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# Install "openair" package
install.packages("openair")

# Load "openair" package
library(openair)

# Let's take a look at the default data set
View(mydata)

# Default rose chart
windRose(mydata)

# Let's improve it a bit
# Set up the intervals
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20))

# Use FALSE in paddle to have a "wedge" style spokes
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20),
  auto.text = FALSE, paddle = FALSE)

# Add some annotations
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20),
  auto.text = FALSE, paddle = FALSE,
  annotate = TRUE)

# Specify the grid line interval
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20),
  auto.text = FALSE, paddle = FALSE,
  annotate = TRUE,
  grid.line = 5)

# Change the legen lables so they are consistent with the breaks
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20),
  auto.text = FALSE, paddle = FALSE,
  annotate = TRUE,
  grid.line = 5,
  key=list(labels=c(">0-2", ">2-4", ">4-6", ">6-8", ">8-10", ">10-15", ">15-20")))

# Change the defalut footer so it describes the unit of your variable
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20),
  auto.text = FALSE, paddle = FALSE,
  annotate = TRUE,
  grid.line = 5,
  key=list(labels=c(">0-2", ">2-4", ">4-6", ">6-8", ">8-10", ">10-15", ">15-20")),
  key.footer = "WSP (m/s)")

# Find the best legend location
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20),
  auto.text = FALSE, paddle = FALSE,
  annotate = TRUE,
  grid.line = 5,
  key=list(labels=c(">0-2", ">2-4", ">4-6", ">6-8", ">8-10", ">10-15", ">15-20")),
  key.footer = "WSP (m/s)",
  key.position = "right")

# Use one of the color pallets "heat", "hue", "jet", "increment"
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20),
  auto.text = FALSE, paddle = FALSE,
  annotate = TRUE,
  grid.line = 5,
  key=list(labels=c(">0-2", ">2-4", ">4-6", ">6-8", ">8-10", ">10-15", ">15-20")),
  key.footer = "WSP (m/s)",
  key.position = "right",
  cols="hue")

# Or create your own color palette
windRose(mydata, ws="ws", wd="wd", breaks=c(0,2,4,6,8,10,15,20),
  auto.text = FALSE, paddle = FALSE,
  annotate = TRUE,
  grid.line = 5,
  key=list(labels=c(">0-2", ">2-4", ">4-6", ">6-8", ">8-10", ">10-15", ">15-20")),
  key.footer = "WSP (m/s)",
  key.position = "right",
  cols = c("#a9d6e5", "#89c2d9", "#61a5c2", "#468faf", "#2c7da0", "#013a63", "#013a63"))

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