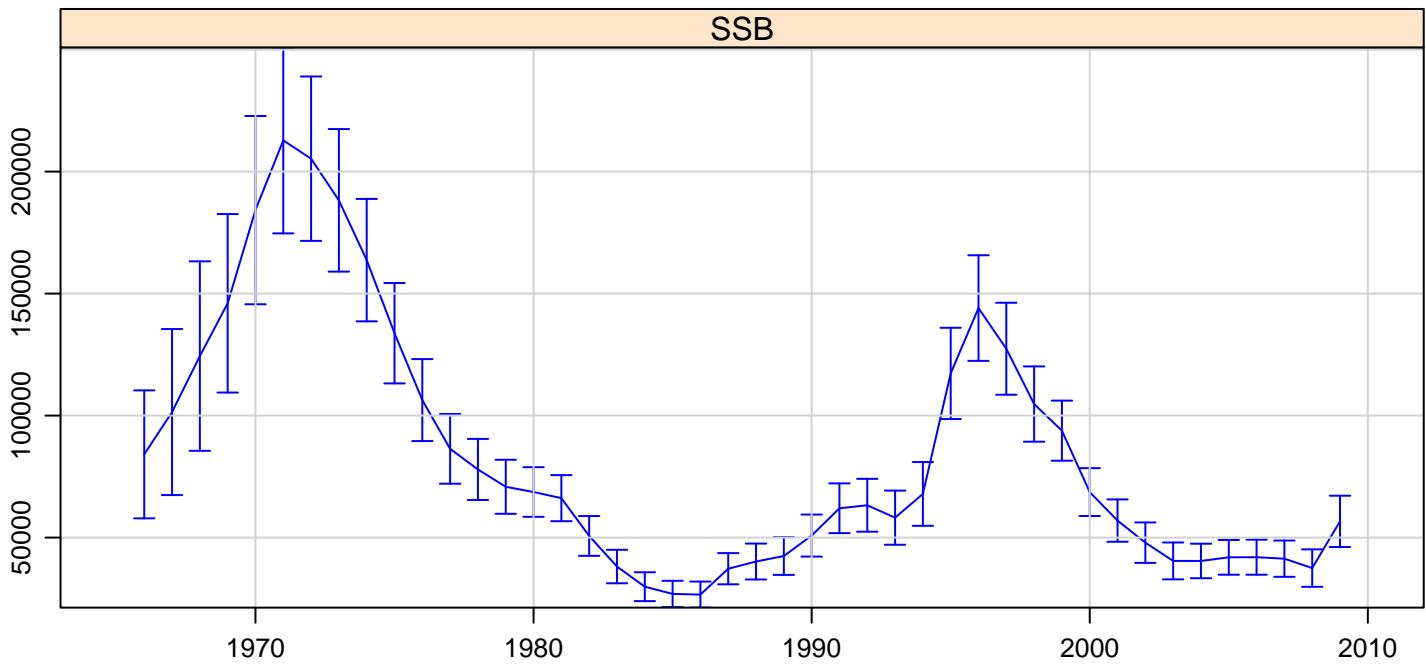
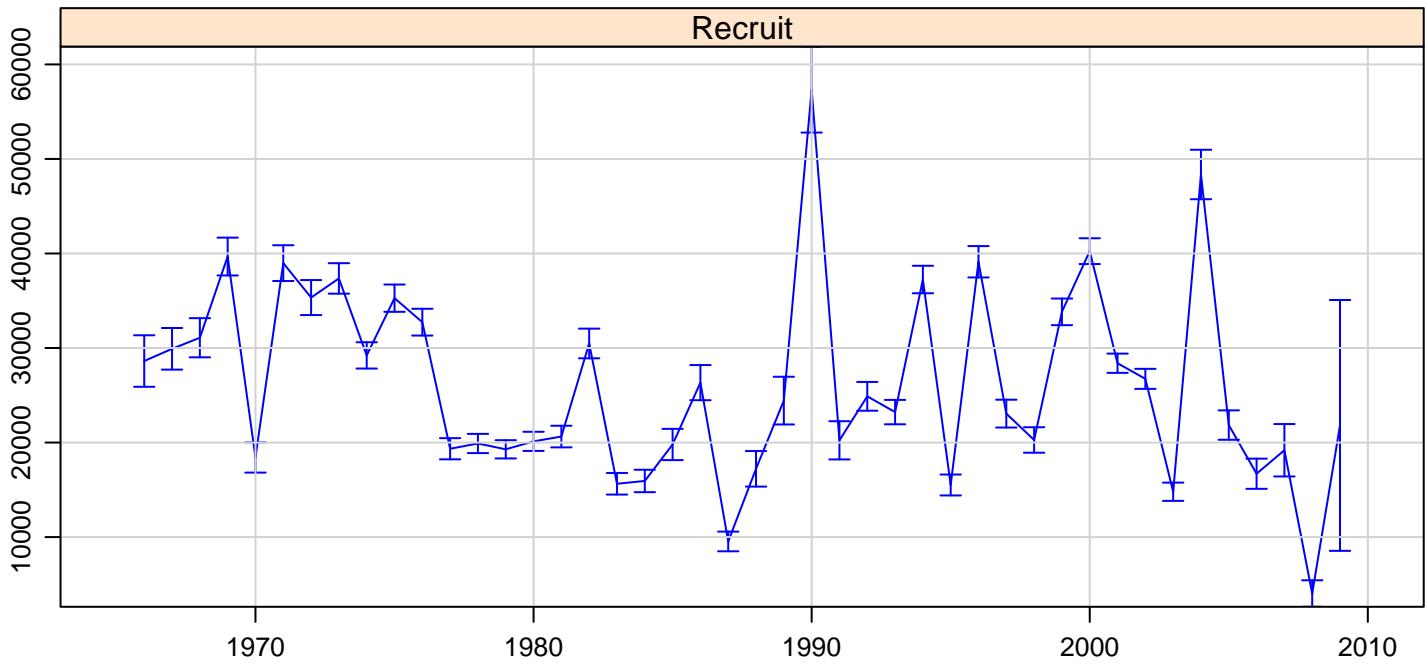


### SSB with 1SD



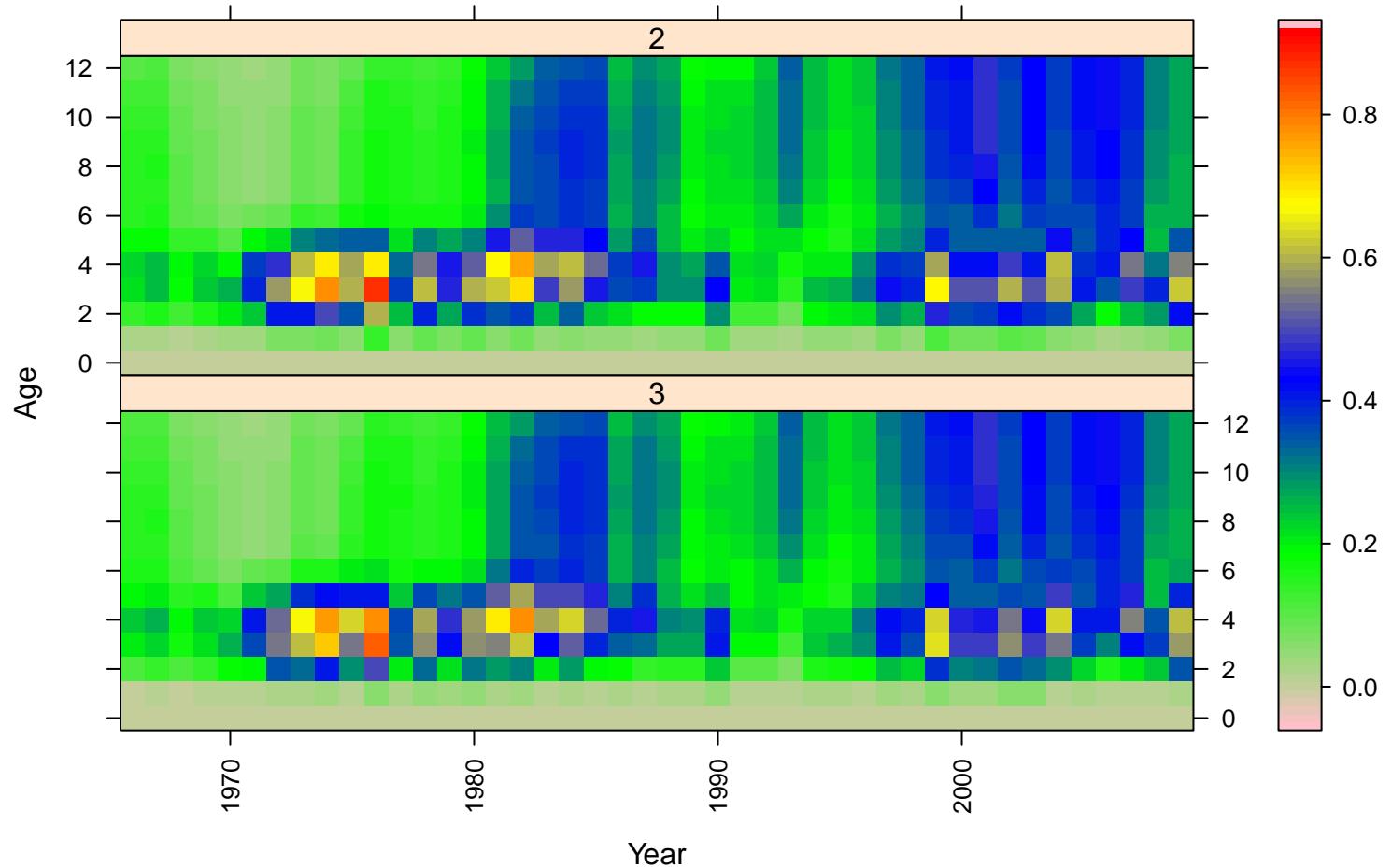
Recruit



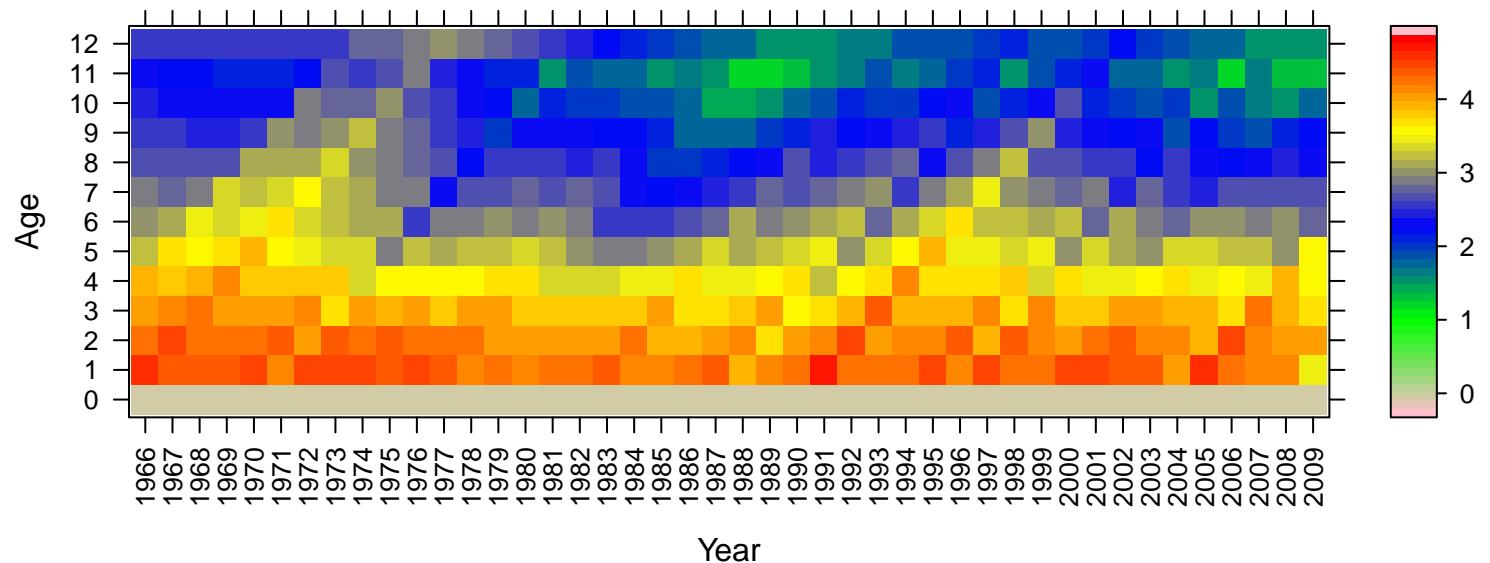
StockRecruit



**annual F@A by Morph**

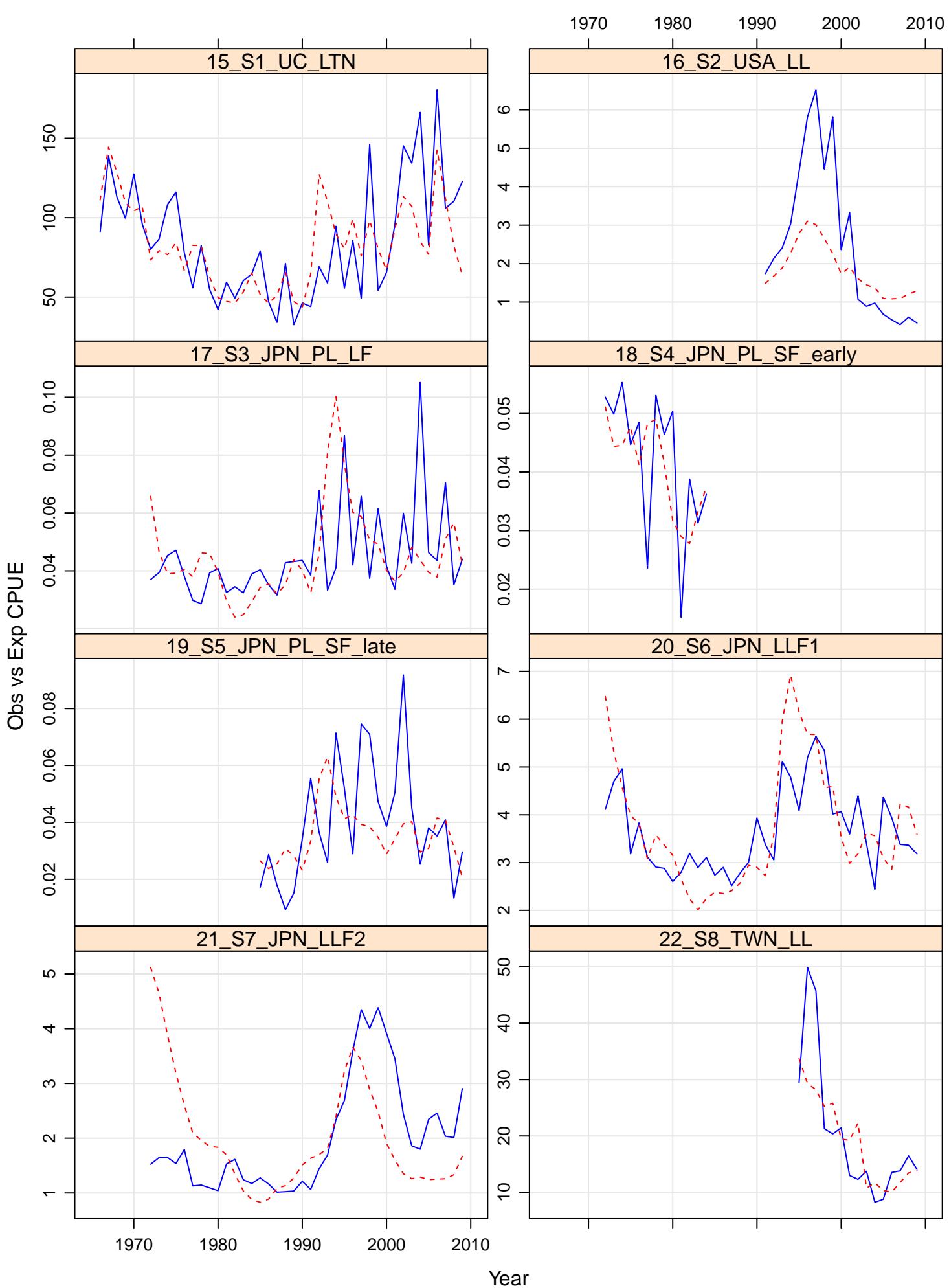


**Numbers at age in log10 at the begining of Q1**



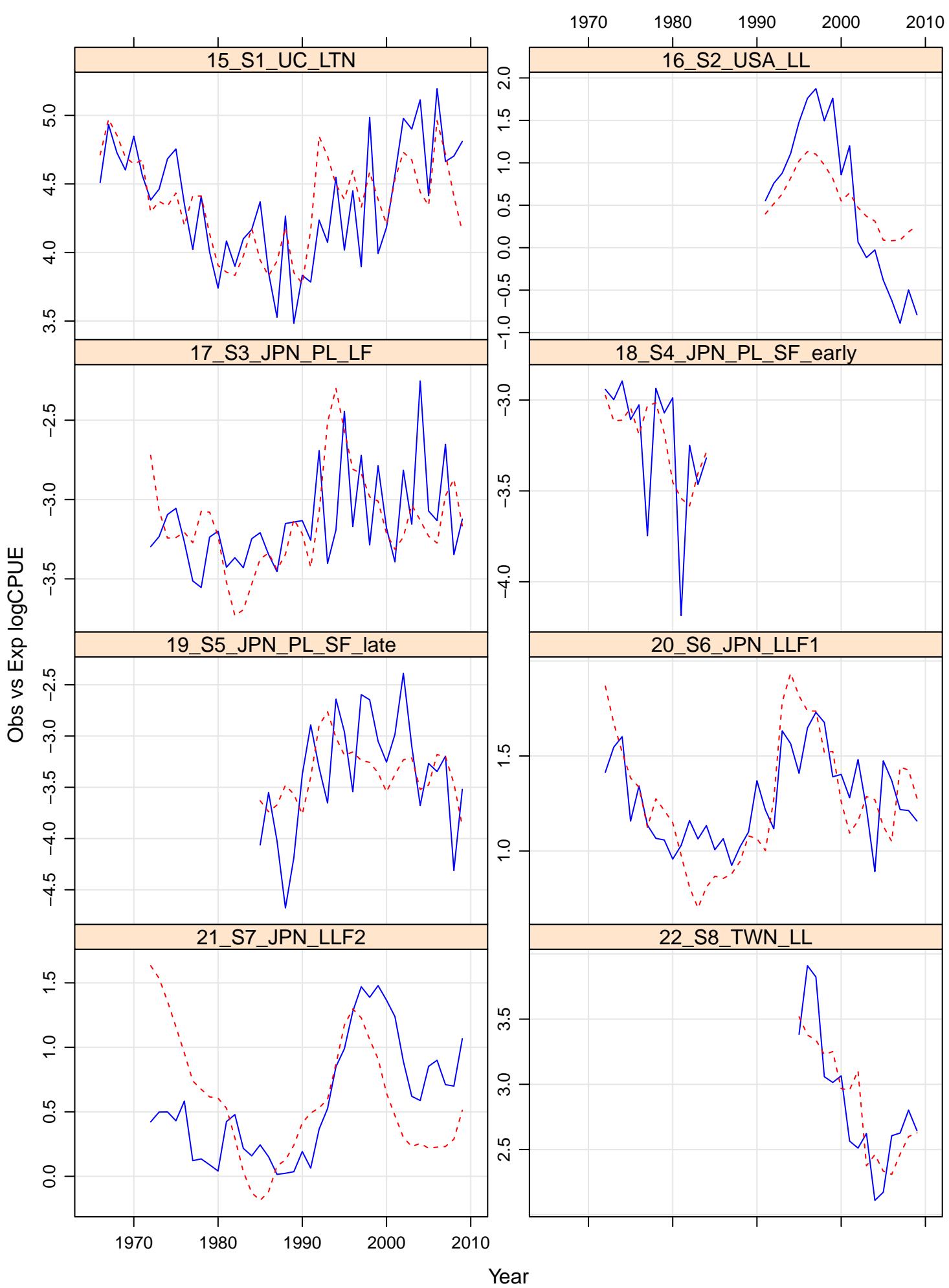
### Expected vs Observed CPUEs

Obs   ○   Exp   ○

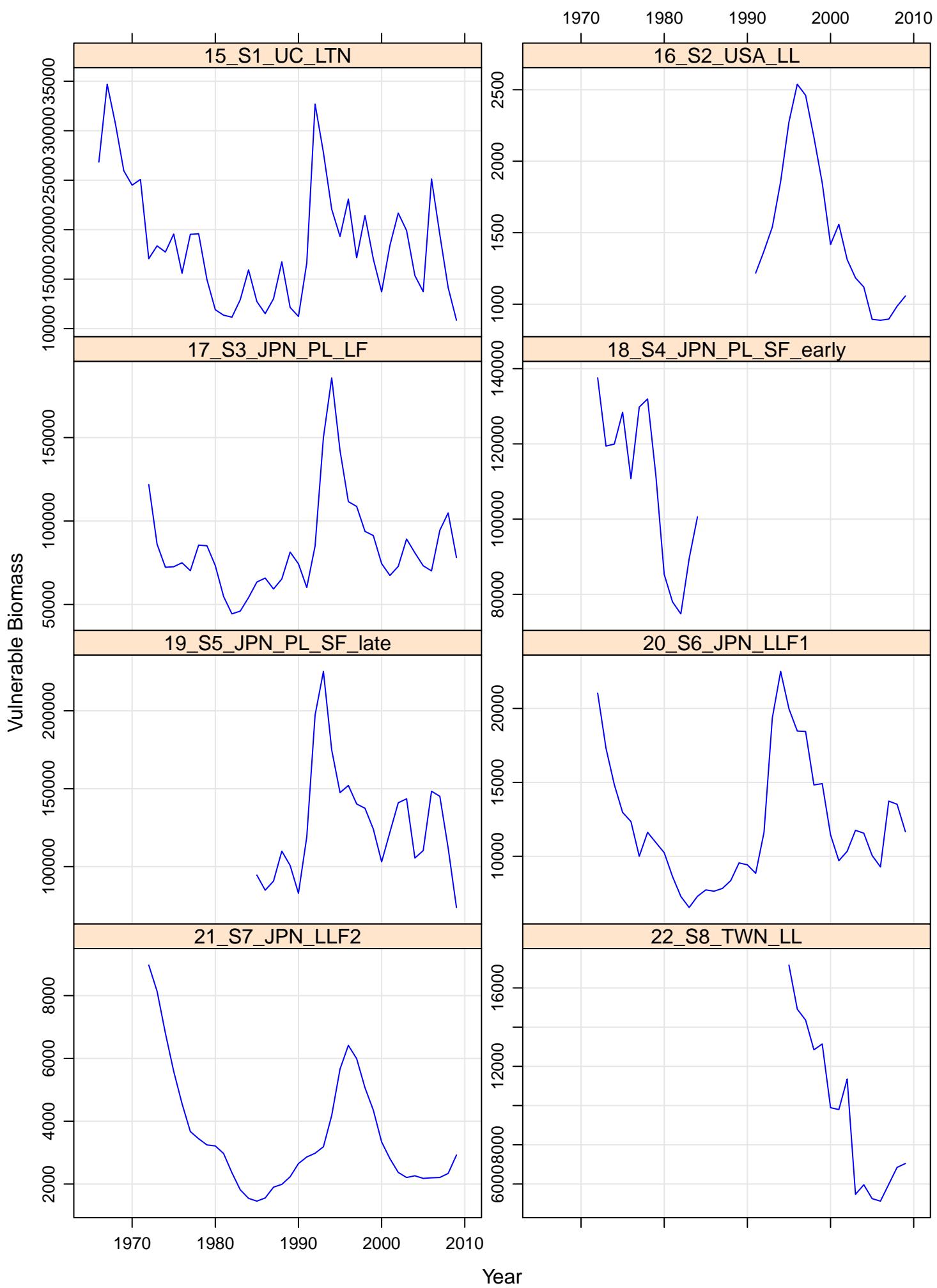


### Obs vs Exp logCPUE

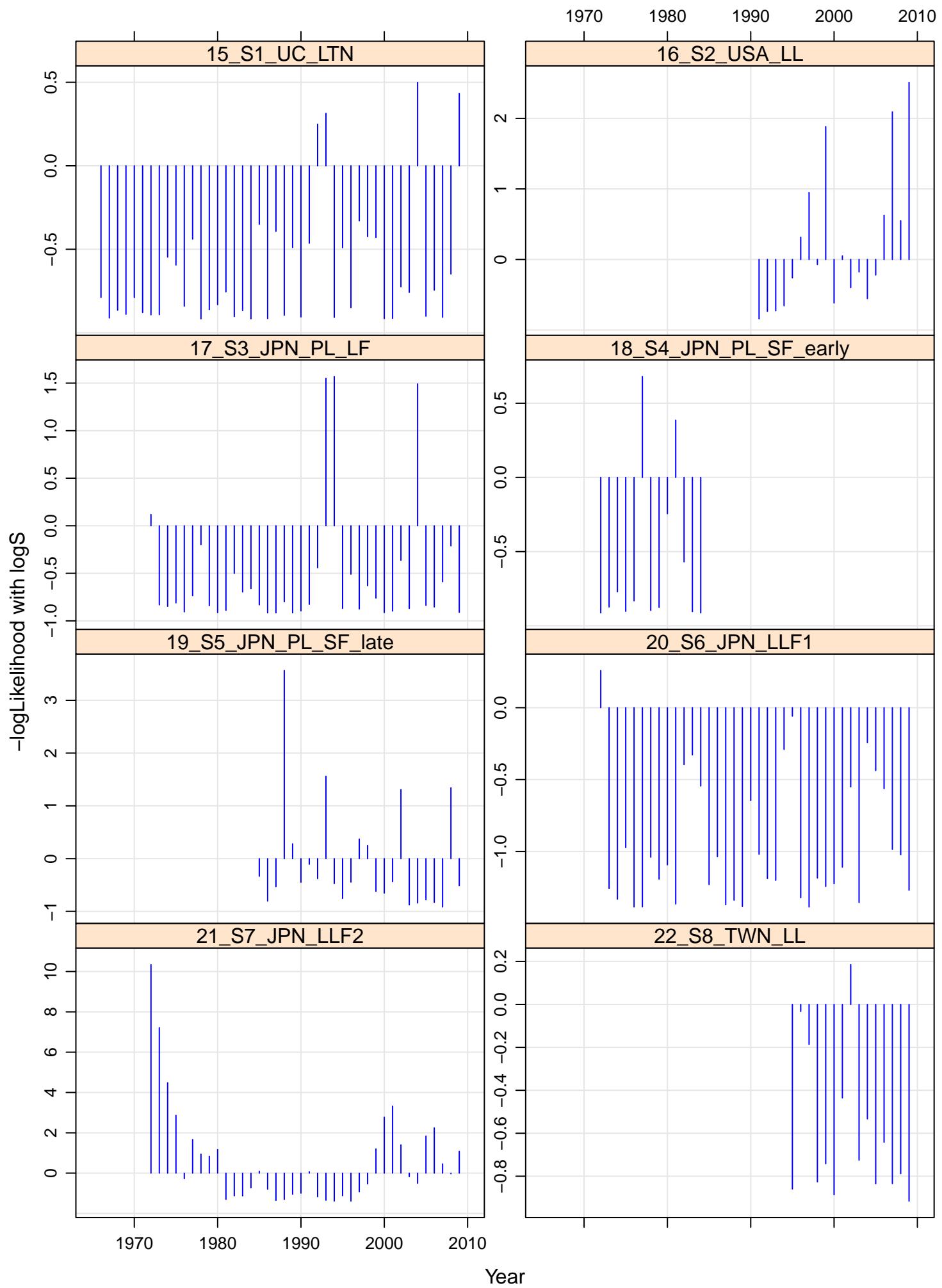
logObs    ○    logExp    ○



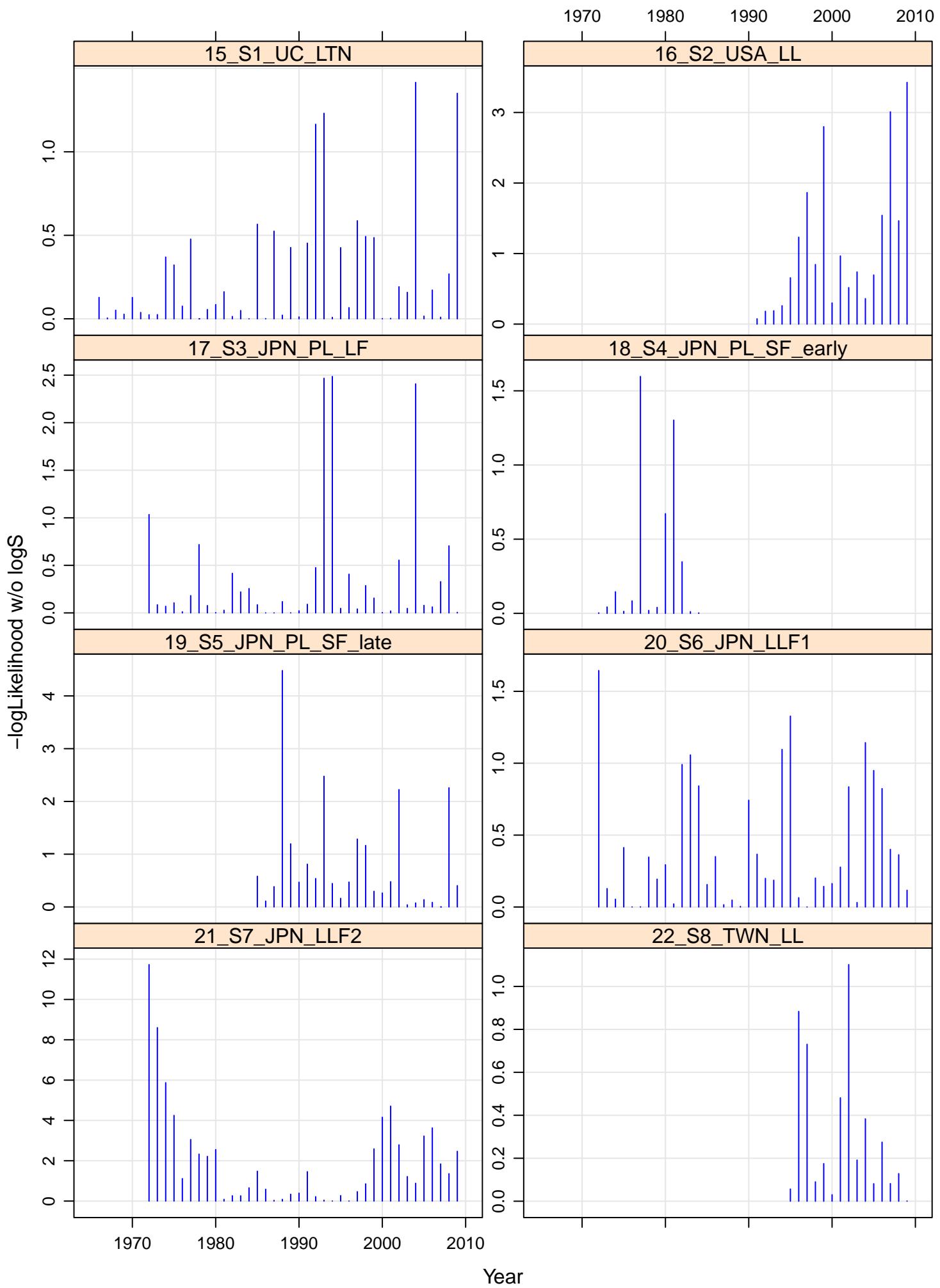
## Vulnerable biomass



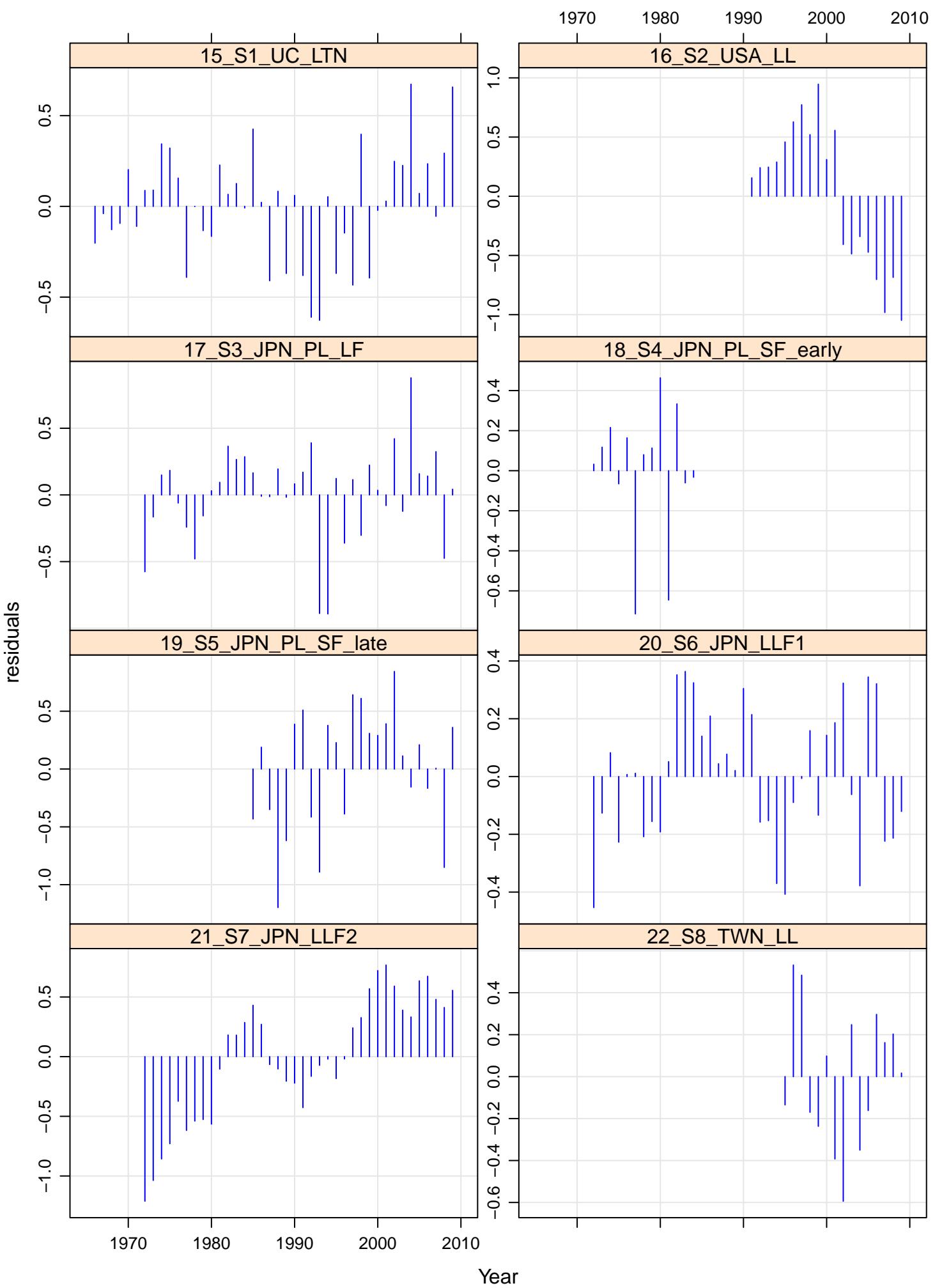
### -logLikelihood with logS



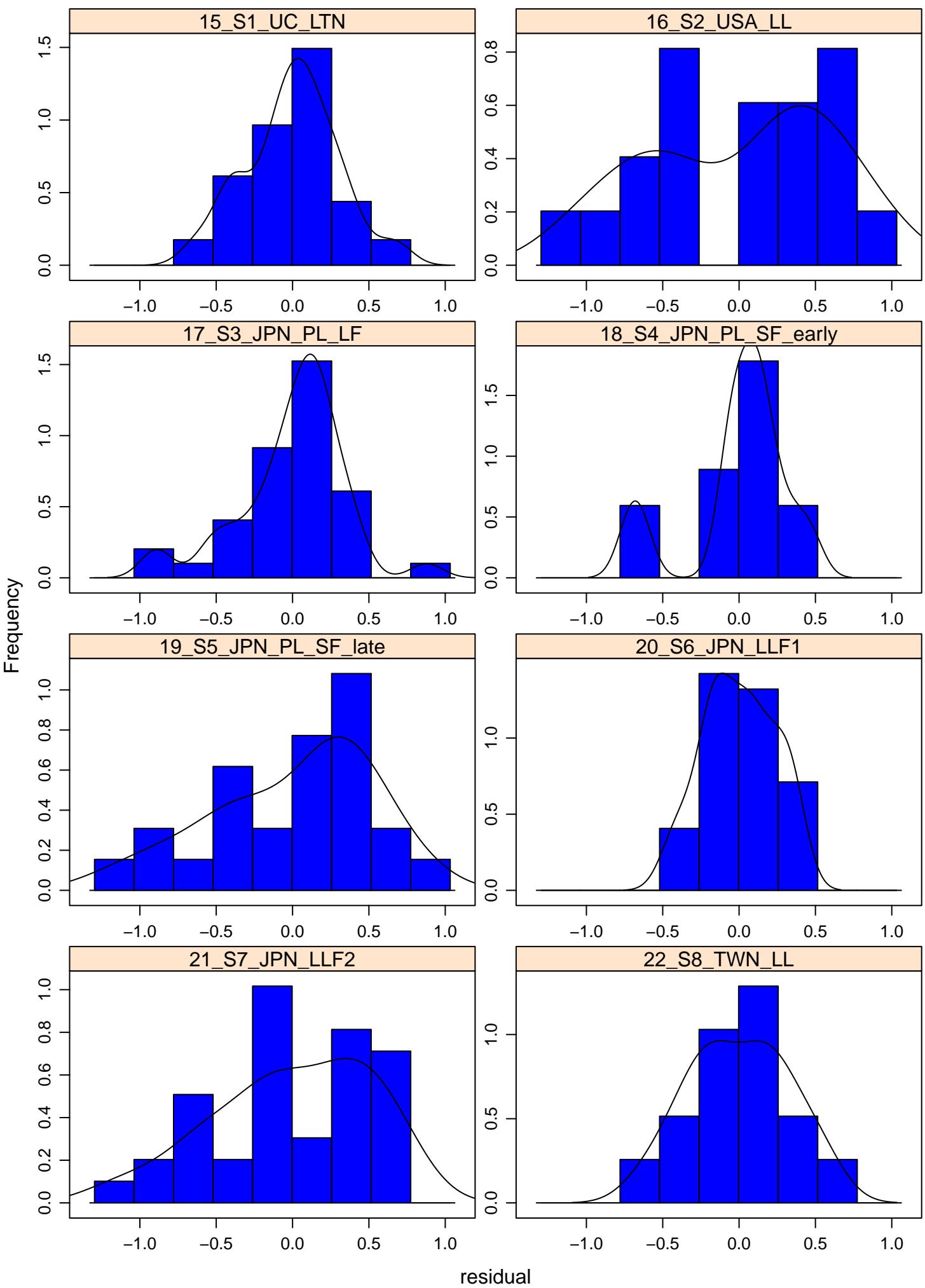
### -logLikelihood without logS



### residuals by year

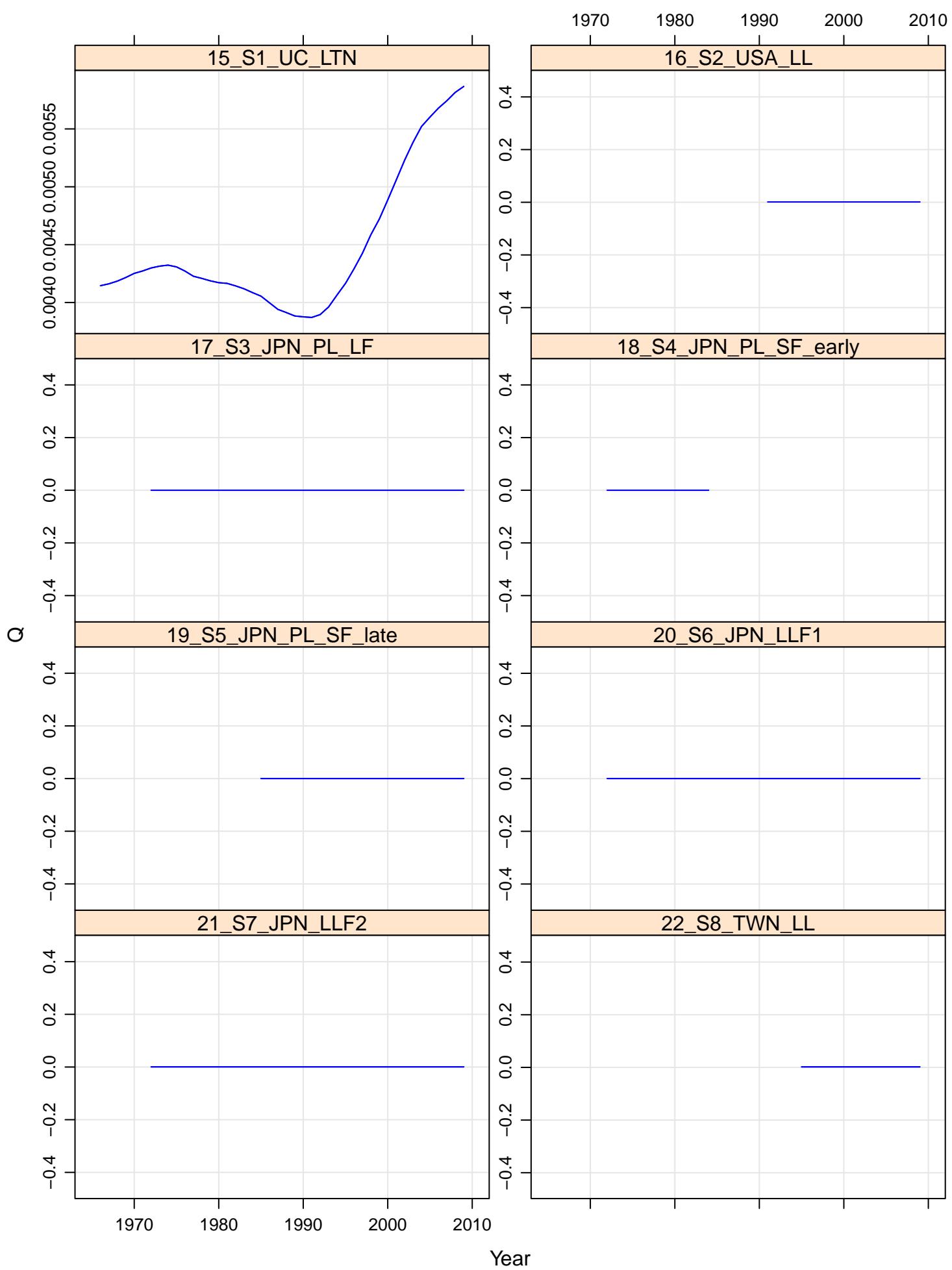


### residuals density



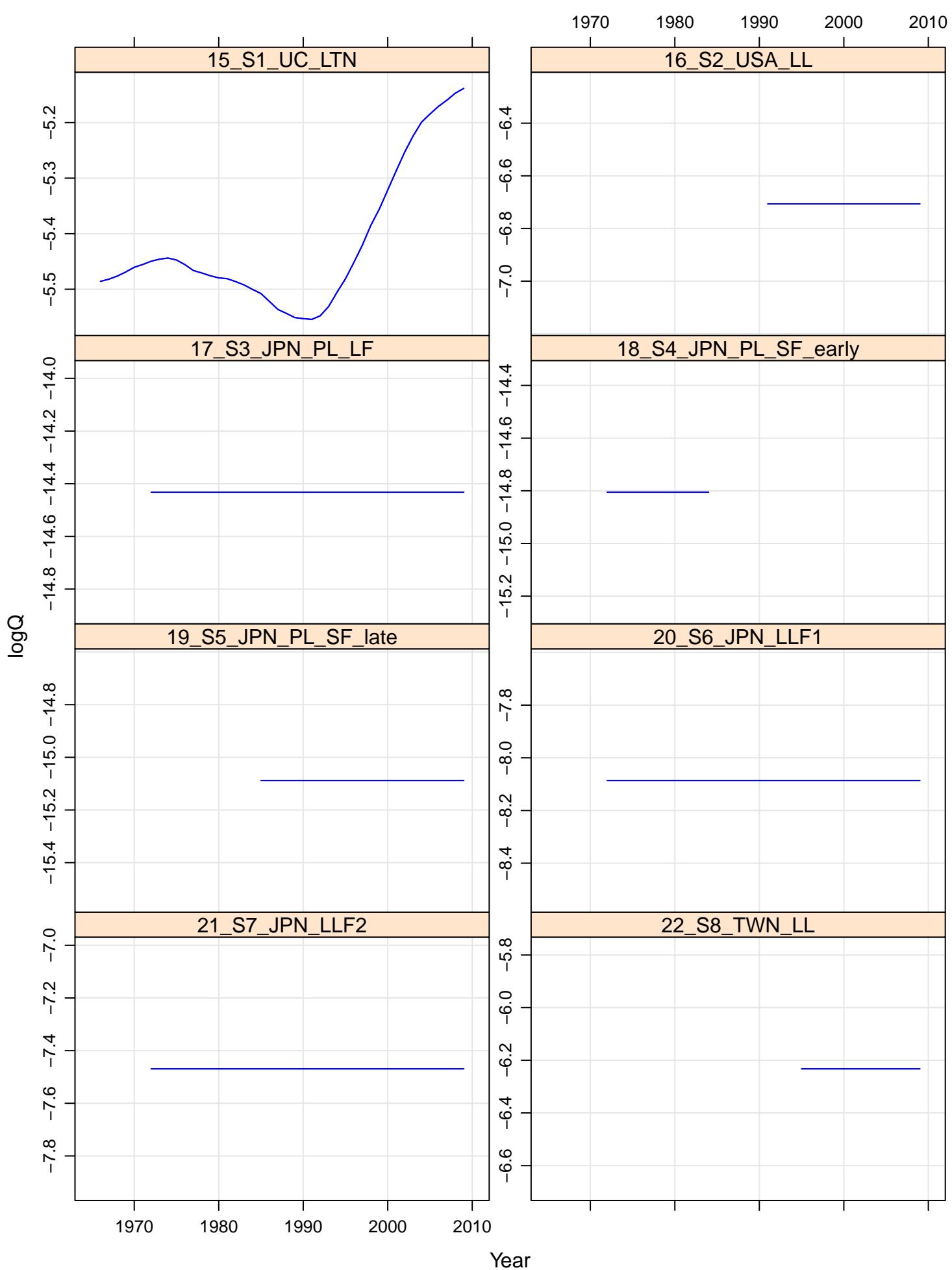
### Calc\_Q and Eff\_Q by year

Calc\_Q  
Eff\_Q

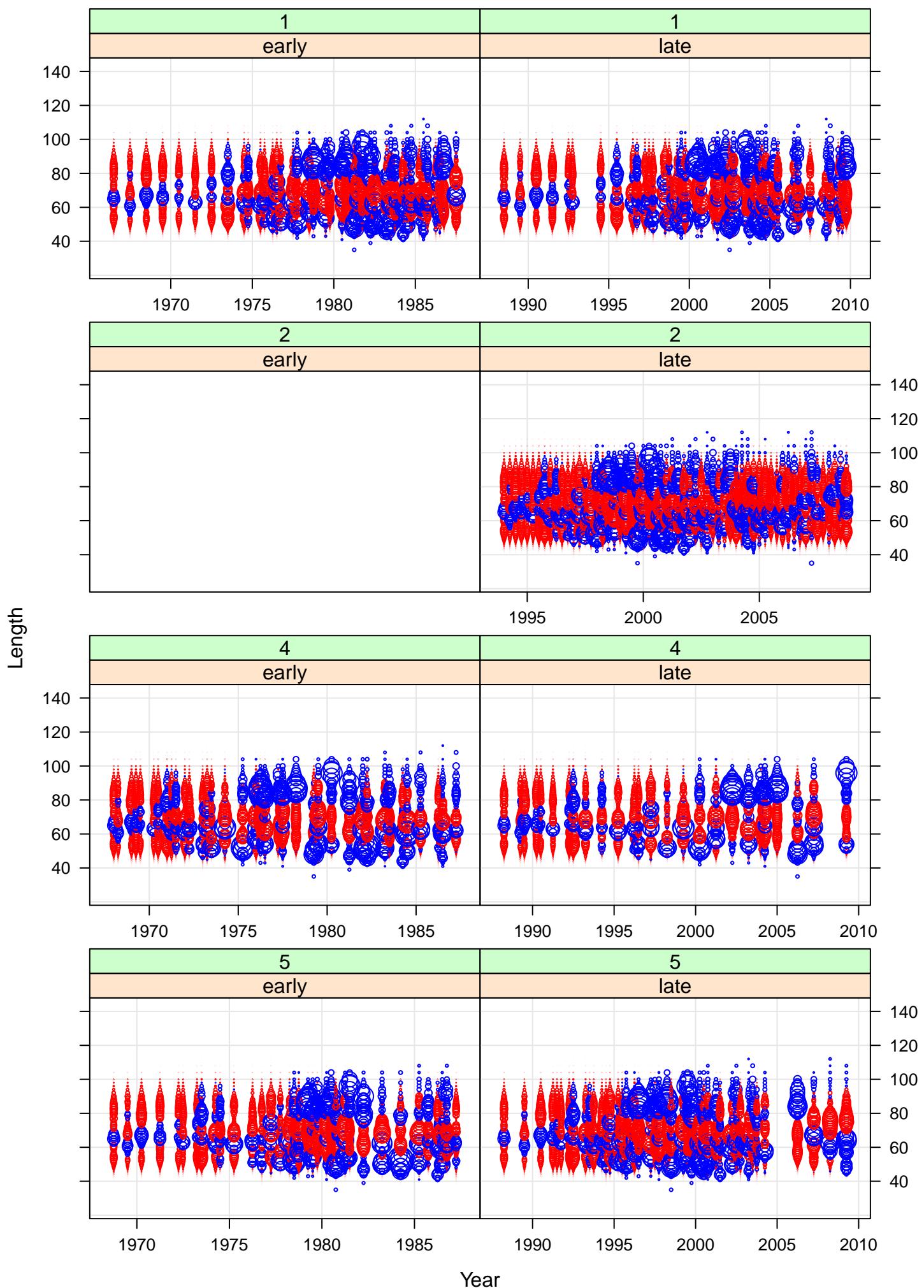


## logCalc\_Q and logEff\_Q by year

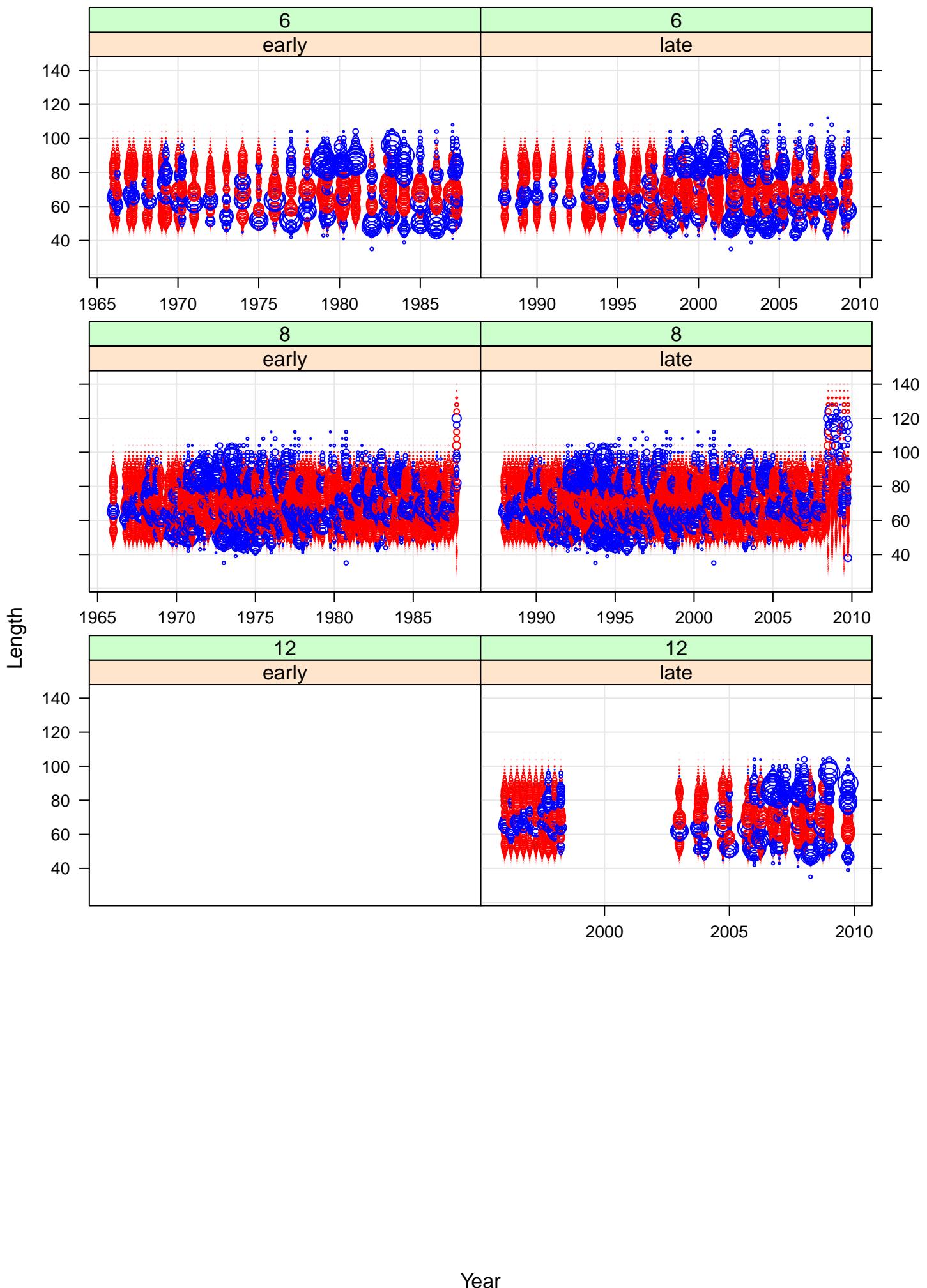
logCalc\_Q   ○  
logEff\_Q   ○



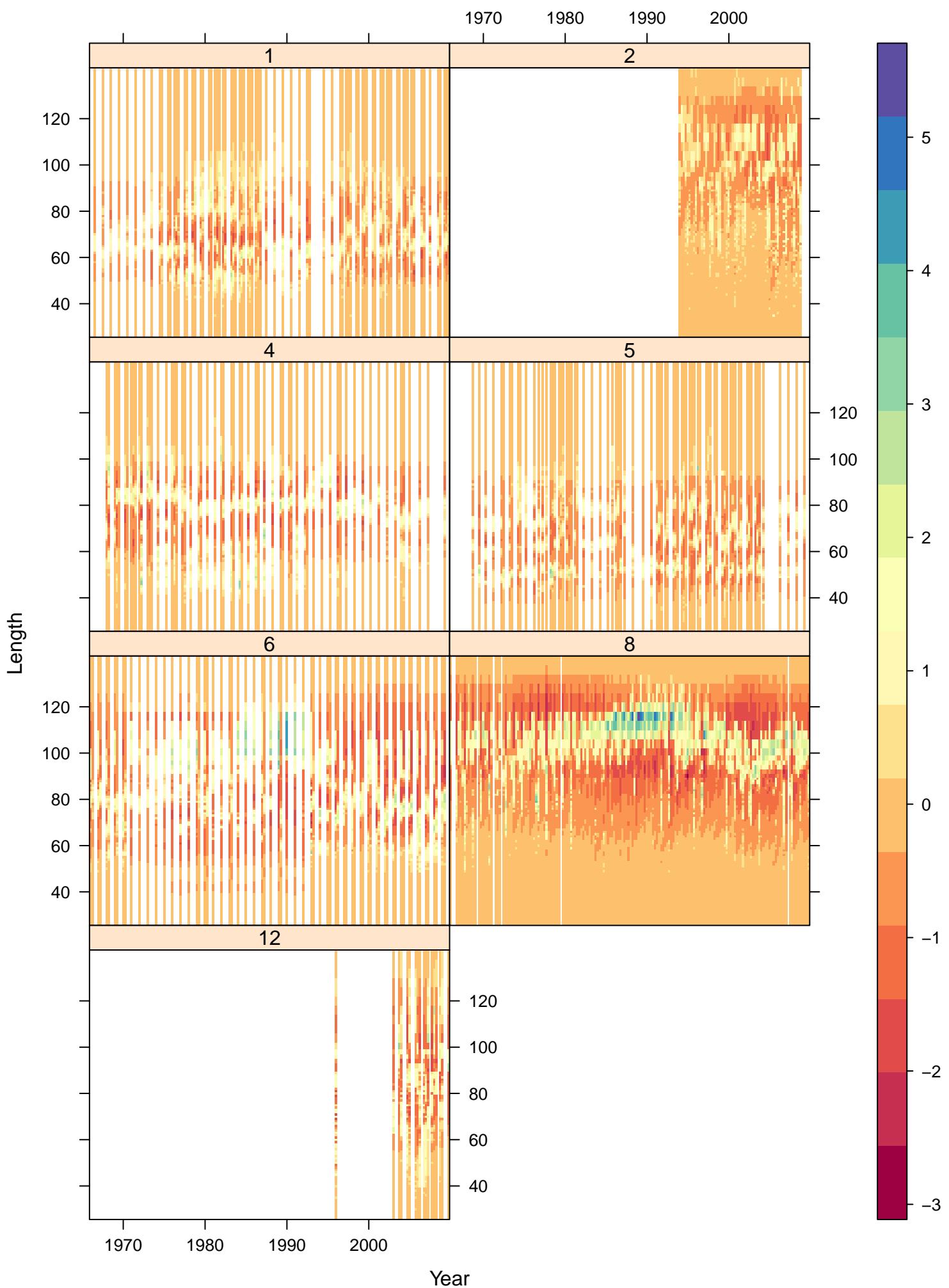
### Length fit

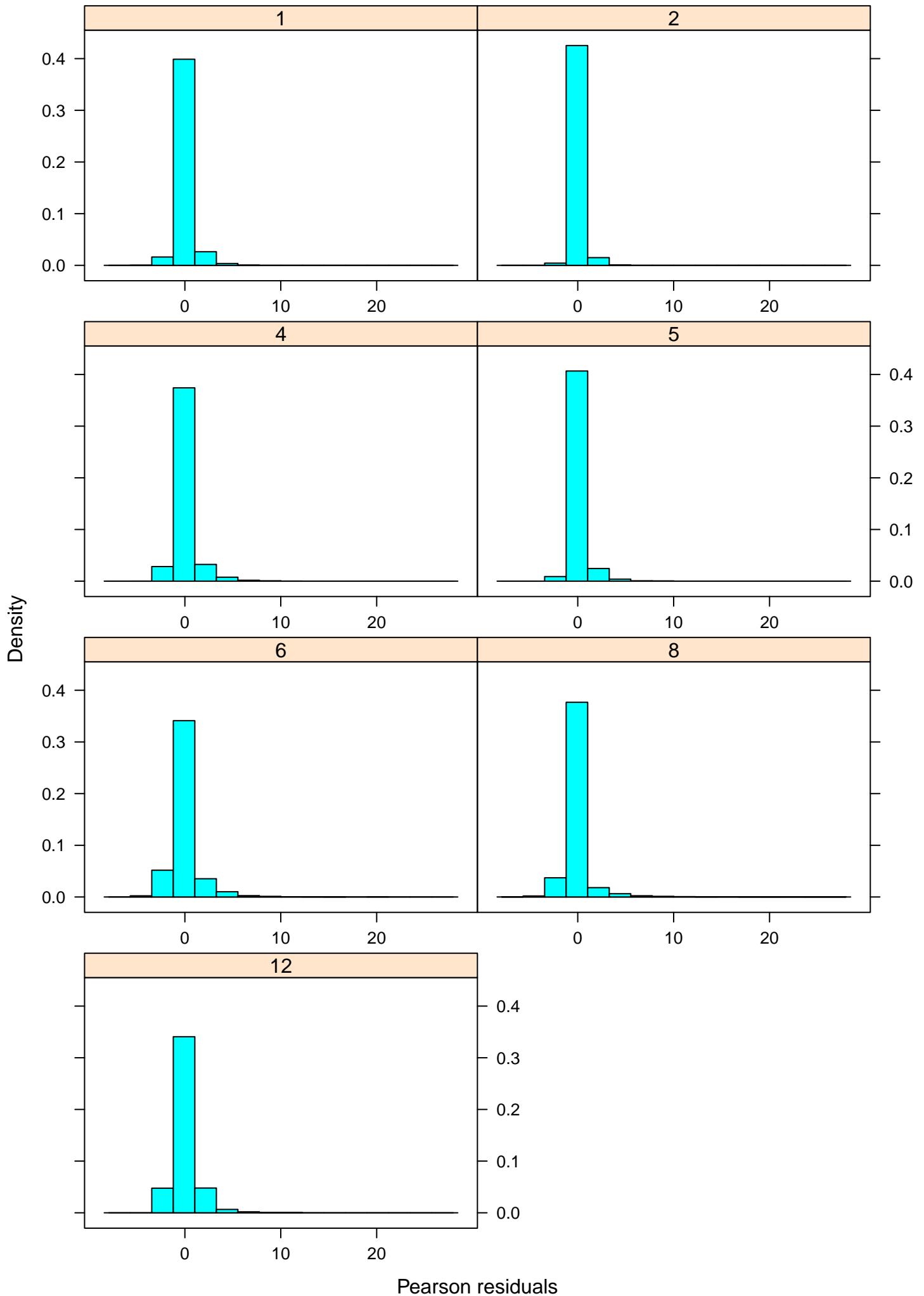


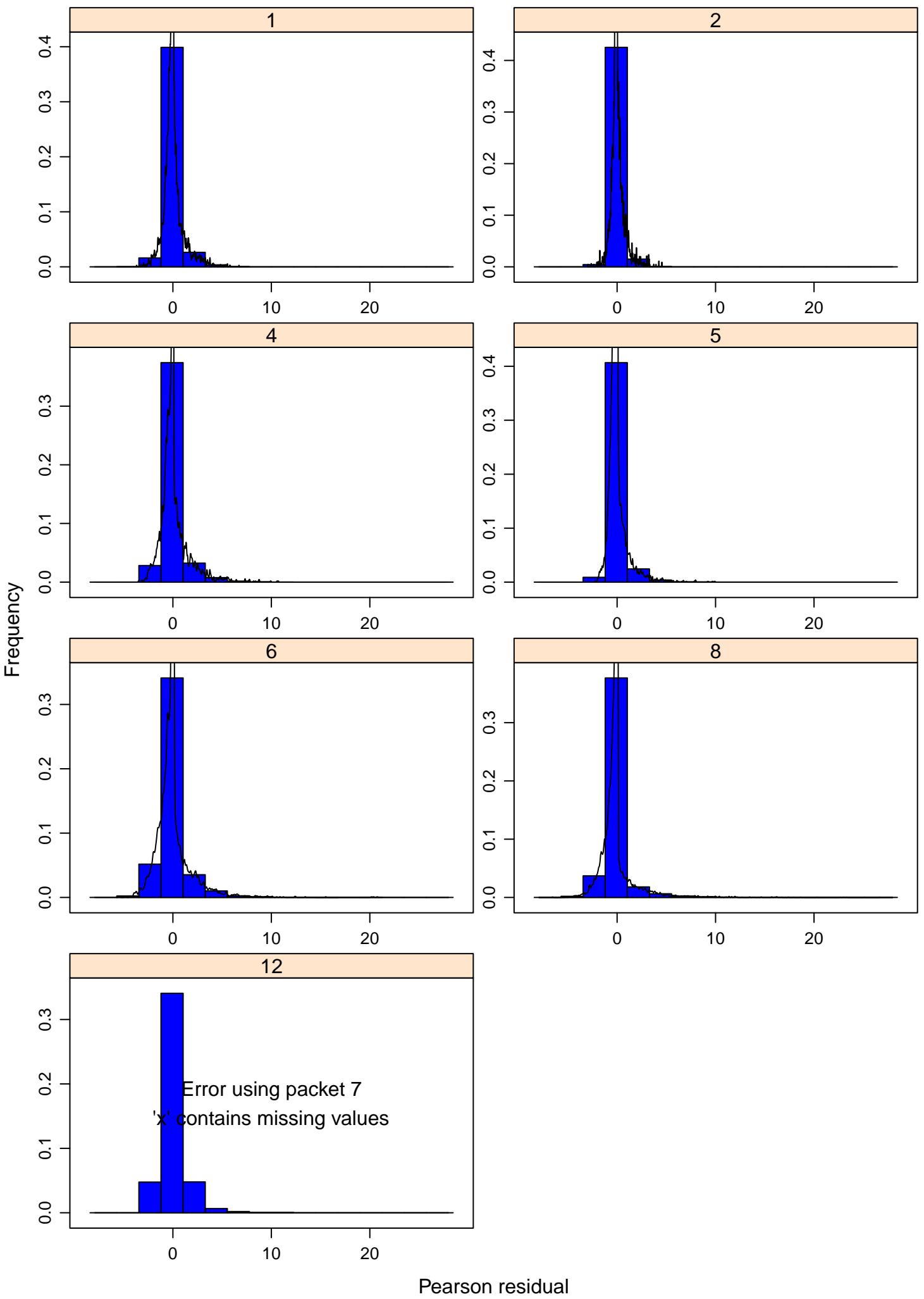
### Length fit



### Length fit

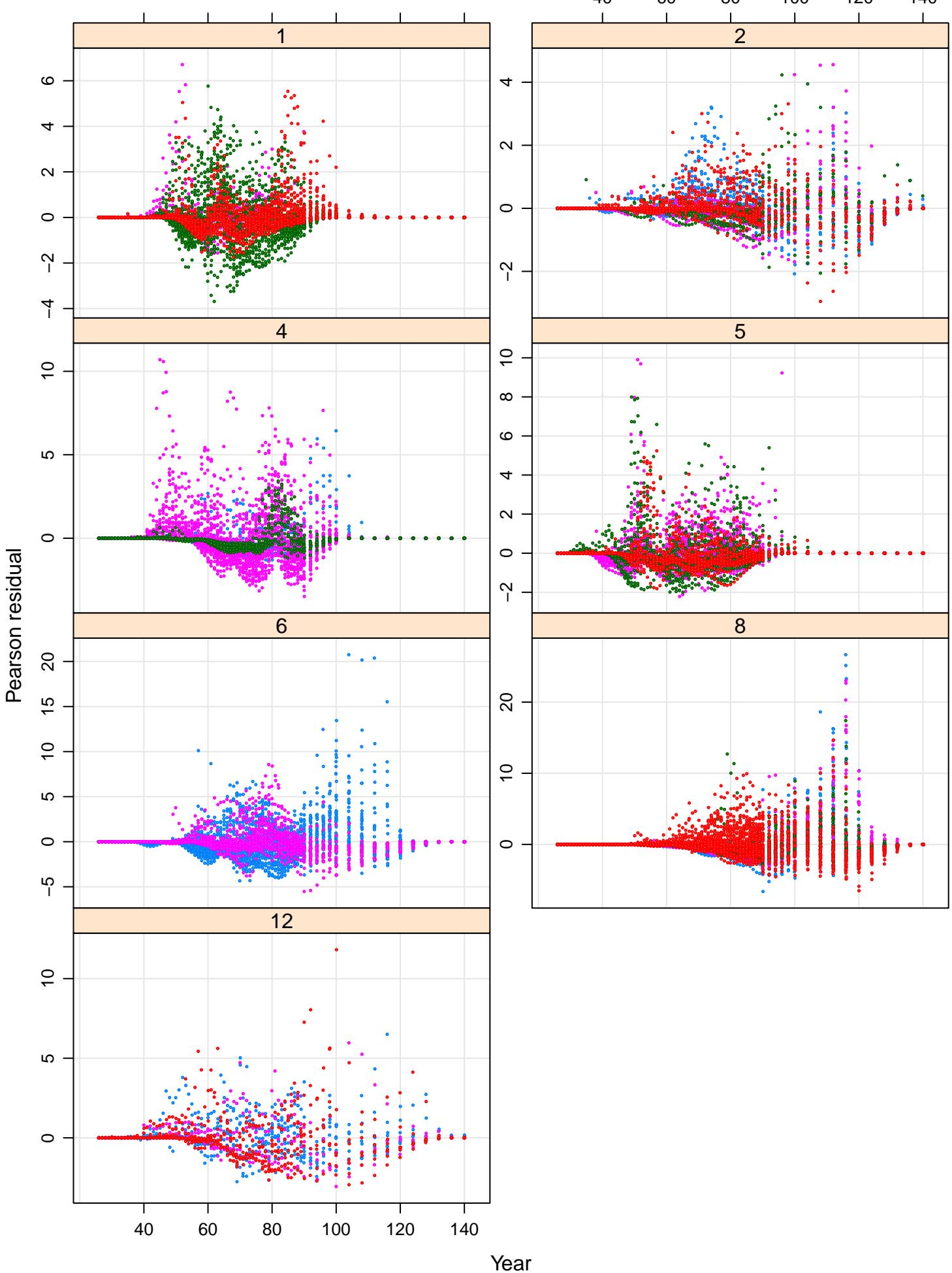






### Pearson residuals by Bin

1 ○ 2 ○ 3 ○ 4 ○



### Pearson residuals by Year

1 ○ 2 ○ 3 ○ 4 ○

