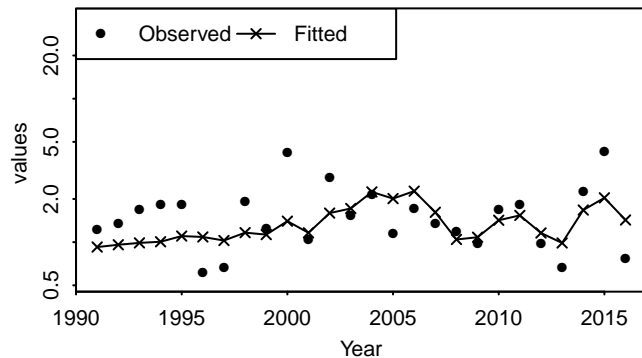
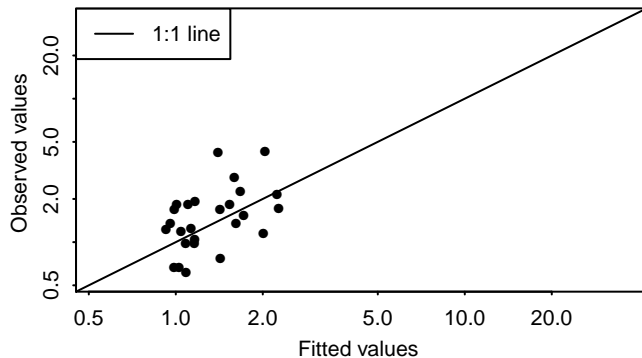


# Turbot in IV Diagnostics – BTS–ISIS, age 1

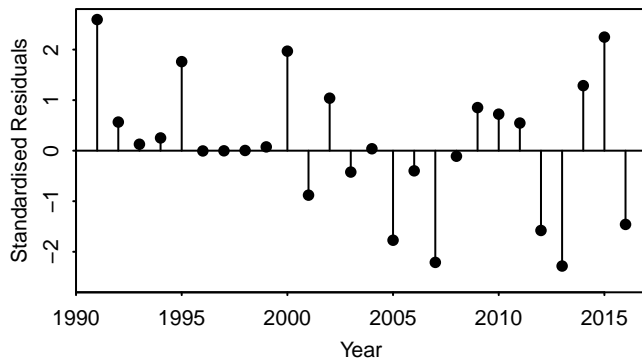
a) Observed and fitted values time series



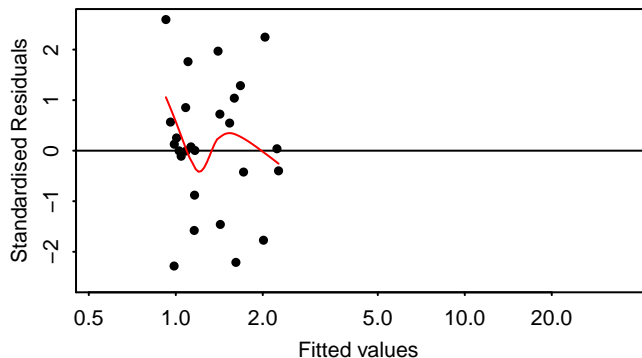
b) Observed vs fitted values



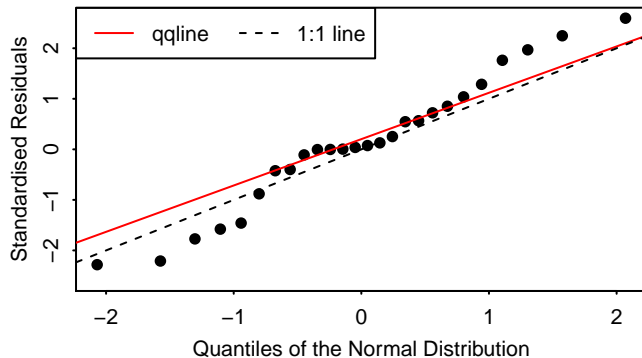
c) Standardised residuals over time



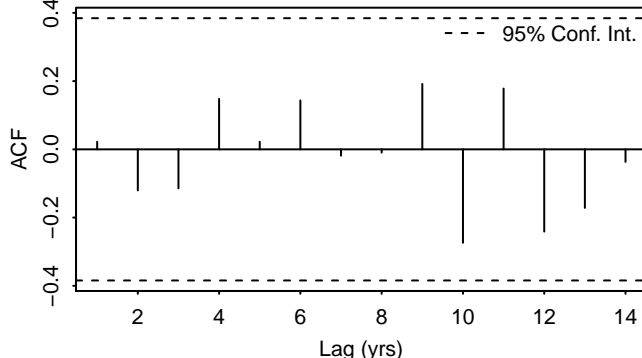
d) Tukey–Anscombe plot



e) Normal Q–Q plot

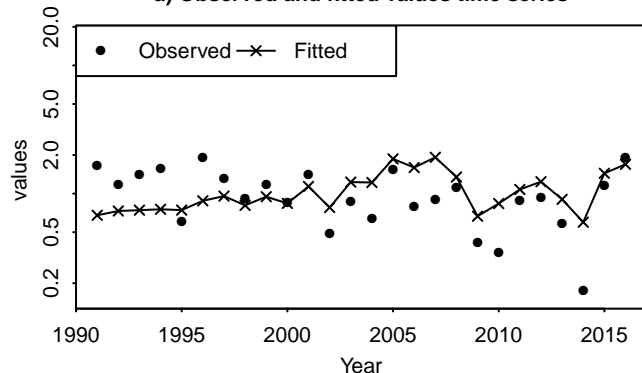


f) Autocorrelation of Residuals

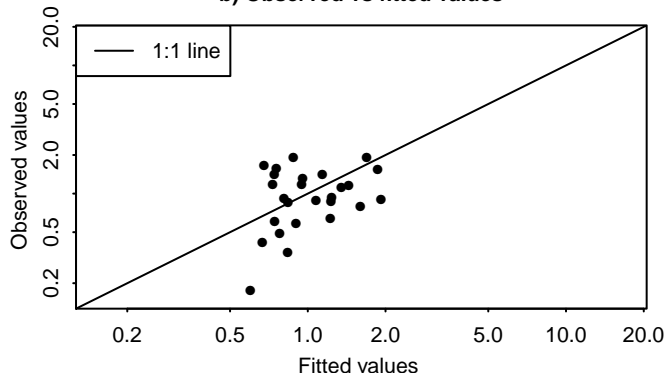


# Turbot in IV Diagnostics – BTS–ISIS, age 2

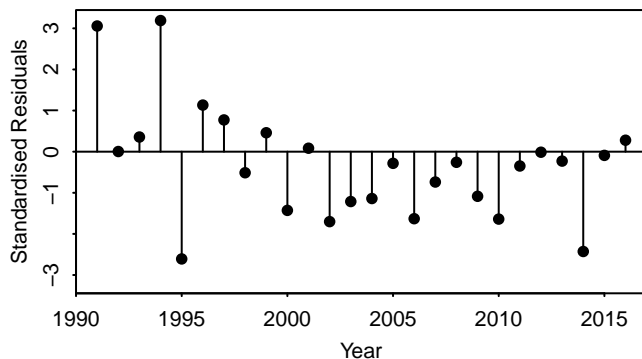
a) Observed and fitted values time series



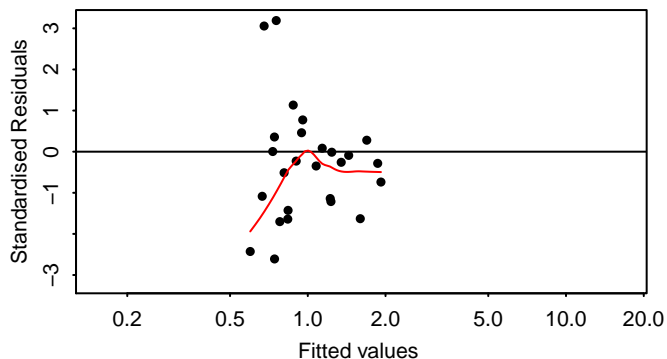
b) Observed vs fitted values



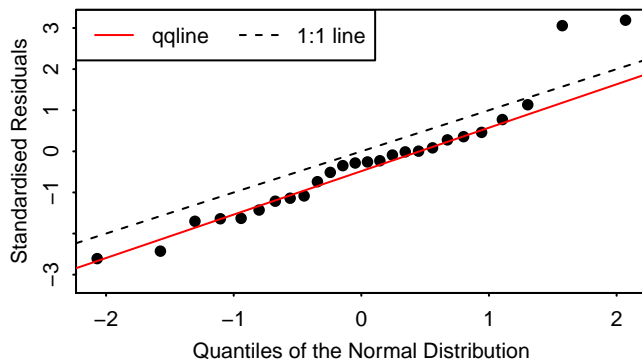
c) Standardised residuals over time



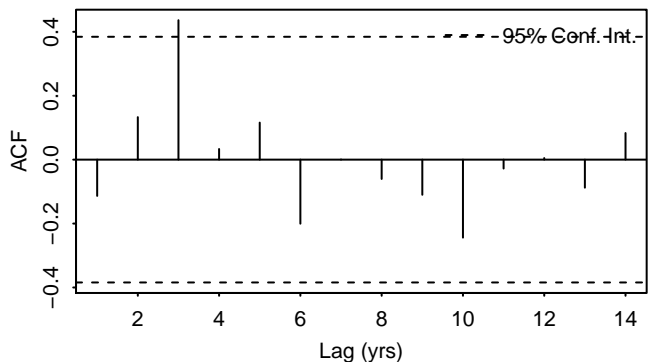
d) Tukey–Anscombe plot



e) Normal Q–Q plot

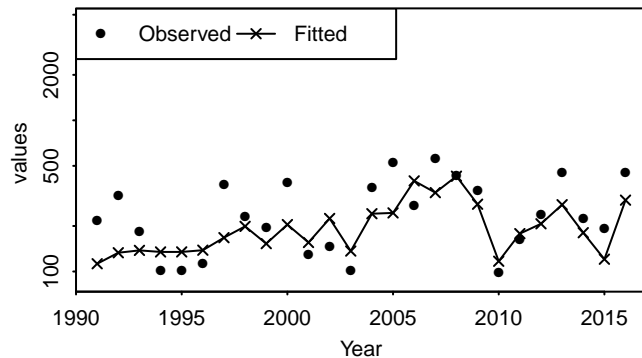


f) Autocorrelation of Residuals

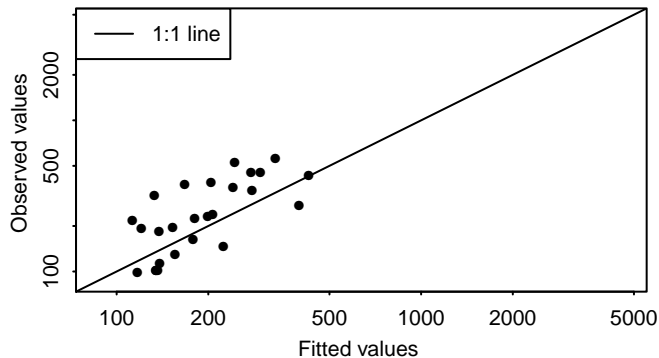


# Turbot in IV Diagnostics – BTS–ISIS, age 3

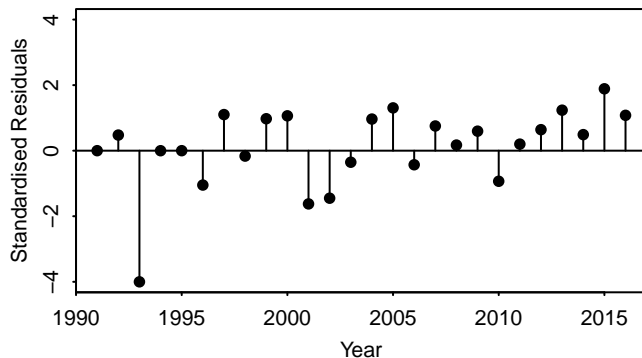
a) Observed and fitted values time series



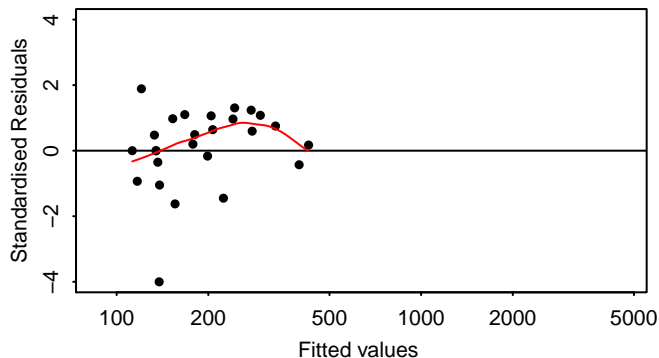
b) Observed vs fitted values



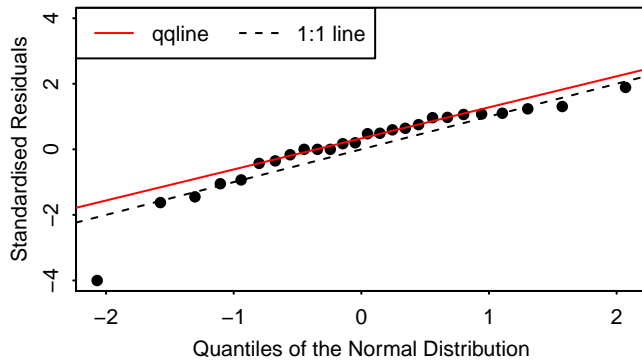
c) Standardised residuals over time



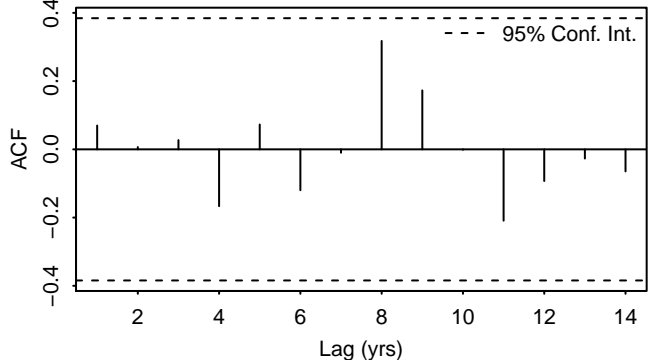
d) Tukey–Anscombe plot



e) Normal Q–Q plot

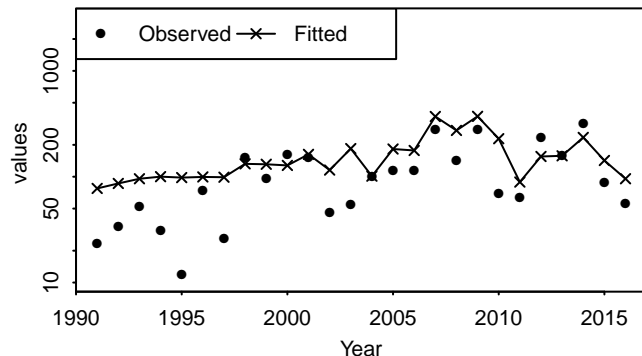


f) Autocorrelation of Residuals

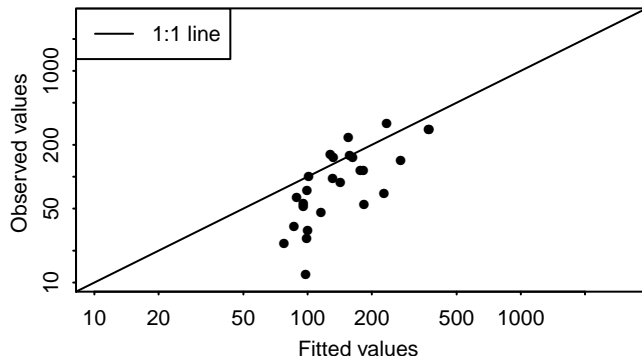


# Turbot in IV Diagnostics – BTS–ISIS, age 4

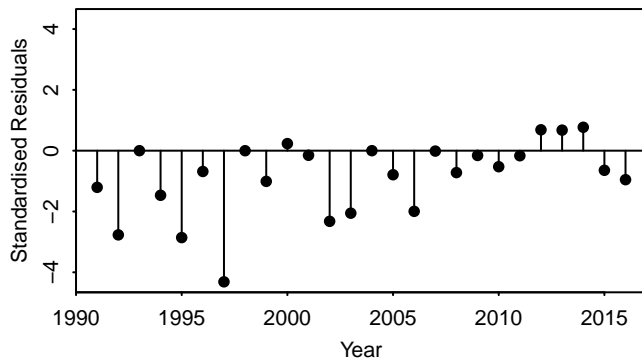
a) Observed and fitted values time series



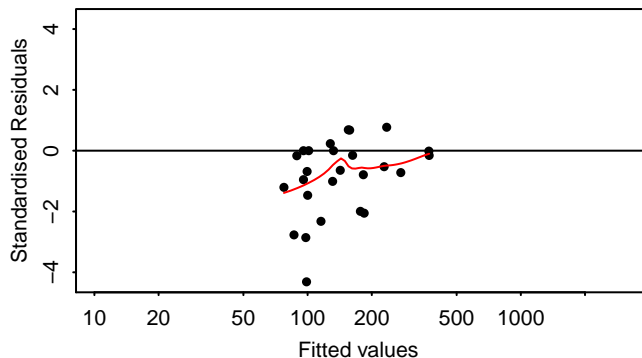
b) Observed vs fitted values



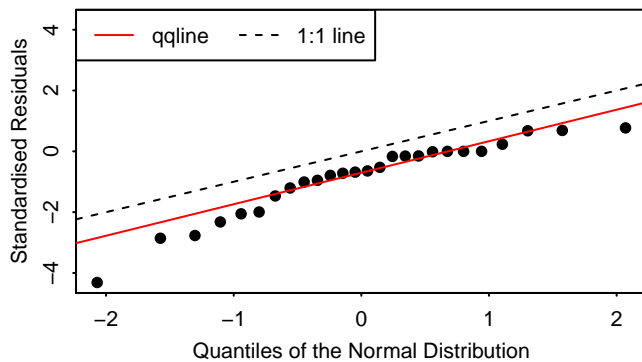
c) Standardised residuals over time



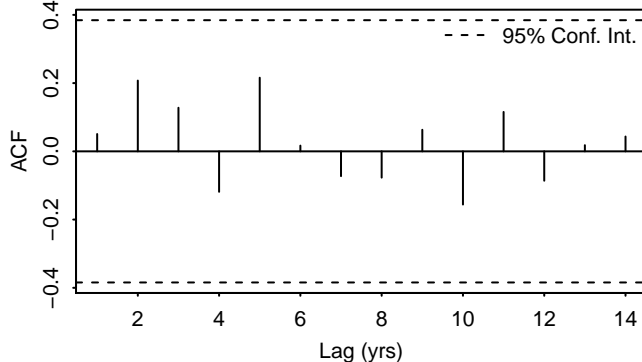
d) Tukey–Anscombe plot



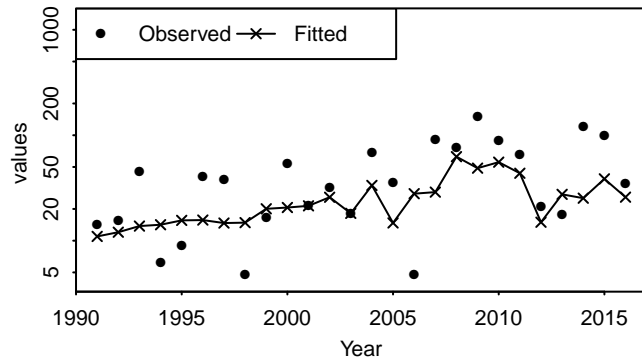
e) Normal Q–Q plot



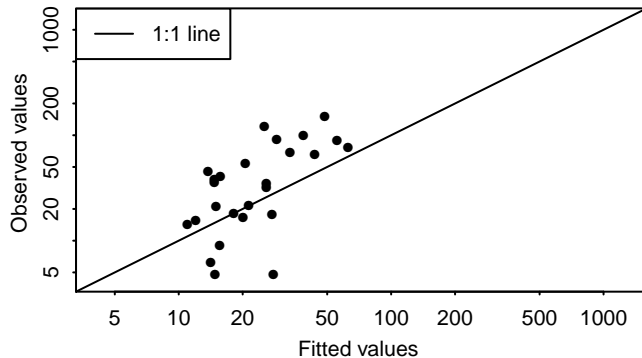
f) Autocorrelation of Residuals



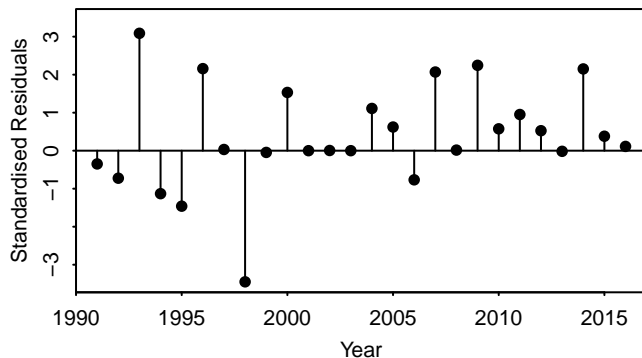
a) Observed and fitted values time series



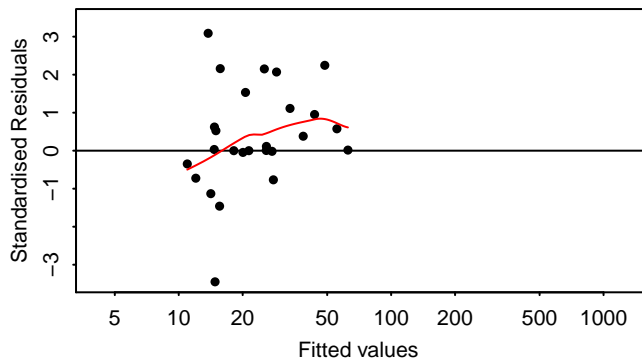
b) Observed vs fitted values



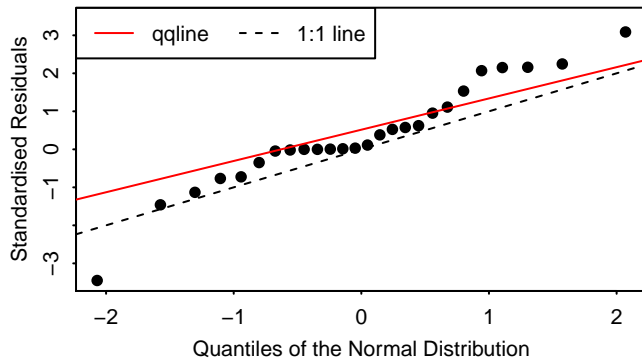
c) Standardised residuals over time



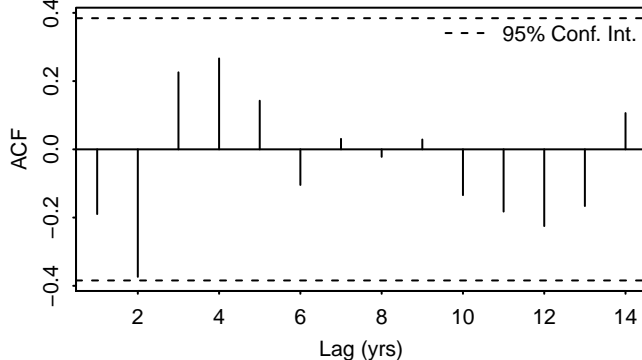
d) Tukey–Anscombe plot



e) Normal Q–Q plot

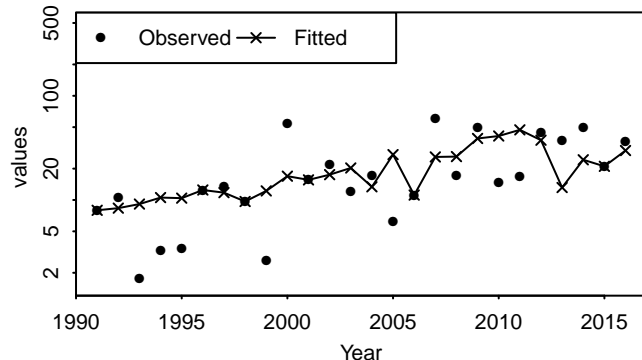


f) Autocorrelation of Residuals

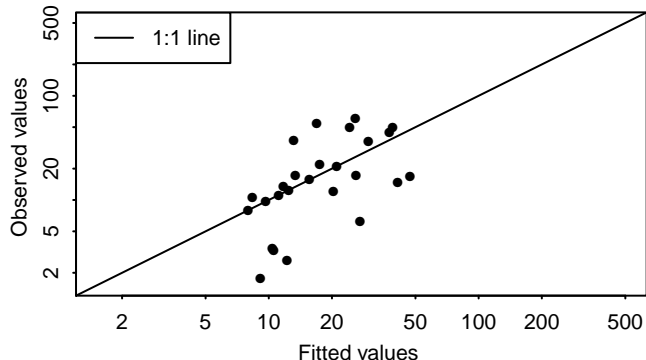


# Turbot in IV Diagnostics – BTS–ISIS, age 6

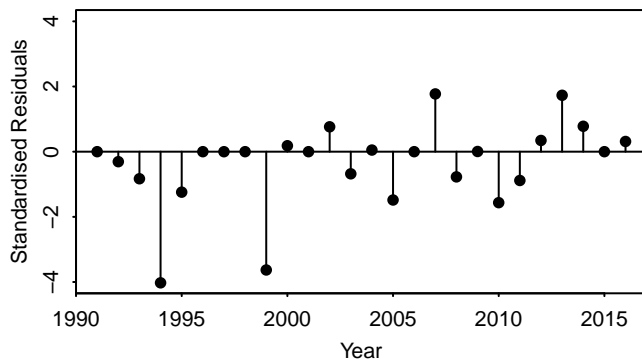
a) Observed and fitted values time series



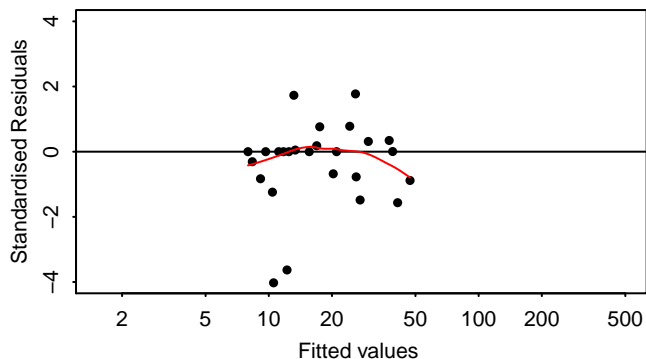
b) Observed vs fitted values



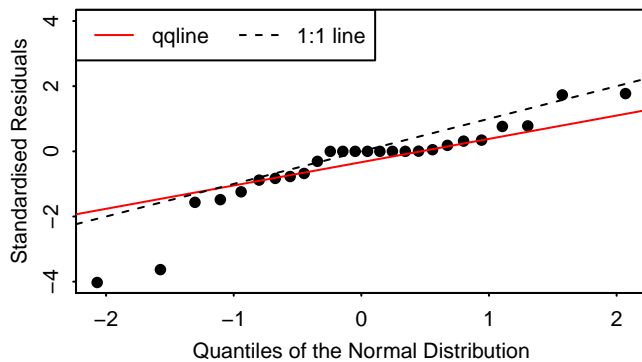
c) Standardised residuals over time



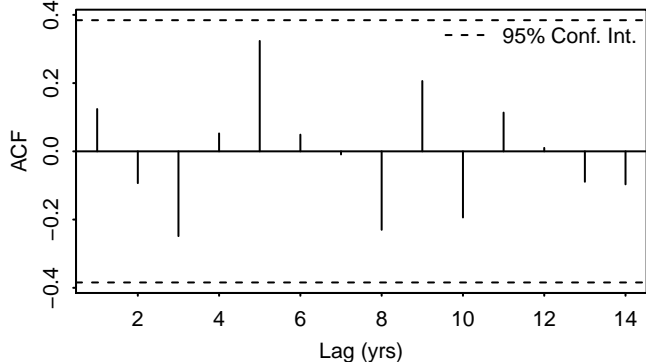
d) Tukey–Anscombe plot



e) Normal Q–Q plot

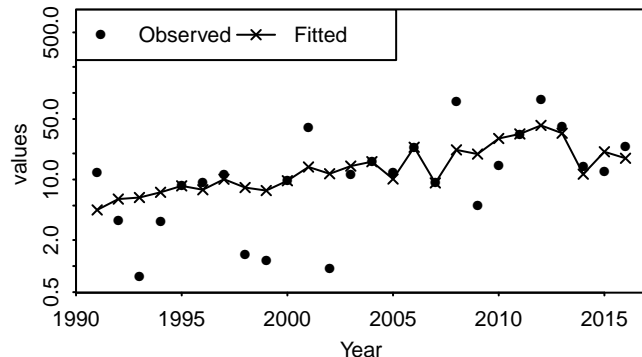


f) Autocorrelation of Residuals

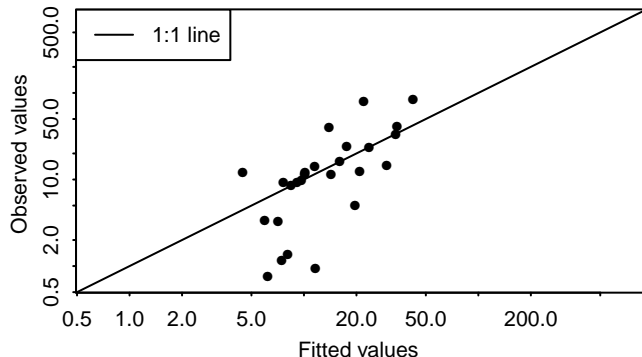


# Turbot in IV Diagnostics – BTS–ISIS, age 7

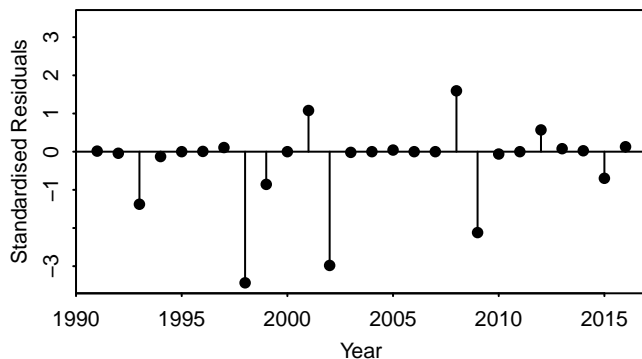
a) Observed and fitted values time series



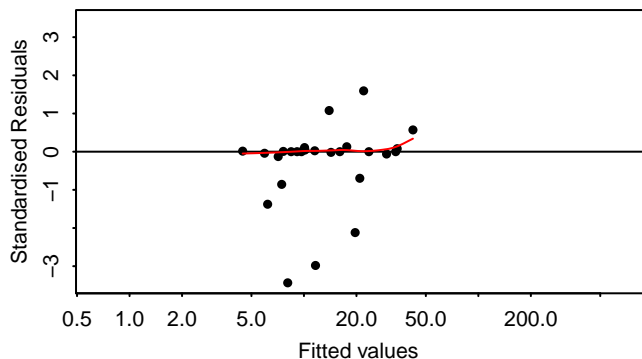
b) Observed vs fitted values



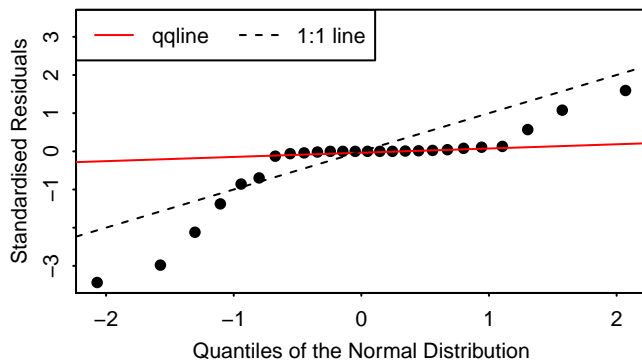
c) Standardised residuals over time



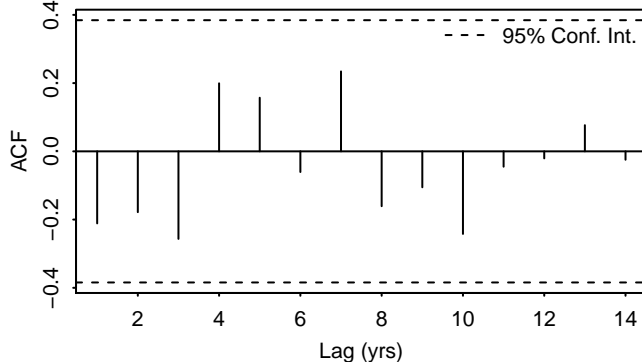
d) Tukey–Anscombe plot



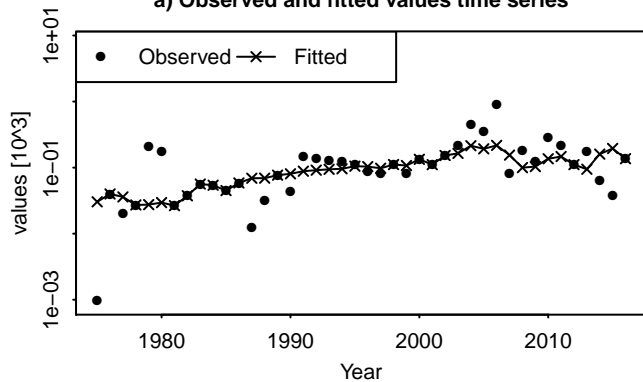
e) Normal Q–Q plot



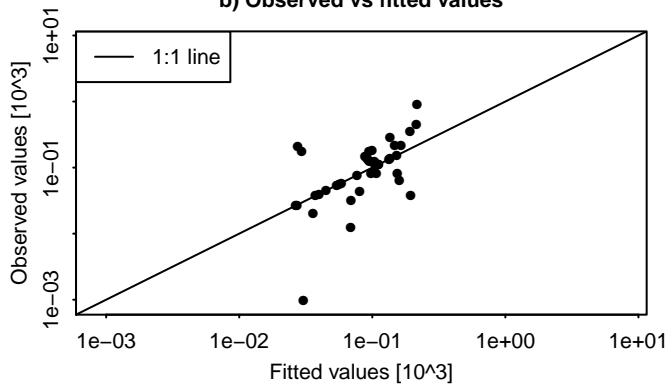
f) Autocorrelation of Residuals



**a) Observed and fitted values time series**

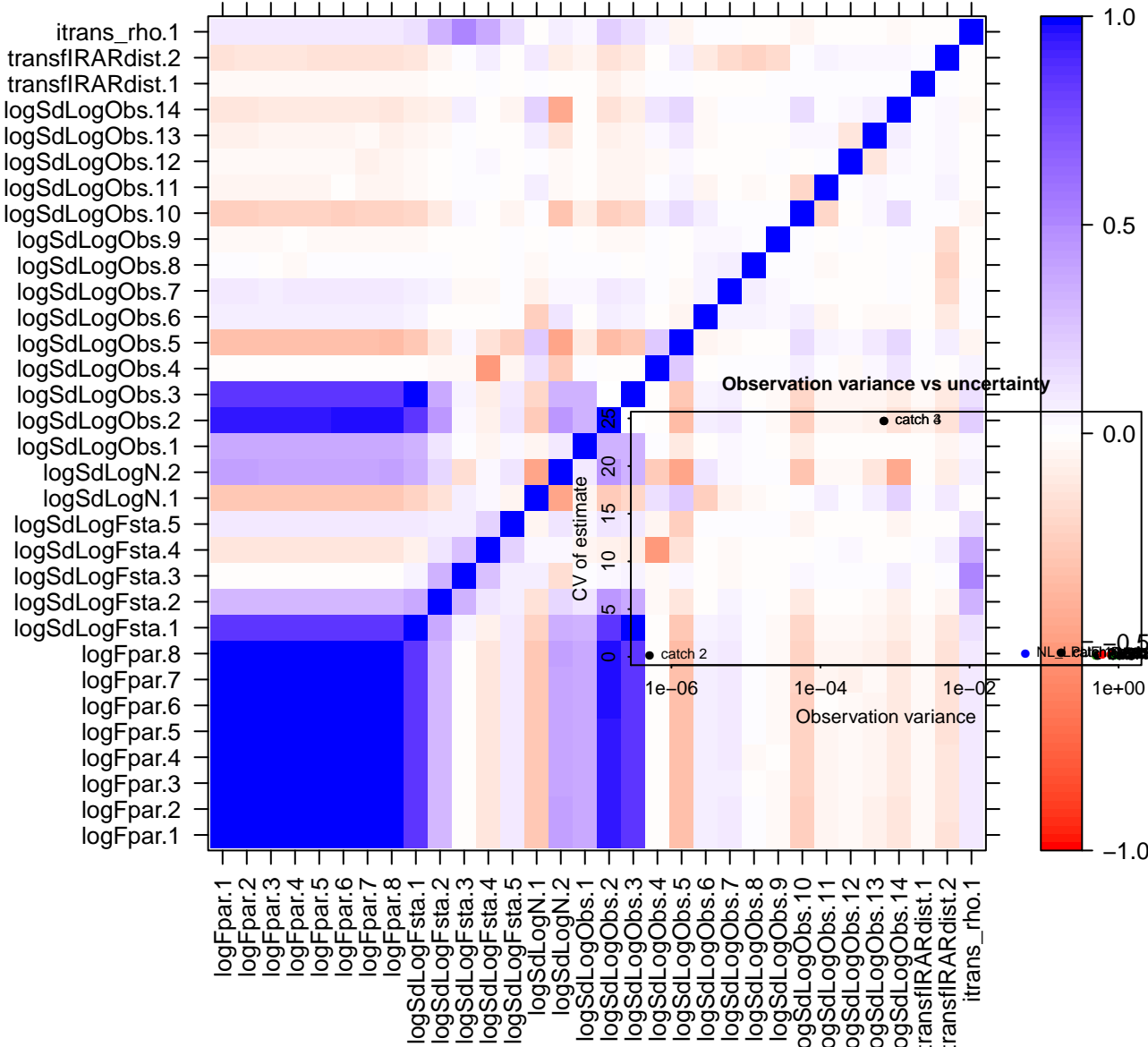


**b) Observed vs fitted values**

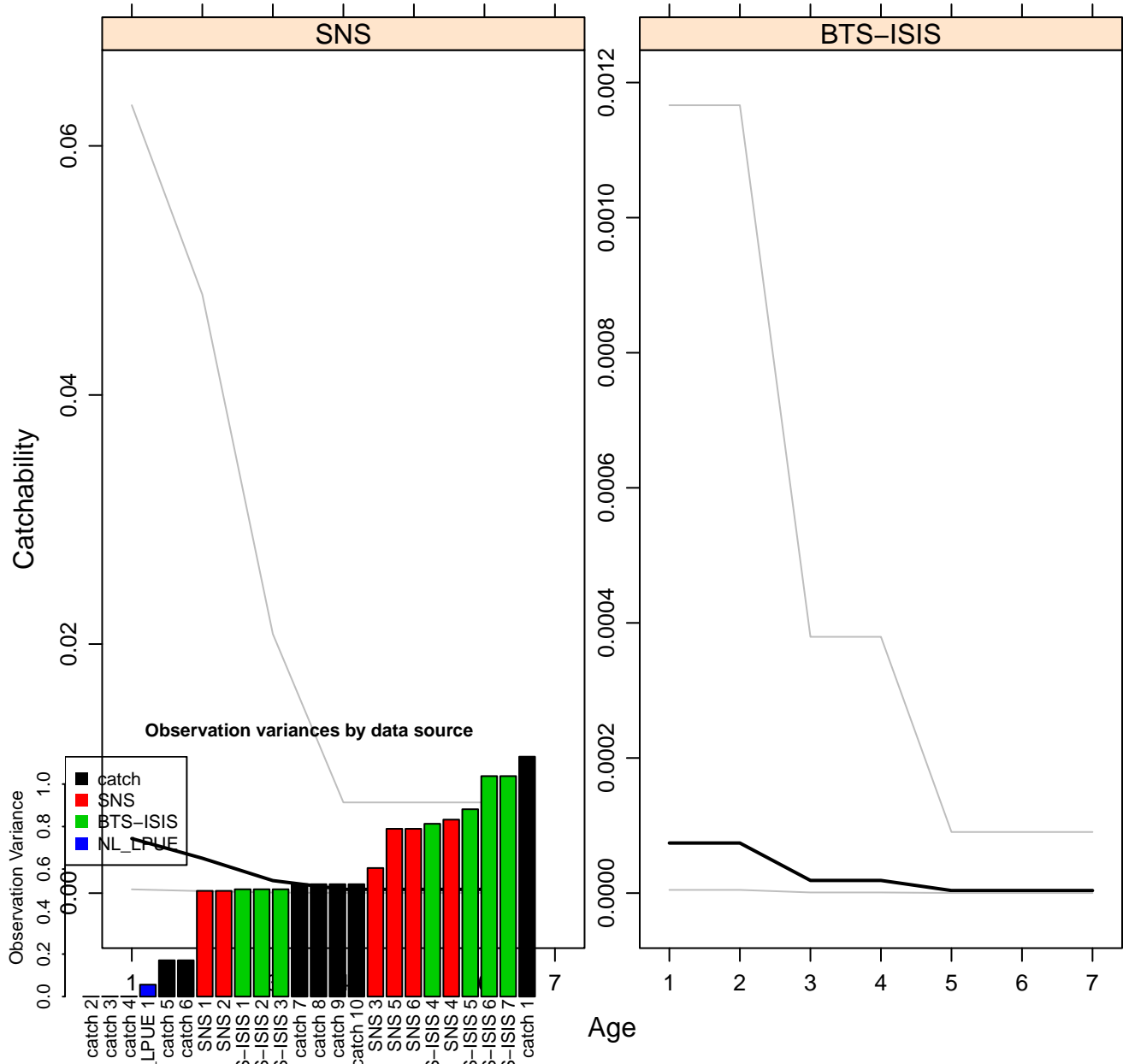




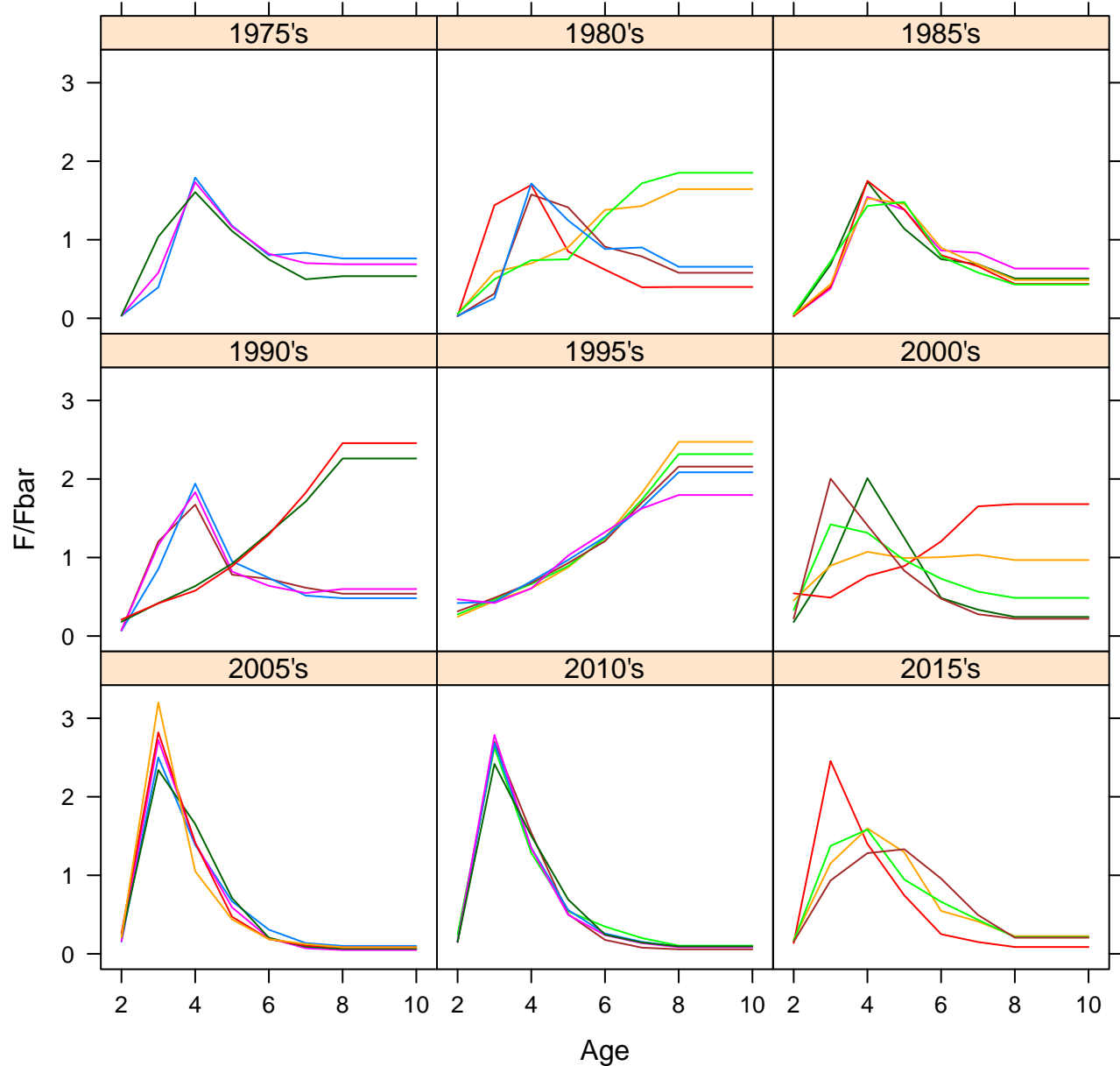
# Turbot in IV



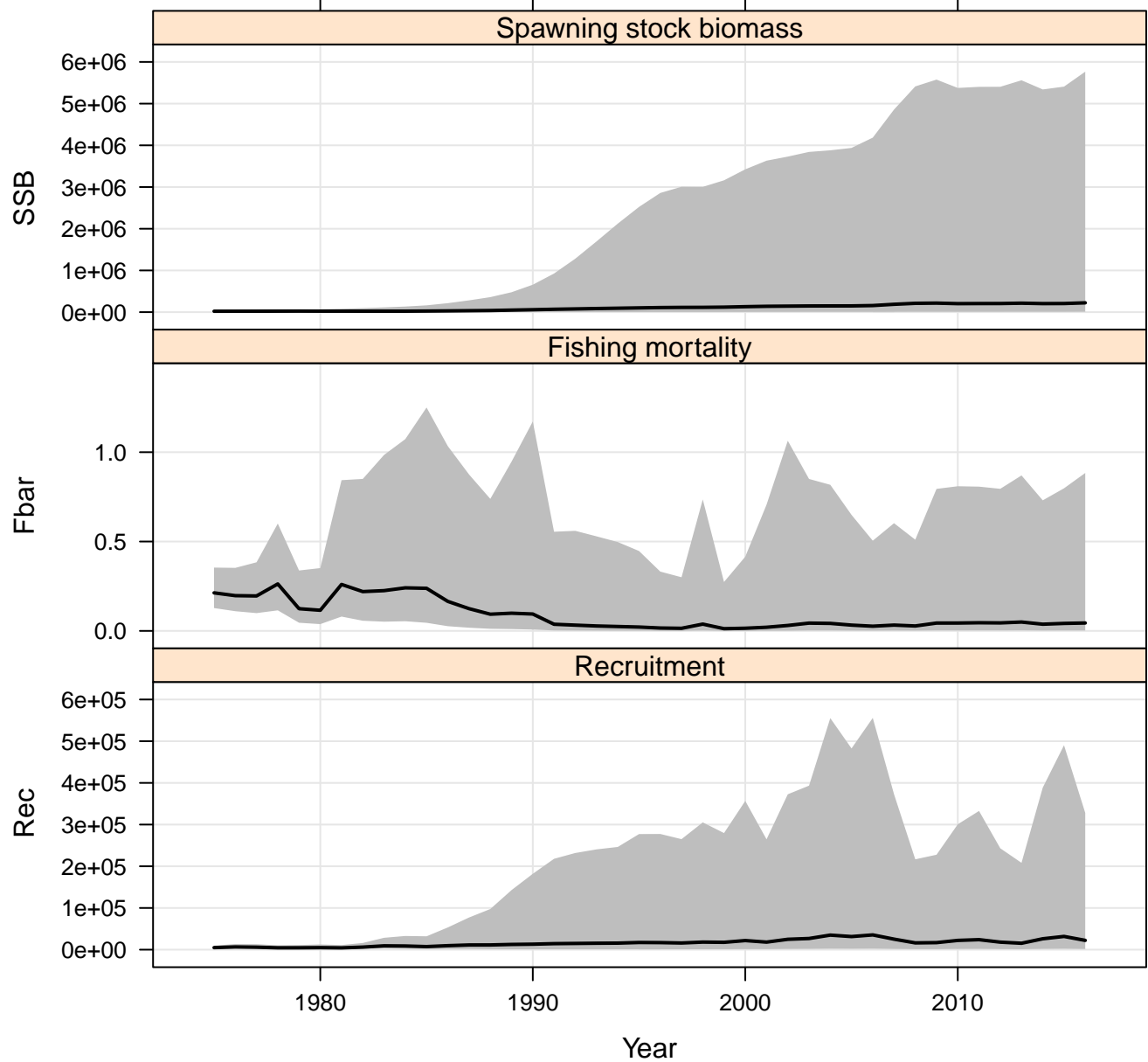
# Survey catchability parameters



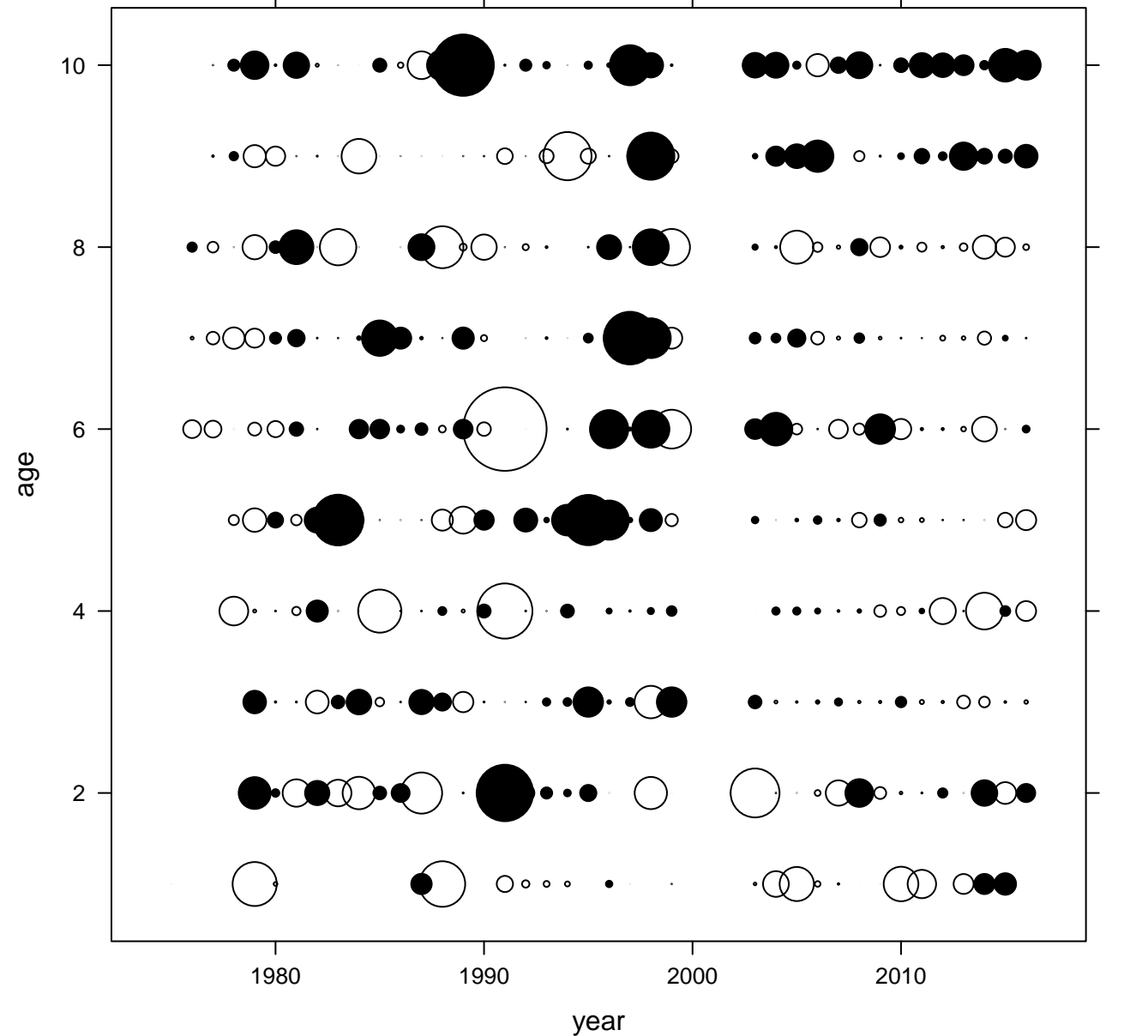
# Selectivity of the Fishery by Pentad



# Turbot in IV



# Residuals by year Catch



# Residuals by survey

1990 1995 2000 2005 2010 2015

BTS-ISIS

SNS

7

6

5

4

3

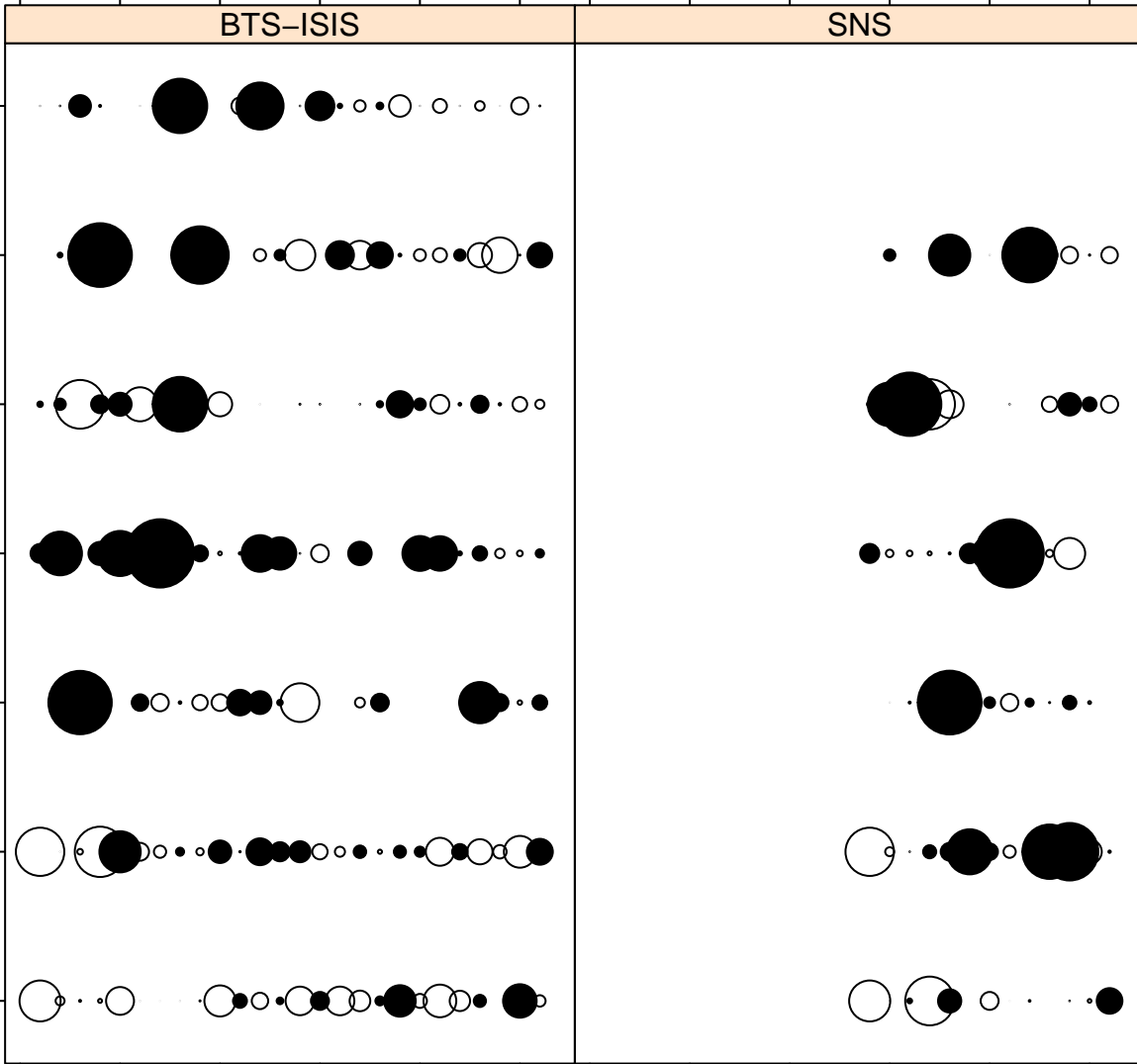
2

1

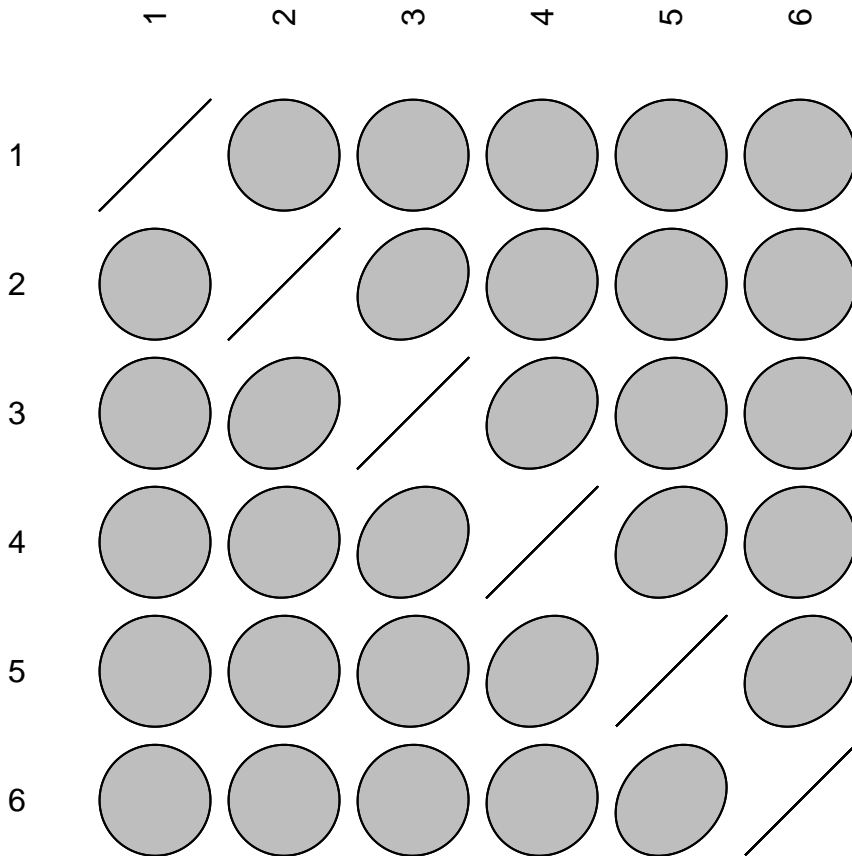
age

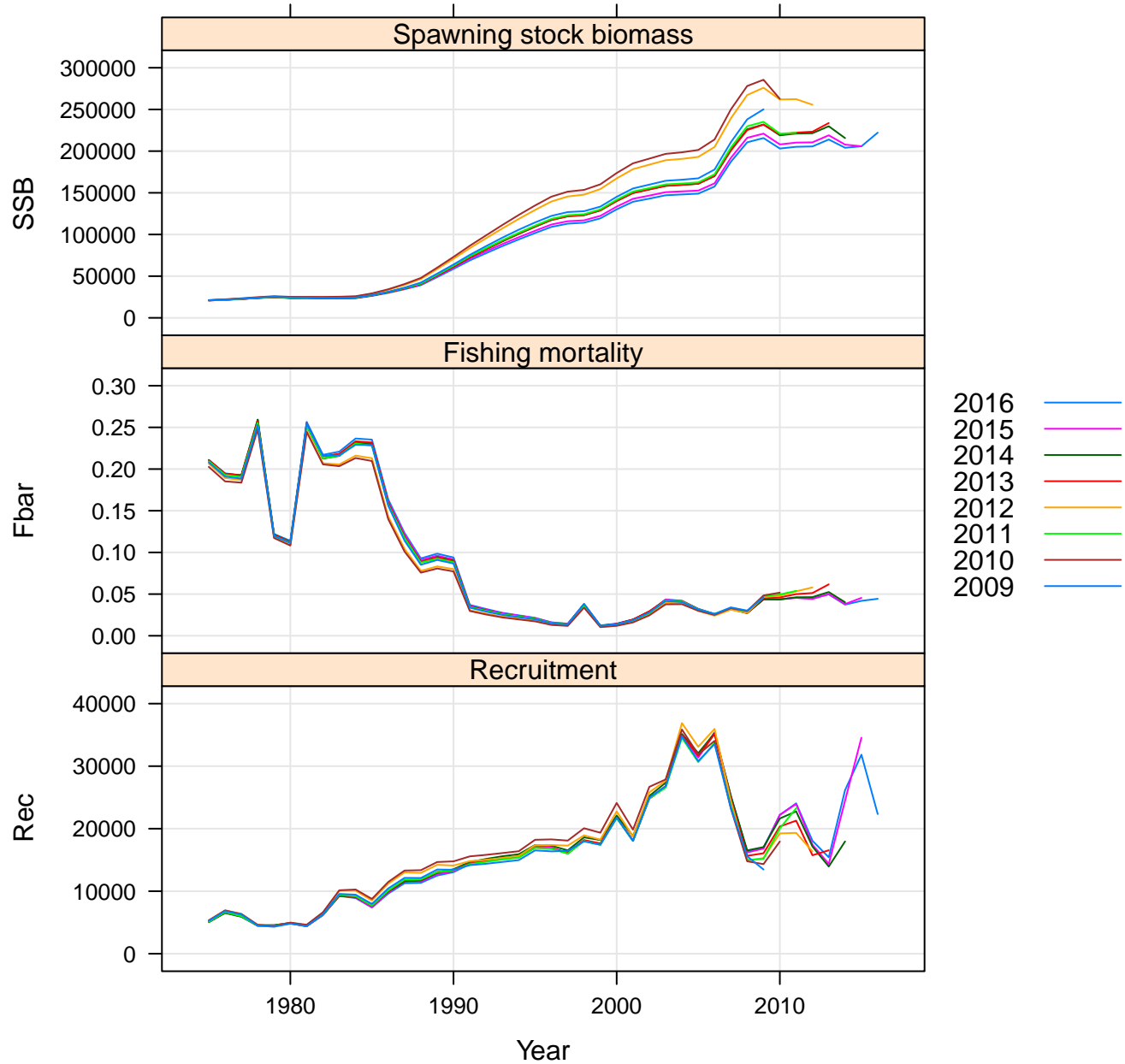
1990 1995 2000 2005 2010 2015

year



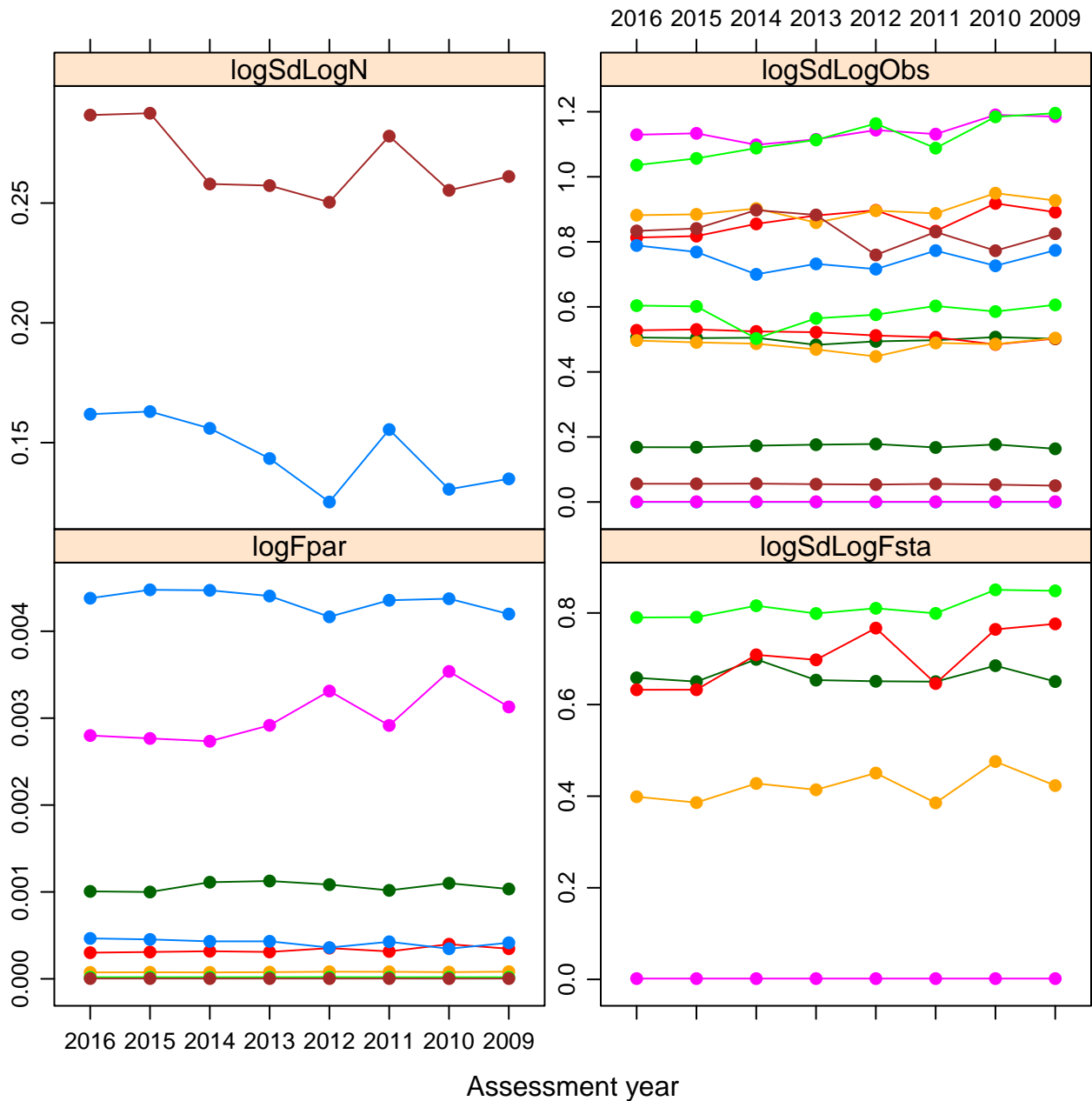
# SNS



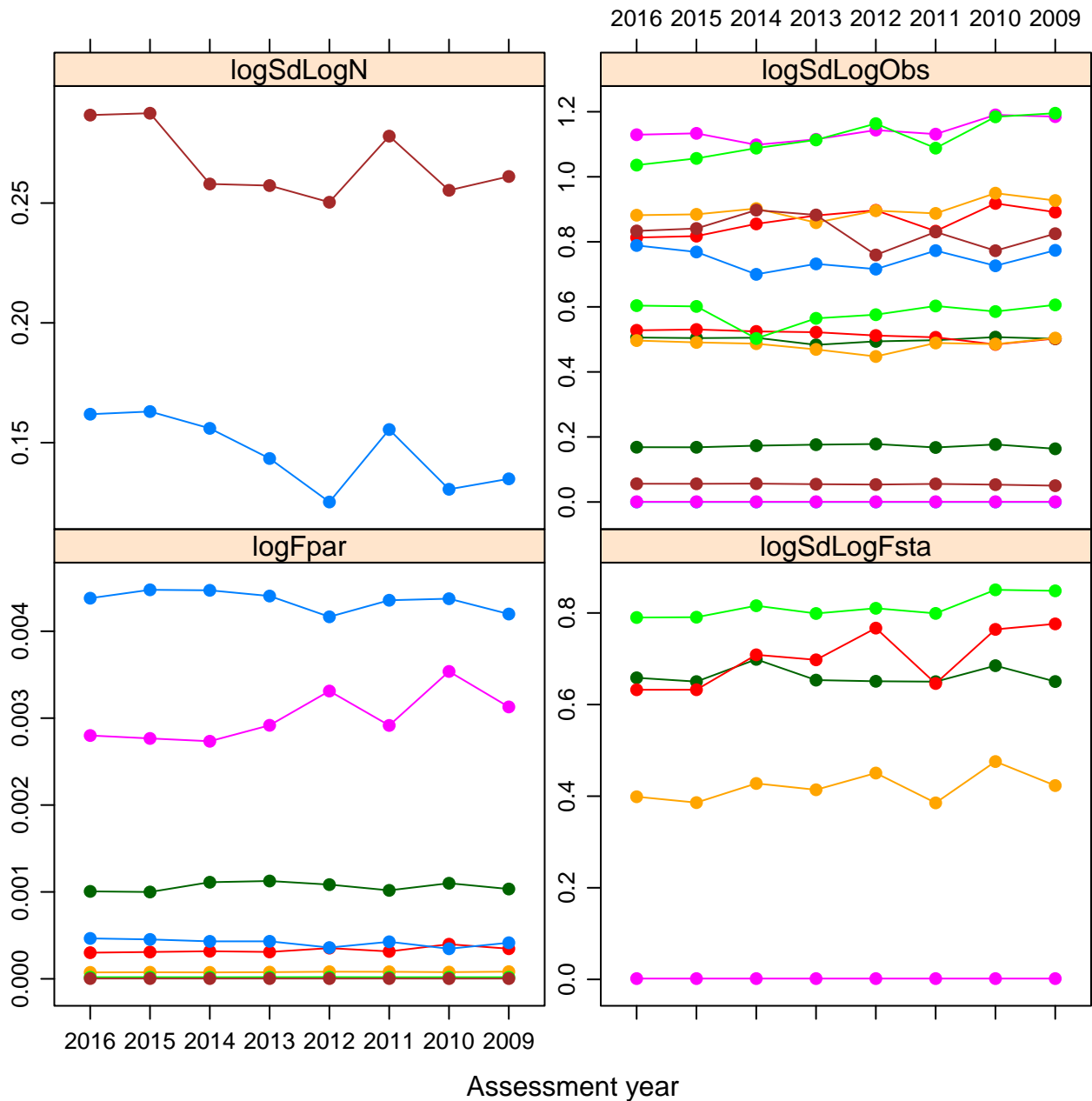




Parameter value



Parameter value



# Retrospective pattern in F at age

