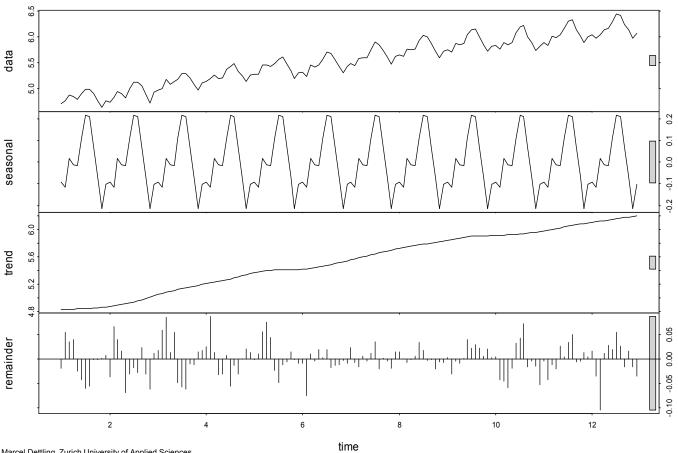# *STL-Decomposition: Constant Season*

```
stl(log(ts(airline,freq=12)),s.window=„periodic“)
```
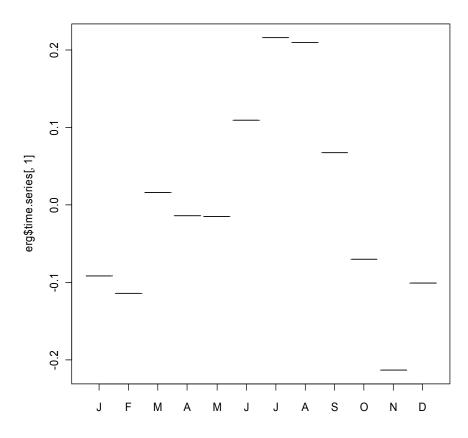
STL-Decomposition: Constant Season

```
stl(log(ts(airline,freq=12)),s.window=„periodic")
```
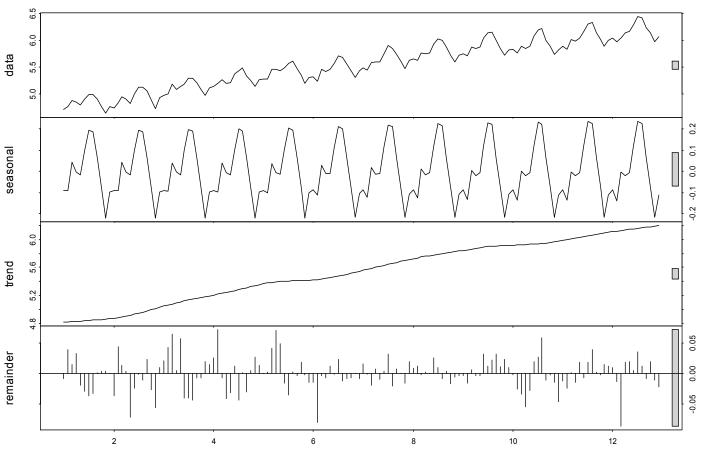

the seasonal effect here is not time varying

STL-Decomposition: Evolving Season

```
stl(log(ts(airline,freq=12)),s.window=15)
```
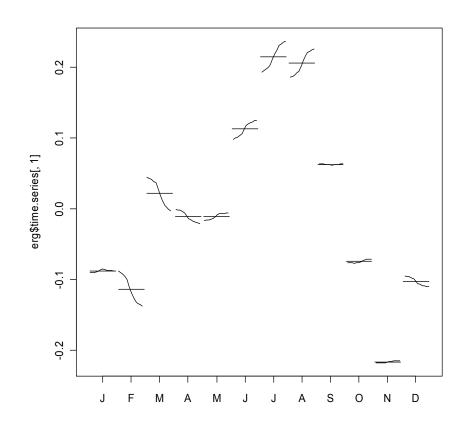
time

STL-Decomposition: Evolving Season
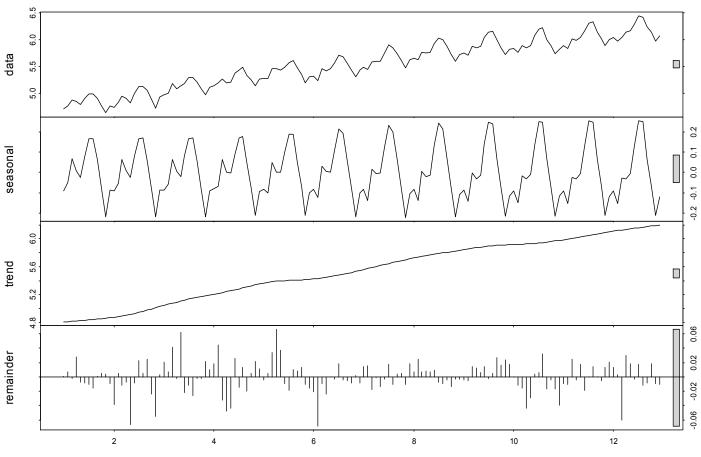
```
stl(log(ts(airline,freq=12)),s.window=15)
```


correct amount of smoothing on the time varying seasonal effect

STL-Decomposition: Evolving Season

```
stl(log(ts(airline,freq=12)),s.window=7)
```

time

STL-Decomposition: Evolving Season

```
stl(log(ts(airline,freq=12)),s.window=7)
```
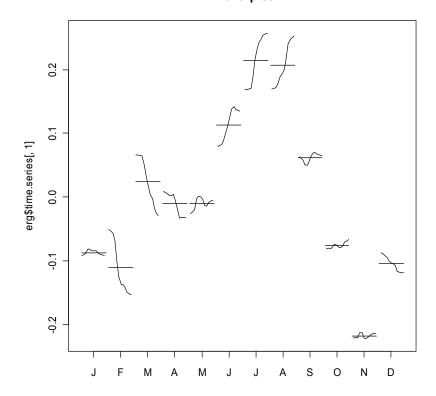
Monthplot

not enough smoothing on the time varying seasonal effect