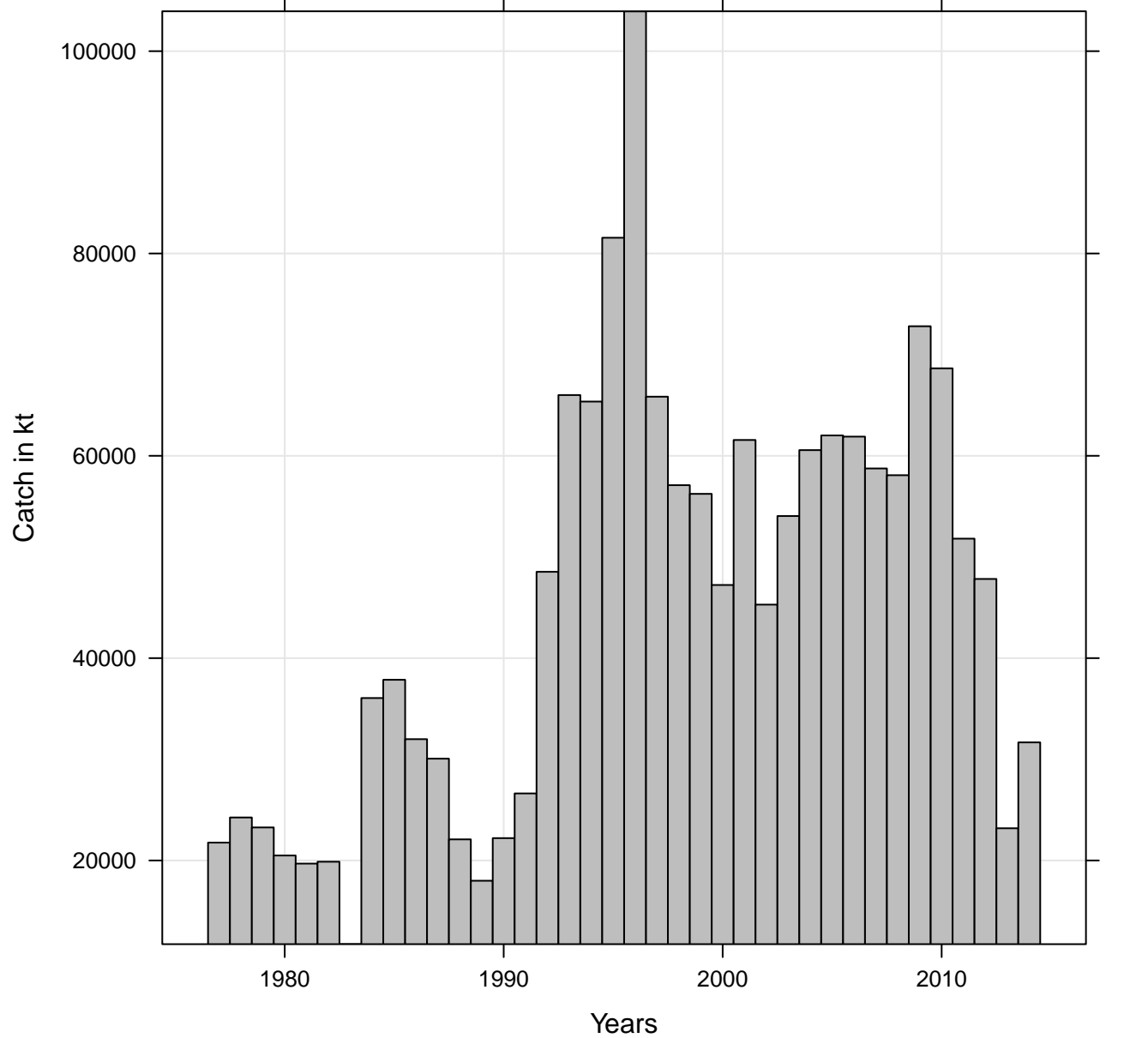


Fit of catch data

Total catch



Catch residuals by fleet

0 0
0 0
0 0

1980

1990

2000

2010

Atka_mackerel

Residuals

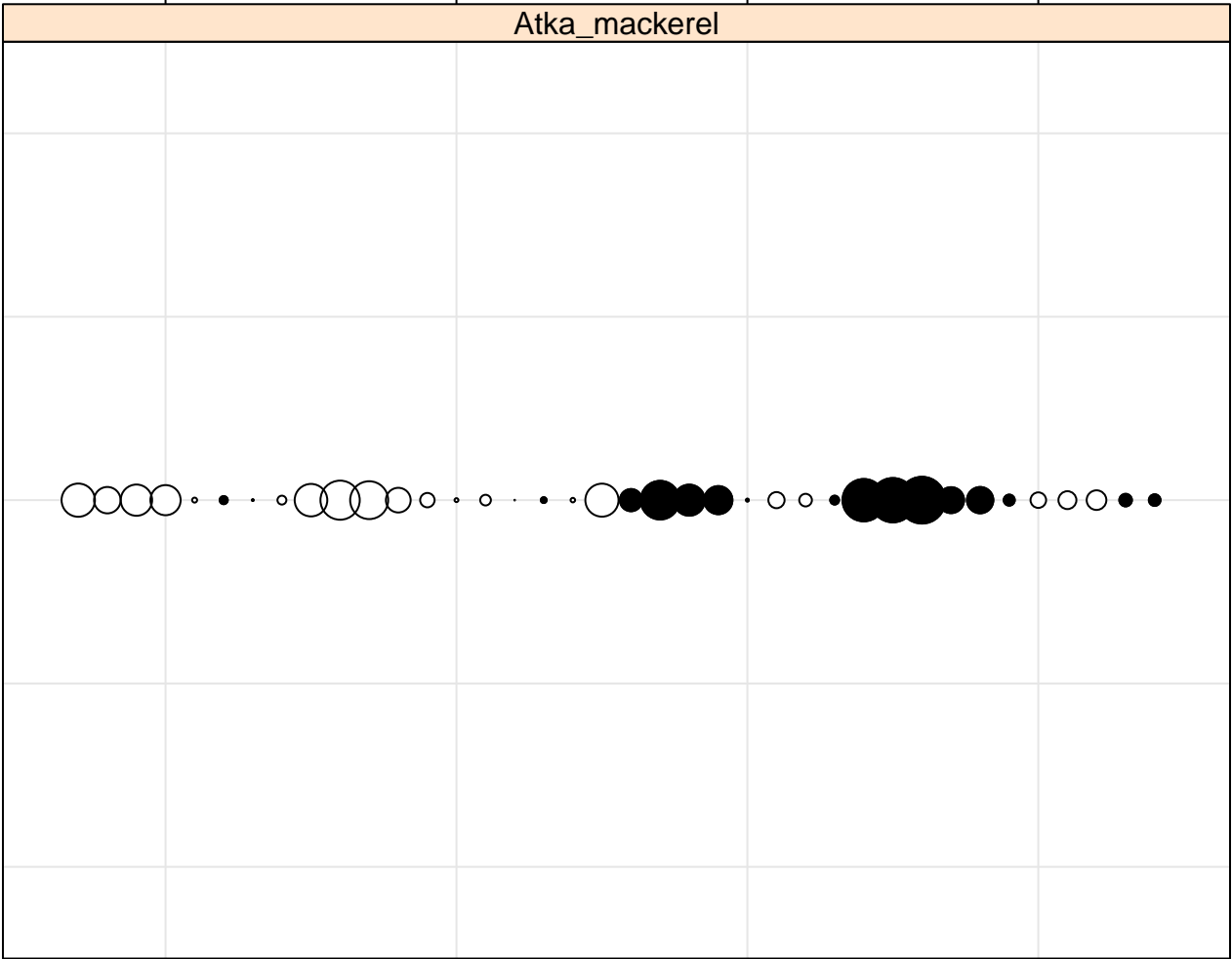
1980

1990

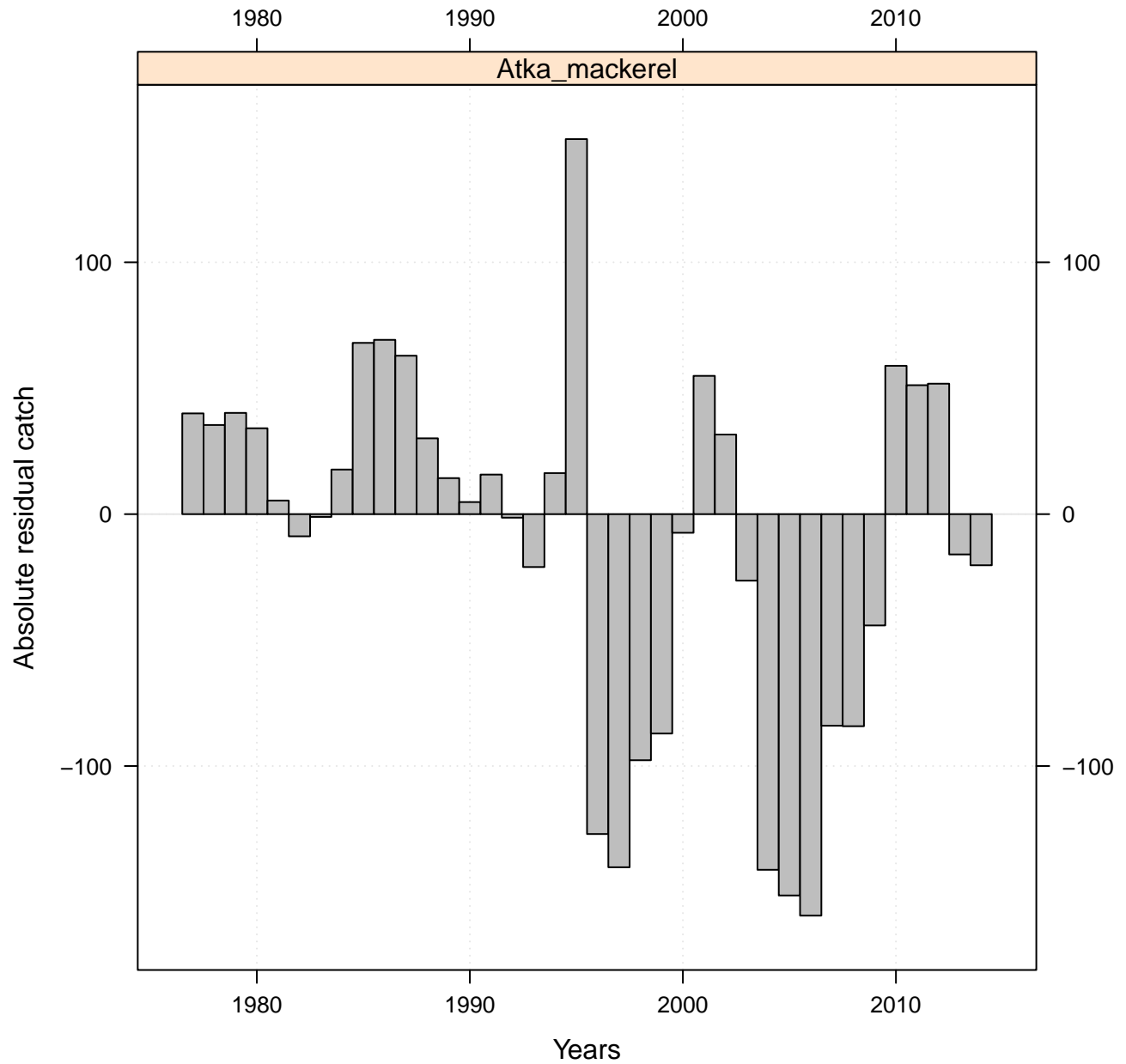
2000

2010

Years



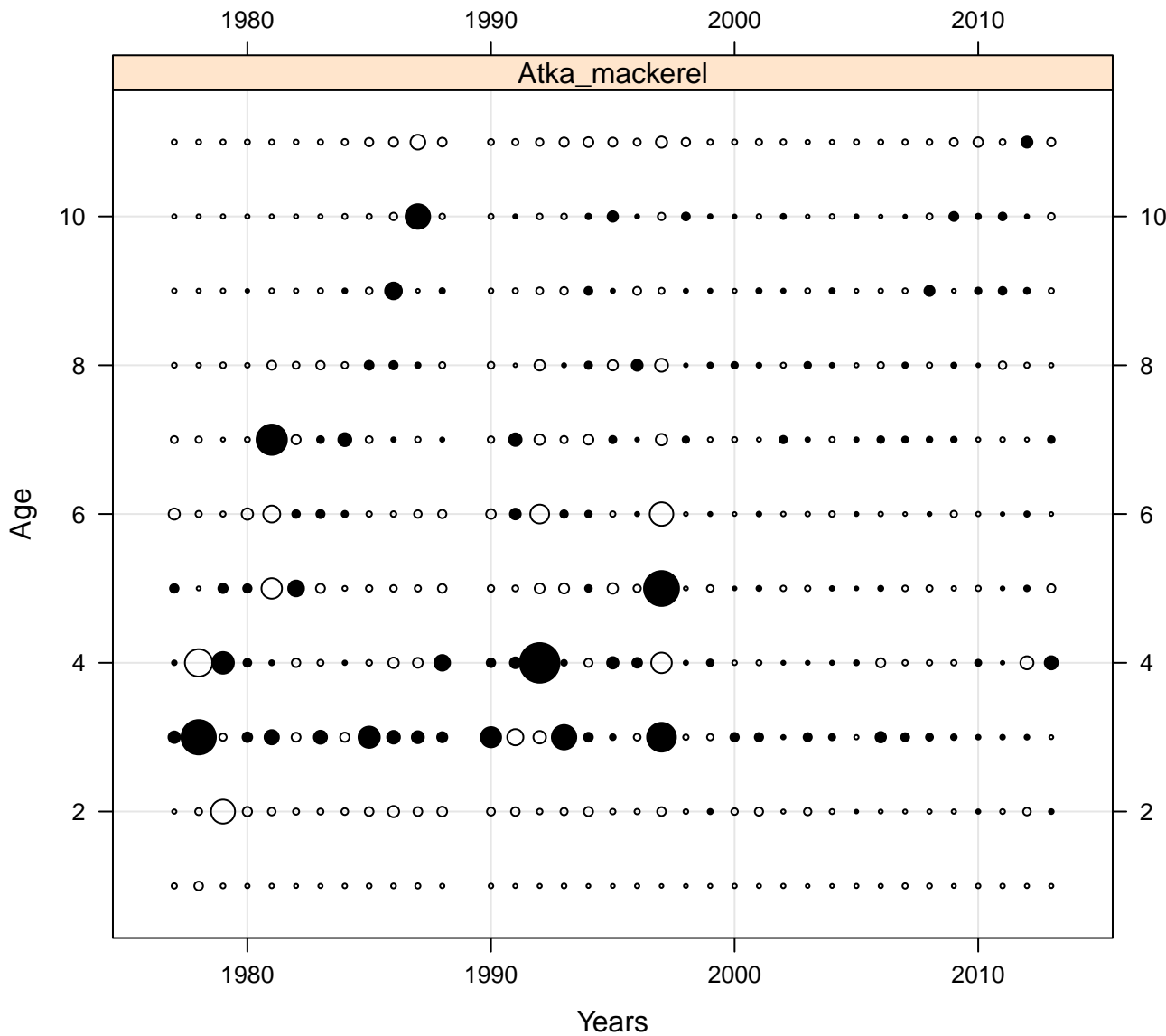
Absolute residual catch by fleet



Residuals catch-at-age by fleet



Atka_mackerel

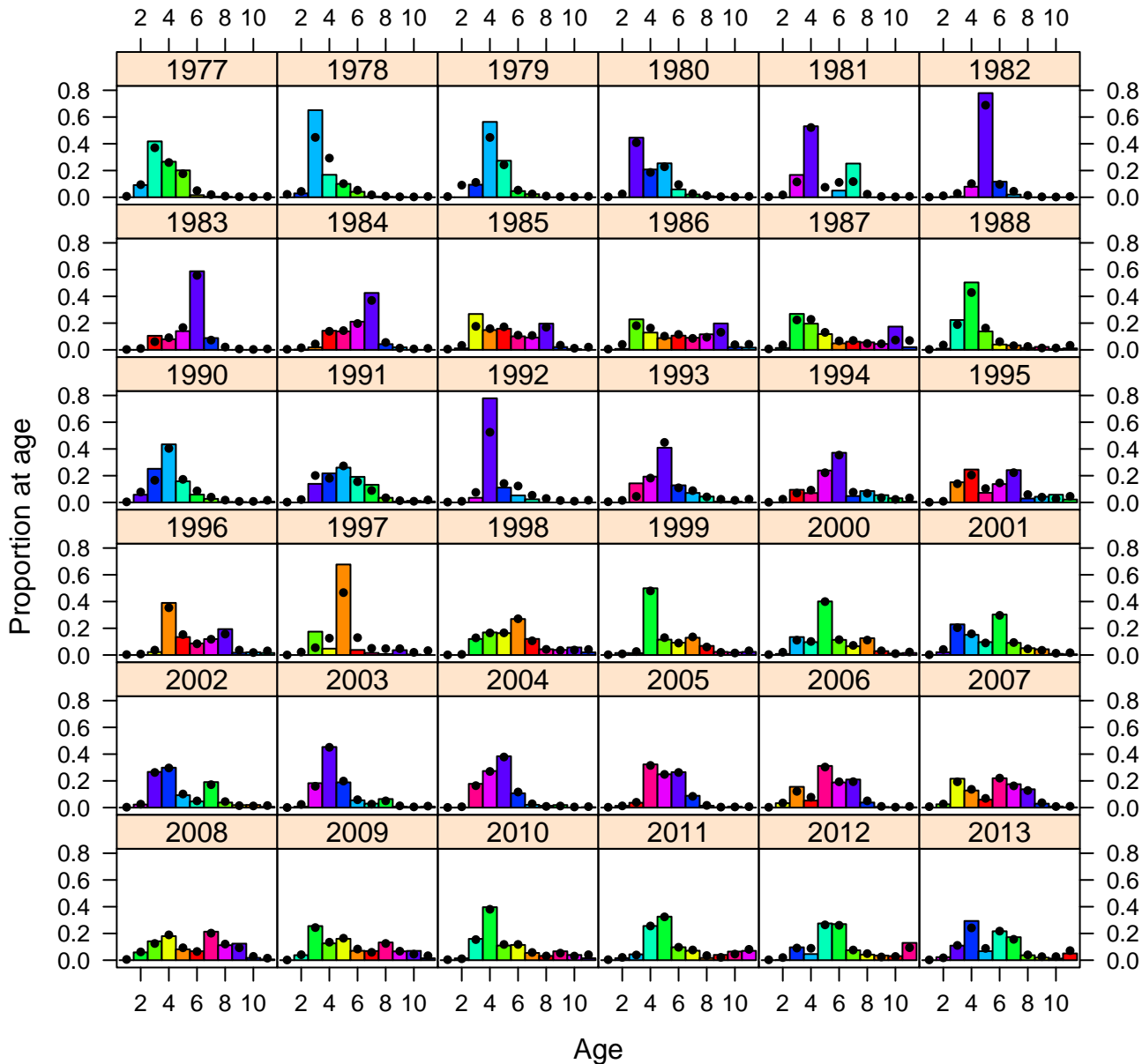


Age fits Atka_mackerel

Observed



Predicted



Predicted and observed catches by fleet

Observed



Predicted



Atka_mackerel



Fit of survey data

Predicted and observed indices

Observed



Predicted



1980

1990

2000

2010

NMFS_Bottom_trawl

Normalized index value

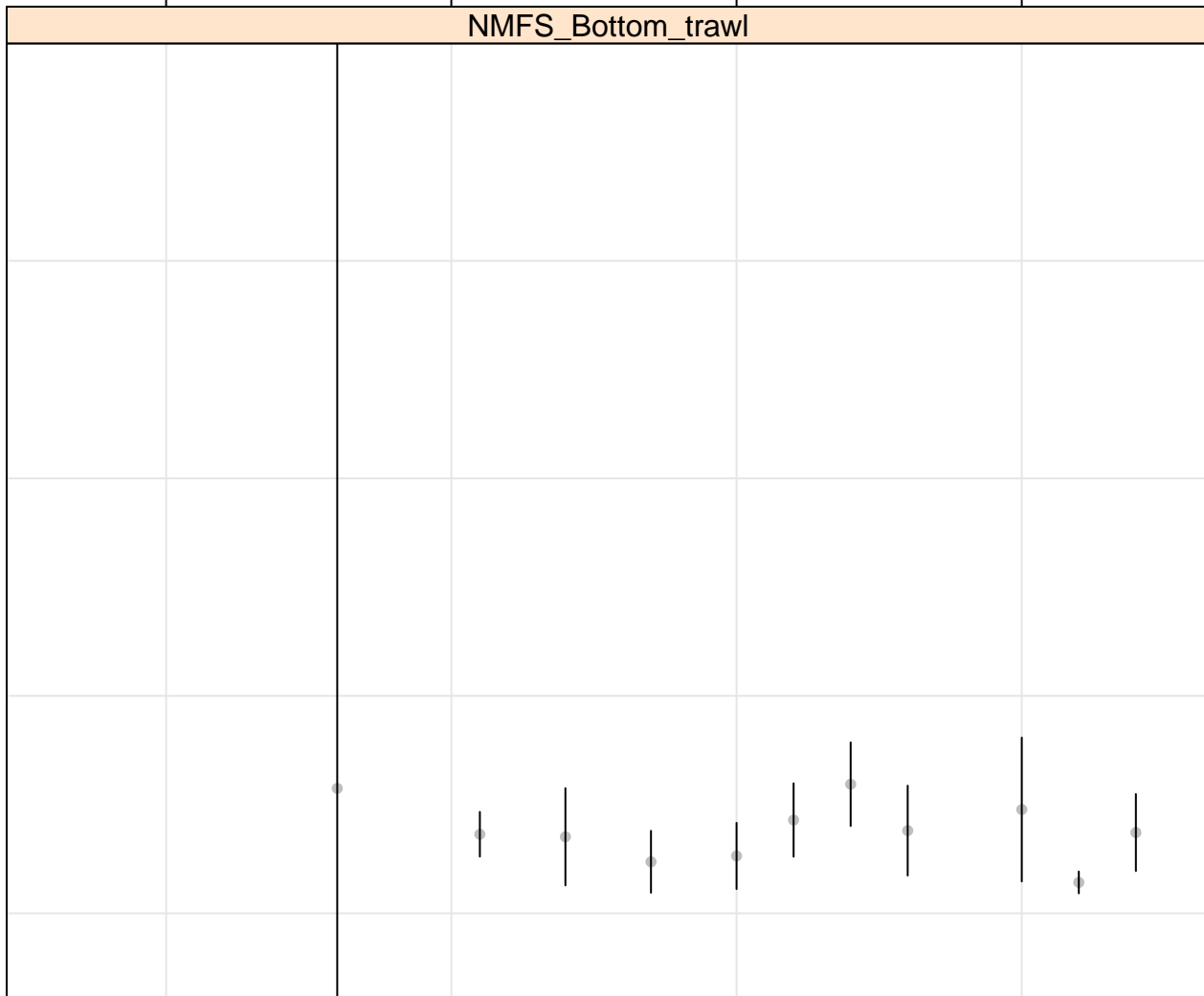
1980

1990

2000

2010

Years

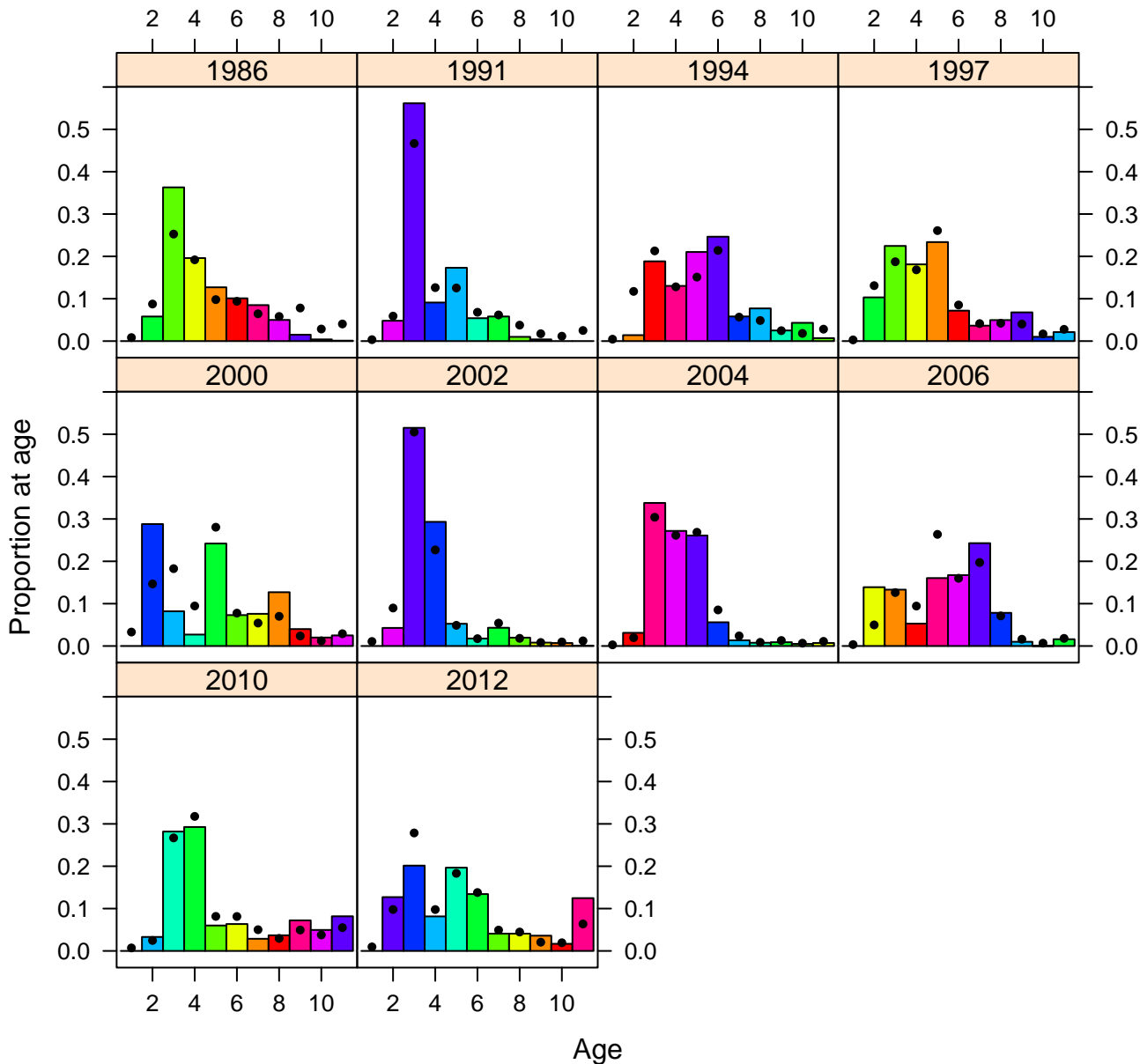


Age fits NMFS_Bottom_trawl

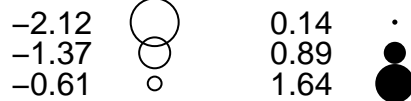
Observed



Predicted



Standardized survey residuals



NMFS_Bottom_trawl

Log residuals

1980

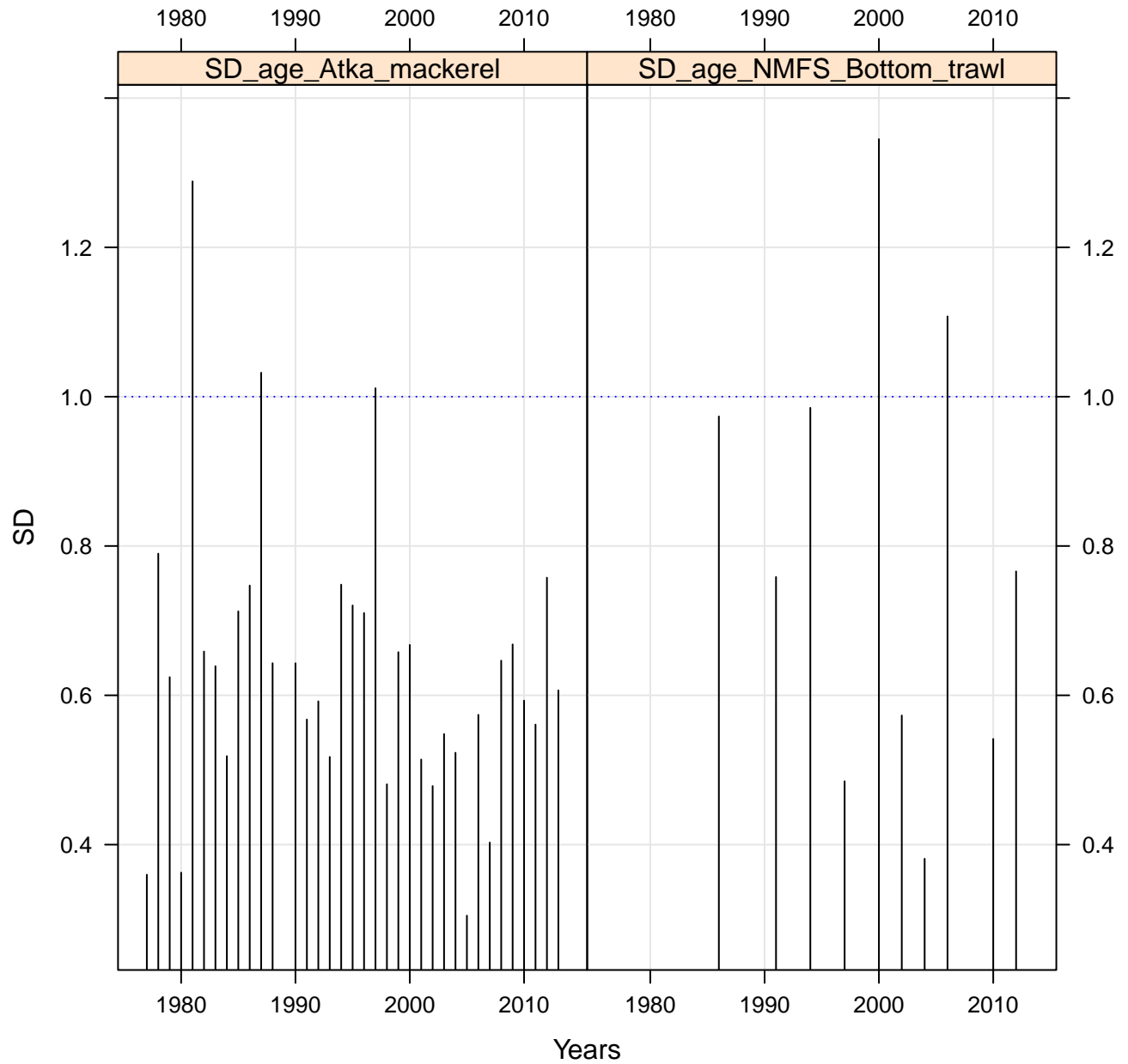
1990

2000

2010

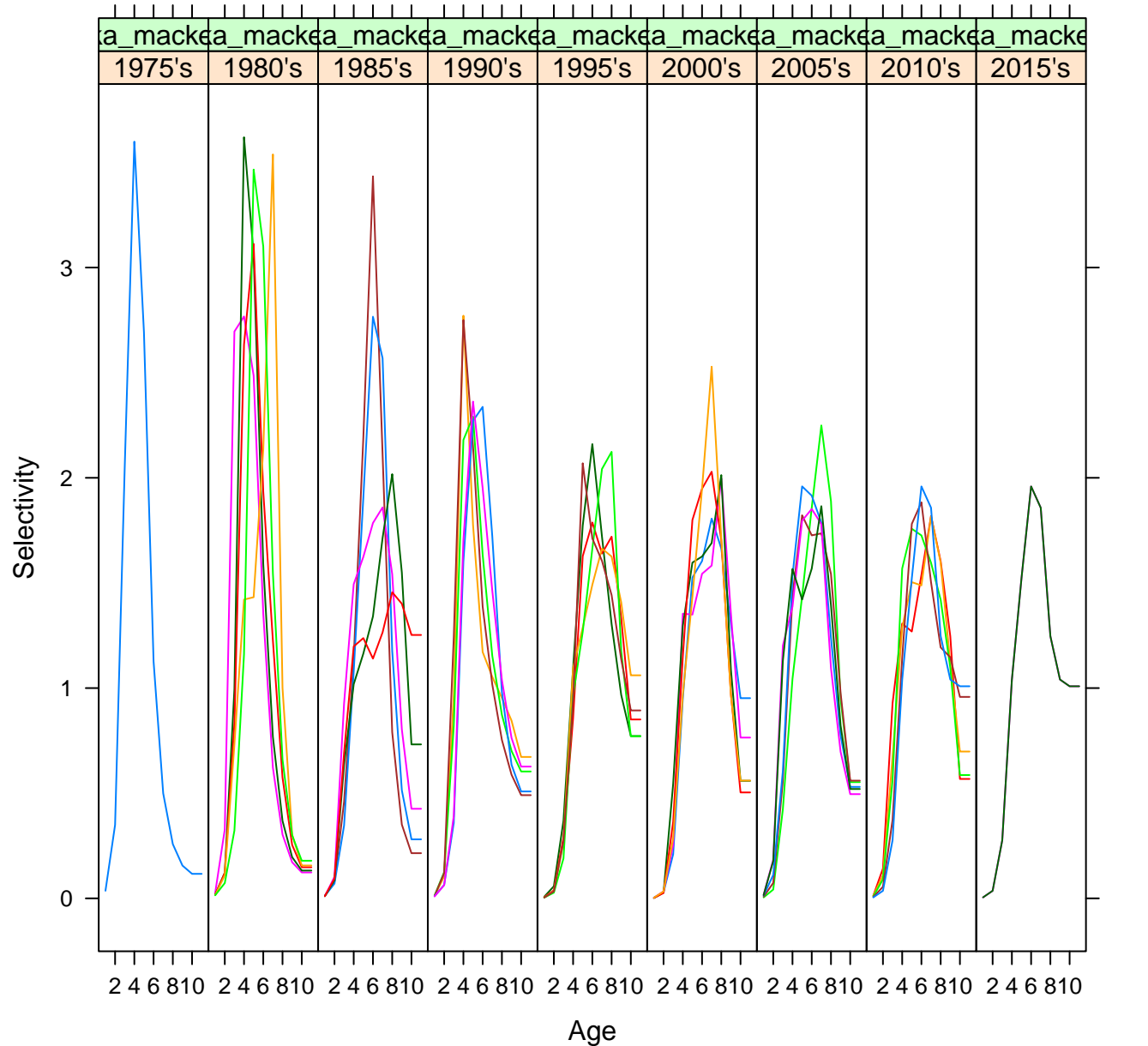
Years

SD per input series

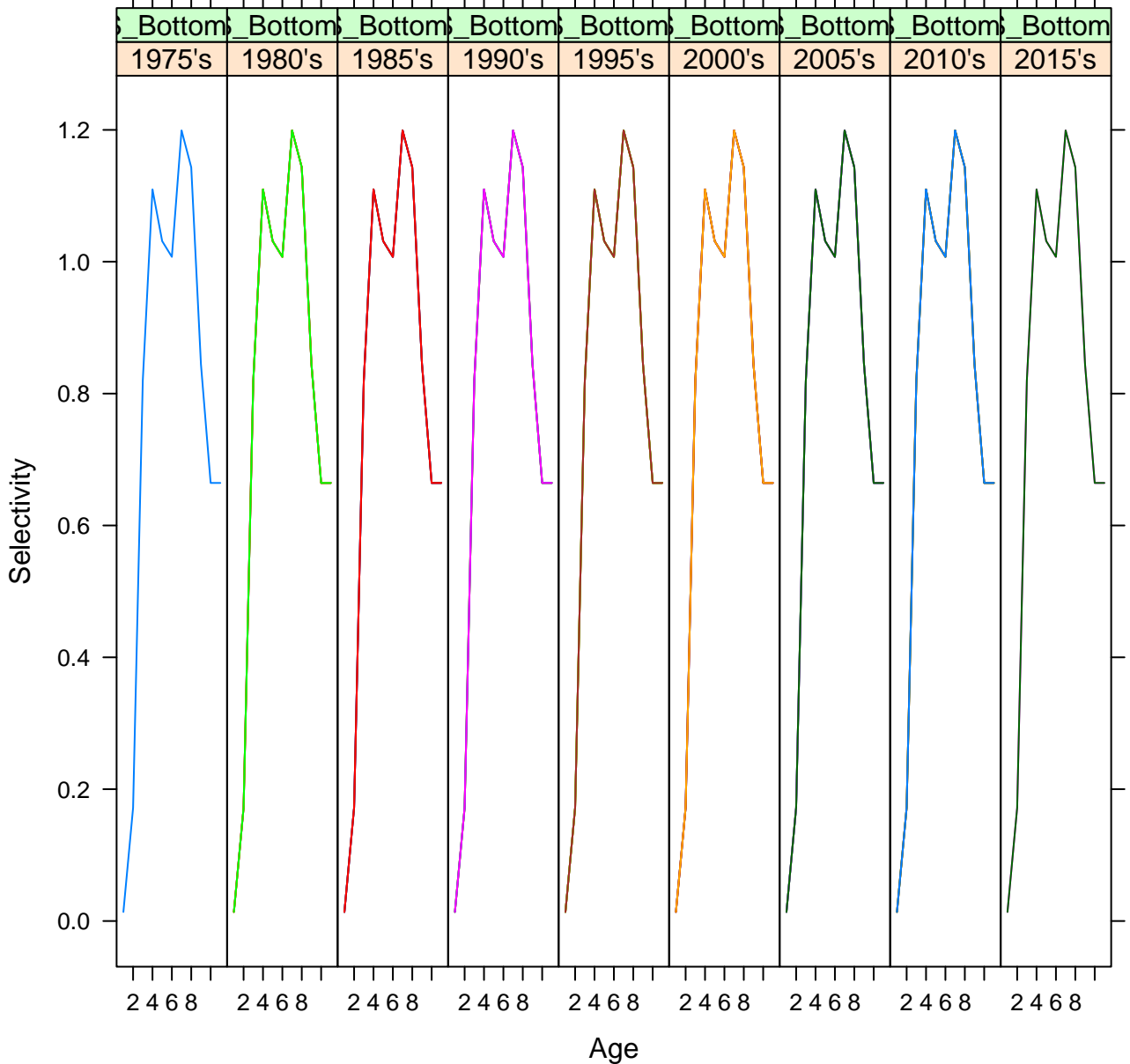


Fleet & Survey sel & F

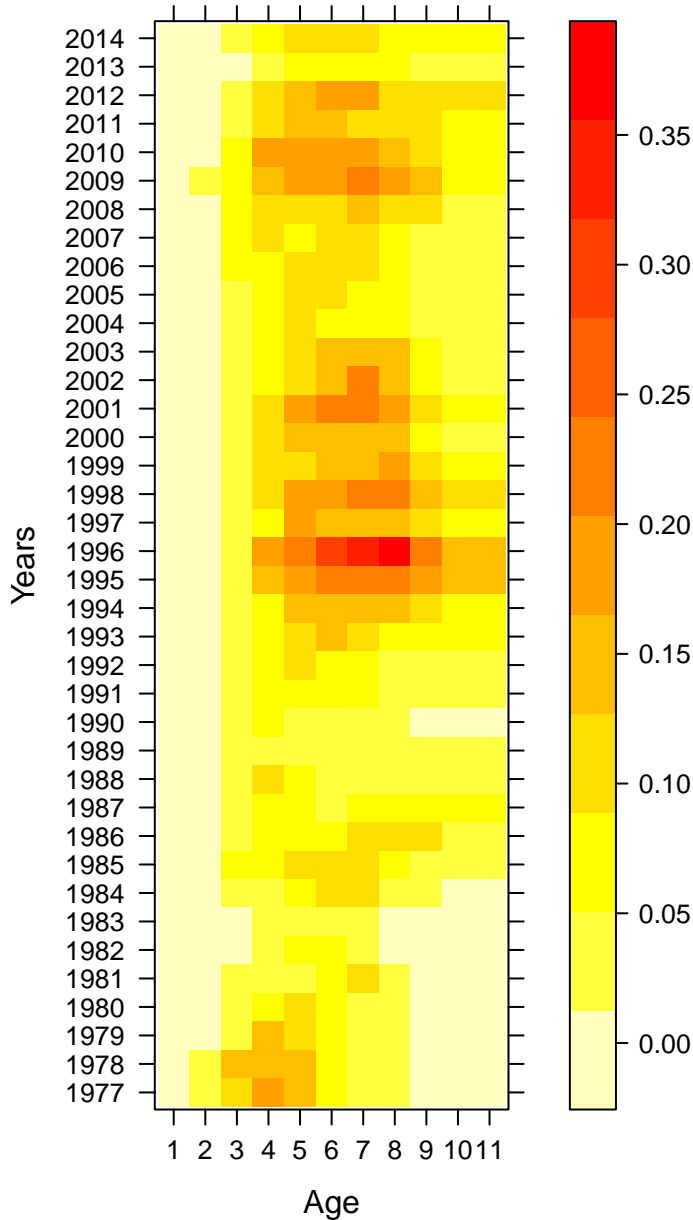
Selectivity of the Fishery by Pentad



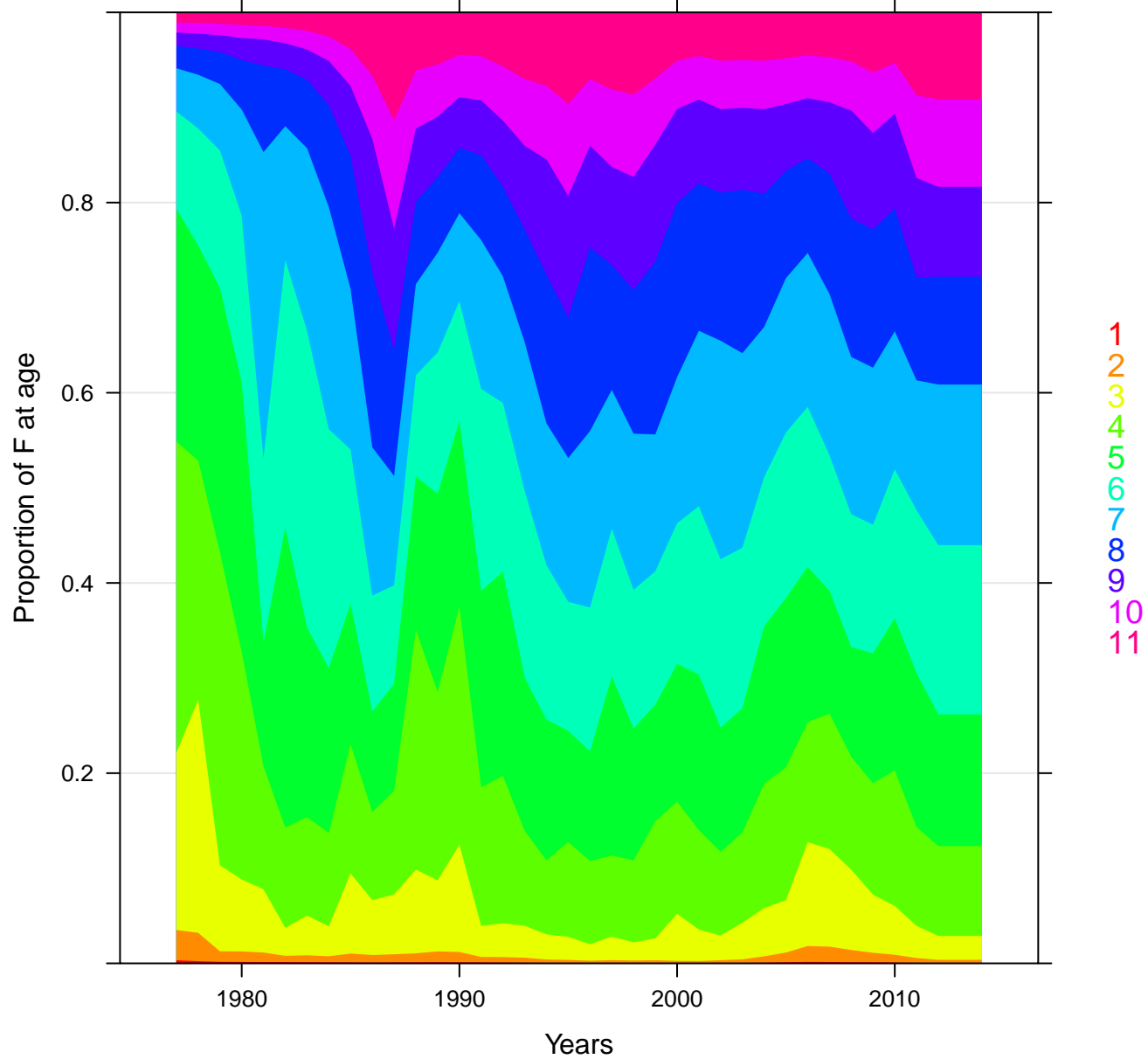
Selectivity of the survey by Pentad



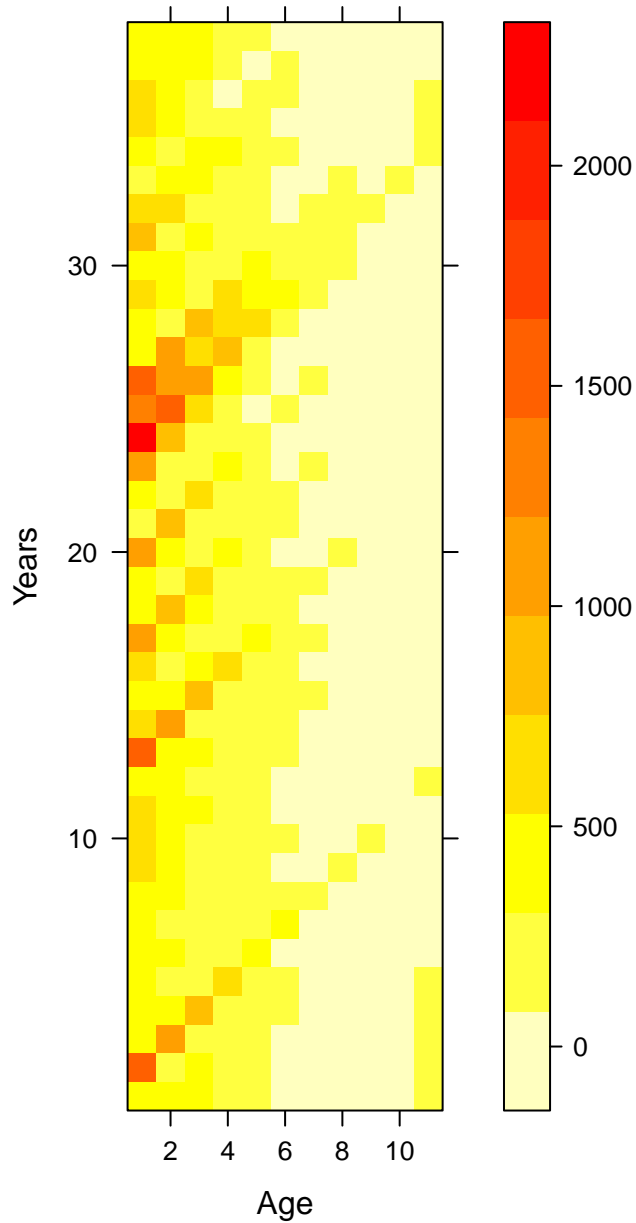
F at age



F proportion at age



N at age



Proportion at age



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Fishery mean age

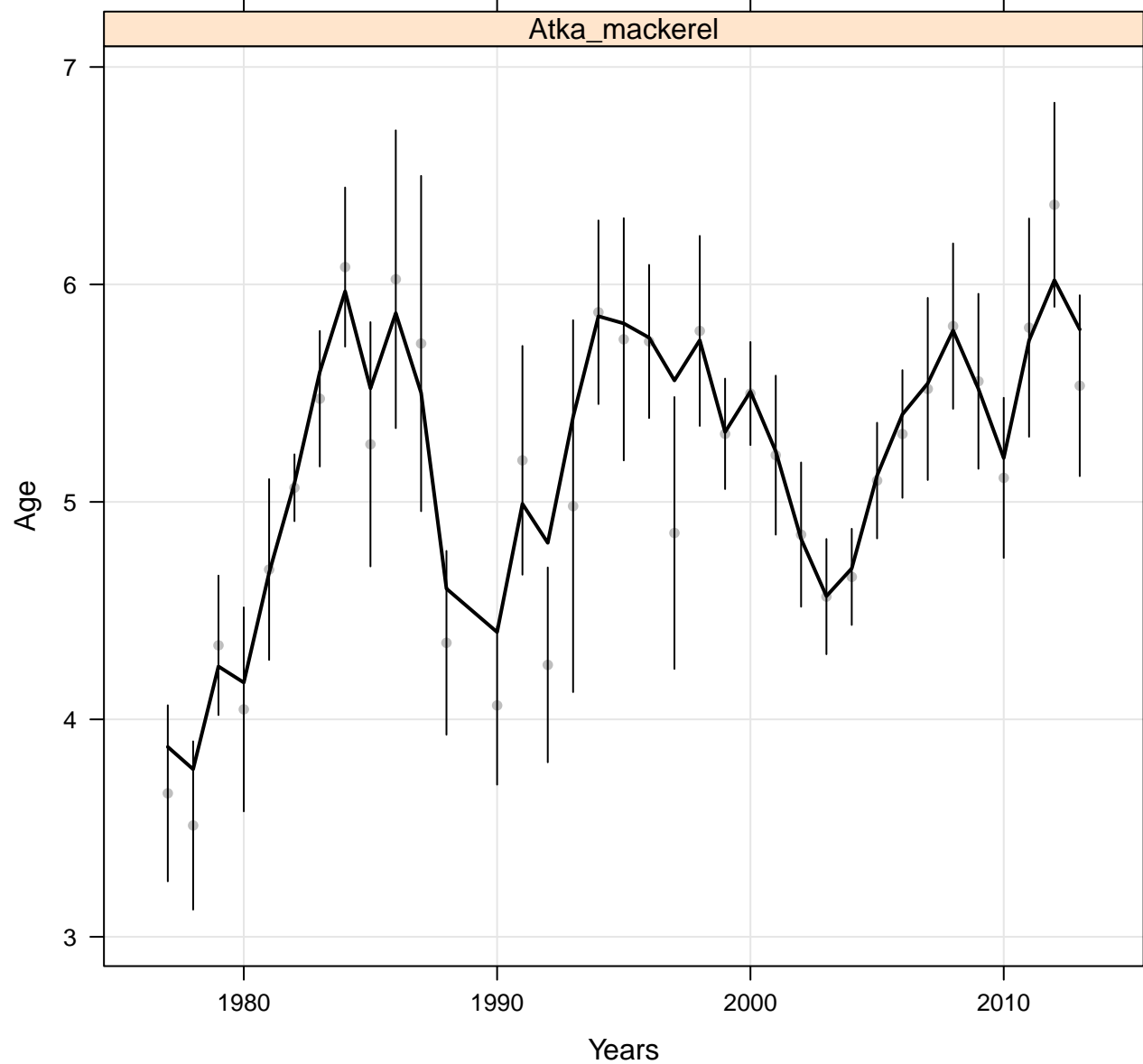
Observed



Modelled



Atka_mackerel



Survey mean age

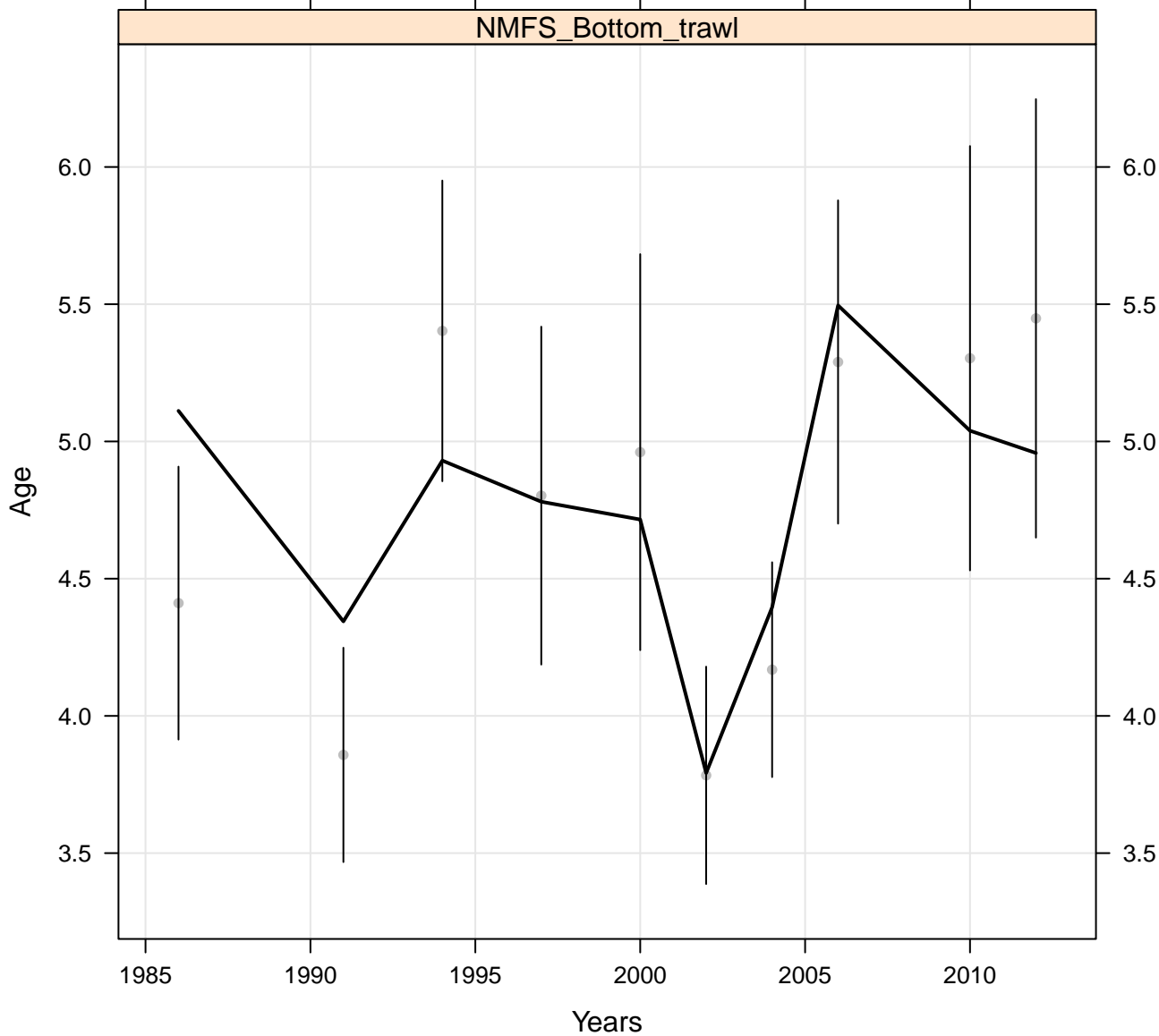
Observed



Modelled

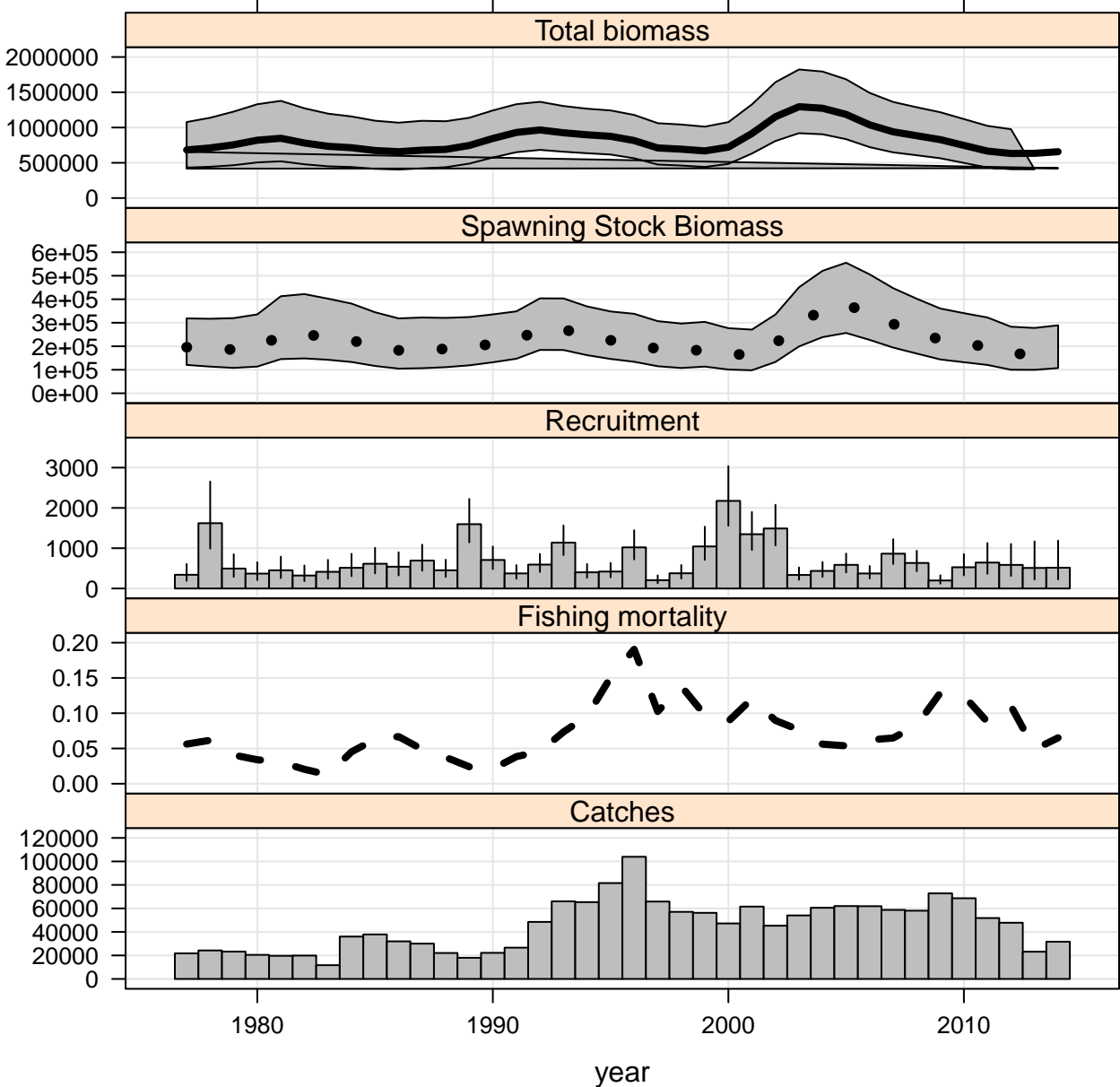


NMFS_Bottom_trawl

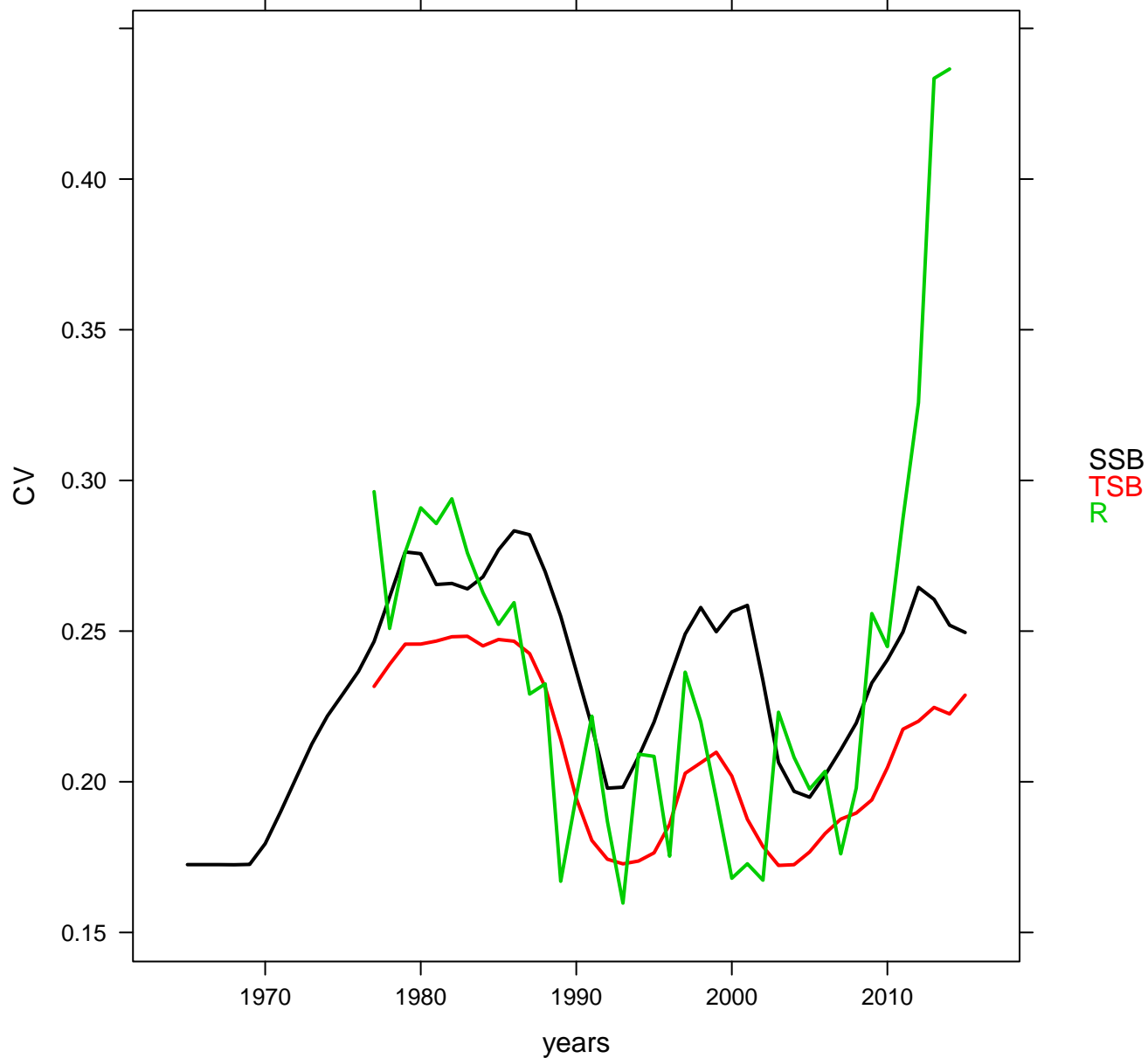


Stock summary

Summary sheet



Uncertainty of key parameters



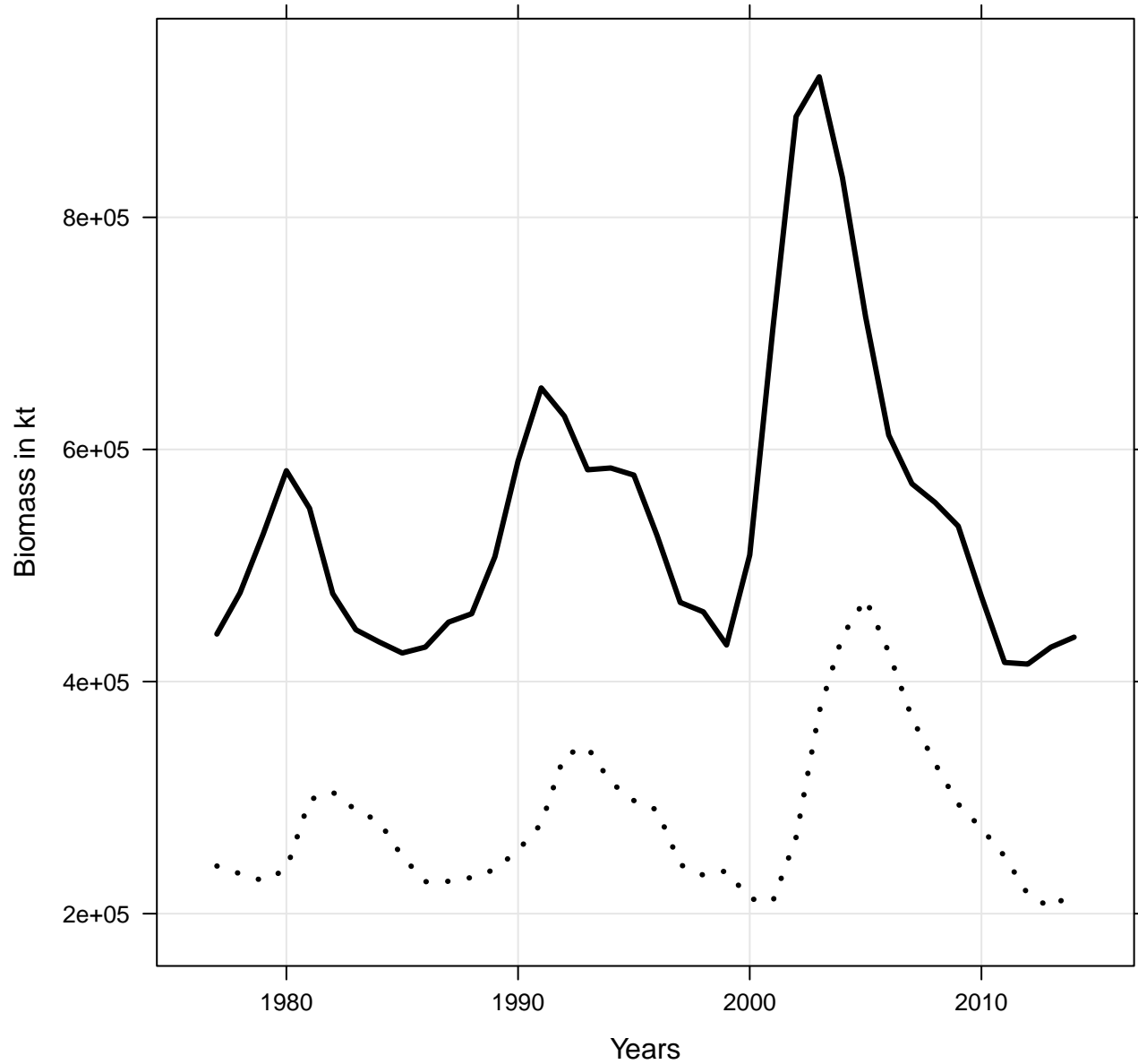
Mature – Immature fish

Mature

.....

Immature

————



Stock Recruitment

Observed



.....

Modelled



Recruitment

2000

1500

1000

500

0

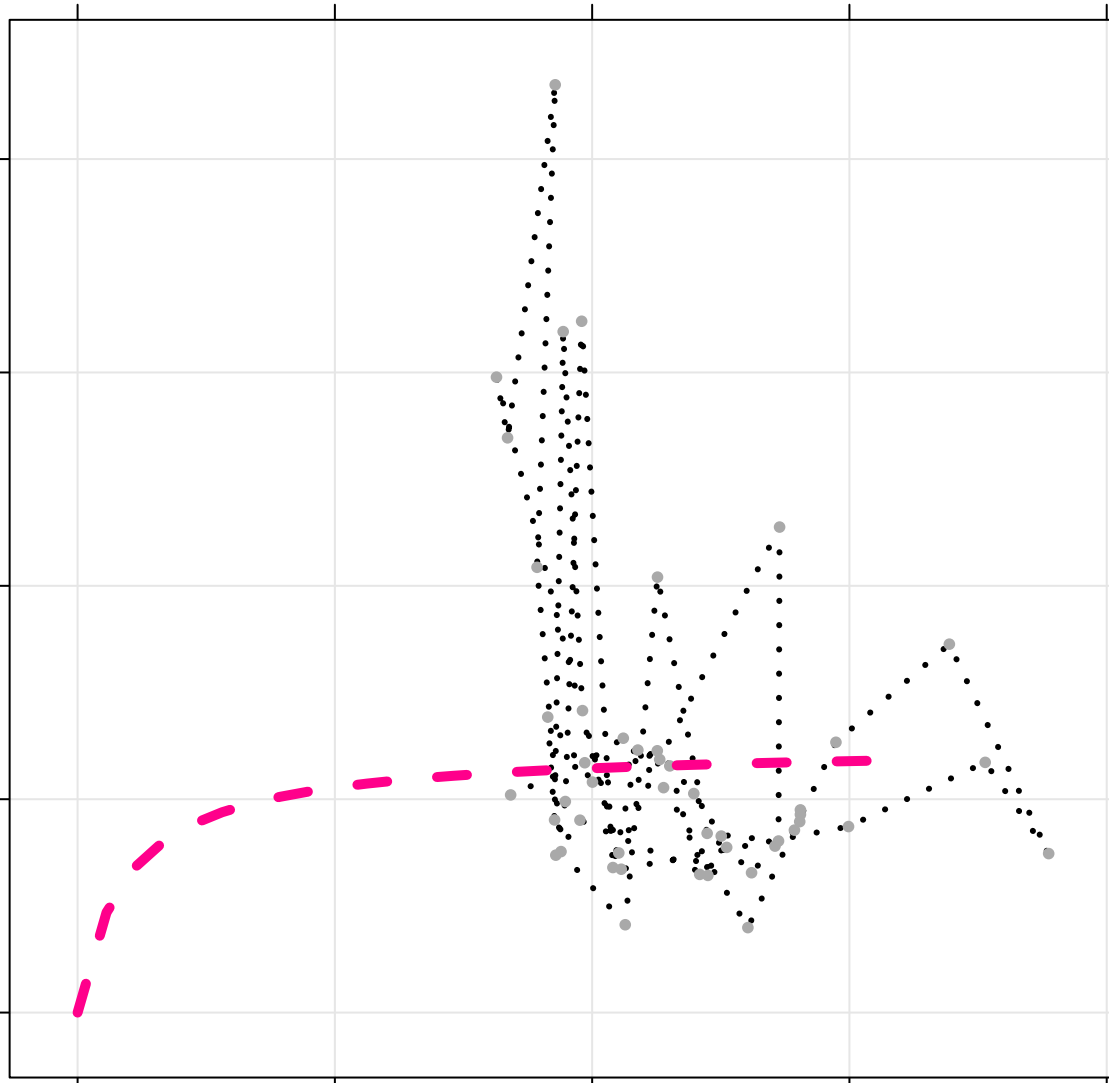
0e+00

1e+05

2e+05

3e+05

Spawning Stock Biomass



Fished vs. unfished biomass

Fished



Unfished



Total biomass

1600000
1400000
1200000
1000000
800000
600000

1980

1990

2000

2010

Years

