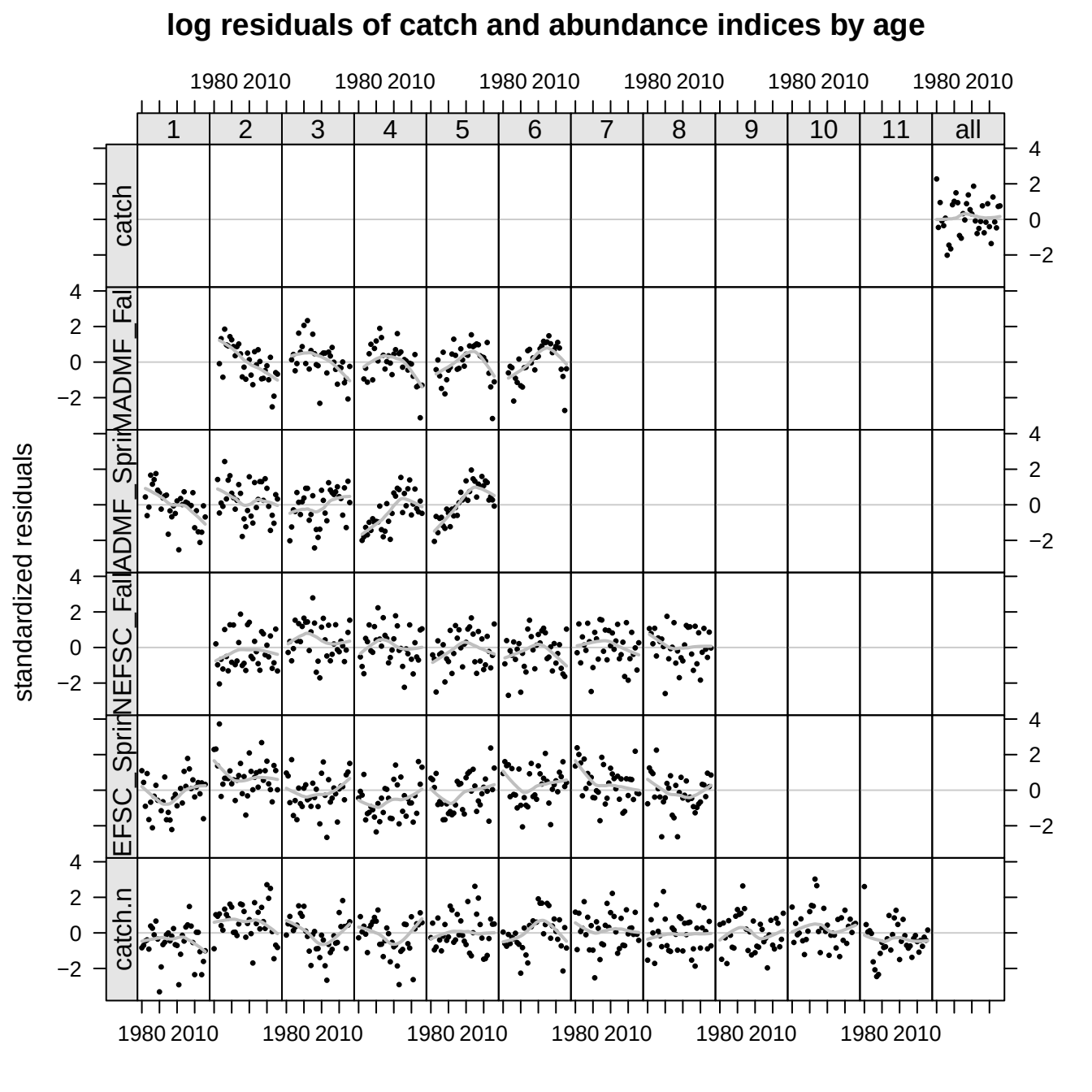
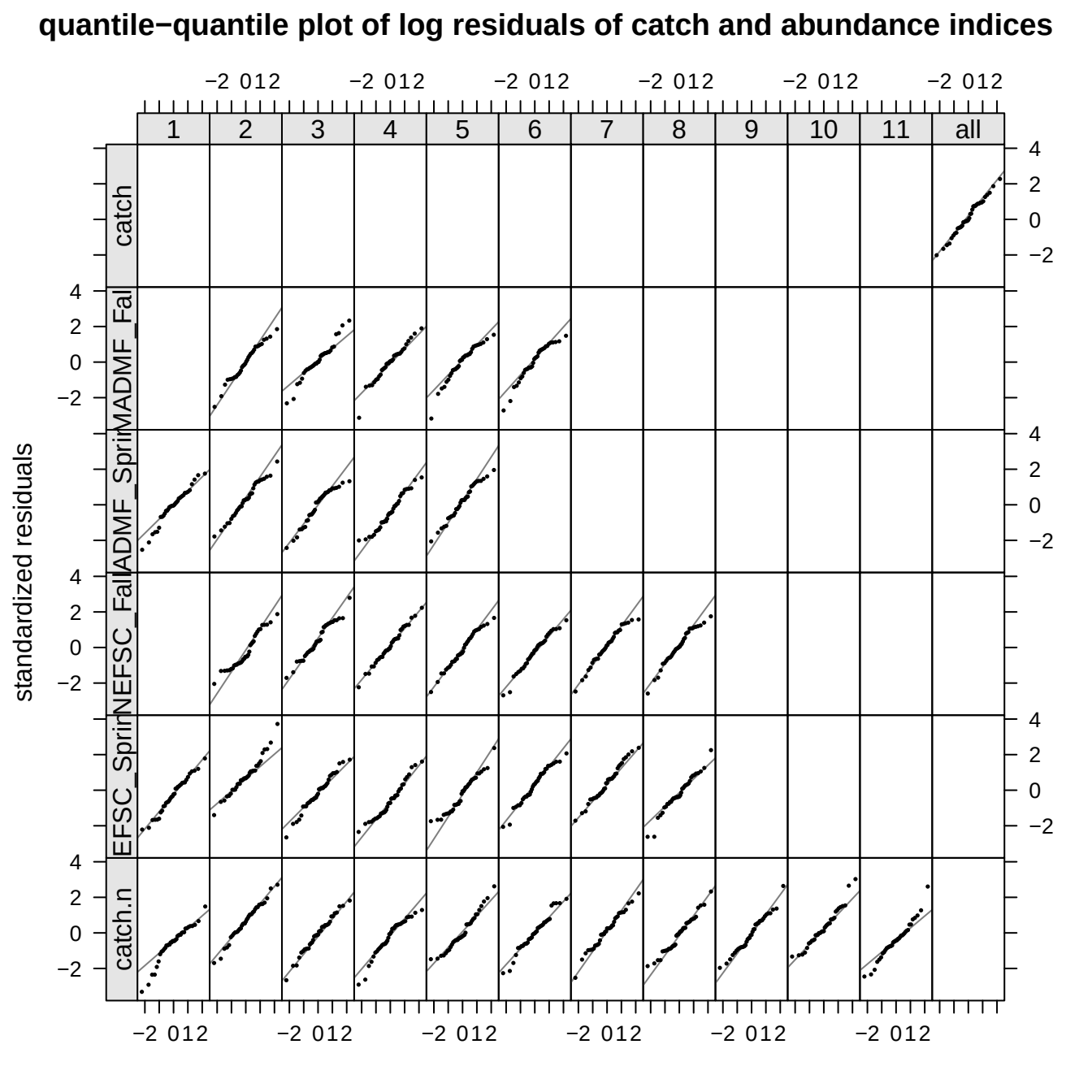
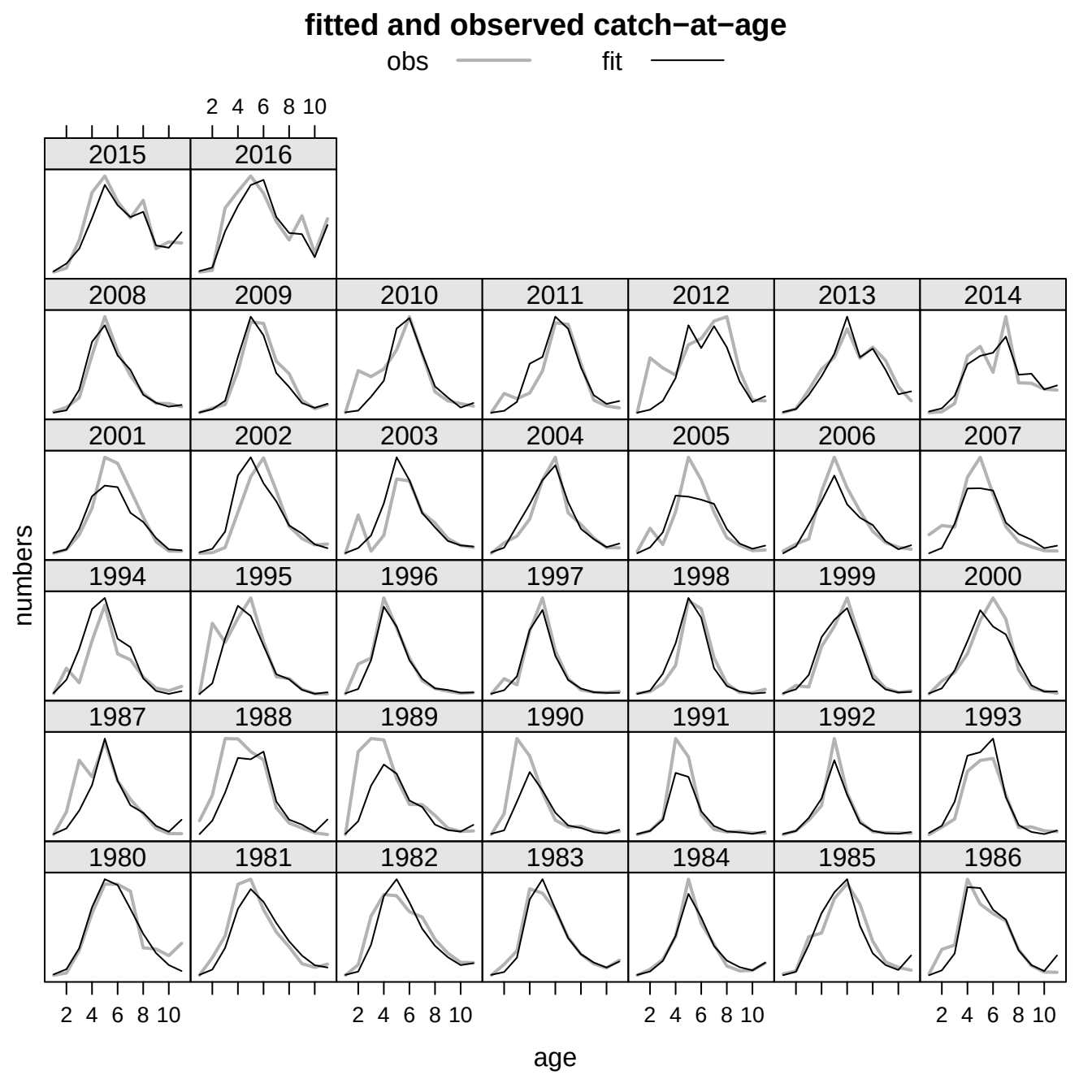
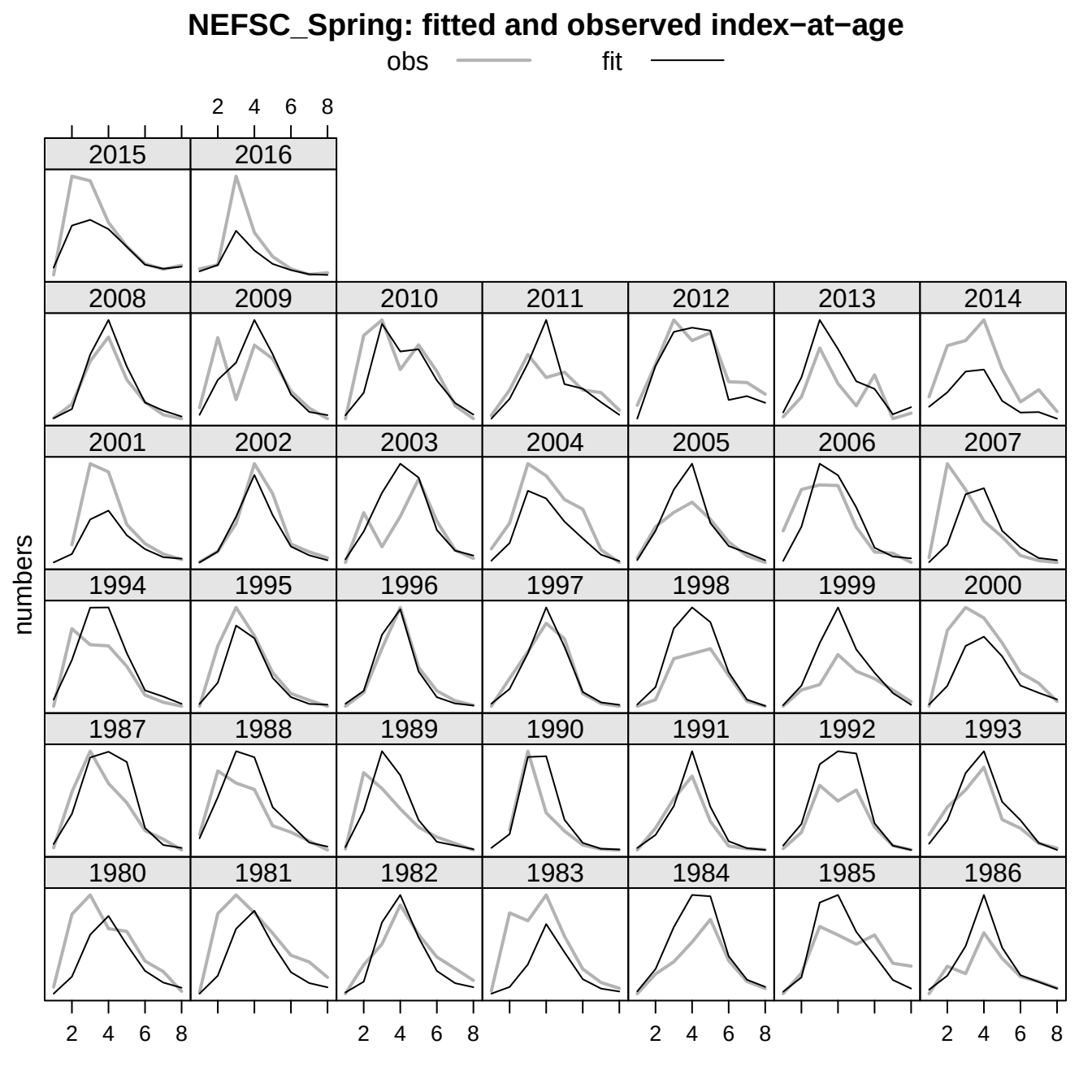
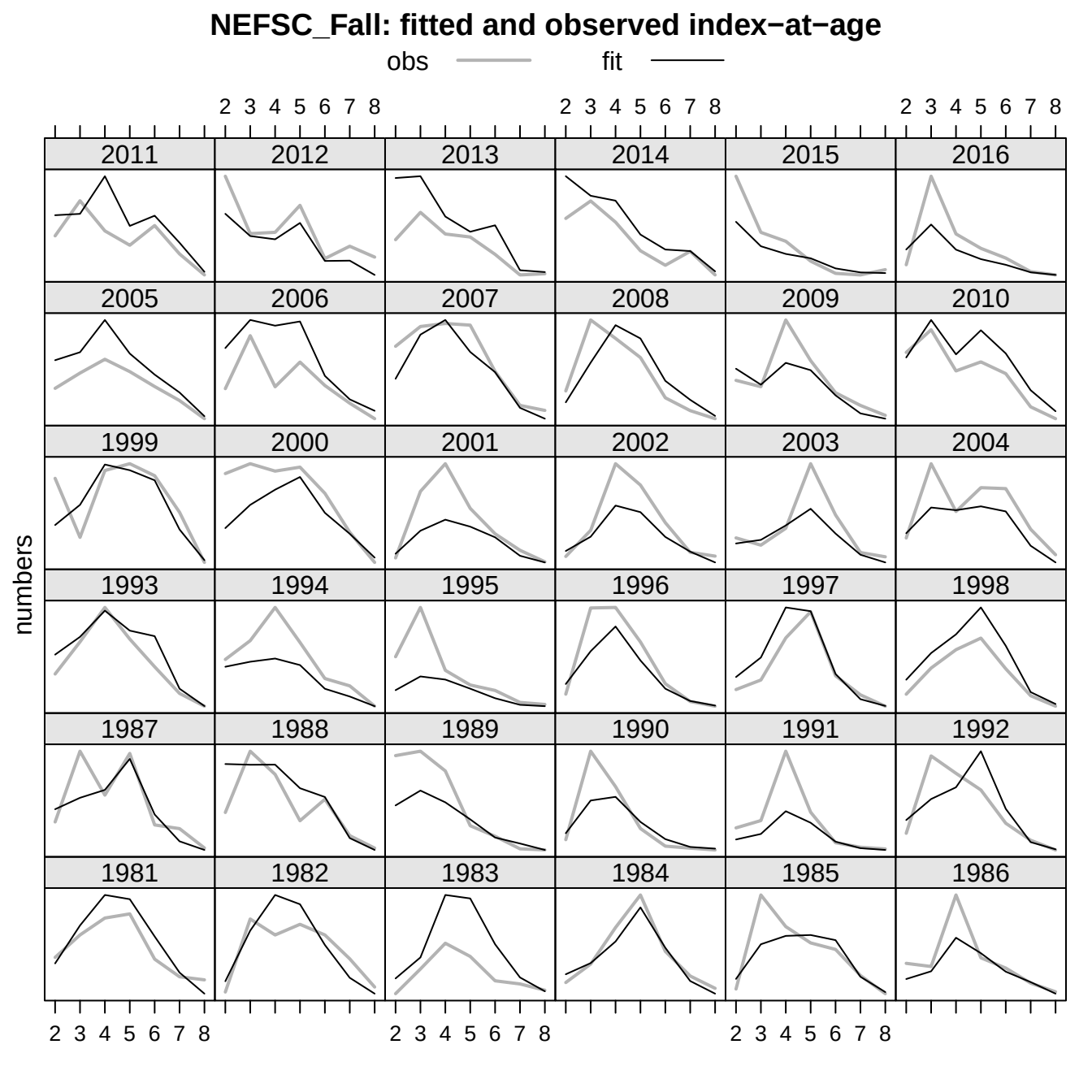

log residuals of catch and abundance indices by age
standardized residuals
1980 2010
1 2 3 4 5 6 7 8 9 10 11 all
catch
ADMF_Fall
ADMF_Sprin
NEFSC_Fall
EFSC_Sprin
catch.n
4
2
0
−2


quantile−quantile plot of log residuals of catch and abundance indices
standardized residuals
1
2
3
4
5
6
7
8
9
10
11
all
catch
MADMF_Fall
MADMF_Sprin
NEFSC_Fall
EFSC_Sprin
catch.n
−2 012
4
2
0
−2


fitted and observed catch−at−age
obs
fit
2015
2016
2008
2009
2010
2011
2012
2013
2014
2001
2002
2003
2004
2005
2006
2007
1994
1995
1996
1997
1998
1999
2000
1987
1988
1989
1990
1991
1992
1993
1980
1981
1982
1983
1984
1985
1986
2 4 6 8 10
numbers
age


NEFSC_Spring: fitted and observed index−at−age
obs
fit
numbers
2015
2016
2008
2009
2010
2011
2012
2013
2014
2001
2002
2003
2004
2005
2006
2007
1994
1995
1996
1997
1998
1999
2000
1987
1988
1989
1990
1991
1992
1993
1980
1981
1982
1983
1984
1985
1986
2
4
6
8


NEFSC_Fall: fitted and observed index−at−age
obs
fit
numbers
2011
2012
2013
2014
2015
2016
2005
2006
2007
2008
2009
2010
1999
2000
2001
2002
2003
2004
1993
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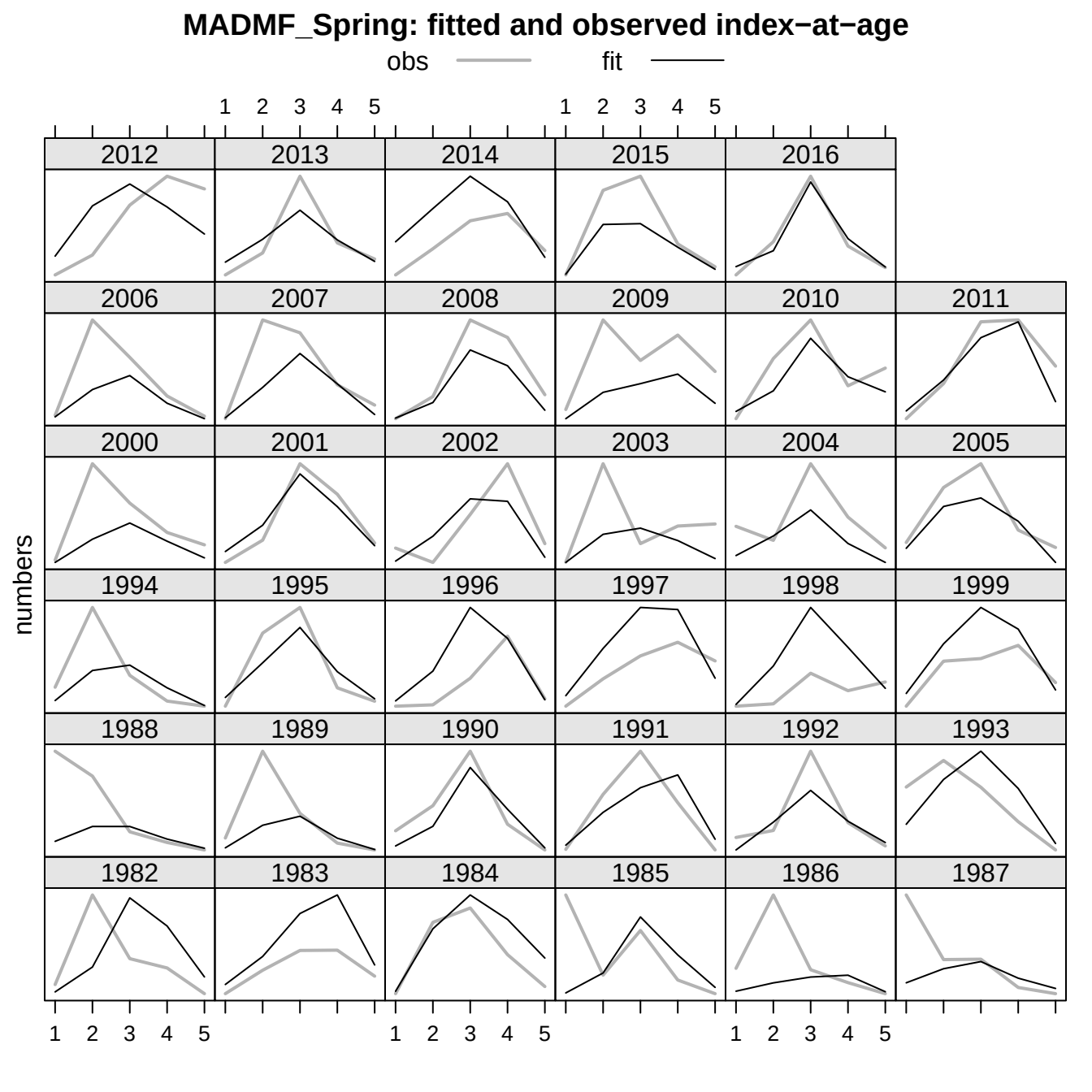
1992
1981
1982
1983
1984
1985
1986
2 3 4 5 6 7 8


MADMF_Spring: fitted and observed index−at−age
obs
fit
numbers
2012
2013
2014
2015
2016
2006
2007
2008
2009
2010
2011
2000
2001
2002
2003
2004
2005
1994
1995
1996
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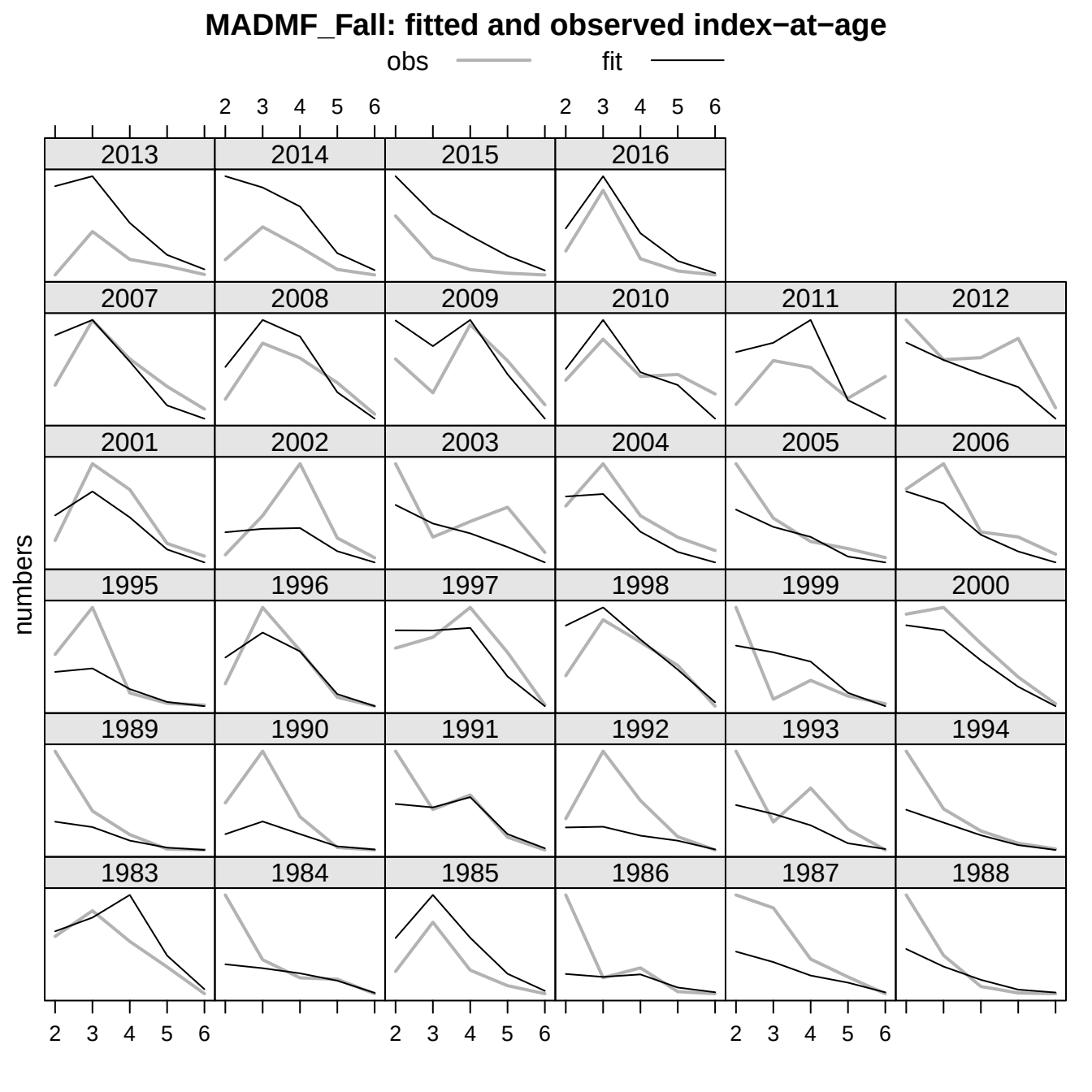
1992
1993
1982
1983
1984
1985
1986
1987
1 2 3 4 5


MADMF_Fall: fitted and observed index−at−age
obs
fit
numbers
2013
2014
2015
2016
2007
2008
2009
2010
2011
2012
2001
2002
2003
2004
2005
2006
1995
1996
1997
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2000
1989
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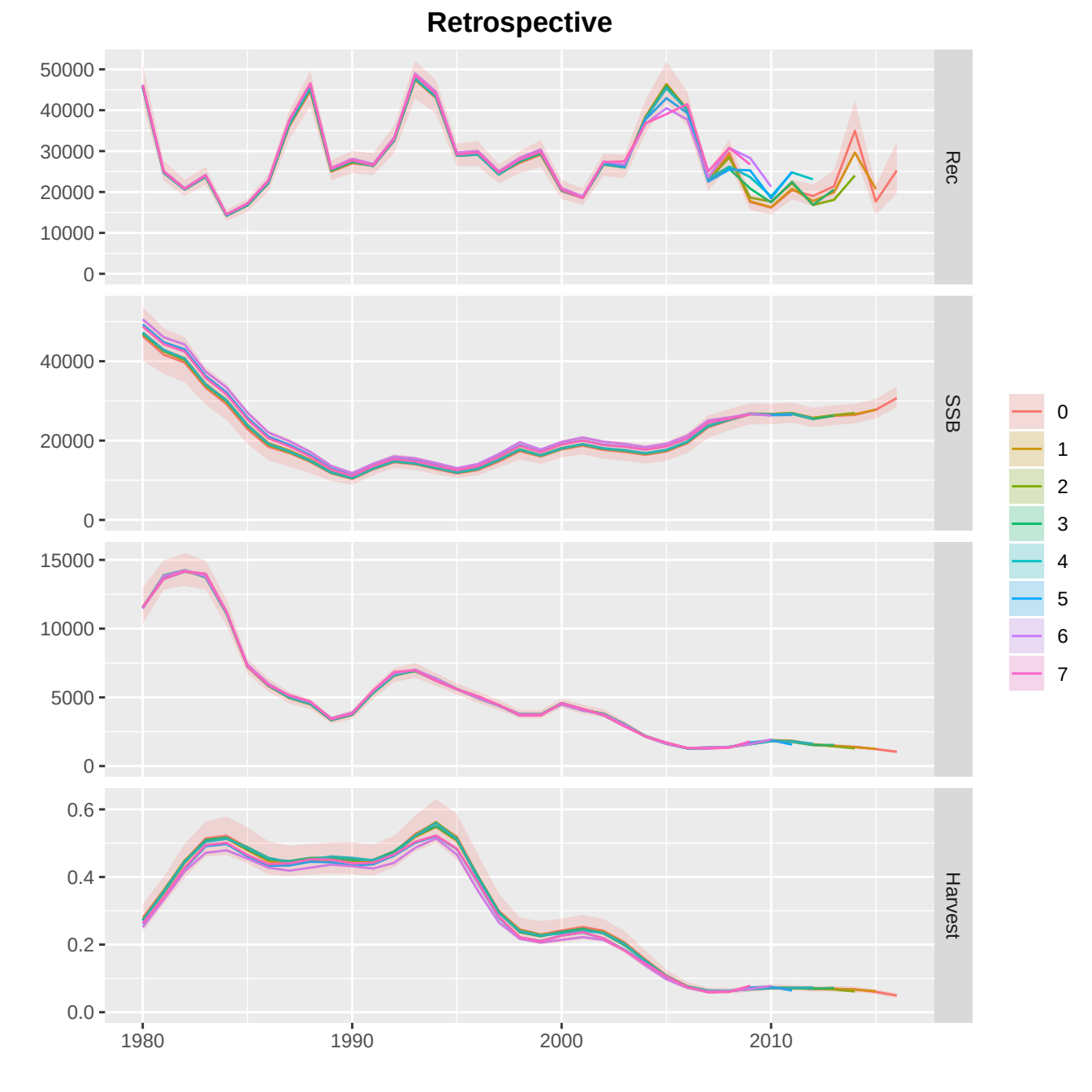
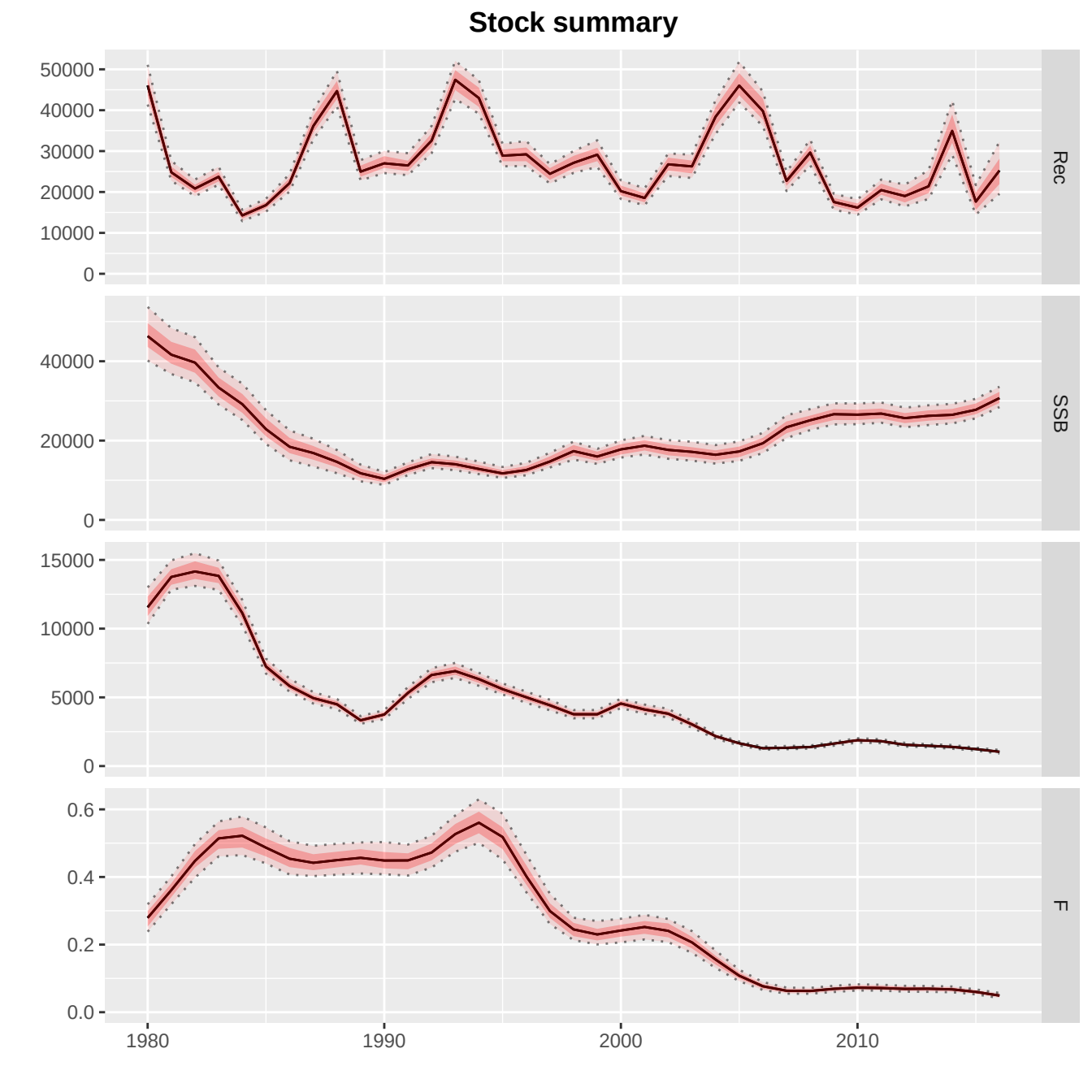
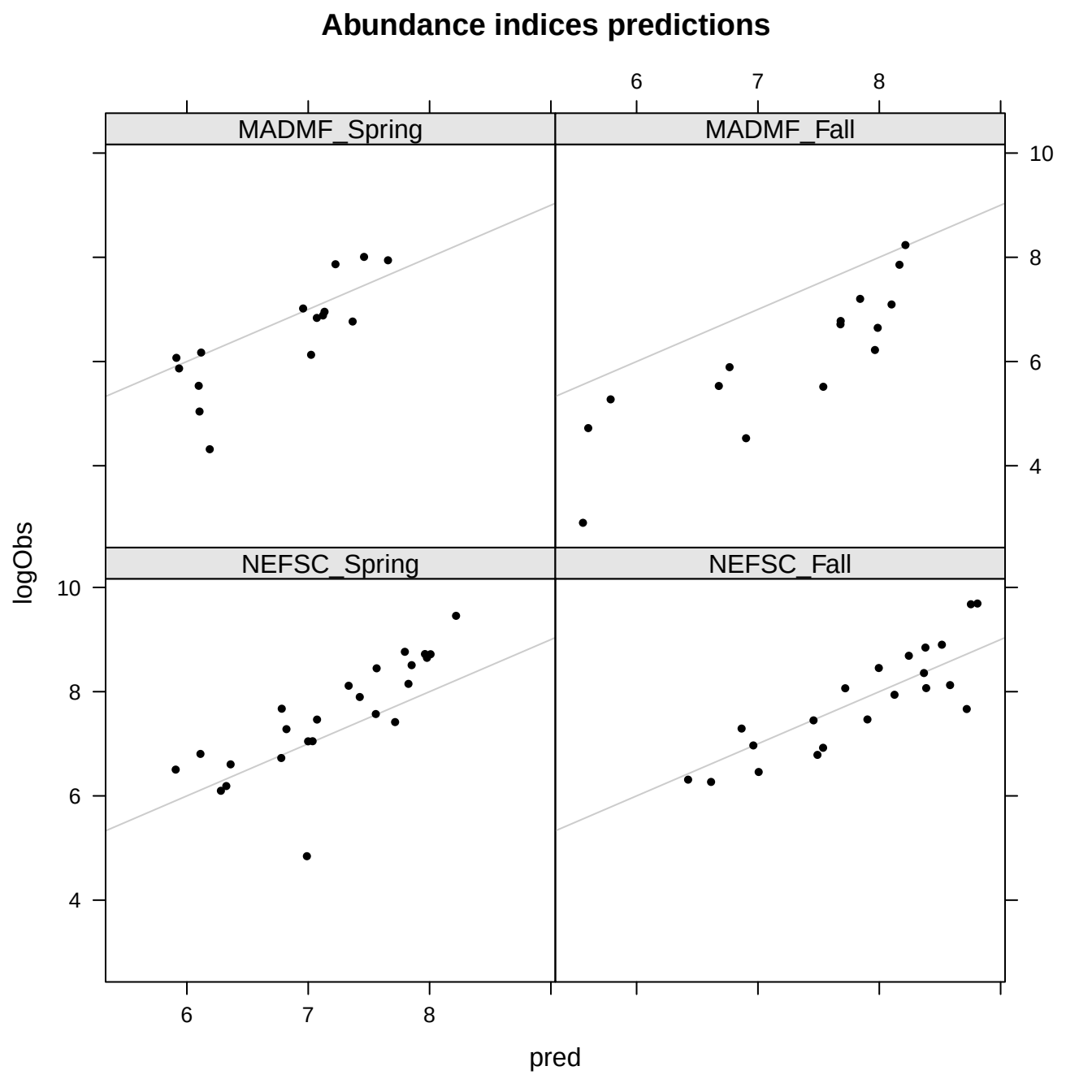
1994
1983
1984
1985
1986
1987
1988
2 3 4 5 6


Retrospective
Rec
SSB
Harvest
0
1
2
3
4
5
6
7
50000
40000
30000
20000
10000
0
15000
5000
0.6
0.4
0.2
0.0
1980
1990
2000
2010


Stock summary
Rec
SSB
F
50000
40000
30000
20000
10000
0
15000
5000
0.6
0.4
0.2
0.0
1980
1990
2000
2010


Abundance indices predictions
MADMF_Spring
MADMF_Fall
NEFSC_Spring
NEFSC_Fall
logObs
pred
6
7
8
10
8
6
4