AOD from La Izana

```
rm(list=ls())
setwd("~/WORKSHOP/AOD/")
library(lubridate)
```

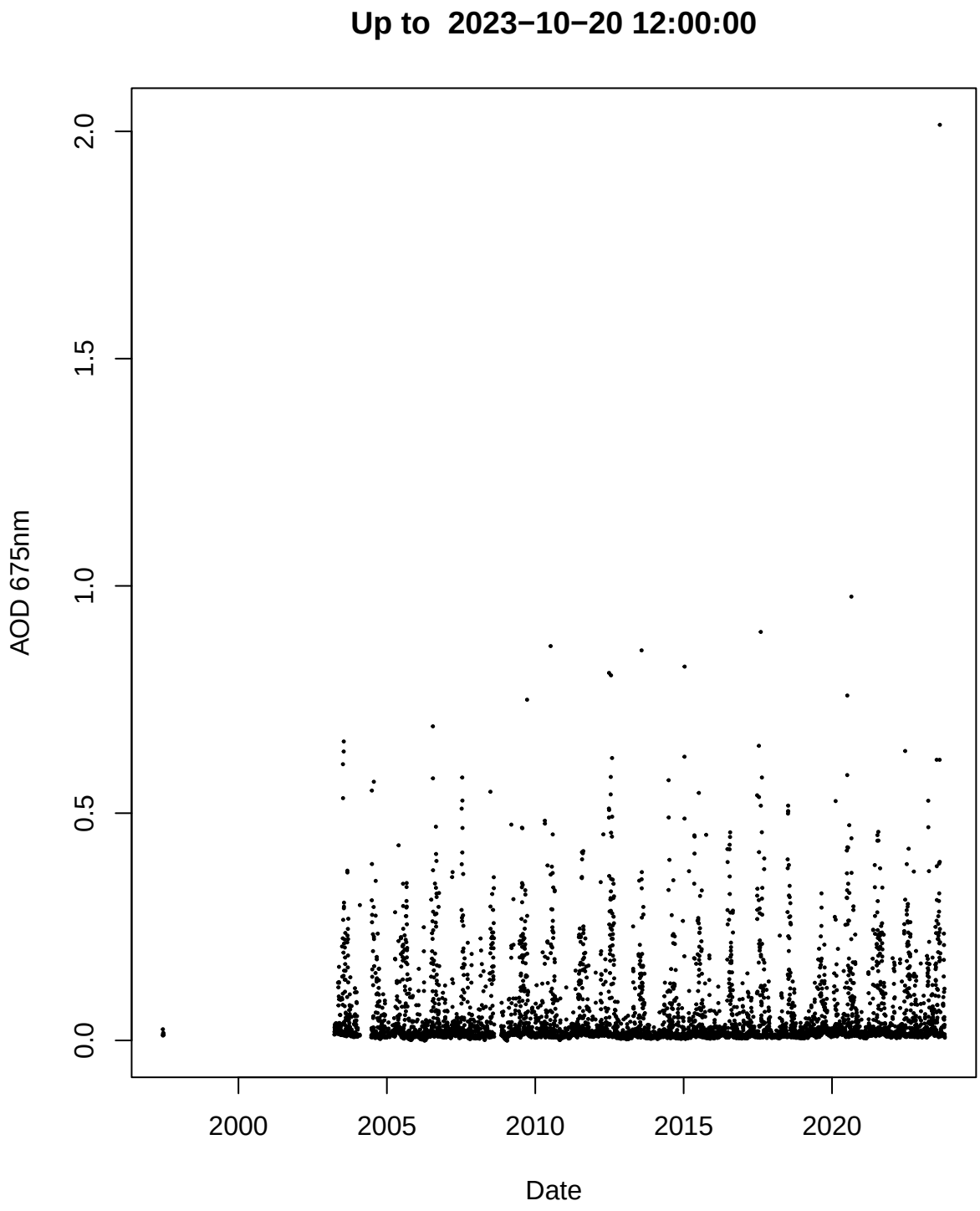
```
##
## Attaching package: 'lubridate'
```

```
## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

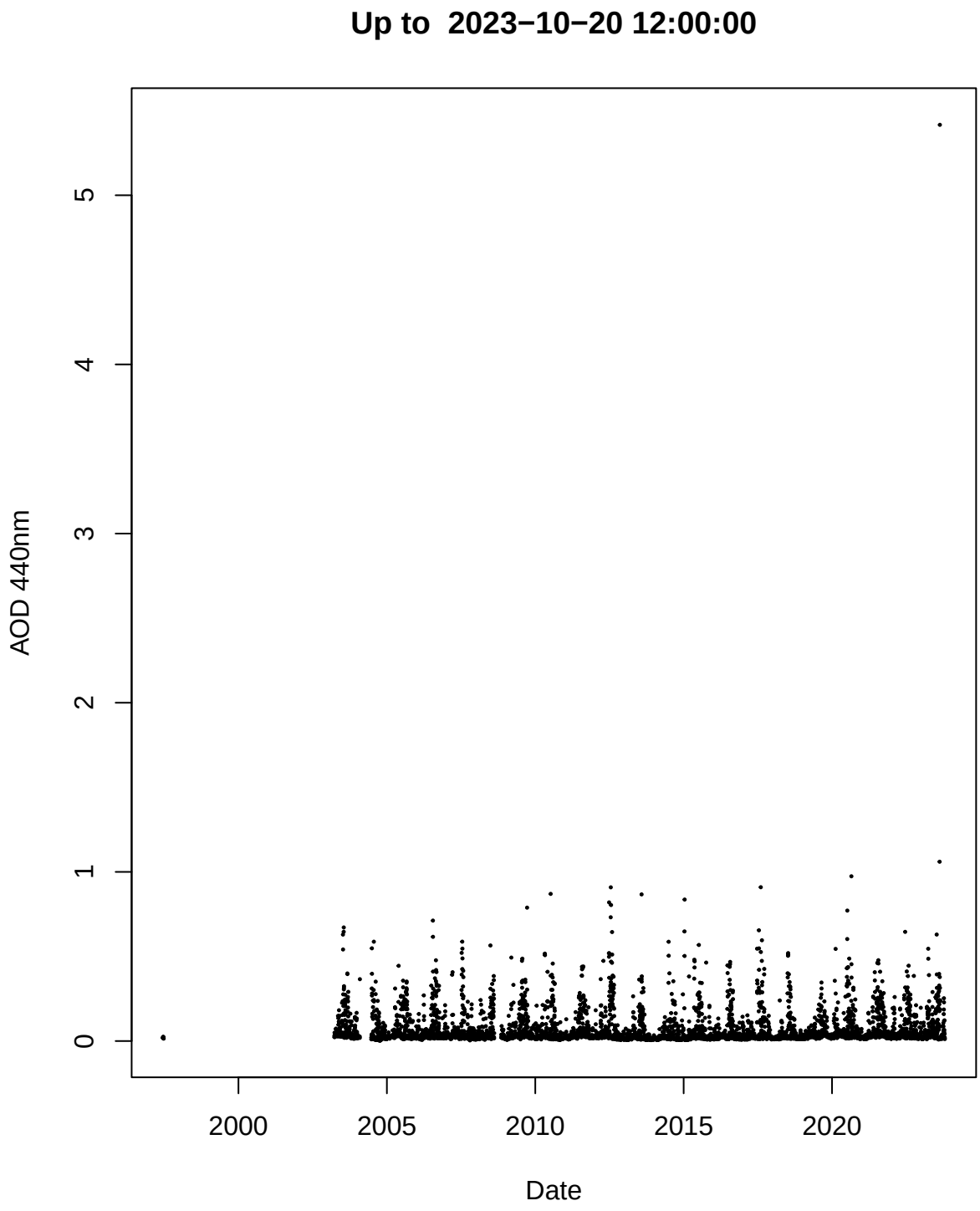
```
df <- read.csv("~/Downloads/AOD/AOD15/DAILY/19930101_20231021_Izana.lev15",sep=",",skip=6,header=T)

cnams <- colnames(df)
# Assuming your date is in dd.mm.yyyy format
df$date_column <- dmy(df$Date.dd.mm.yyyy.)
# Assuming your time is in hh:mm:SS format
df$time_column <- hms(df$Time.hh.mm.ss.)
# Combine the date and time columns to create POSIX time
df$posix_time <- as.POSIXct(df$date_column + df$time_column, tz = "UTC")

# Now df$posix_time contains POSIX time values
```

#Plot

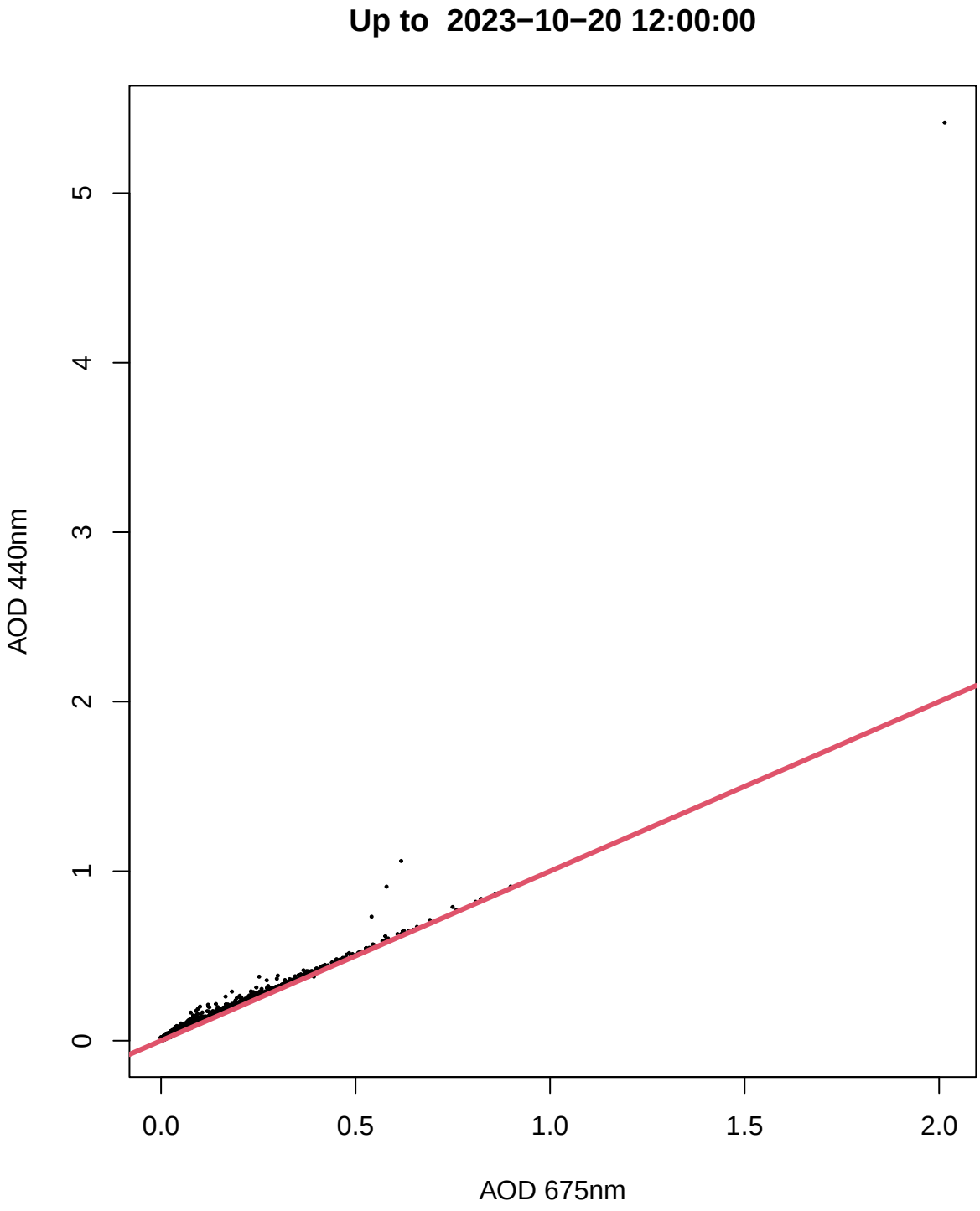
```
idx <- which(df$AOD_675nm != -999 & df$AOD_440nm != -999)
last <- df$posix_time[idx[length(idx)]]
plot(df$posix_time[idx],df$AOD_675nm[idx],xlab="Date",ylab="AOD 675nm",pch=19,cex=0.2,main=paste('Up to
```




```
plot(df$posix_time[idx],df$AOD_440nm[idx],xlab="Date",ylab="AOD 440nm",pch=19,cex=0.2,main=paste('Up to
```




```
plot(df$AOD_675nm[idx],df$AOD_440nm[idx],pch=19,cex=0.2,xlab="AOD 675nm",ylab="AOD 440nm",main=paste('Up
abline(c(0,1),col=2,lwd=3)
```


Up to 2023−10−20 12:00:00
AOD 440nm
0
1
2
3
4
5
0.0
0.5
1.0
1.5
2.0
AOD 675nm