,"10709184_East_Dennis.csv",sep=""), skip = 2, stringsAsFactors=TRUE)
names(Den_cond) <- c("n","Date","Temp","Other")
str(Den_cond)

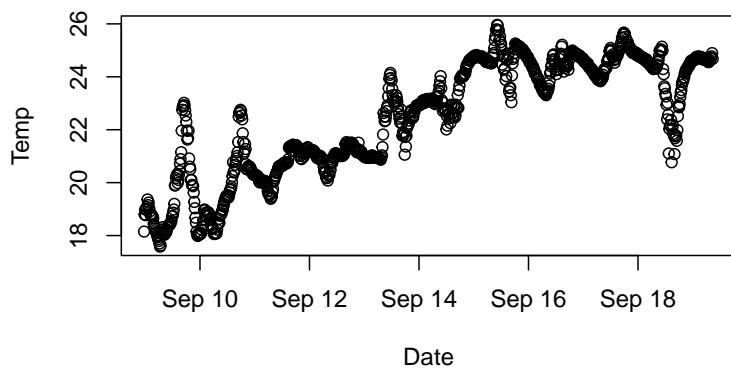
'data.frame': 10549 obs. of  8 variables:
 $ n      : int  2 3 4 5 6 7 8 9 10 11 ...
 $ Date   : chr  "6/1/2022 12:15" "6/1/2022 12:30" "6/1/2022 12:45" "6/1/2022 13:00" ...
 $ Temp   : num  22.1 22.1 22 22 22.1 ...
 $ Other  : logi  NA NA NA NA NA NA ...
 $ NA     : chr  "" "" "" "" ...
 $ NA     : chr  "" "" "" "" ...
 $ NA     : chr  "" "" "" "" ...
 $ NA     : chr  "" "" "" "" ...

Den_cond$Date <- as.POSIXct(Den_cond$Date, format = "%m/%d/%Y %H:%M")
#
#
h <- head(Den_cond,1000)
plot(data = h,Temp~Date)

```



```
Den_cond <- Den_cond[Den_cond$Date > "2022-06-17 12:00:00",]  
  
t <- tail(Den_cond, 1000)  
plot(data = t, Temp~Date)
```



```
Den_cond <- Den_cond[Den_cond$Date < "2023-09-12",]  
  
#  
str(Den_cond)
```

```

'data.frame': 9013 obs. of 8 variables:
 $ n      : int 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 ...
 $ Date   : POSIXct, format: "2022-06-17 12:15:00" "2022-06-17 12:30:00" ...
 $ Temp   : num 25.4 25.6 25.6 25.7 25.9 ...
 $ Other  : logi NA NA NA NA NA NA ...
 $ NA     : chr "" "" "" ...

```

```

gg3 <- gg2+
  geom_point(data = Den_cond, aes(x=Date,y=Temp), color = "purple", cex = 1)
gg3

```

Warning: Removed 64 rows containing missing values or values outside the scale range (`geom\_point()`).

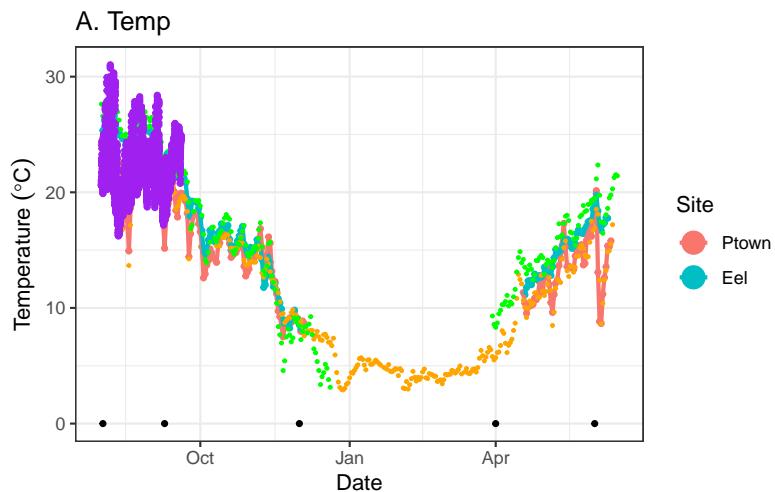
Warning: Removed 62 rows containing missing values or values outside the scale range (`geom\_line()`).

Warning: Removed 1 row containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 255 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 333 rows containing missing values or values outside the scale range (`geom\_point()`).

Warning: Removed 4273 rows containing missing values or values outside the scale range (`geom\_point()`).



## 0.8 Flood and ebb tide analysis

Issues: The tide groups aren't right. They jump around. Also not all the sediment temps get assigned a tide group because I need to assign everything to the same timeseries (0,15,30,45) etc.

```
library(lemon)

lim.P <- as.POSIXct(c(min(Eel.sed$date),max(Ptown.sed$date)))
lim.E <- as.POSIXct(c(min(Eel.sed$date),max(Ptown.sed$date)))
carb_dat <- carb_dat[carb_dat$date>min(Eel.sed$date) & carb_dat$date<max(Ptown.sed$date),]

carb_dat$season <- cut(lubridate::yday(carb_dat$date - lubridate::days(79)),
  breaks = c(0, 93, 187, 276, Inf),
  labels = c("Spring", "Summer", "Autumn", "Winter"))
carb_dat$season <- factor(carb_dat$season, levels=c("Autumn", "Winter","Spring", "Summer"))
Ptown.sed$season <- factor(Ptown.sed$season, levels=c("Autumn", "Winter","Spring", "Summer"))
Eel.sed$season <- factor(Eel.sed$season, levels=c("Autumn", "Winter","Spring", "Summer"))
```

```
library(zoo)
```

Attaching package: 'zoo'

The following objects are masked from 'package:base':

as.Date, as.Date.numeric

```
library(lubridate)
```

```
Ptown_sediment <- Ptown_sediment[,c("Date","Temp")]
```

```
# to.minutes15(Ptown)[,4] # interpolate for each 15 min interval
```

```
# format(round_date(as.POSIXct(paste("1900-01-01 ", x)), unit="15 mins"), "%M")  
str(Ptown)
```

'data.frame': 16427 obs. of 17 variables:

```
$ Site          : Factor w/ 3 levels "Den","Eel","Ptown": NA  
$ Date          : POSIXct, format: NA NA ...  
$ Temp          : num  NA NA NA NA NA NA NA NA NA ...  
$ pH            : num  NA NA NA NA NA NA NA NA NA ...  
$ Tris          : num  NA NA NA NA NA NA NA NA NA ...  
$ Tris_temp     : num  NA NA NA NA NA NA NA NA NA ...  
$ Serial_number : num  NA NA NA NA NA NA NA NA NA ...  
$ offset         : num  NA NA NA NA NA NA NA NA NA ...  
$ pH_corr       : num  NA NA NA NA NA NA NA NA NA ...  
$ H_plus_conc   : num  NA NA NA NA NA NA NA NA NA ...  
$ date           : chr  NA NA NA NA ...  
$ day            : chr  NA NA NA NA ...  
$ Time           : chr  NA NA NA NA ...  
$ Tideheight     : num  NA ...  
$ state          : chr  NA NA NA NA ...  
$ previous_Tideheight: num  NA NA NA NA NA NA NA NA NA ...  
$ tide_group     : int  NA NA NA NA NA NA NA NA NA ...
```

```
Ptown$Date <- round_date(Ptown$Date, unit="15 mins")  
tail(Eel$Date)
```

[1] "2023-06-09 07:45:00 -05" "2023-06-09 08:00:00 -05"

[3] "2023-06-09 08:15:00 -05" "2023-06-09 08:30:00 -05"

[5] "2023-06-09 08:45:00 -05" "2023-06-09 09:00:00 -05"

```
Ptown.sed <- merge(Ptown, Ptown_sediment, by = "Date",  
                     all = TRUE ,  
                     suffixes = c("", ".sediment"))
```

```
Ptown.sed$season <- cut(lubridate::yday(Ptown.sed$Date - lubridate::days(79)),  
                        break303 c(0, 93, 187, 276, Inf),  
                        labels = c("Spring", "Summer", "Autumn", "Winter"))
```

```
Ptown.sed <- Ptown.sed[!is.na(Ptown.sed$season),]
```

```
Ptown.sed <- Ptown.sed[Ptown.sed$season!="Winter",]
```

```
head(Ptown_sediment$Date) #The sediment logger is on the 15 minute interval.
```

[1] "2022-08-05 00:15:00 EDT" "2022-08-05 00:30:00 EDT"

[3]

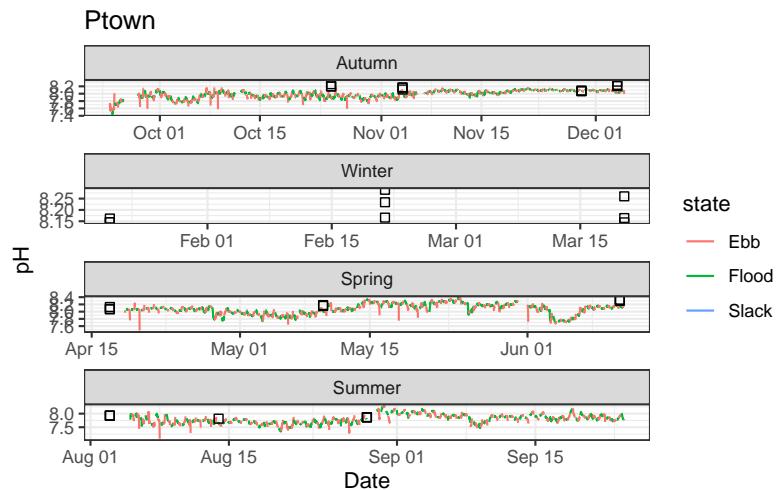
### 0.8.1 Break carb dat dataset into two groups

### 0.8.2 & save workspace

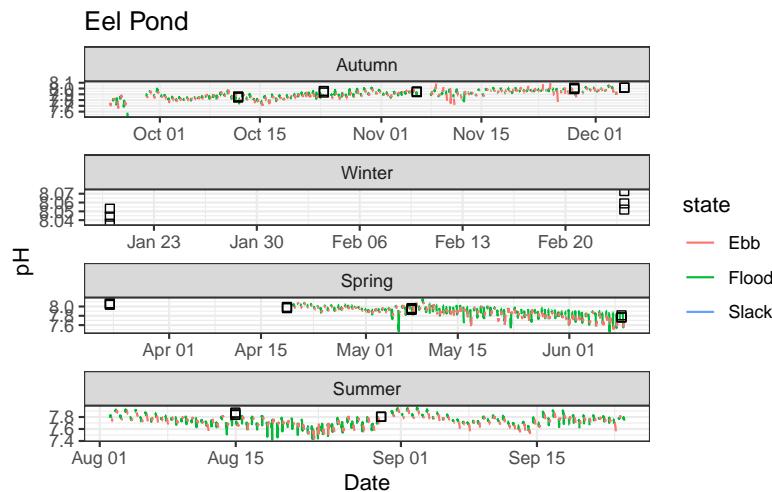
```
carb_dat.P <- carb_dat[carb_dat$Stratum=="Bottom water"&carb_dat$Site=="Ptown",]  
carb_dat.E <- carb_dat[carb_dat$Stratum=="Bottom water"&carb_dat$Site=="Eel",]
```

```
save.image(file=paste(Sys.Date(), 'pH.output.RData', sep = ""))
```

```
ggplot(Ptown.sed, aes(y = pH, x = Date))+  
  geom_line(aes(group = tide_group,  
                 color = state))+  
  ggtitle("Ptown") +  
  #facet_wrap(vars(season), scales = "free", nrow = 4) +  
  facet_rep_wrap(~season, scales="free", nrow = 4) +  
  geom_point(data = carb_dat.P, aes(x=Date, y = InSitu.pH), cex = 2, pch=22)
```



```
ggplot(Eel.sed, aes(y = pH, x = Date))+  
  geom_line(aes(group = tide_group, color = state))+  
  ggtitle("Eel Pond") +  
  facet_wrap(vars(season), scales = "free", nrow = 4) +  
  geom_point(data = carb_dat.E, aes(x=Date, y = InSitu.pH), cex = 2, pch=22)
```

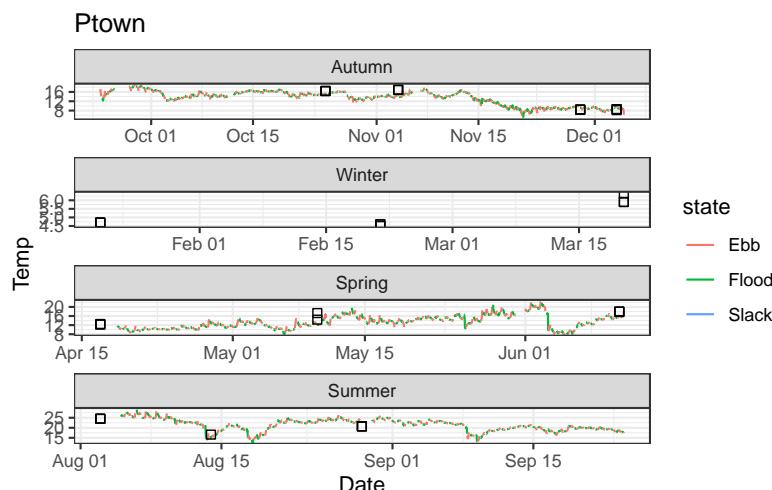


```
ggplot(Ptown.sed, aes(y = Temp, x = Date))+
  geom_line(aes(group = tide_group,
                 color = state))+

  ggttitle("Ptown")+
  #facet_wrap(vars(season), scales = "free", nrow = 4)+

  facet_rep_wrap(~season, scales="free", nrow = 4)+

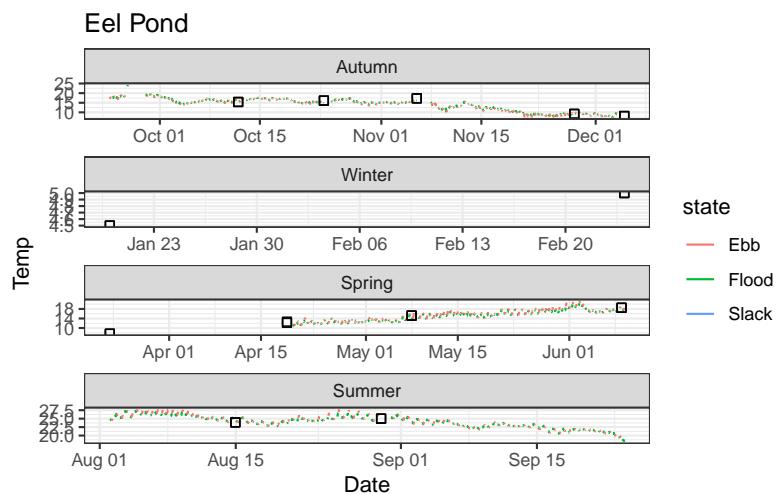
  geom_point(data = carb_dat.P, aes(x=Date, y = Water.Sediment..Temp),cex = 2, pch=22)
```



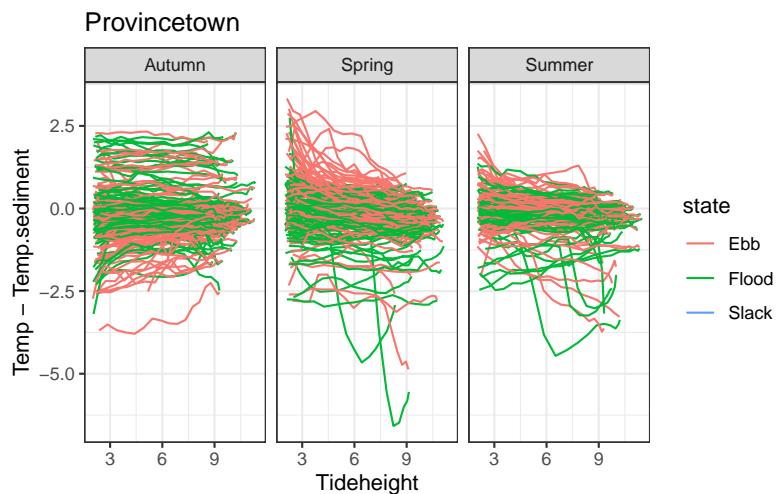
```
ggplot(Eel.sed, aes(y = Temp, x = Date))+

  geom_line(aes(group = tide_group, color = state))+
```

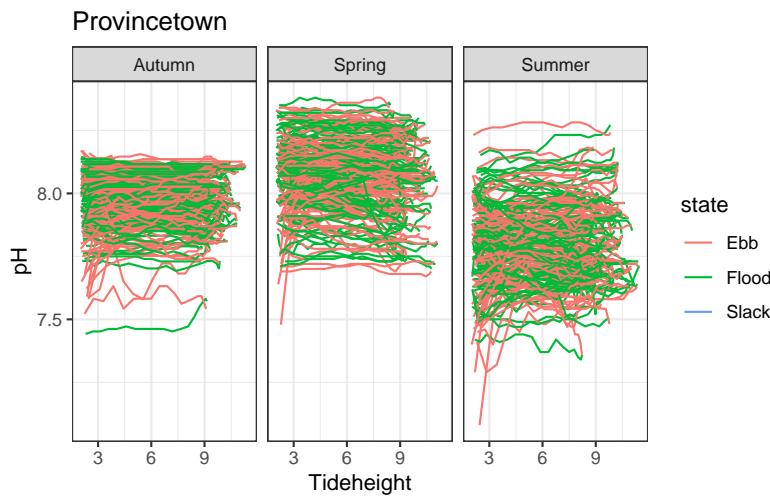
```
ggtitle("Eel Pond")+
  facet_wrap(vars(season), scales = "free", nrow = 4)+
  geom_point(data = carb_dat.E, aes(x=Date, y = Water.Sediment..Temp),cex = 2, pch=22)
```



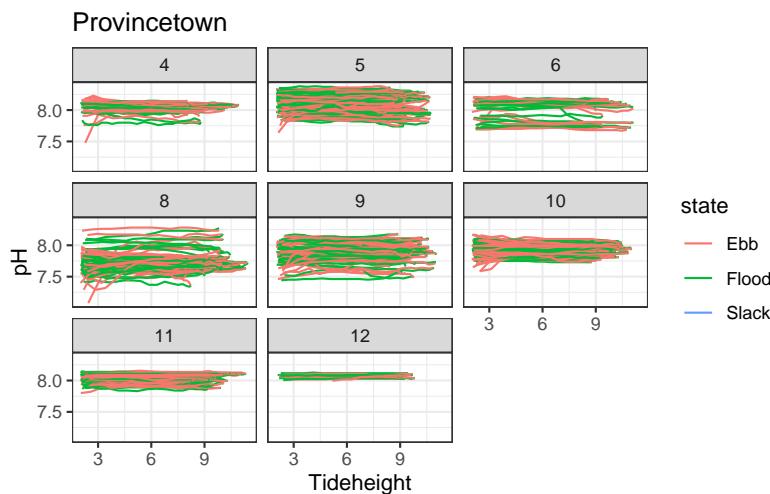
```
ggplot(Ptown.sed, aes(y = Temp-Temp.sediment, x = Tideheight, group = tide_group, color = state)
  geom_line()+
  facet_wrap(~season)+ ggtitle("Provincetown")
```



```
ggplot(Ptown.sed, aes(y = pH, x = Tideheight, group = tide_group, color = state))+  
  geom_line() +  
  facet_wrap(~season) +  ggttitle("Provincetown")
```

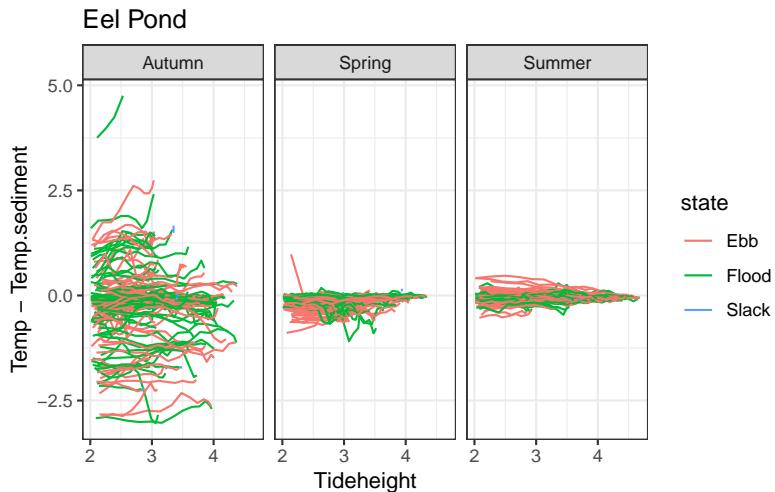


```
ggplot(Ptown.sed, aes(y = pH, x = Tideheight, group = tide_group, color = state))+  
  geom_line() +  
  facet_wrap(~month(Date)) +  ggttitle("Provincetown")
```

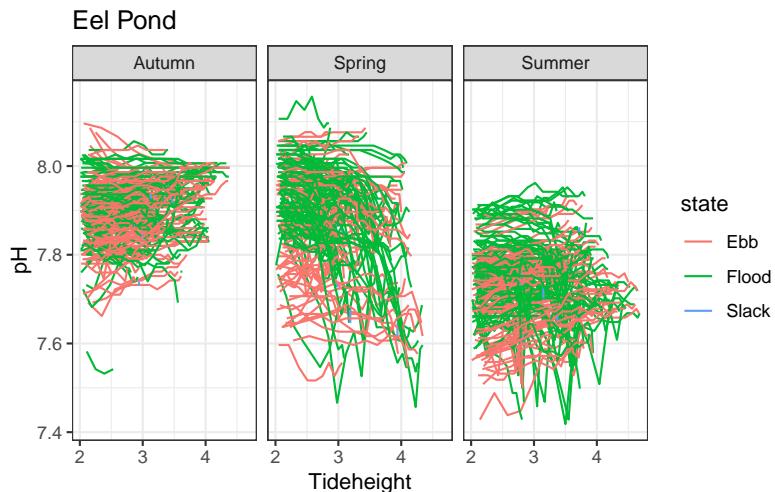


```
Eel.sed$temp.diff <- Eel.sed$Temp-Eel.sed$Temp.sediment
```

```
ggplot(Eel.sed, aes(y = Temp-Temp.sediment, x = Tideheight, group = tide_group, color = state)) +  
  geom_line() +  
  facet_wrap(~season) +  ggttitle("Eel Pond")
```



```
ggplot(Eel.sed, aes(y = pH, x = Tideheight, group = tide_group, color = state)) +  
  geom_line() +  
  facet_wrap(~season) +  ggttitle("Eel Pond")
```



```

# result.P <- Ptown.sed %>%
#   group_by(tide_group) %>%
#   reframe(#initial_flood = first(Tideheight[state == "Flood"]),
#          #final_ebb = last(Tideheight[state == "Ebb"]),
#          final_ebb_pH = pH[which(Tideheight ==
#                               last(Tideheight[state == "Ebb"]))],
#          initial_flood_pH = pH[which(Tideheight ==
#                               first(Tideheight[state == "Flood"]))],
#          sediment_temp = mean(Temp.sediment, na.rm = TRUE),
#          difference = last(Tideheight[state == "Ebb"]) - first(Tideheight[state == "Flood"])
#          )
#
# result.E <- Eel.sed %>%
#   group_by(tide_group) %>%
#   reframe(#initial_flood = first(Tideheight[state == "Flood"]),
#          #final_ebb = last(Tideheight[state == "Ebb"]),
#          final_ebb_pH = pH[which(Tideheight ==
#                               last(Tideheight[state == "Ebb"]))],
#          initial_flood_pH = pH[which(Tideheight ==
#                               first(Tideheight[state == "Flood"]))],
#          sediment_temp = mean(Temp.sediment, na.rm = TRUE),
#          difference = last(Tideheight[state == "Ebb"]) - first(Tideheight[state == "Flood"])
#          )
#
# #
#
# ggplot(result, aes(y = final_ebb_pH, x = initial_flood_pH))+
#   geom_point()+
#   ylim(7.5,8.5)+
#   xlim(7.5,8.5)
#
#
# result$change <- result$initial_flood_pH-result$final_ubb_pH
# ggplot(result, aes(y = change, x = sediment_temp))+
#   geom_point()
# #+
#   # ylim(7.5,8.5) +
#   # xlim(7.5,8.5)

```

## 0.9 Output daily environmental data for DEB model

I just want a general sense of pCO<sub>2</sub> at the two sites to use in the model.

```
unique(carb_dat.P$Shell.treatment)

[1] "outside cage" "monitoring"    "No Shell"      "Shell"

subset <- carb_dat.E[carb_dat.E$Shell.treatment=="outside cage" | carb_dat.E$Shell.treatment=="monitoring"]
subset <- subset[subset$Stratum=="Bottom water",]

pCO2.approx.E <- approx(as.Date(subset>Date), subset$pCO2..pH.Alk., xout=seq(min(as.Date(subset>Date), subset$pCO2..pH.Alk.), max(as.Date(subset>Date), subset$pCO2..pH.Alk()), by=1))

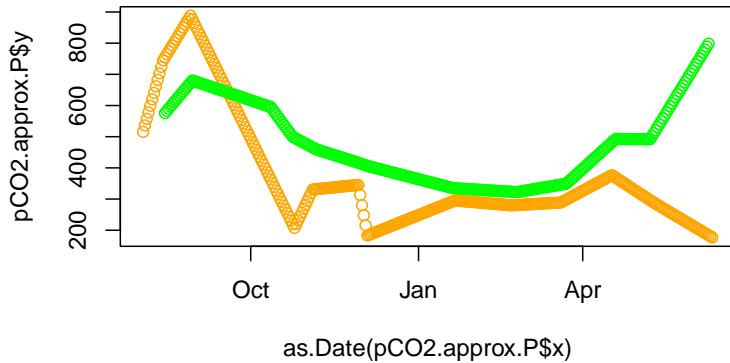
subset <- carb_dat.P[carb_dat.P$Shell.treatment=="outside cage" | carb_dat.P$Shell.treatment=="monitoring"]
subset <- subset[subset$Stratum=="Bottom water",]

pCO2.approx.P <- approx(as.Date(subset>Date), subset$pCO2..pH.Alk., xout=seq(min(as.Date(subset>Date), subset$pCO2..pH.Alk.), max(as.Date(subset>Date), subset$pCO2..pH.Alk()), by=1))

tail(pCO2.approx.P$x)

[1] "2023-06-06" "2023-06-07" "2023-06-08" "2023-06-09" "2023-06-10"
[6] "2023-06-11"

plot(as.Date(pCO2.approx.P$x), pCO2.approx.P$y, col = "orange")
points(as.Date(pCO2.approx.E$x), pCO2.approx.E$y, col = "green")
```



```
write.csv(pCO2.approx.P, file = "~/GitHub/EAD-ASEB-Ssolidissima-OA/projects/Seawater data/data",
write.csv(pCO2.approx.E, file = "~/GitHub/EAD-ASEB-Ssolidissima-OA/projects/Seawater data/data")
```

Temp output - use sediment temp

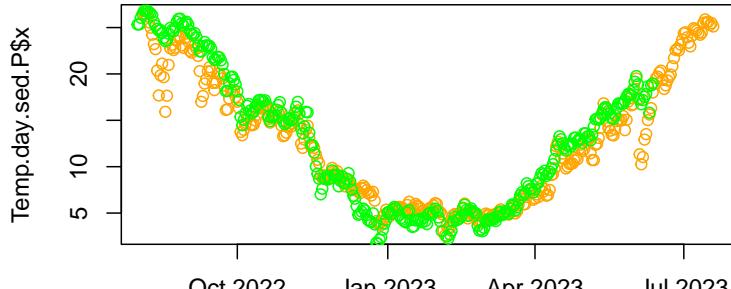
This can be used for the second experiment. The first summer experiment doesn't have temp loggers in the sediment

```
Eel_sediment$date <- as.Date(Eel_sediment$date)
Ptown_sediment$date <- as.Date(Ptown_sediment$date)

Temp.day.sed.E <- aggregate(Eel_sediment[,c("Temp")],
                           list(Date = cut(Eel_sediment[,c("Date")],
                                           breaks="day")),
                           mean, na.rm = TRUE)

Temp.day.sed.P <- aggregate(Ptown_sediment[,c("Temp")],
                           list(Date = cut(Ptown_sediment[,c("Date")],
                                           breaks="day")),
                           mean, na.rm = TRUE)

plot(as.Date(Temp.day.sed.P$date),Temp.day.sed.P$x, col = "orange")
points(as.Date(Temp.day.sed.E$date),Temp.day.sed.E$x, col = "green")
```



```
as.Date(Temp.day.sed.P$Date)
```

```
write.csv(Temp.day.sed.P, file = "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Temp.day.sed.P.csv")
write.csv(Temp.day.sed.E, file = "~/GitHub/EAD-ASEB-Ssolidissima-0A/projects/Seawater data/data/Temp.day.sed.E.csv")
```

Now recalculate from pH measurements from within the cages.

```
library(dplyr)

#unique(carb_dat.P$)

subset <- carb_dat.E[carb_dat.E$Shell.treatment=="No Shell" | carb_dat.E$Shell.treatment=="Shell"]
subset <- subset[subset$Stratum=="Bottom water",]
subset <- subset %>%
  group_by(Date) %>%
  summarize(pCO2..pH.Alk. = mean(pCO2..pH.Alk., na.rm = TRUE))

pCO2.approx.E <- approx(as.Date(subset>Date), subset$pCO2..pH.Alk., xout=seq(min(as.Date(subset
```

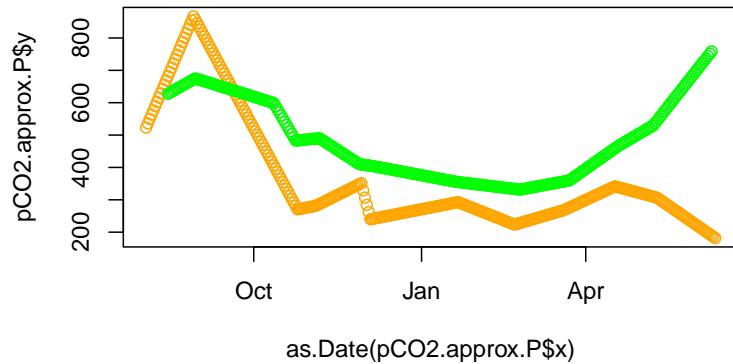
```
subset <- carb_dat.P[carb_dat.P$Shell.treatment=="No Shell" | carb_dat.P$Shell.treatment=="Shell"]
subset <- subset[subset$Stratum=="Bottom water",]
subset <- subset %>%
  group_by(Date) %>%
  summarize(pCO2..pH.Alk. = mean(pCO2..pH.Alk., na.rm = TRUE))

pCO2.approx.P <- approx(as.Date(subset>Date), subset$pCO2..pH.Alk., xout=seq(min(as.Date(subset
```

```
tail(pCO2.approx.P$x)
```

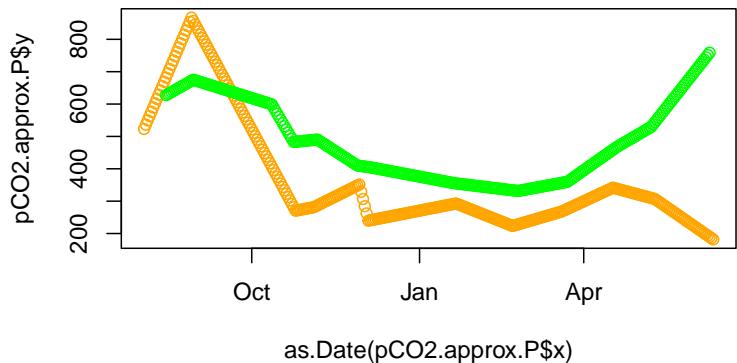
```
[1] "2023-06-06" "2023-06-07" "2023-06-08" "2023-06-09" "2023-06-10"  
[6] "2023-06-11"
```

```
plot(as.Date(pCO2.approx.P$x), pCO2.approx.P$y, col = "orange")  
points(as.Date(pCO2.approx.E$x), pCO2.approx.E$y, col = "green")
```



```
write.csv(pCO2.approx.P, file = "~/GitHub/EAD-ASEB-Ssolidissima-OA/projects/Seawater data/data_P.csv")  
write.csv(pCO2.approx.E, file = "~/GitHub/EAD-ASEB-Ssolidissima-OA/projects/Seawater data/data_E.csv")
```

```
plot(as.Date(pCO2.approx.P$x), pCO2.approx.P$y, col = "orange")  
points(as.Date(pCO2.approx.E$x), pCO2.approx.E$y, col = "green")
```



```

pCO2.approx.E <- as.data.frame(pCO2.approx.E)
pCO2.approx.P <- as.data.frame(pCO2.approx.P)
pCO2.approx.E$Site <- rep("Eel", times = nrow(pCO2.approx.E))
pCO2.approx.P$Site <- rep("Prov", times = nrow(pCO2.approx.P))

pCO2.all <- rbind(pCO2.approx.E, pCO2.approx.P)
pCO2.all$Site <- as.factor(pCO2.all$Site)

p <- ggplot(pCO2.all, aes(x=as.Date(x), y=y, group = Site, colour = Site)) +
  geom_line() +
  xlab("") #+
  #xlim(as.Date(c("2022-08-01","2023-06-15")))
p

```

