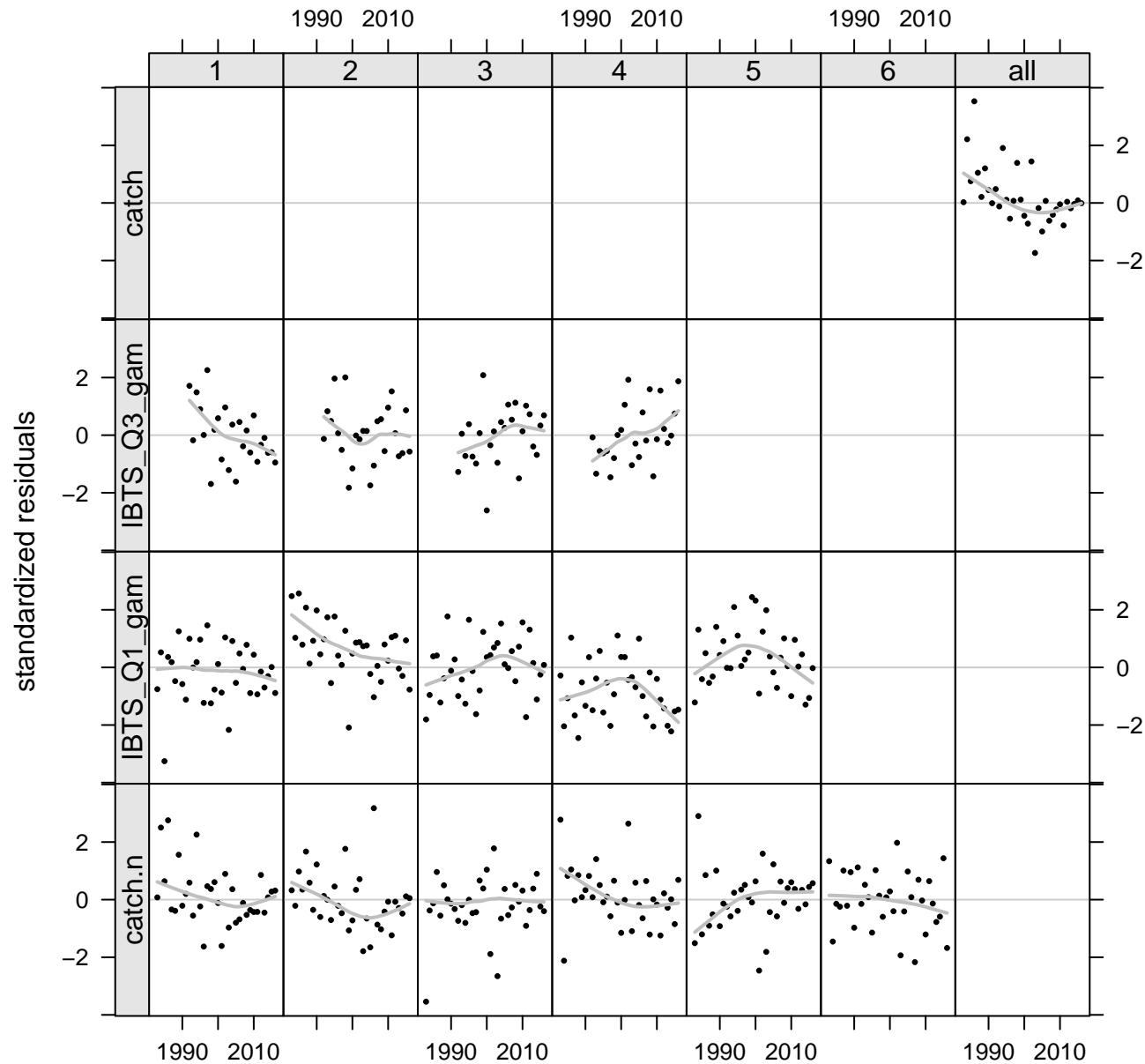
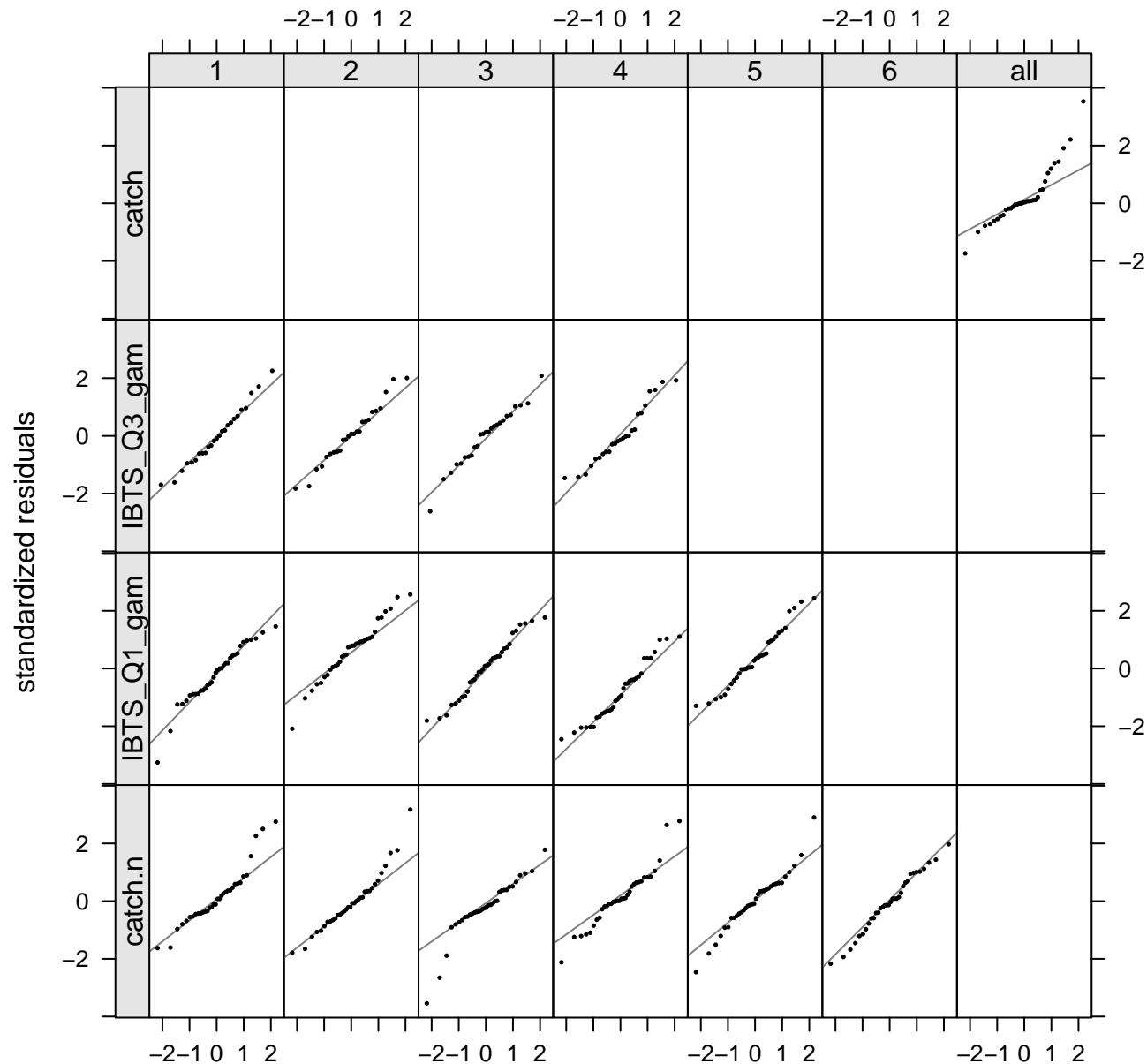


log residuals of catch and abundance indices by age



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

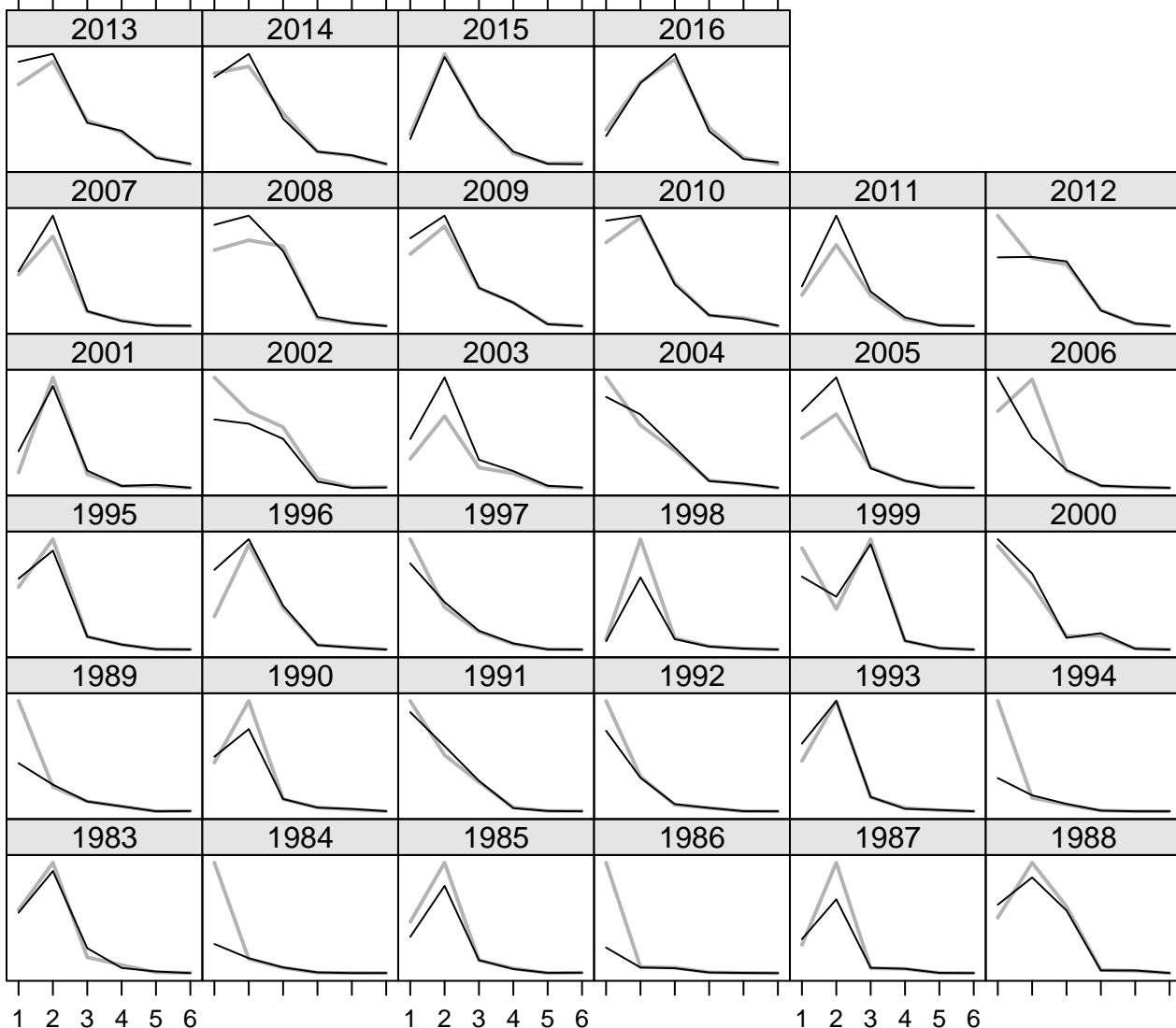


fitted and observed catch-at-age

obs ——— fit ———

1 2 3 4 5 6 1 2 3 4 5 6

numbers



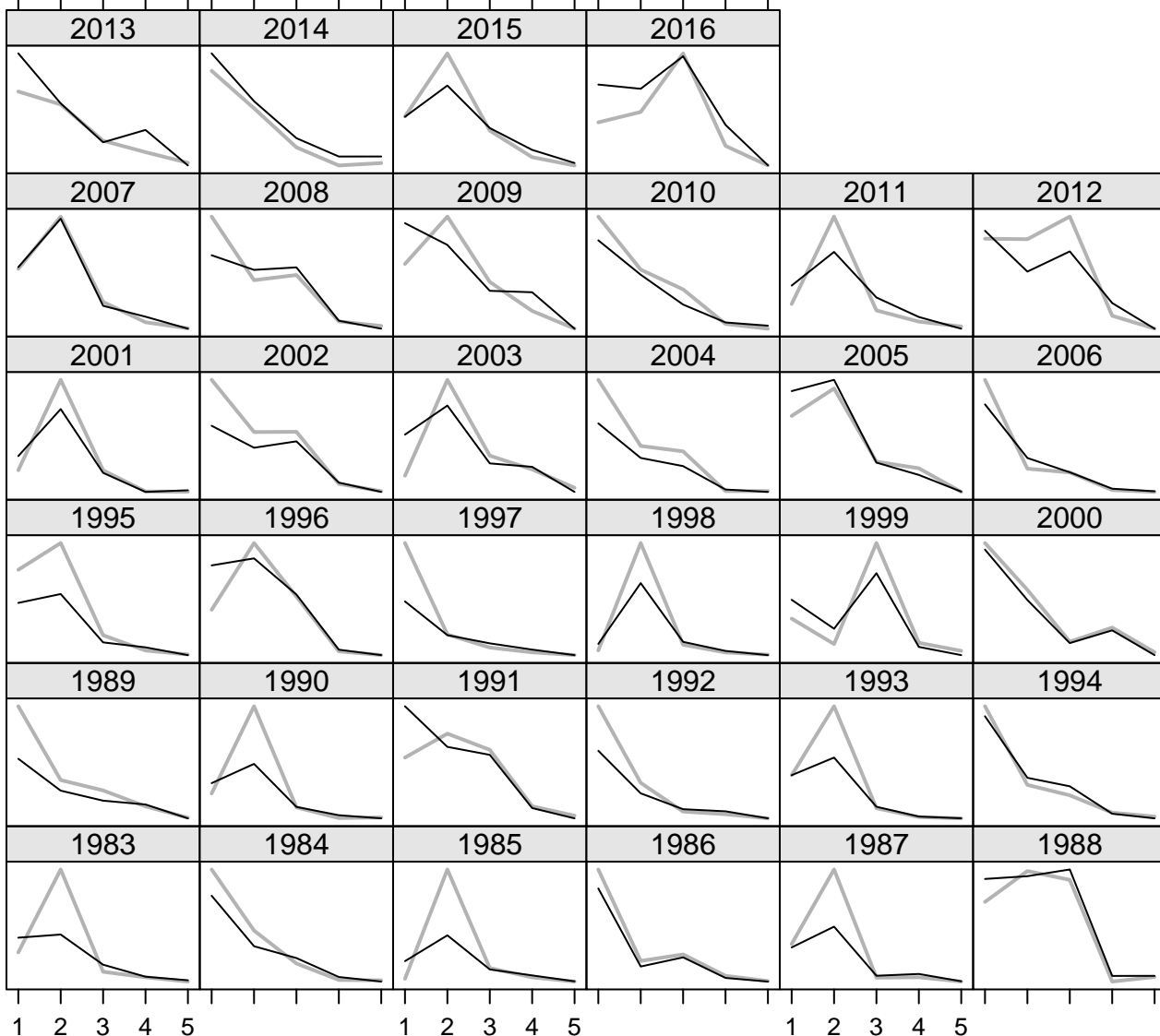
age

IBTS_Q1_gam: fitted and observed index-at-age

obs ——— fit ———

1 2 3 4 5 1 2 3 4 5

numbers



IBTS_Q3_gam: fitted and observed index-at-age

obs — fit

1.0 2.0 3.0 4.0

1.0 2.0 3.0 4.0

2012

2013

2014

2015

2016

2007

2008

2009

2010

2011

2002

2003

2004

2005

2006

1997

1998

1999

2000

2001

1992

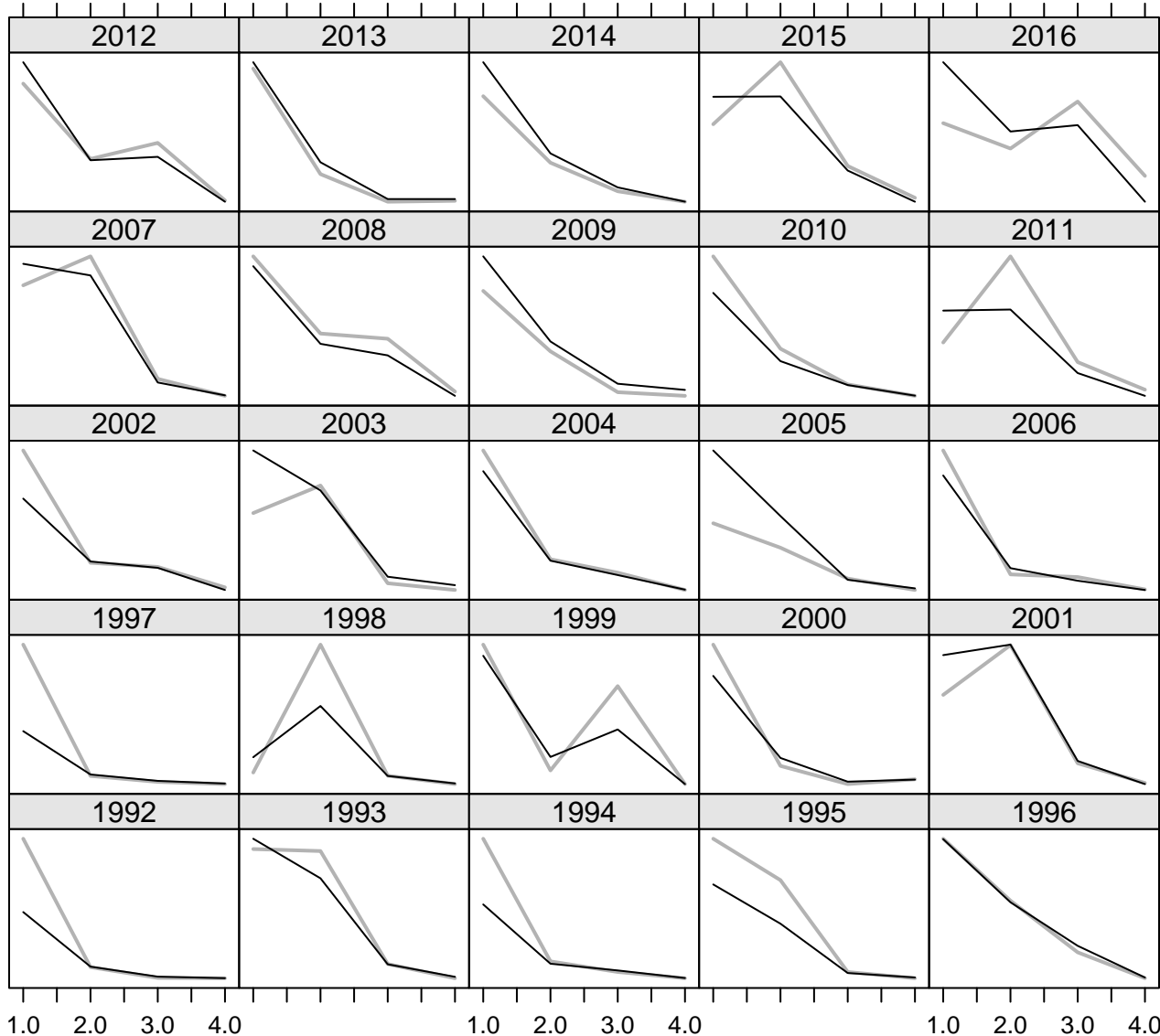
1993

1994

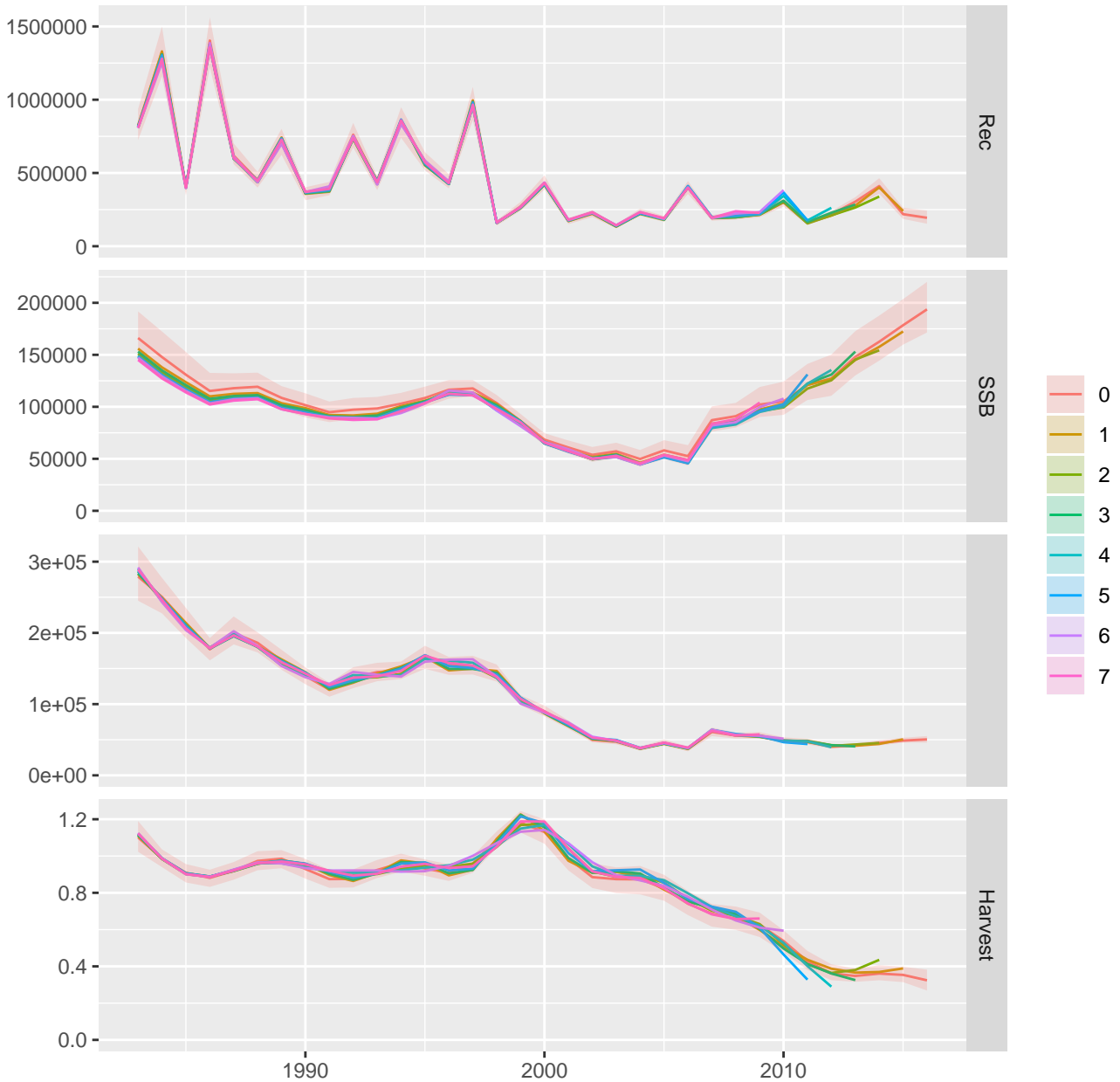
1995

1996

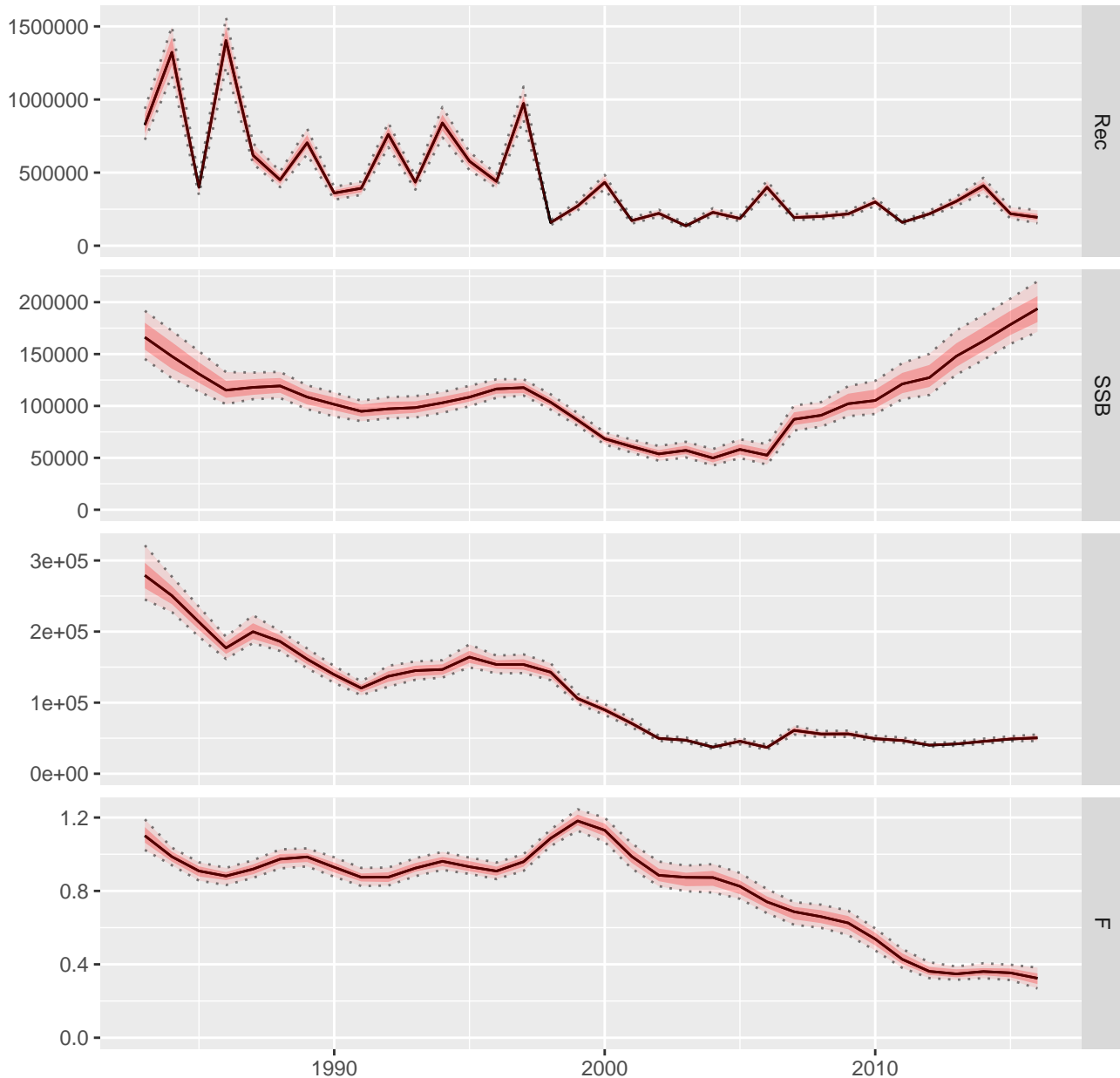
numbers



Retrospective



Stock summary



Abundance indices predictions

