#1

str1="http://www.ndbc.noaa.gov/view\_text\_file.php?filename="

str2=".txt.gz&dir=data/historical/stdmet/"

buoynum<-"51201"

y1<-2012

y2<-2014

data<-NULL

while(y1<=y2){

fyl<-paste0(str1,buoynum,"h",y1,str2)

header<-scan(fyl,nlines=1,what=character())

buoy<-read.table(fyl,skip=2,header=FALSE)

colnames(buoy)<-header

data<-c(data,buoy$WTMP)

cat(paste(y1))

y1<-y1+1

}

par (mfrow=c(1,1))

plot(data,type="l")

mm<-c(1:length(data))

reg1<-lm(data~mm)

summary(reg1)

qf(.95,1,length(mm))

plot(reg1)

abline(reg1,col = "red")

data<-NULL

while(y1<=y2){

fyl<-paste0(str1,buoynum,"h",y1,str2)

header<-scan(fyl,nlines=1,what=character())

buoy<-read.table(fyl,skip=2,header=FALSE)

colnames(buoy)<-header

data<-c(data,buoy$WVHT)

cat(paste(y1))

y1<-y1+1

}

plot(data,type="l")

mm<-c(1:length(data))

reg1<-lm(data~mm)

summary(reg1)

qf(.95,1,length(mm))

plot(reg1)

abline(reg1,col = "red")

data<-NULL

while(y1<=y2){

fyl<-paste0(str1,buoynum,"h",y1,str2)

header<-scan(fyl,nlines=1,what=character())

buoy<-read.table(fyl,skip=2,header=FALSE)

colnames(buoy)<-header

#buoy$WTMP[buoy$DPD==999]<-NA

data<-c(data,buoy$DPD)

cat(paste(y1))

y1<-y1+1

}

plot(data,type="l")

mm<-c(1:length(data))

reg1<-lm(data~mm)

summary(reg1)

qf(.95,1,length(mm))

plot(reg1)

abline(reg1,col = "red")