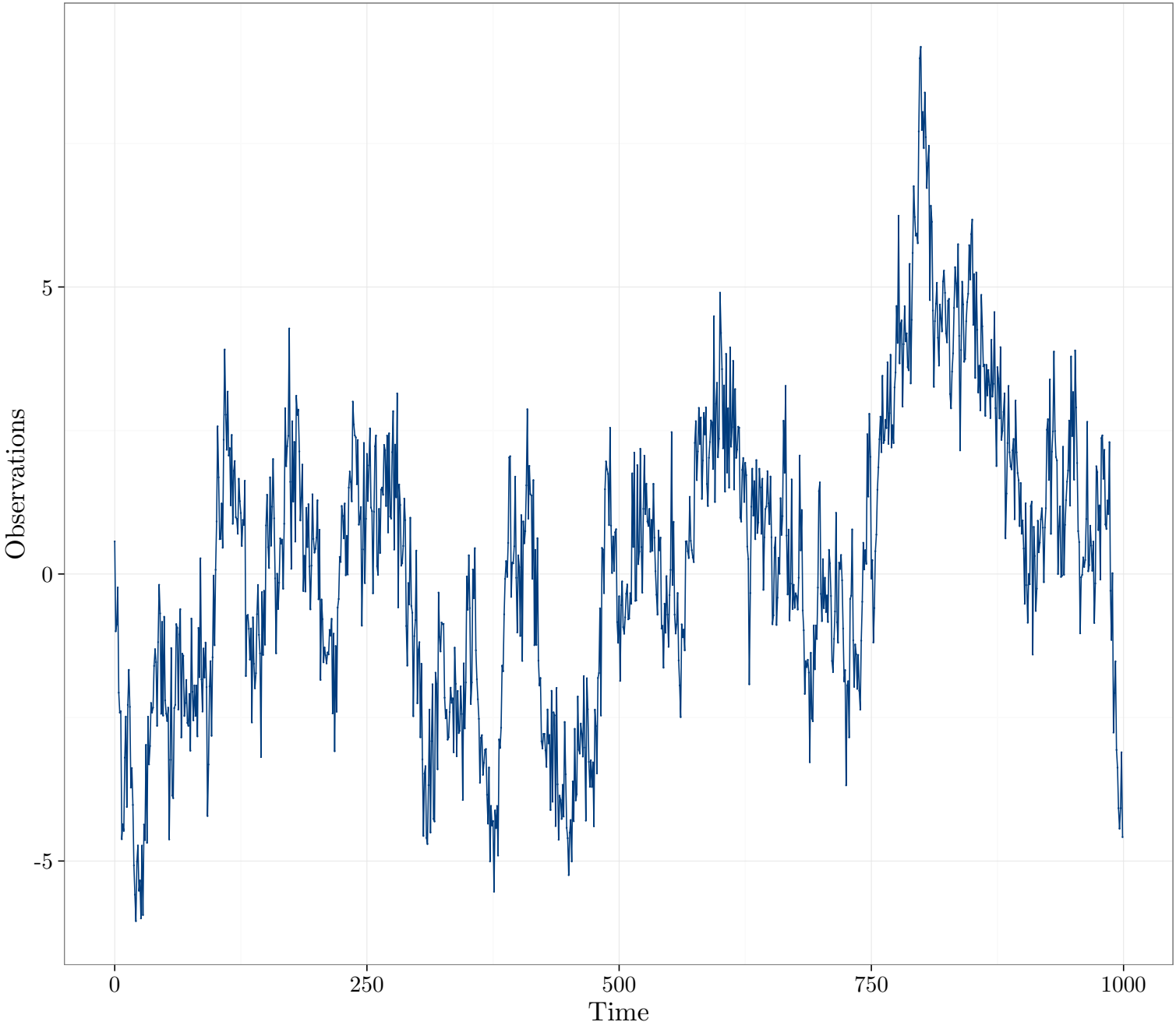
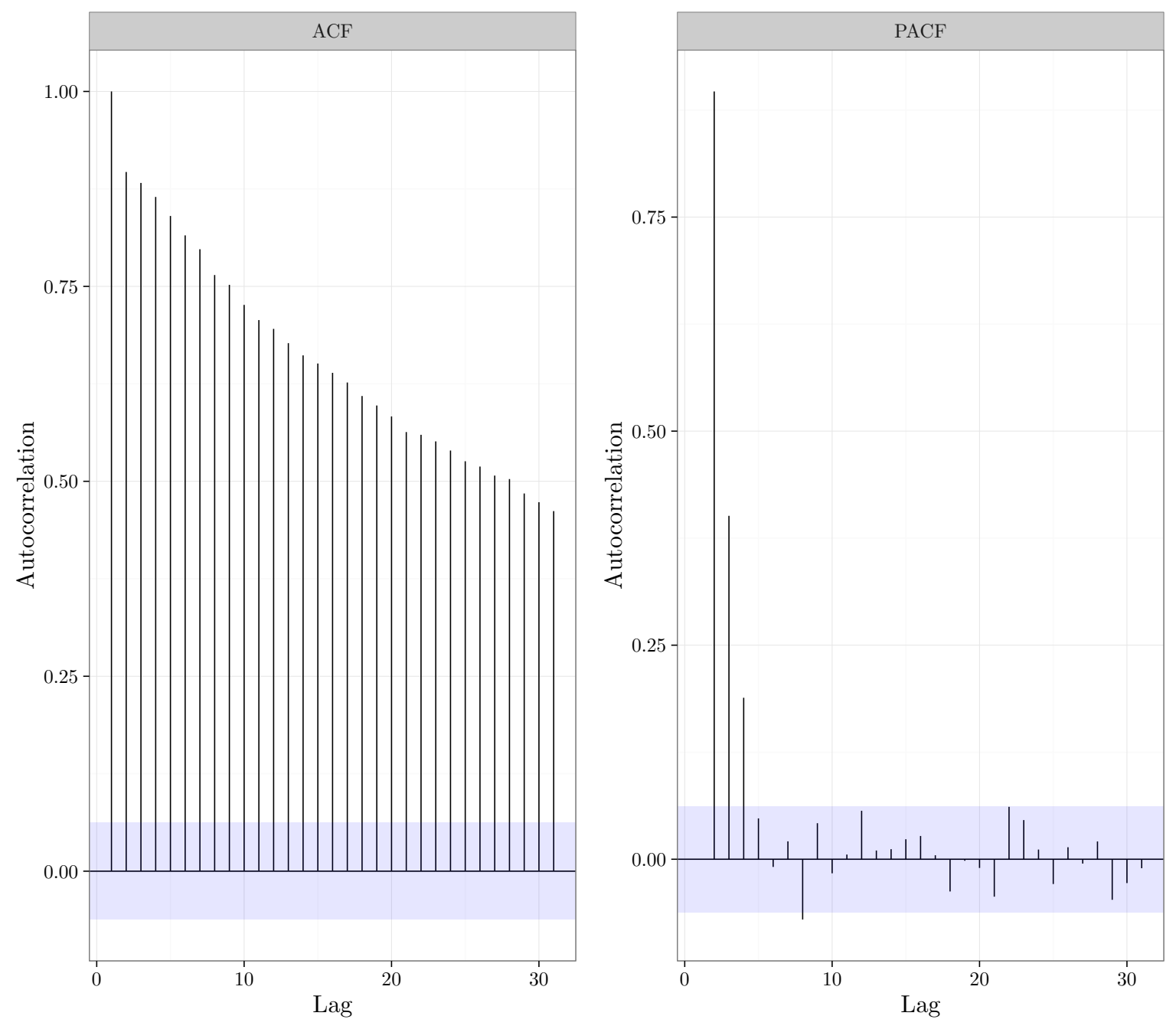
```r
mon.ACF.de.bonhomme = function(Xt, type = "ACF"){
  # Inputs:
  # Xt -> time series
  # type -> type of graphs: "ACF", "ACF/PACF" or "RACF"

  # Compute ACF
  Yt = gts(Xt, name = "ACF")
  acf.graph = plot(ACF(Yt))

  if (type == "ACF"){
    acf.graph
  }else{
    if (type == "ACF/PACF"){
      # Compute PACF
      Zt = gts(Xt, name = "PACF")
      pacf = acf(Xt, type = "partial", plot = FALSE)
      inter = ACF(Zt)
      inter[,,] = c(NA,pacf$acf)
      pacf.graph = plot(inter)
      grid.arrange(acf.graph,pacf.graph, nrow = 1)
    }else{
      if (type == "RACF"){
        Yt = gts(Xt, name = "Classical ACF")
        acf.graph = plot(ACF(Yt))

        Wt = gts(Xt, name = "Robust ACF")
        racf = robacf(Xt, plot=FALSE)$acf
        inter = ACF(Wt)
        inter[,,] = racf
        racf.graph = plot(inter)
        grid.arrange(acf.graph,racf.graph, nrow = 1)
      }else{
        cat("Error")
      }
    }
  }
}
```

```r
library(gmwm)
```

```
## Loading required package:  ggplot2
```

```r
library(tikzDevice)
library(gridExtra)
library(robcor)
```


Observations
5
0
-5
0
250
500
750
1000
Time


ACF
PACF
Autocorrelation
Lag
1.00
0.75
0.50
0.25
0.00
0
10
20
30