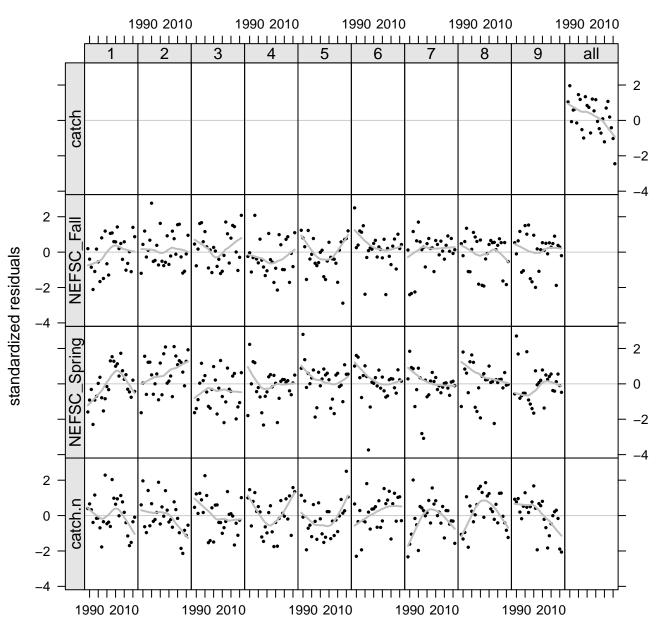
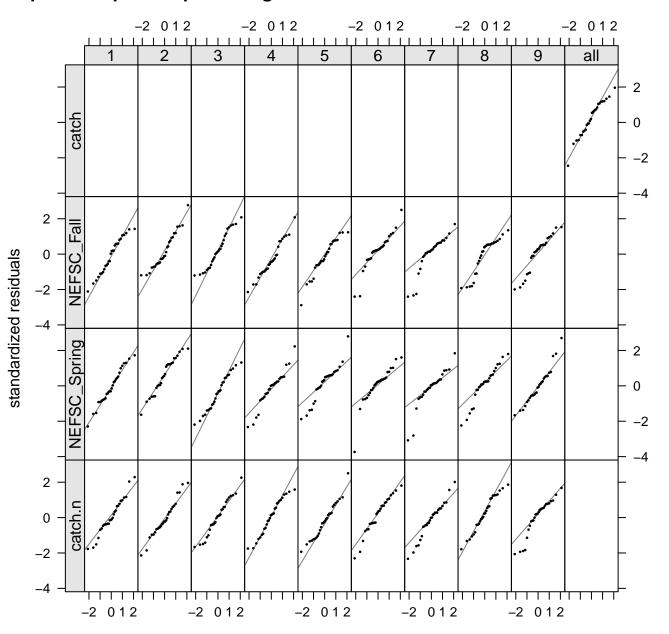
# log residuals of catch and abundance indices by age



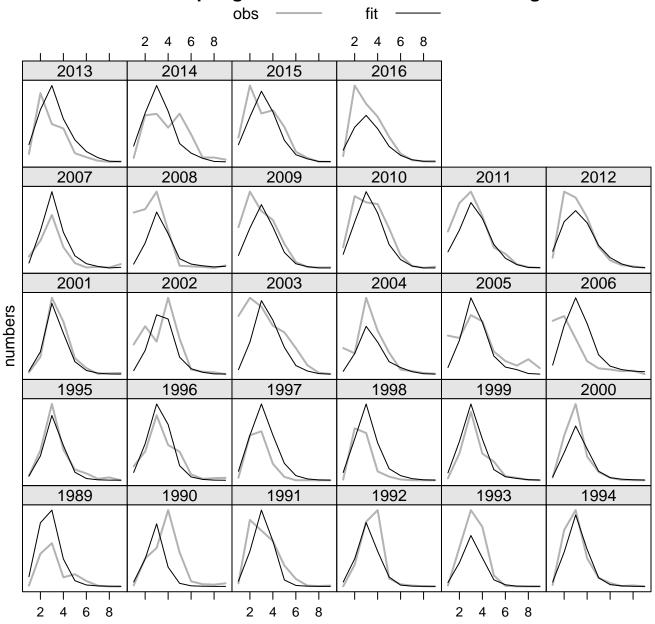
# quantile-quantile plot of log residuals of catch and abundance indices



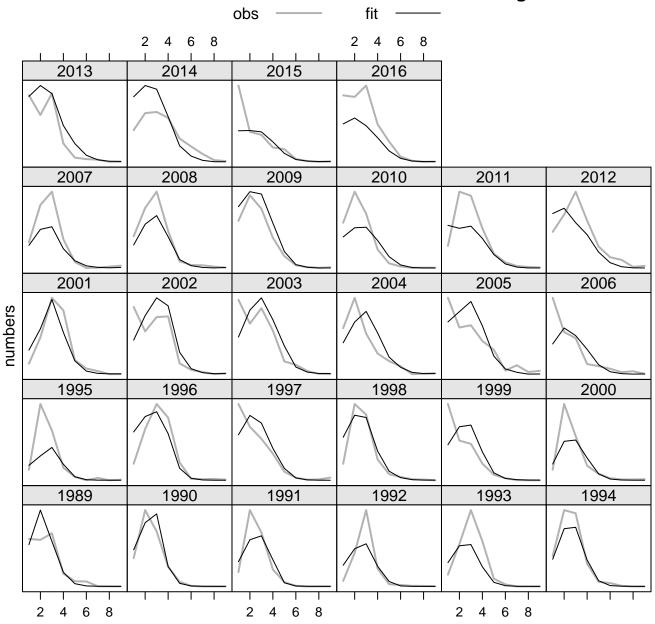
#### fitted and observed catch-at-age obs fit numbers

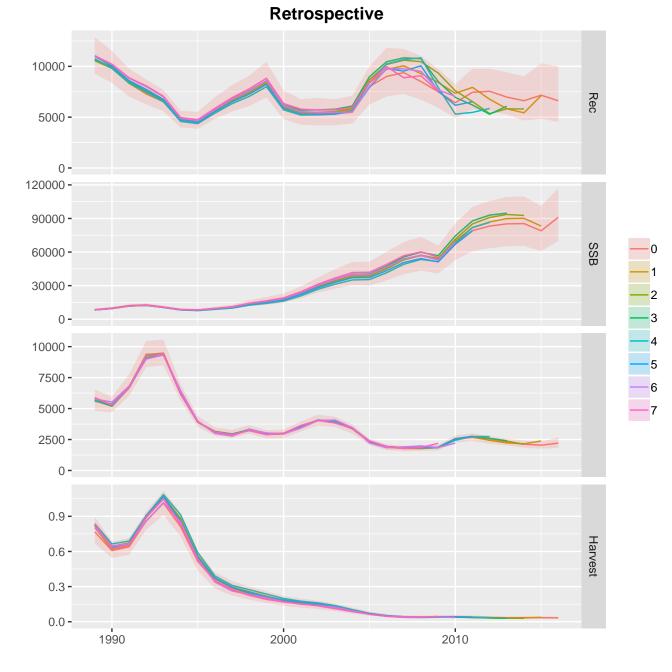
age

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



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





Stock summary 10000 -5000 -0 -120000 -90000 -SSB 60000 -30000 -0 -10000 -7500 -5000 -2500 **-**0 -0.9 -0.6 -0.3 -0.0 -

2000

1990

2010

# **Abundance indices predictions**

