

AQM388

2024-07-10

AQMesh

NO2

```
##  
## Attaching package: 'shinyjs'  
  
## The following object is masked from 'package:shiny':  
##  
##     runExample  
  
## The following object is masked from 'package:RPostgres':  
##  
##     show  
  
## The following object is masked from 'package:DBI':  
##  
##     show  
  
## The following objects are masked from 'package:methods':  
##  
##     removeClass, show  
  
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --  
## v dplyr     1.1.4    v readr     2.1.5  
## vforcats   1.0.0    v stringr   1.5.1  
## v ggplot2   3.5.1    v tibble    3.2.1  
## v lubridate 1.9.3    v tidyr    1.3.1  
## v purrr     1.0.2  
## -- Conflicts ----- tidyverse_conflicts() --  
## x dplyr::filter()    masks stats::filter()  
## x dplyr::group_rows() masks kableExtra::group_rows()  
## x dplyr::lag()       masks stats::lag()  
## x lubridate::show()   masks shinyjs::show(), RPostgres::show(), DBI::show(), methods::show()  
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors  
##  
## Attaching package: 'jsonlite'  
##  
##  
## The following object is masked from 'package:purrr':  
##  
##     flatten
```

```

##  

##  

## The following object is masked from 'package:shiny':  

##  

##     validate  

##  

## # A tibble: 4 x 1  

##   dateapplied  

##   <dttm>  

## 1 2020-06-03 00:00:00  

## 2 2020-06-03 00:00:00  

## 3 2020-06-03 00:00:00  

## 4 2020-06-03 00:00:00  

## # A tibble: 4 x 1  

##   dateapplied  

##   <dttm>  

## 1 2021-03-30 00:00:00  

## 2 2021-03-30 00:00:00  

## 3 2021-03-30 00:00:00  

## 4 2021-03-30 00:00:00  

##  

rmse  

## # Source:   SQL [1 x 1]  

## # Database: postgres  [waclquant_read@pgwaclquant:5432/waclquant]  

##     rmse  

##     <dbl>  

## 1 14.1  

## # Source:   SQL [1 x 1]  

## # Database: postgres  [waclquant_read@pgwaclquant:5432/waclquant]  

##     rmse  

##     <dbl>  

## 1 15.8  

## # Source:   SQL [1 x 1]  

## # Database: postgres  [waclquant_read@pgwaclquant:5432/waclquant]  

##     rmse  

##     <dbl>  

## 1 11.5  

## # Source:   SQL [1 x 1]  

## # Database: postgres  [waclquant_read@pgwaclquant:5432/waclquant]  

##     rmse  

##     <dbl>  

## 1 8.72  

## # Source:   SQL [1 x 1]  

## # Database: postgres  [waclquant_read@pgwaclquant:5432/waclquant]  

##     rmse  

##     <dbl>  

## 1 14.1  

## # Source:   SQL [1 x 1]  

## # Database: postgres  [waclquant_read@pgwaclquant:5432/waclquant]  

##     rmse  

##     <dbl>

```

```

## 1 14.0
## # Source: SQL [1 x 1]
## # Database: postgres [waclquant_read@pgwaclquant:5432/waclquant]
##   rmse
##   <dbl>
## 1 16.1
## # Source: SQL [1 x 1]
## # Database: postgres [waclquant_read@pgwaclquant:5432/waclquant]
##   rmse
##   <dbl>
## 1 11.5
## # Source: SQL [1 x 1]
## # Database: postgres [waclquant_read@pgwaclquant:5432/waclquant]
##   rmse
##   <dbl>
## 1 10.9
## # Source: SQL [1 x 1]
## # Database: postgres [waclquant_read@pgwaclquant:5432/waclquant]
##   rmse
##   <dbl>
## 1 8.21

```

r squared

```

## [1] "AQM388 0.516354357716167"
## [1] "AQM389 0.397687016738907"
## [1] "AQM390 0.652822382564972"
## [1] "AQM391 0.631913188596976"

## [1] "AQM388 Manchester 0.516354357716167"
## [1] "AQM389 Manchester 0.0481459726830763"
## [1] "AQM389 London 0.59350066356154"
## [1] "AQM390 Manchester 0.652822382564972"
## [1] "AQM391 Manchester 0.279090452201364"
## [1] "AQM391 York 0.678295865896736"

```

equation

```

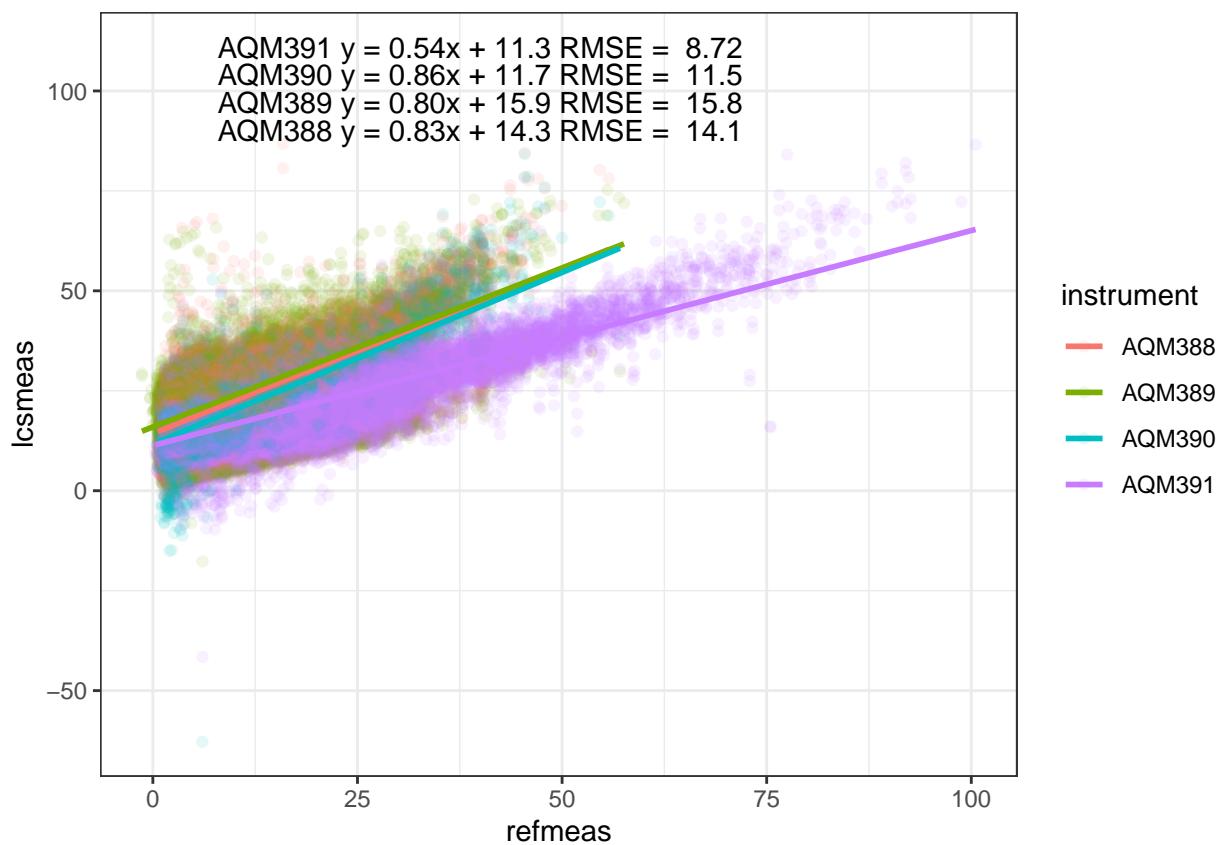
## [1] "AQM388 y = 0.83x + 14.3"
## [1] "AQM389 y = 0.80x + 15.9"
## [1] "AQM390 y = 0.86x + 11.7"
## [1] "AQM391 y = 0.54x + 11.3"

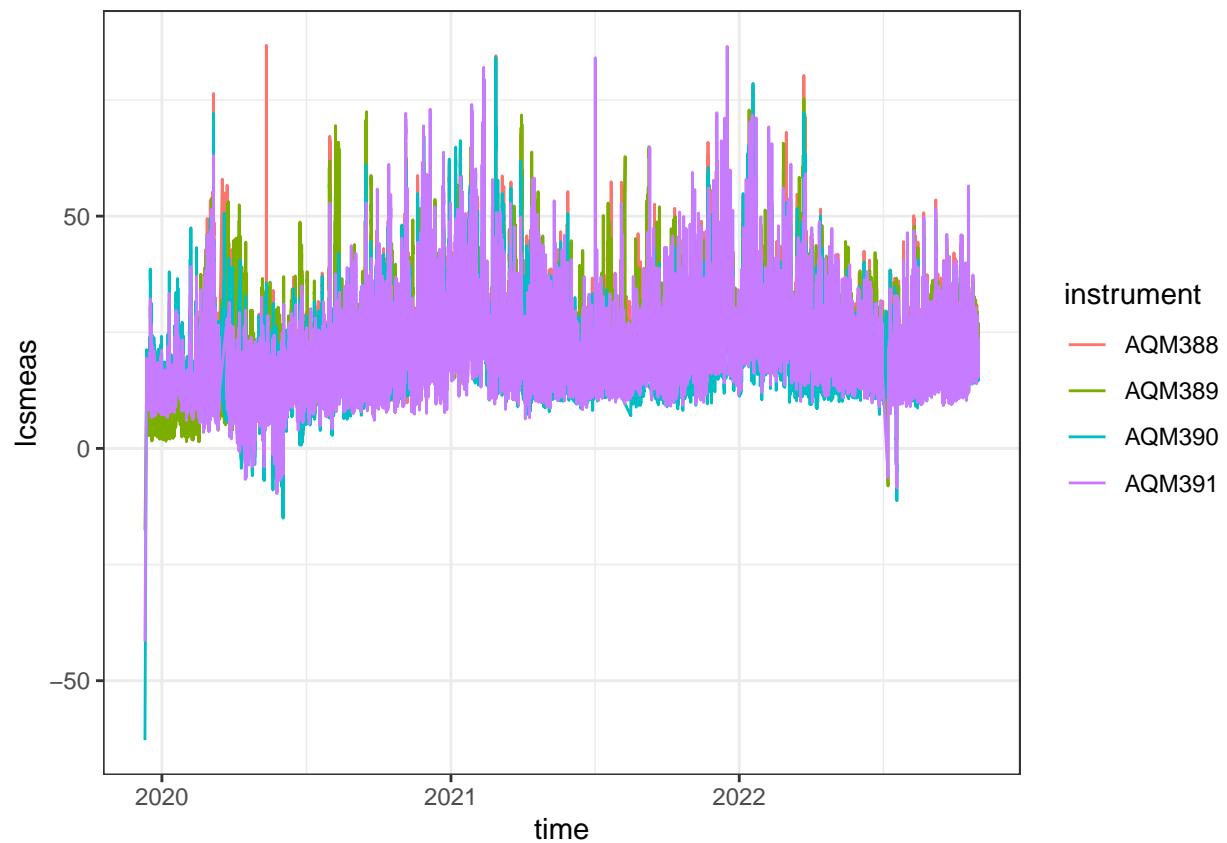
## [1] "AQM388 Manchester y = 0.83x + 14.3"
## [1] "AQM389 Manchester y = 0.27x + 15.9"
## [1] "AQM389 London y = 0.95x + 15.6"
## [1] "AQM390 Manchester y = 0.86x + 11.7"
## [1] "AQM391 Manchester y = 0.52x + 12.6"
## [1] "AQM391 York y = 0.55x + 10.8"

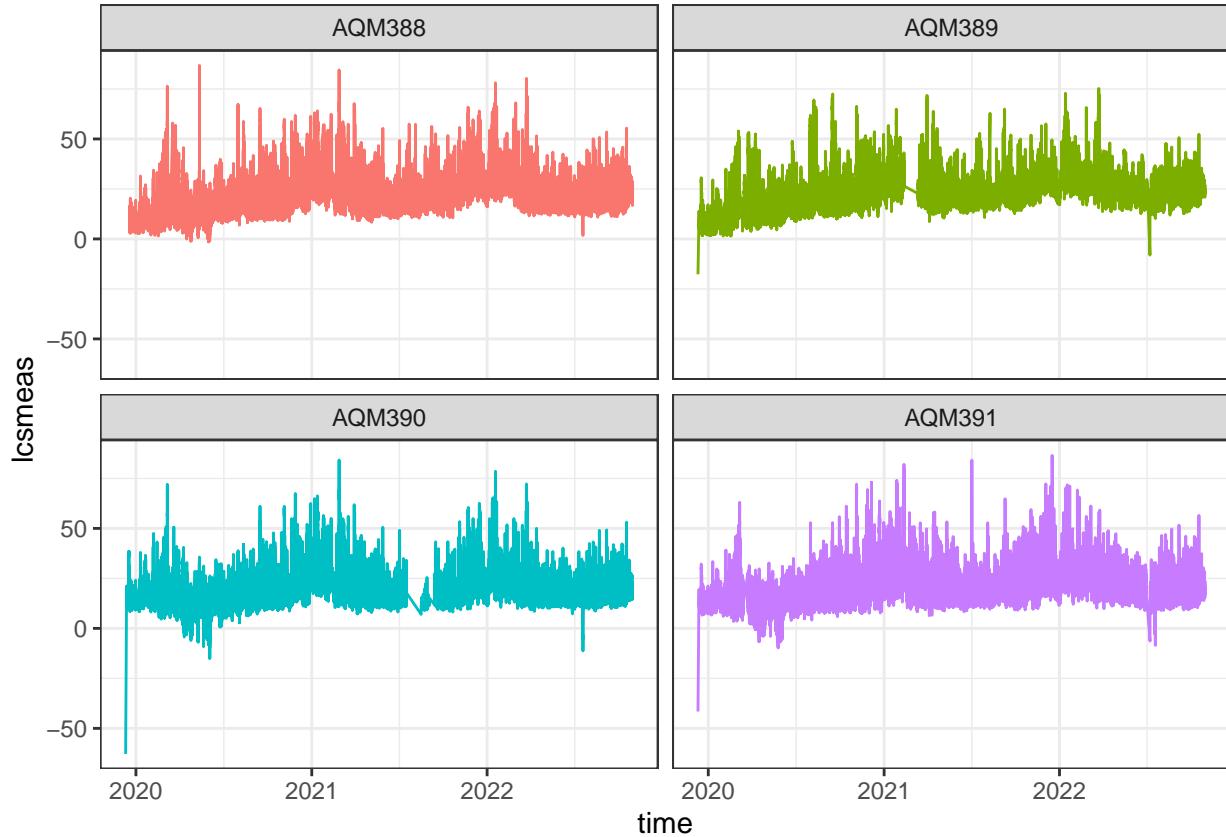
```

plot measurements vs reference measurements

```
## `geom_smooth()` using formula = 'y ~ x'
```







CRMSE and bias

```
## Warning: Missing values are always removed in SQL aggregation functions.
## Use 'na.rm = TRUE' to silence this warning
## This warning is displayed once every 8 hours.
```

