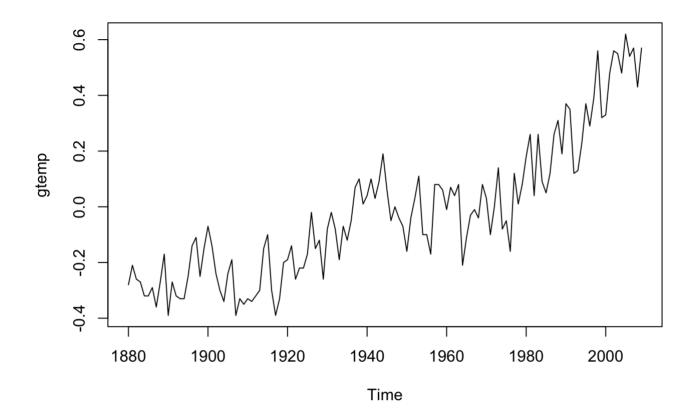
12_acf_case_studies.R

felixreichel

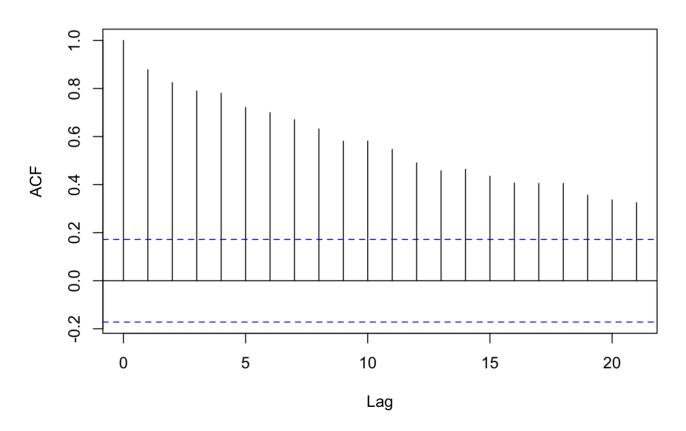
2021-10-29

```
# Course: Time series analysis
# Exercise: 12th / ACF Case Studies
# Author: Felix Reichel
require(astsa)
## Loading required package: astsa
require(tseries)
## Loading required package: tseries
## Registered S3 method overwritten by 'quantmod':
   method
                        from
     as.zoo.data.frame zoo
# def. (weakly) stationary:
# I: \mu(t) = \mu
# II: \sigma^2(t) = \sigma^2
# III: \gamma(t, s) = \gamma(t - s)
# 1
plot(gtemp)
```

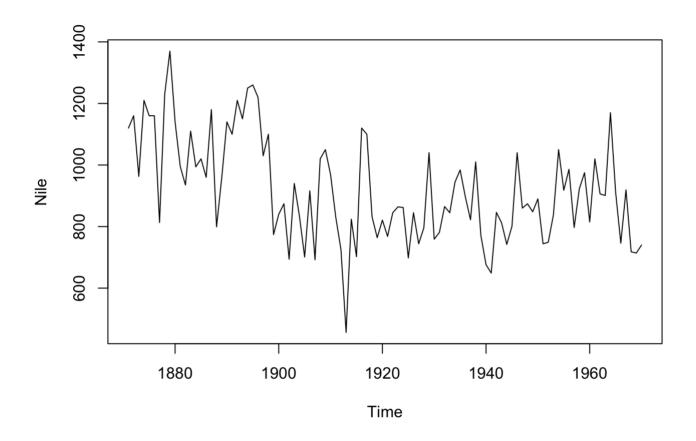


acf(gtemp)

Series gtemp

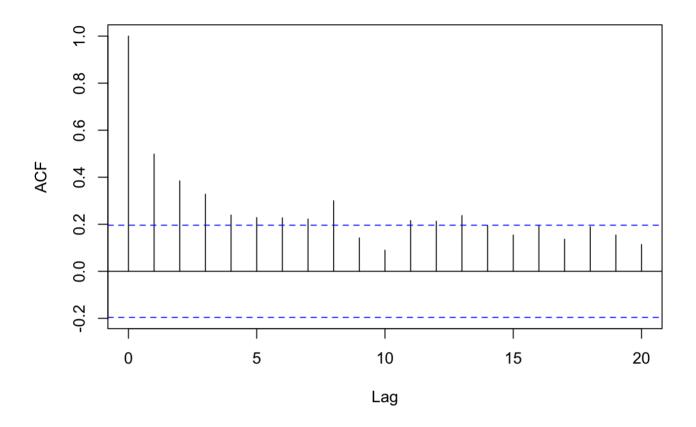


```
# 2
plot(Nile)
```

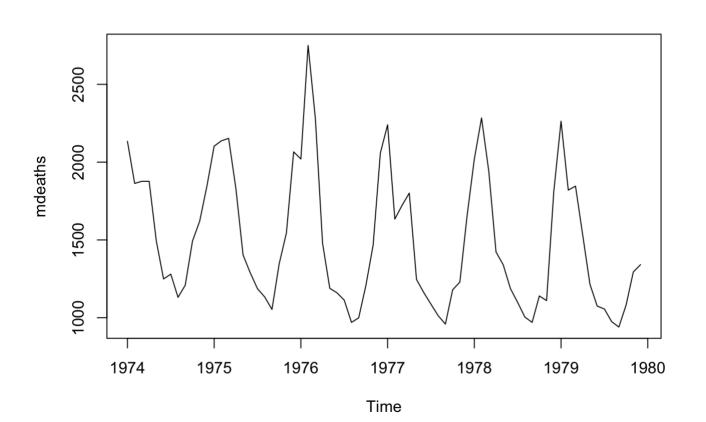


acf(Nile)

Series Nile

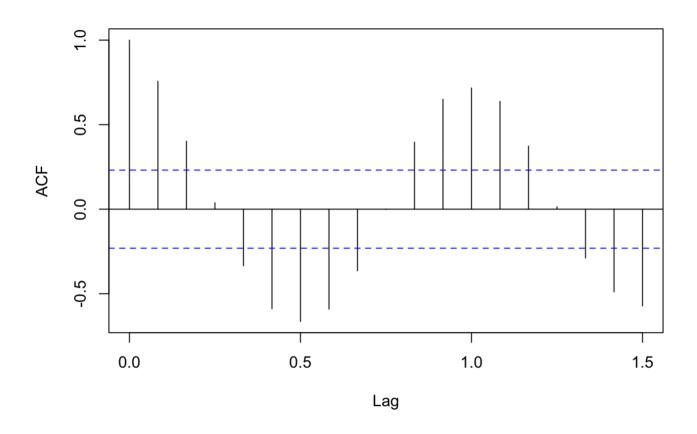


3
plot(mdeaths)

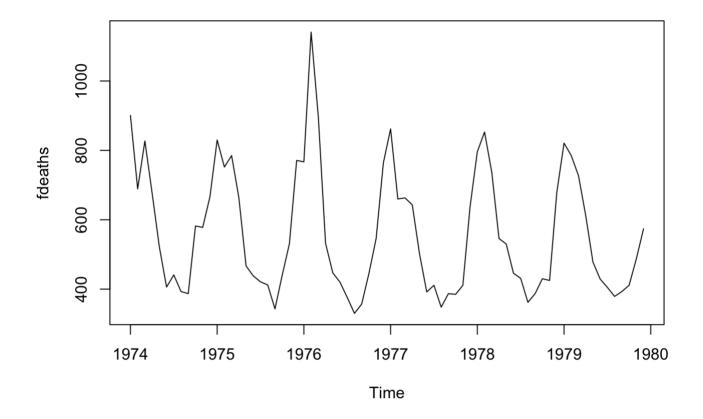


acf(mdeaths)

Series mdeaths

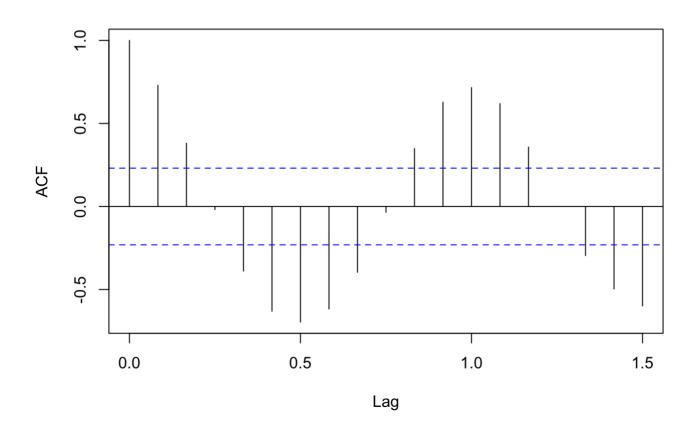


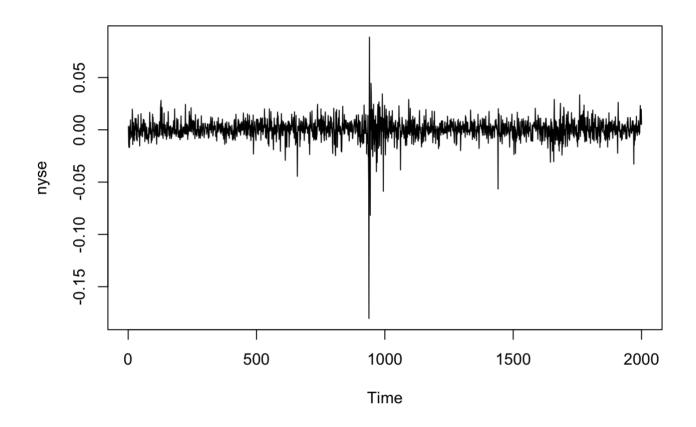
plot(fdeaths)



acf(fdeaths)

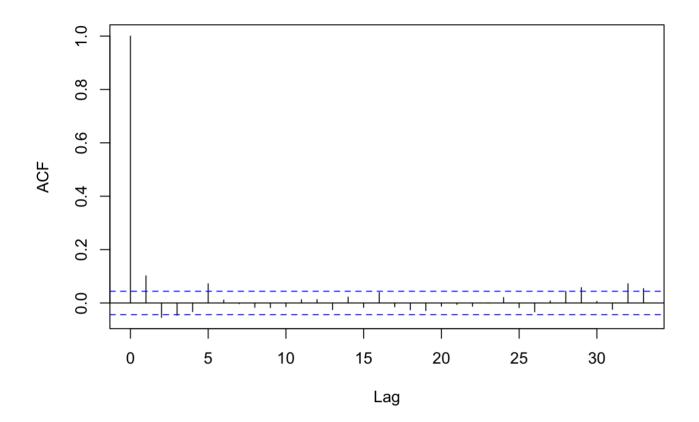
Series fdeaths





acf(nyse)

Series nyse



acf(nyse, lag.max = 1000) # could be generated by a stationary process

Series nyse

