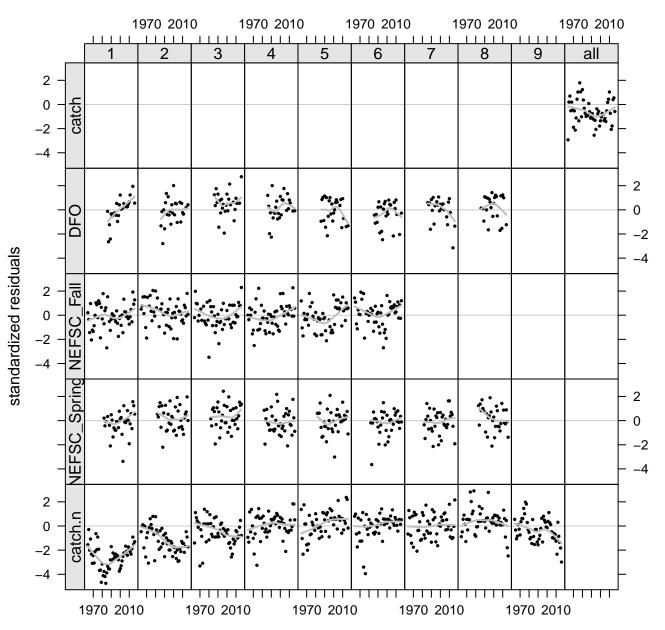
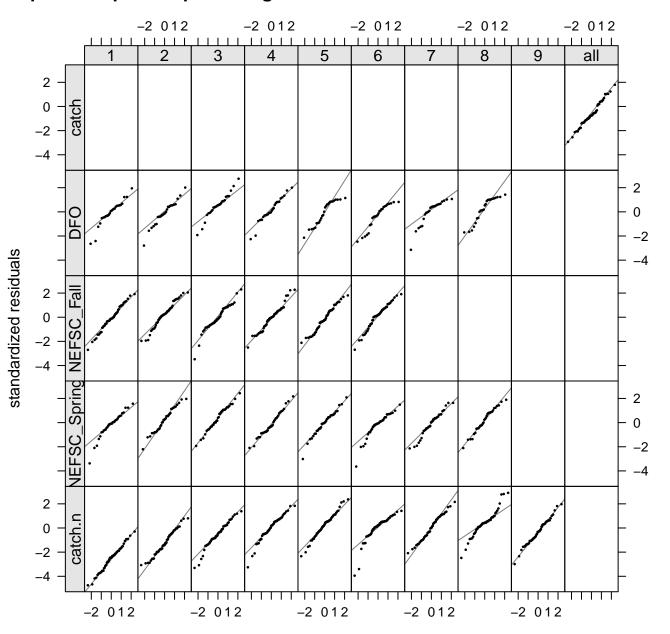
### log residuals of catch and abundance indices by age



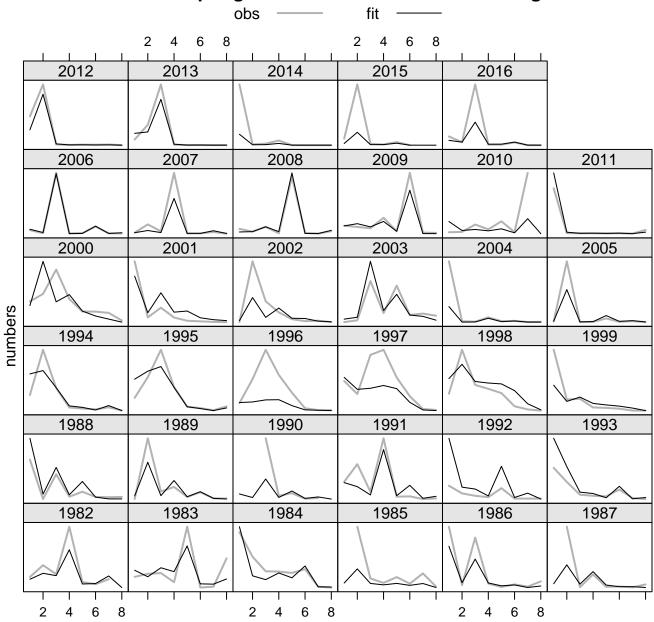
## quantile-quantile plot of log residuals of catch and abundance indices



#### fitted and observed catch-at-age obs fit 2 4 6 8 2 4 6 8 numbers 2 4 6 8 2 4 6 8 4 6 8 2 4 6 8

age

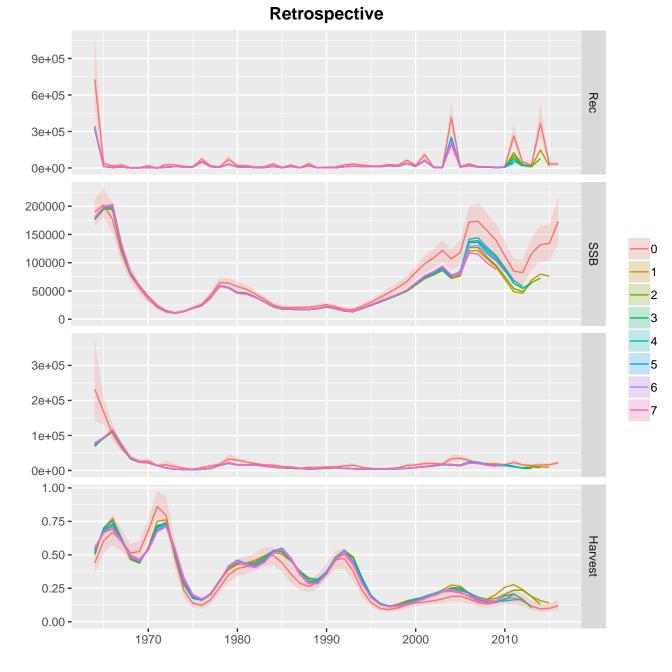
### NEFSC\_Spring: fitted and observed index-at-age



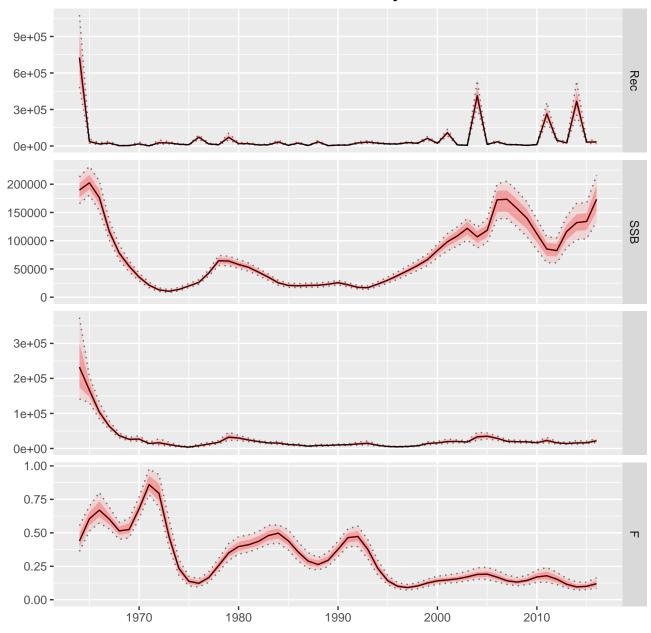
#### NEFSC\_Fall: fitted and observed index-at-age obs fit 1 2 3 4 5 6 1 2 3 4 5 6 numbers 1 2 3 4 5 6

DFO: fitted and observed index-at-age

obs fit numbers 



Stock summary



# **Abundance indices predictions**

