library(openair)

mydata= PmCampall

summary(mydata)

**WIND ROSE**

mydata$date = as.POSIXct(strptime(mydata$date, format = "%d/%m/%Y %H:%M", "GMT"))

mydata[, 2] <- as.numeric(as.character( mydata[, 2] ))

mydata[, 3] <- as.numeric(as.character( mydata[, 3] ))

windRose(mydata)

windRose(mydata, ws = "ws", wd = "wd", ws2 = NA, wd2 = NA, ws.int = 2, angle = 30, type = "default", bias.corr = TRUE, cols = "default", grid.line = NULL, width = 1,seg = NULL, auto.text = TRUE, breaks = 4, offset = 10, max.freq = NULL, paddle = TRUE, key.header = NULL,key.footer = "(m/s)", key.position = "bottom", key = TRUE, dig.lab = 5, statistic = "prop.count", pollutant = NULL, annotate = TRUE, border = NA)

**POLLUTION ROSE**

mydata$date = as.POSIXct(strptime(mydata$date, format = "%d/%m/%Y %H:%M", "GMT"))

mydata[, 2] <- as.numeric(as.character( mydata[, 2] ))

mydata[, 3] <- as.numeric(as.character( mydata[, 3] ))

mydata[, 4] <- as.numeric(as.character( mydata[, 4] ))

pollutionRose(mydata,pollutant="Pm10",key.header="PM10(µg/m3)",key.footer="",grid.line=5,breaks=c(10,25,40,55),main="Eldery Care Center")

**POLAR PLOT**

polarPlot(mydata, pollutant = "Pm10")

**PERCENTIL ROSE**

percentileRose(mydata, pollutant = "Pm10")