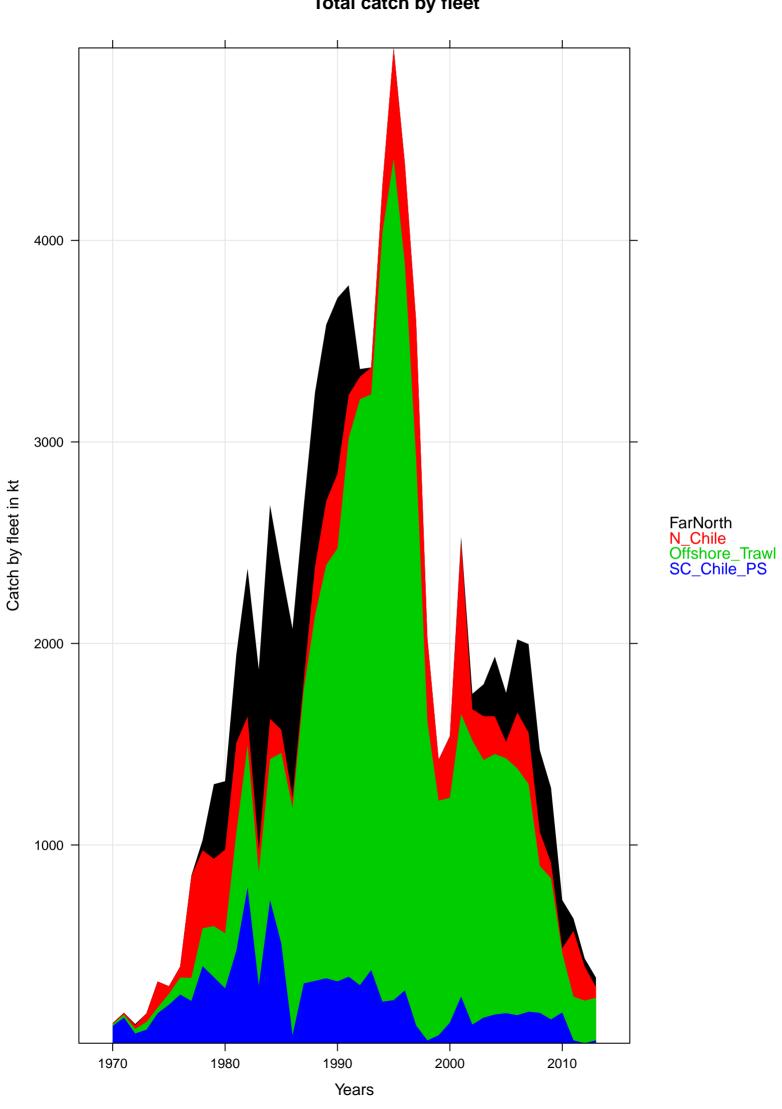
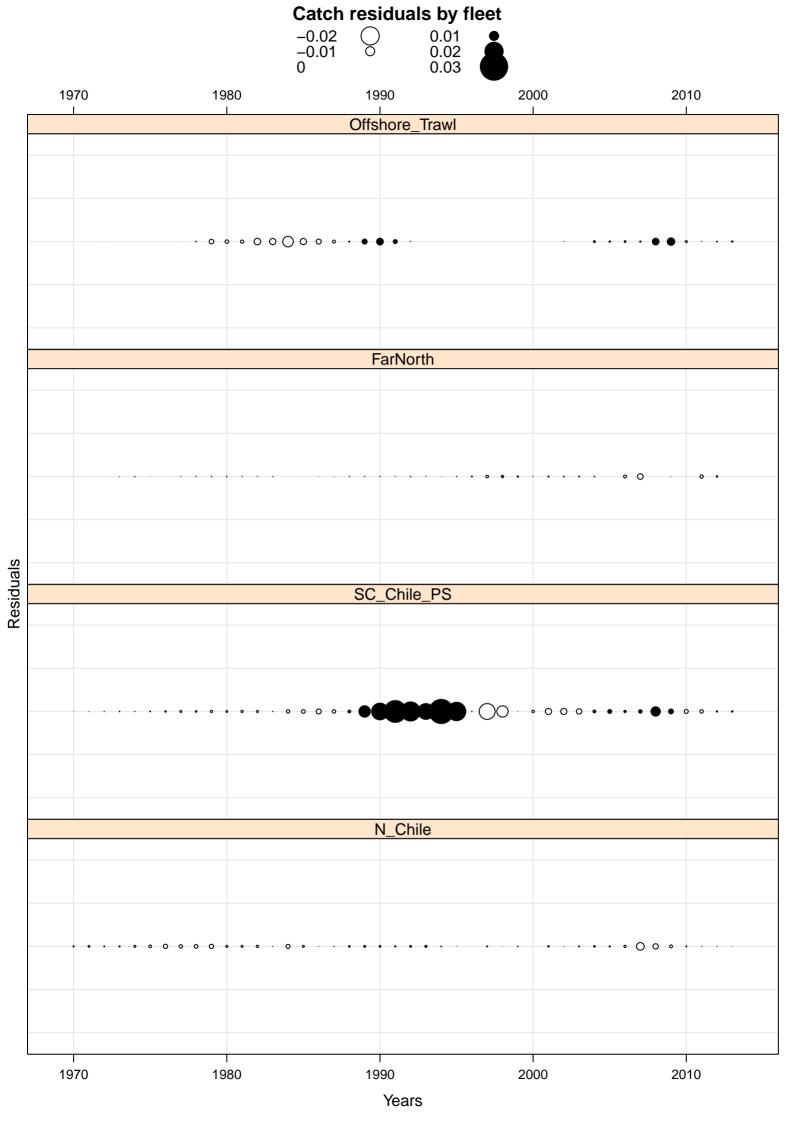
Fit of catch data

Total catch

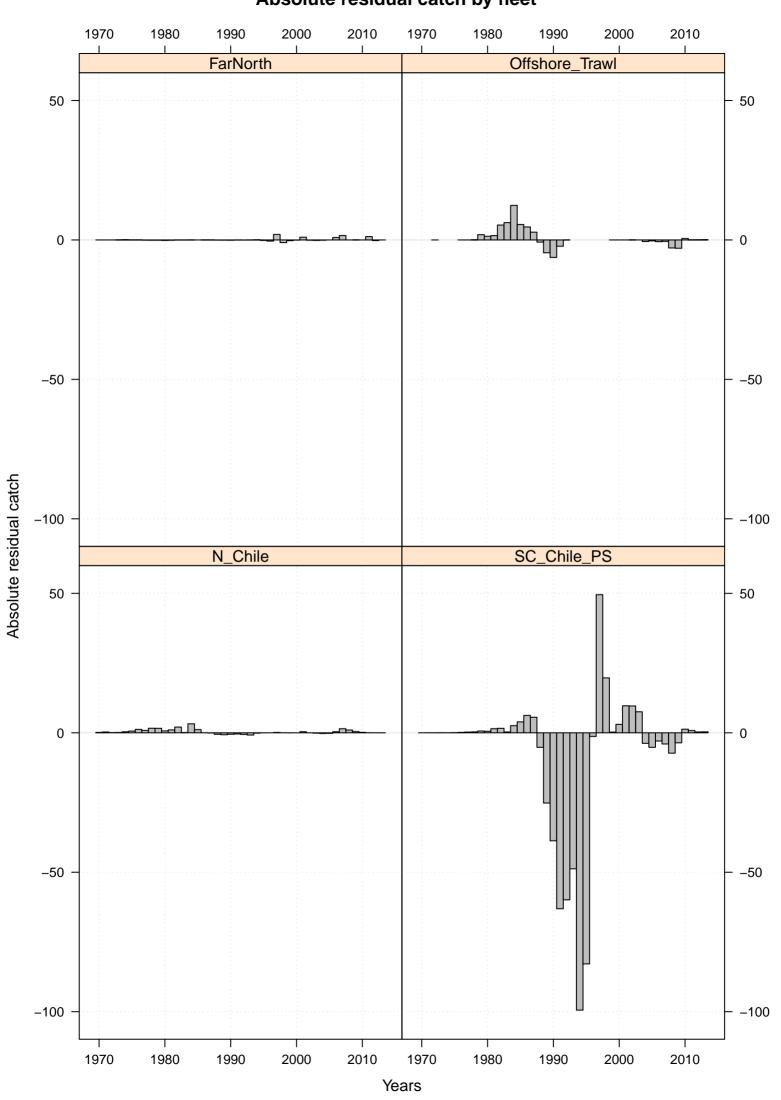


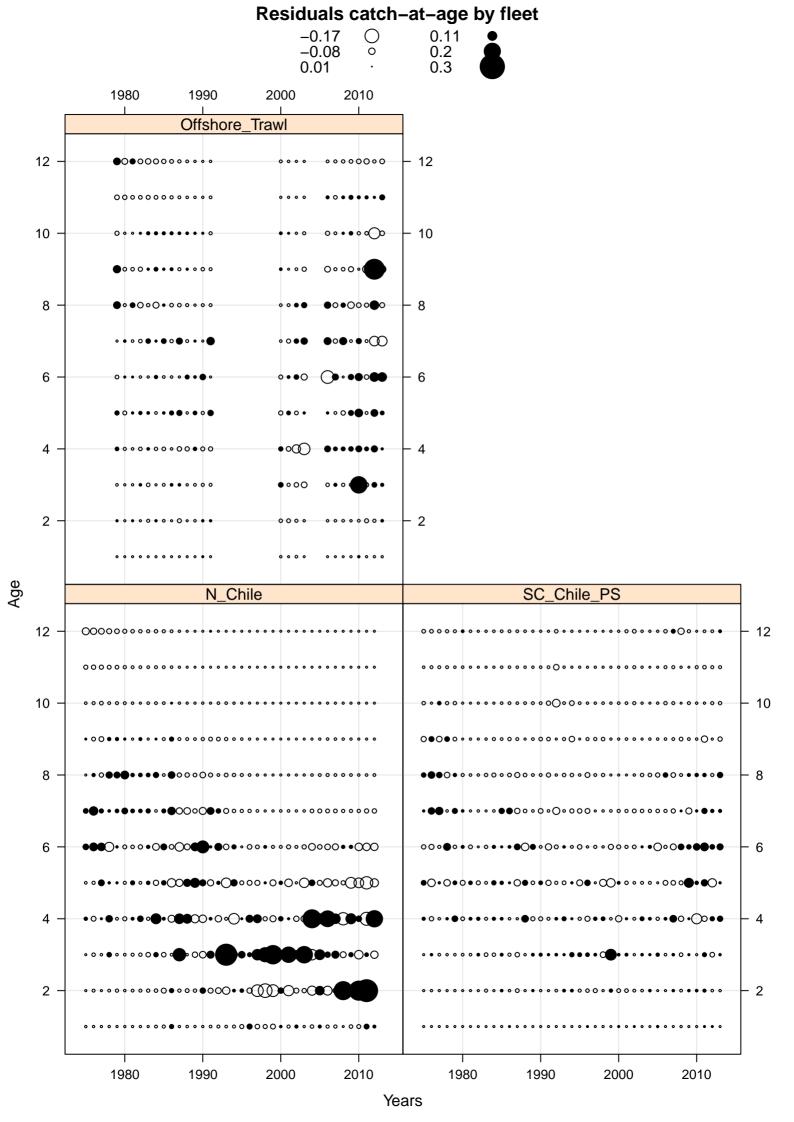
Total catch by fleet

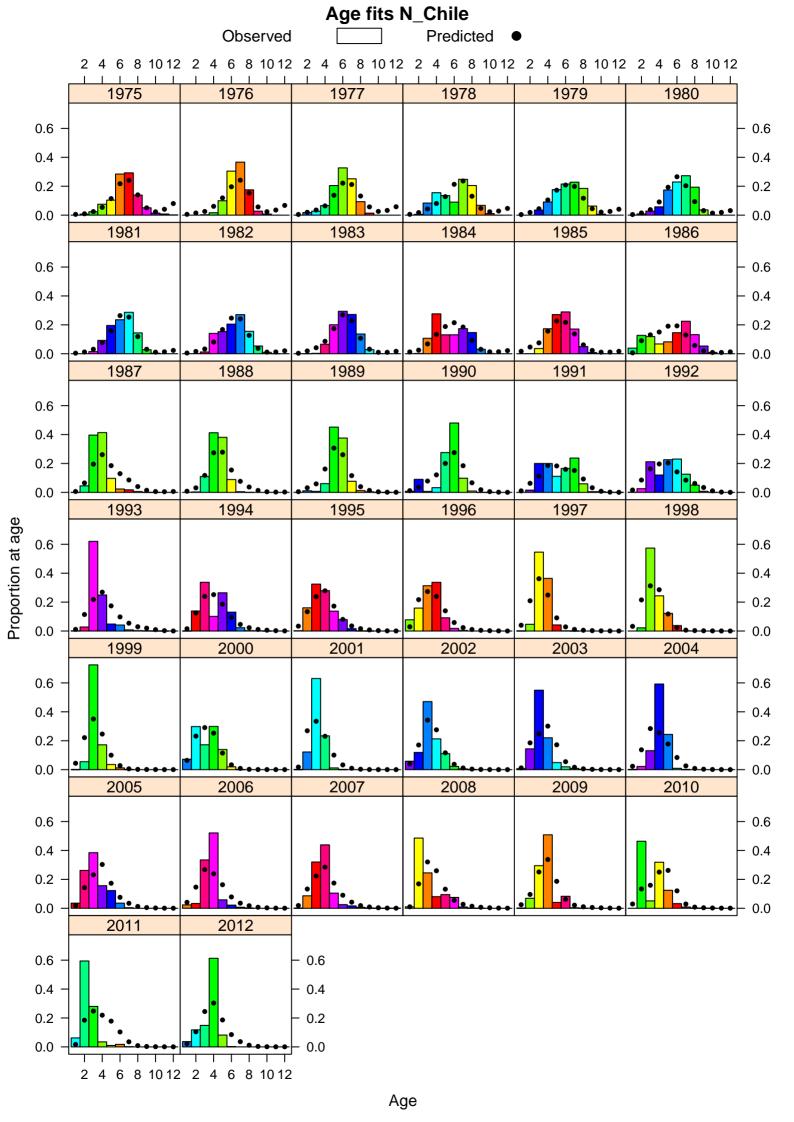




Absolute residual catch by fleet

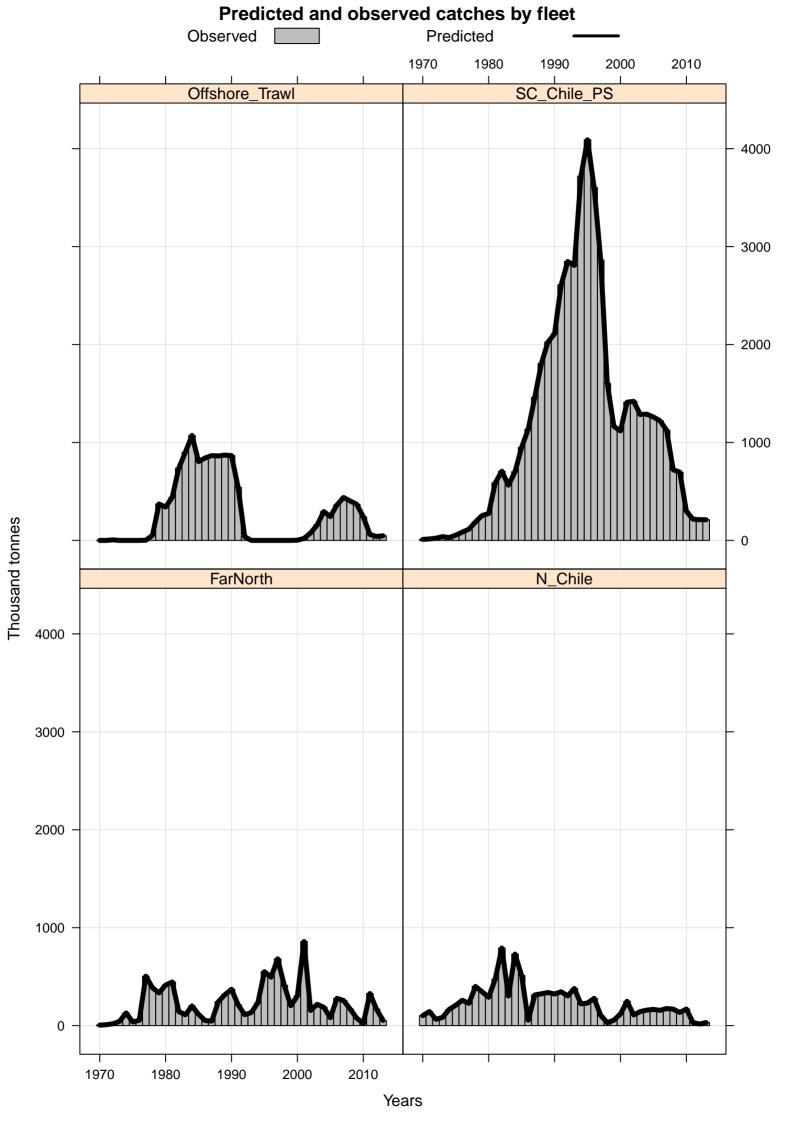




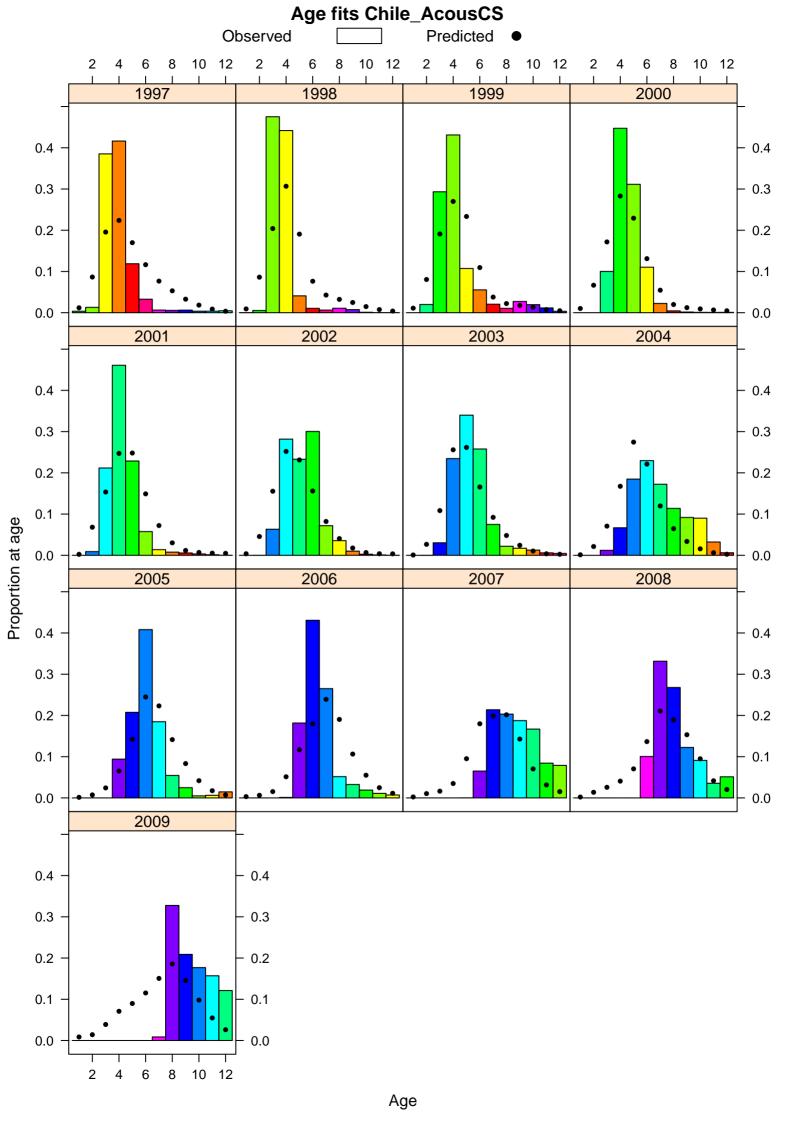


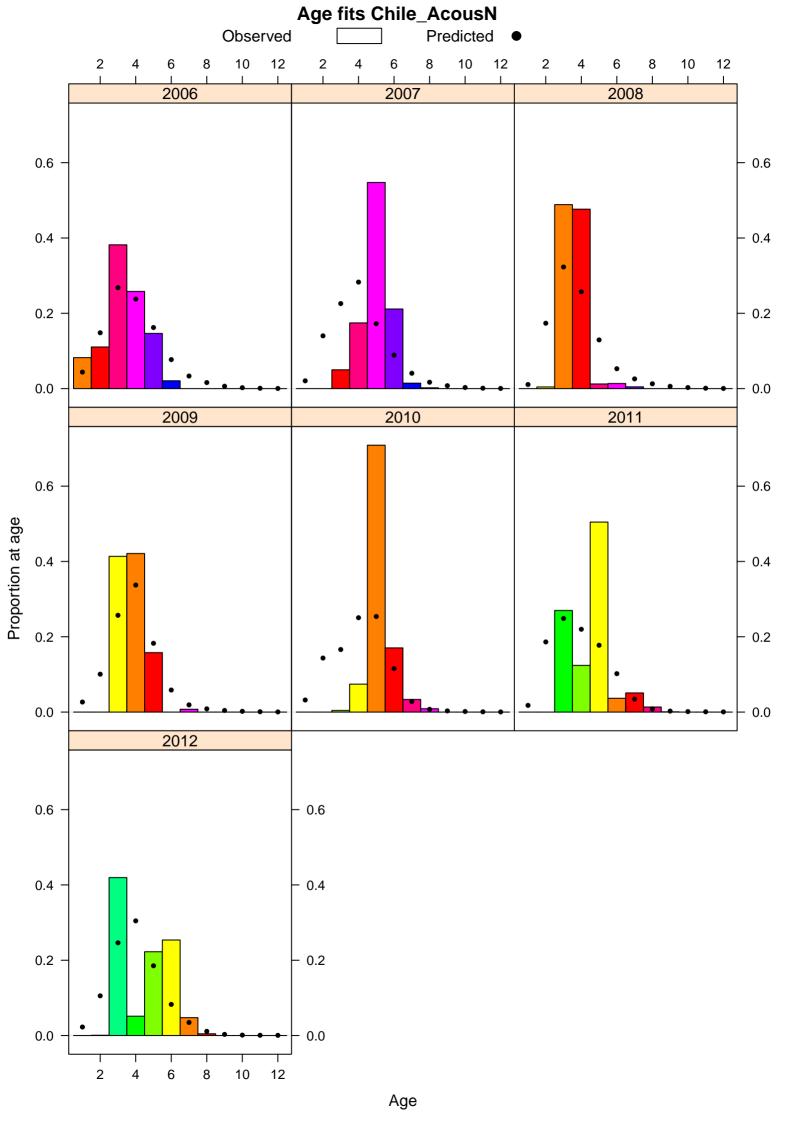
Age fits SC_Chile_PS Observed Predicted 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 2 4 6 8 10 12 2 4 6 8 10 12 1976 1977 1978 1980 1975 1979 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0.0 0.0 1982 1981 1983 1984 1985 1986 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0.0 0.0 1990 1987 1989 1991 1992 1988 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0.0 0.0 1994 1997 1998 1993 1995 1996 Proportion at age 0.4 0.4 0.3 0.3 0.2 0.2 0.1 - 0.1 0.0 0.0 2000 2001 2002 2003 1999 2004 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0.0 0.0 2005 2006 2007 2009 2010 2008 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0.0 0.0 2011 2012 2013 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0.0 0.0 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 Age

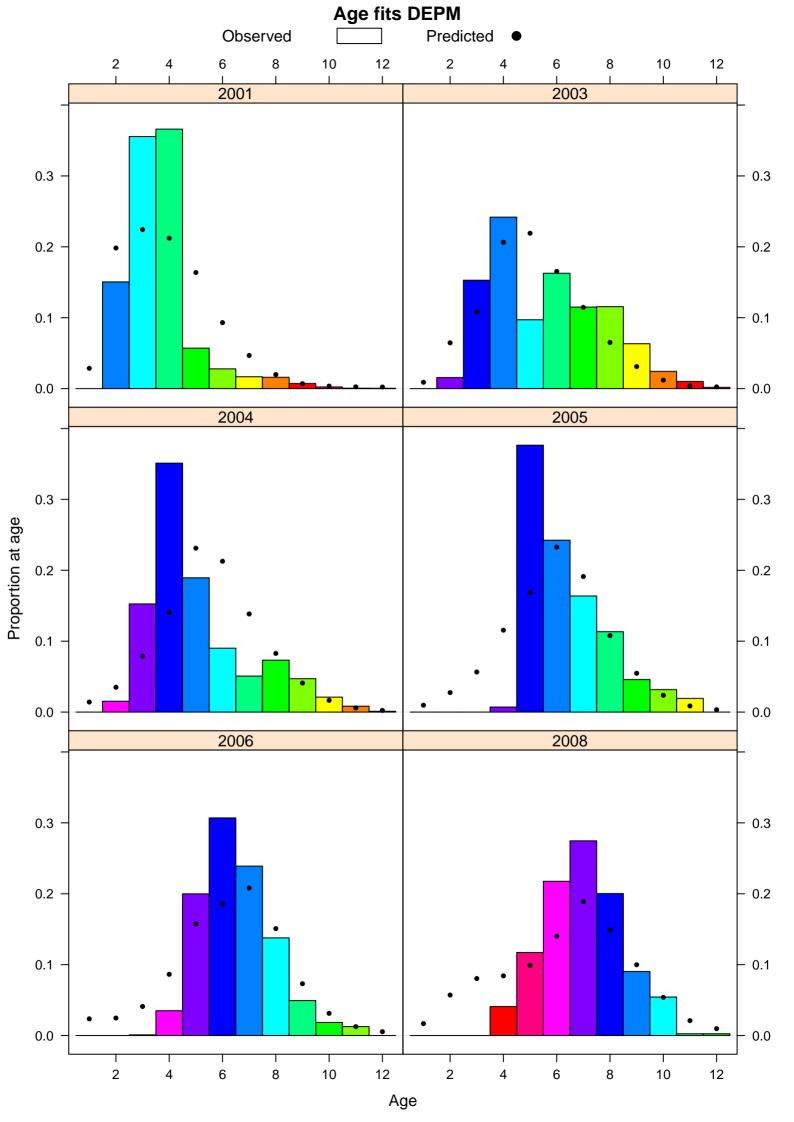
Age fits Offshore_Trawl Observed Predicted 4 6 8 10 12 8 10 12 10 12 2 6 8 10 12 2 6 8 10 12 1979 1980 1981 1982 1983 0.5 0.5 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0.0 0.0 1984 1985 1986 1987 1988 0.5 0.5 0.4 - 0.4 0.3 - 0.3 0.2 0.2 0.1 0.1 0.0 0.0 1989 1990 1991 2000 2001 0.5 0.5 Proportion at age 0.4 0.4 0.3 - 0.3 0.2 0.2 0.1 0.1 0.0 0.0 2002 2003 2006 2007 2008 0.5 0.5 0.4 0.4 0.3 - 0.3 0.2 0.2 0.1 0.1 0.0 0.0 2013 2009 2010 2011 2012 0.5 0.5 0.4 0.4 0.3 0.3 0.2 0.2 0.1 0.1 0.0 0.0 2 6 8 10 12 2 6 8 10 12 6 2 8 10 12 4 6 8 10 12 4 2 4 6 8 10 12 4 4 Age

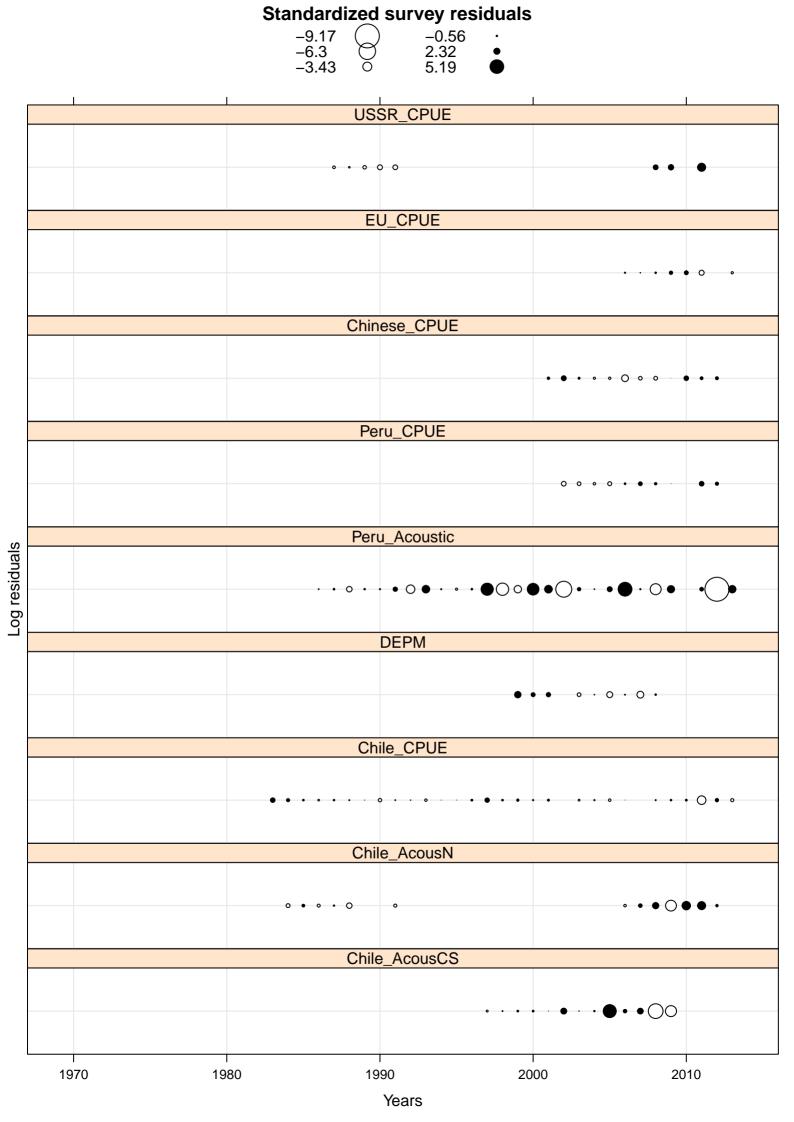


Fit of survey data

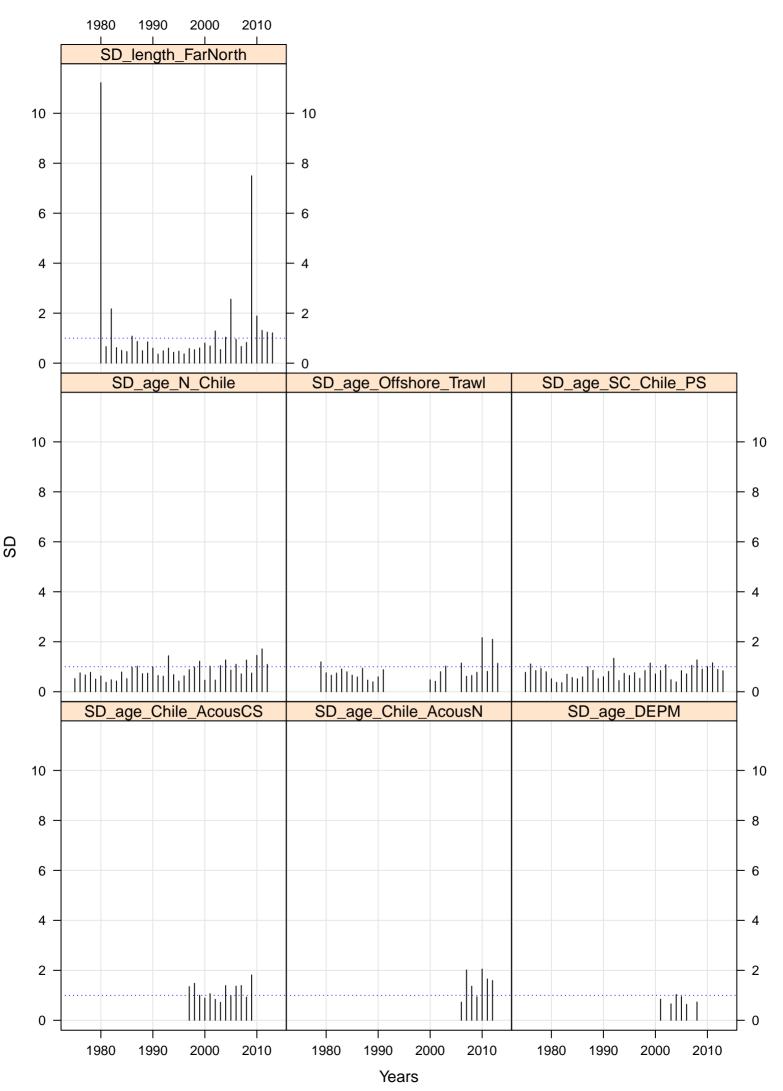






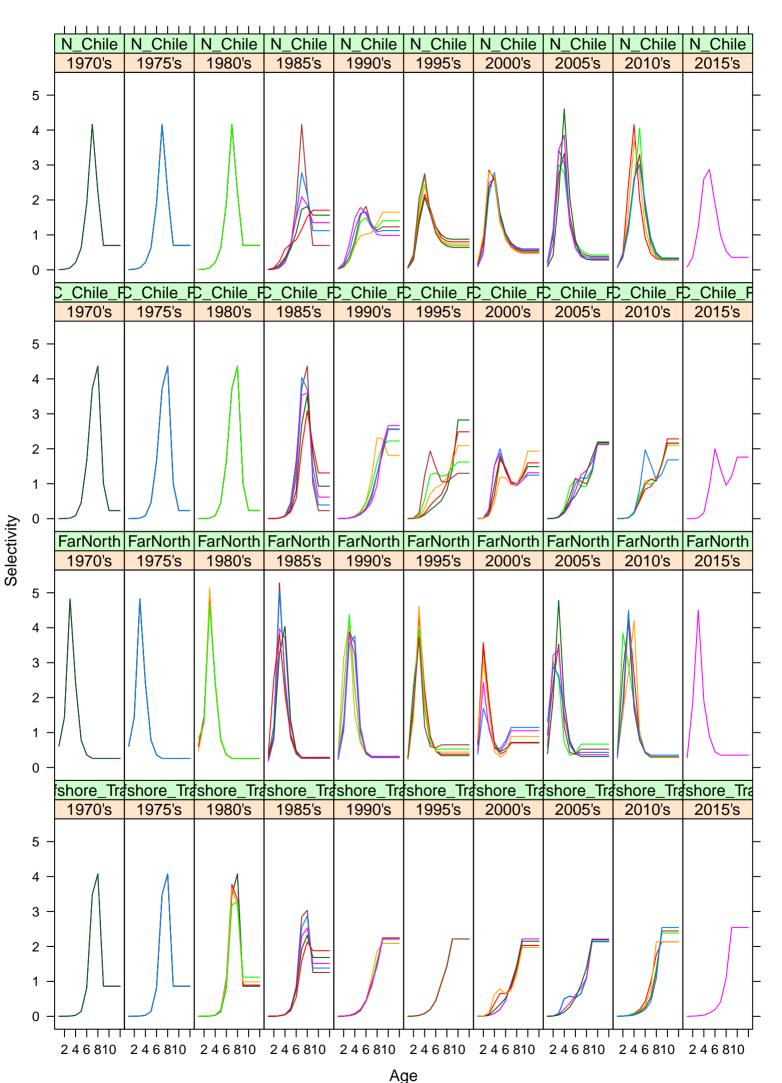


SD per input series

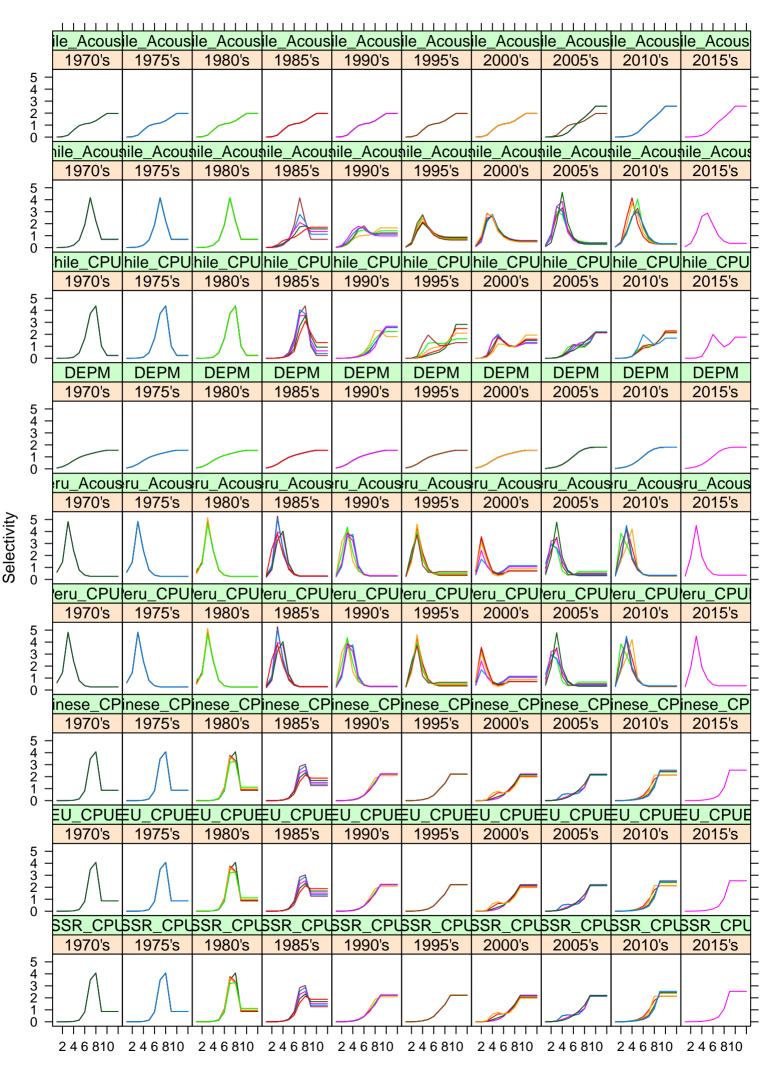


Fleet & Survey sel & F

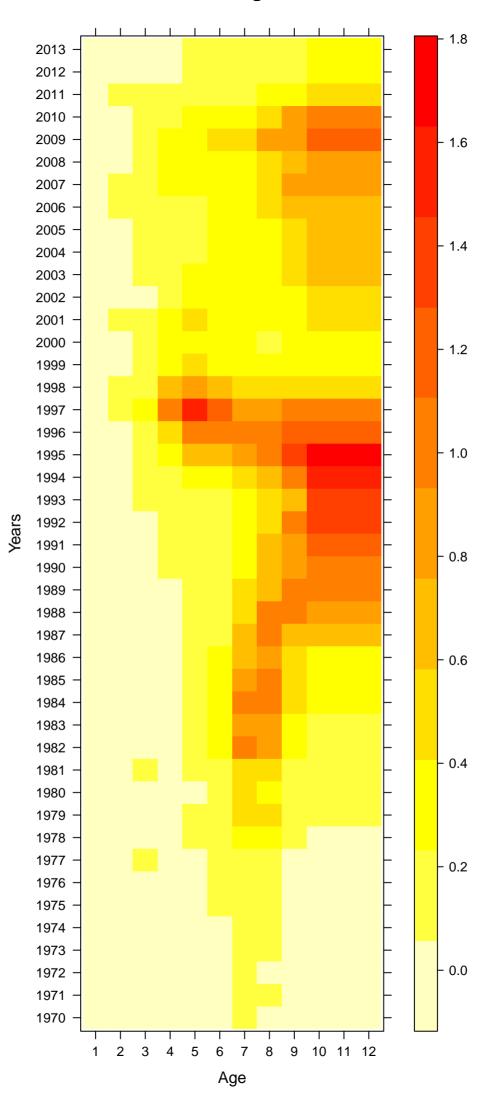
Selectivity of the Fishery by Pentad



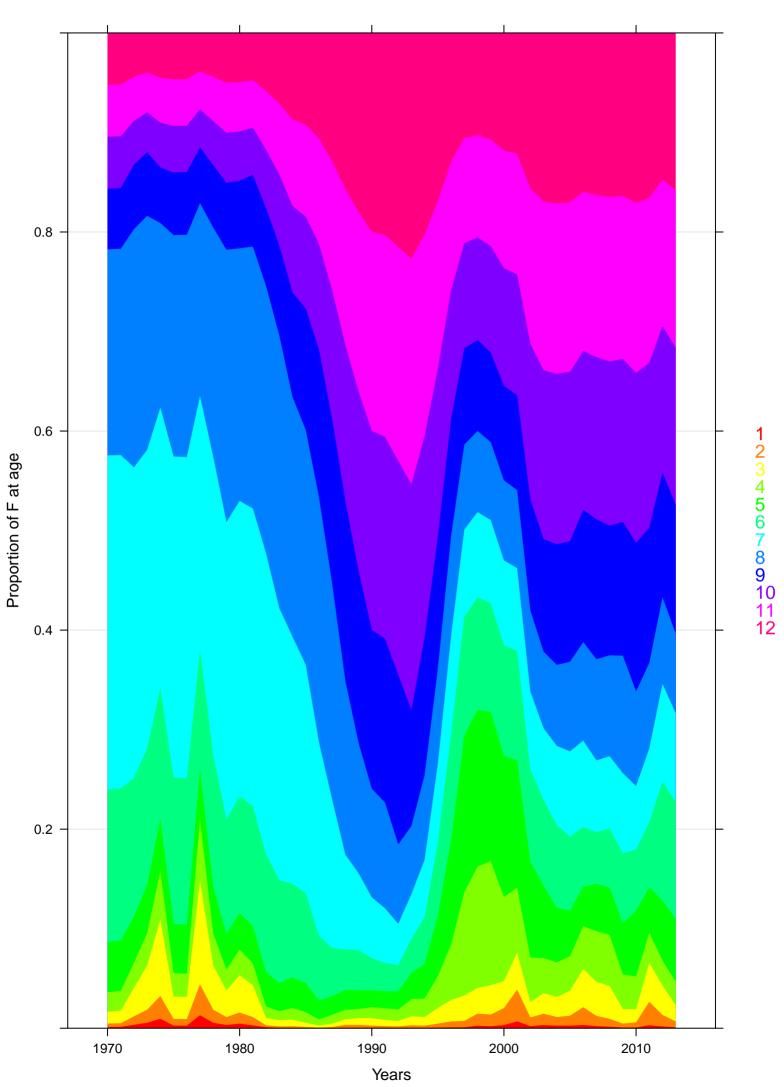
Selectivity of the survey by Pentad

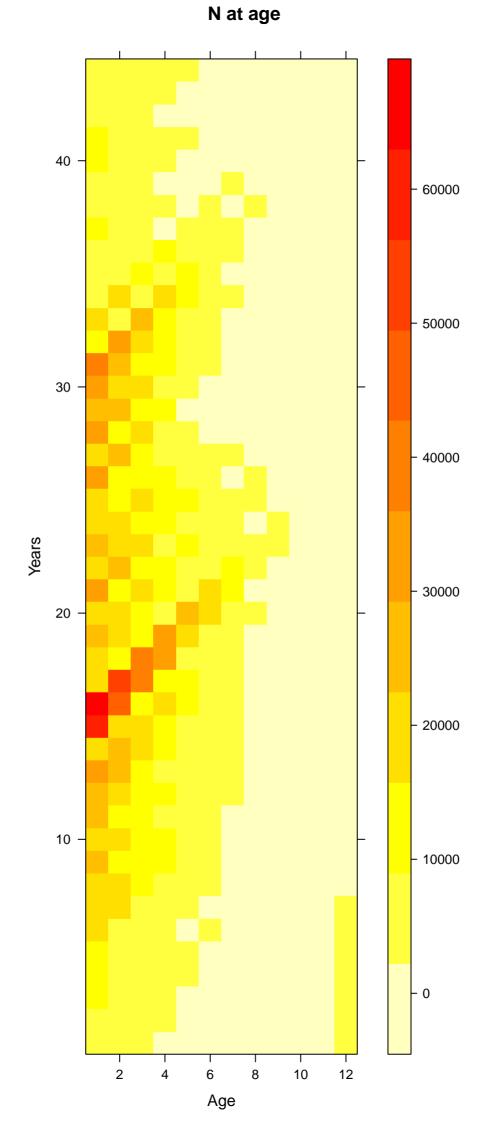


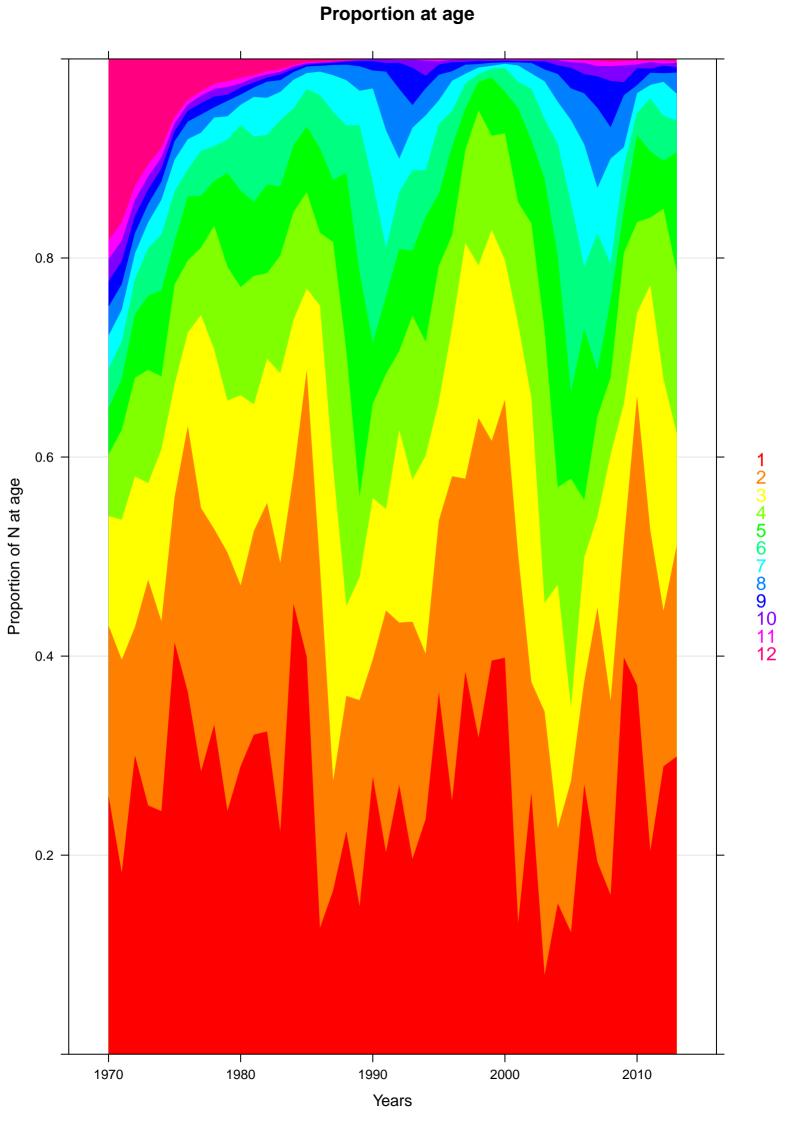








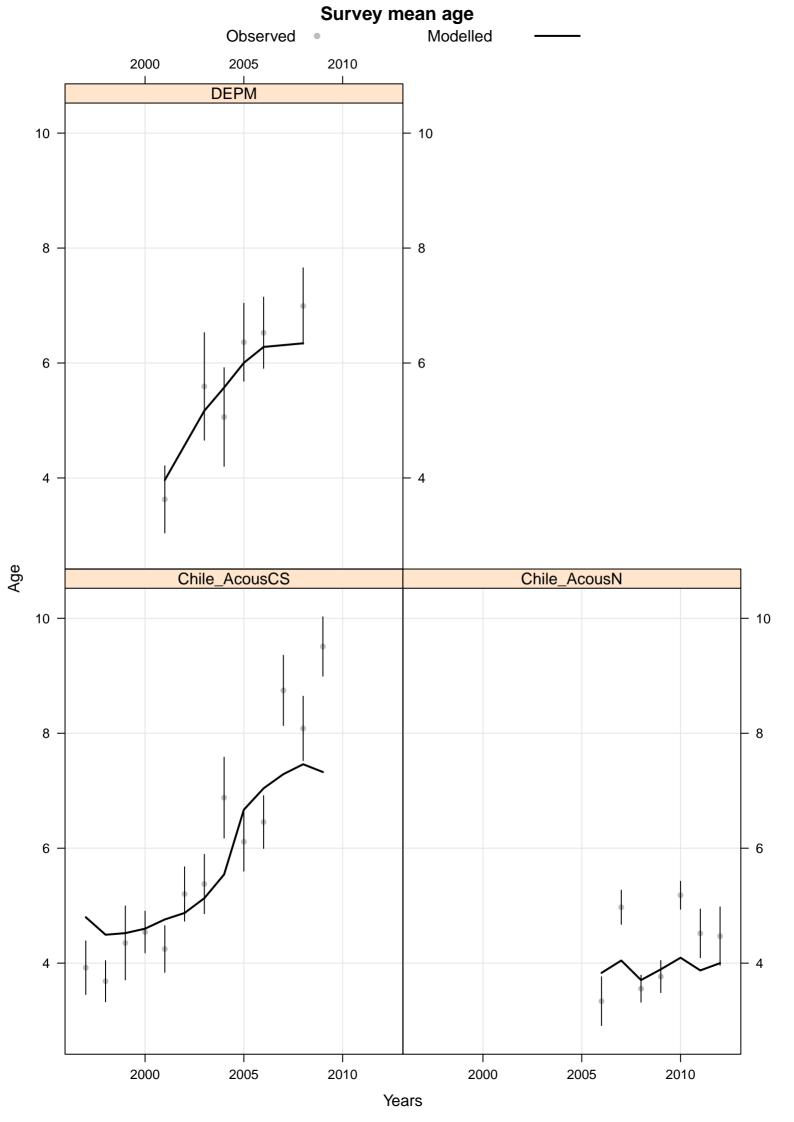




Modelled Observed SC_Chile_PS - 10 - 8 - 2 Age N_Chile Offshore_Trawl 10 8 6 4 2 1980 1990 2000 2010

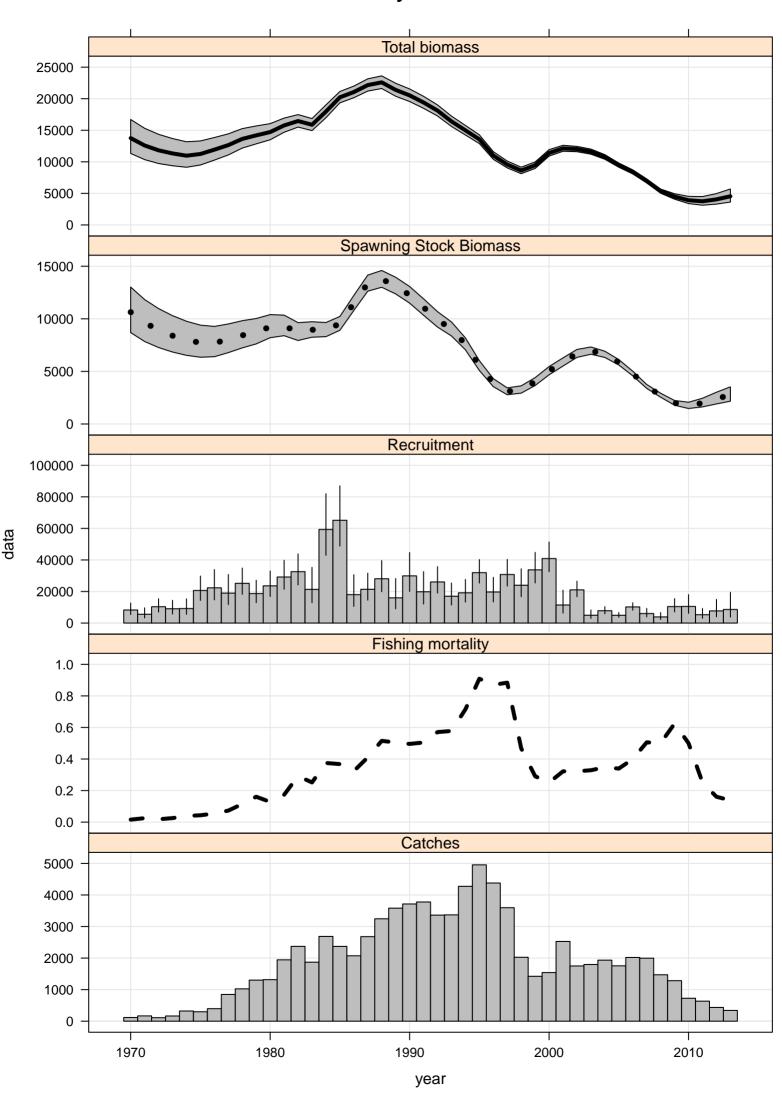
Years

Fishery mean age



Stock summary

Summary sheet



Uncertainty of key parameters 0.4 0.3 SSB TSB R \gtrsim 0.2 0.1 0.0

1960

1970

1980

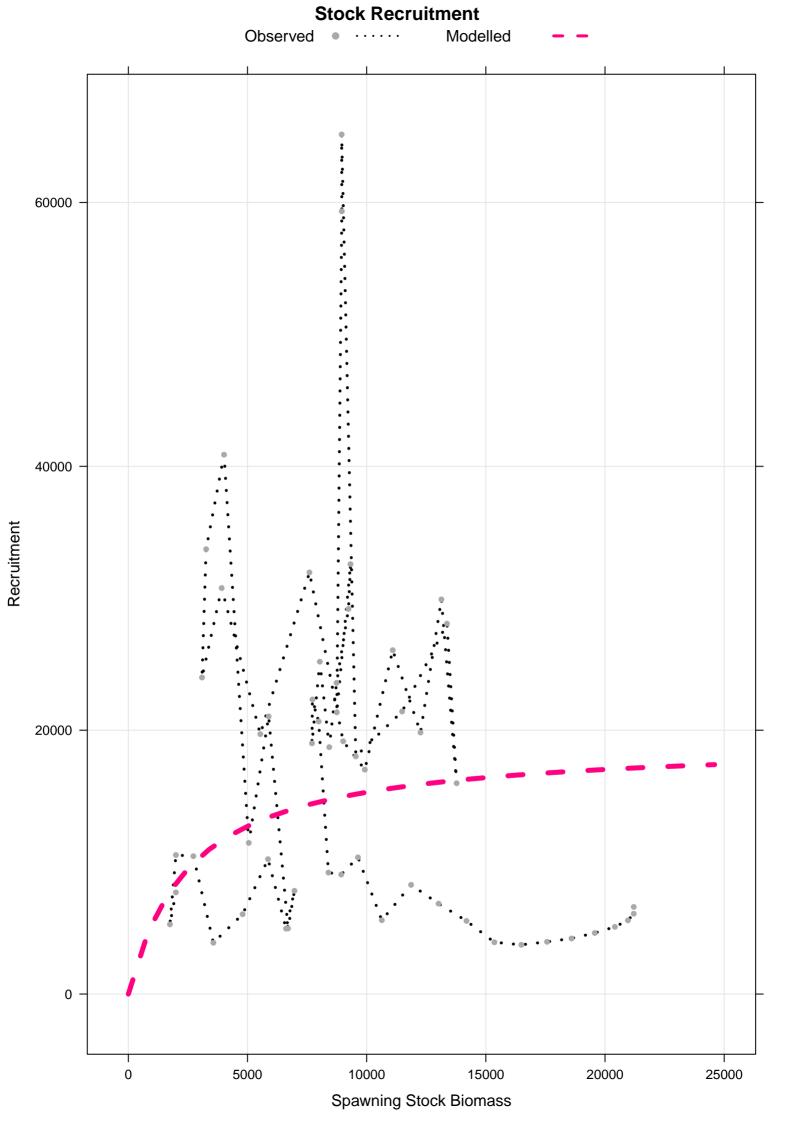
1990

years

2000

2010

Mature - Immature fish Immature Mature 20000 15000 -Biomass in kt 10000 5000 0 -2000 1990 2010 1970 1980 Years



Fished vs. unfished biomass Fished Unfished Total biomass Years

Projections

SSB prediction F2012 SQ F2012 0.75x F2012 0.5x F2012 0.25x F2012 0x 25000 -20000 -Spawning Stock Biomass 15000 10000 5000 0 2005 2030 2010 2015 2020 2025 Years

