

Plots created using the 'r4ss' package in R

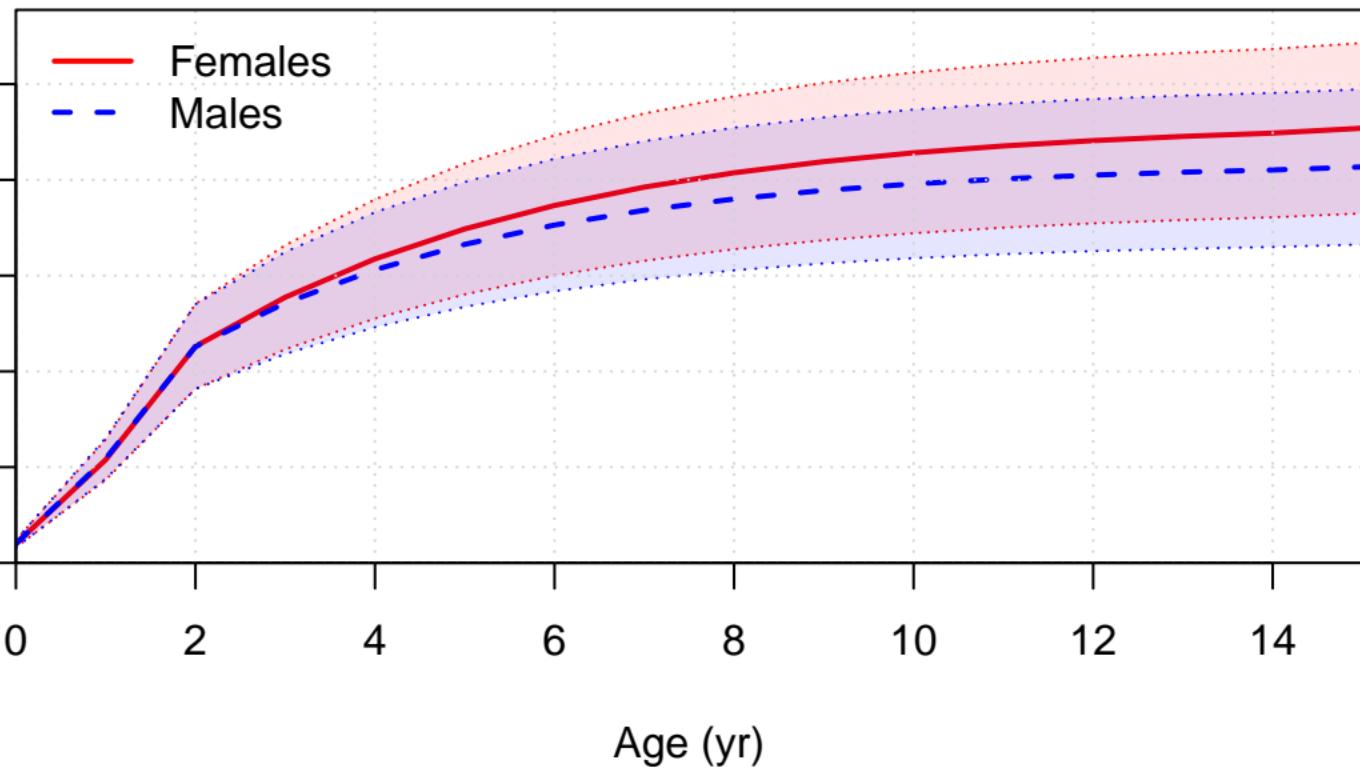
Stock Synthesis version: 3.30.20.0

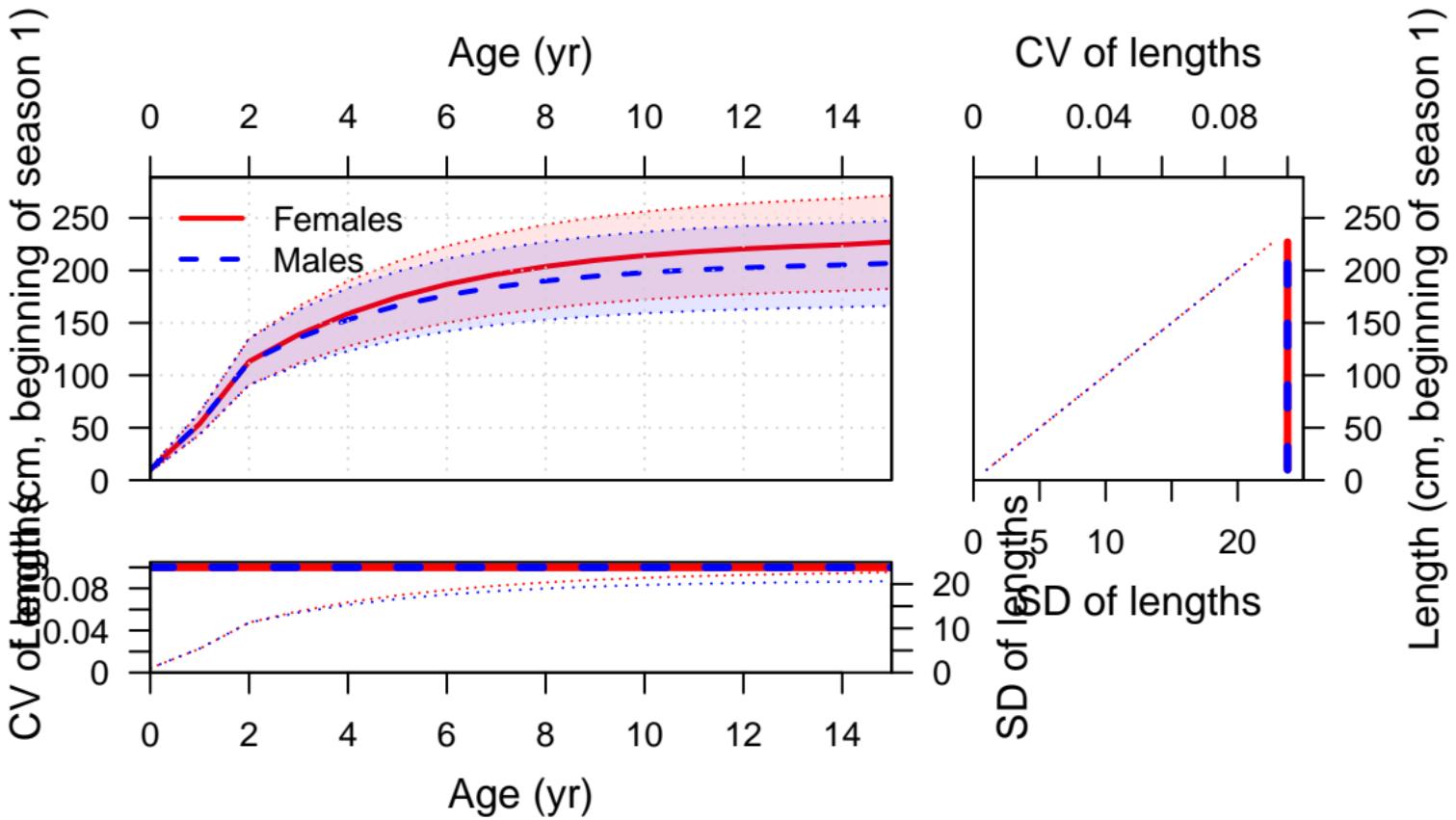
StartTime: Fri Apr 14 10:33:32 2023

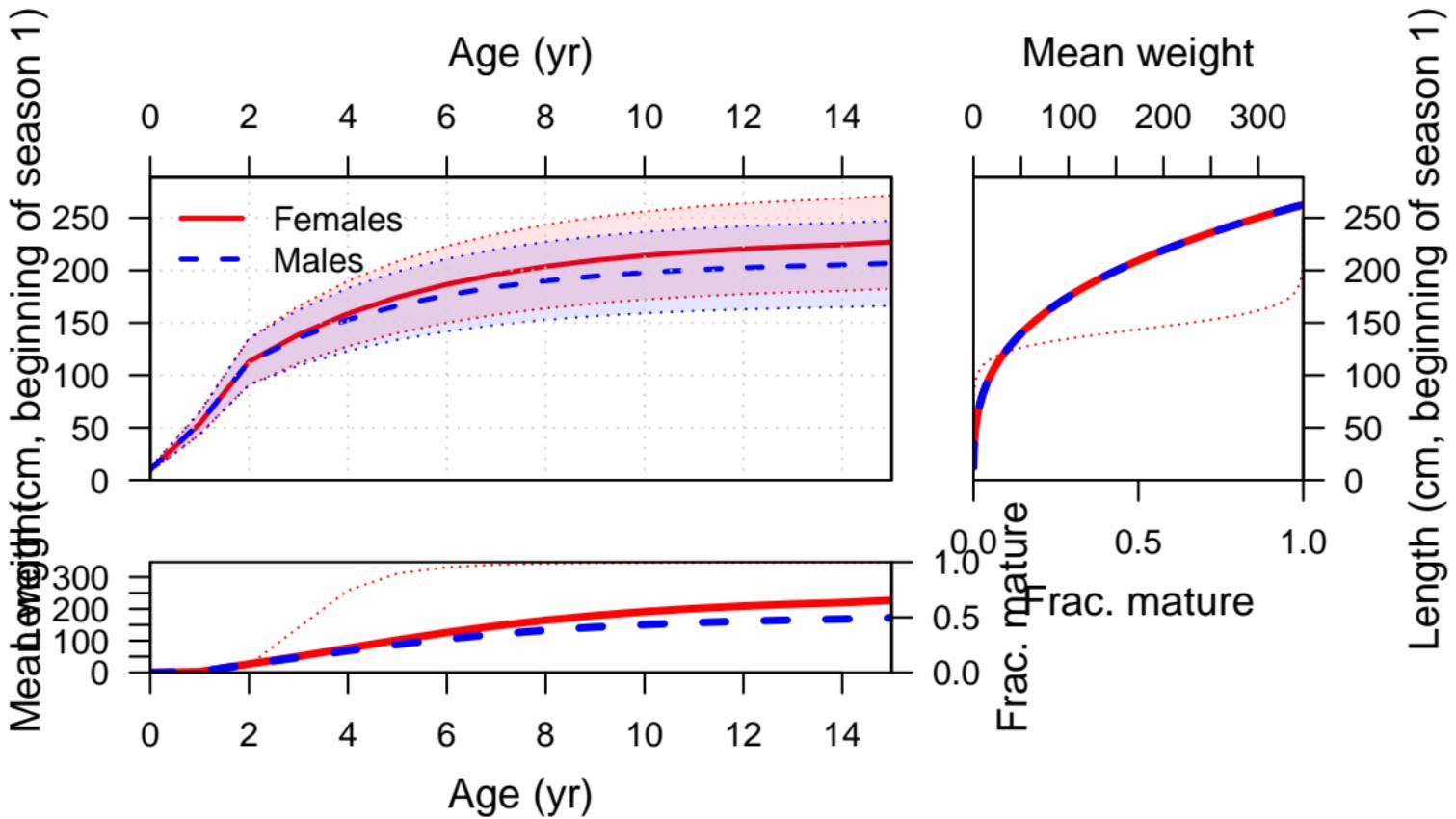
Data\_File: swo2023\_v004.dat

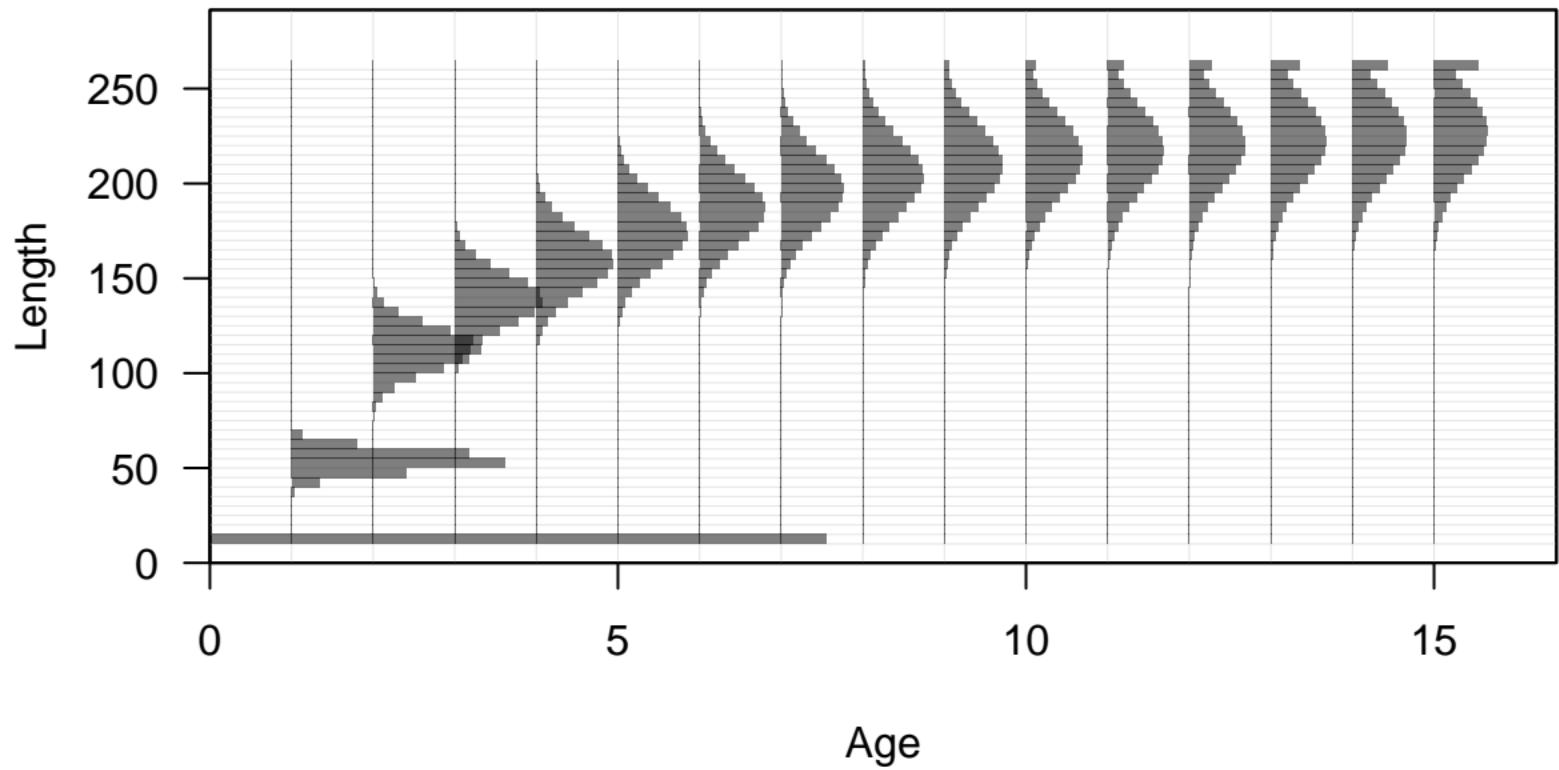
Control\_File: swo2023\_v005.ctl

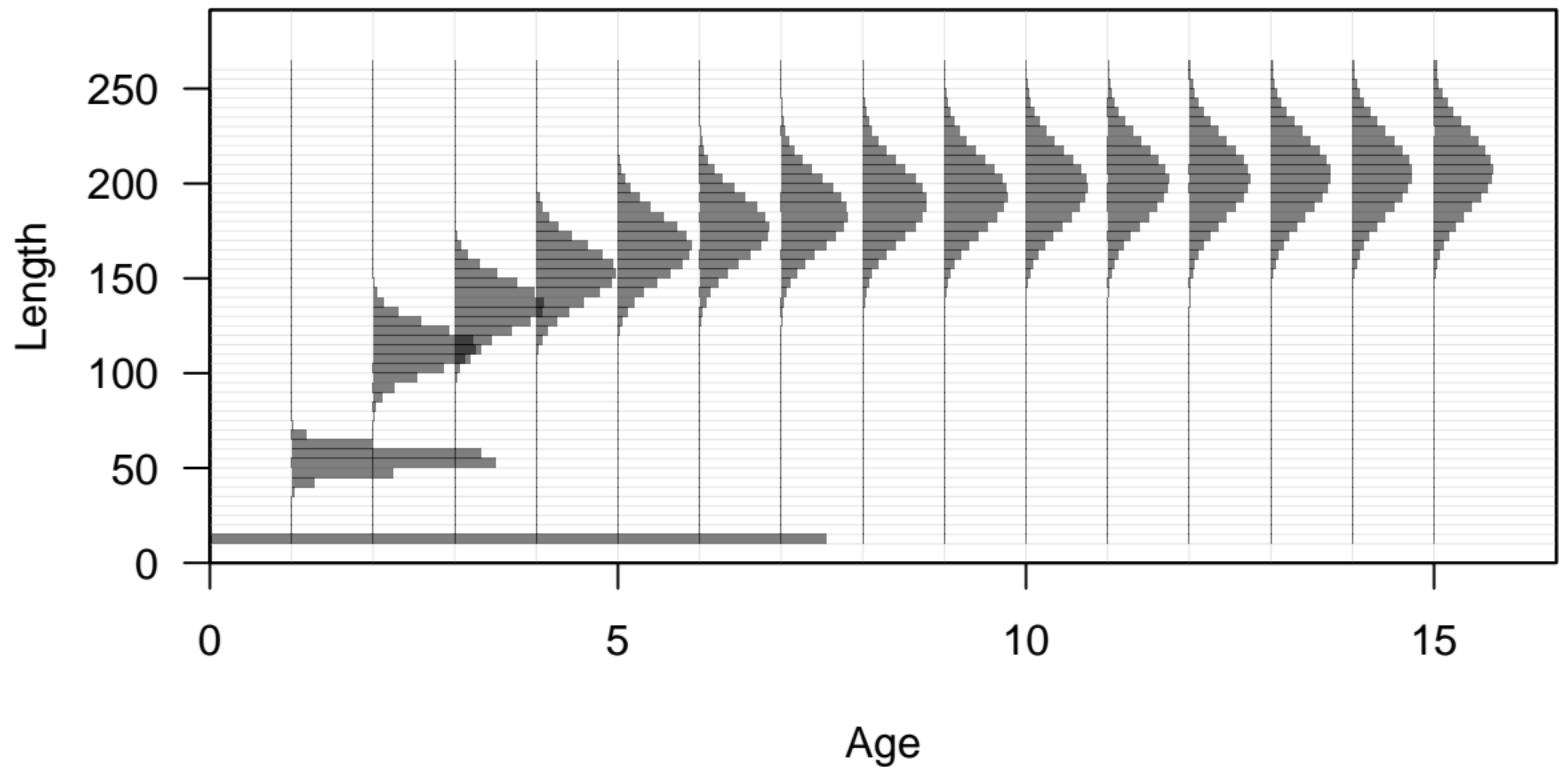
Length (cm, beginning of season 1)

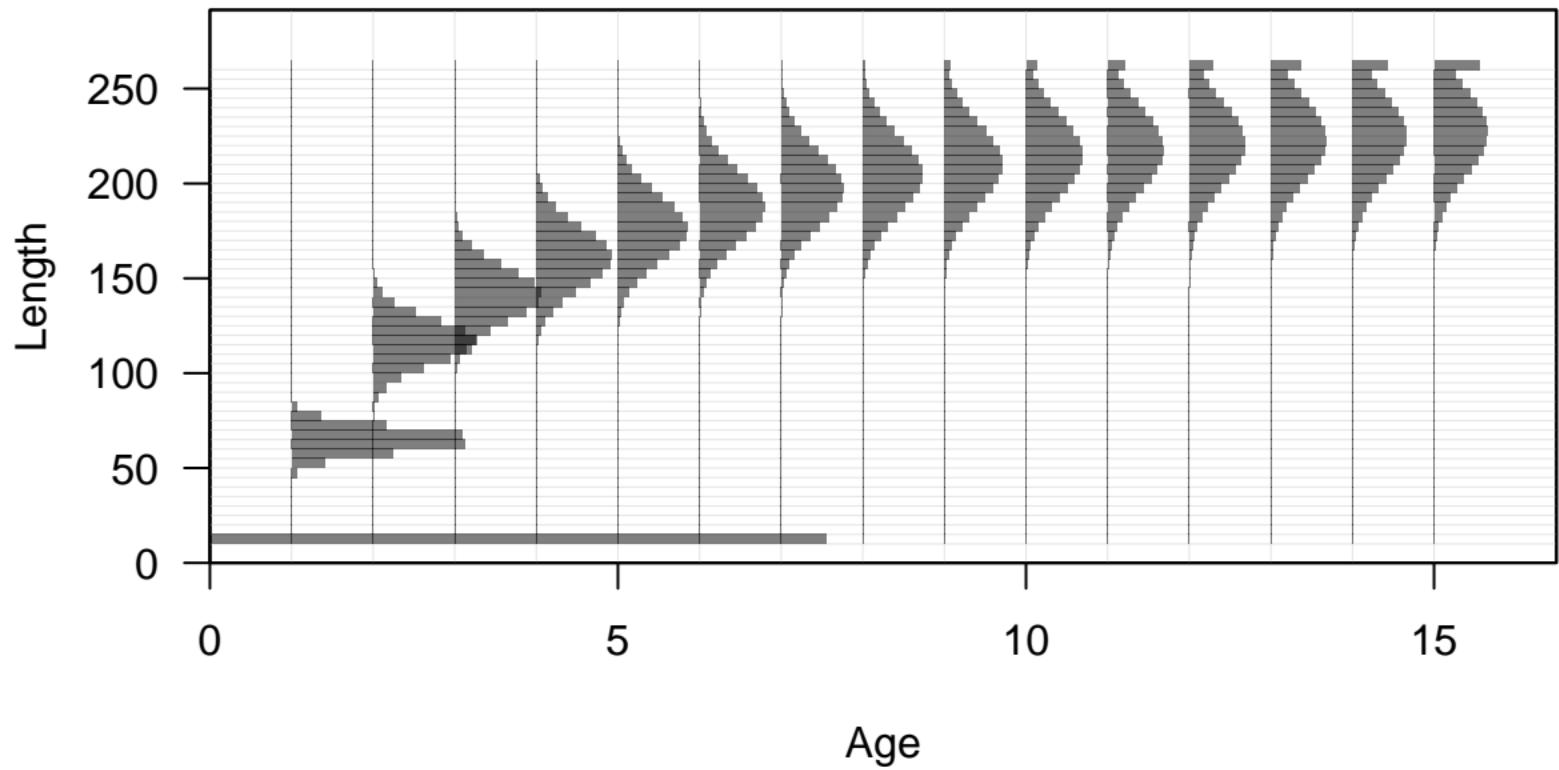


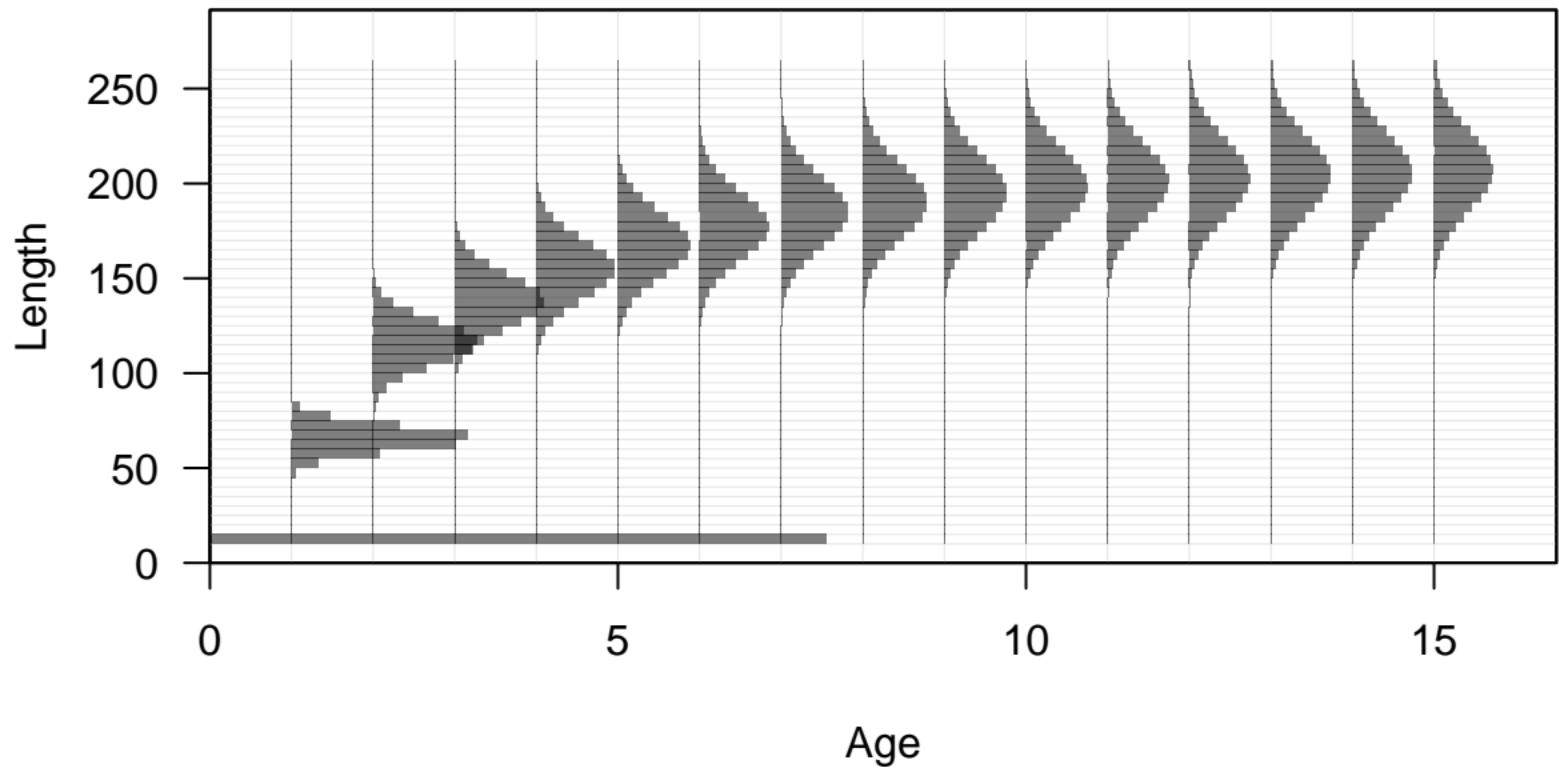


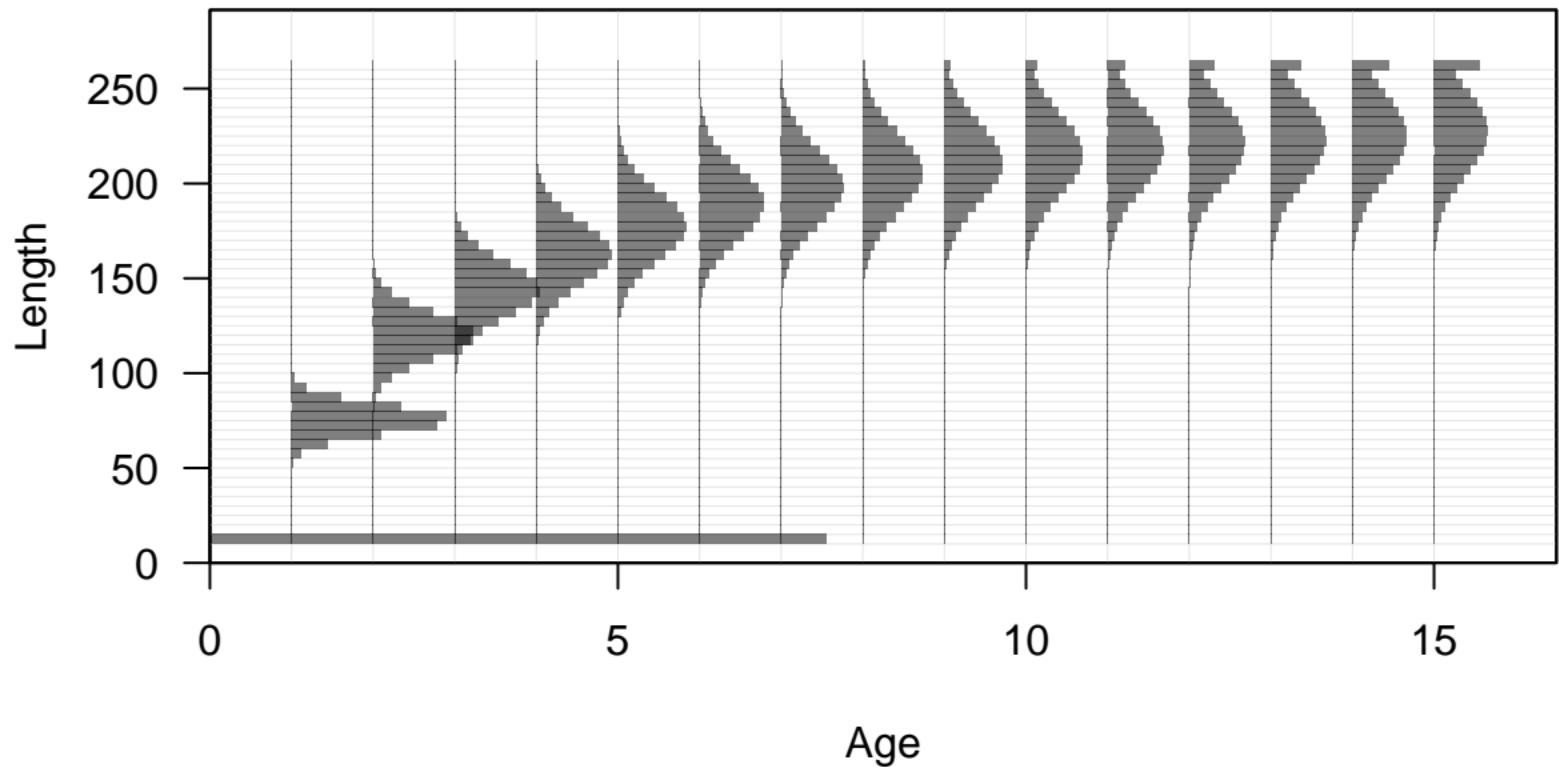


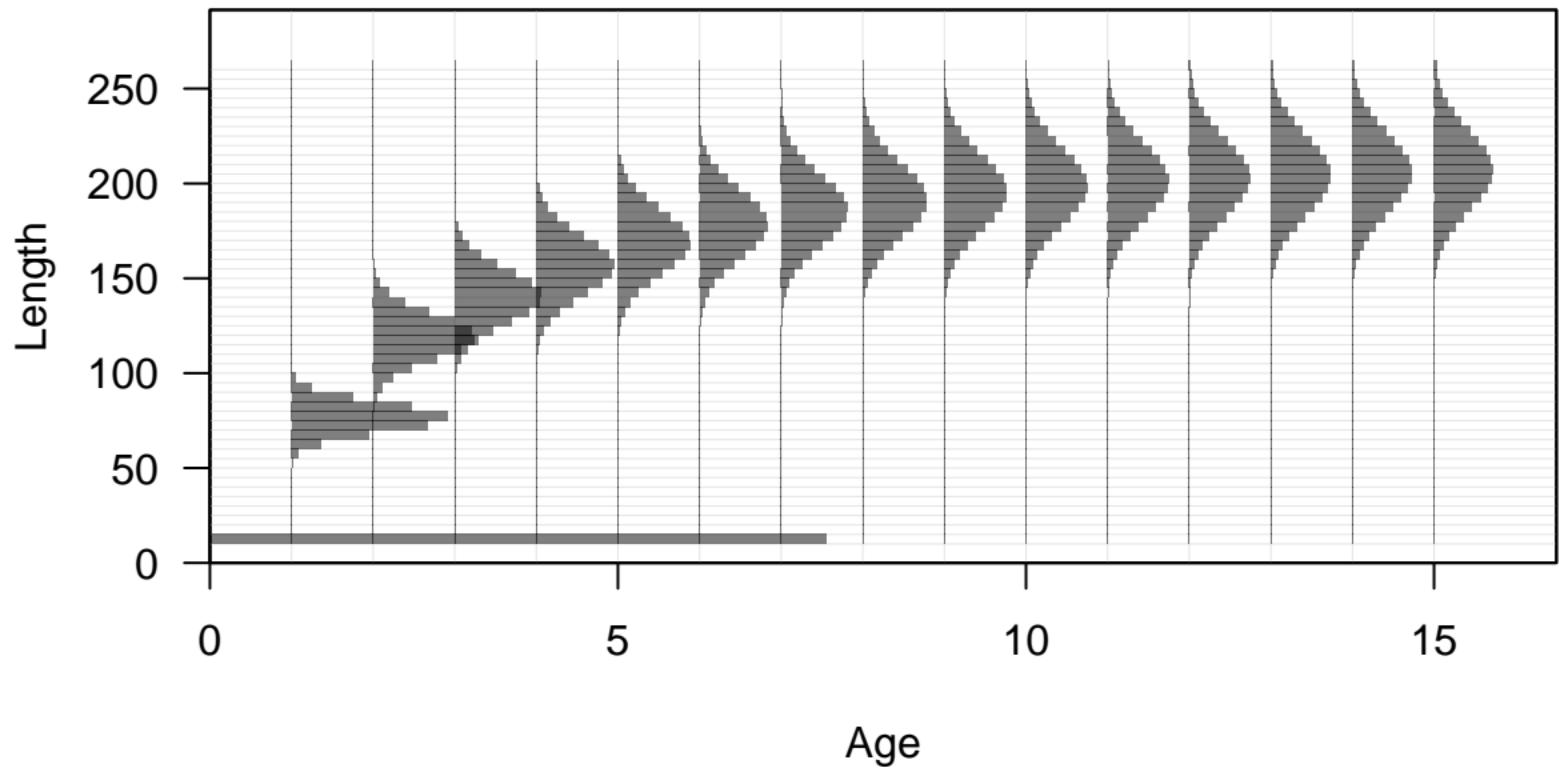


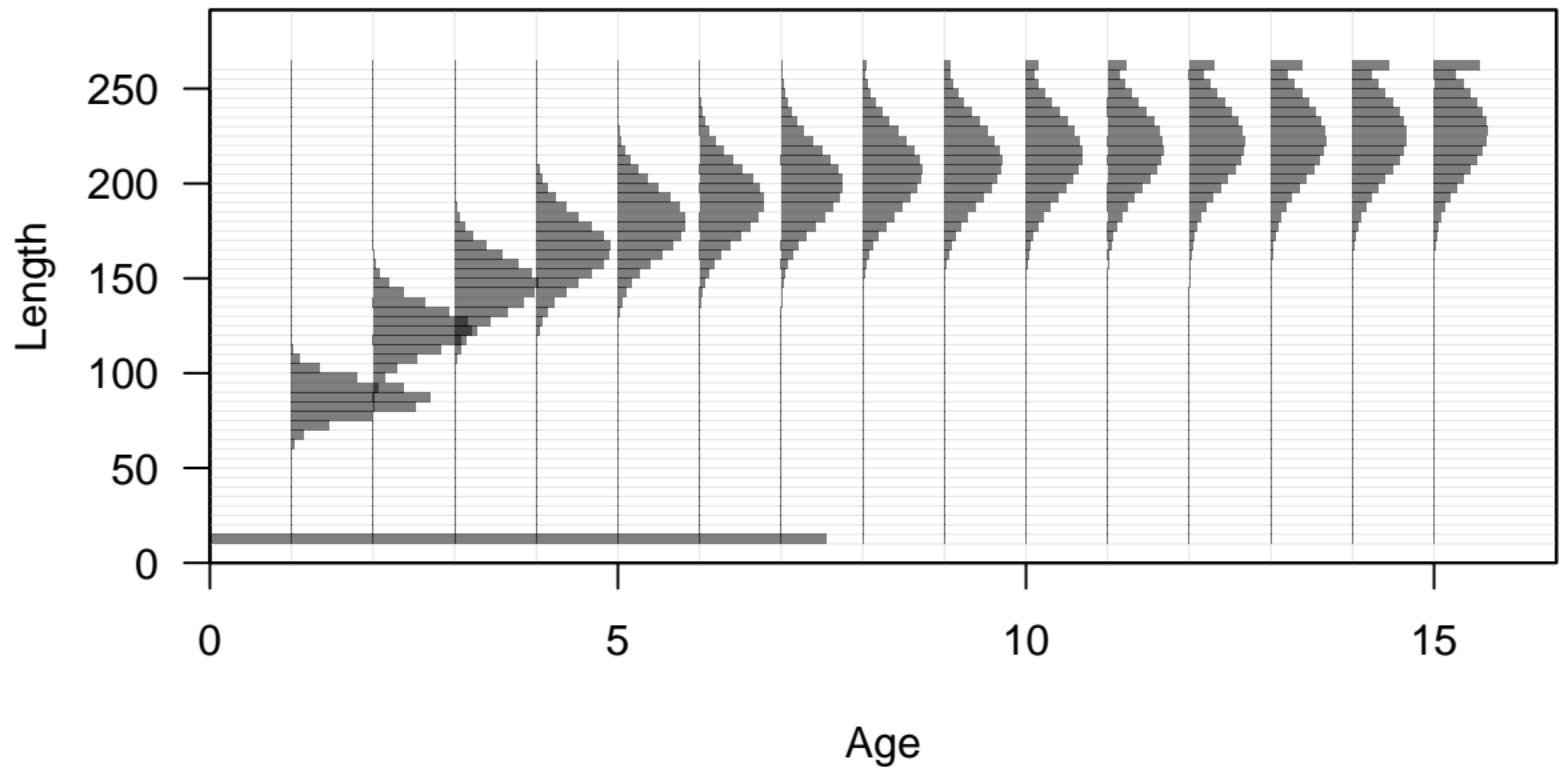


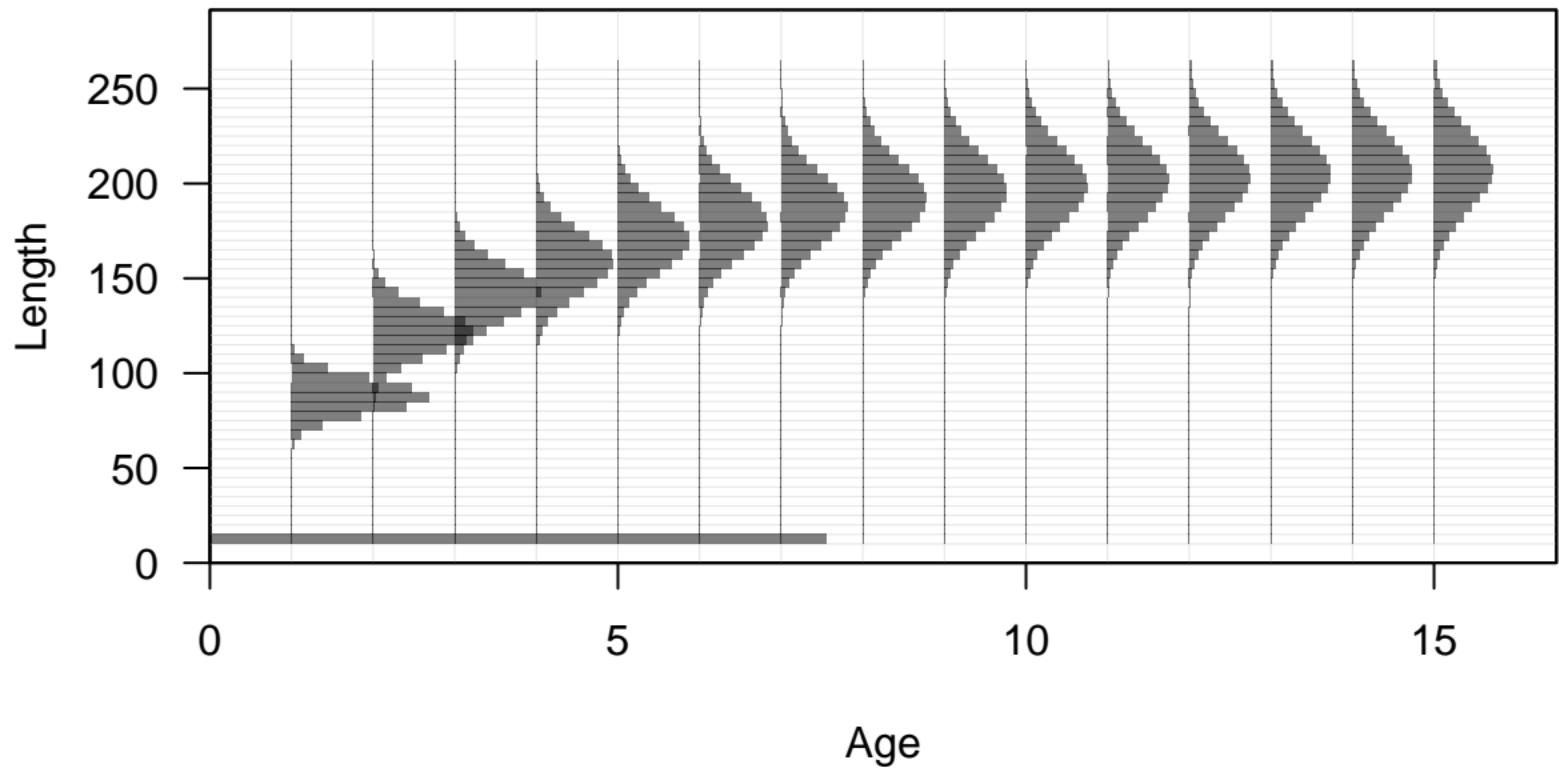


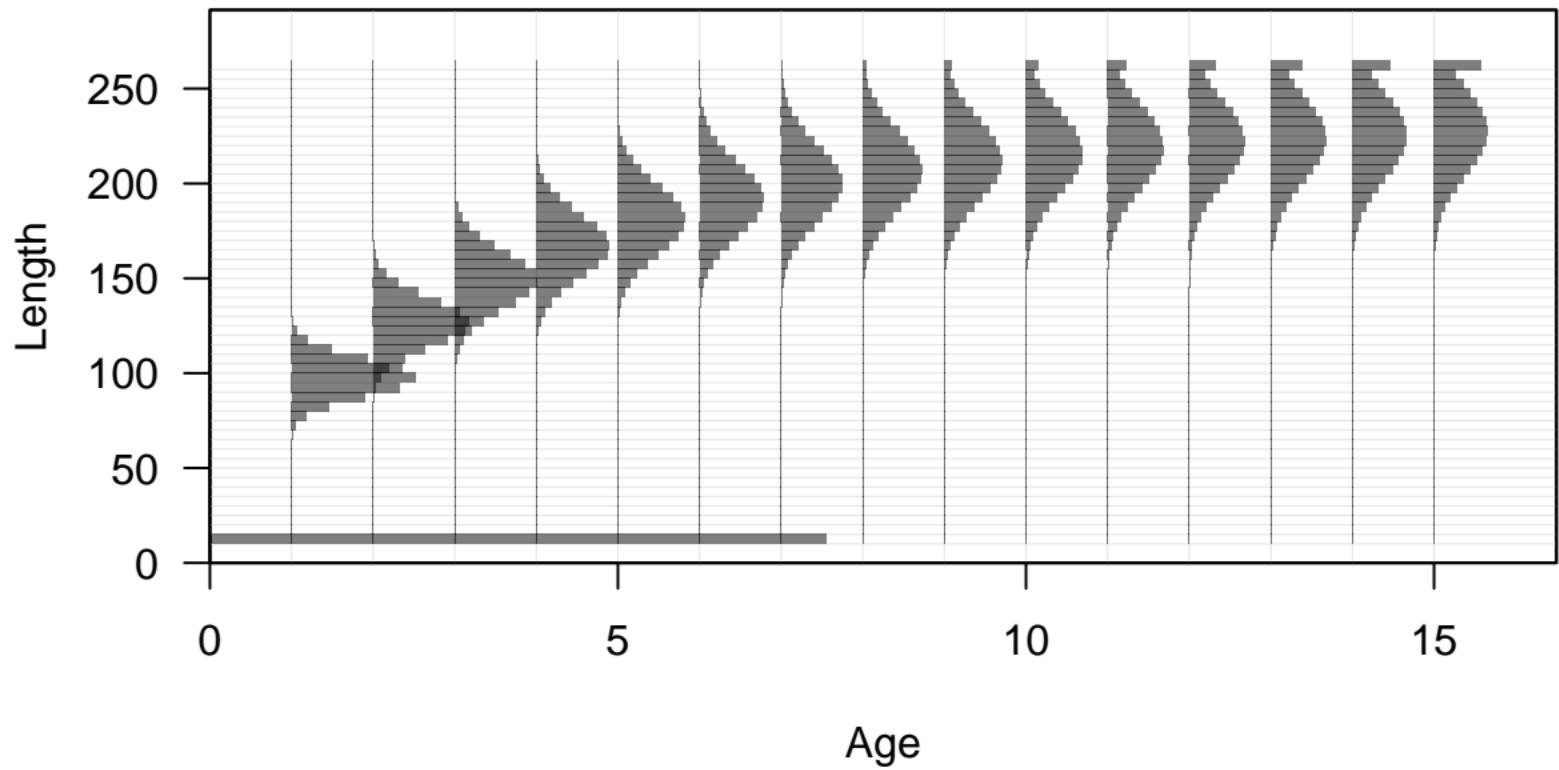


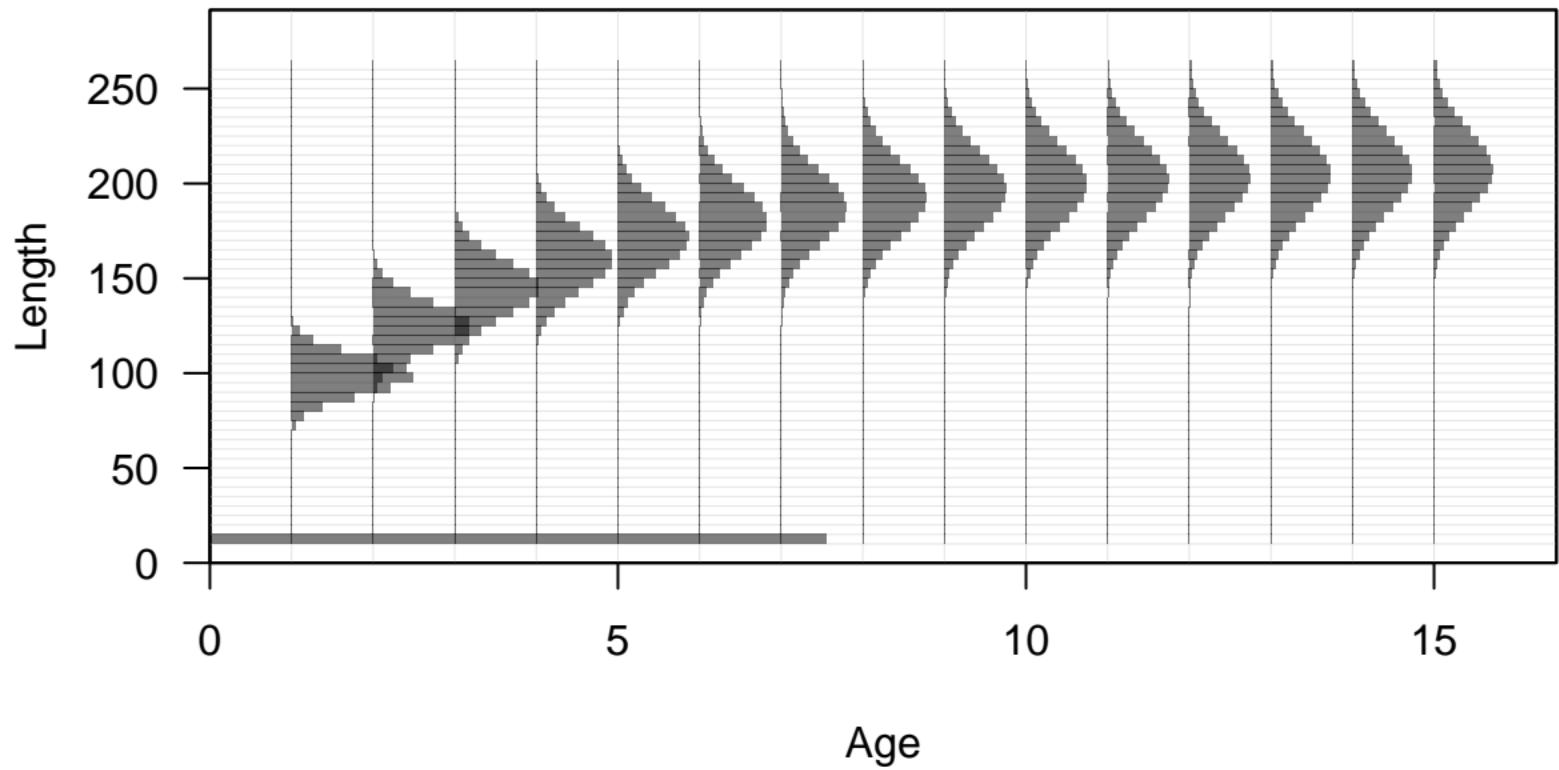


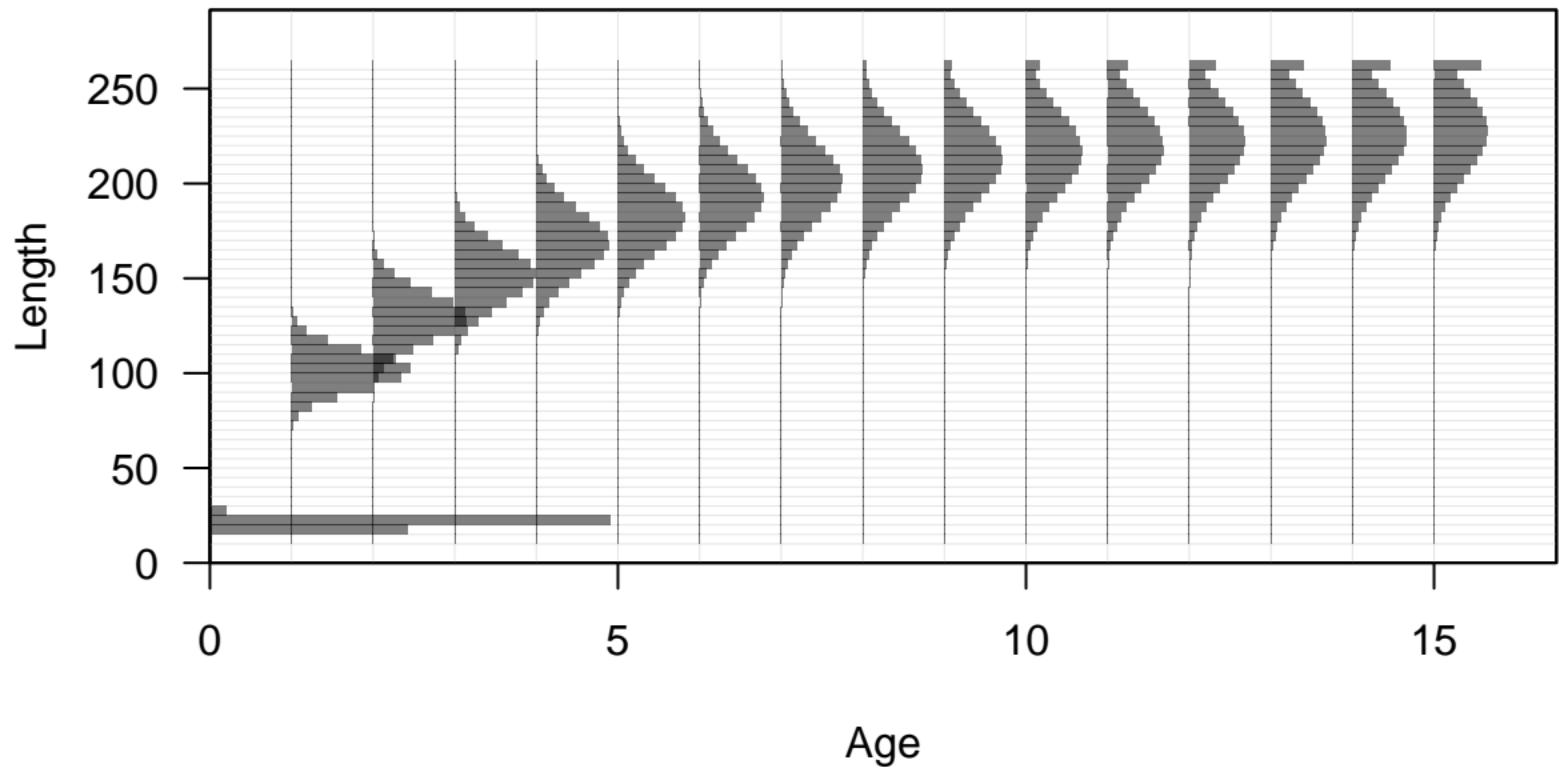


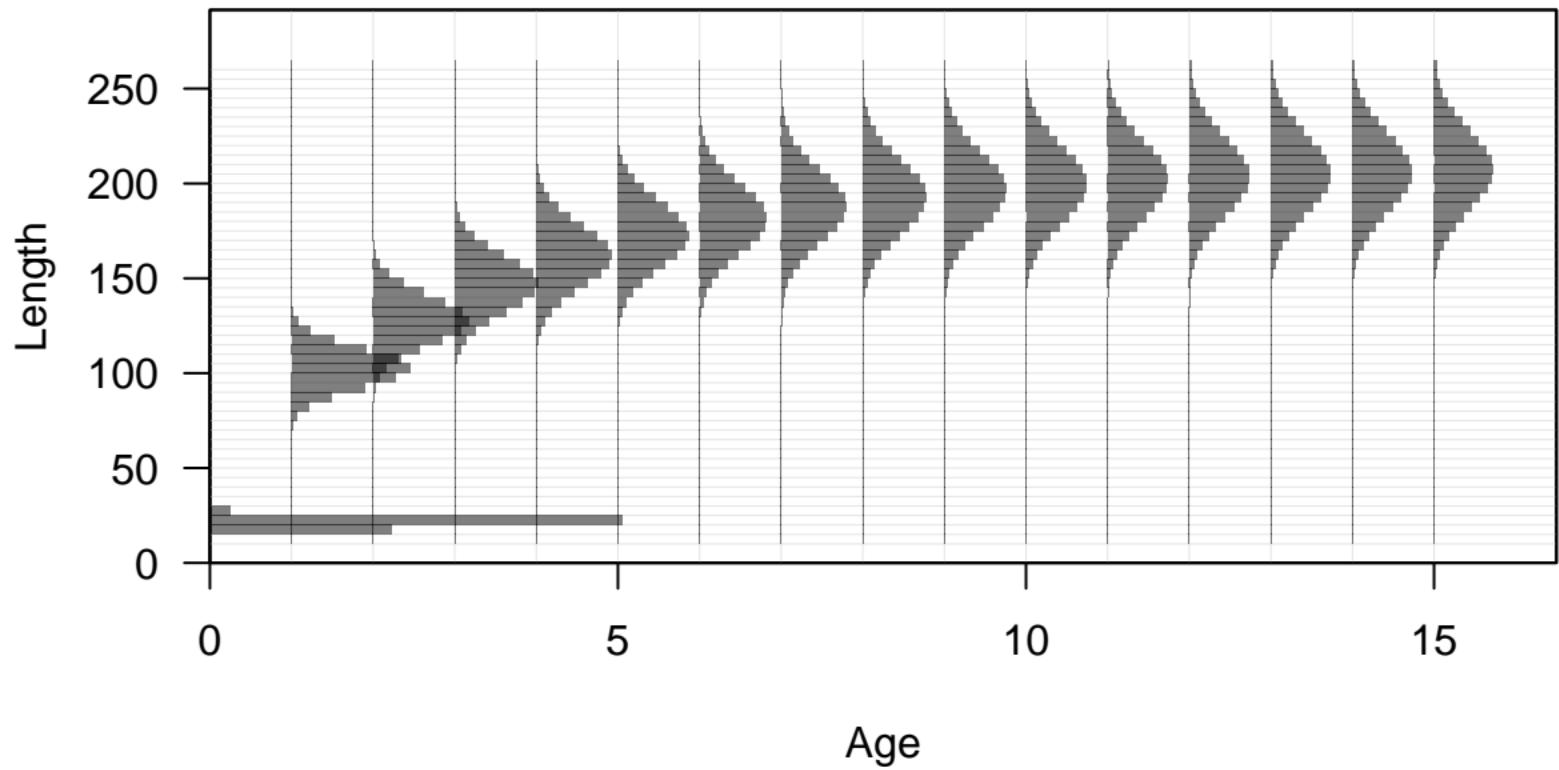


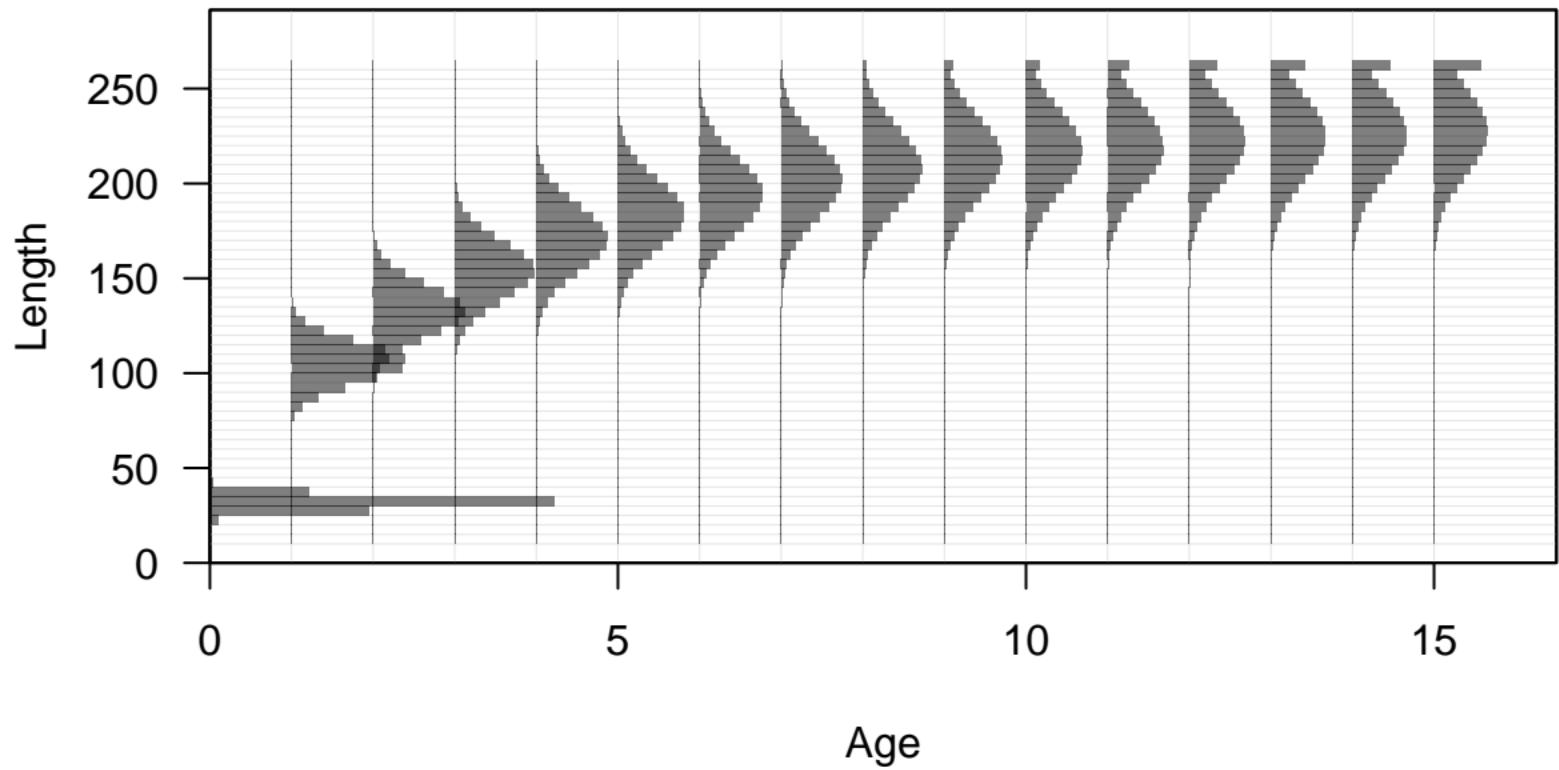


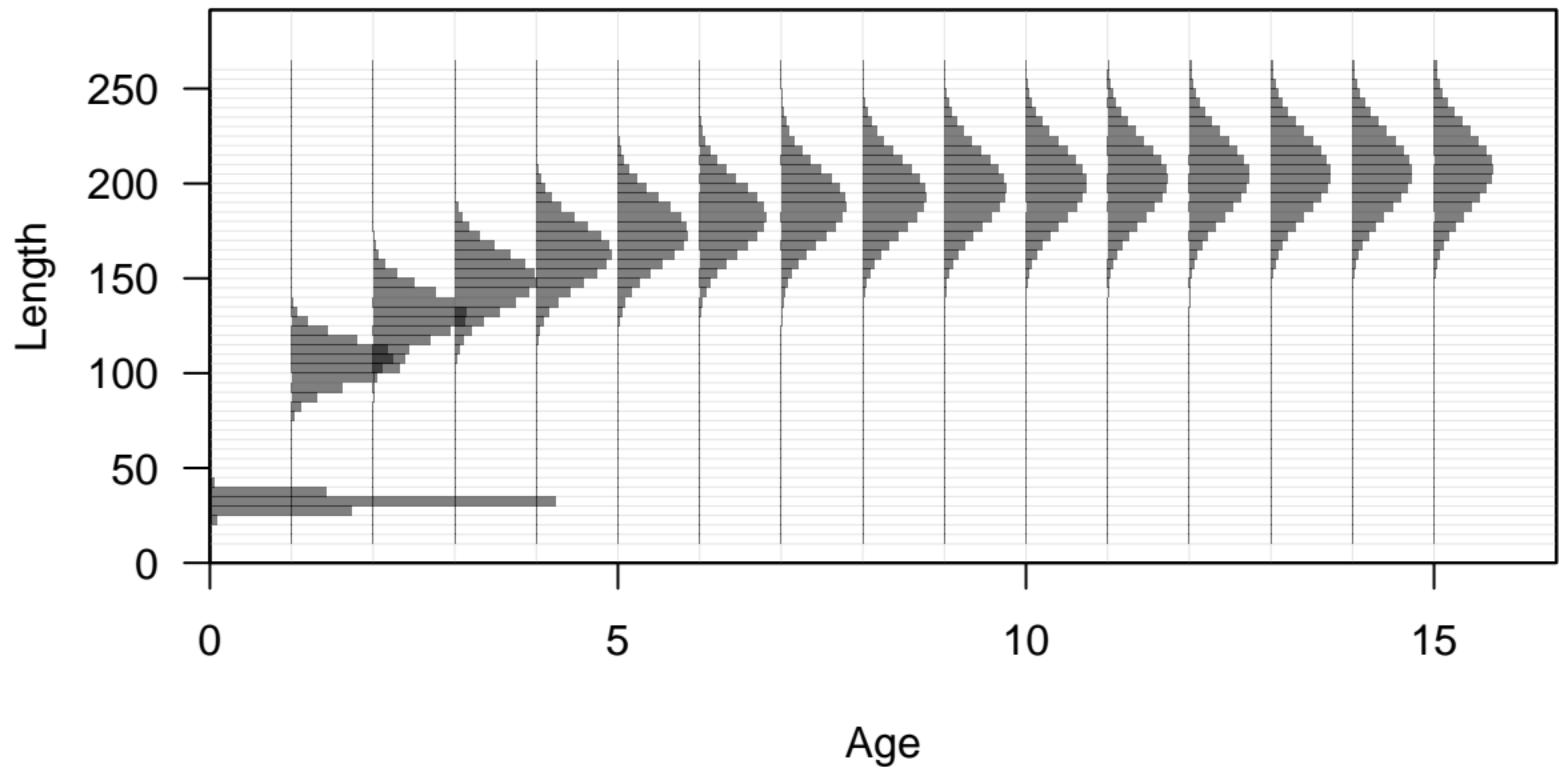


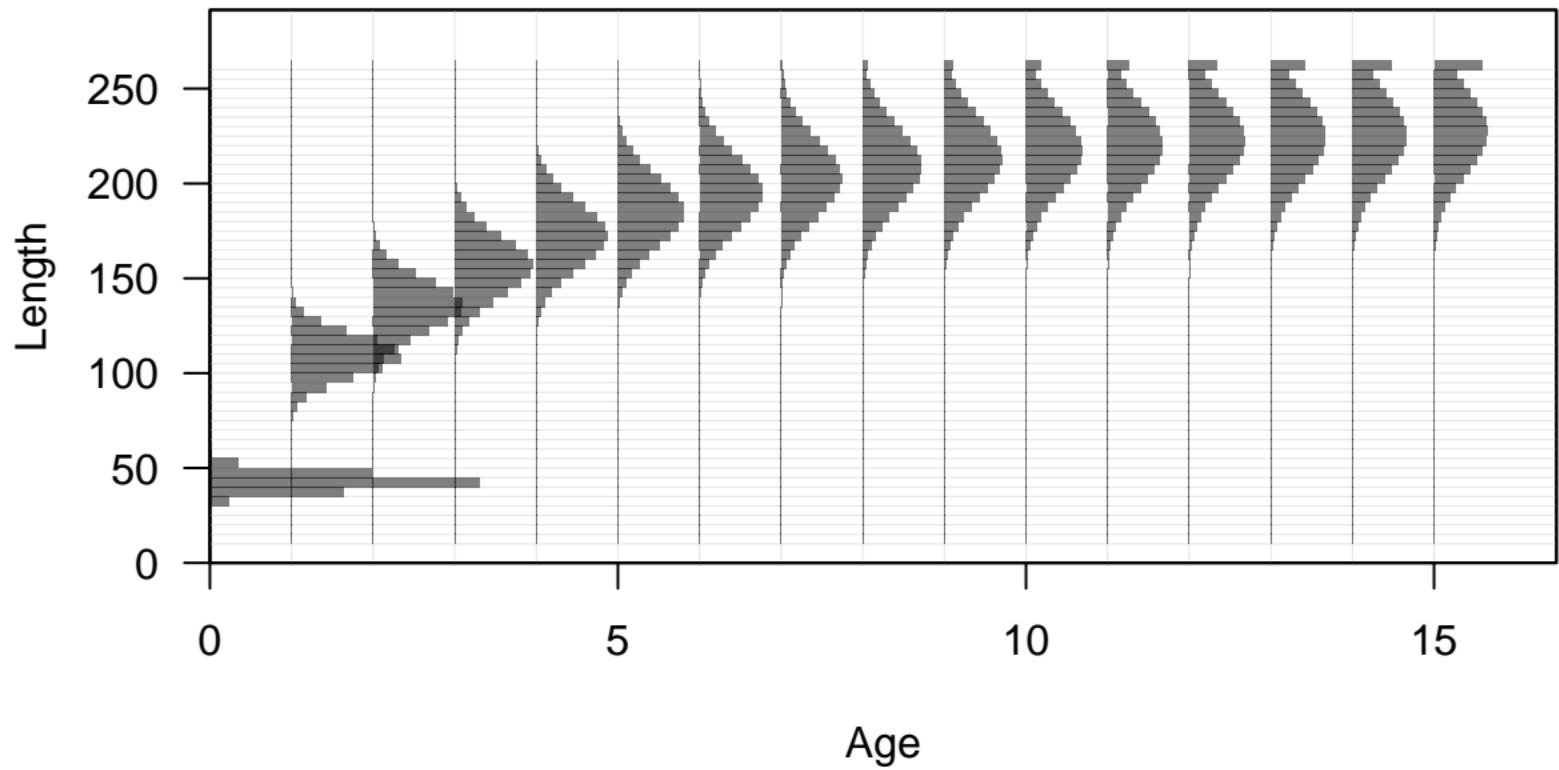


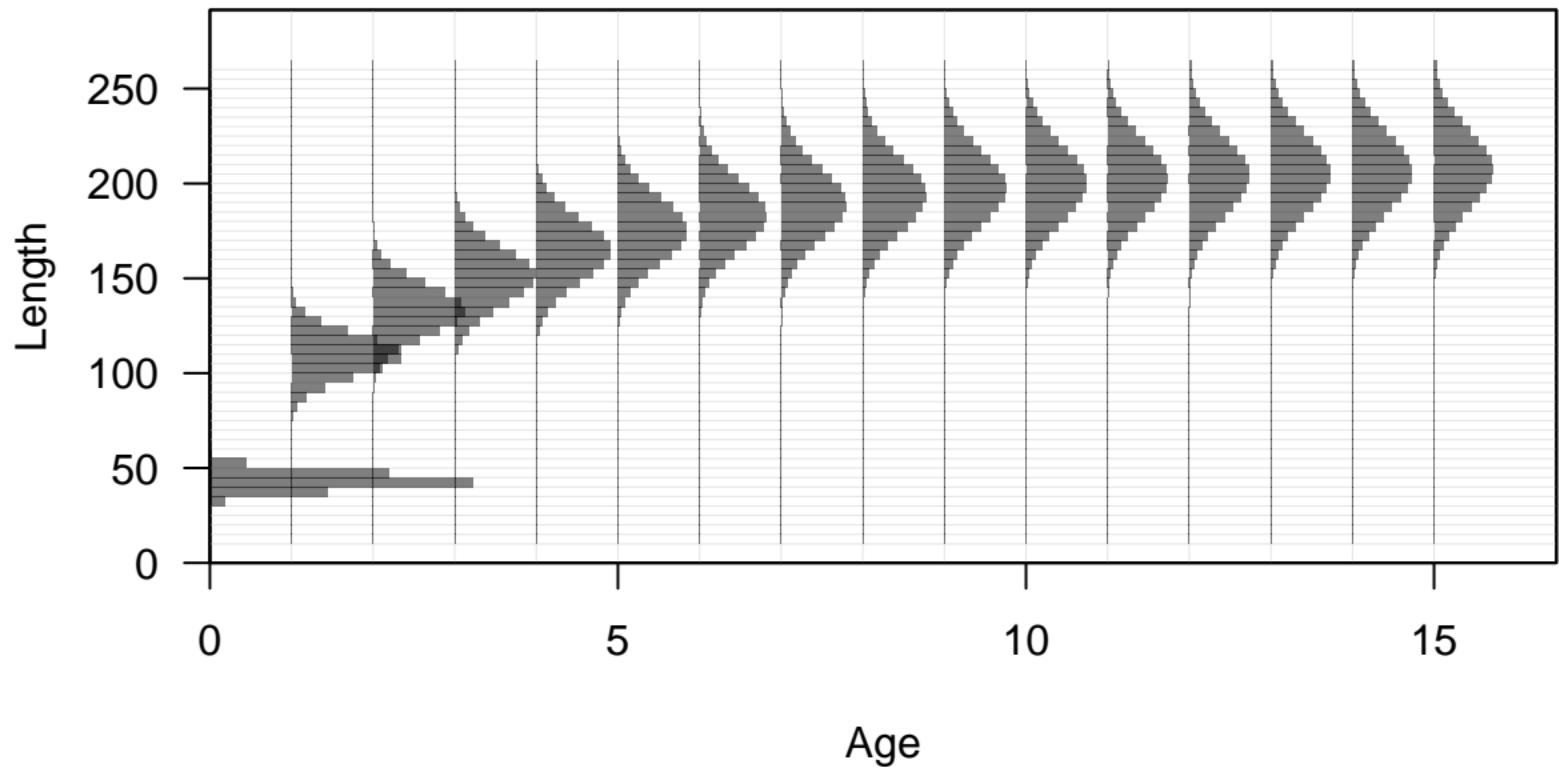


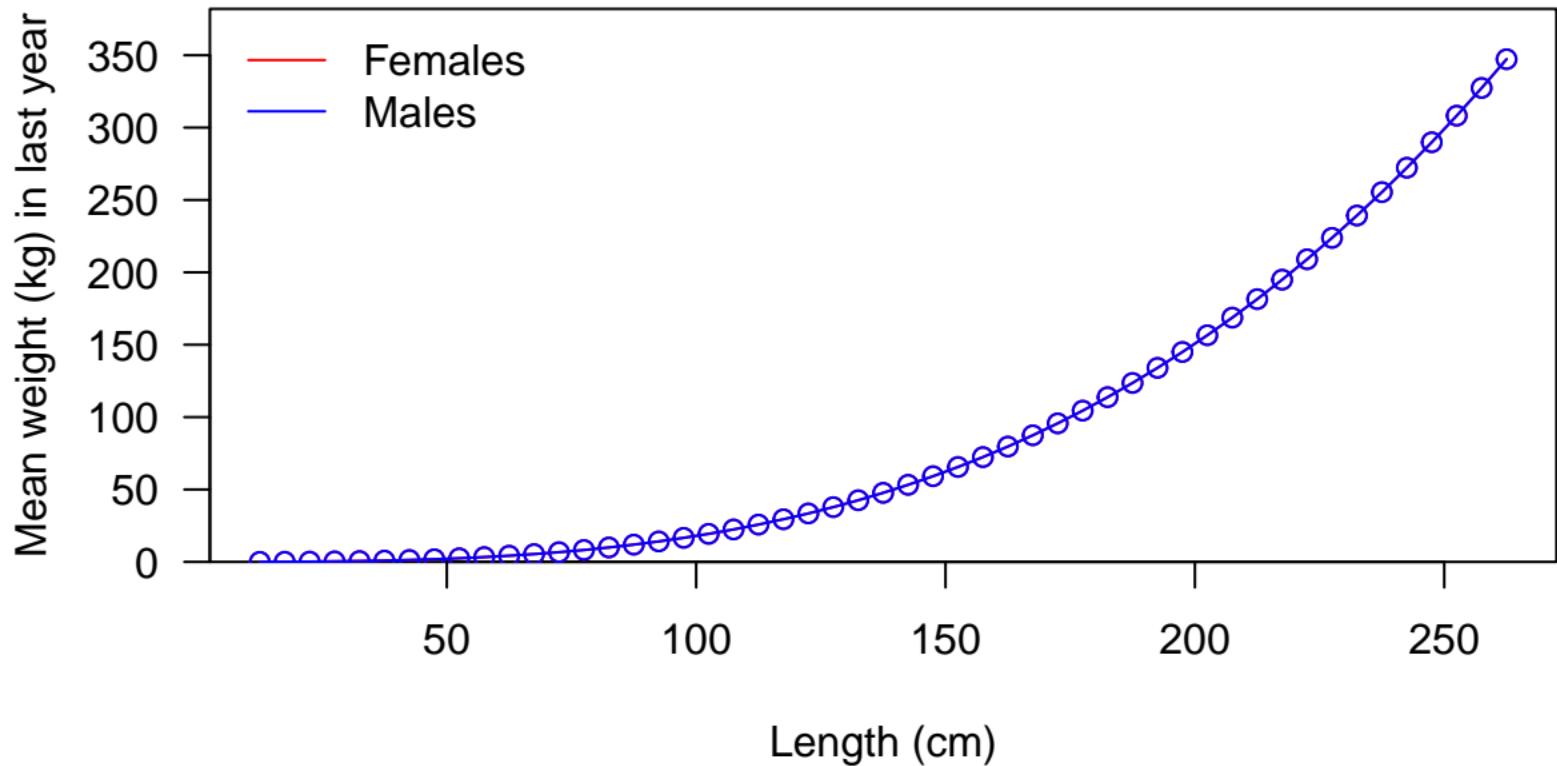


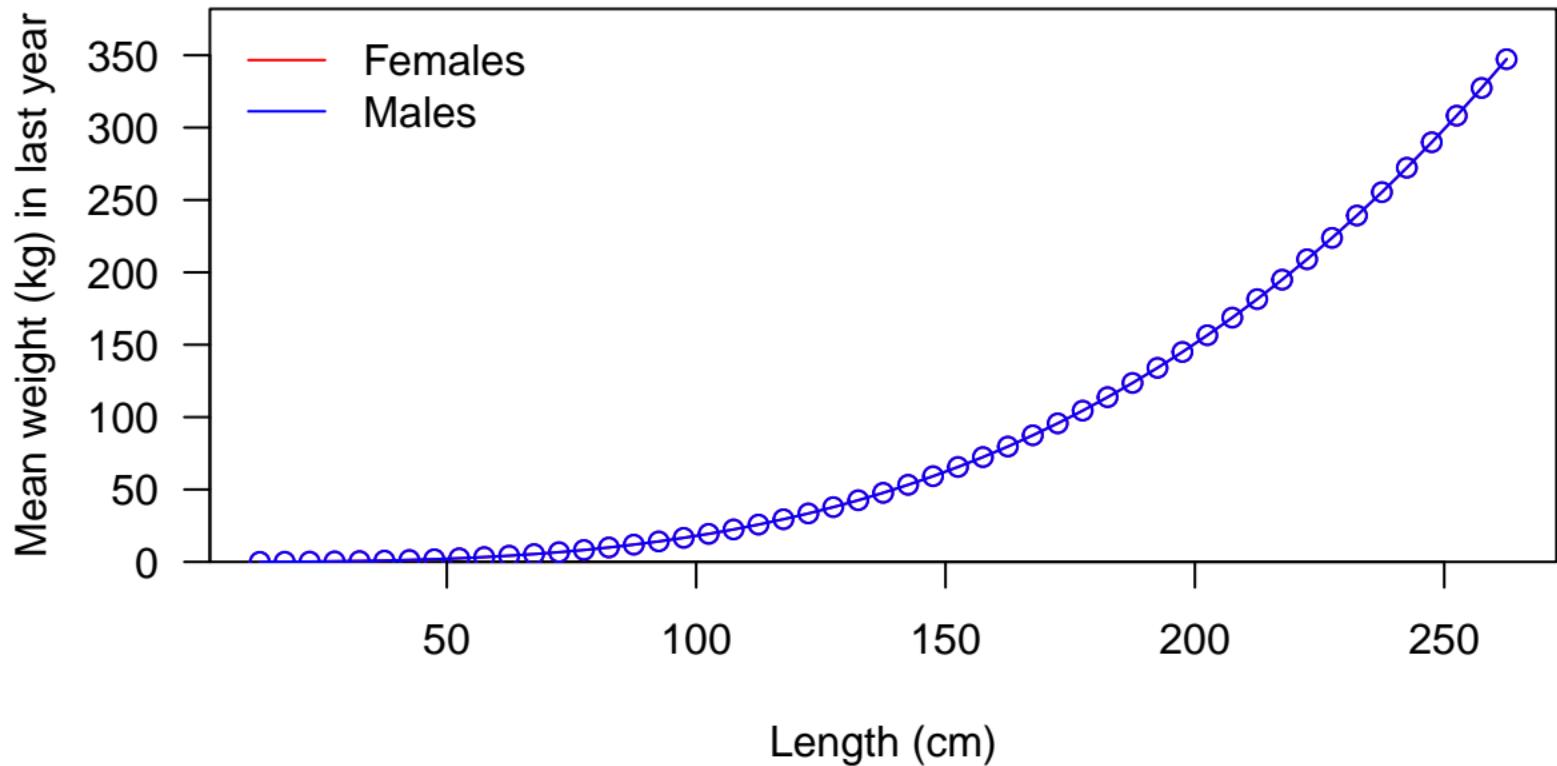


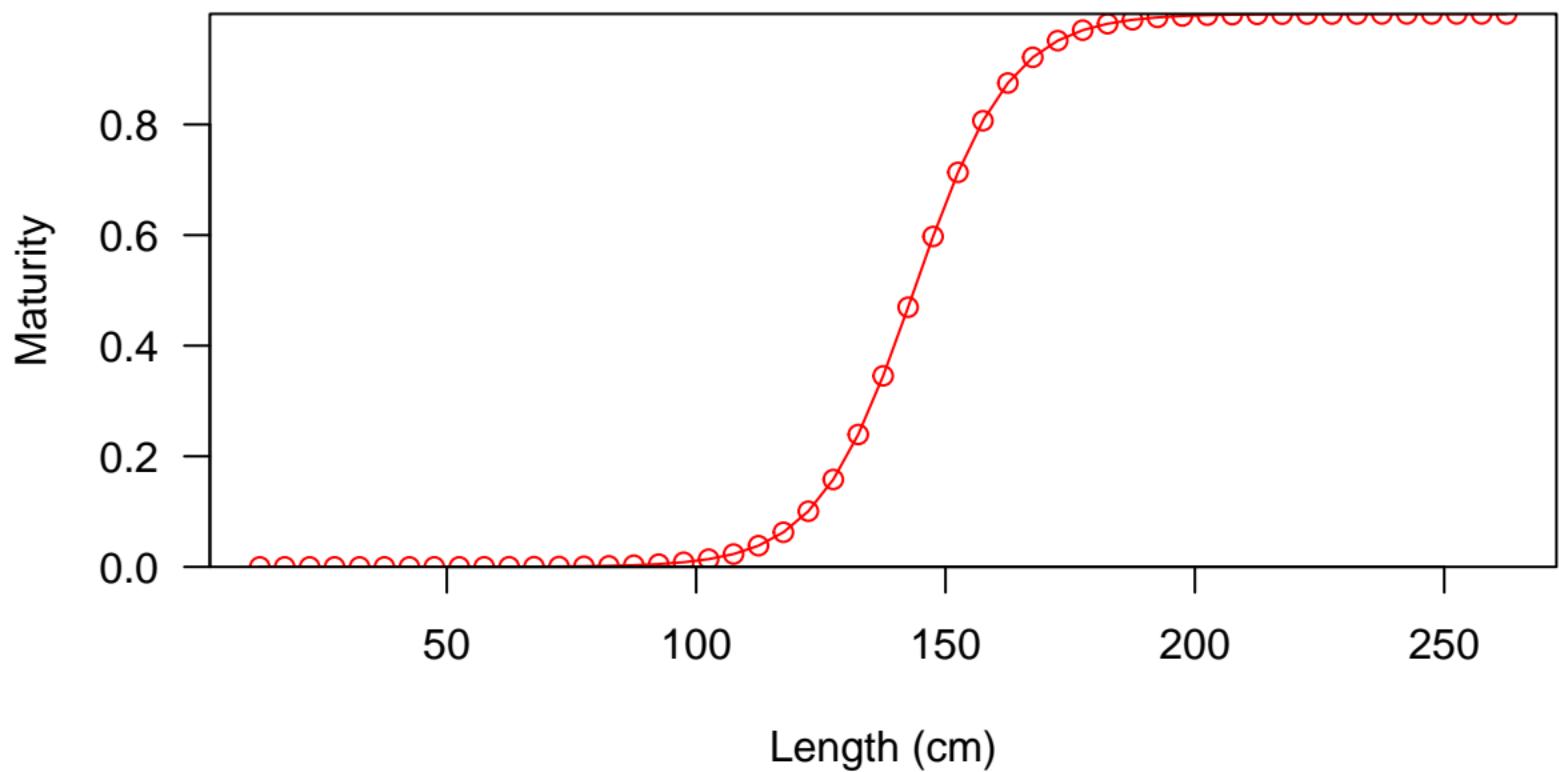


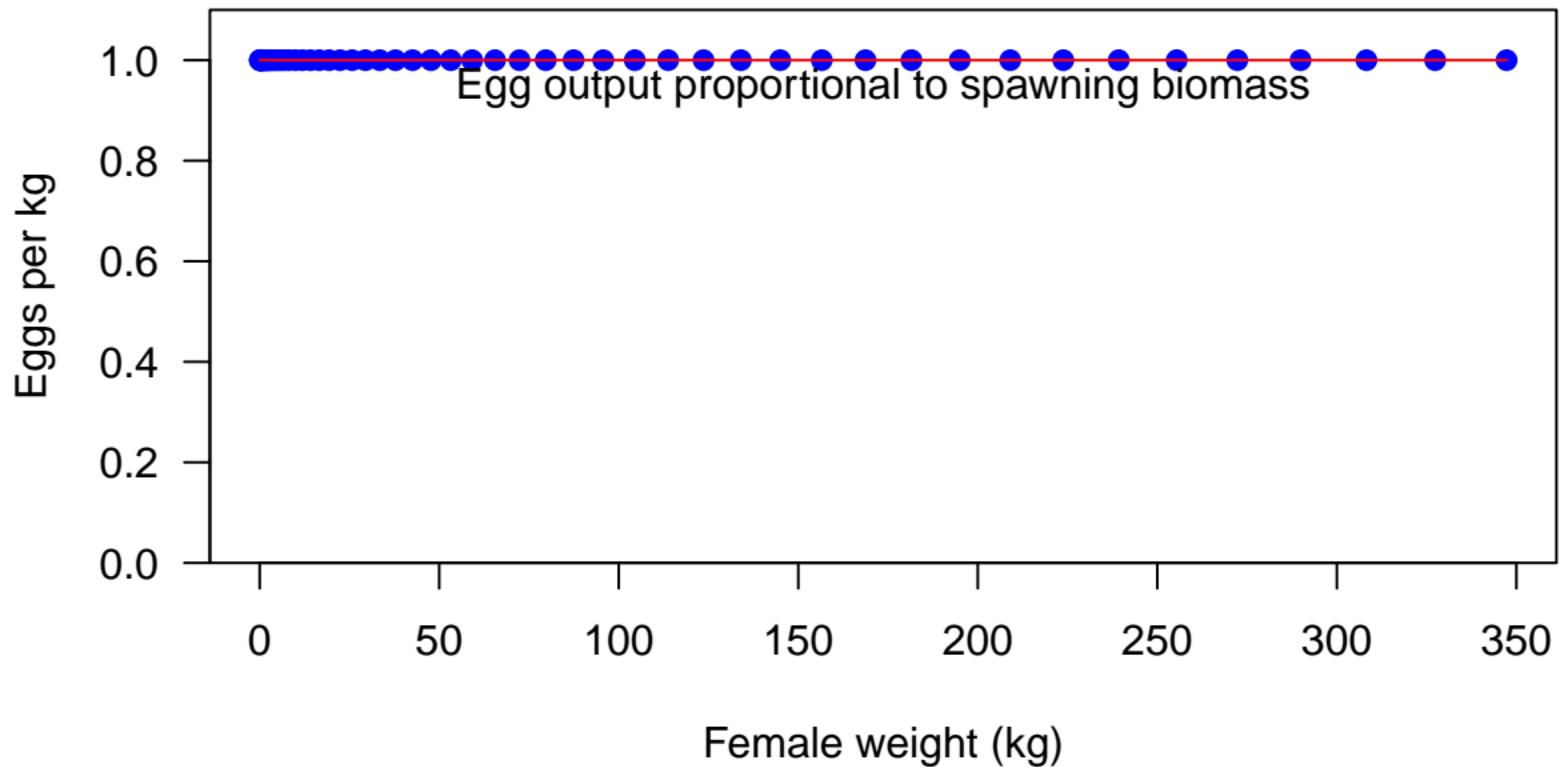


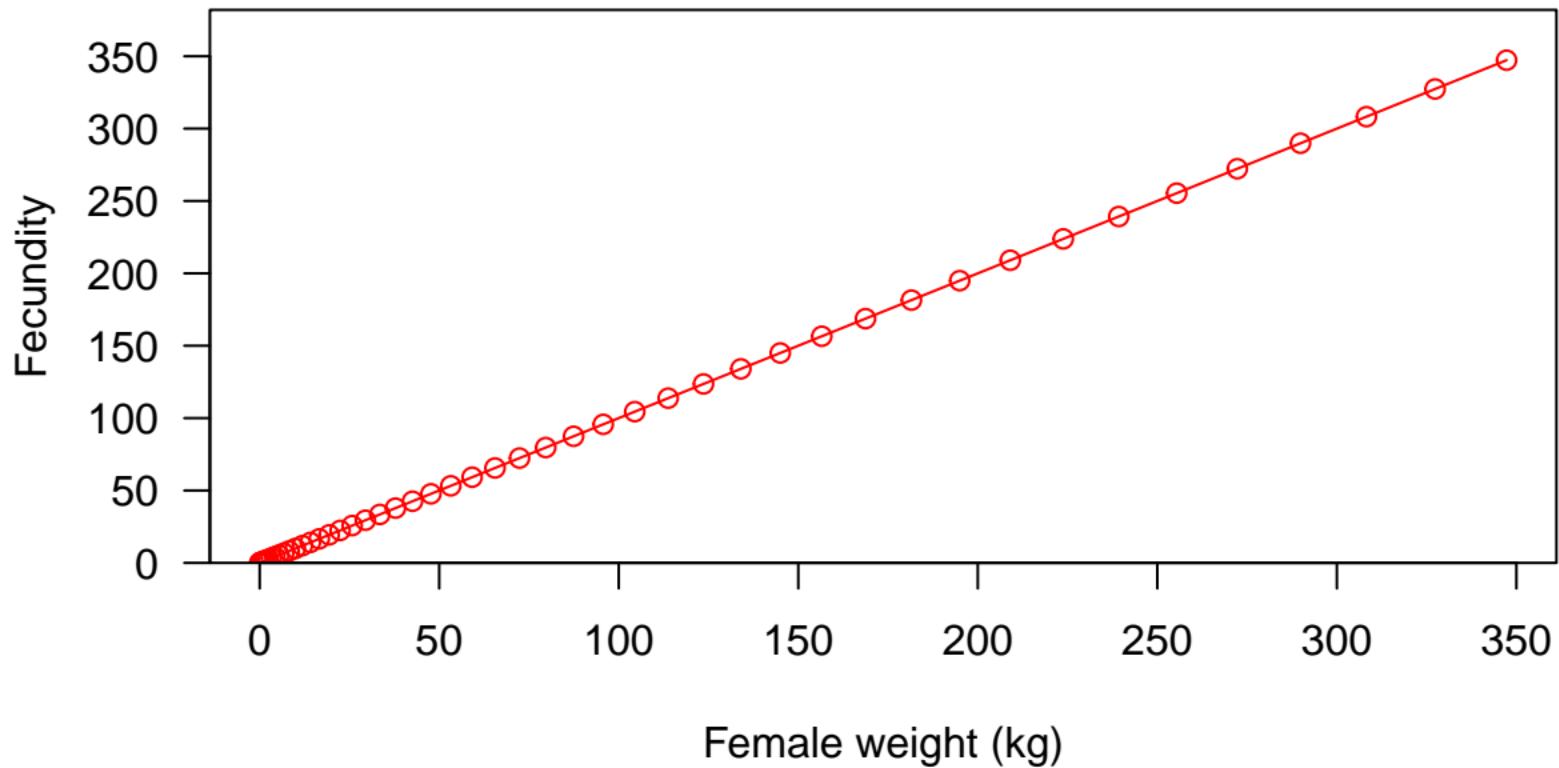


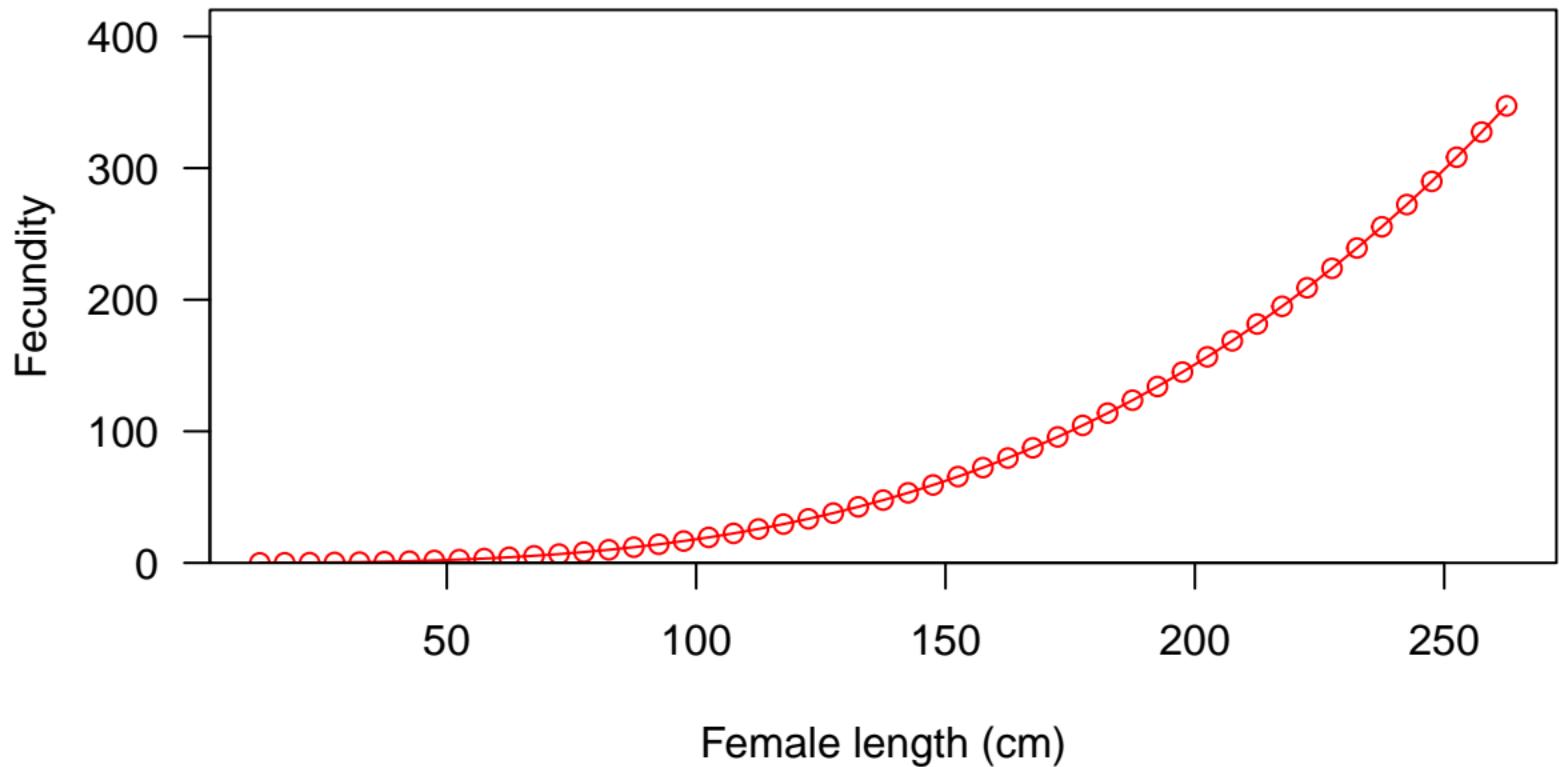


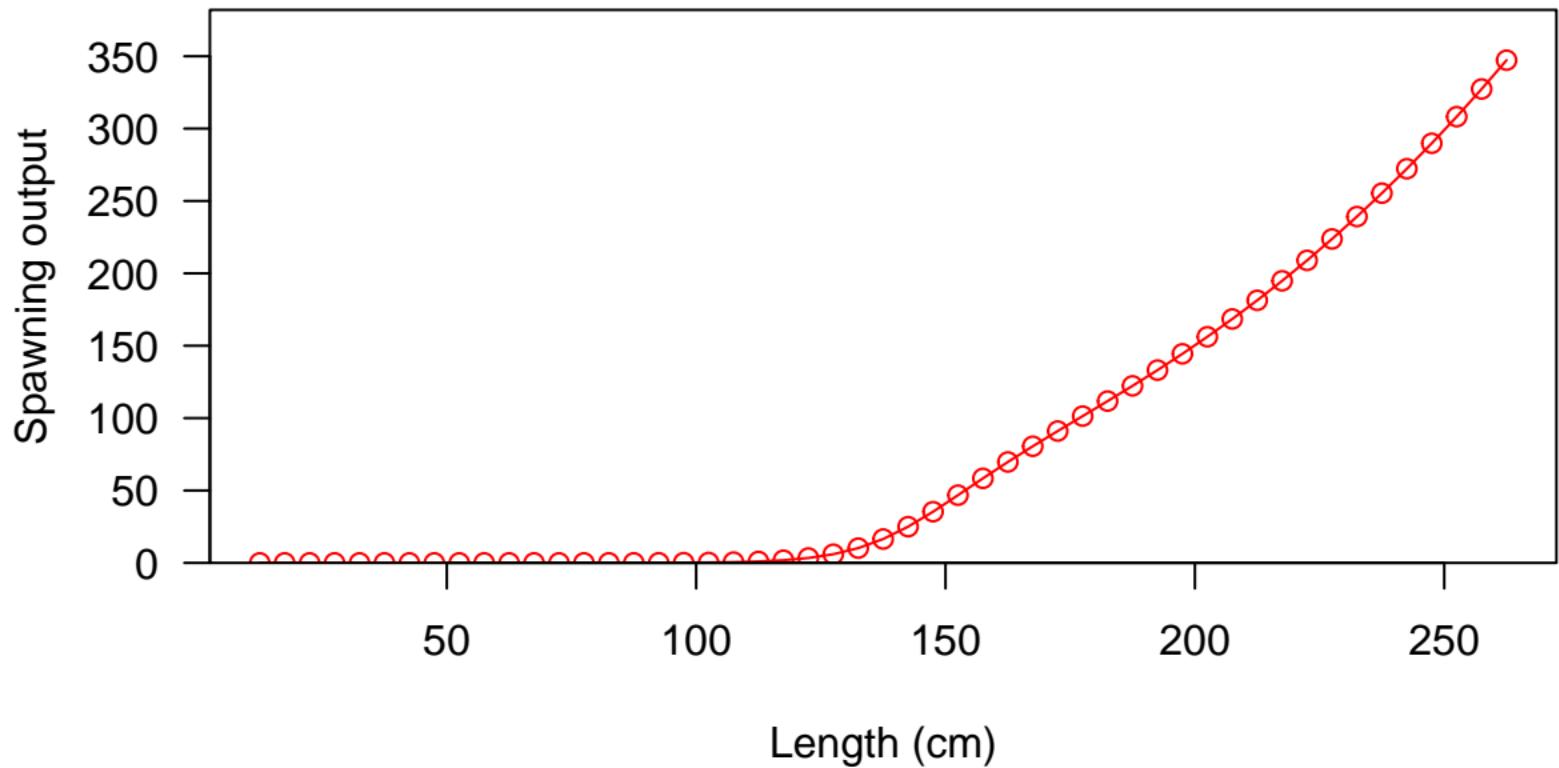


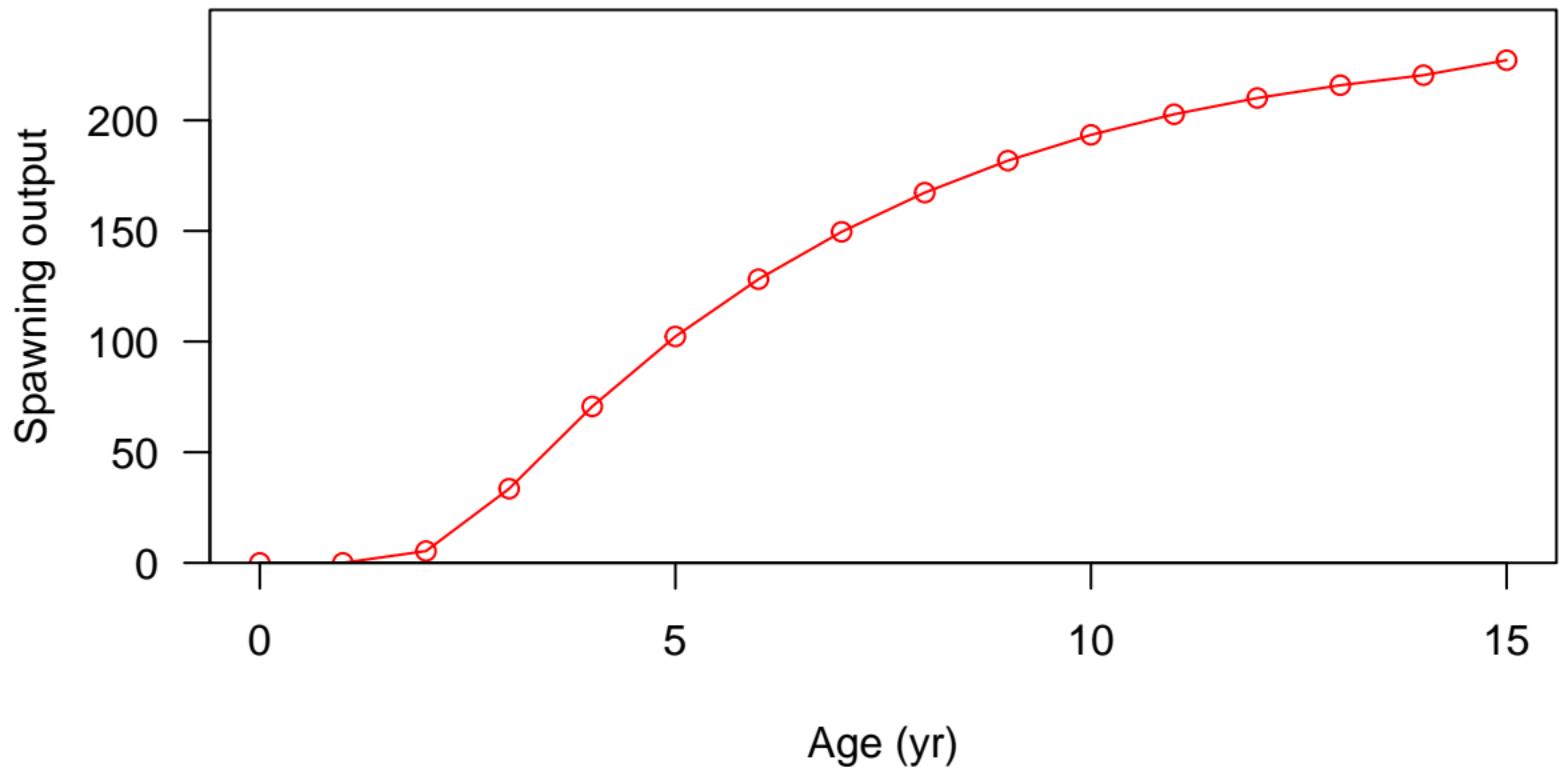


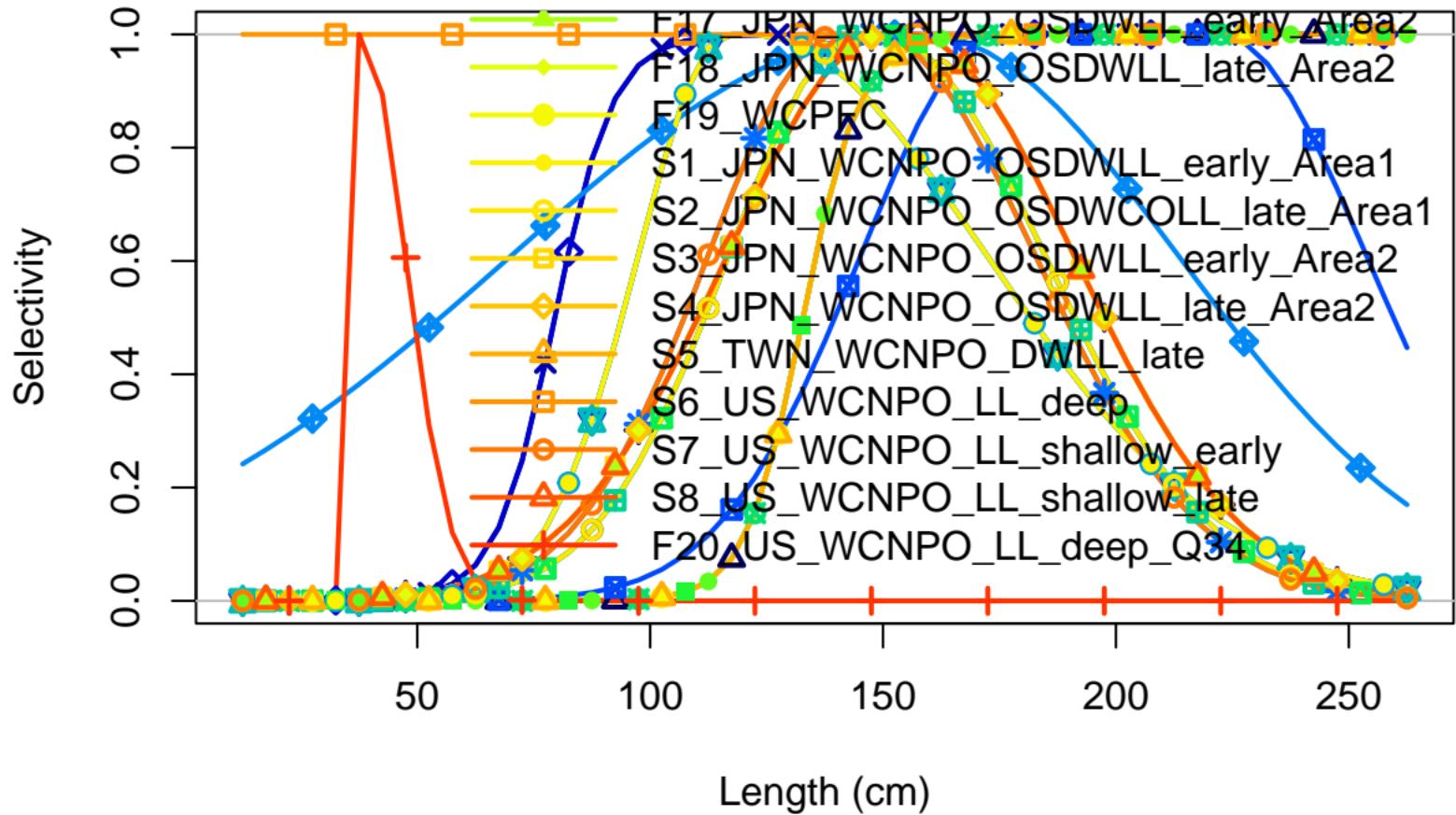


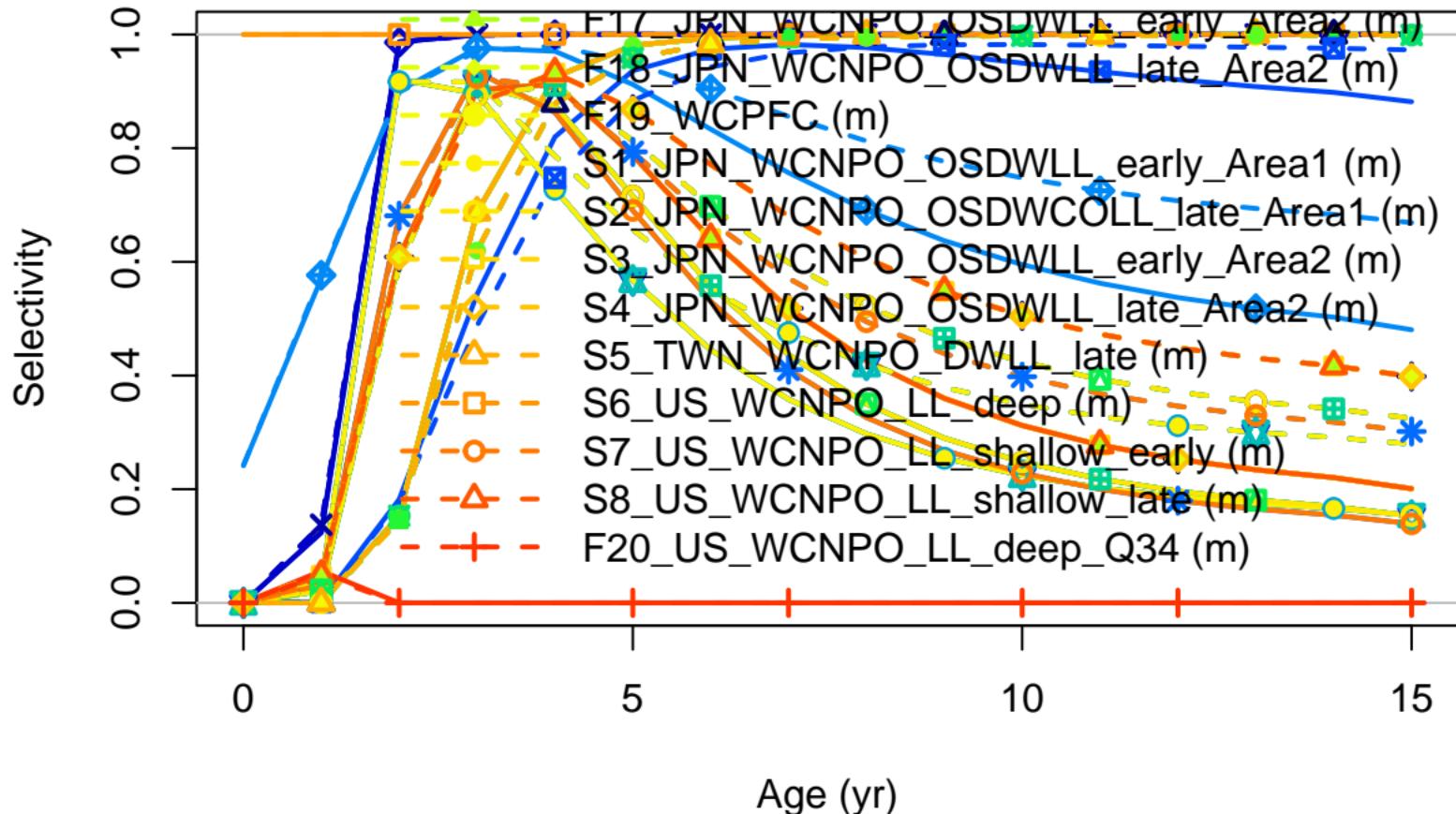


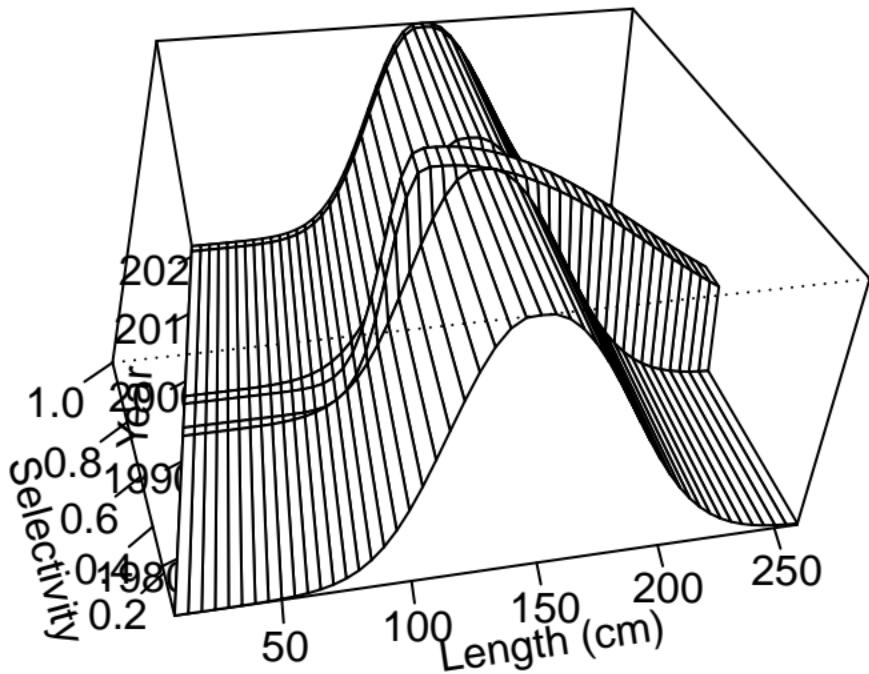


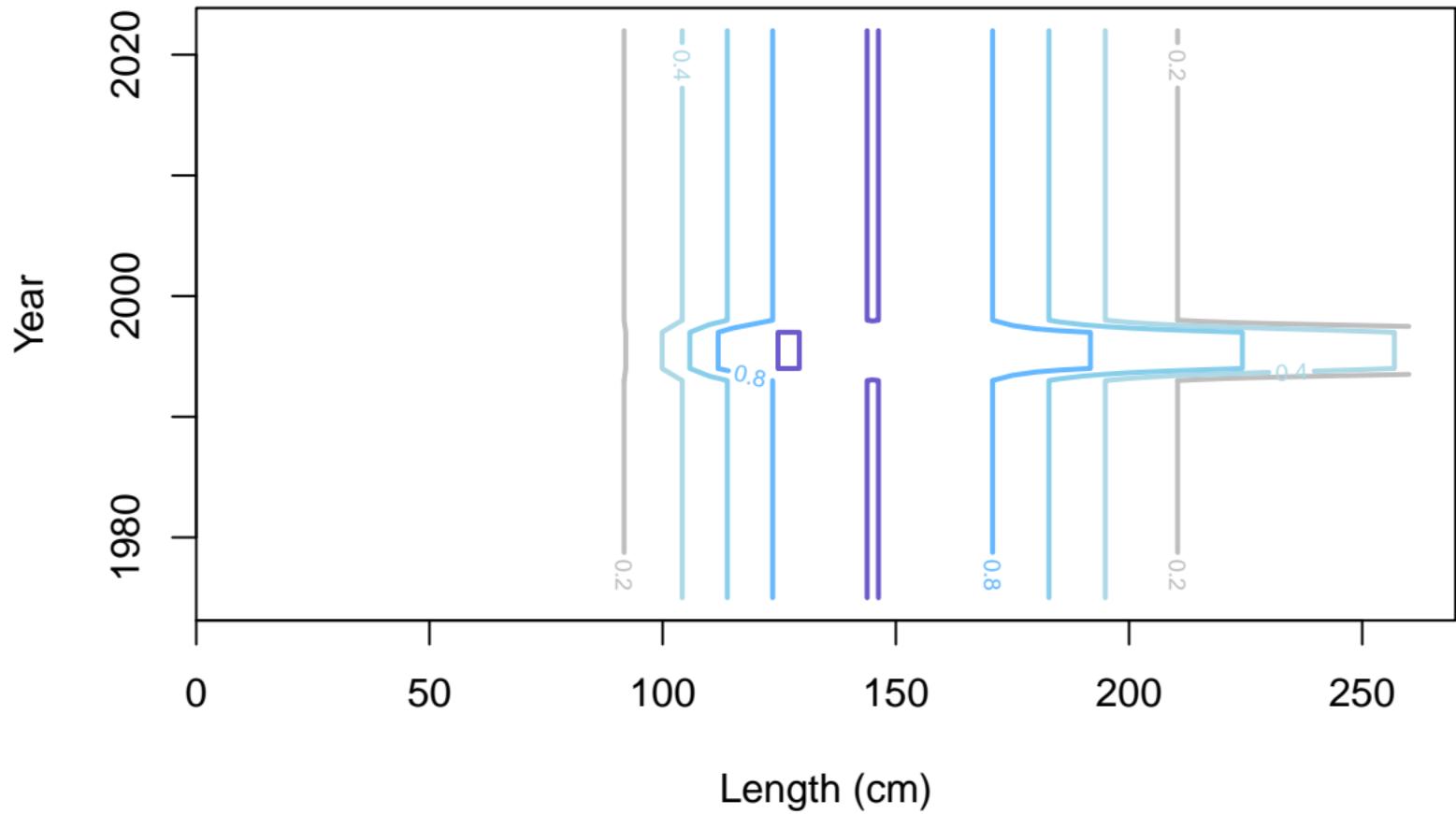


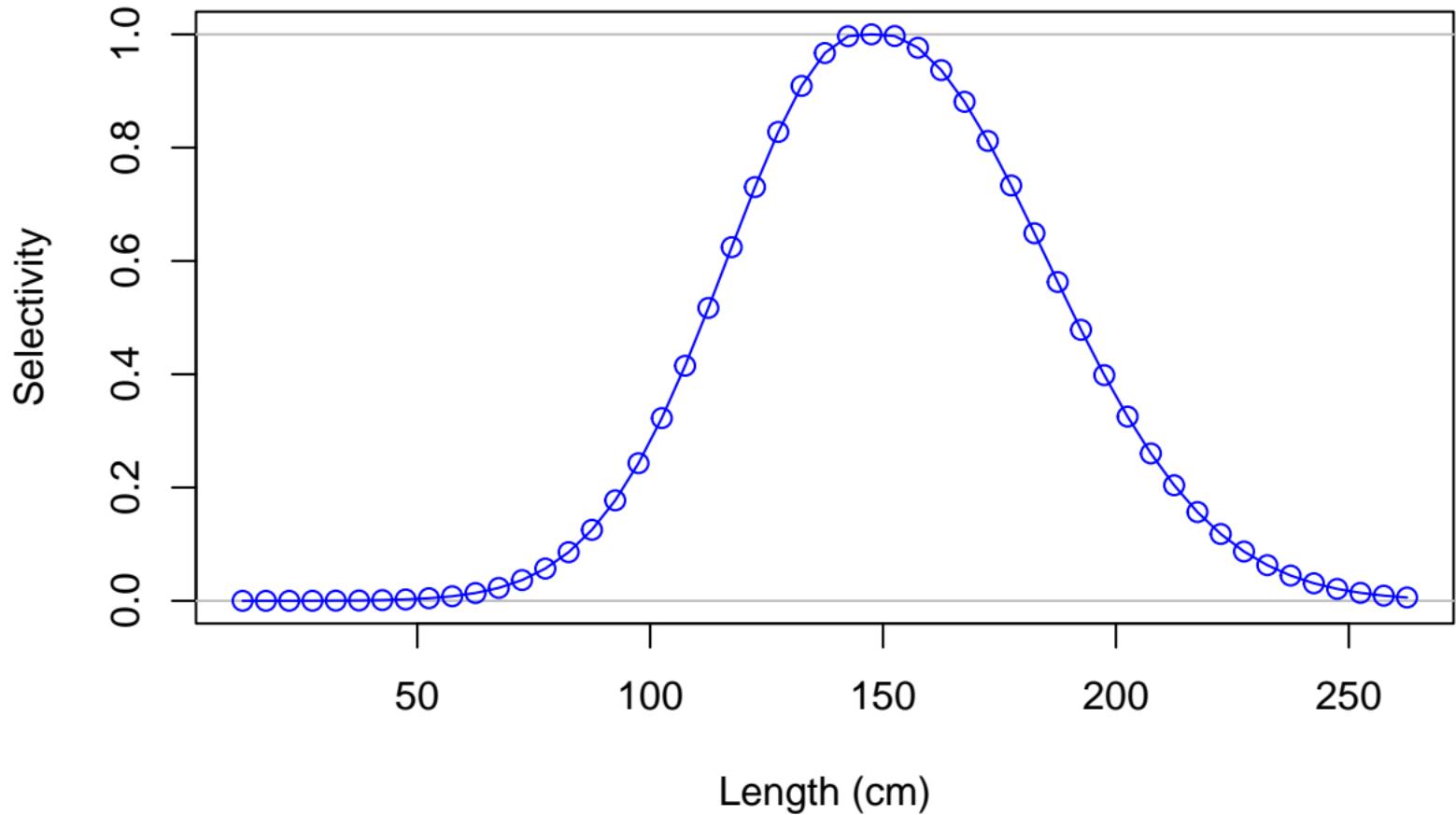


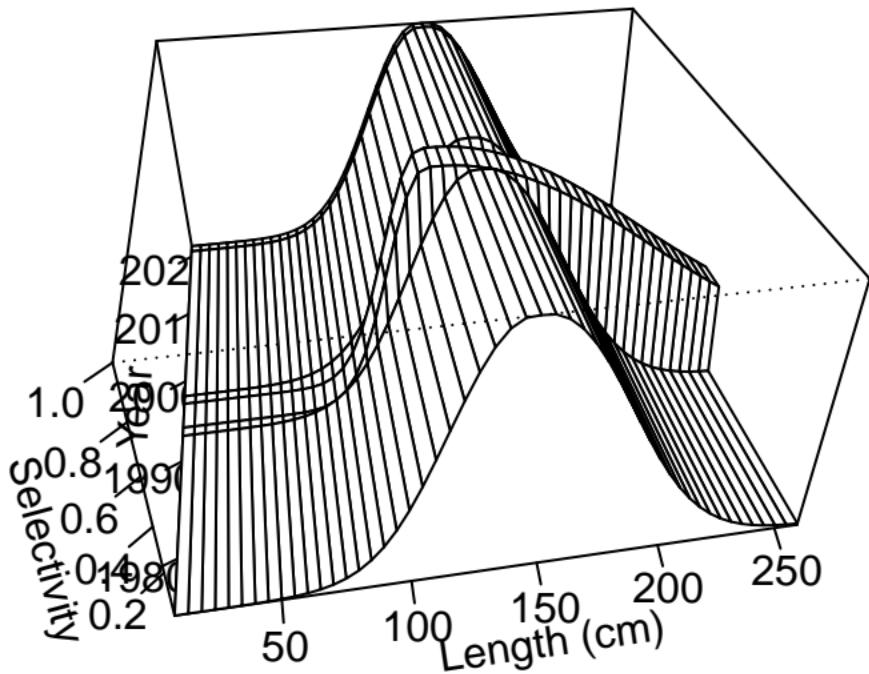


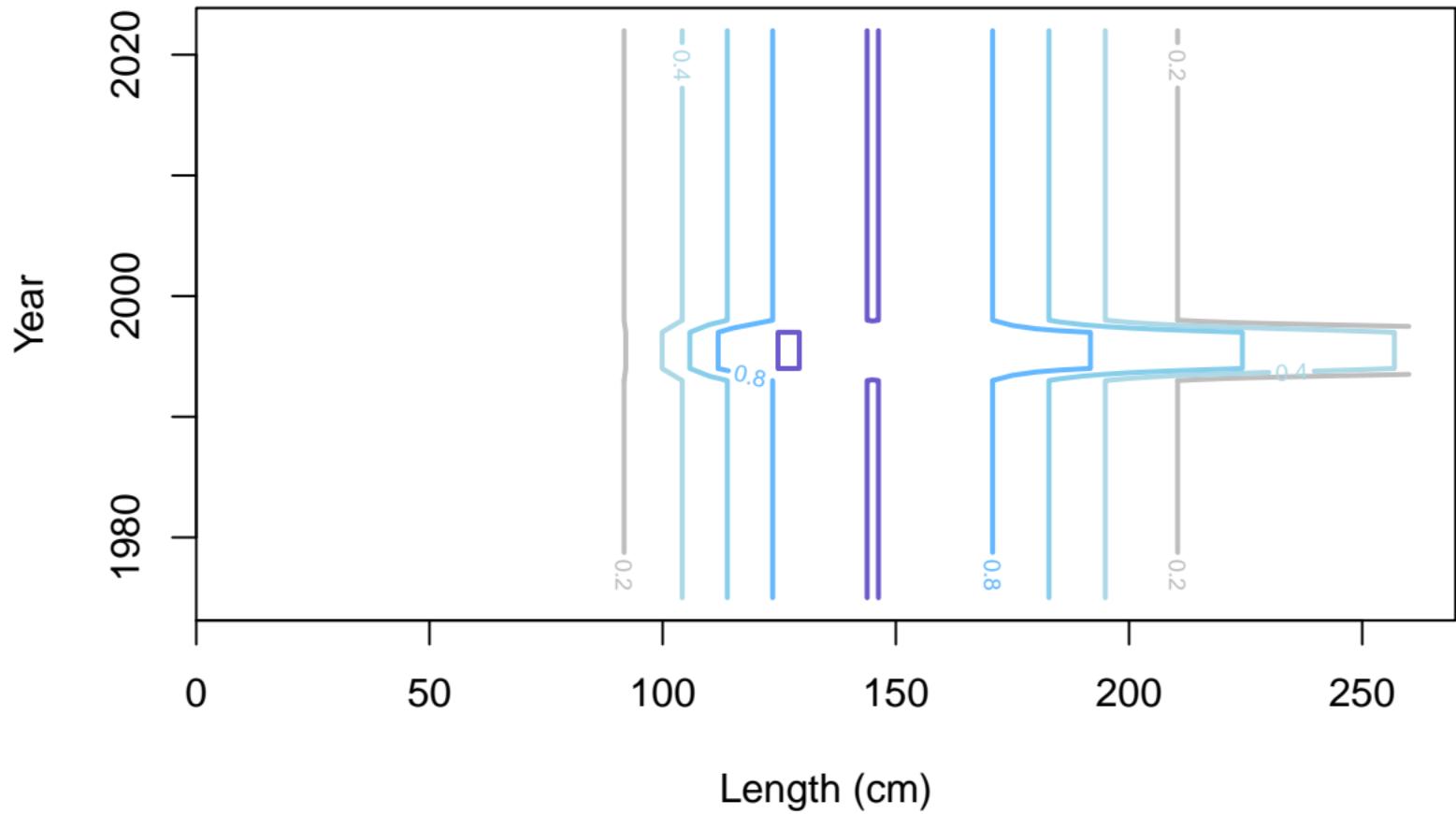


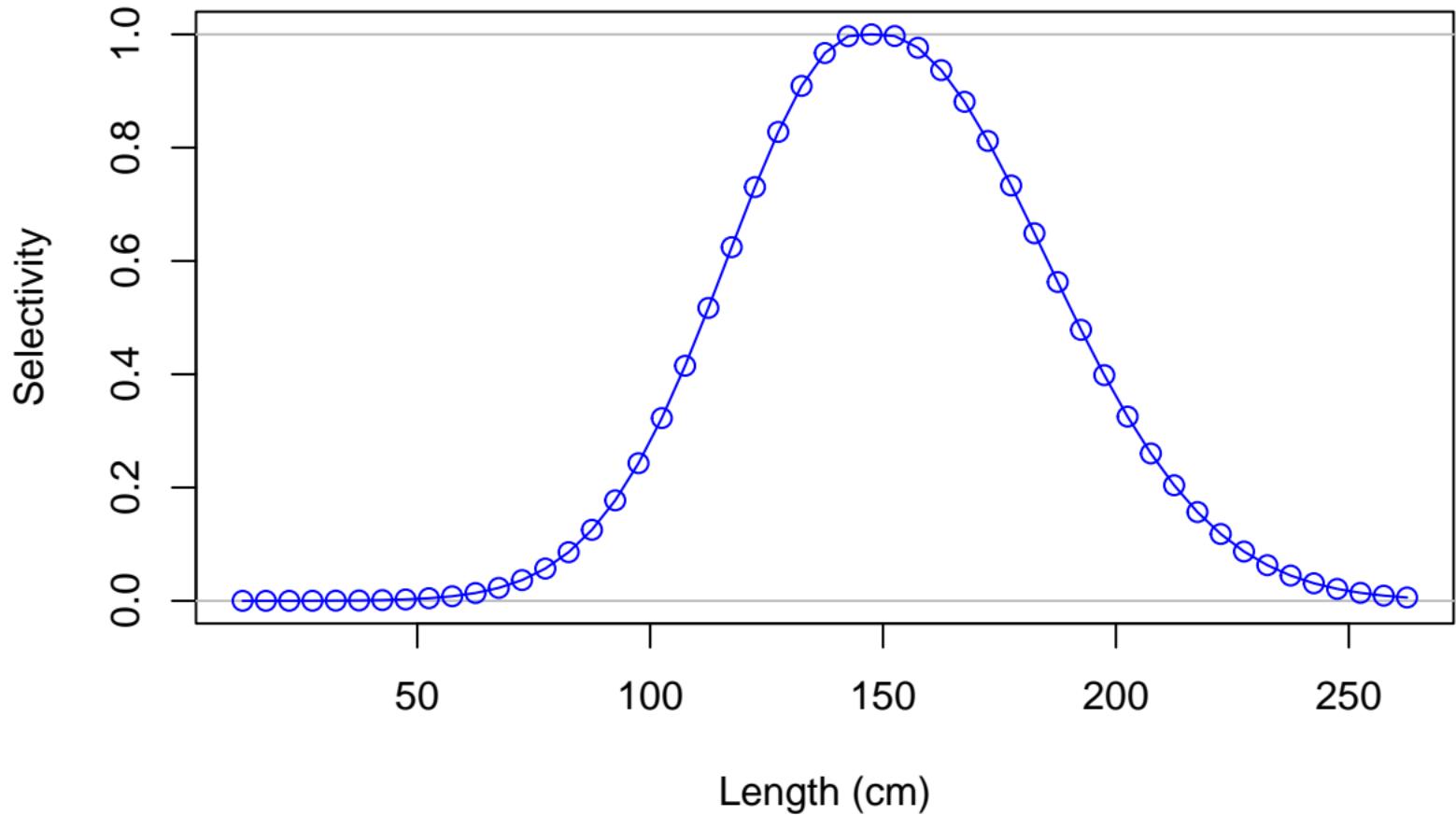


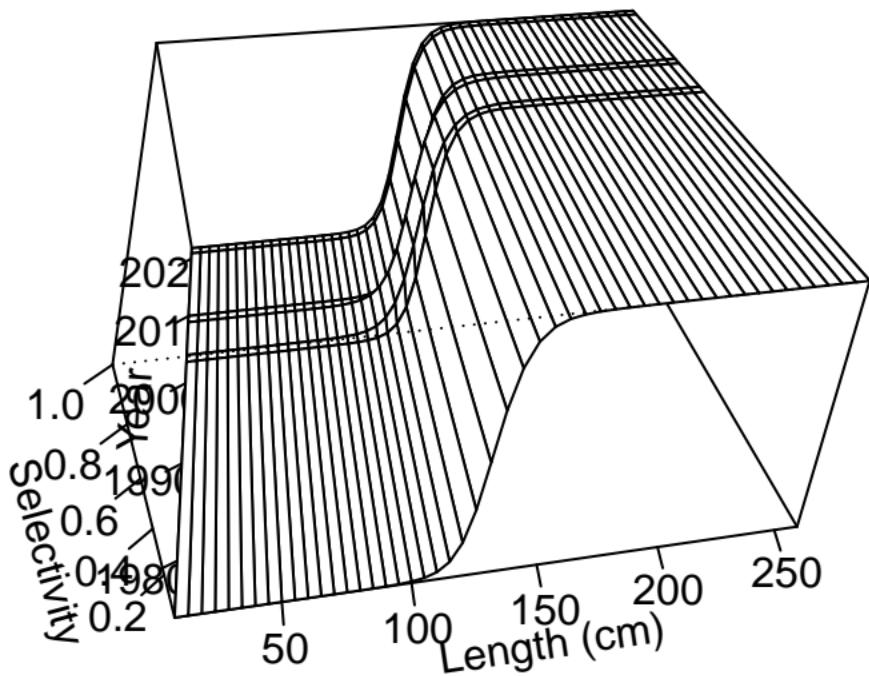


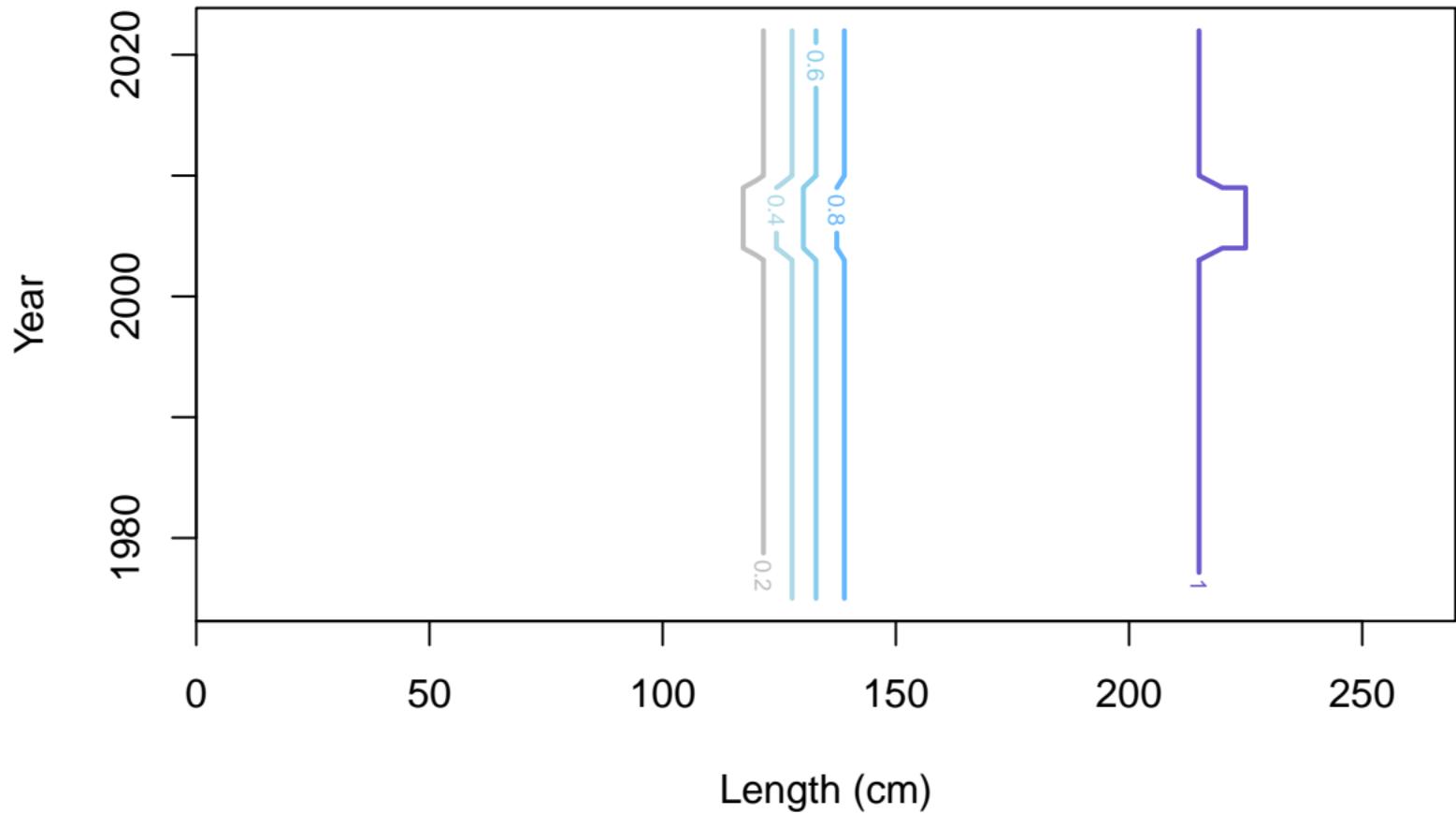


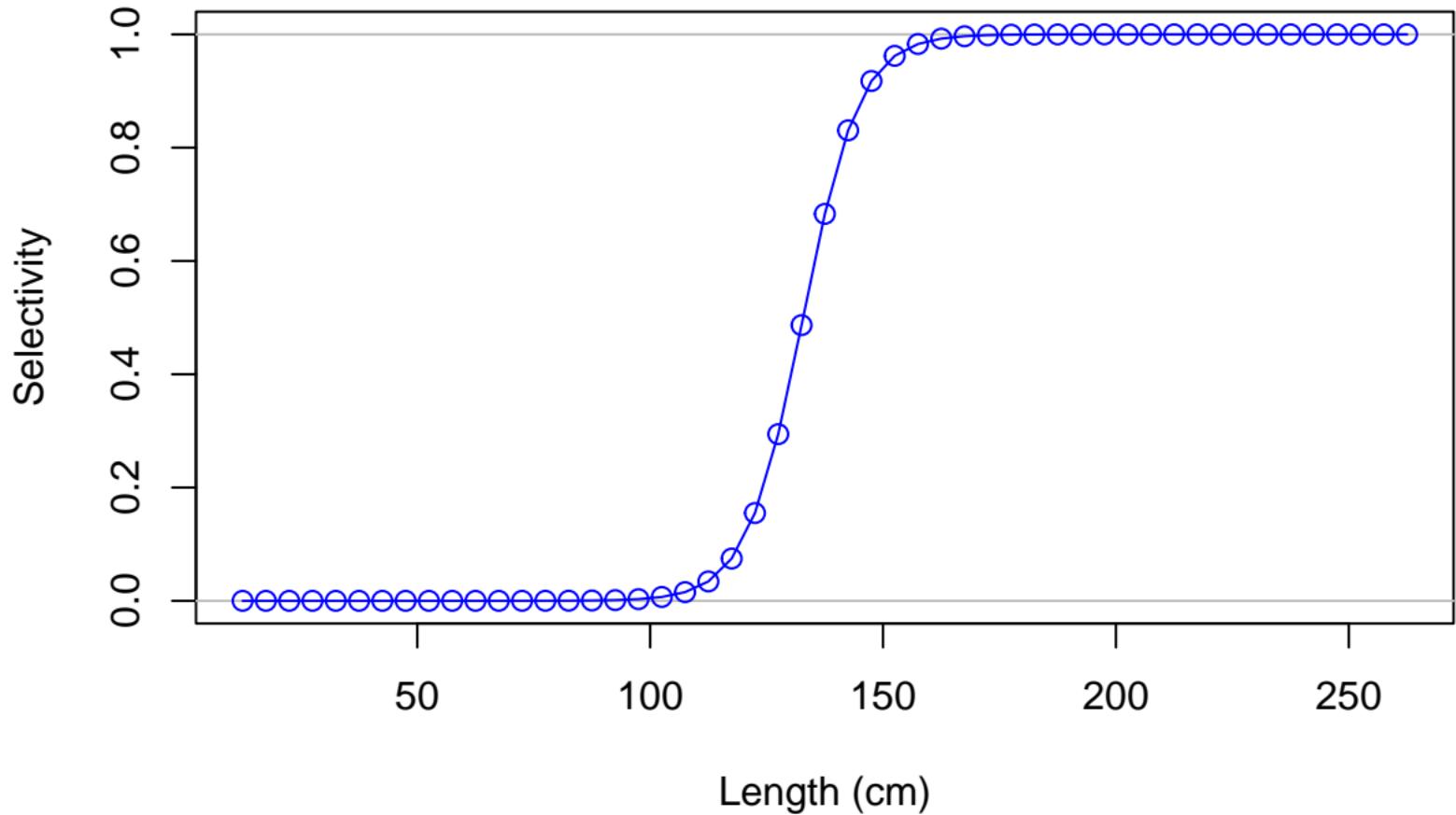


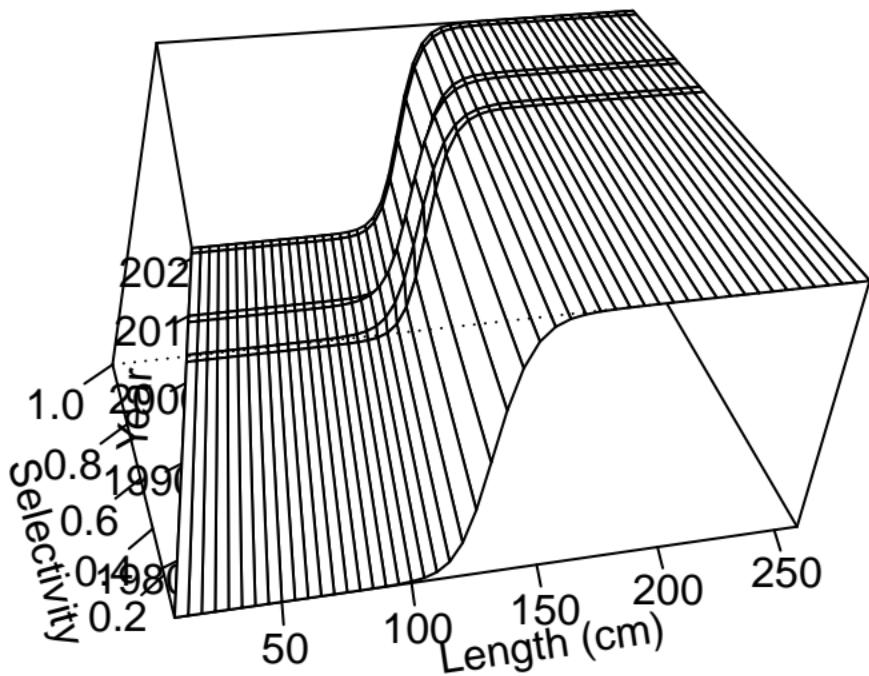


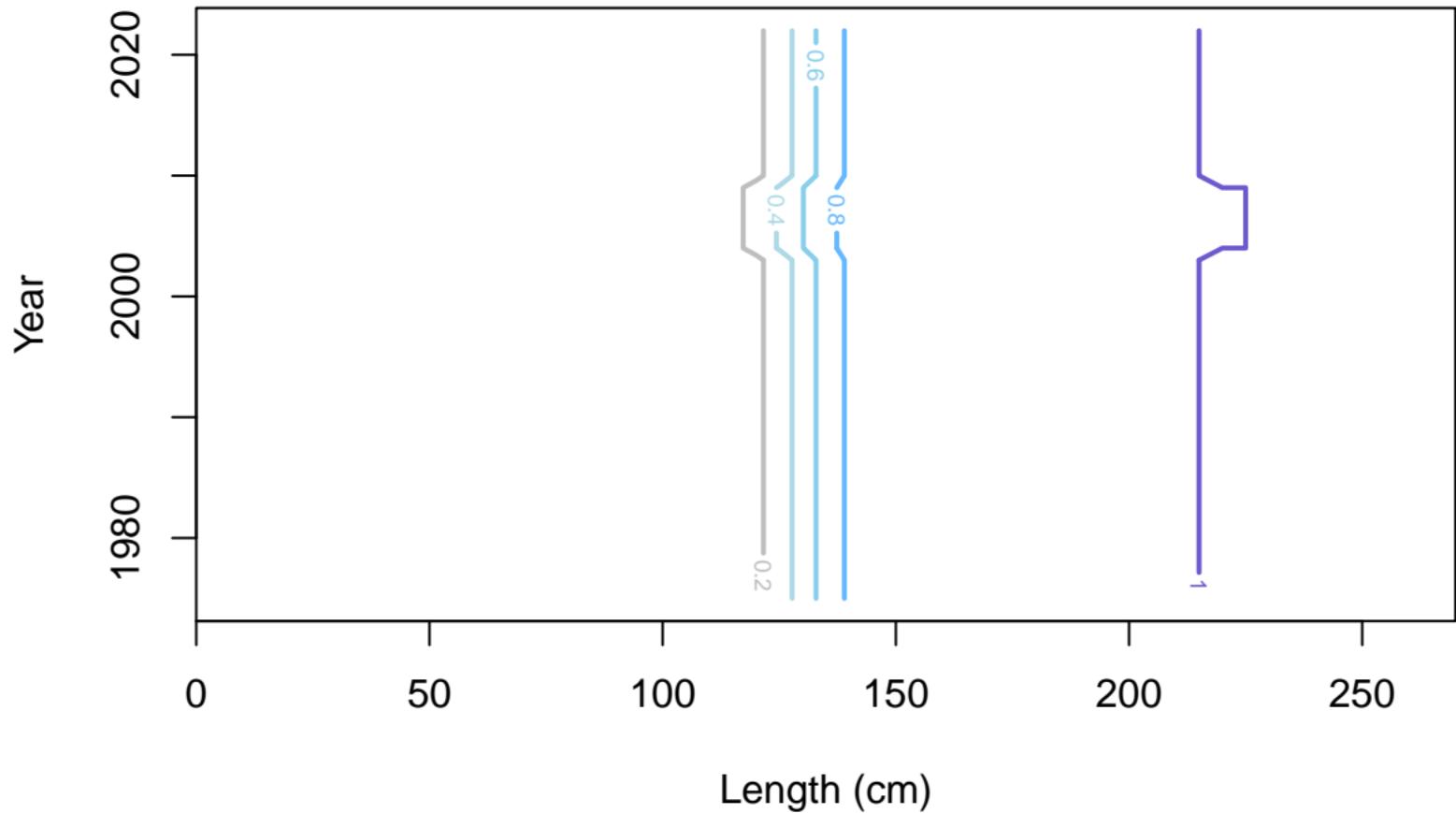


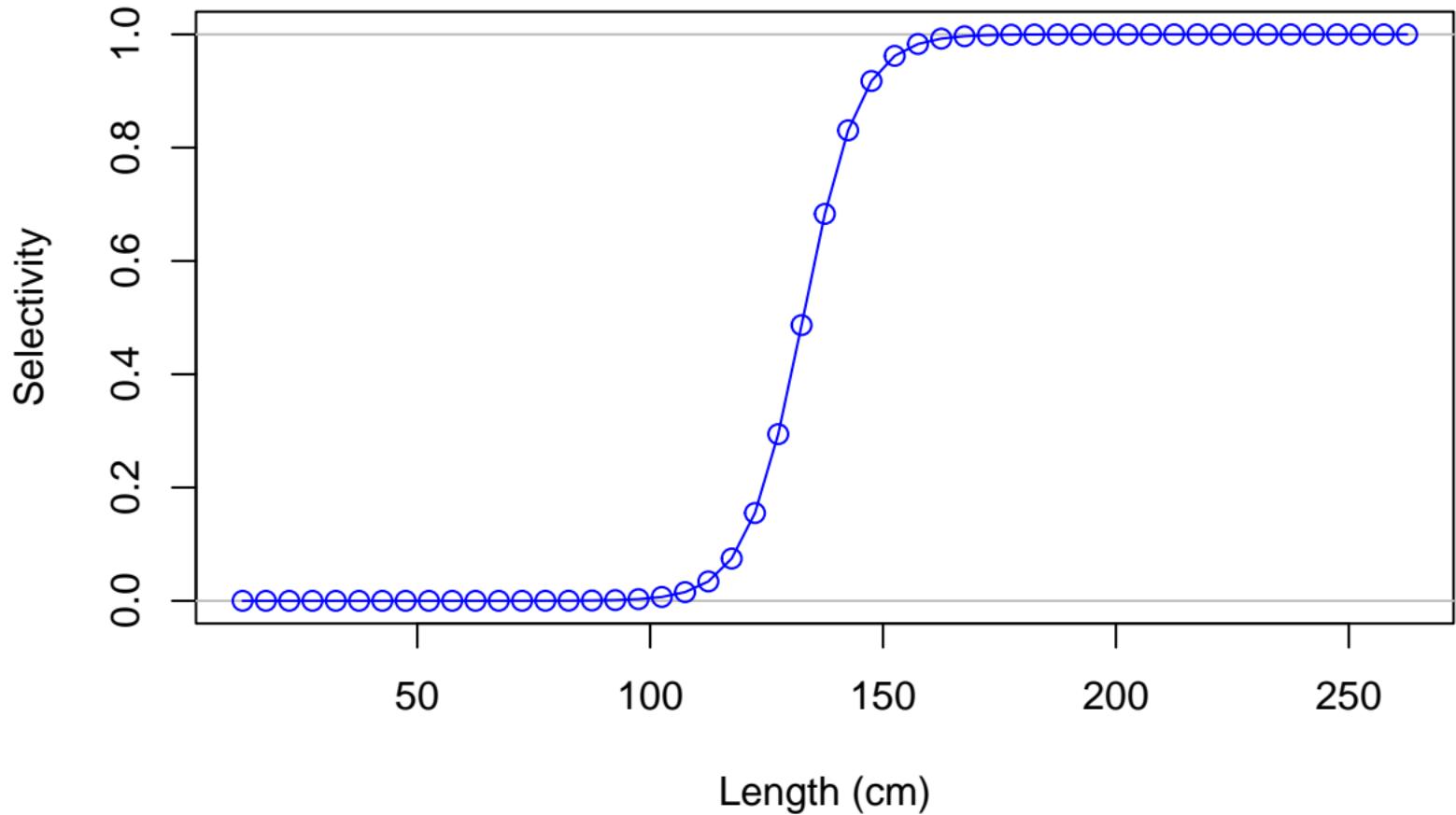


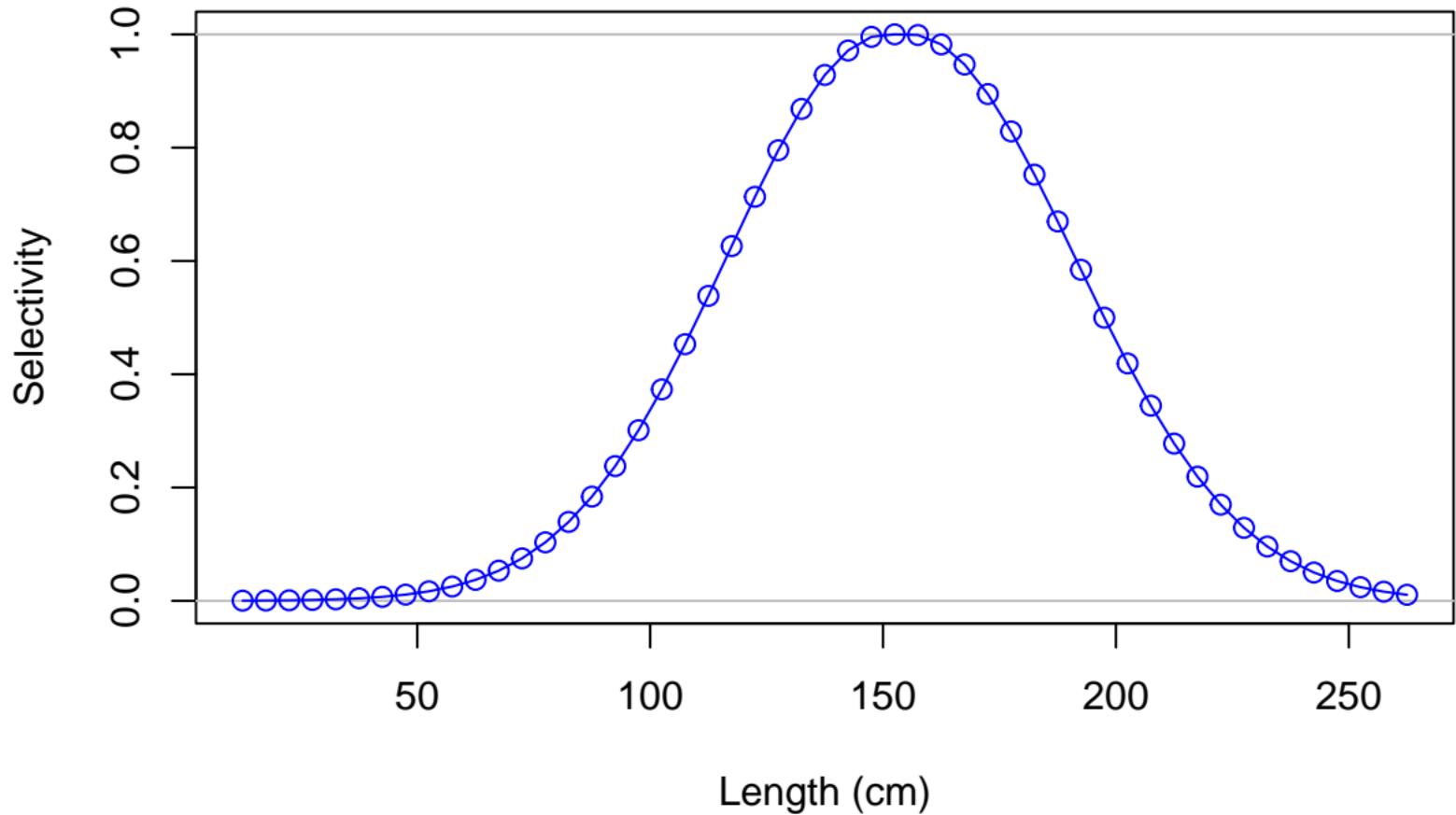


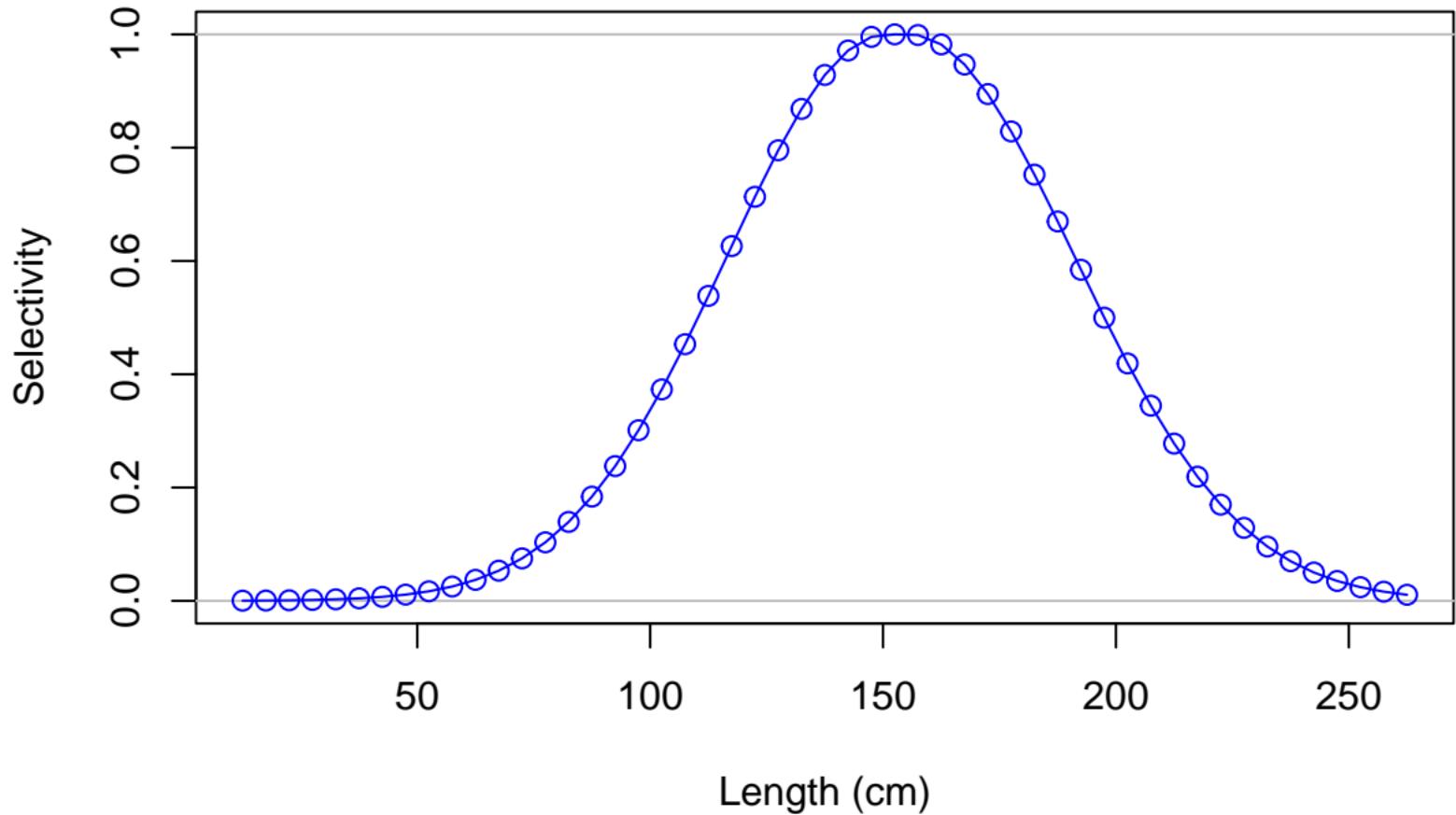


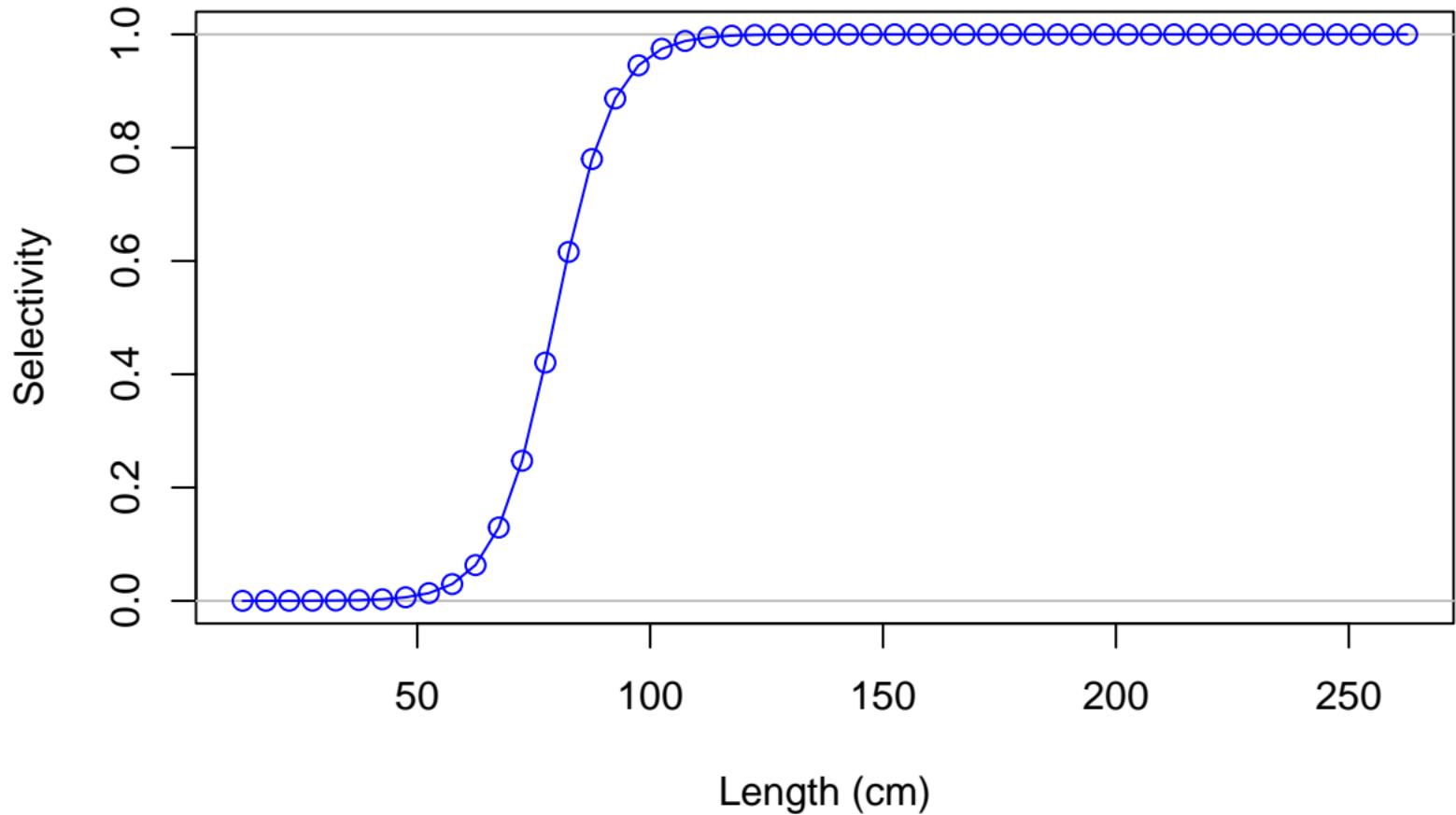


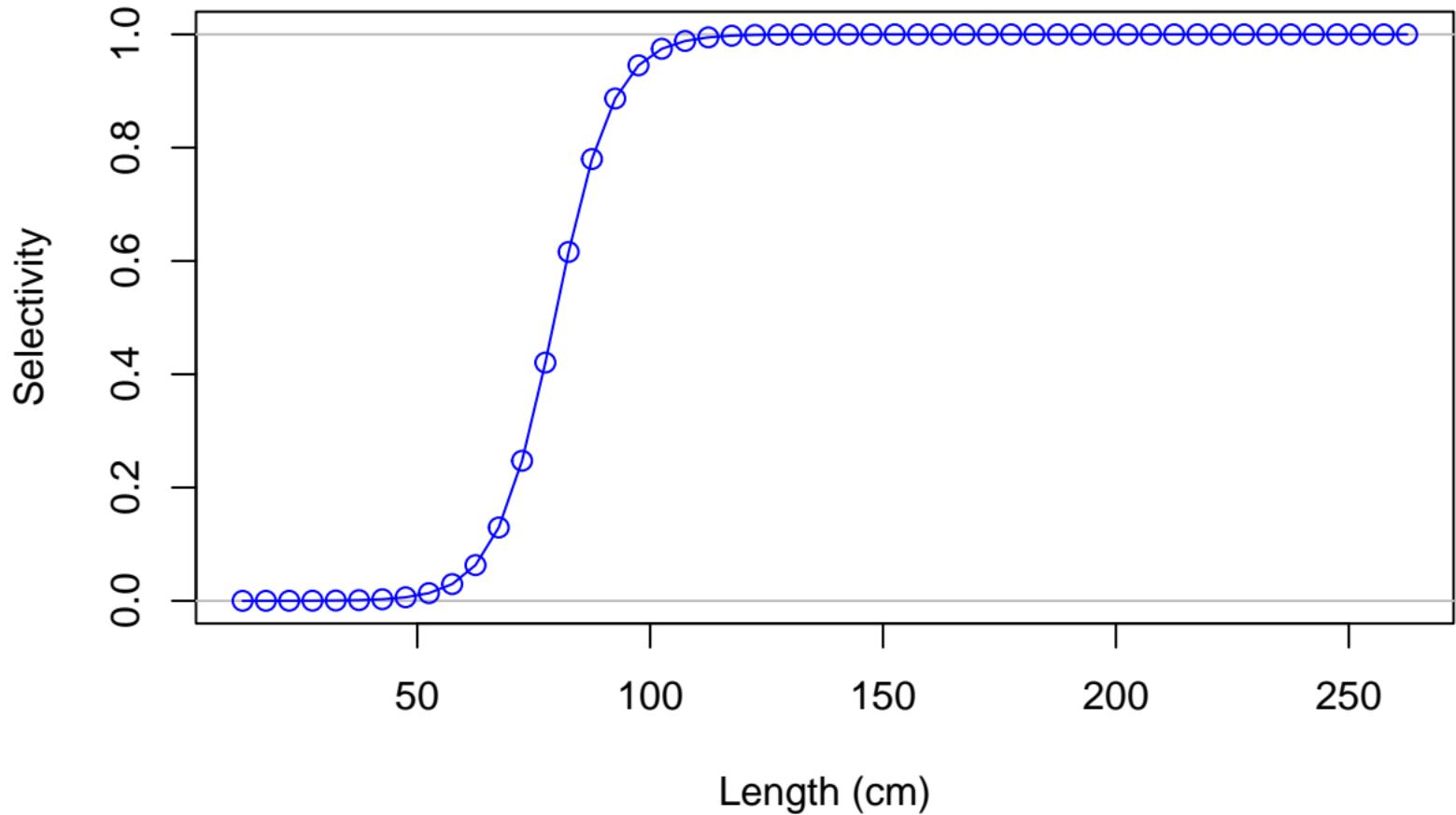


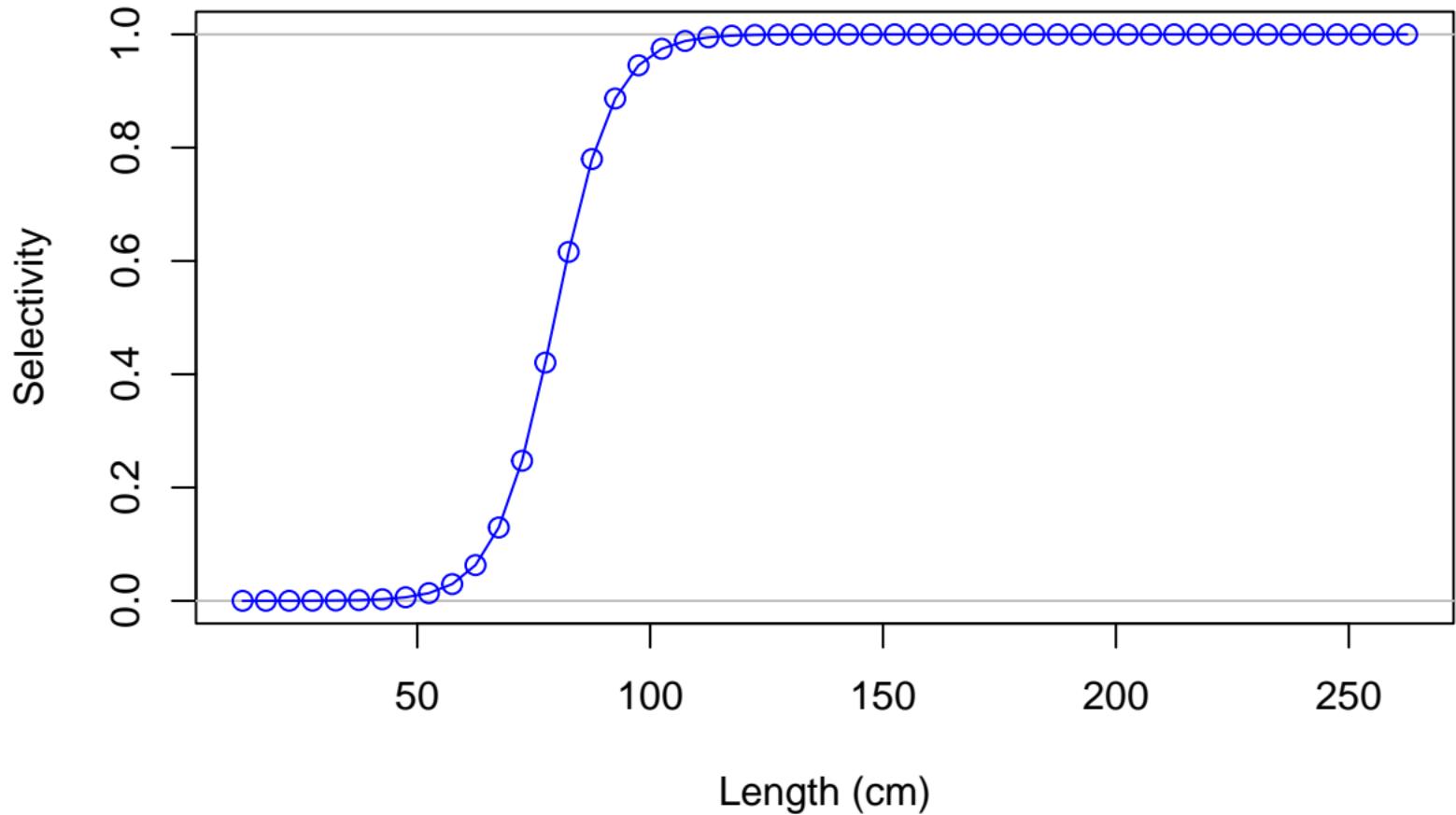


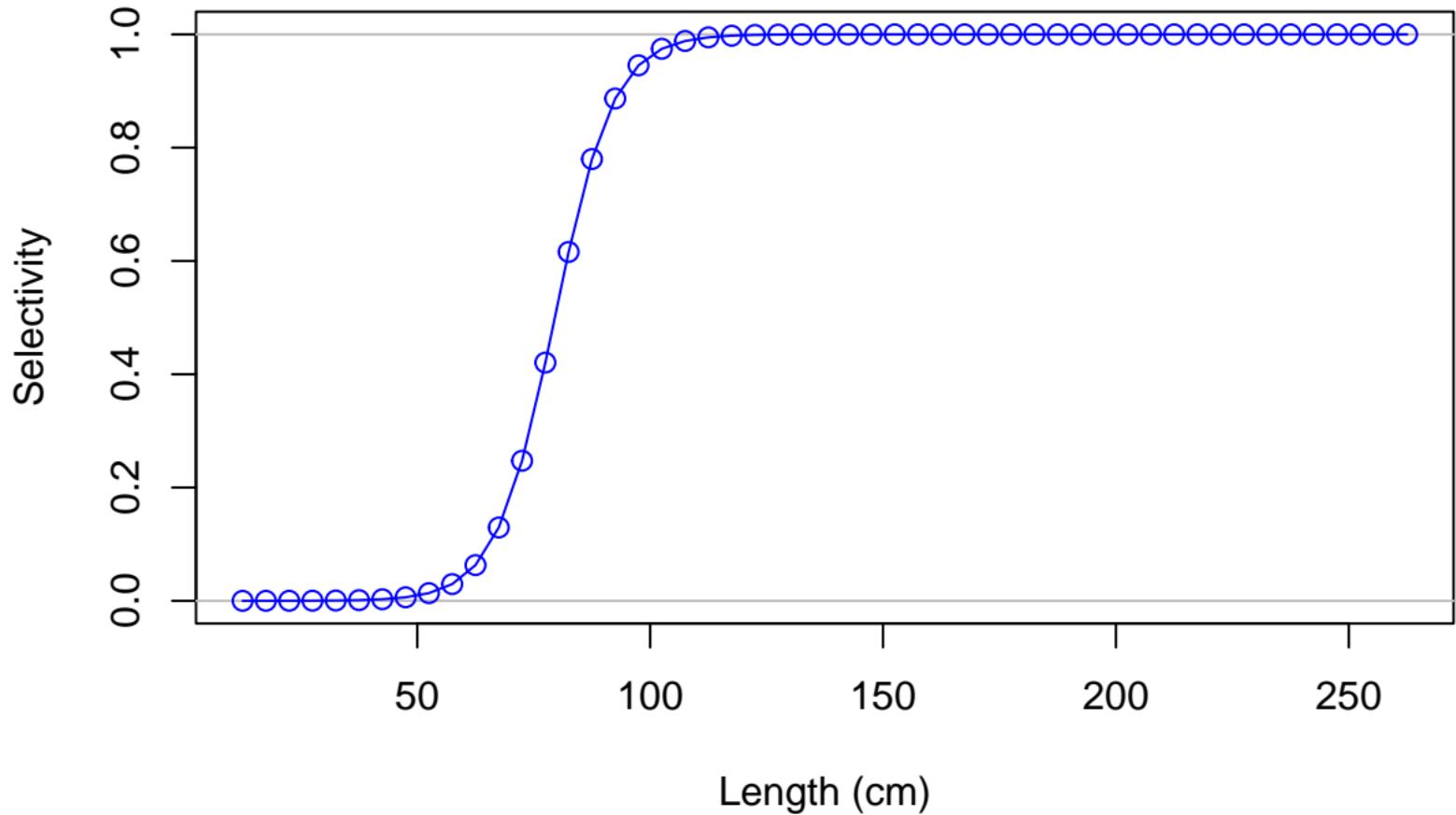


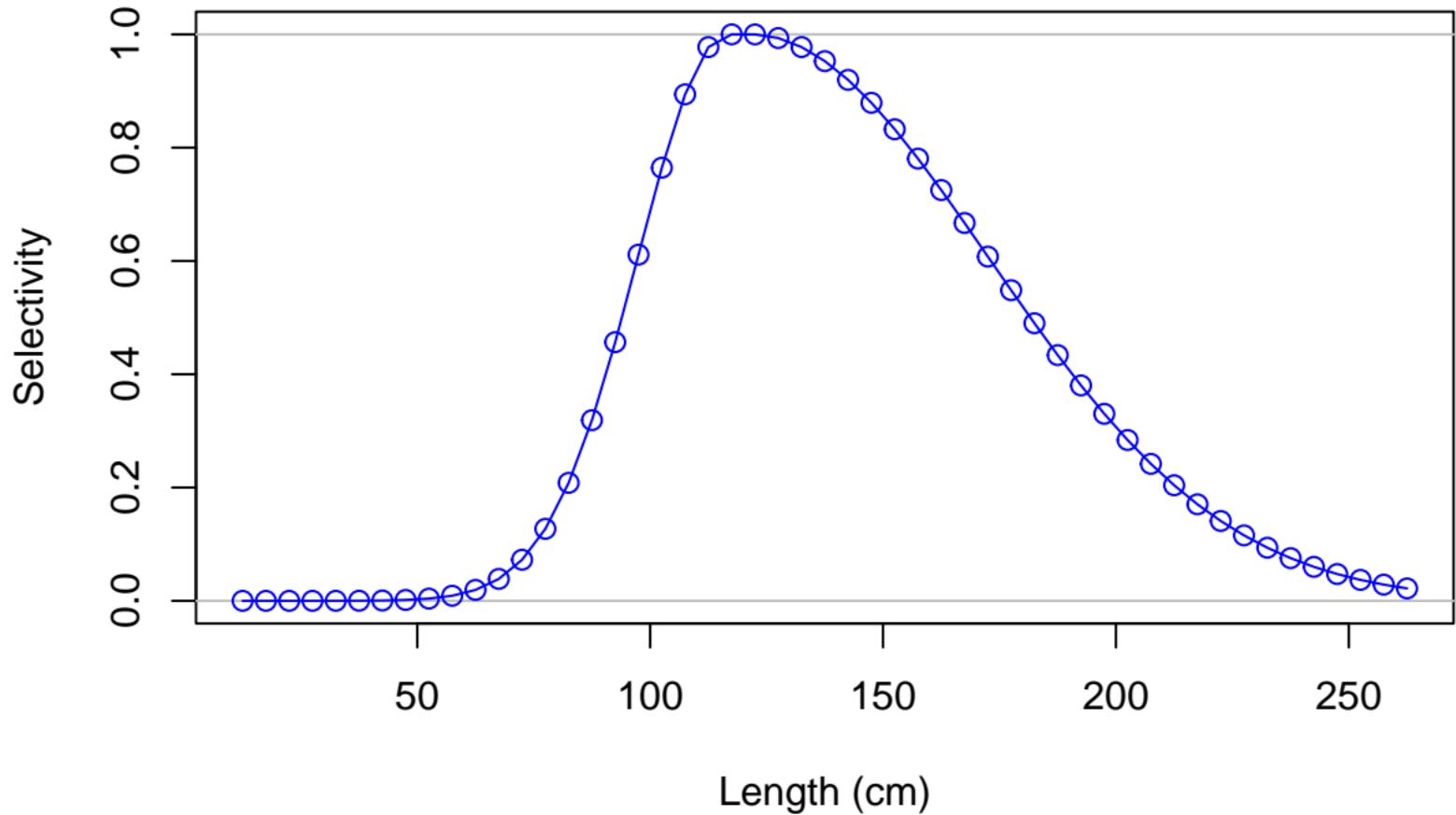


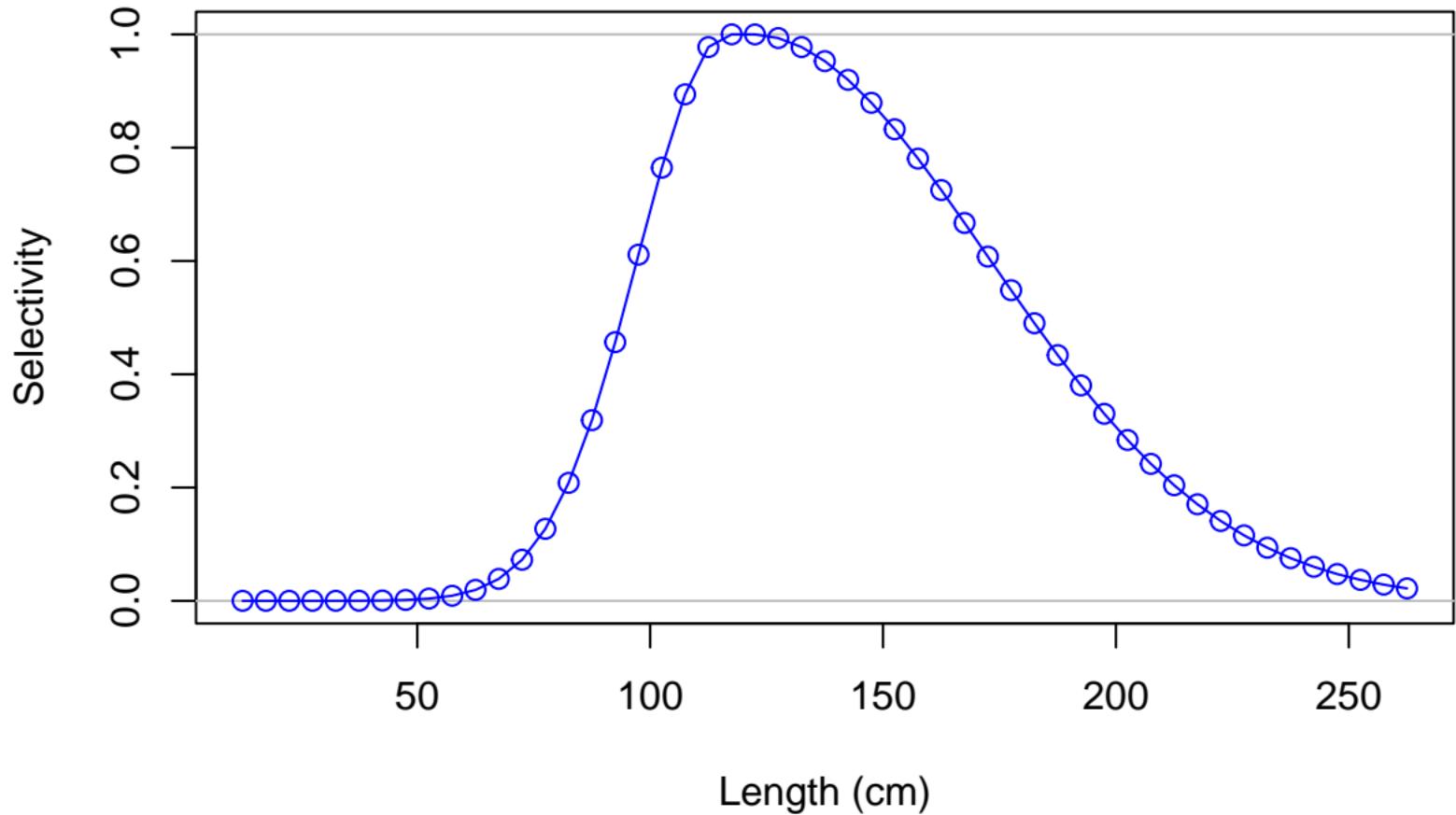


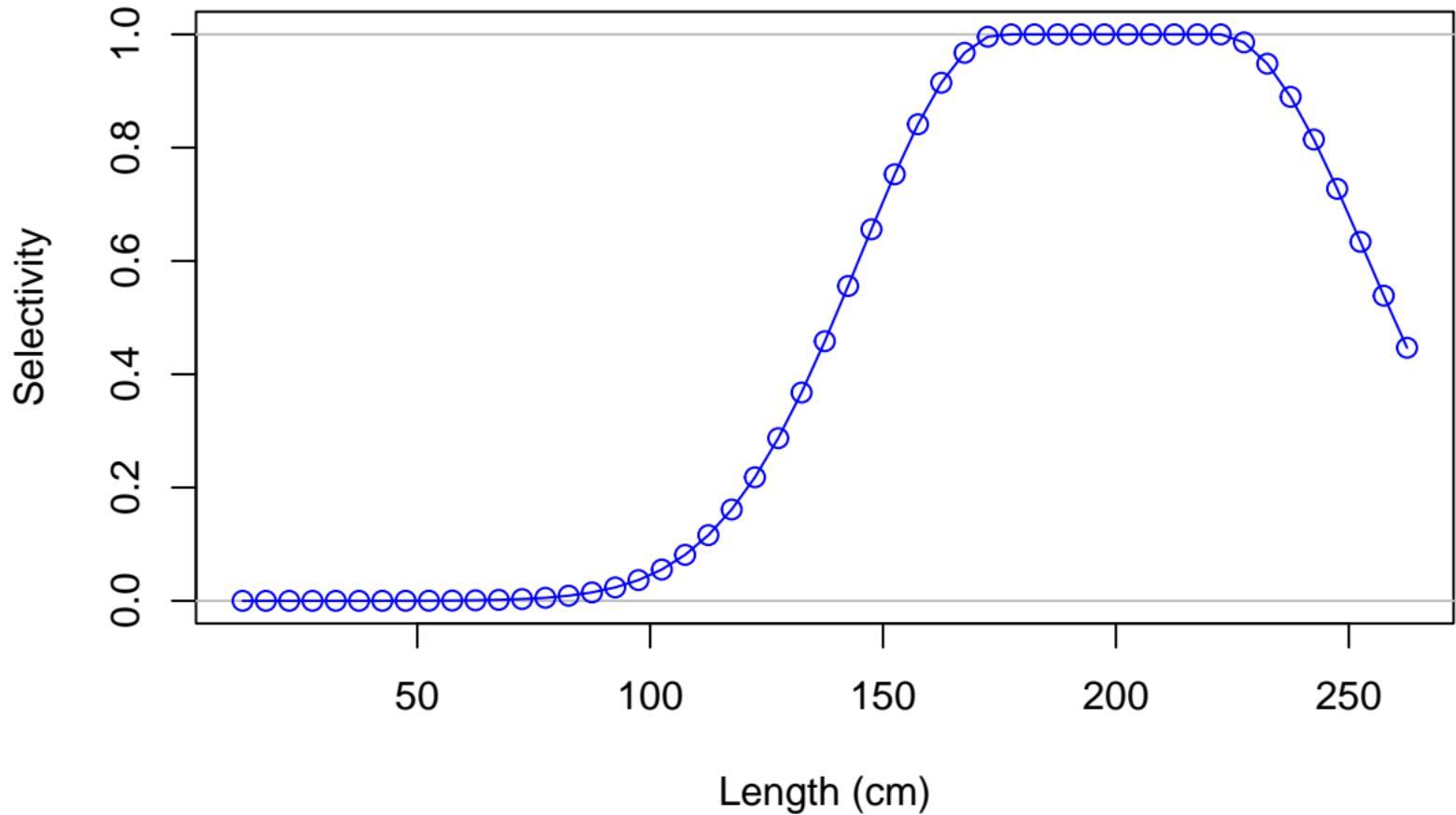


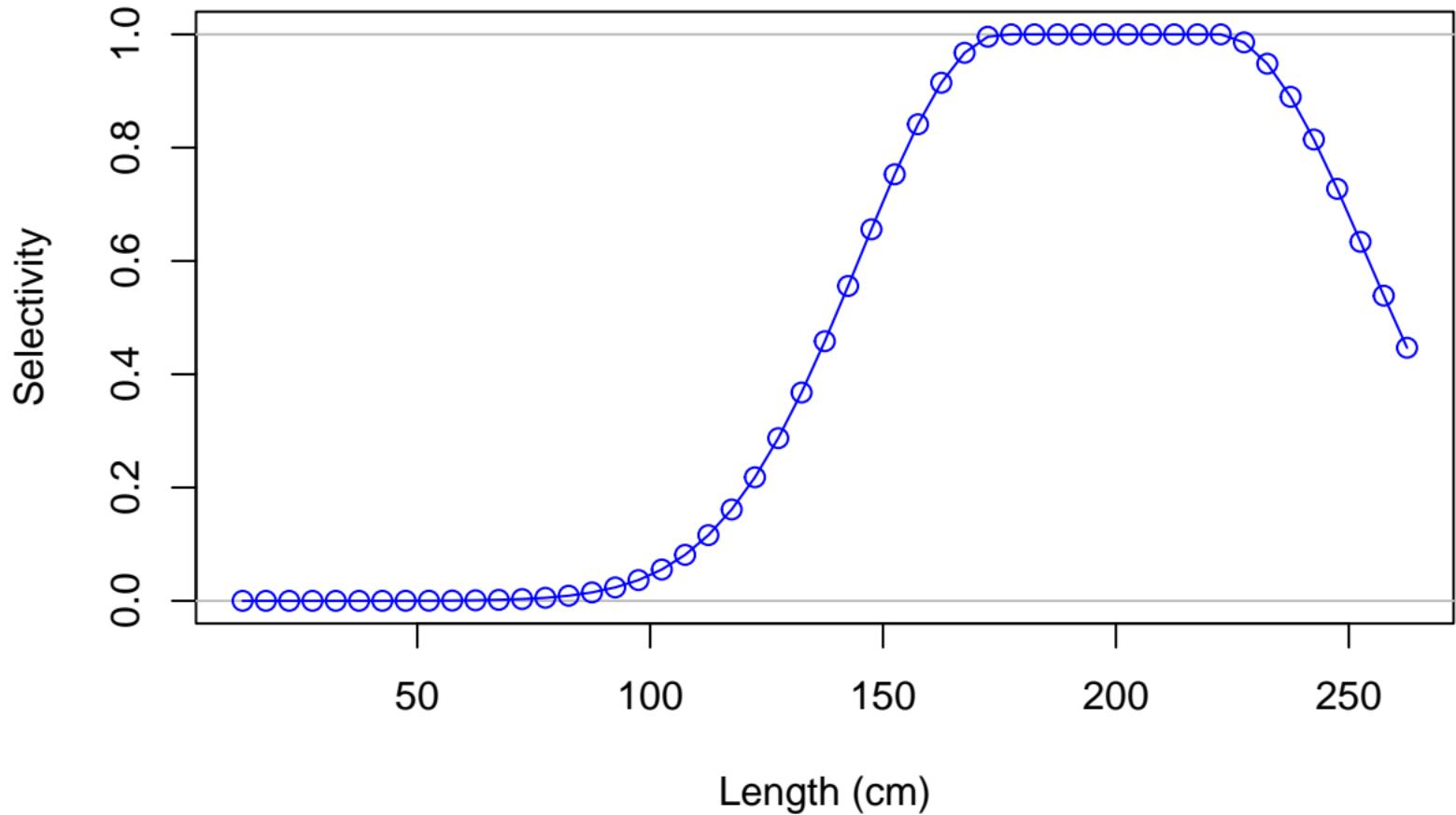


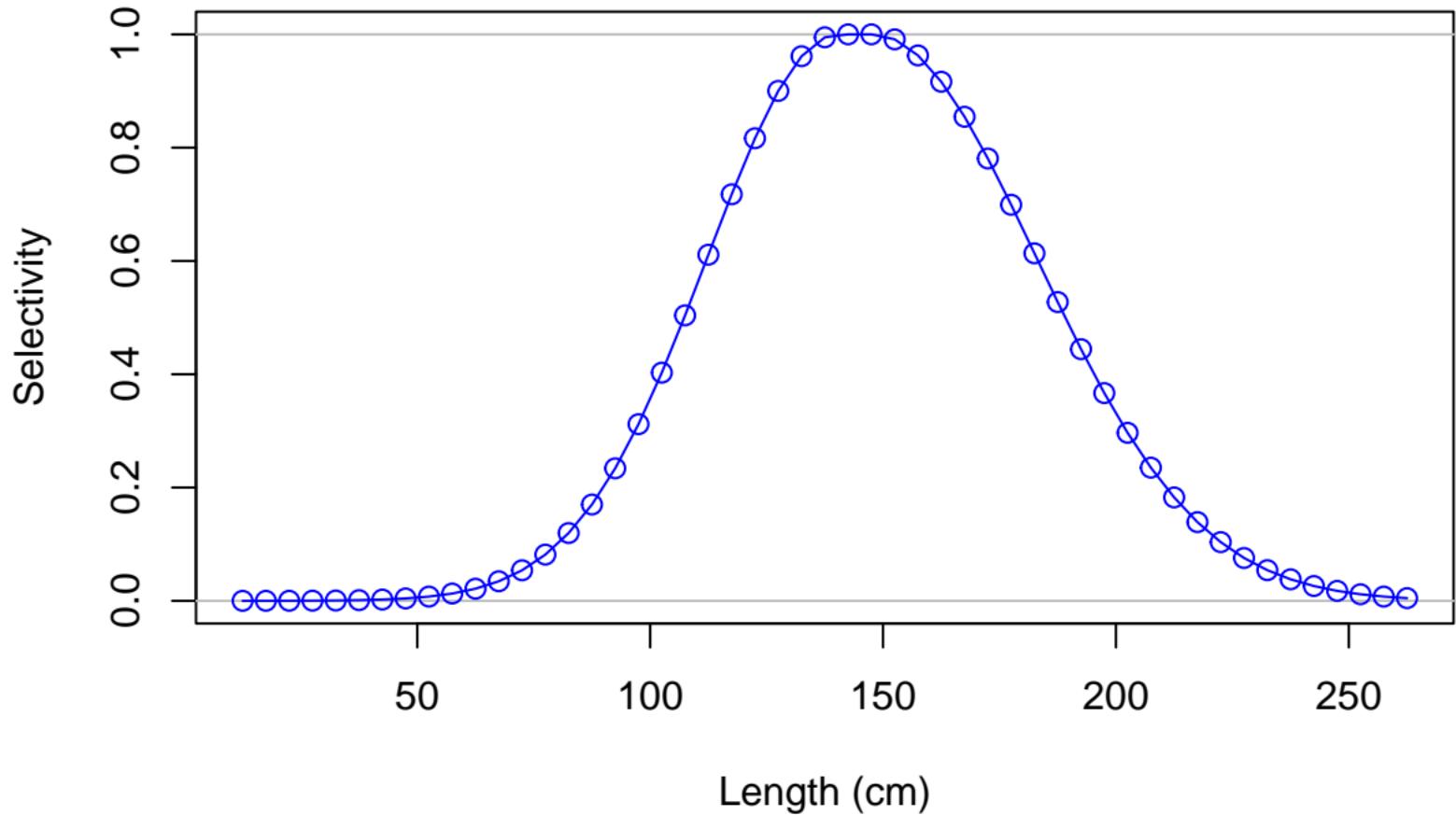


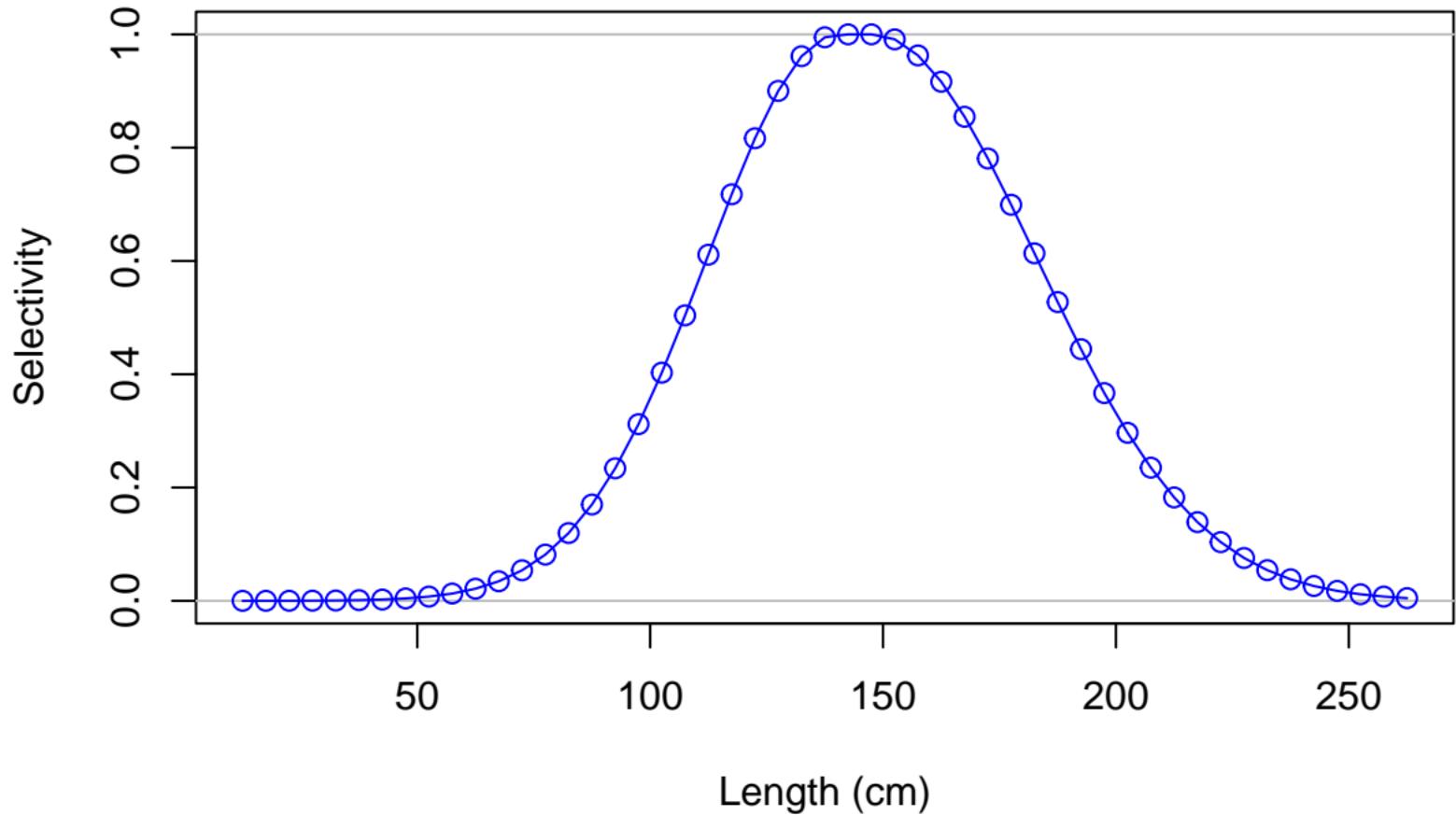


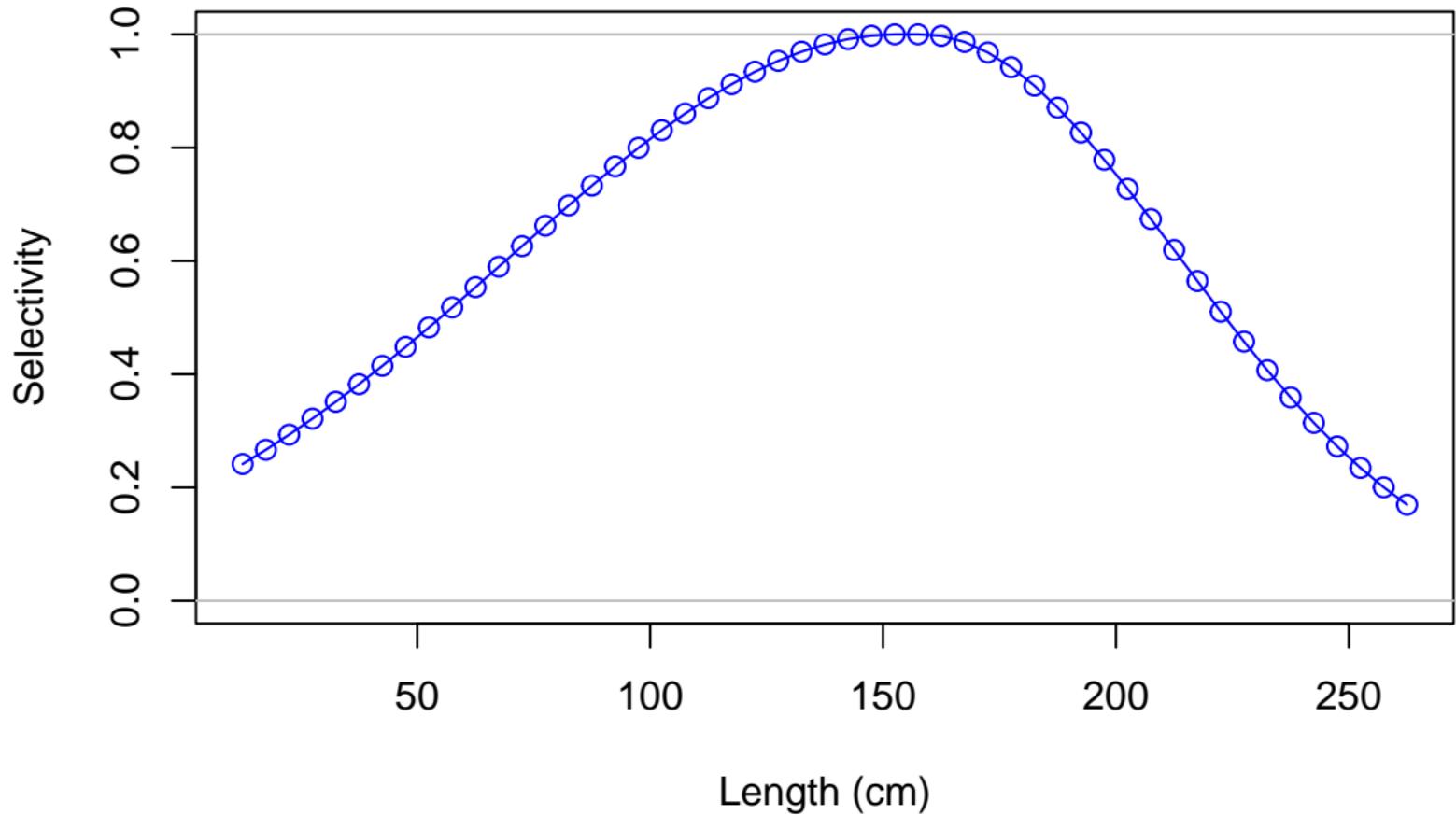


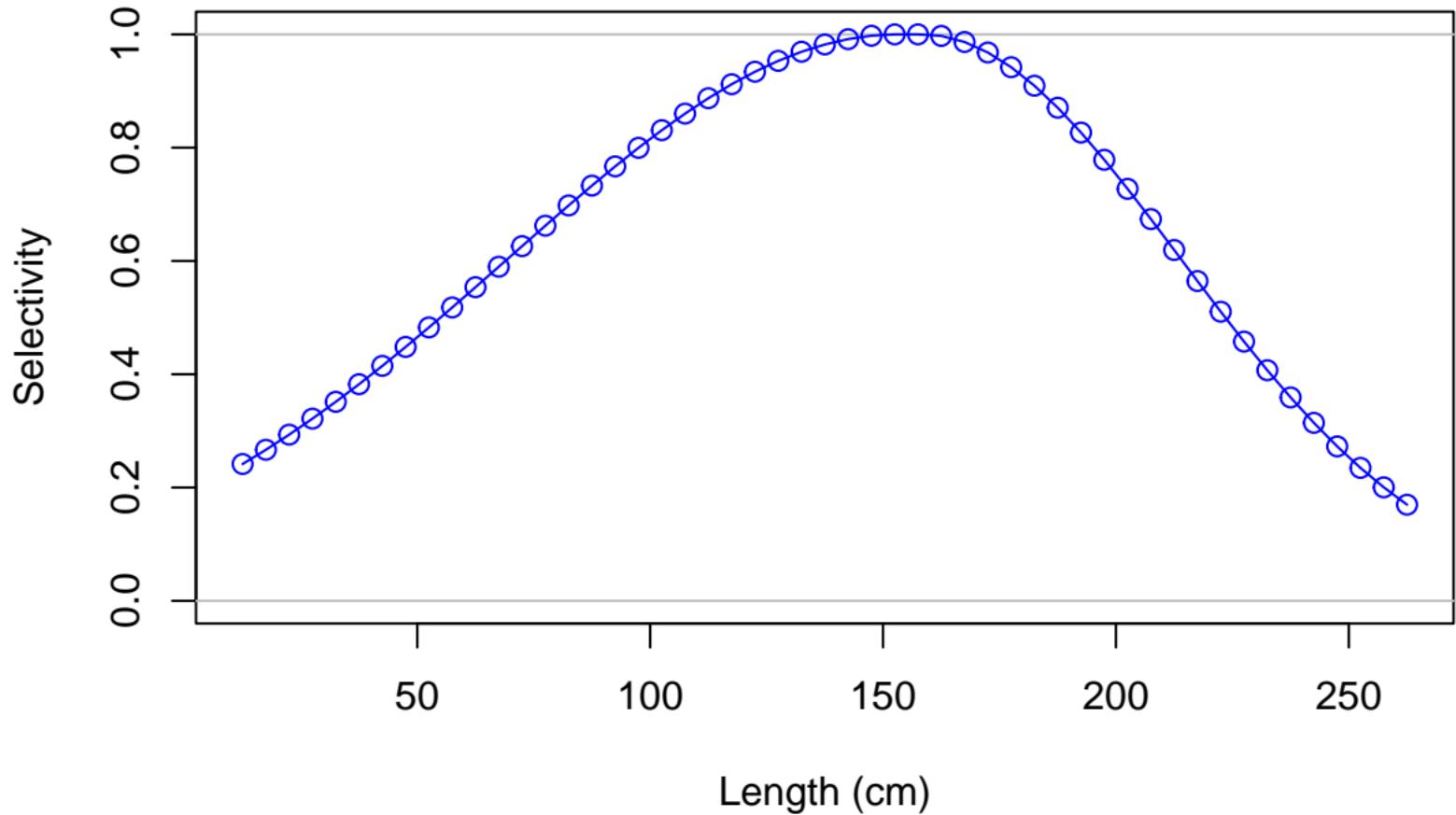


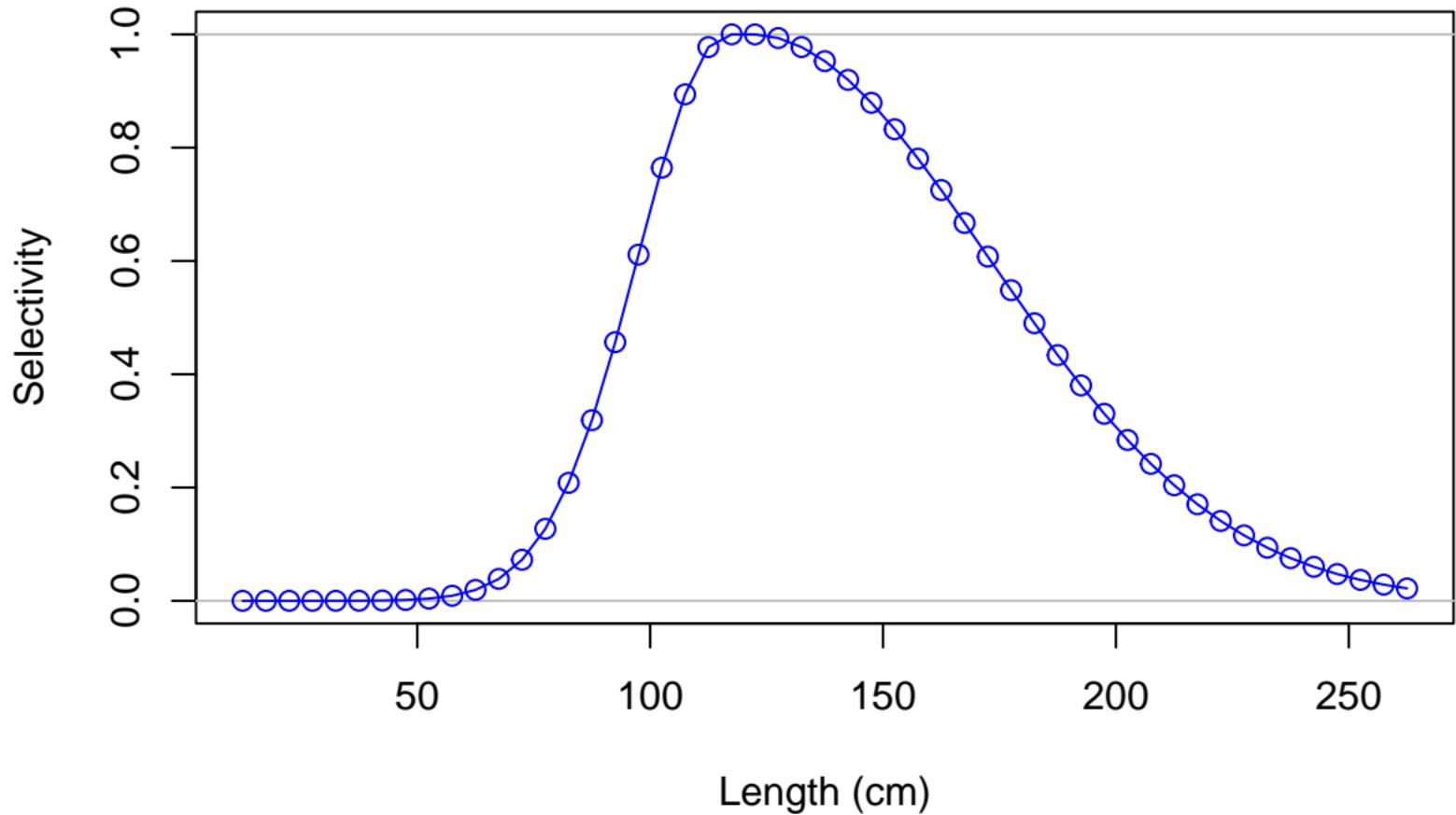


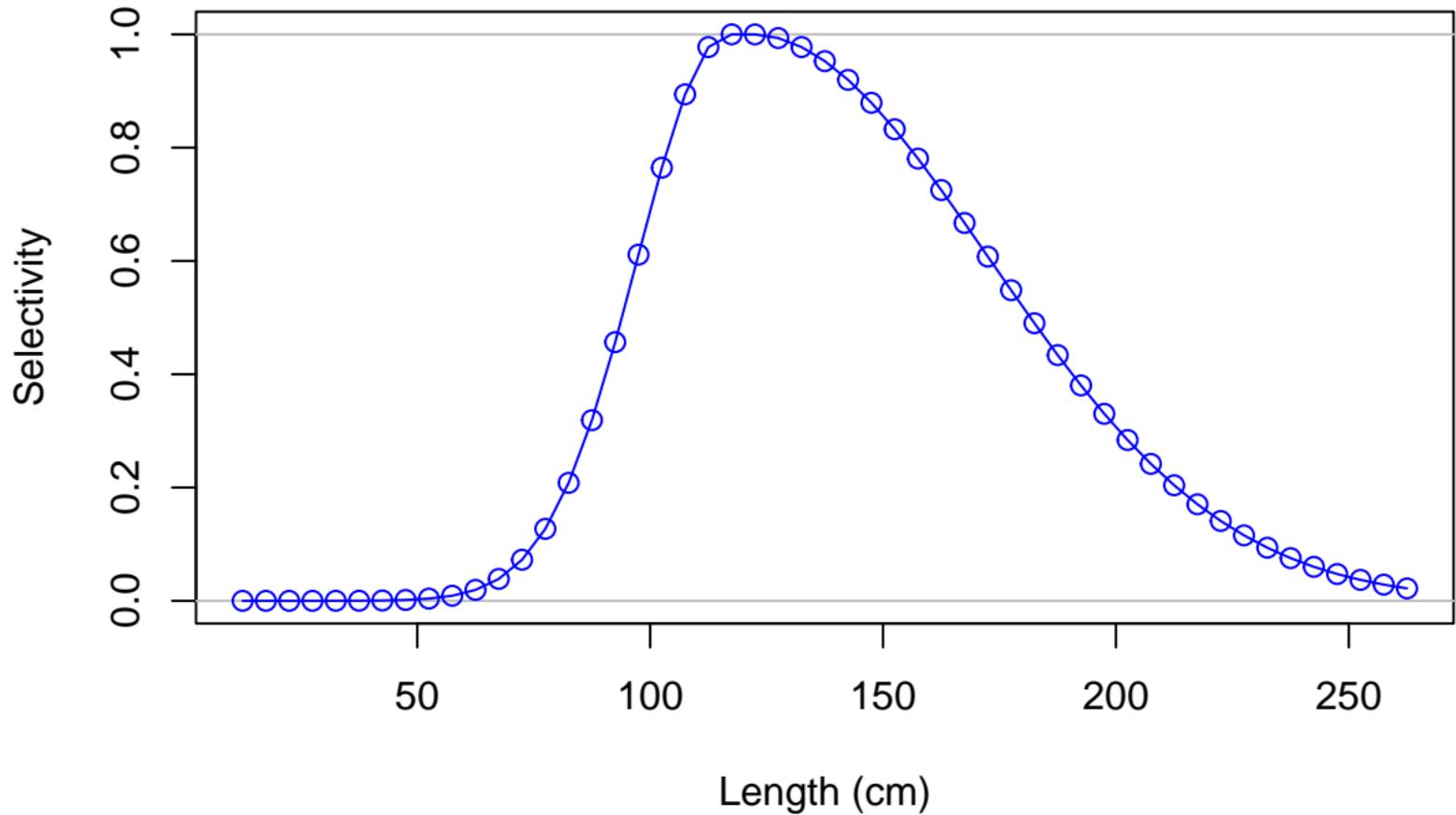


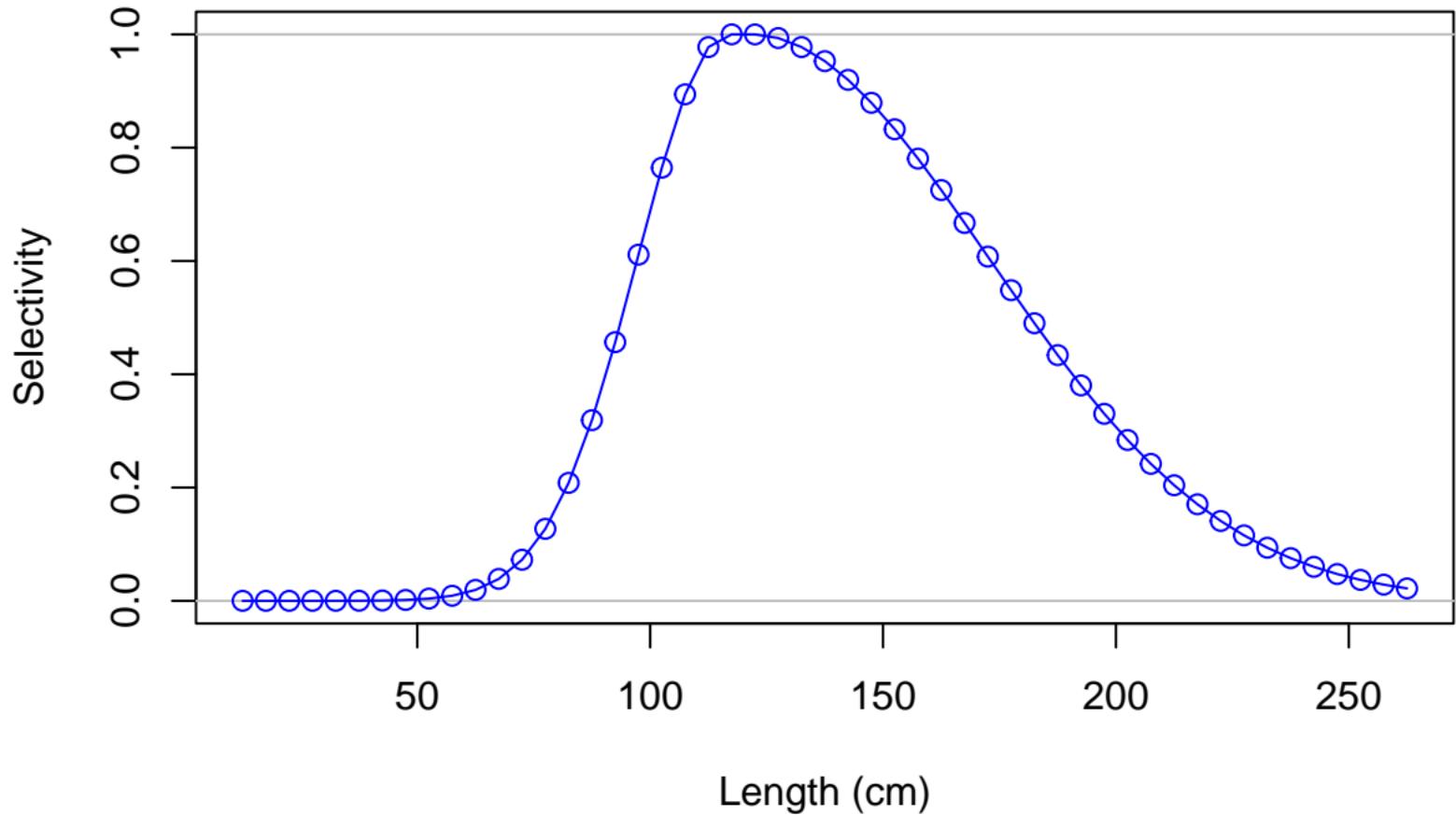


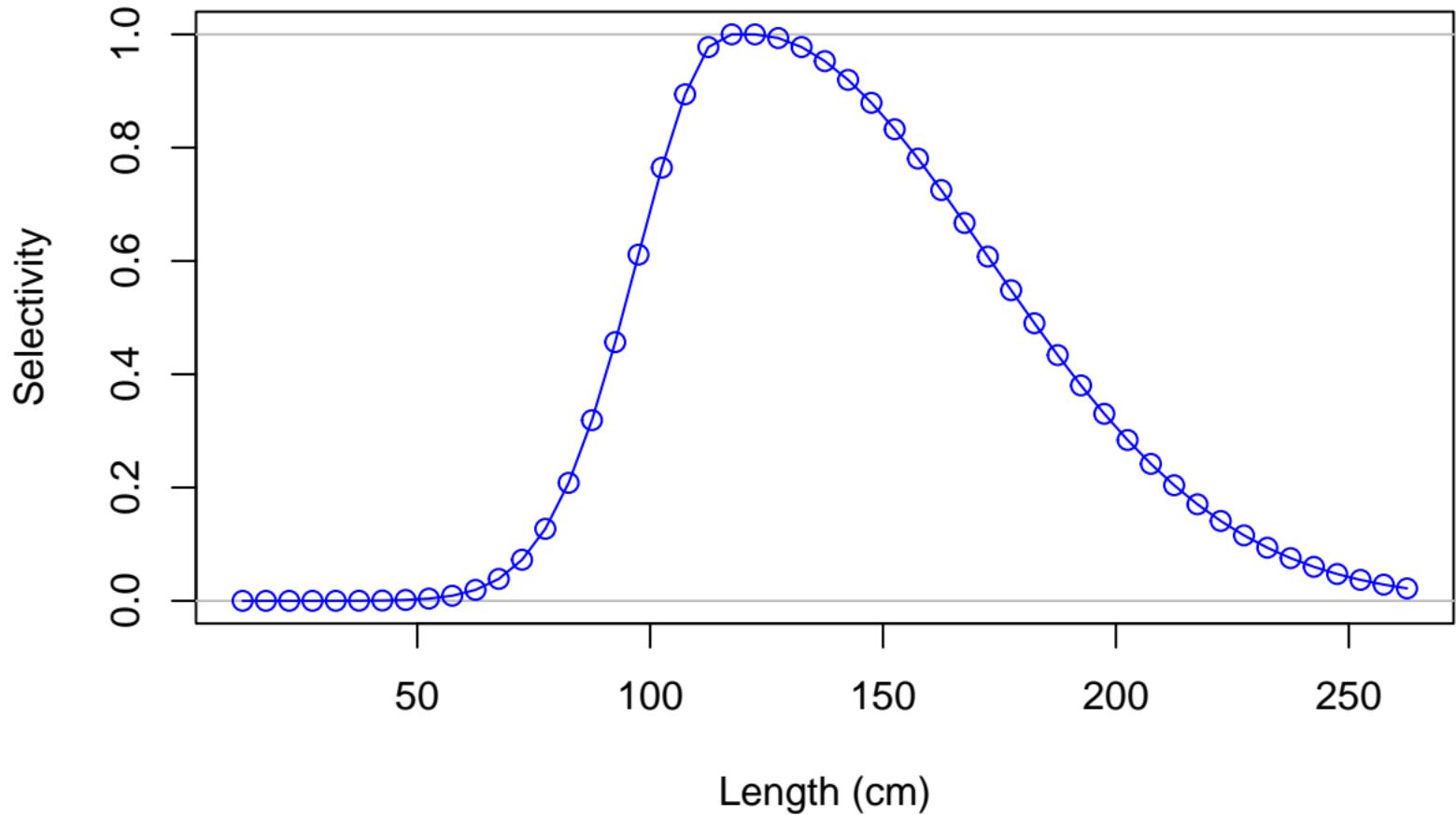


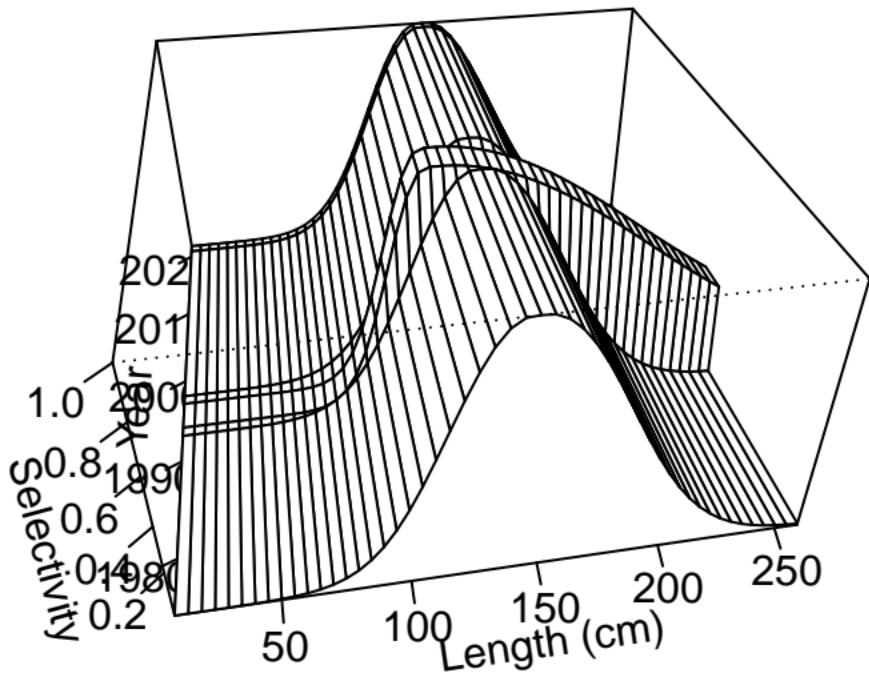


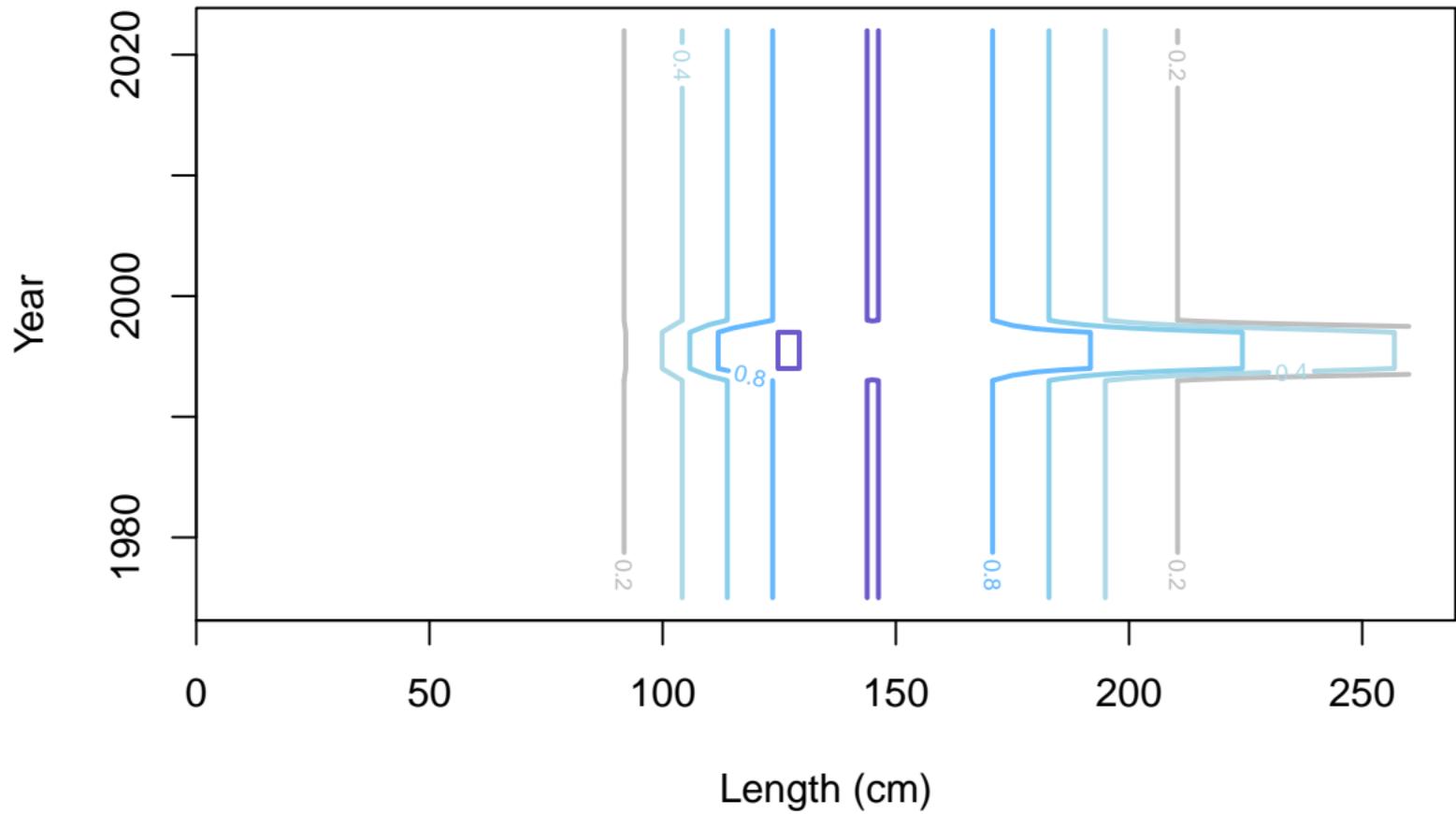


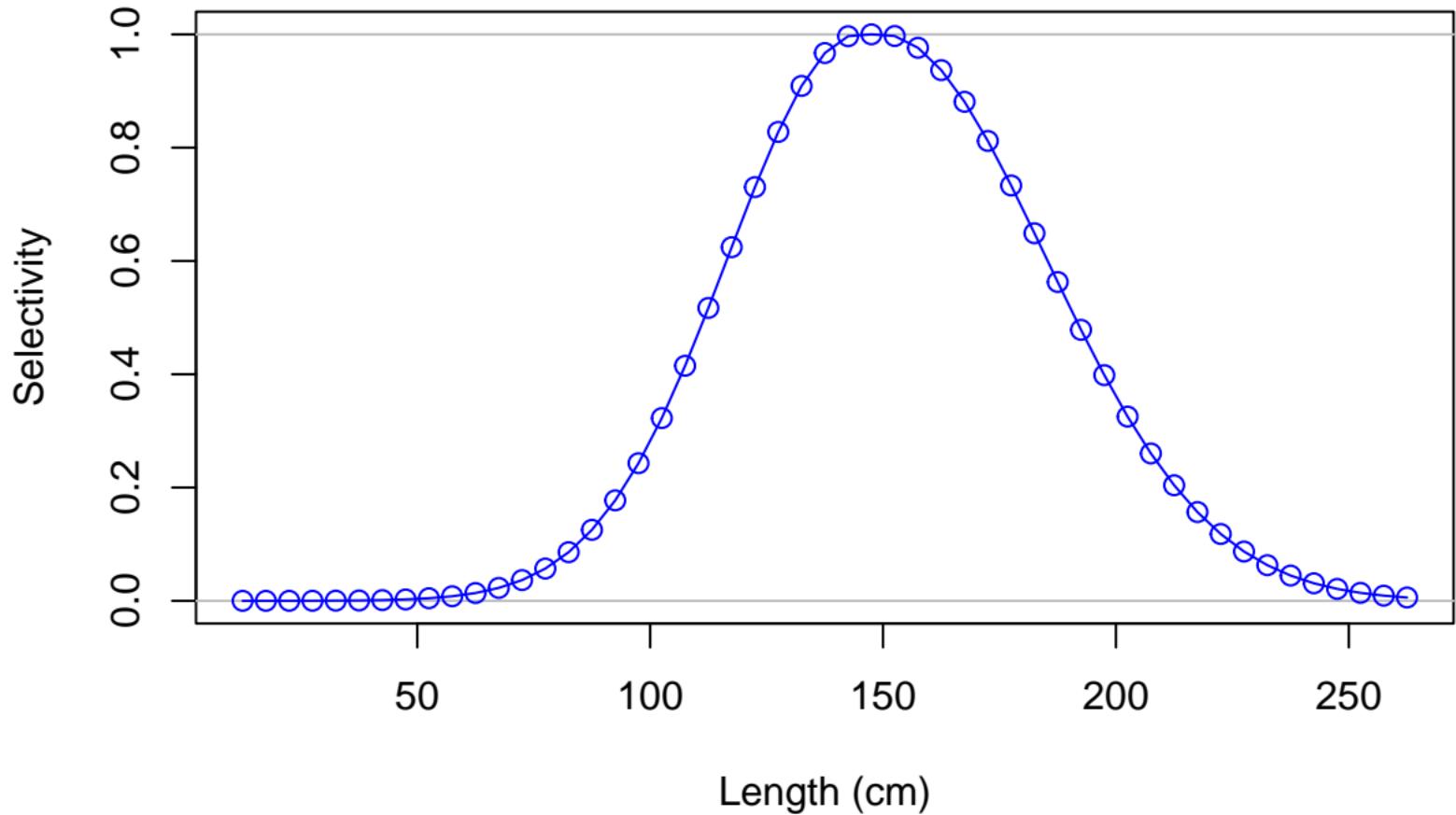


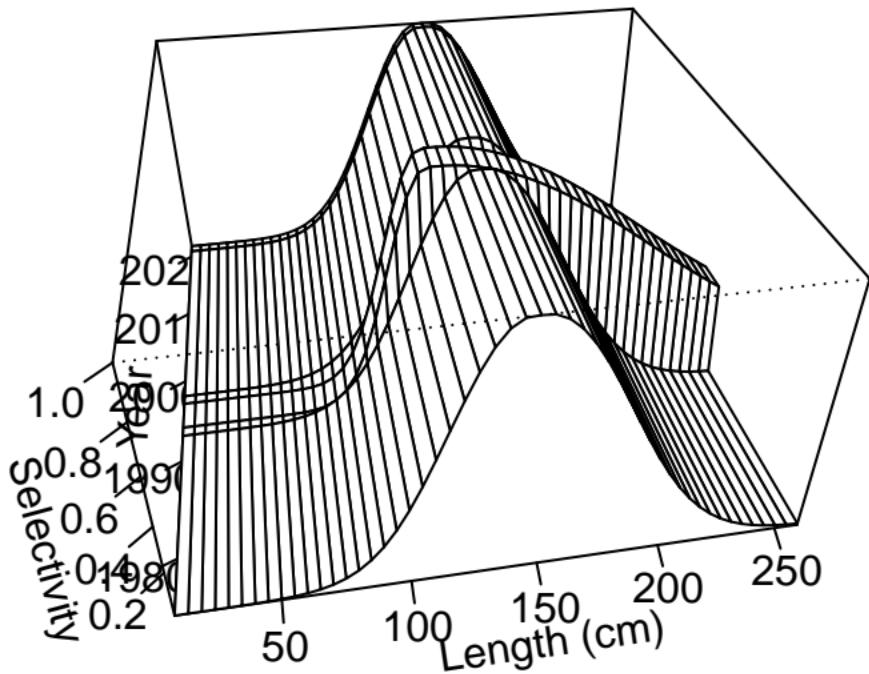


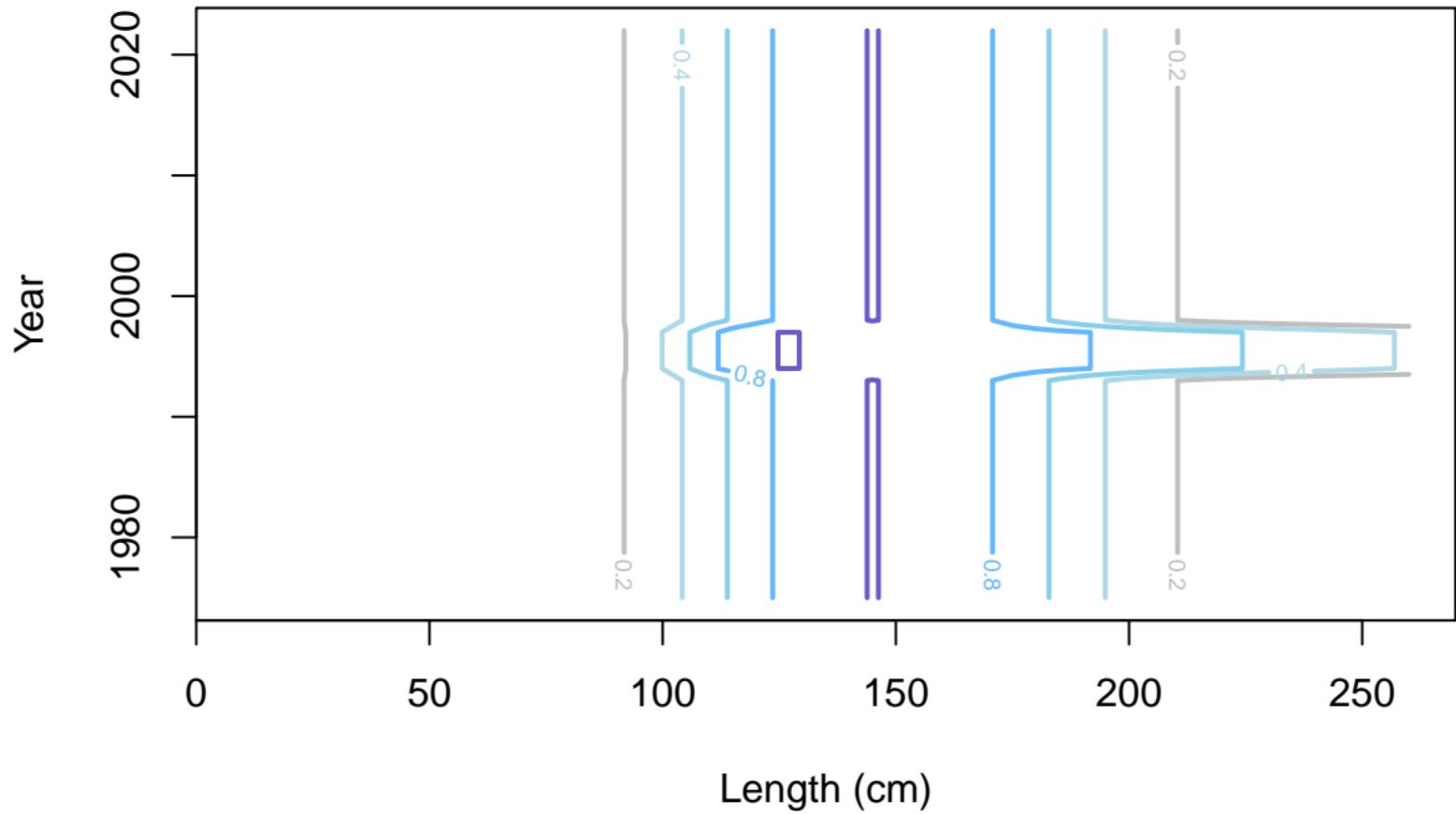


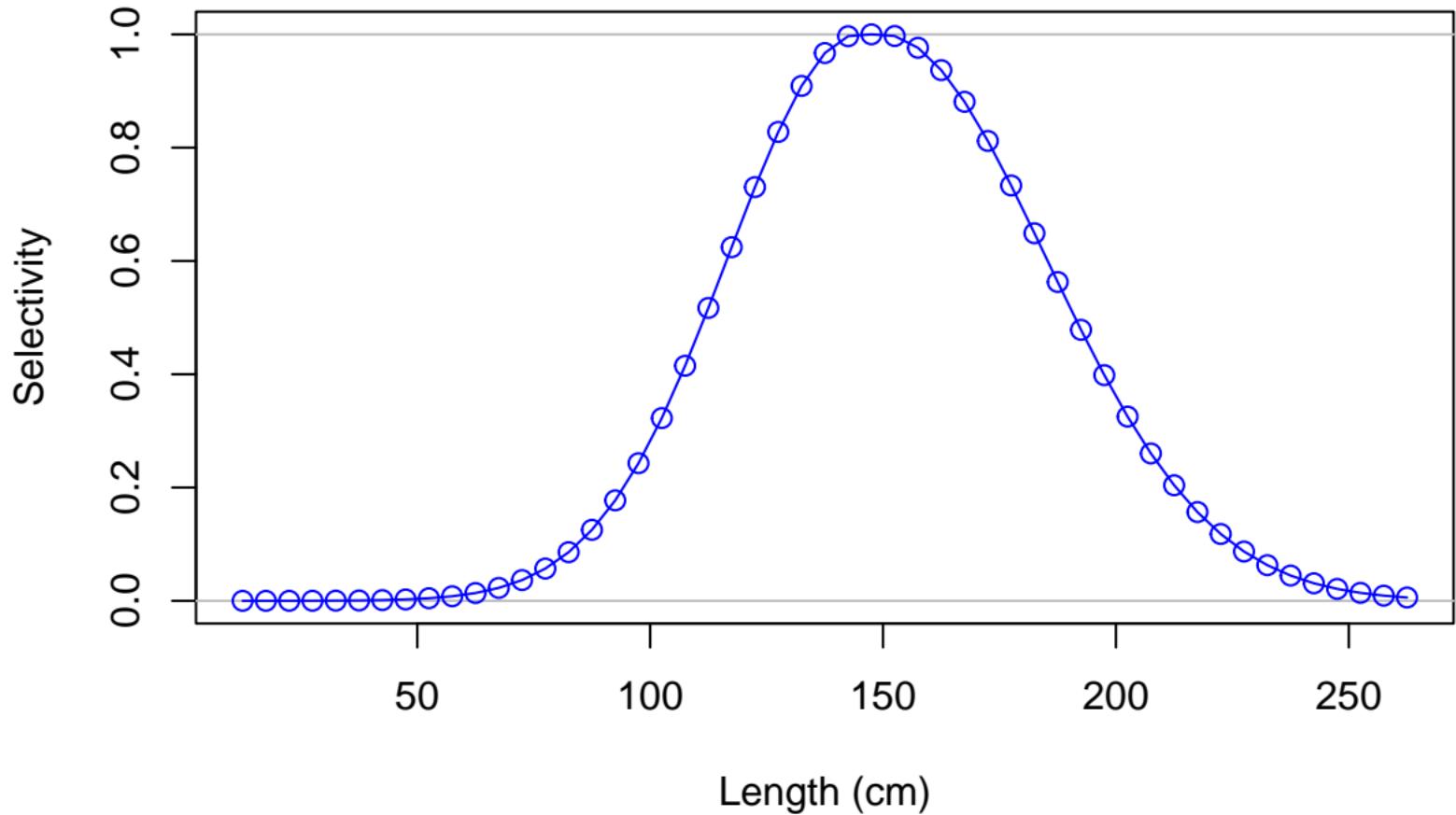


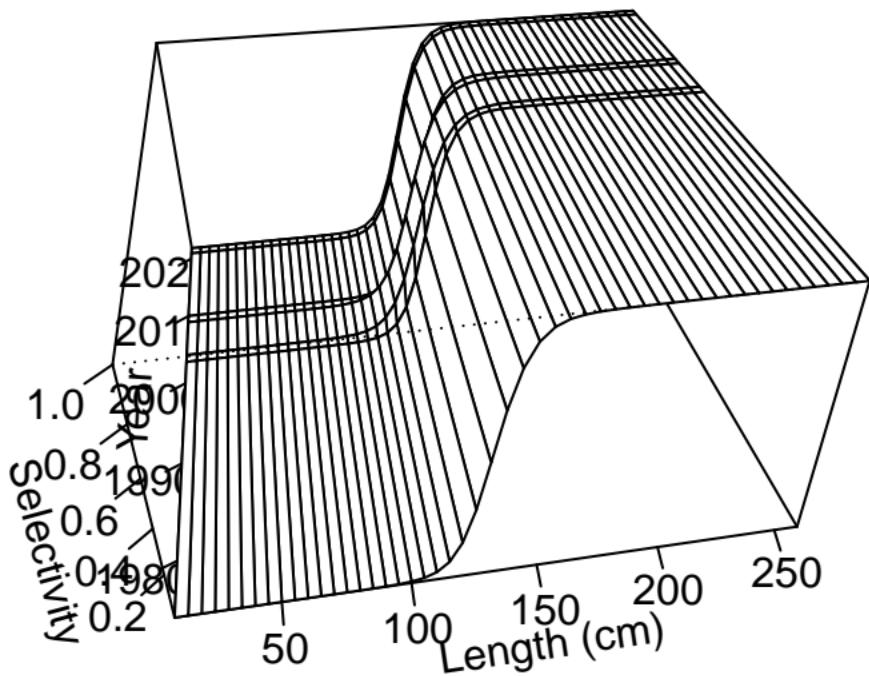


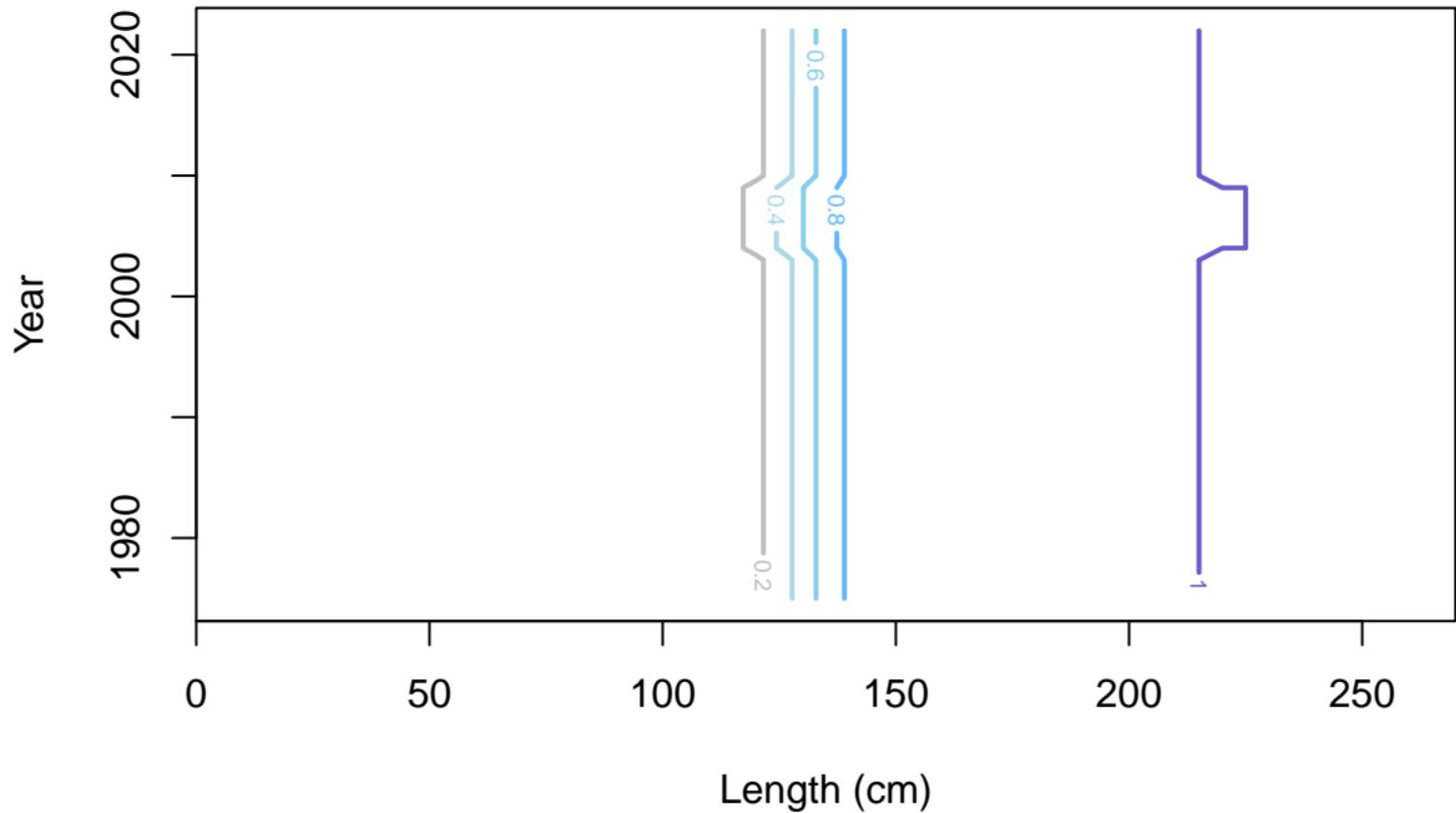


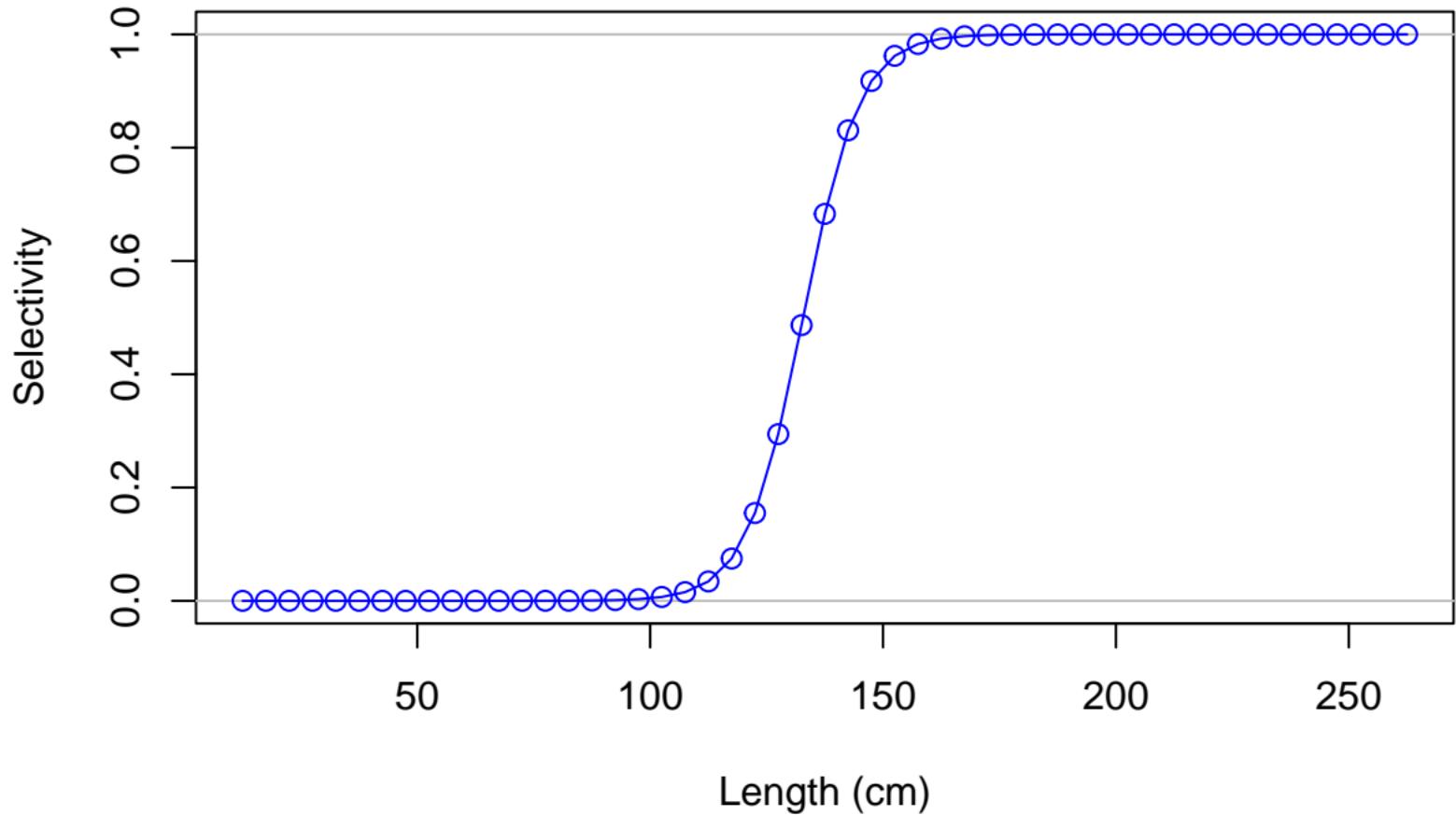


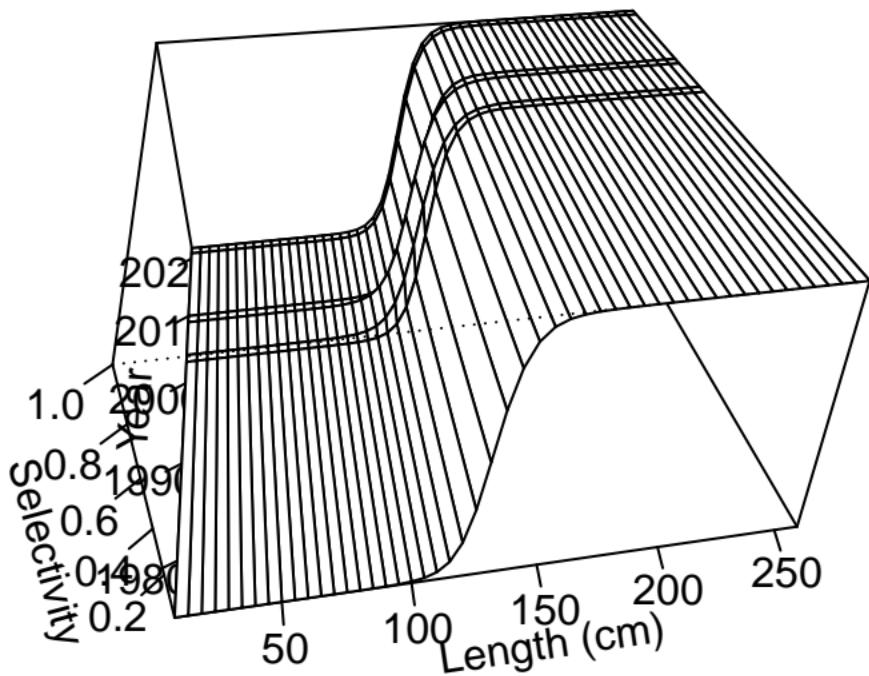


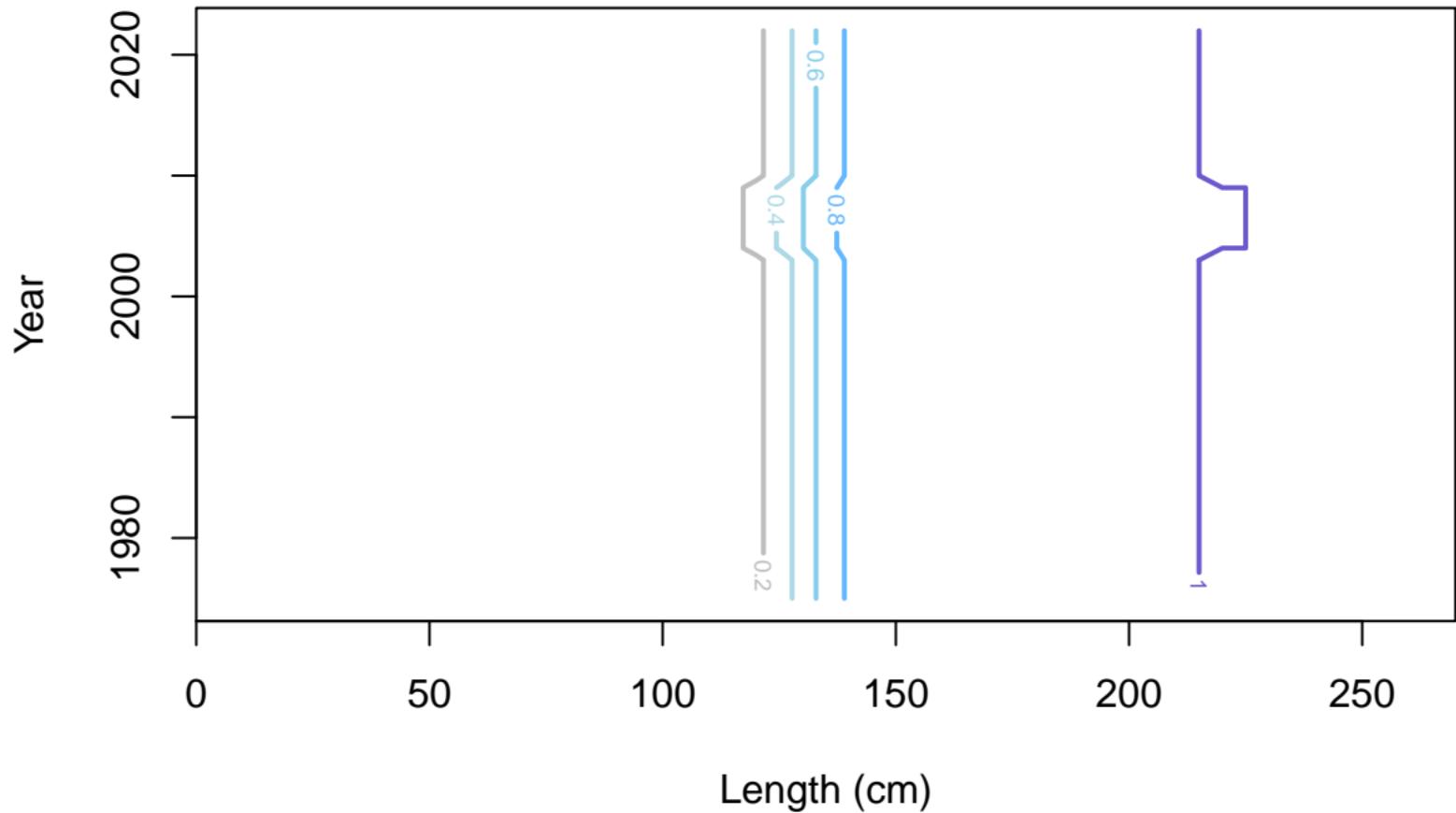


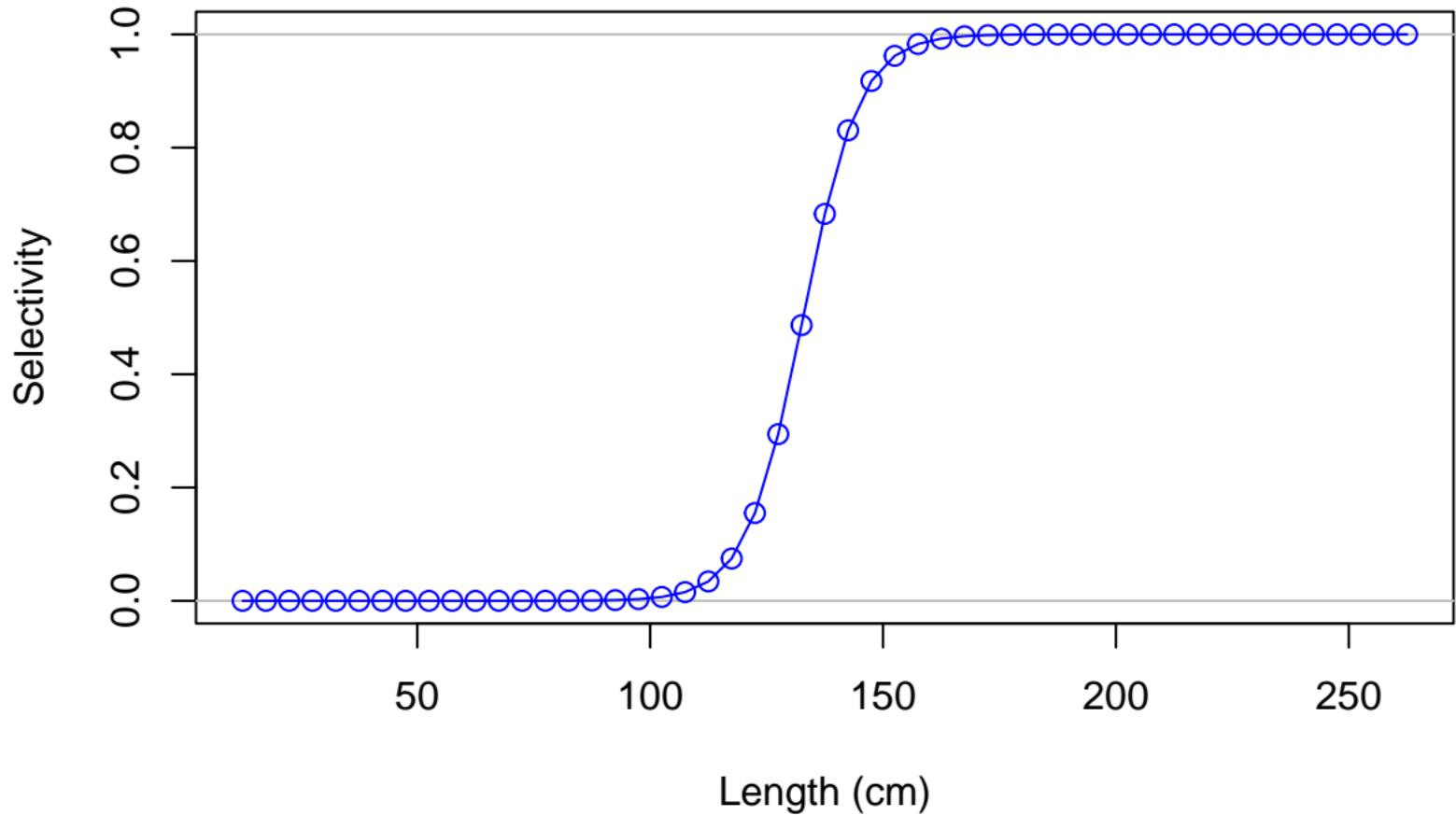


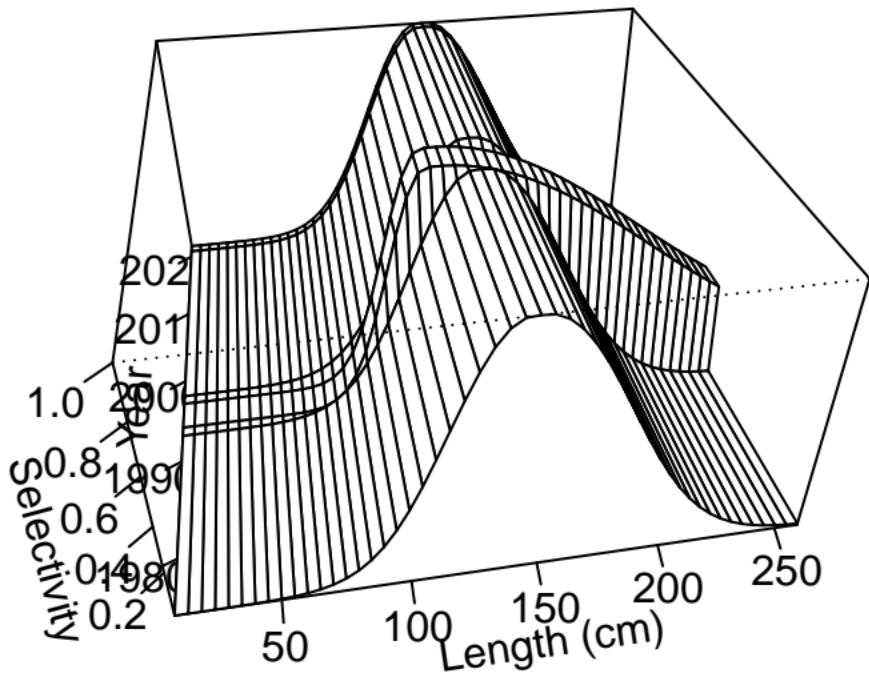


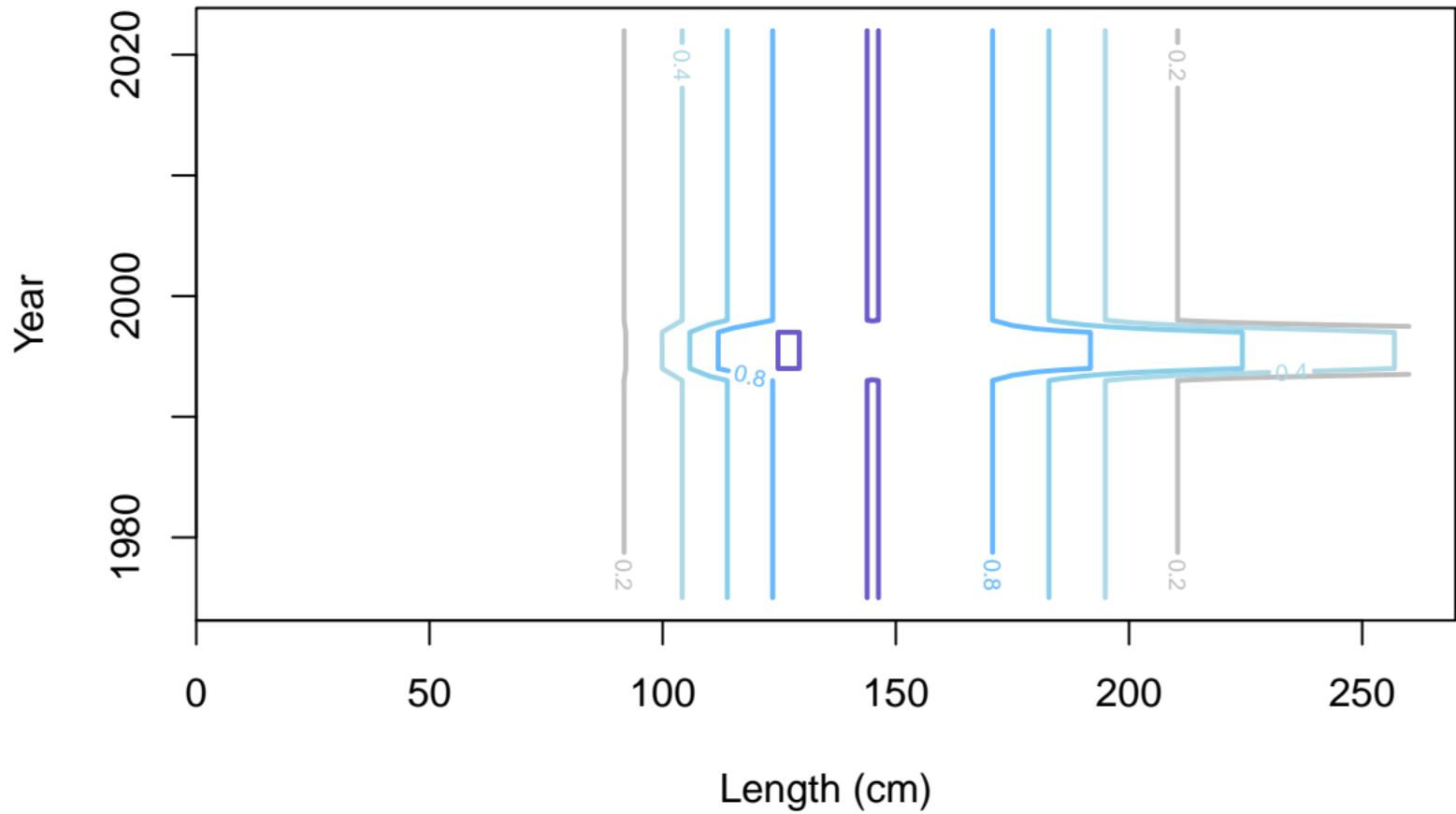


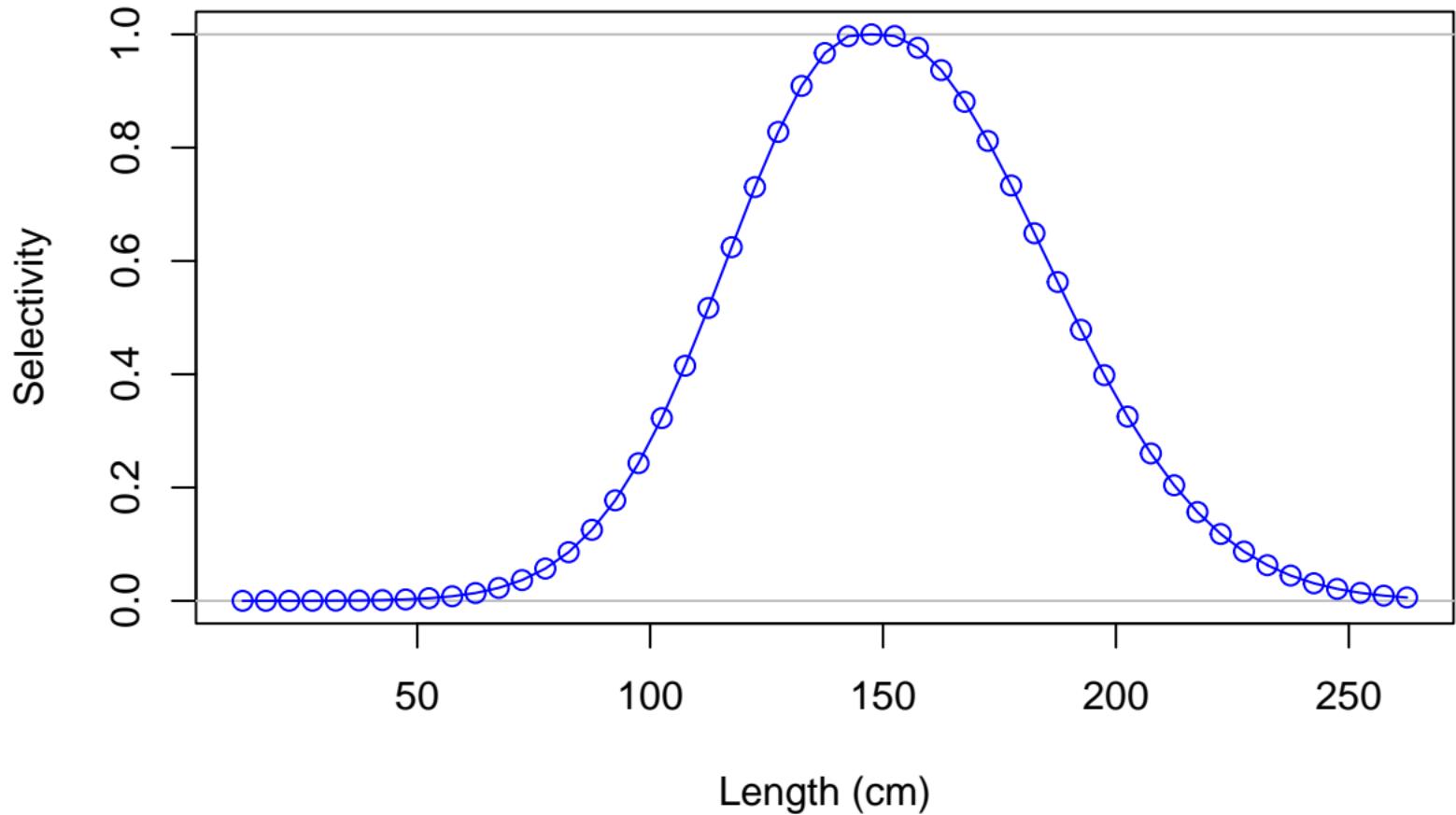


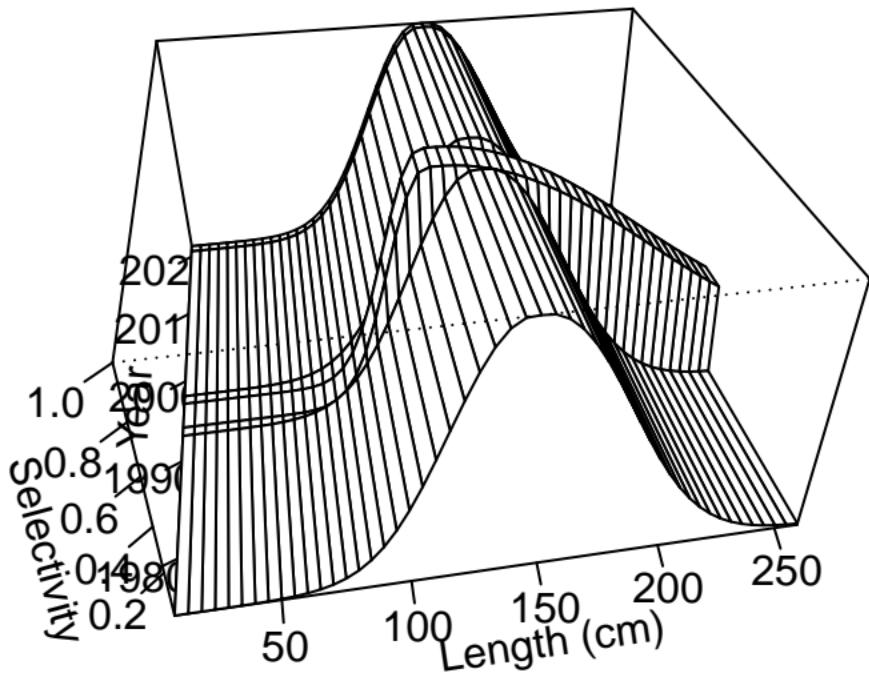


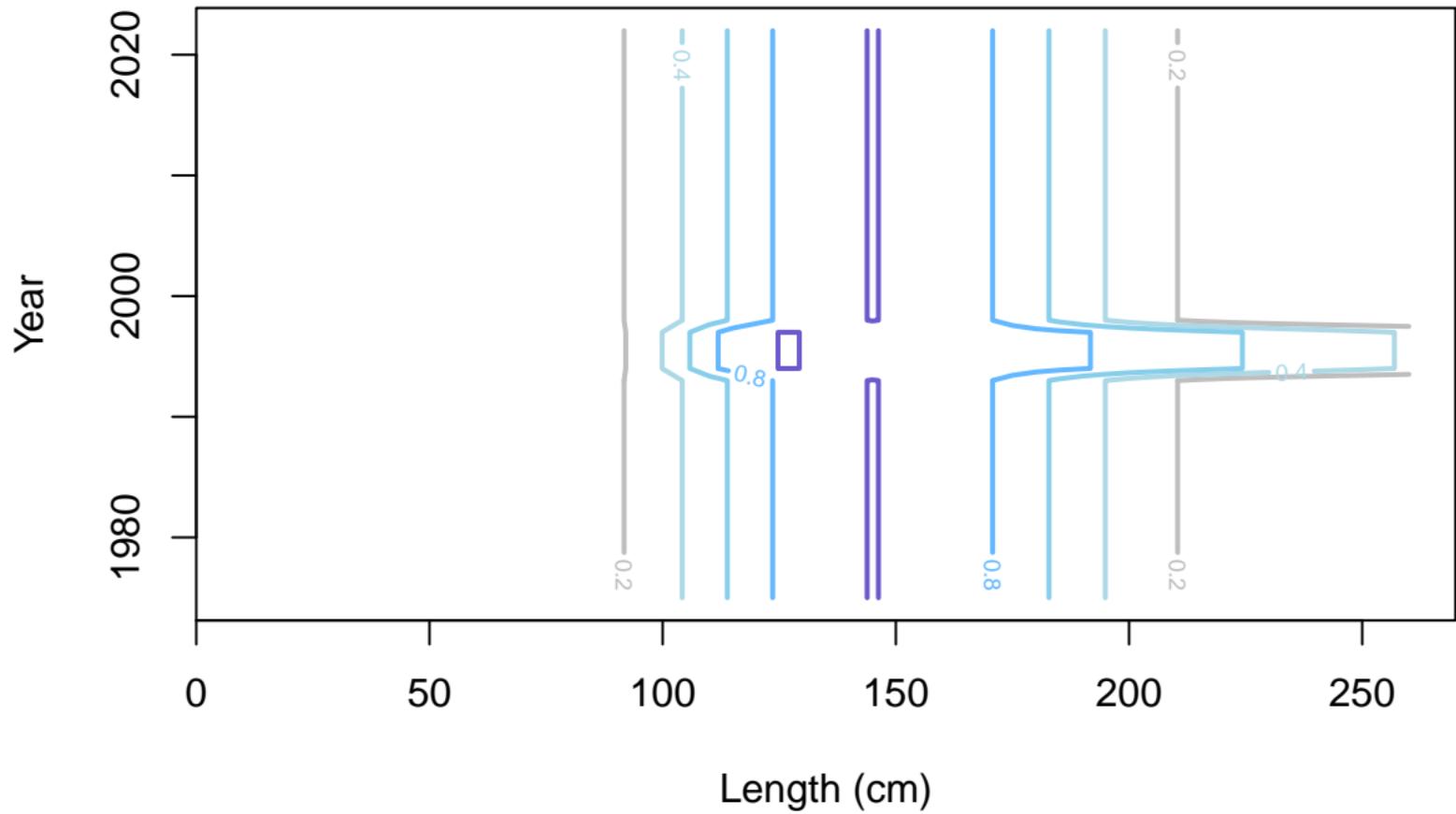


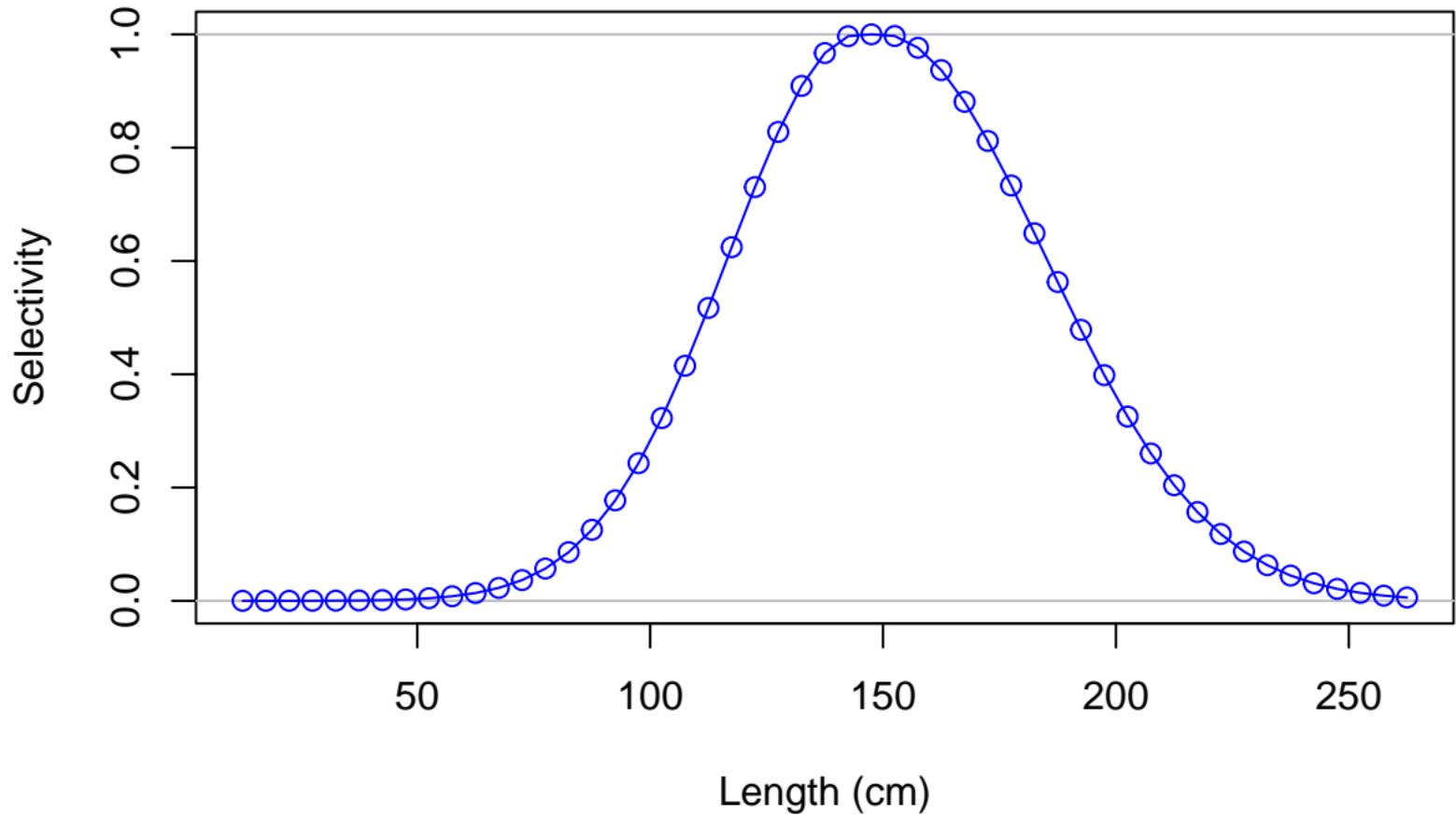


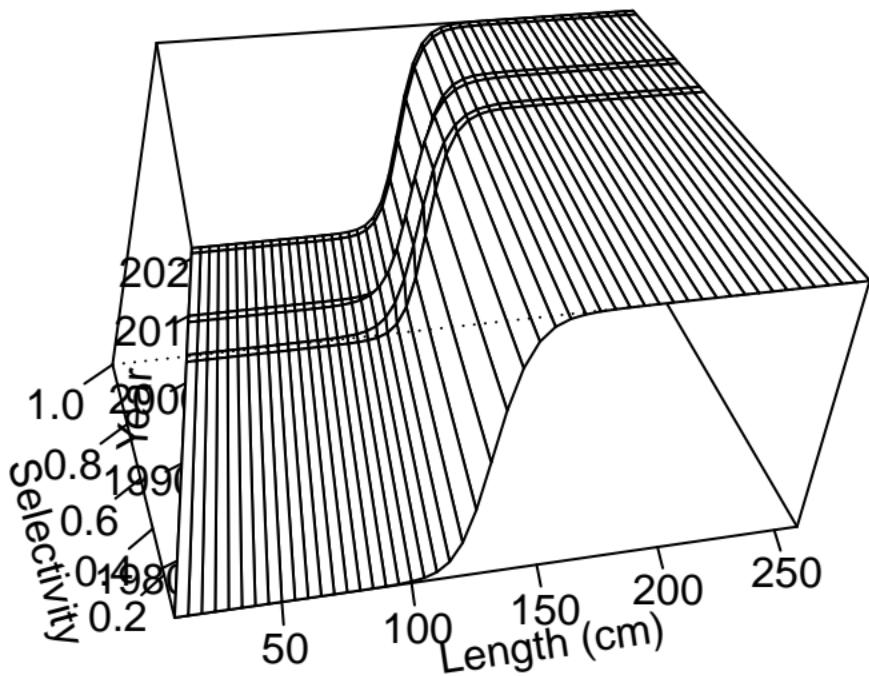


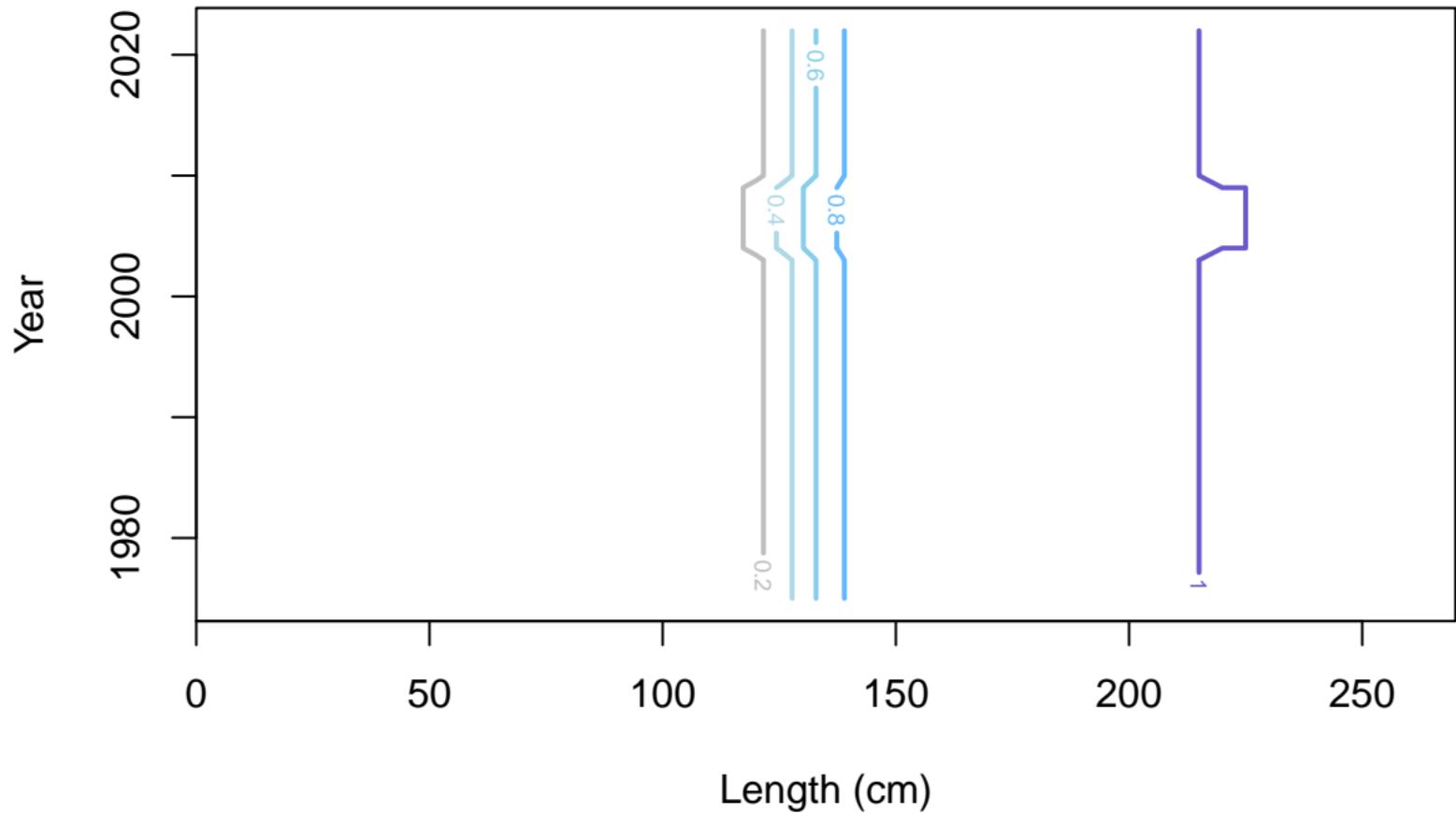


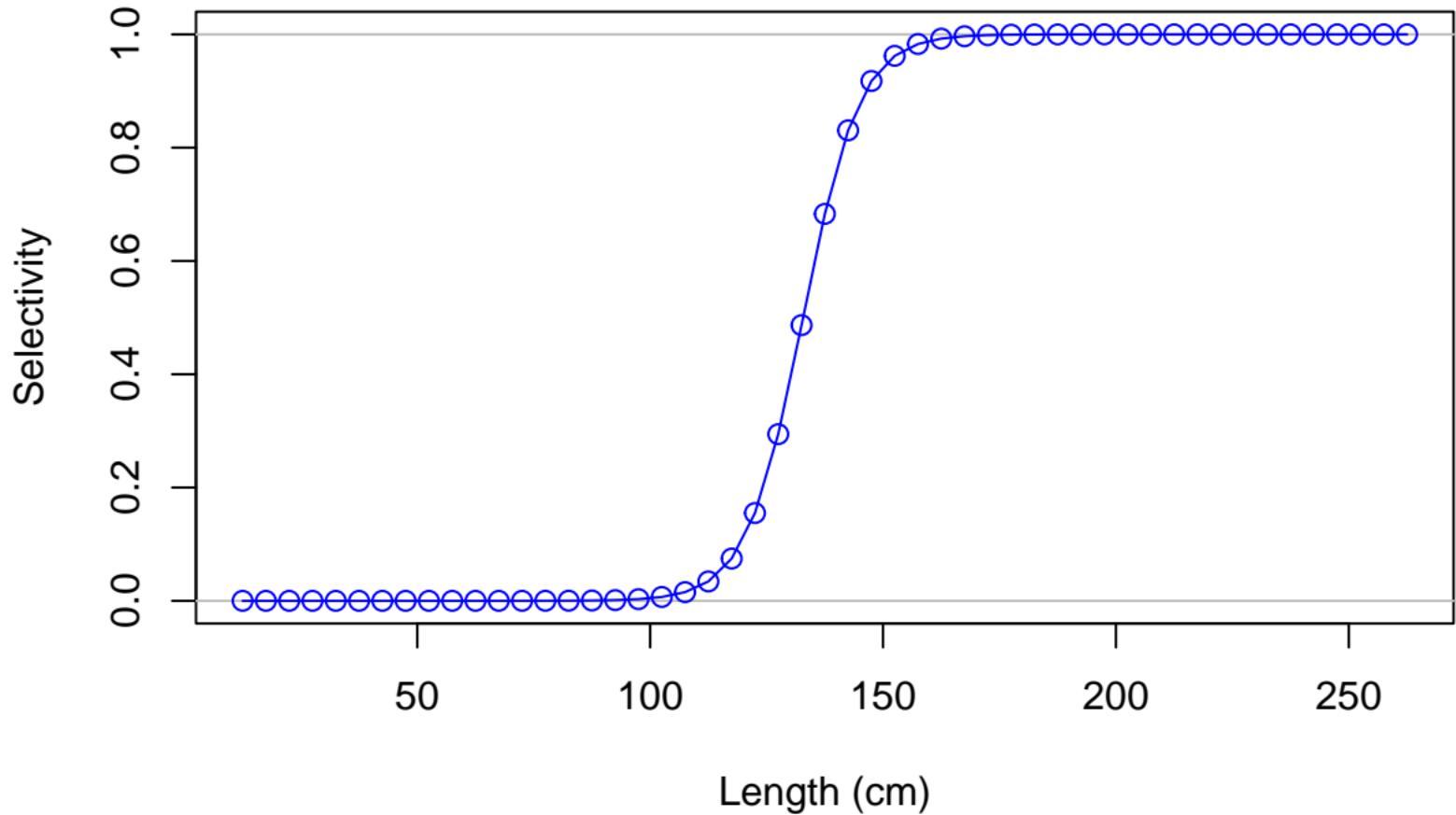


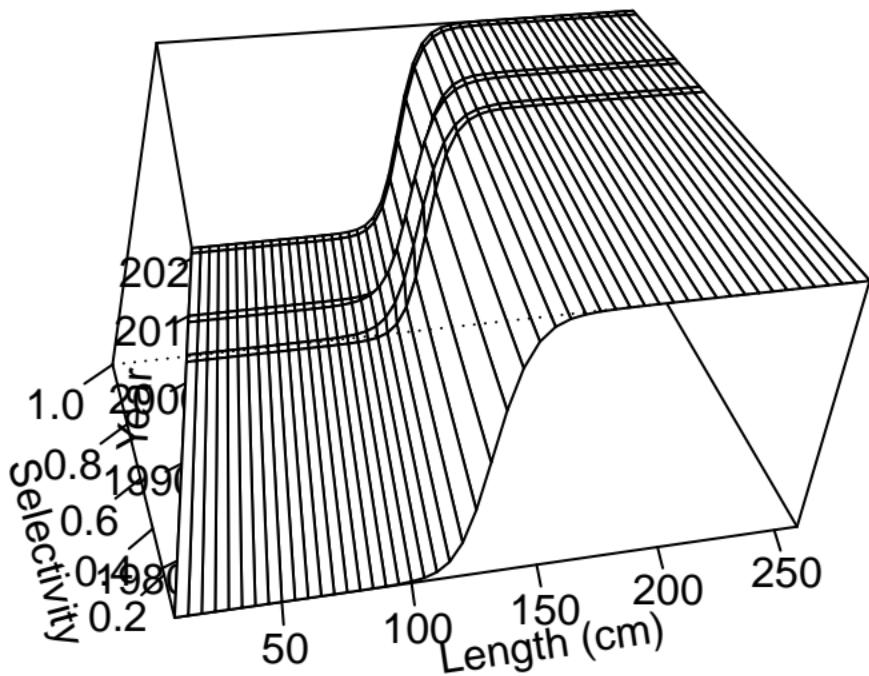


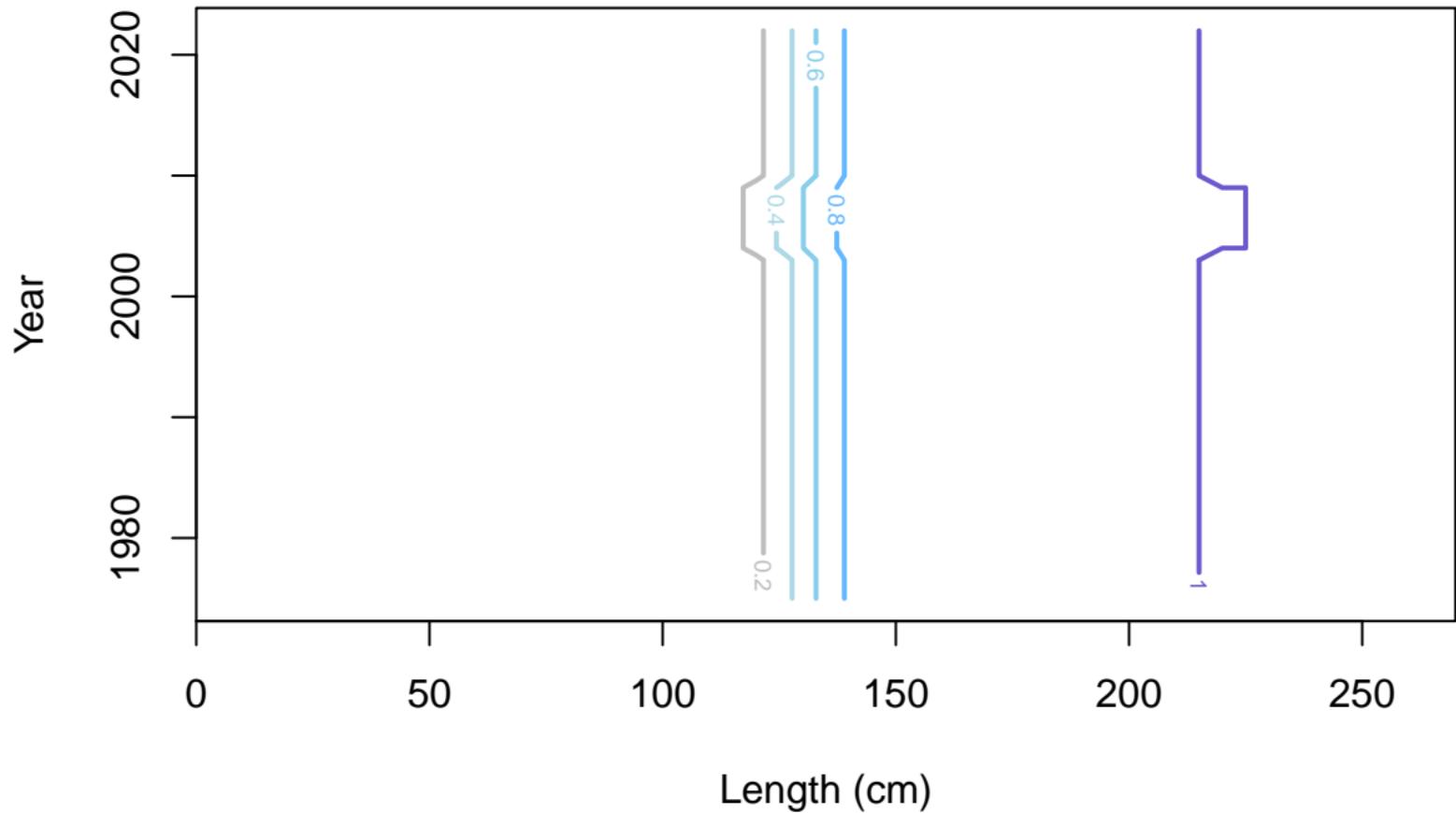


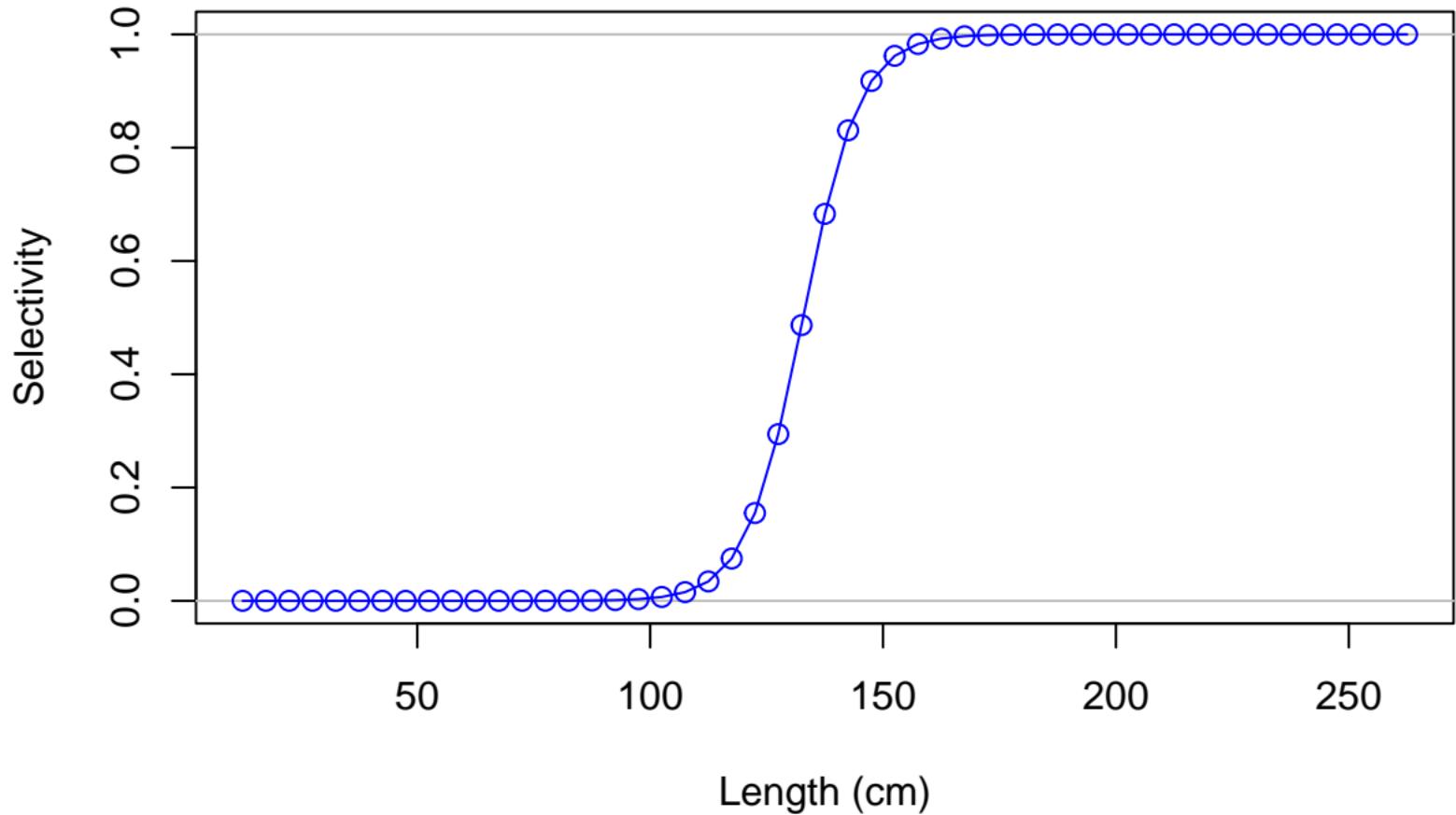


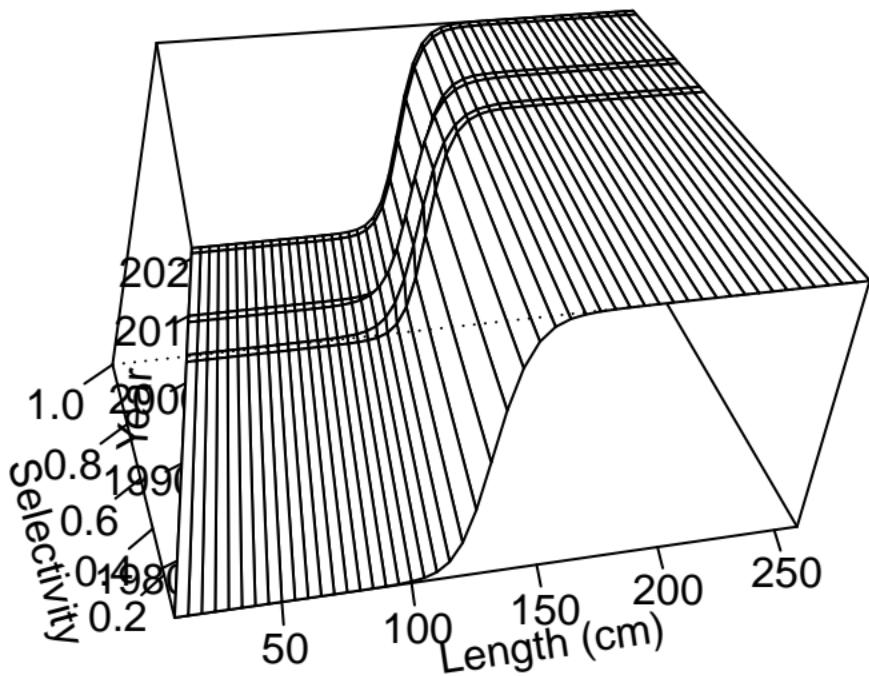


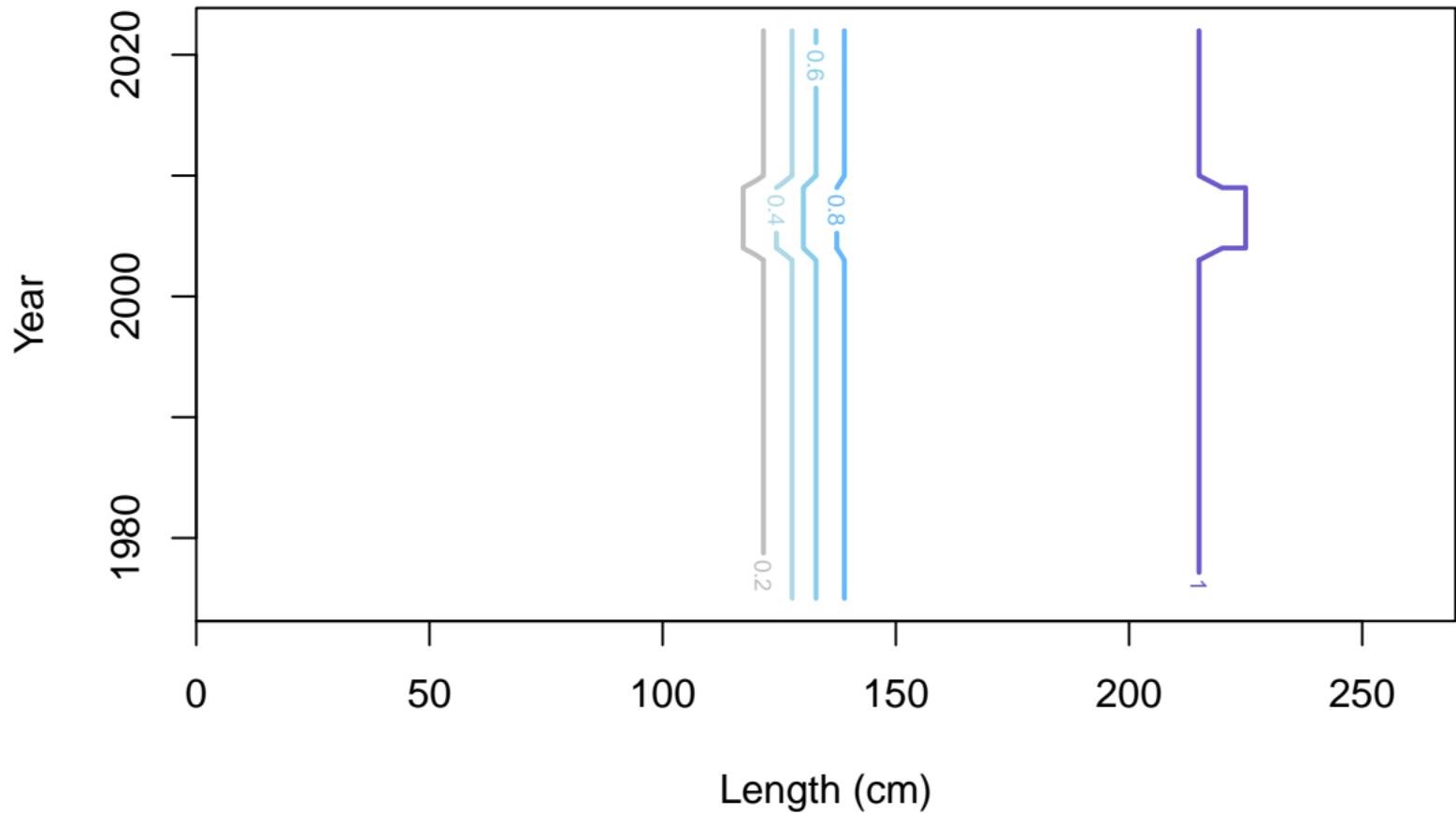


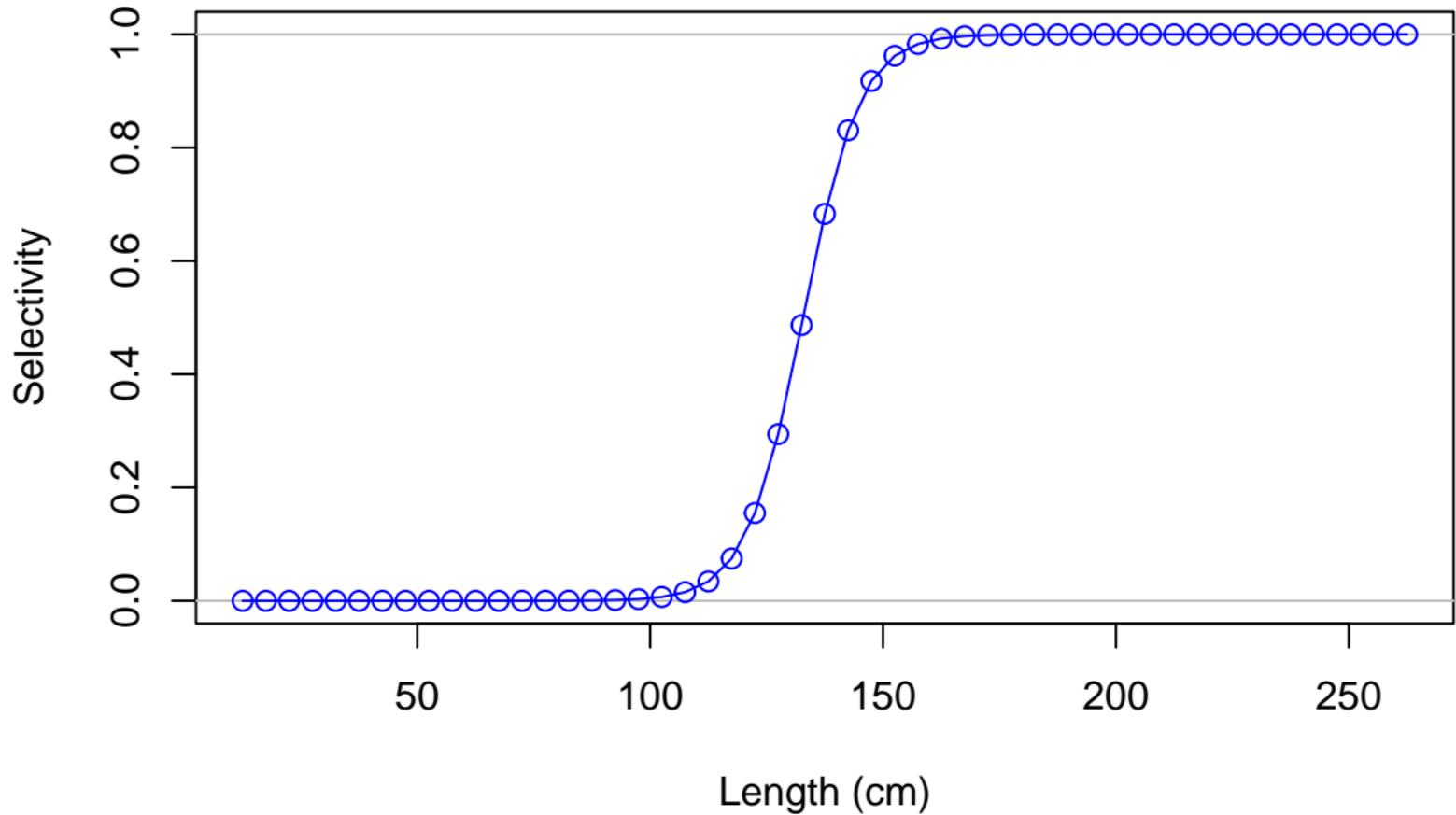


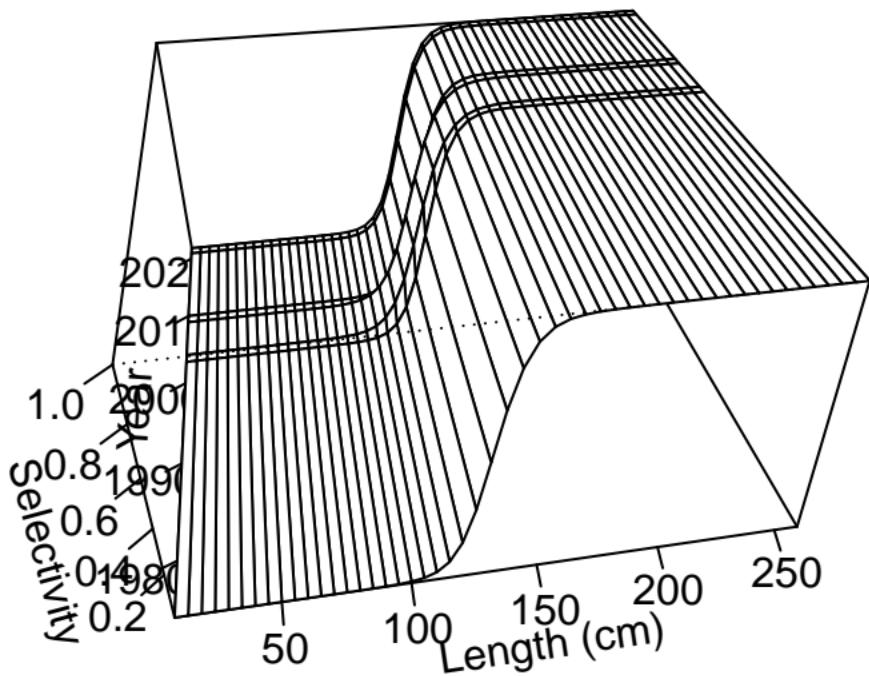


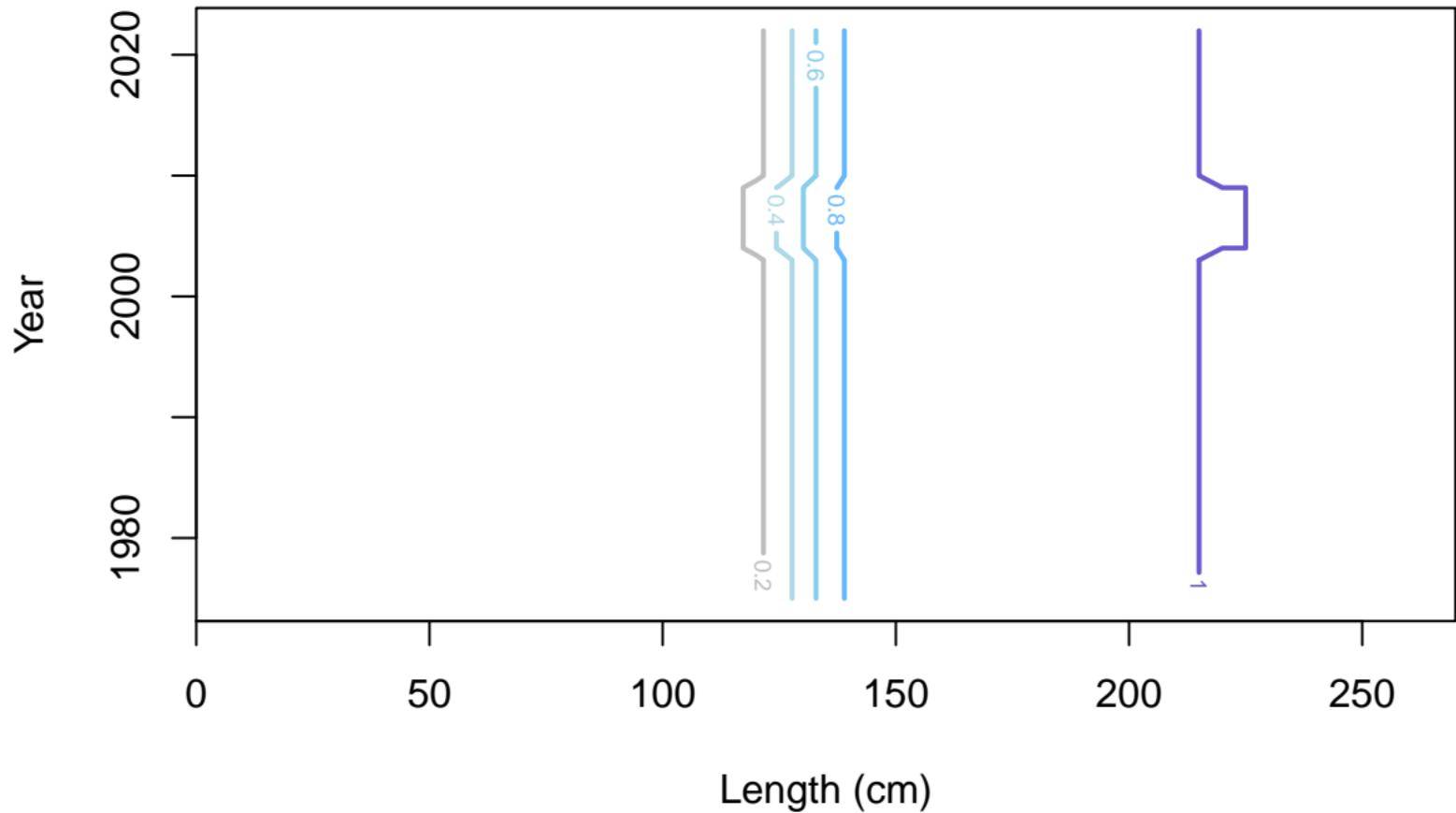


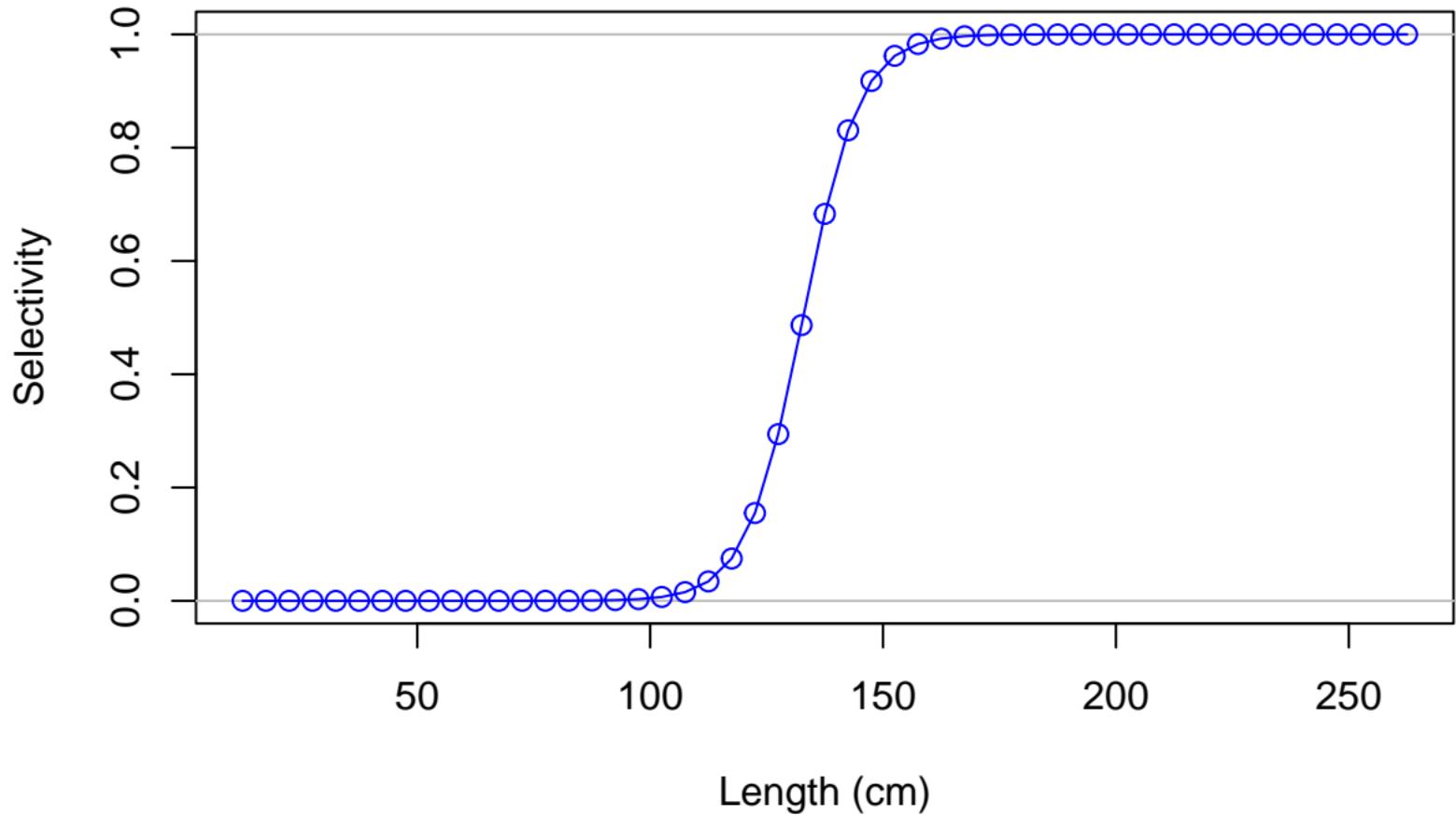


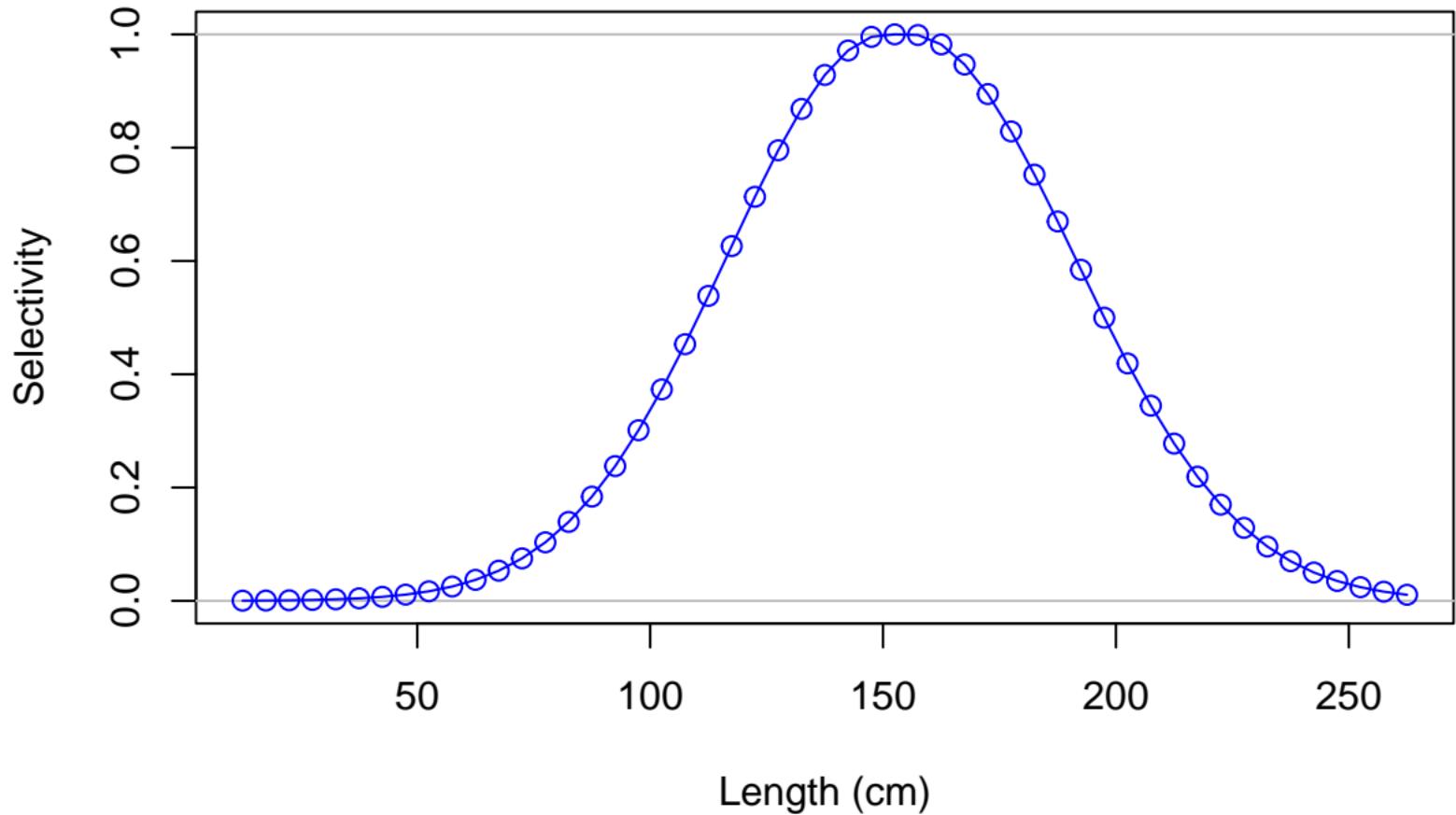


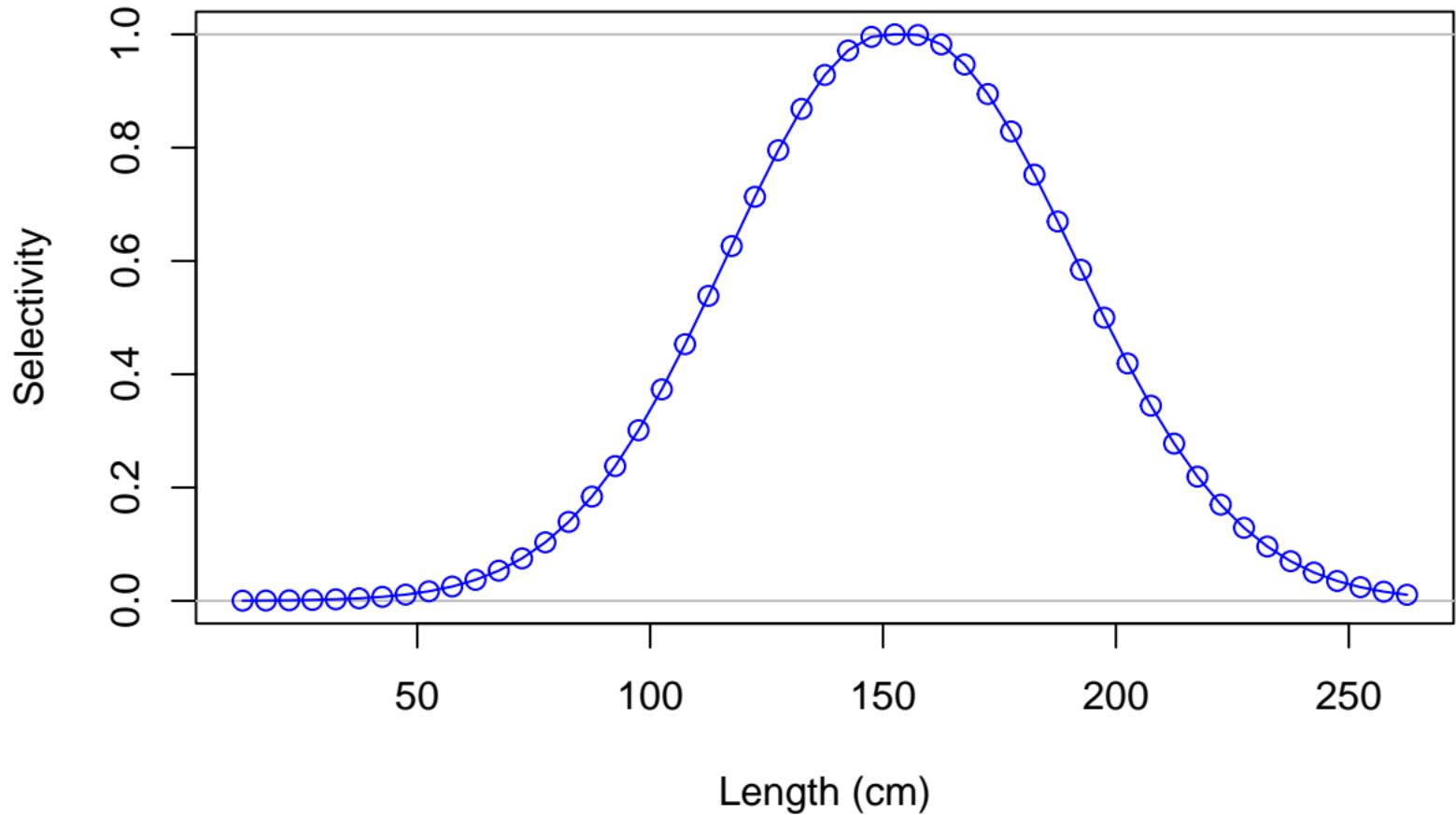


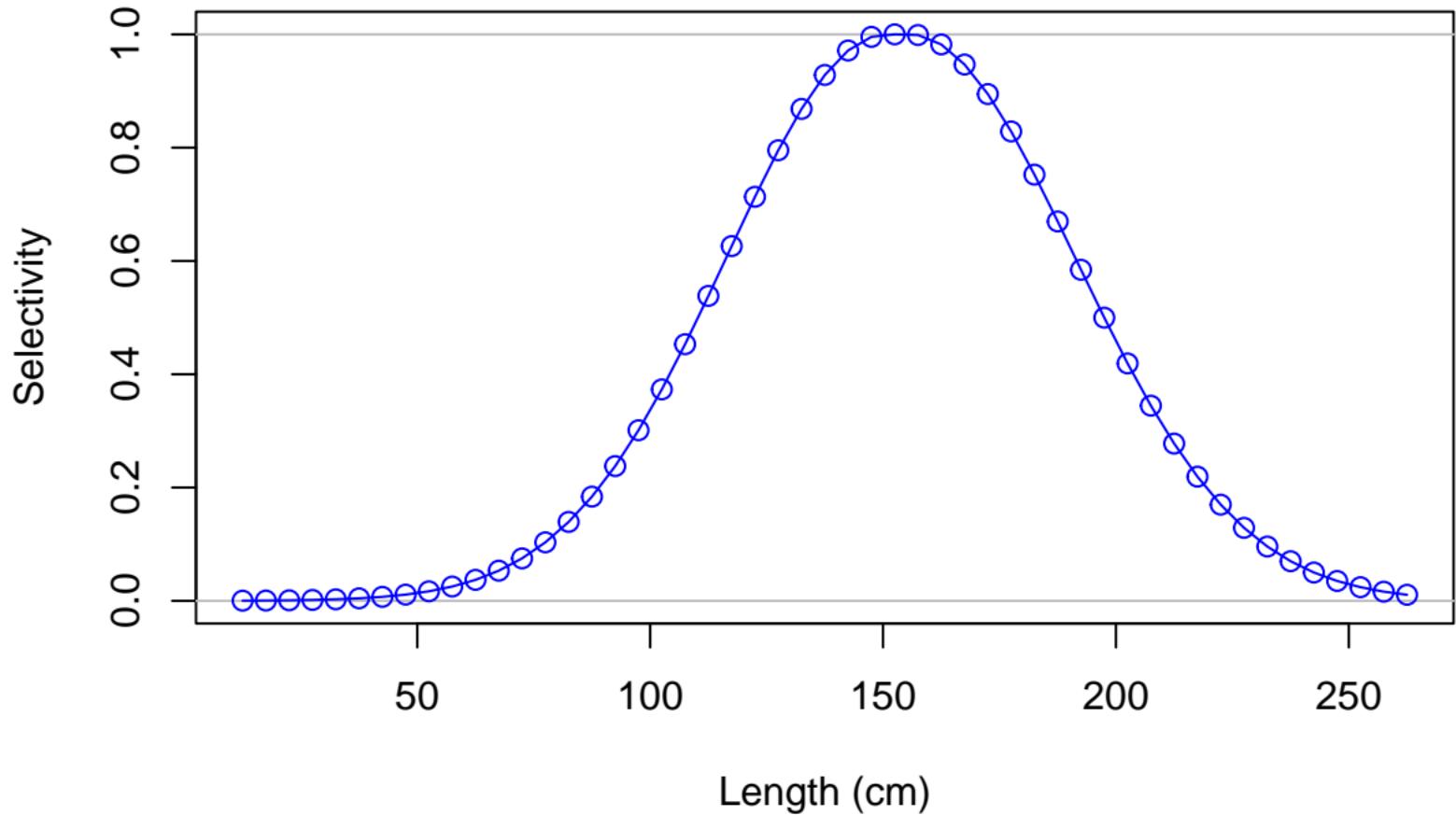


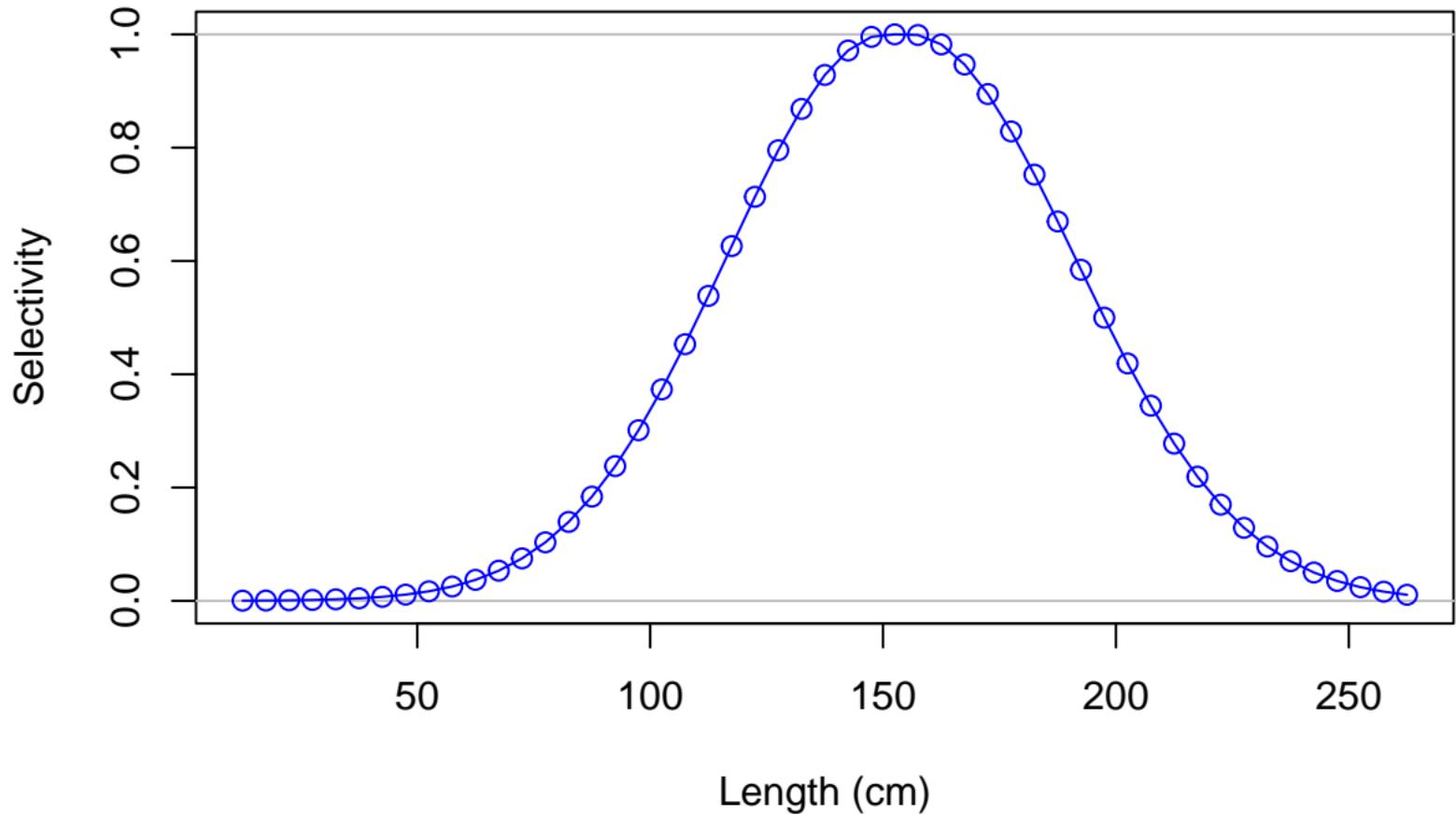


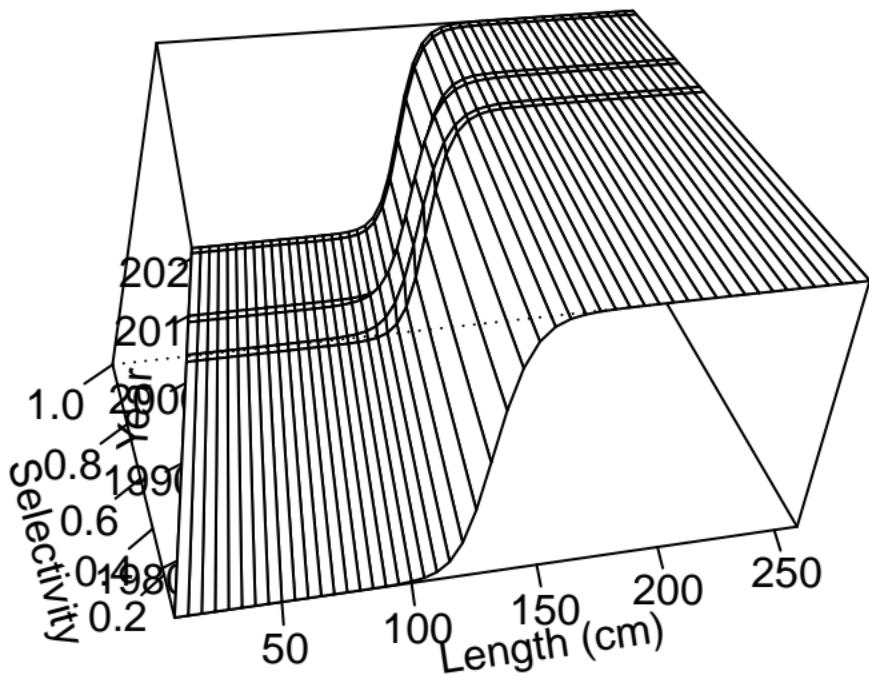


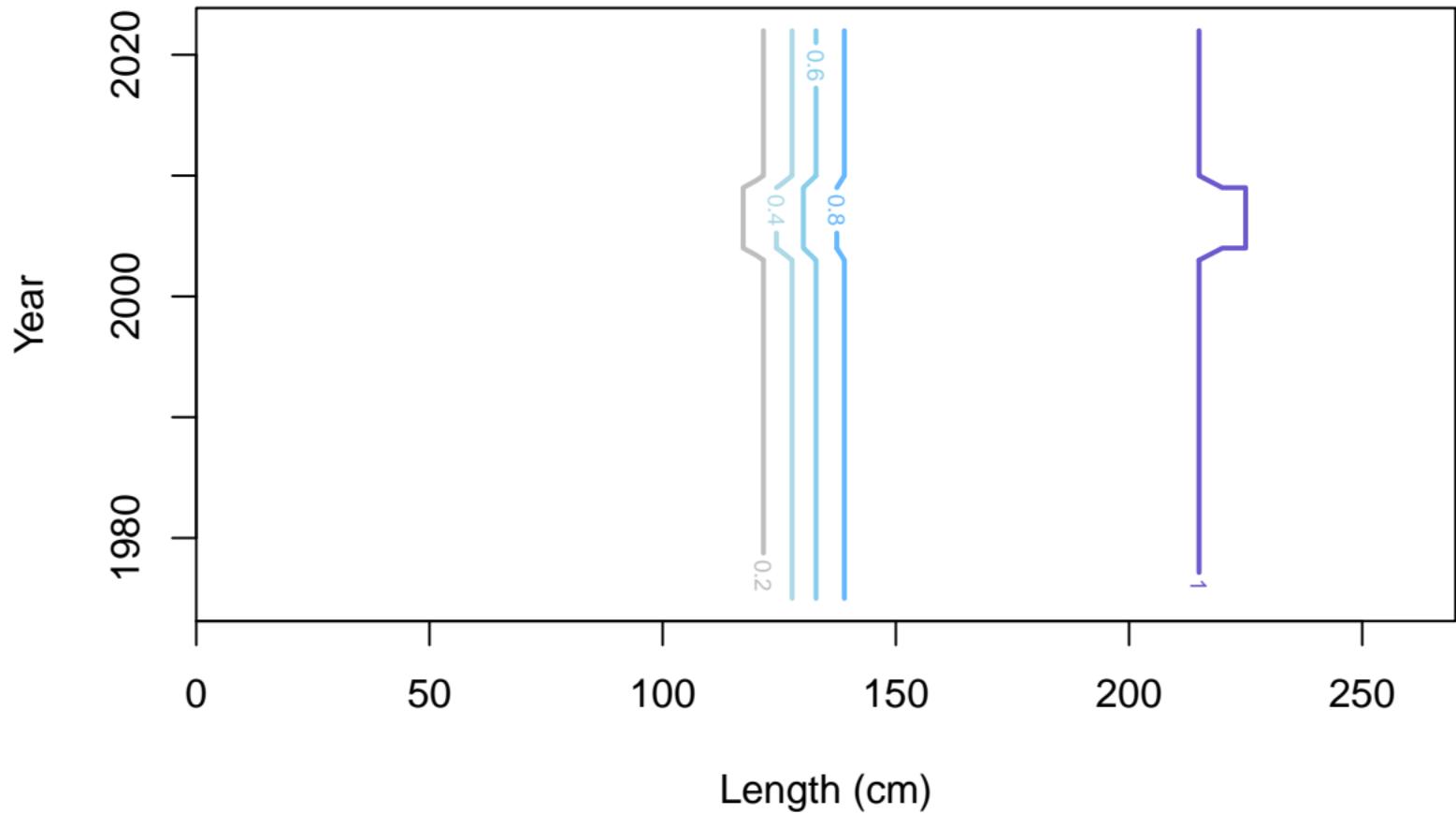


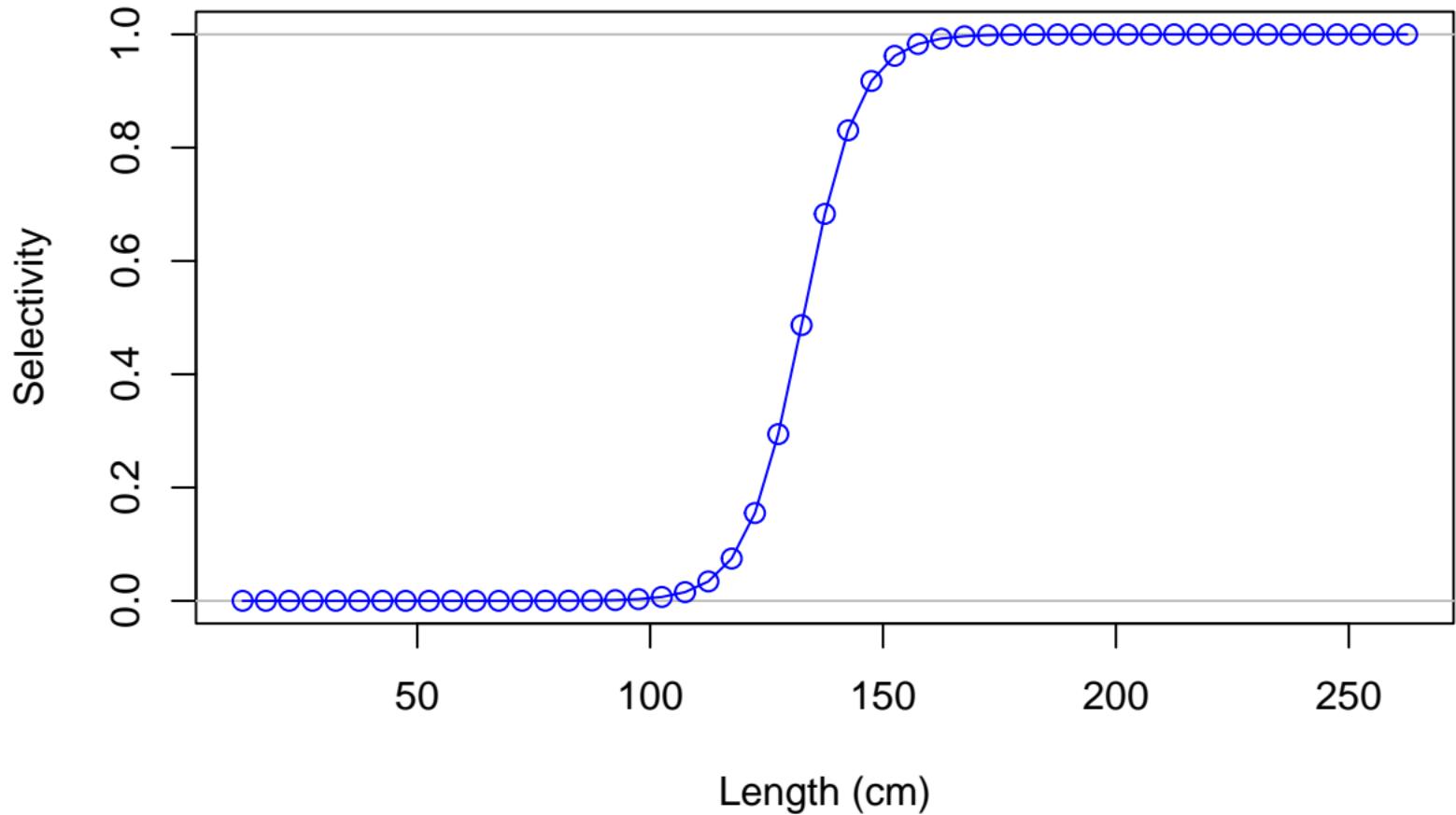


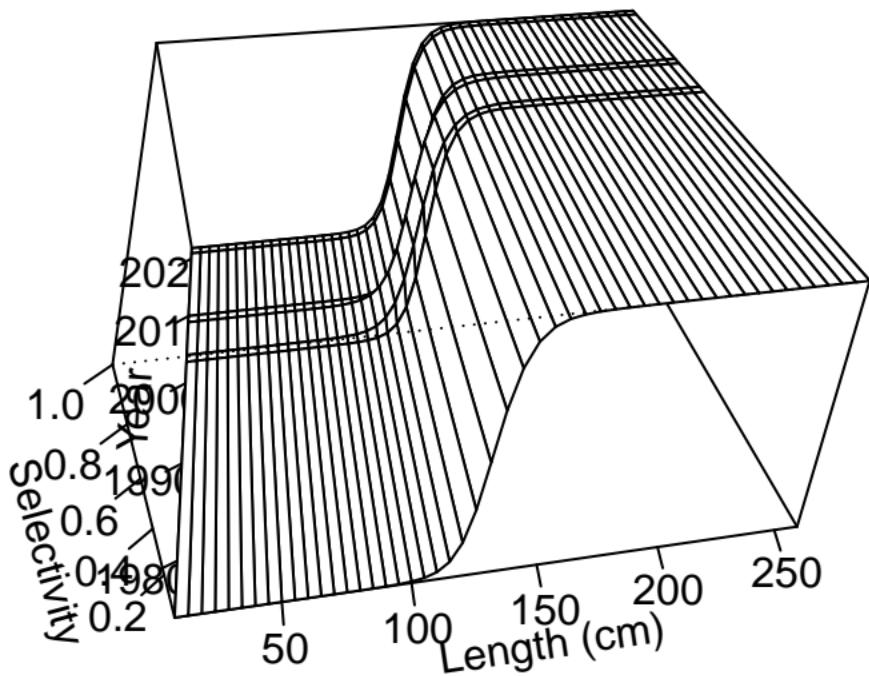


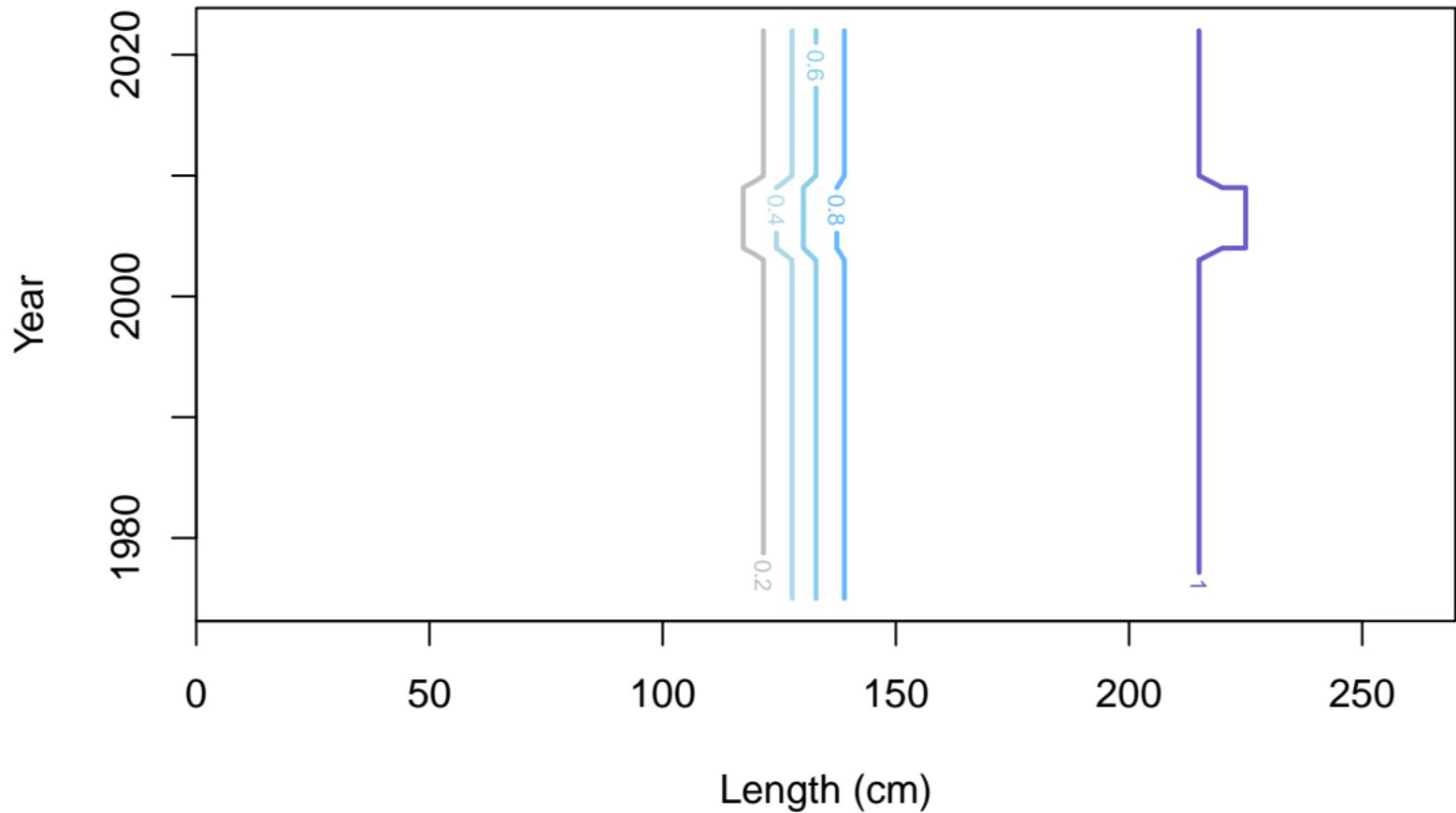


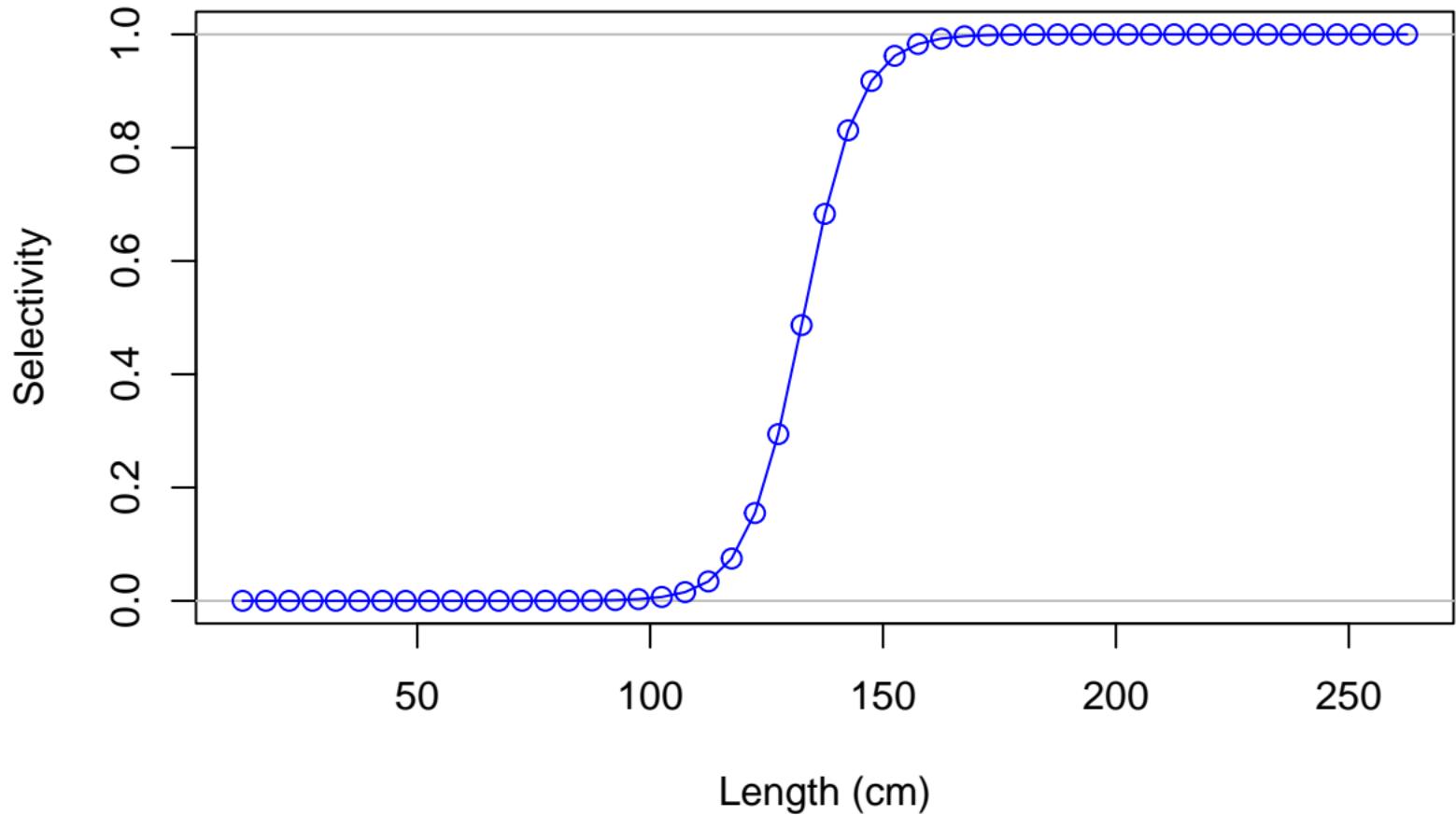


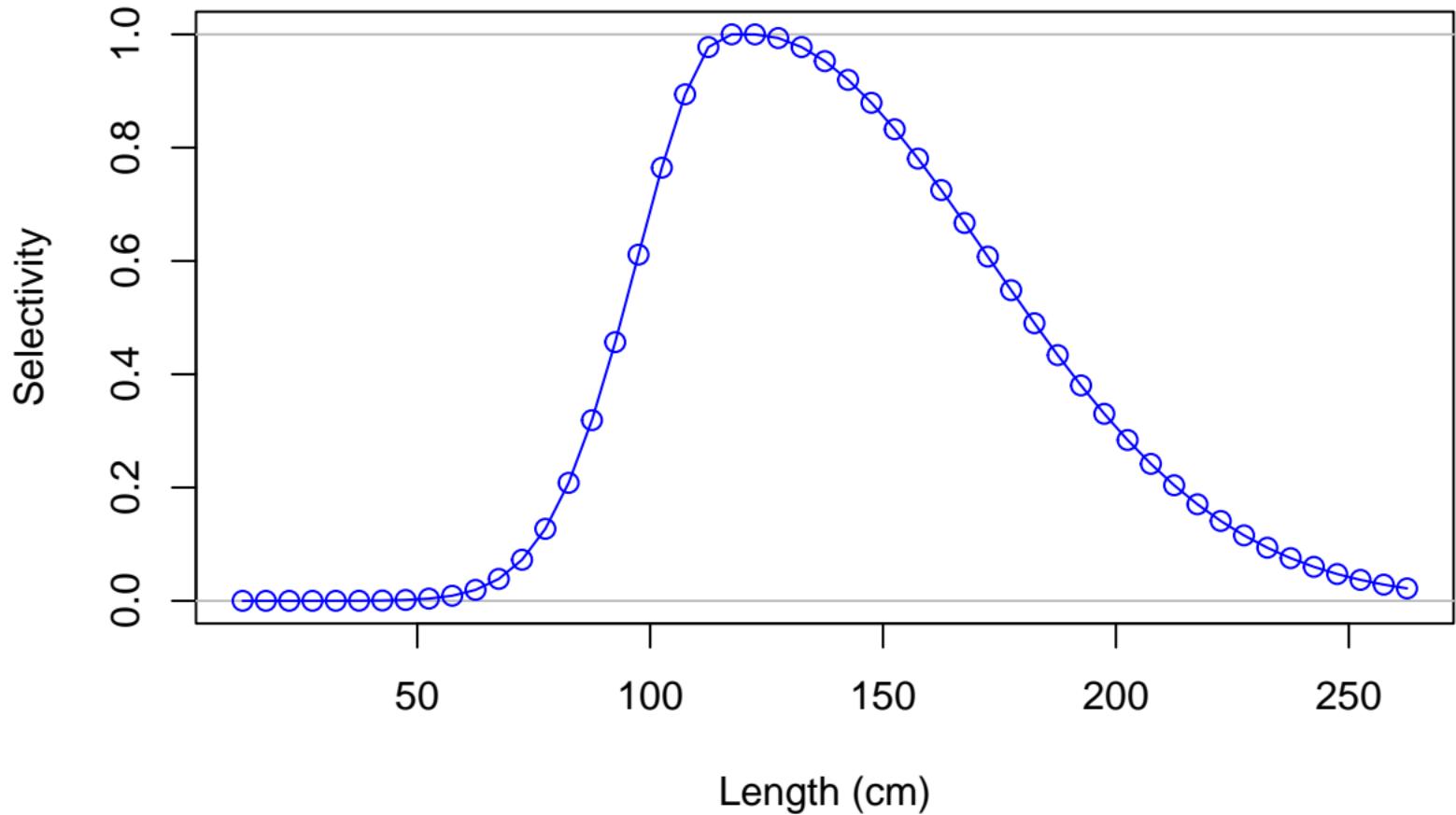


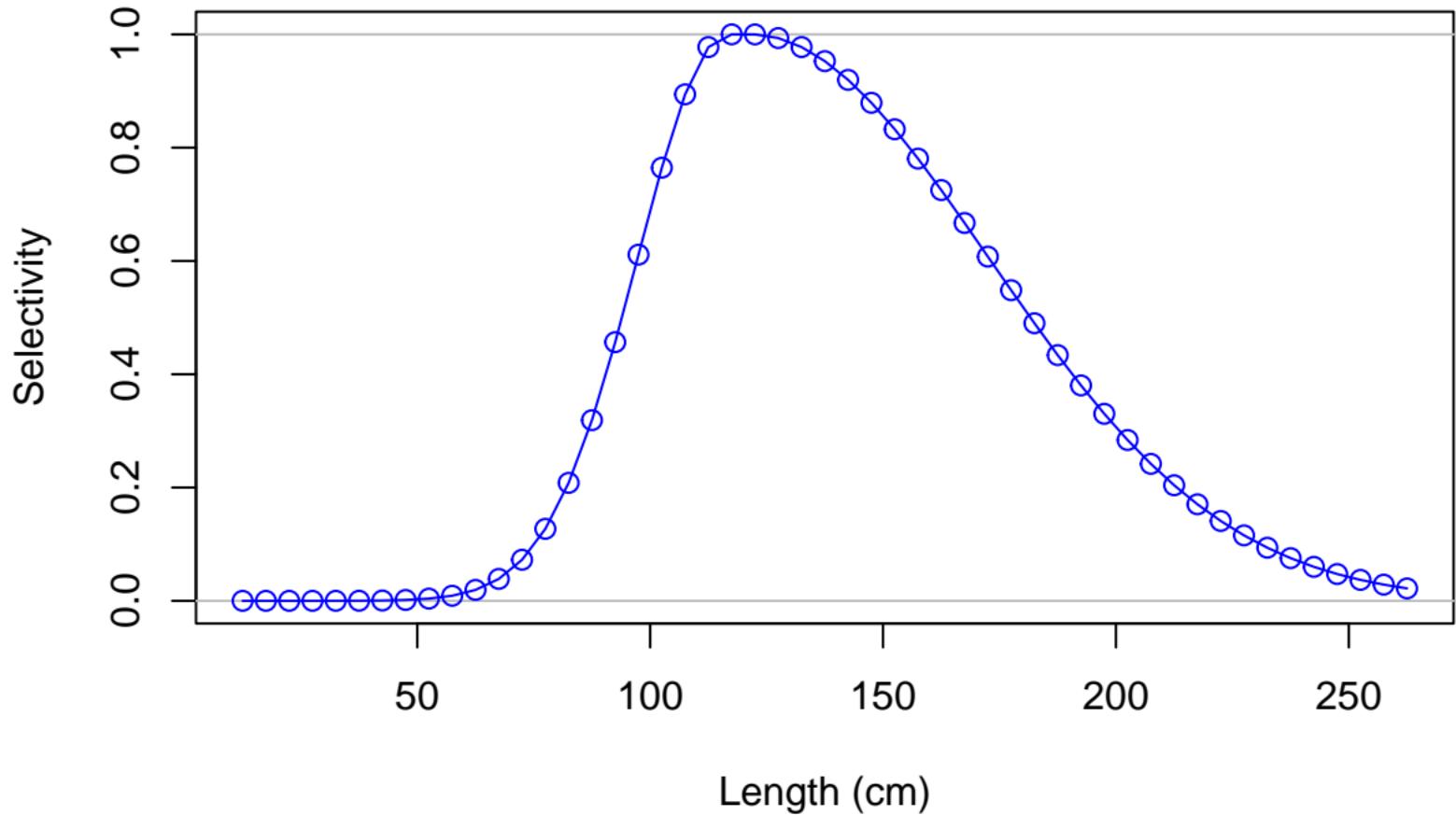


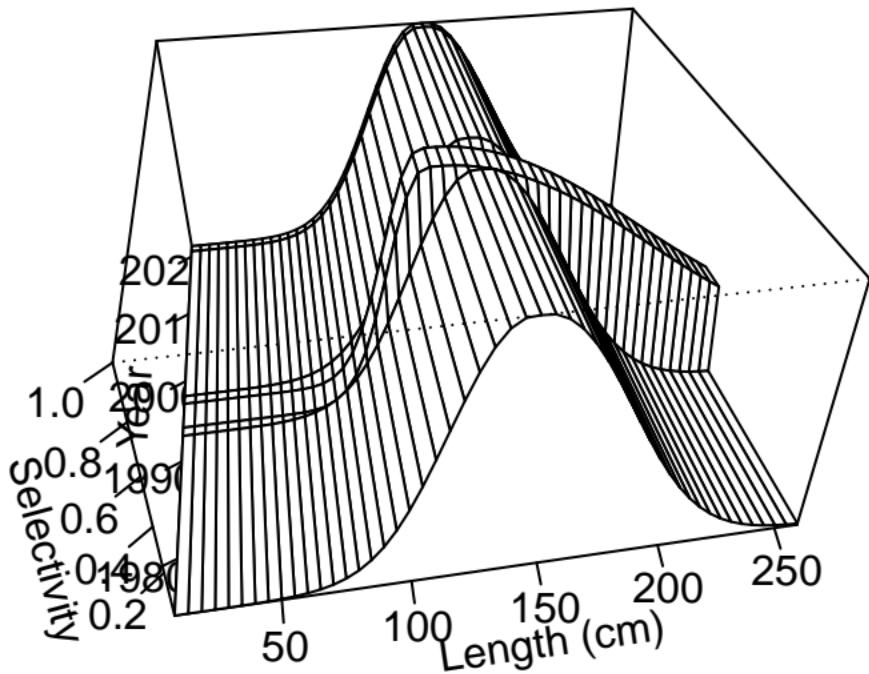


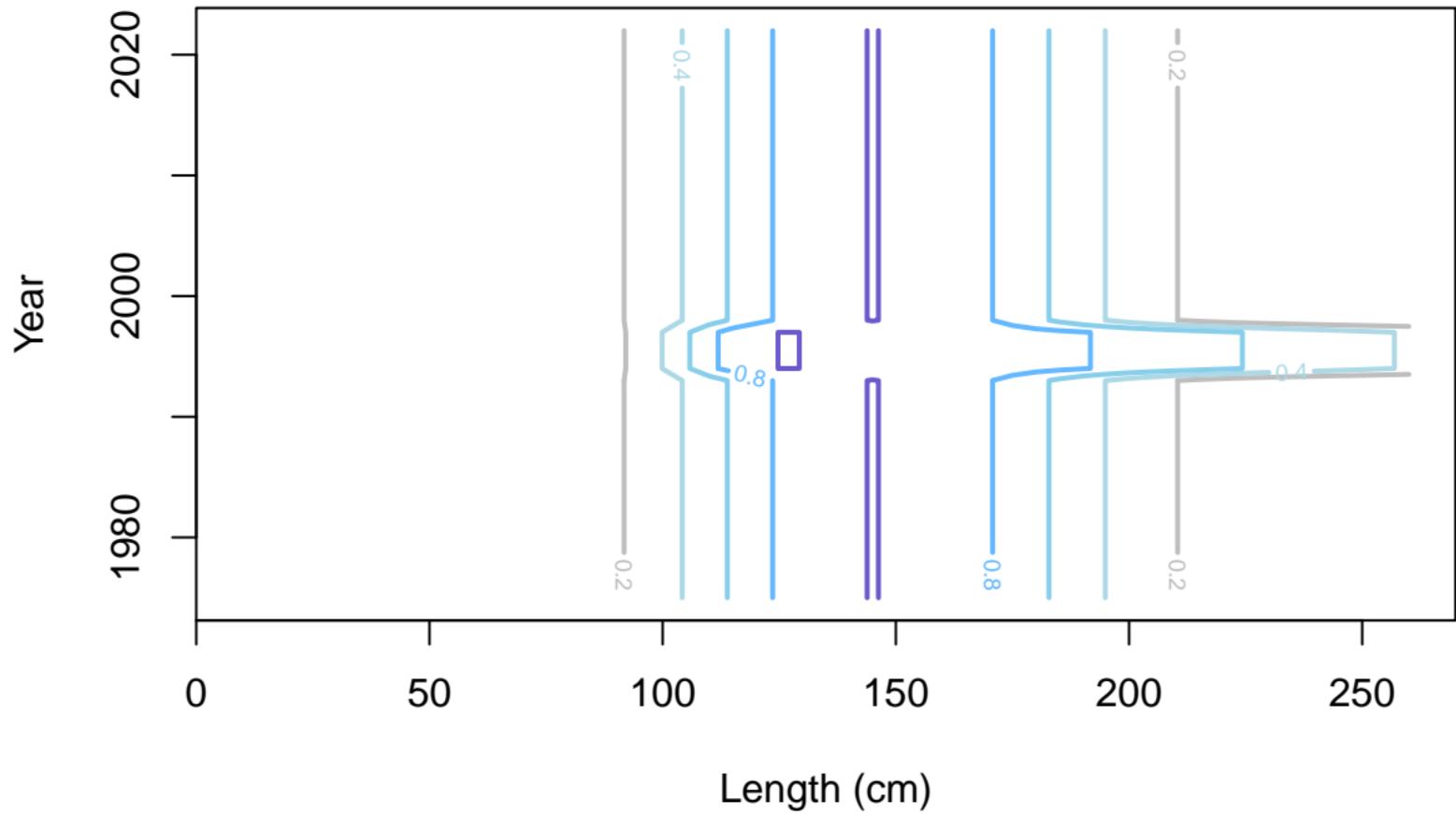


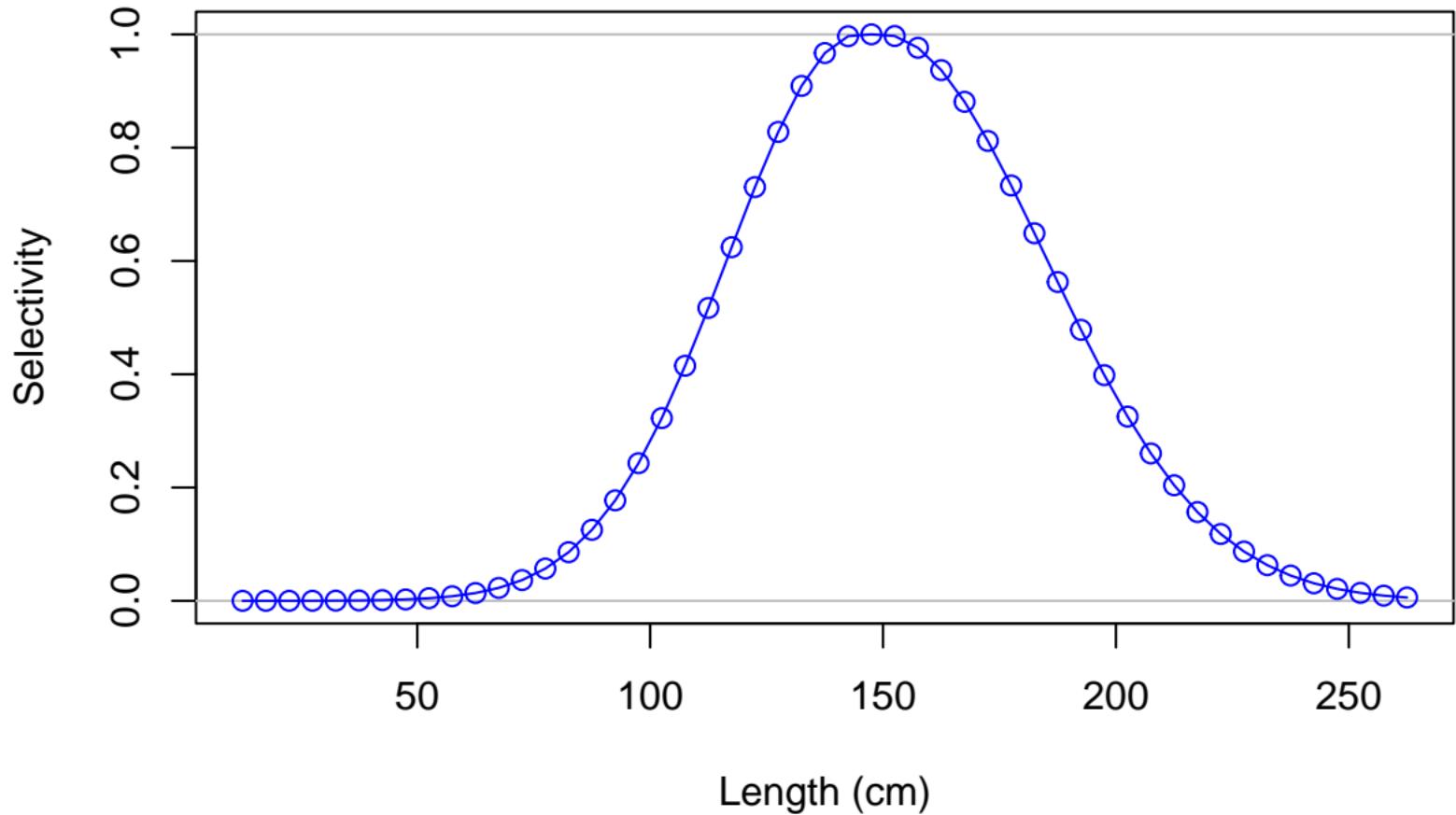


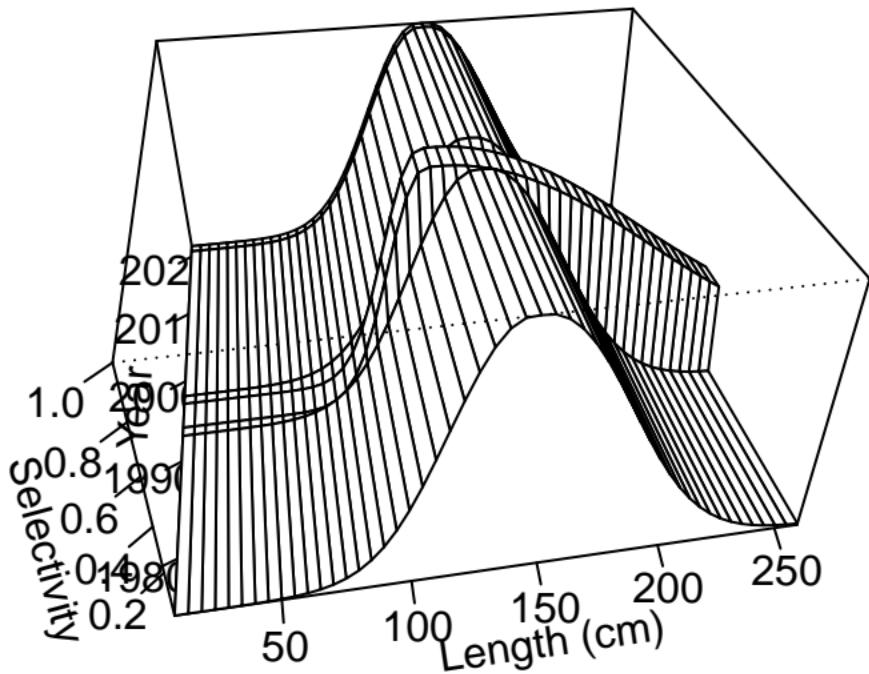


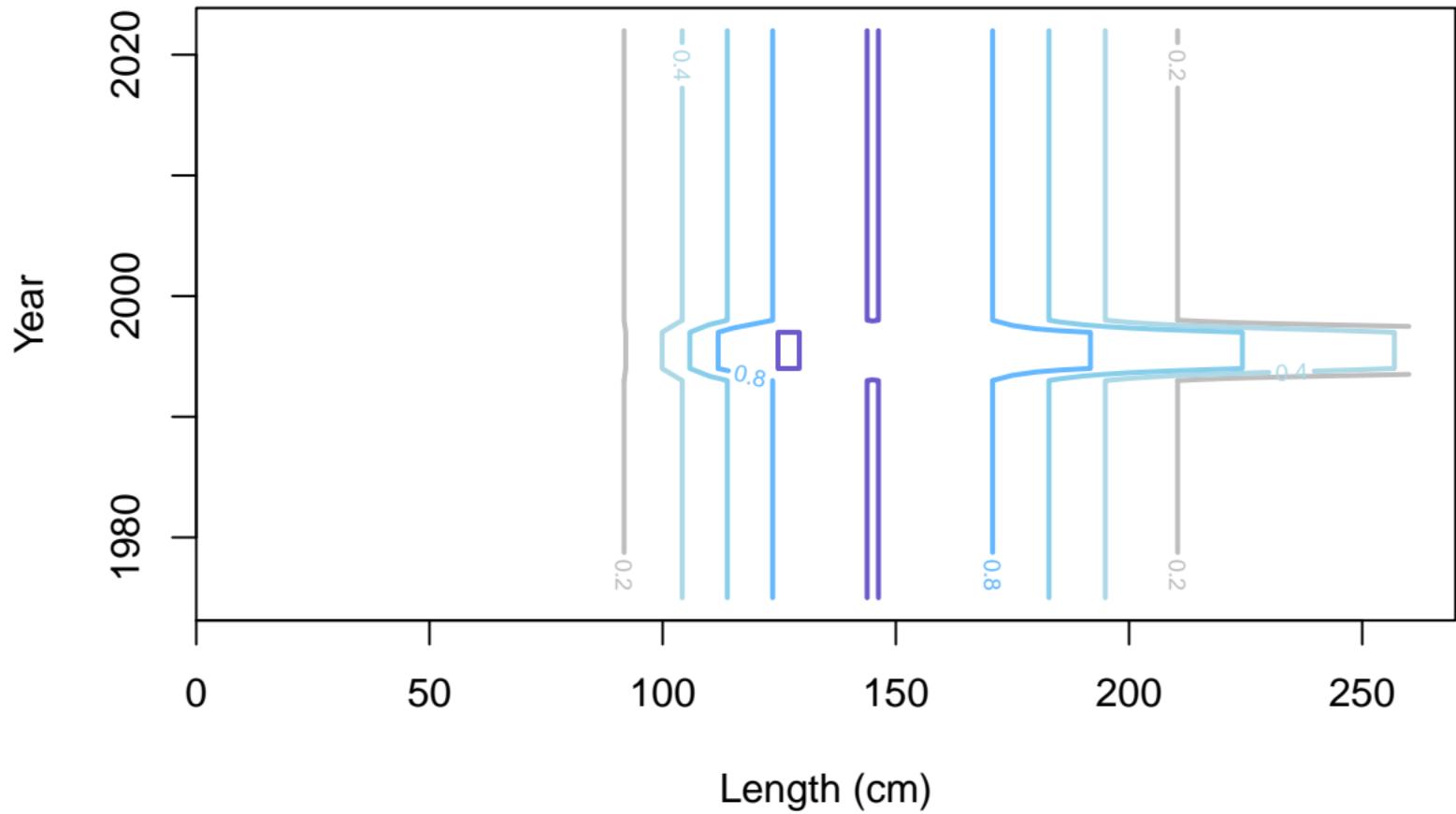


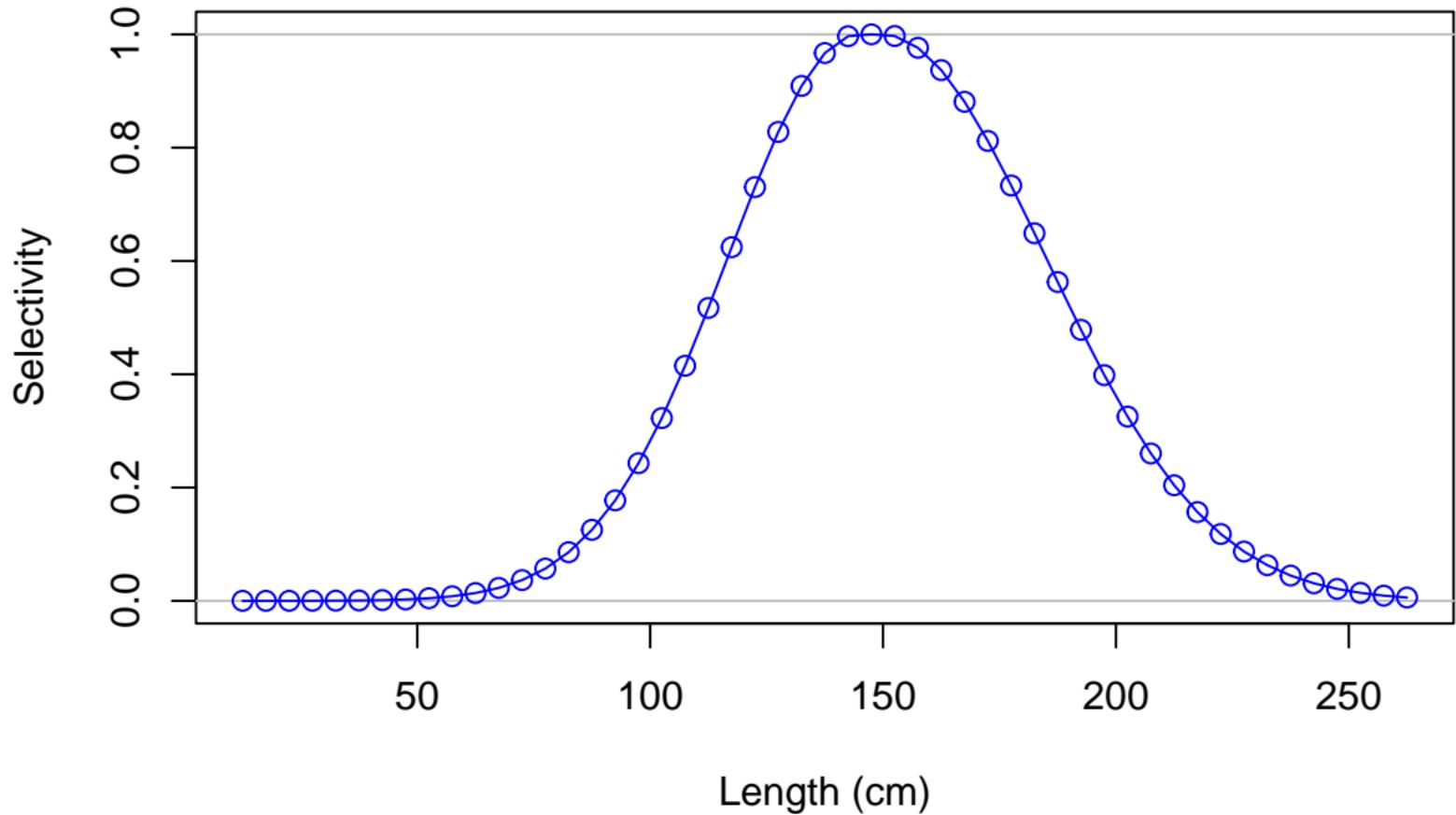


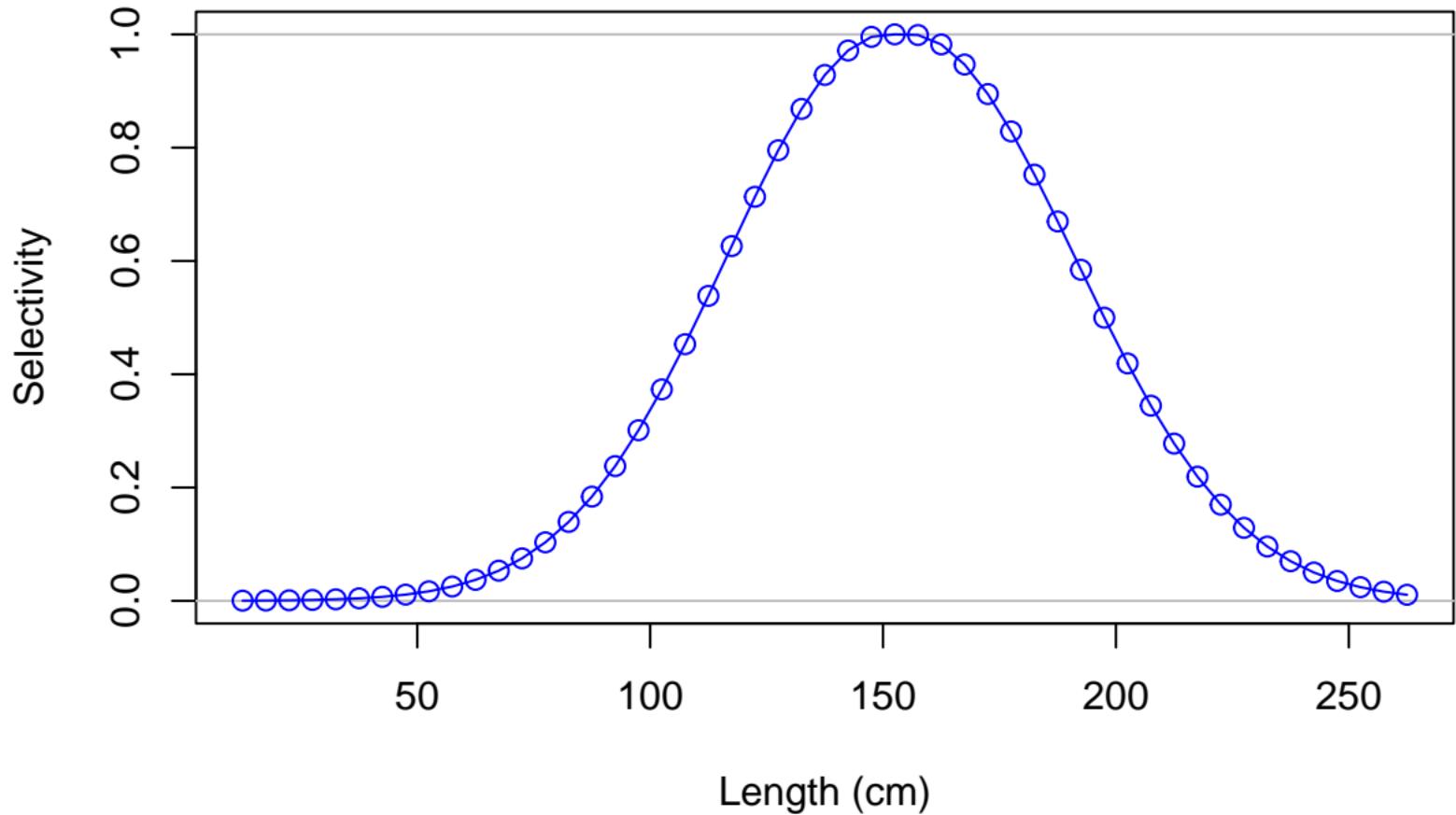


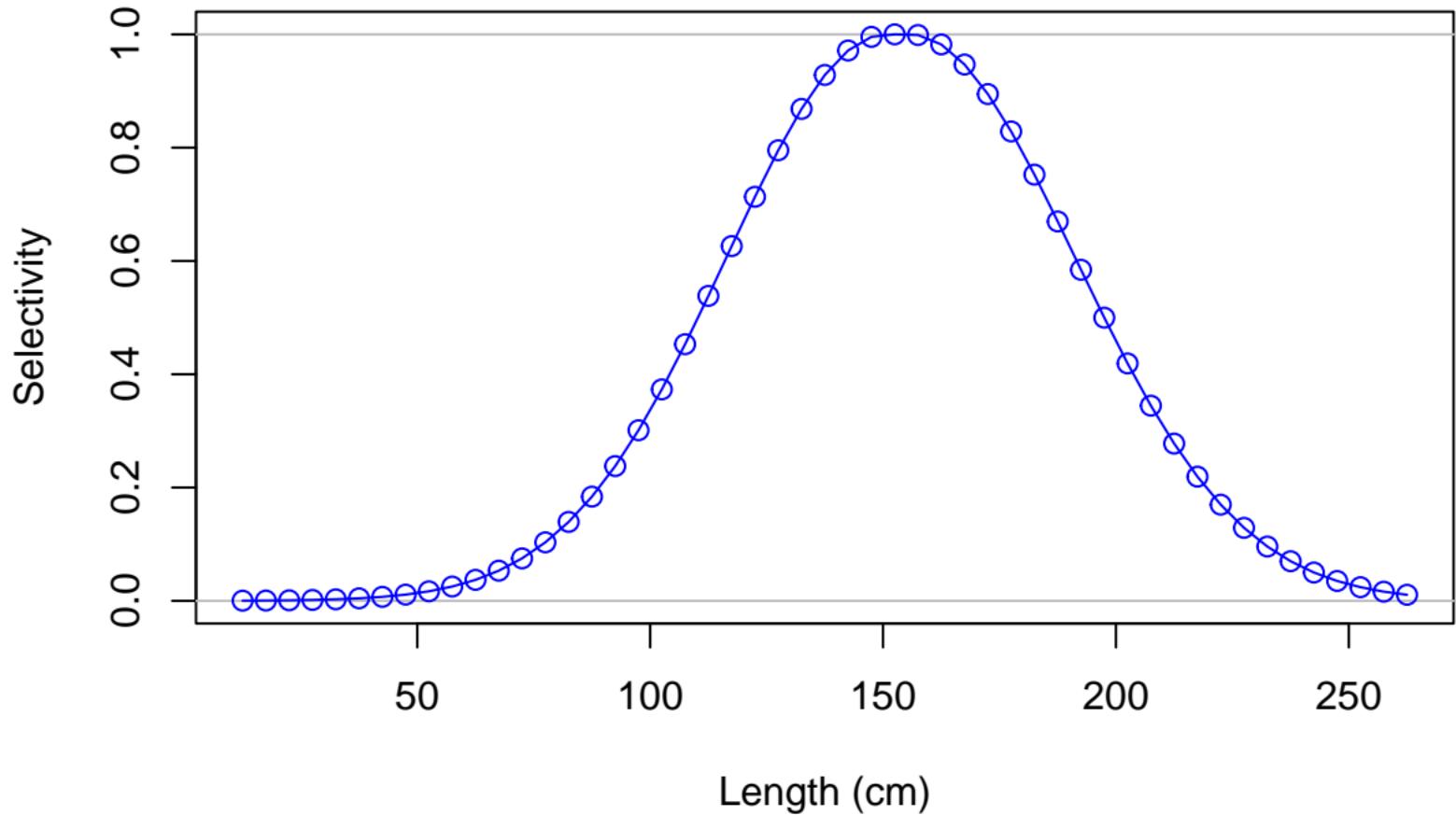


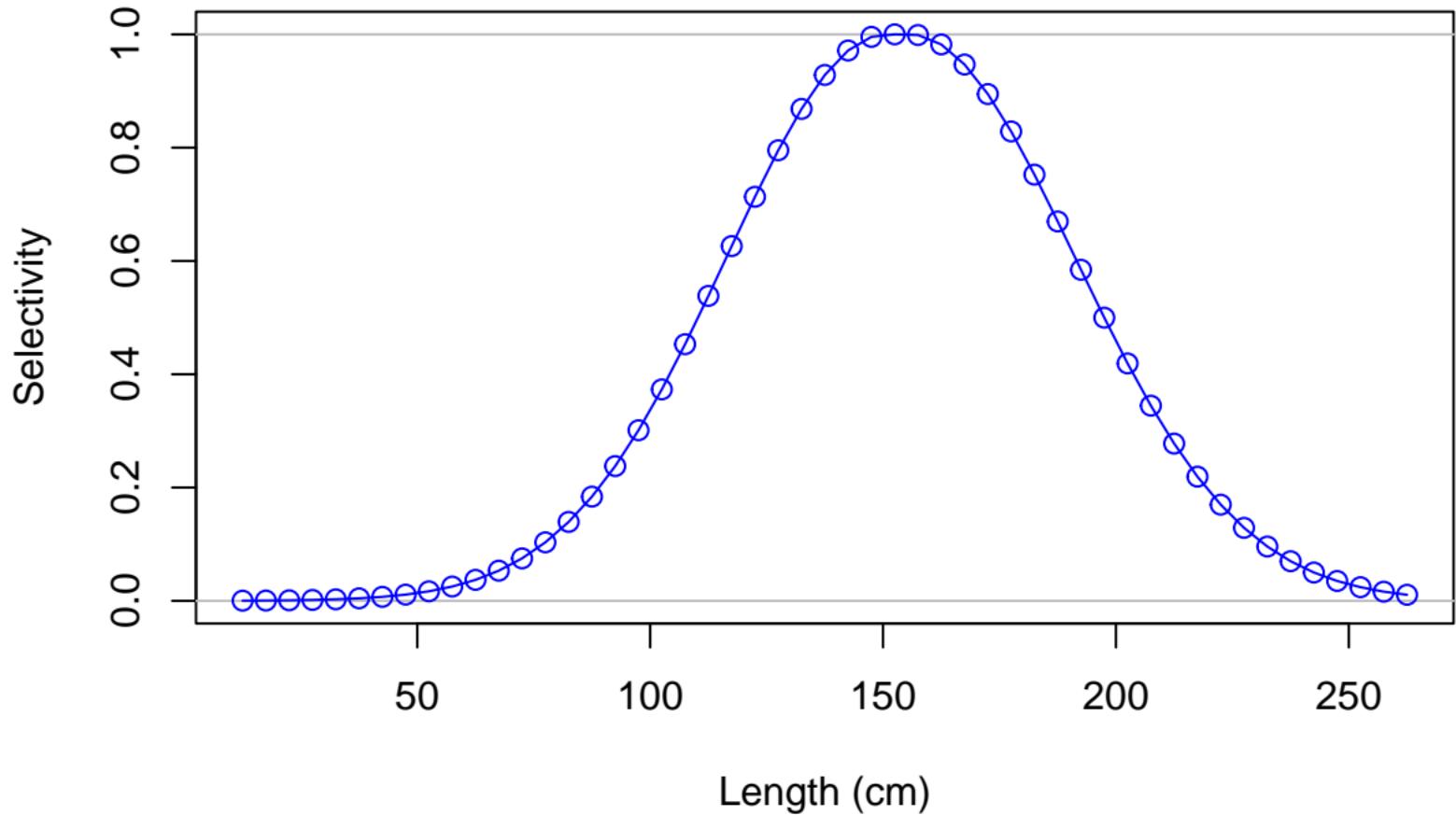


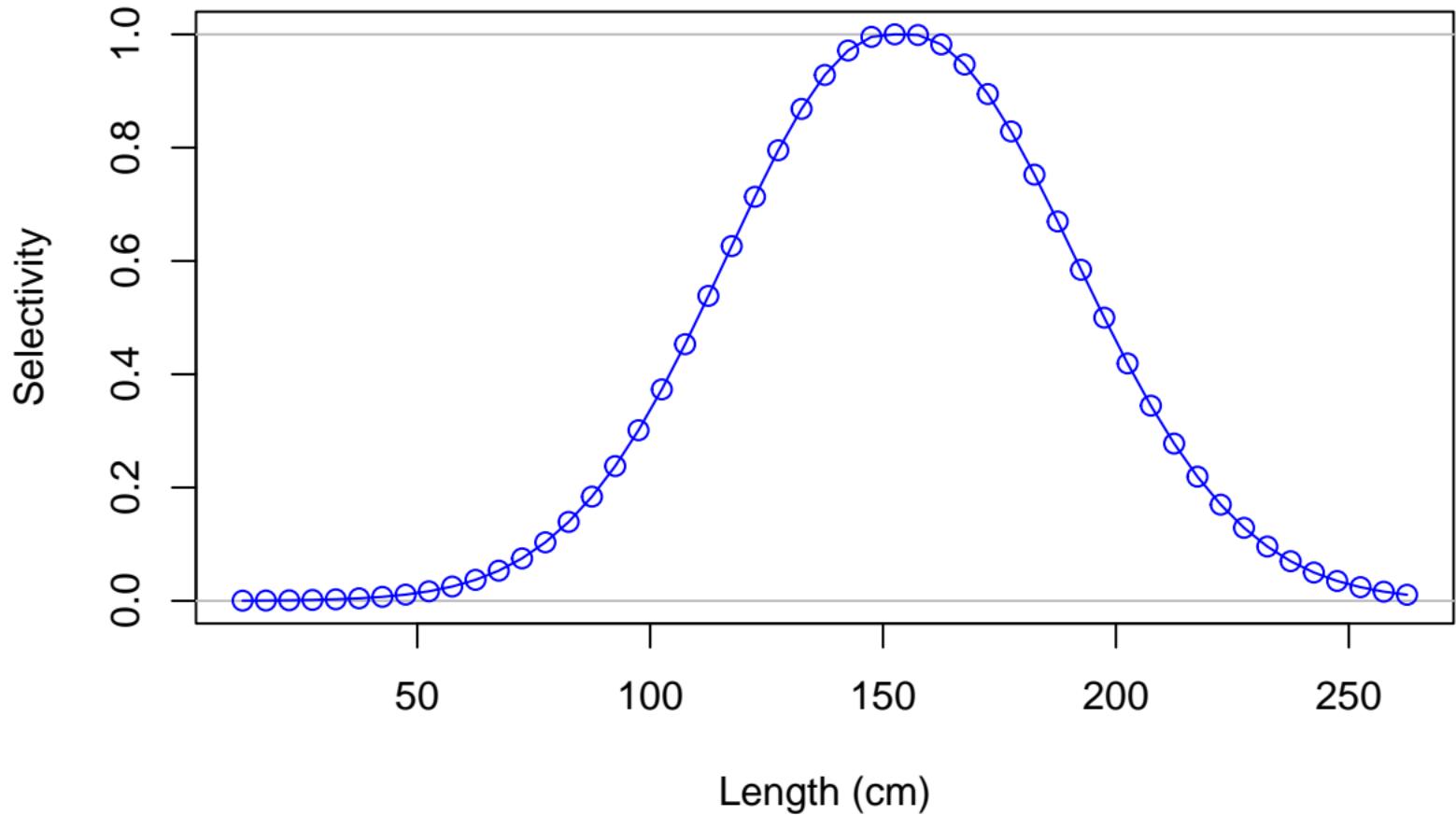


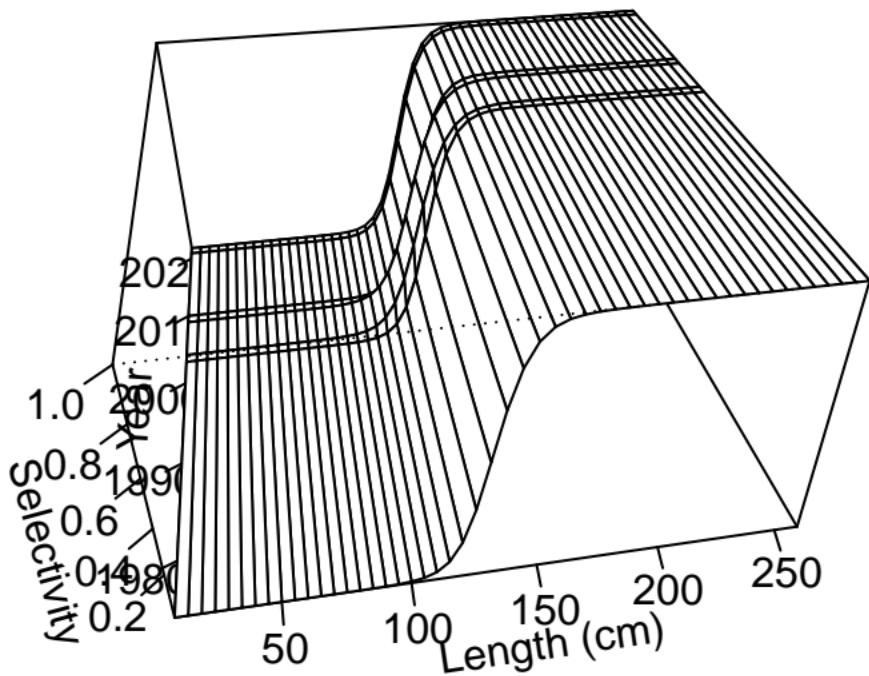


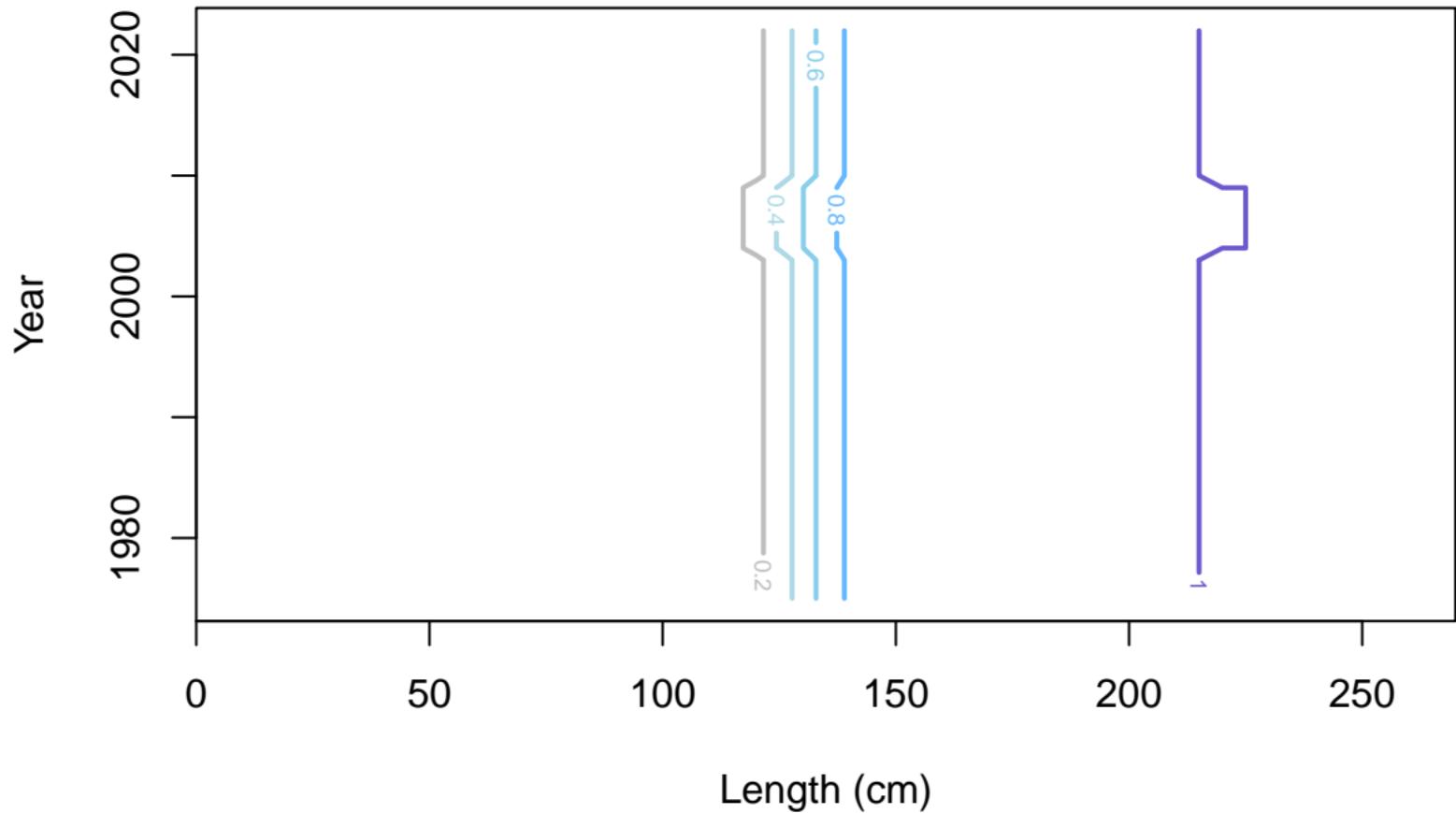


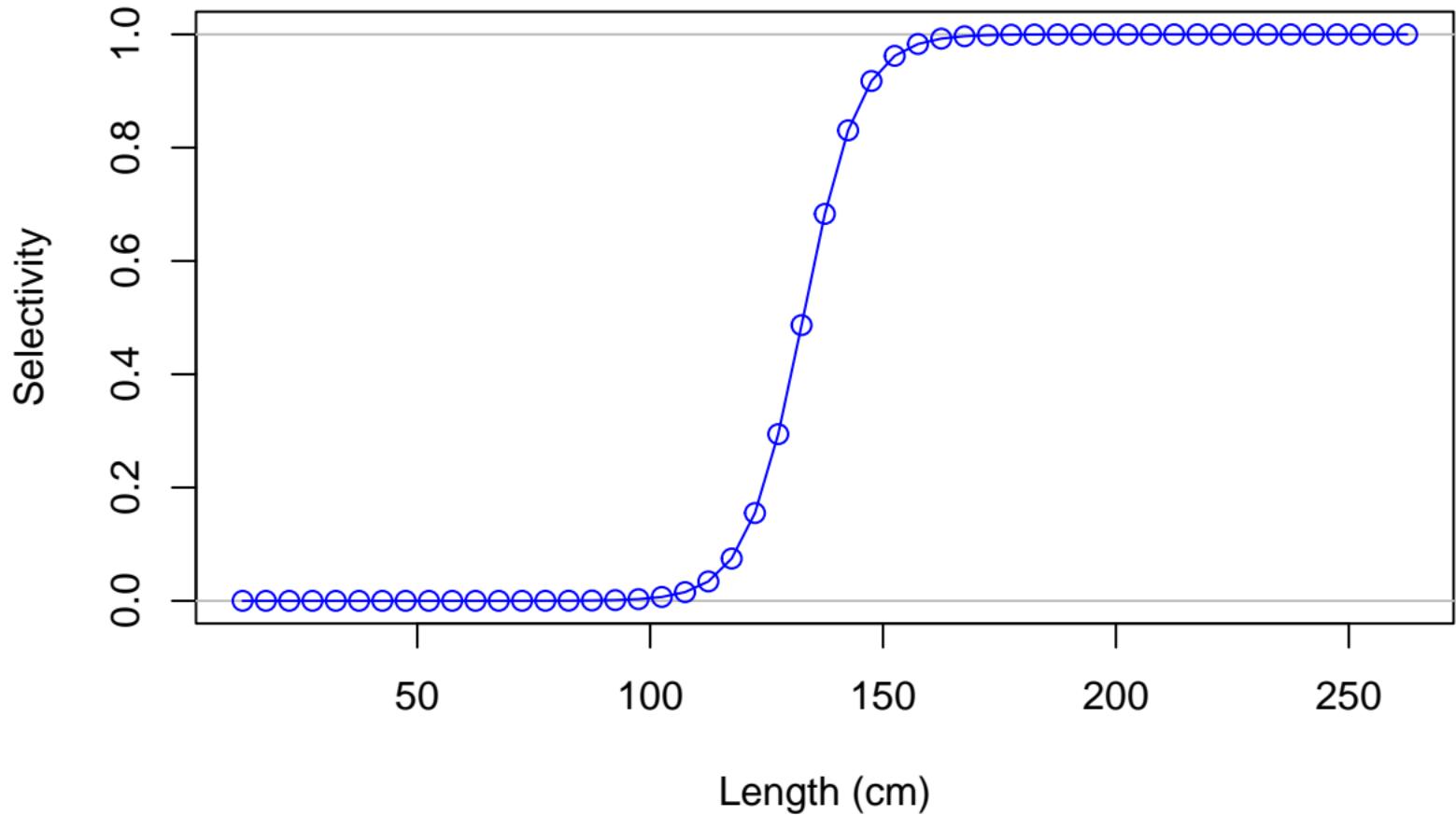


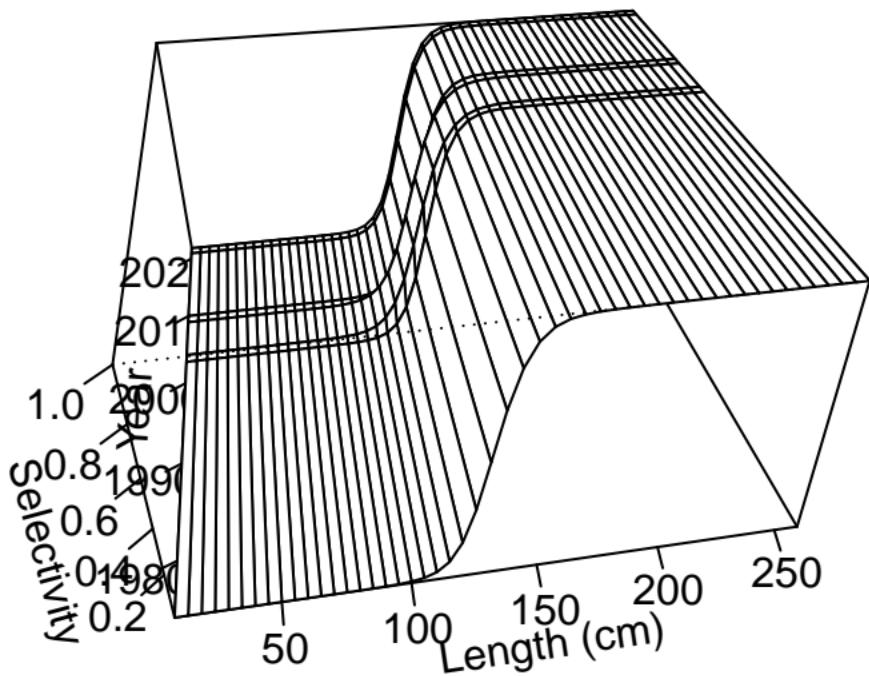


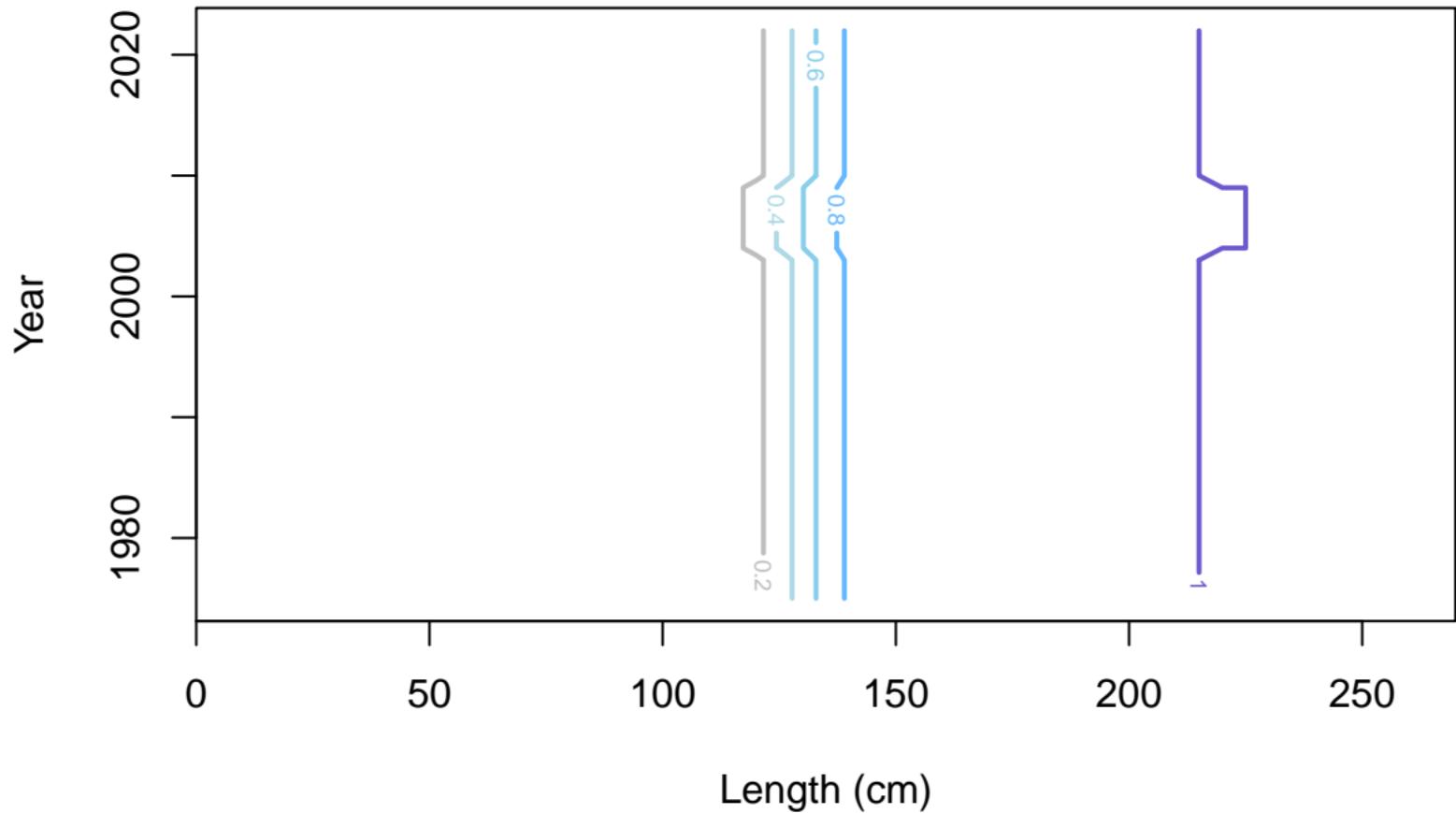


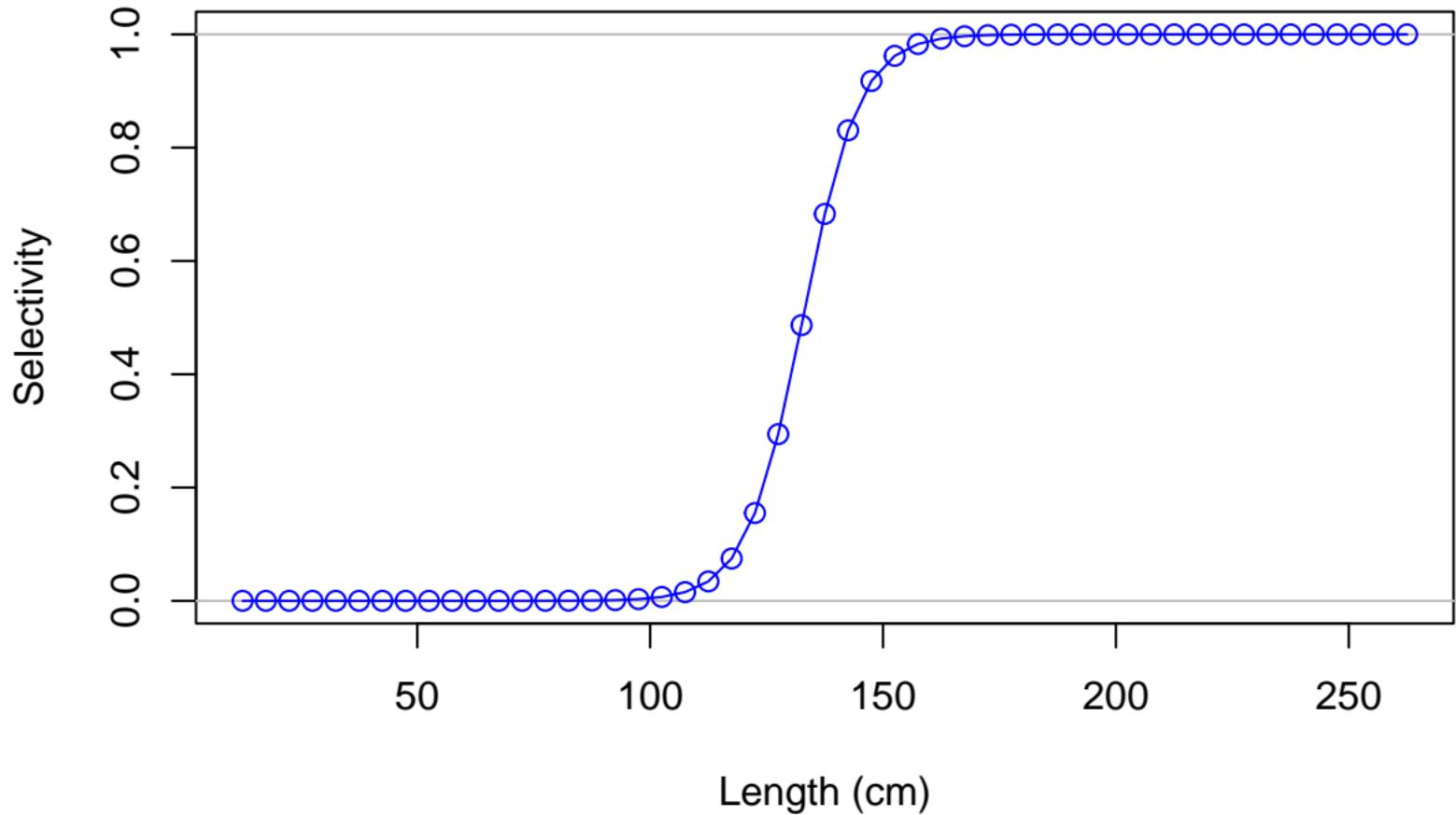


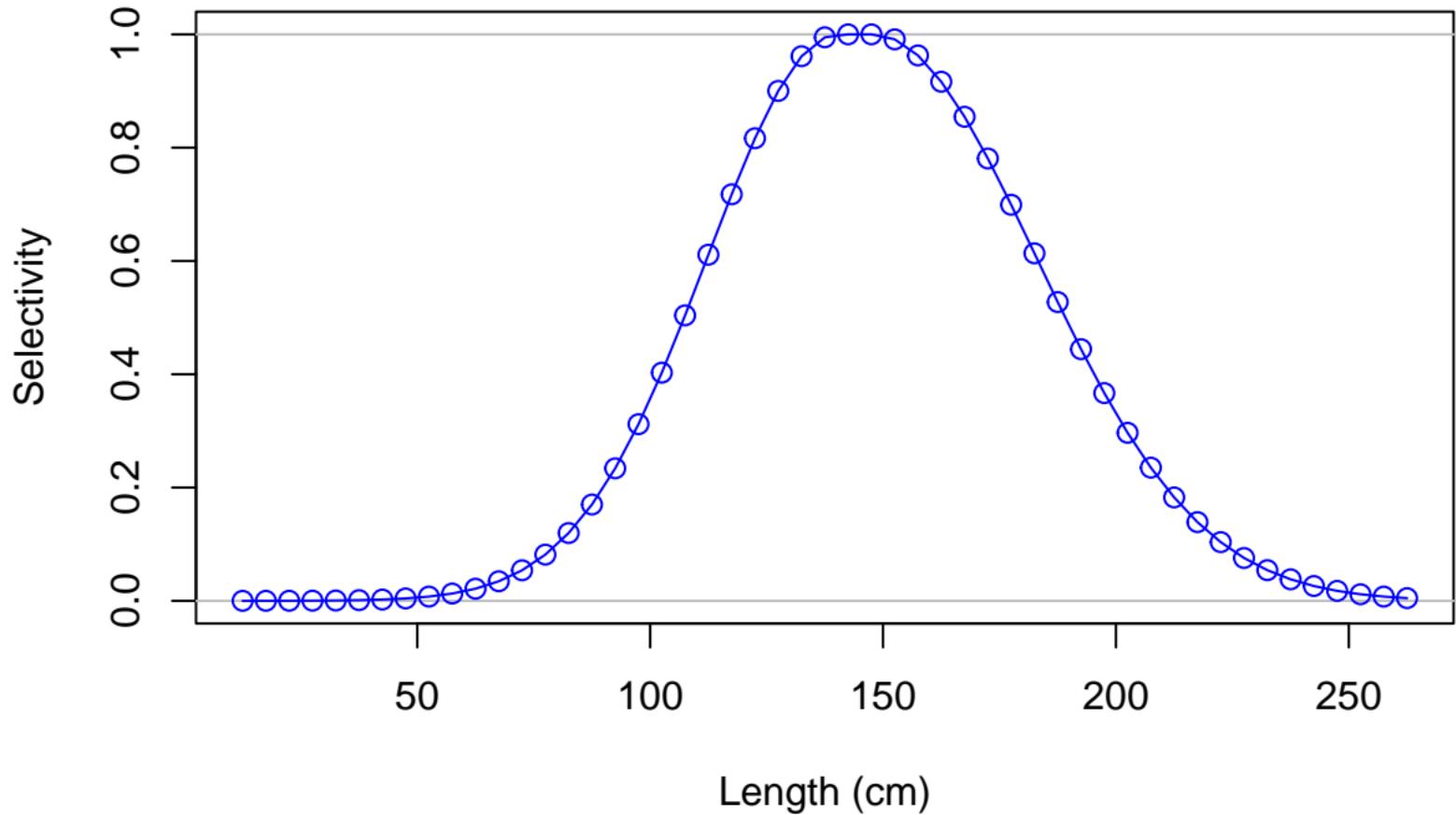


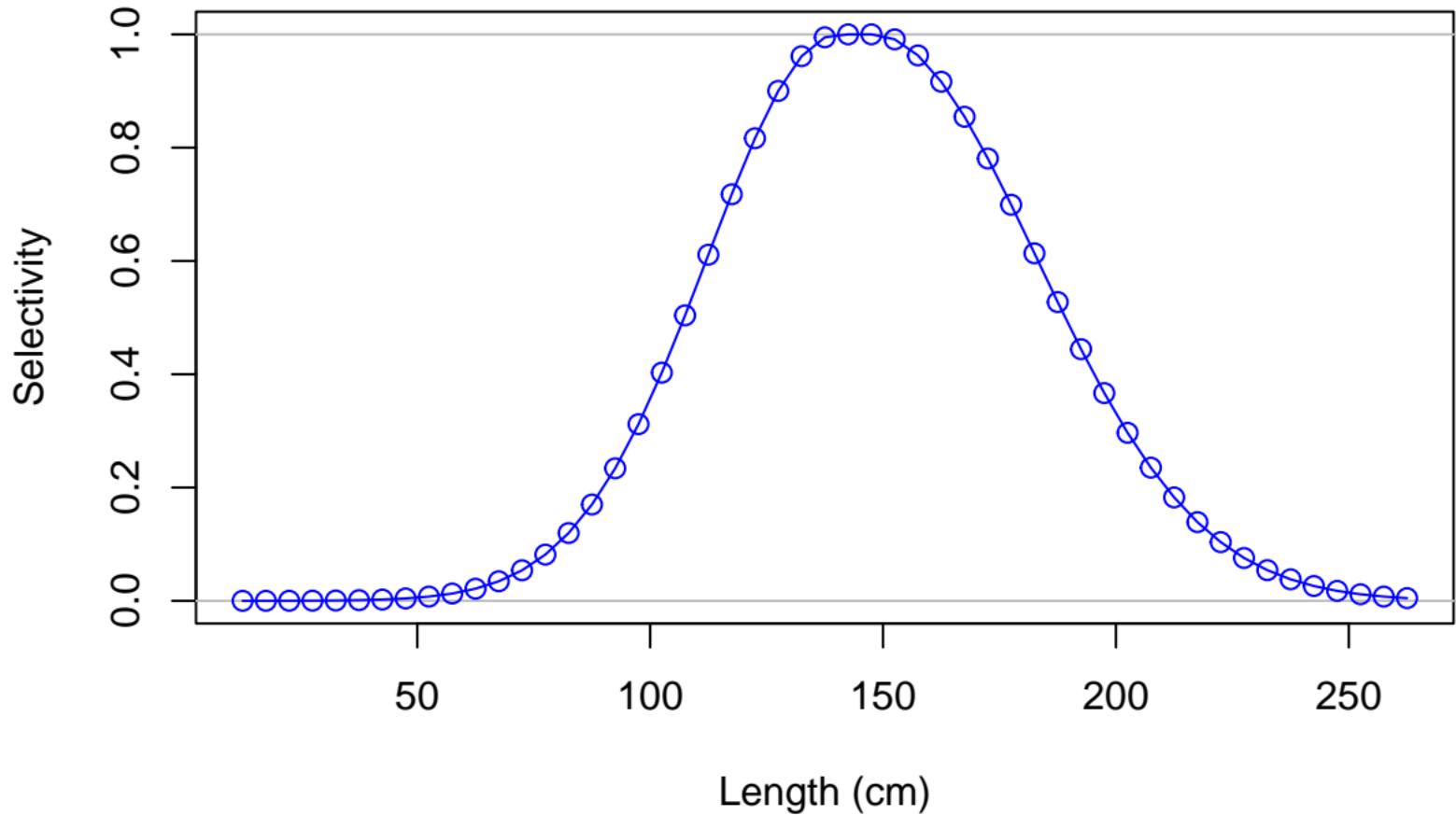


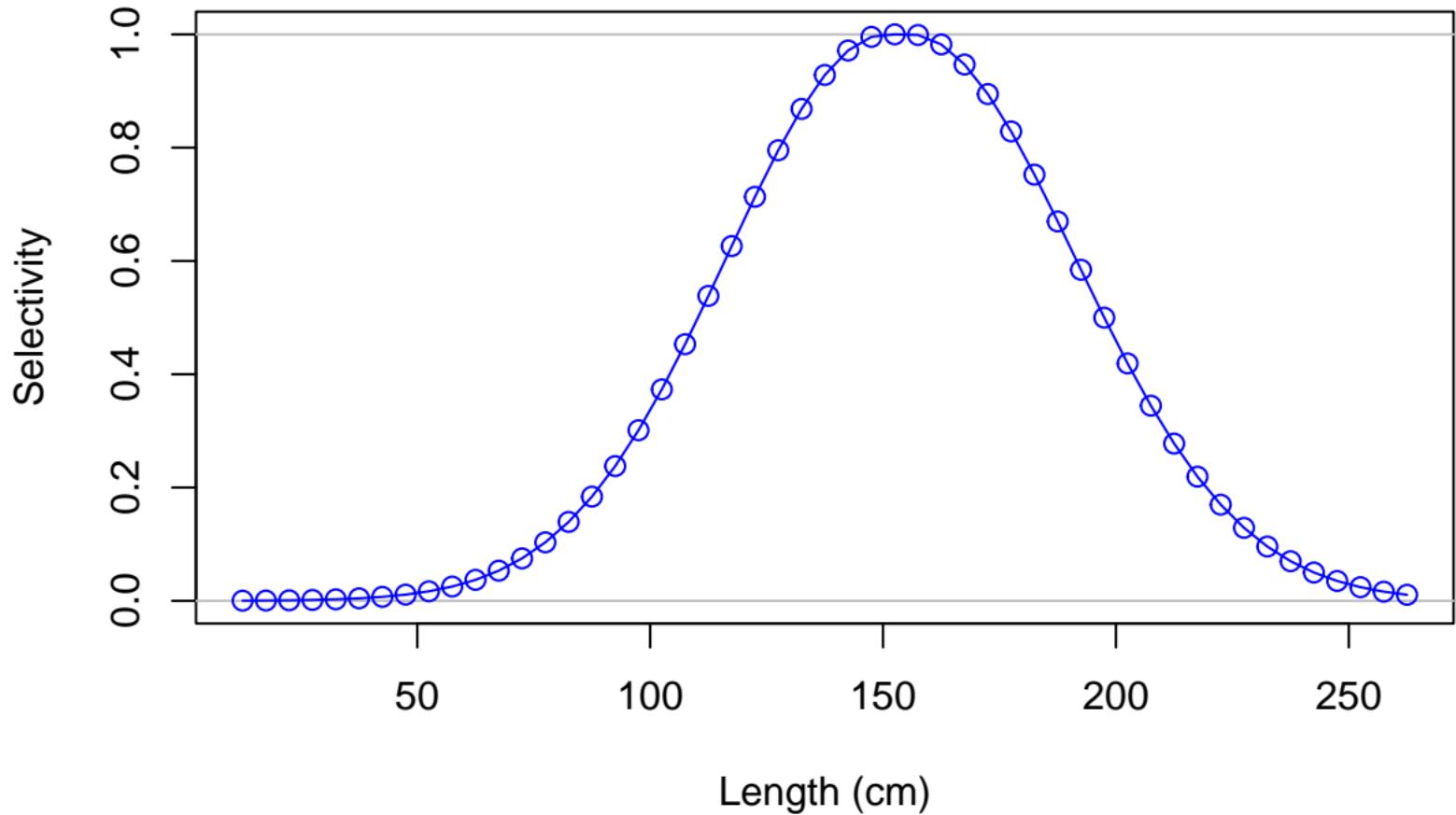


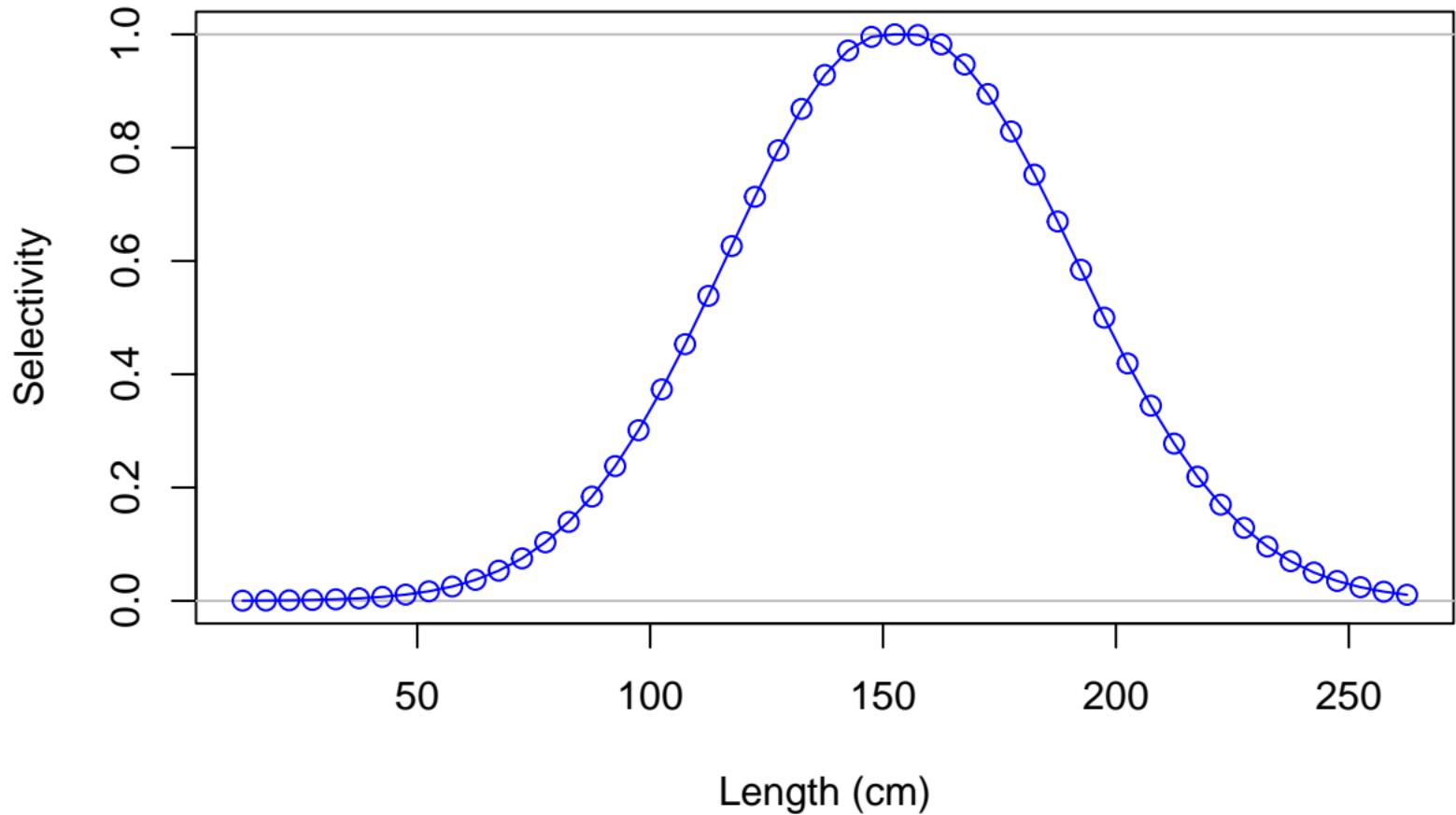


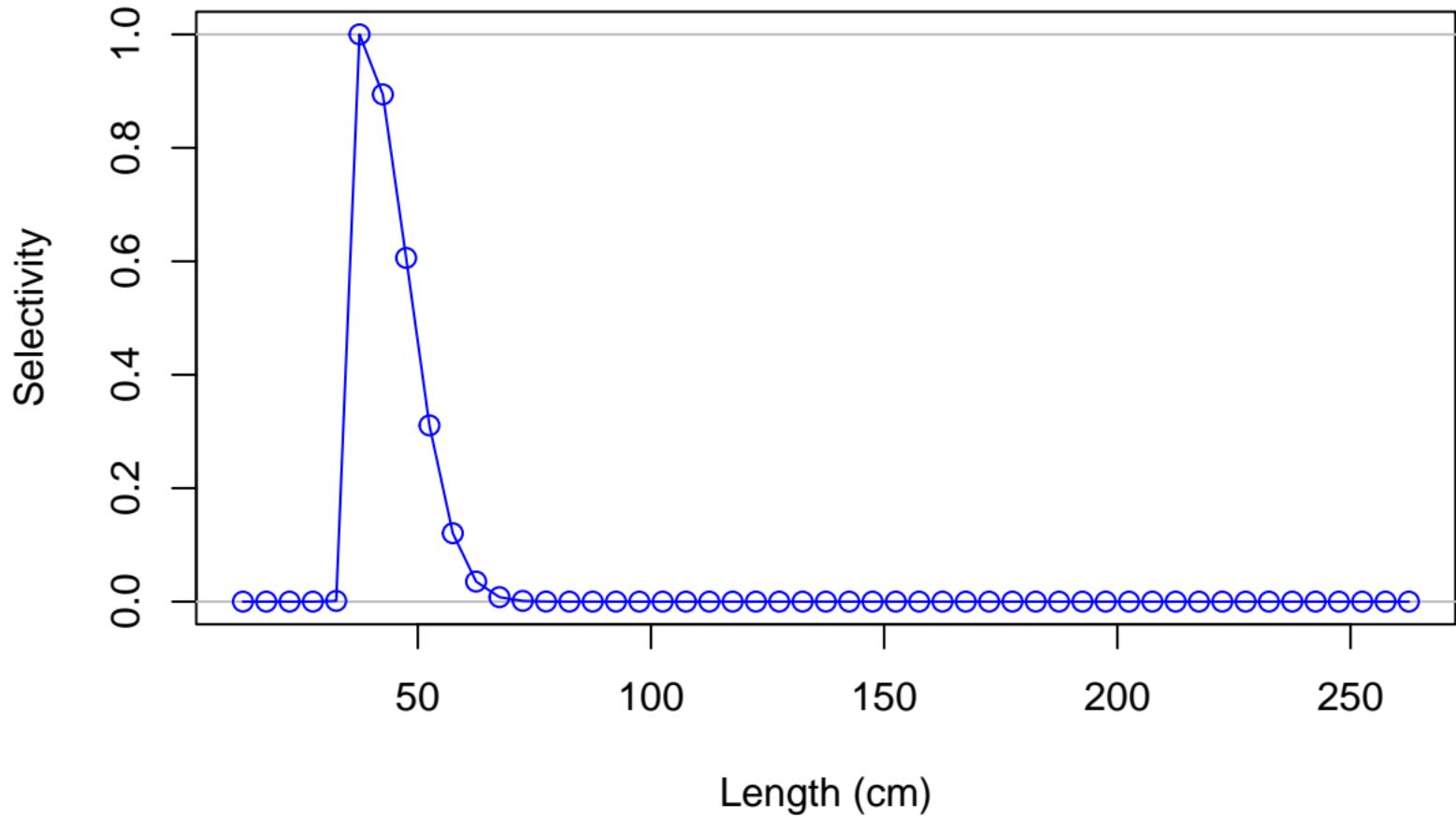


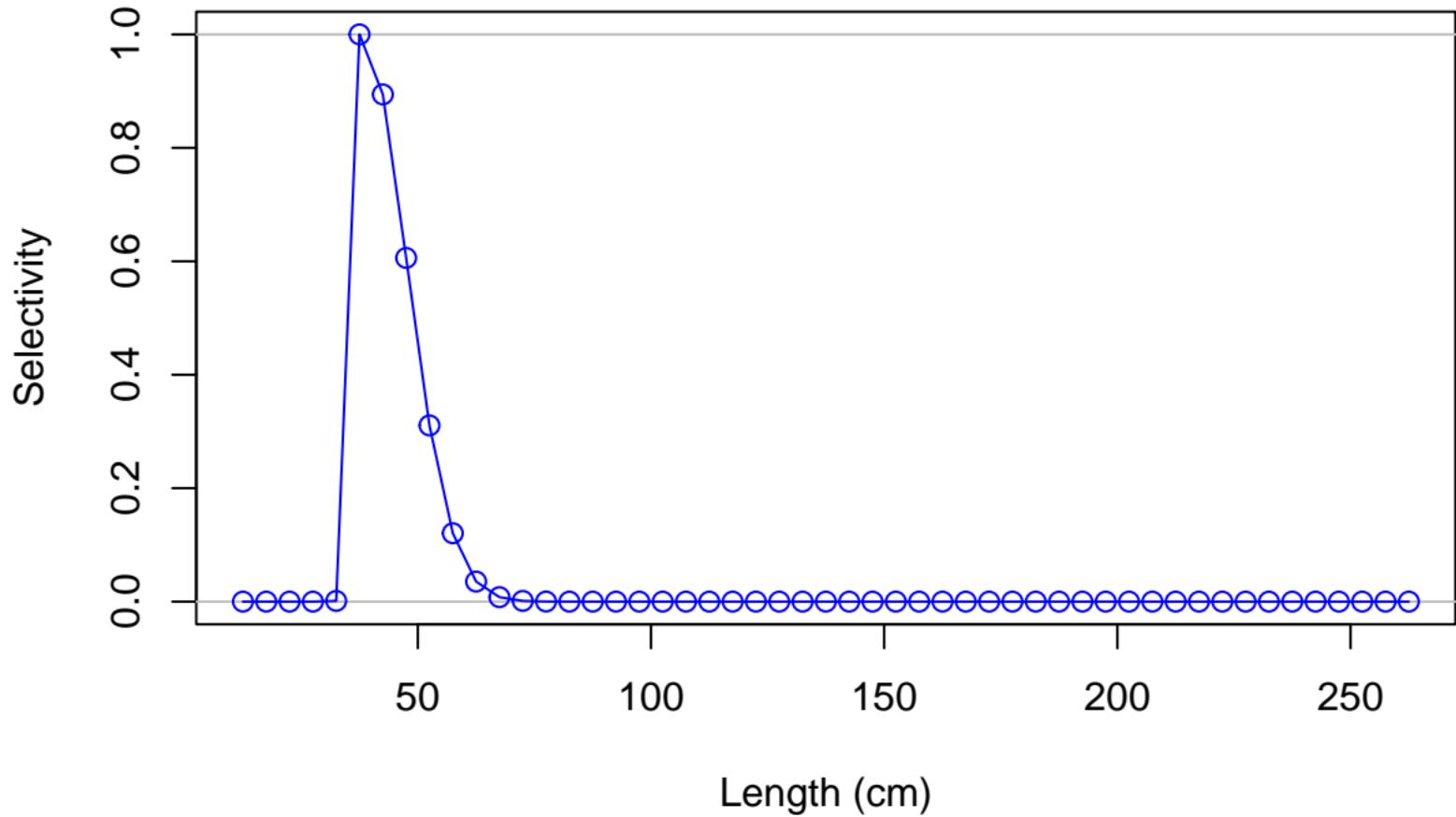


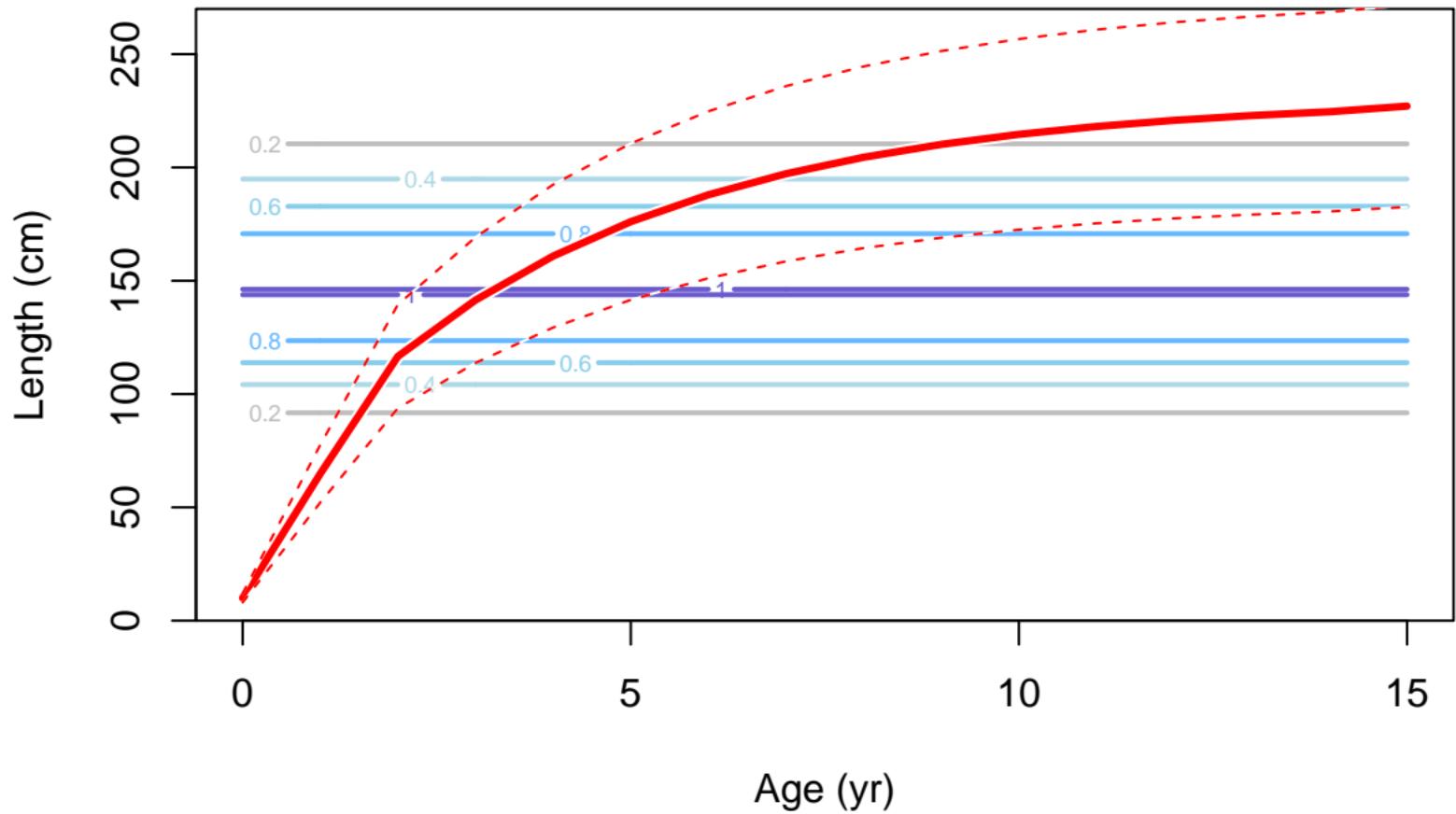


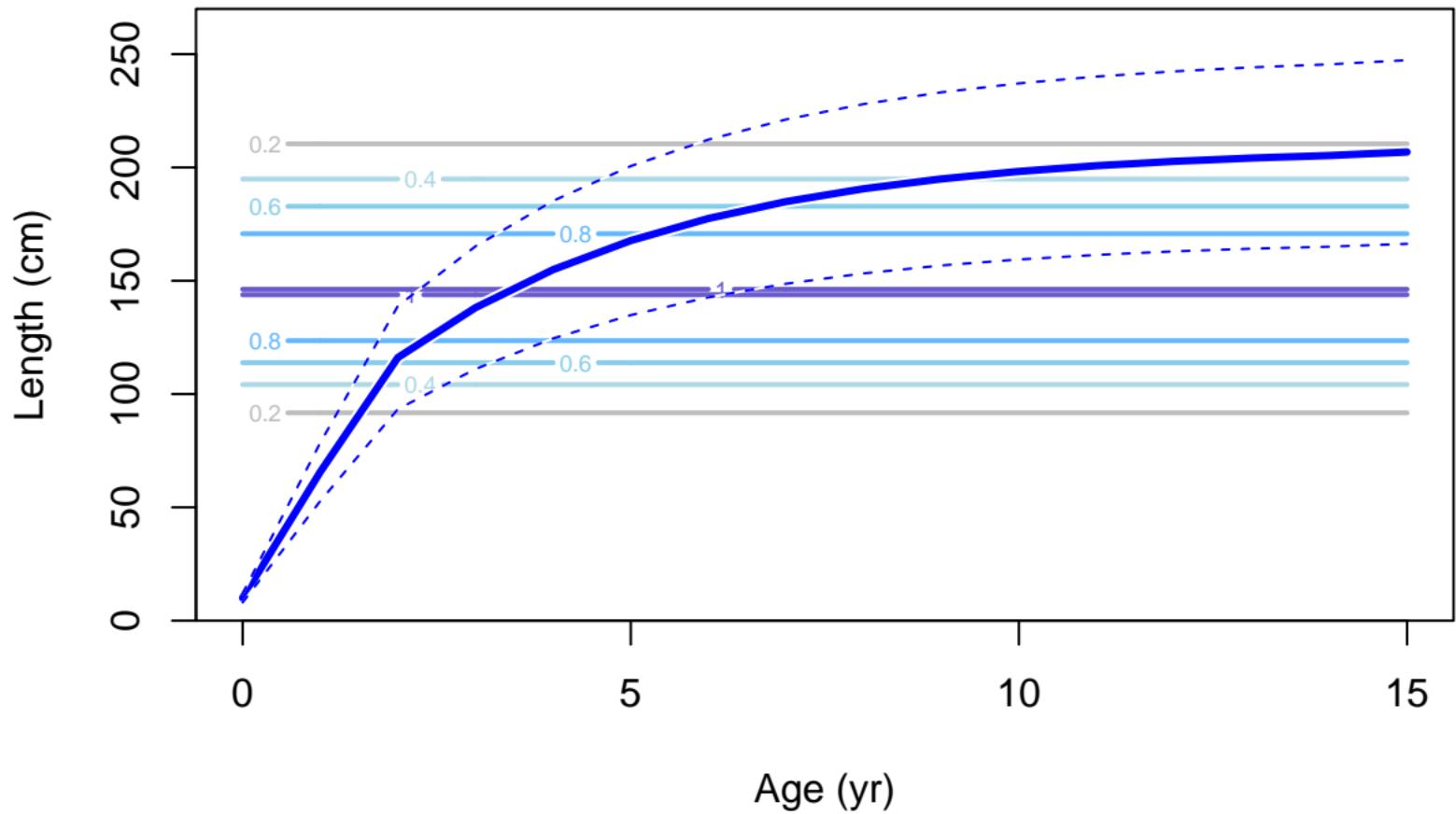


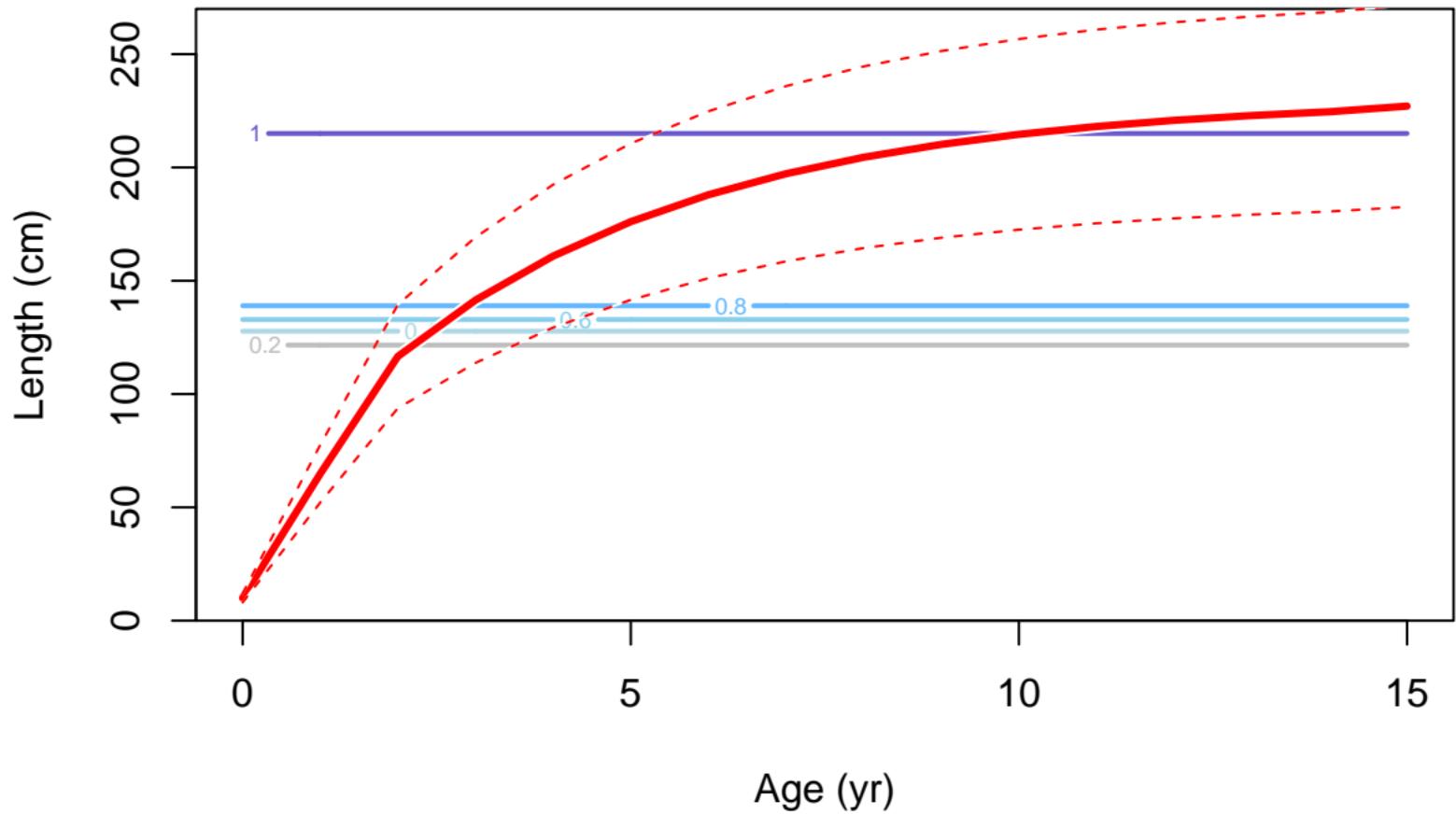


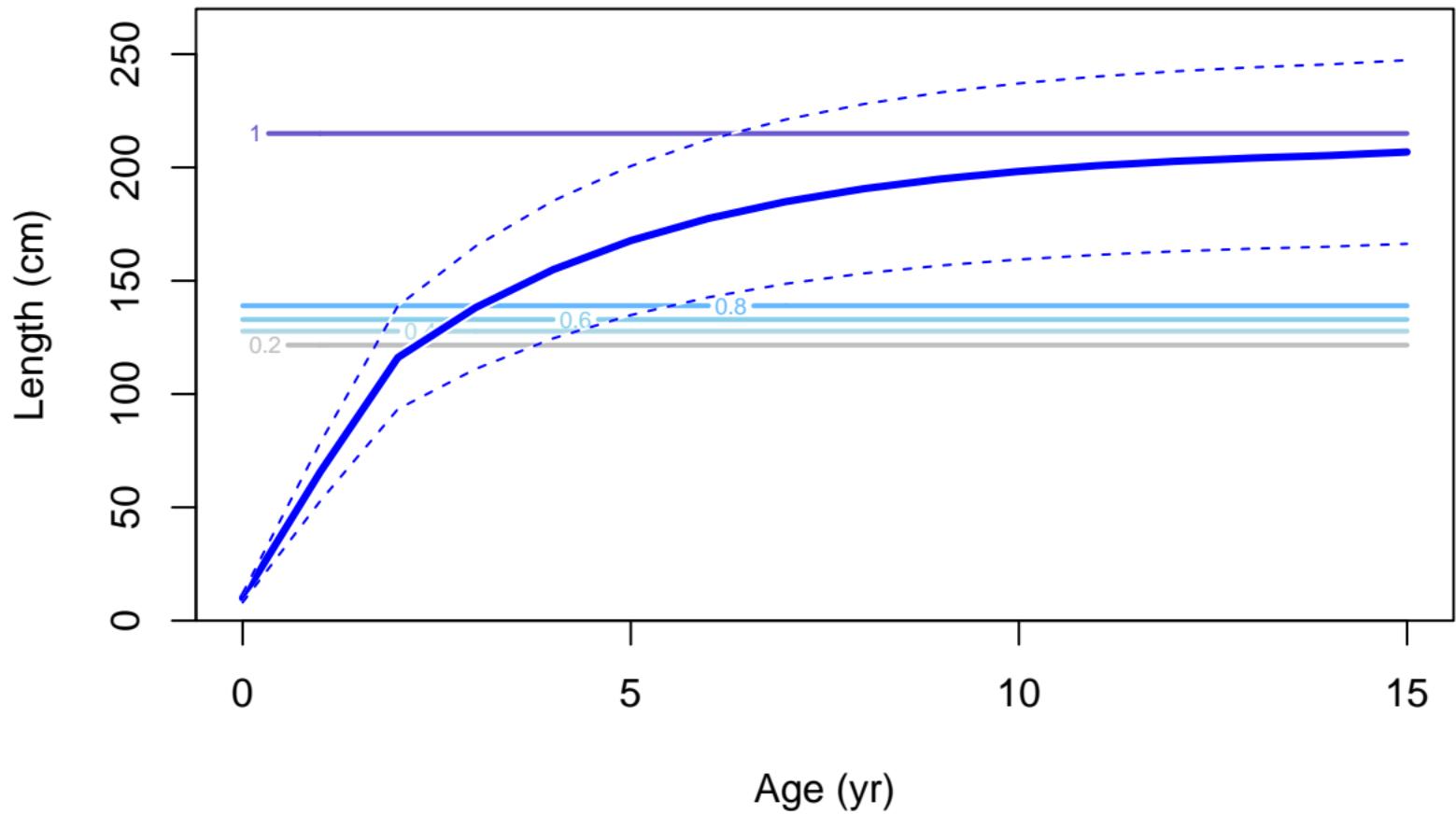


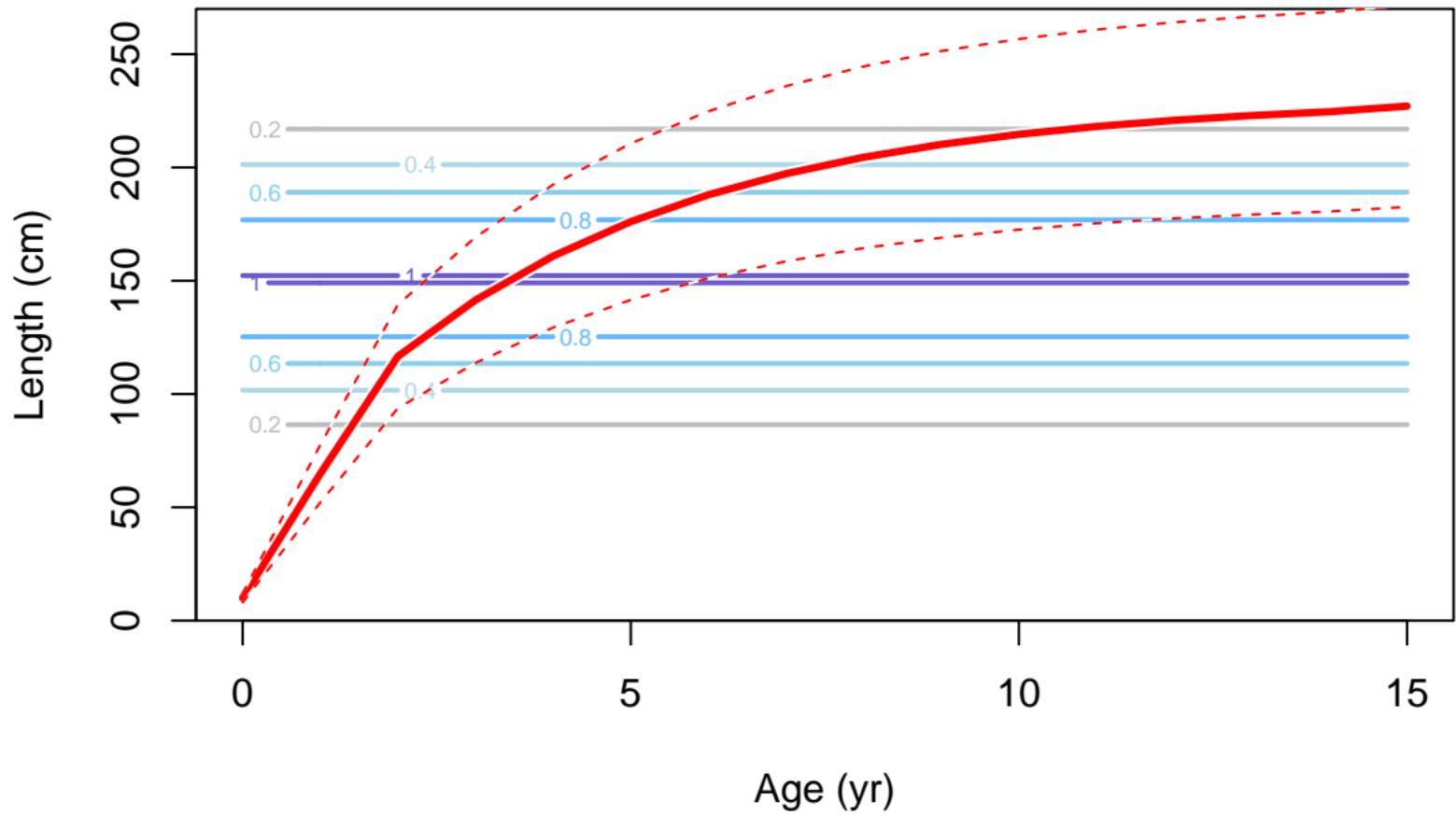


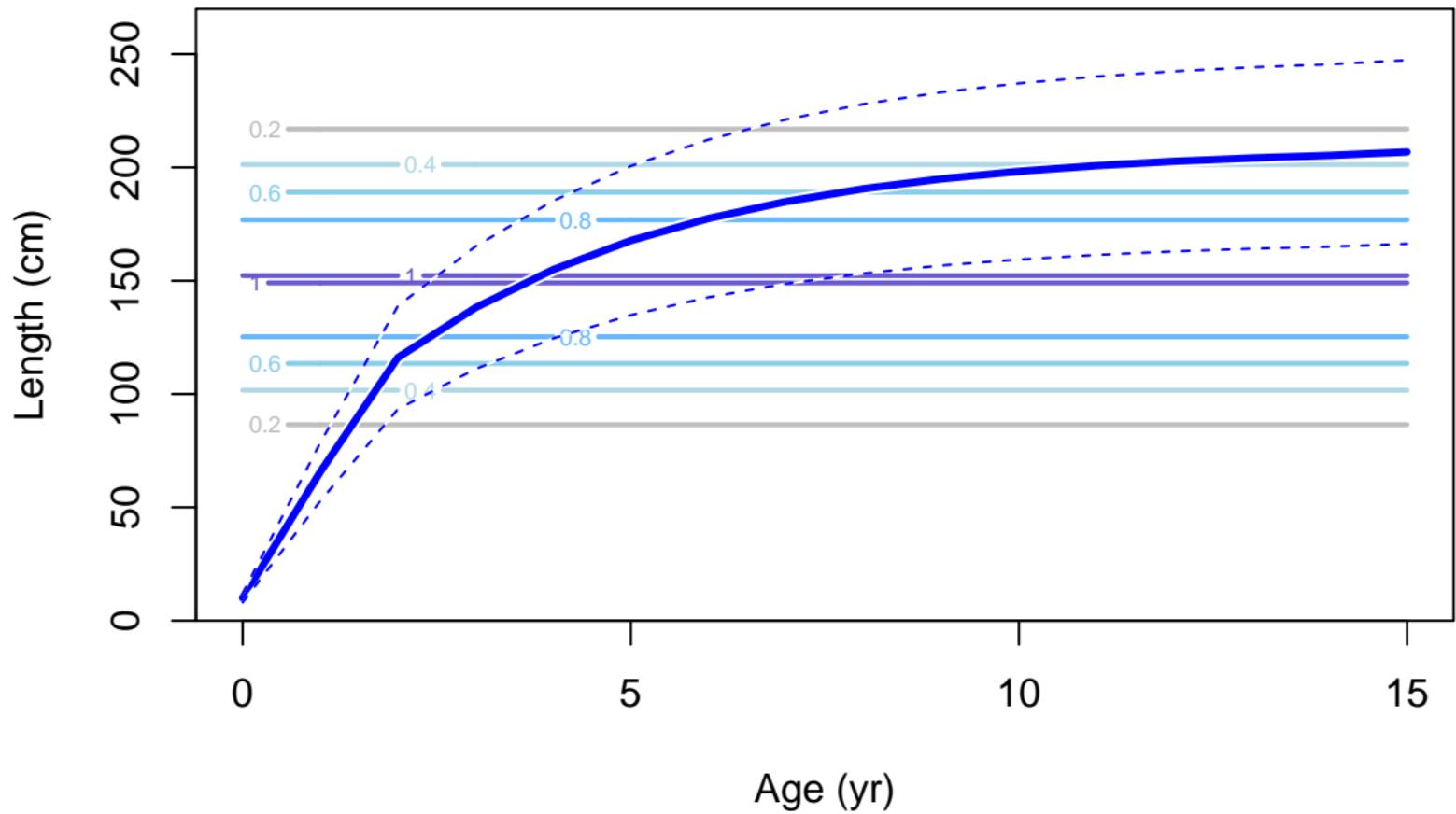


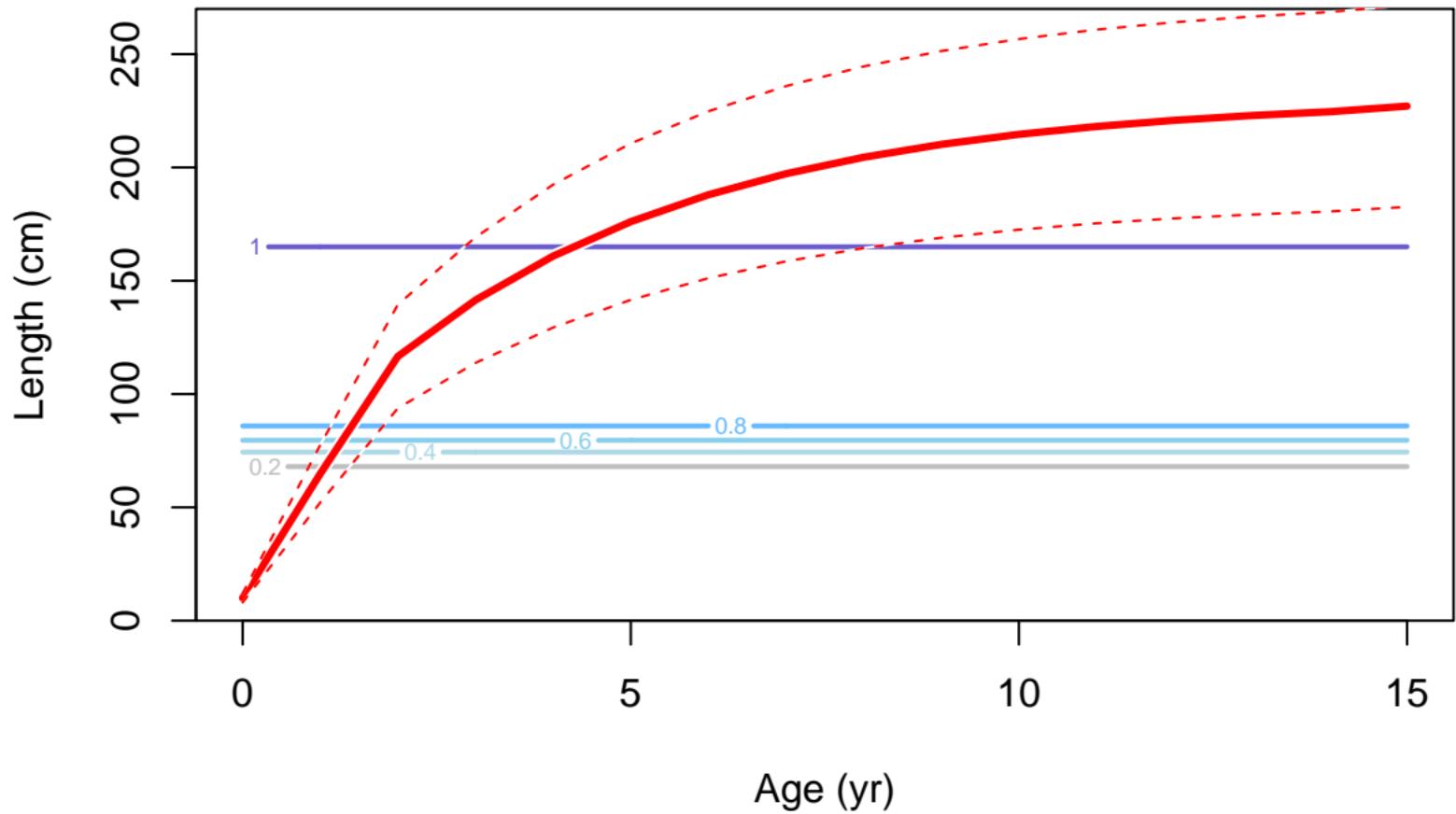


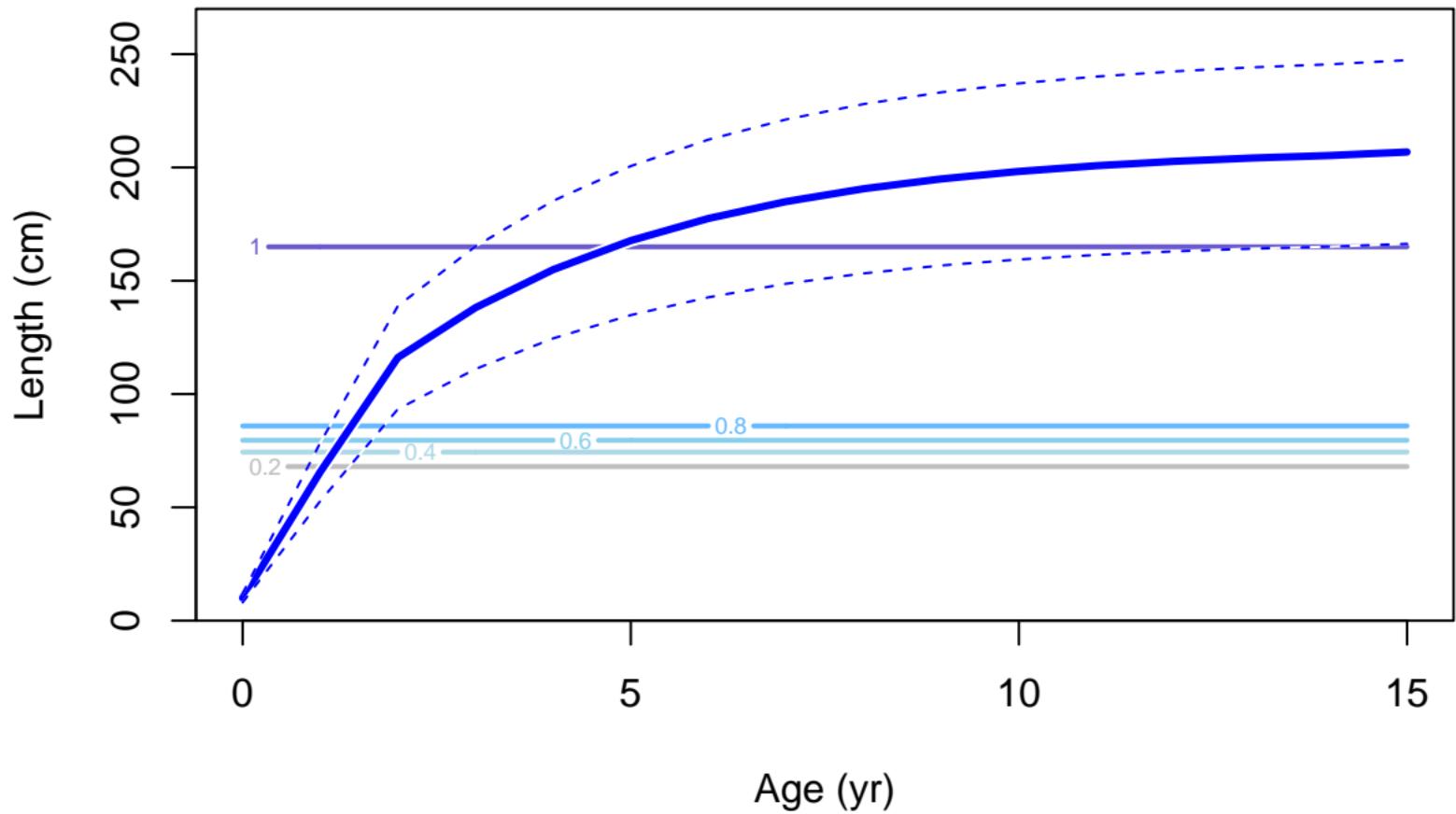


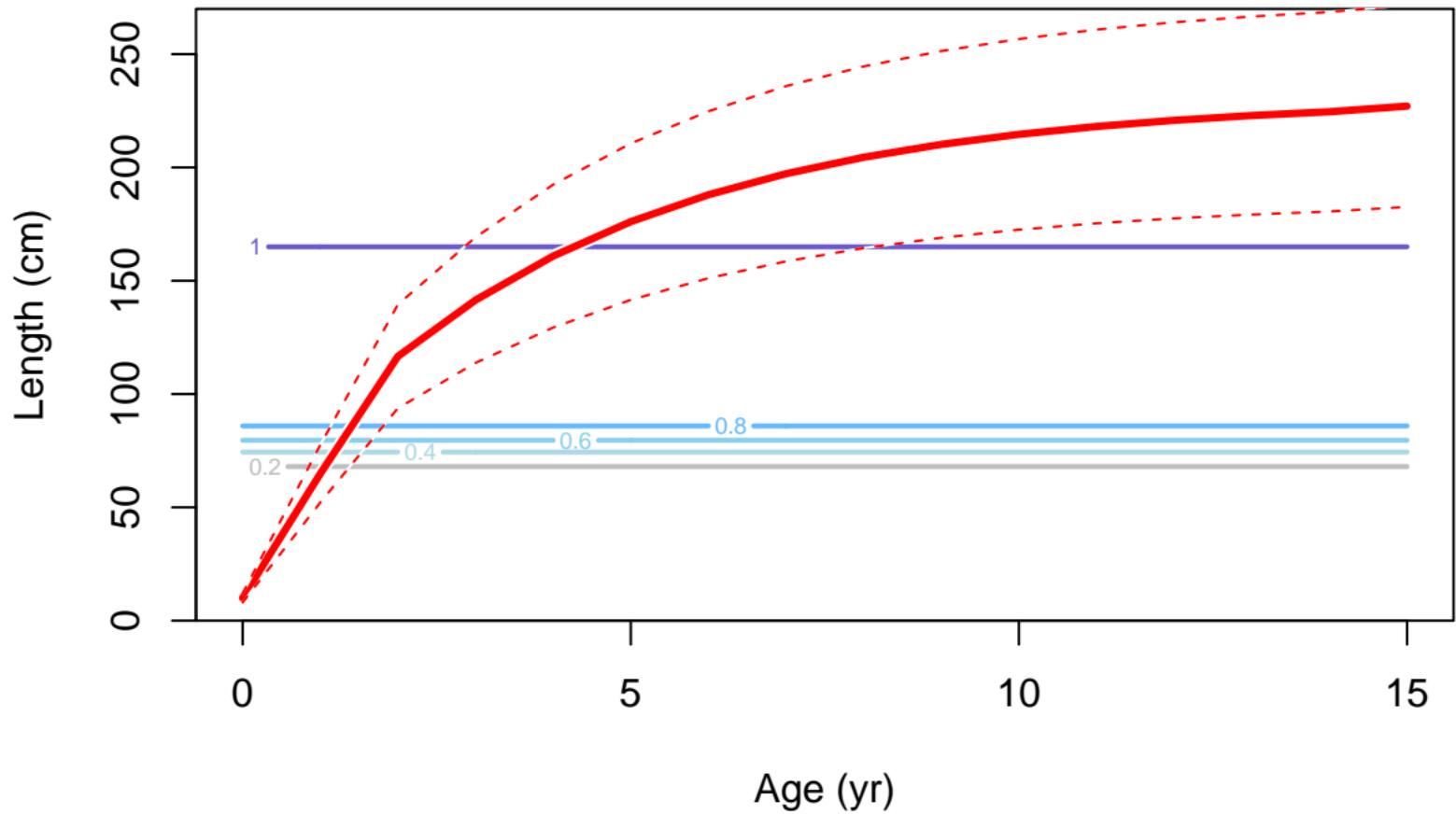


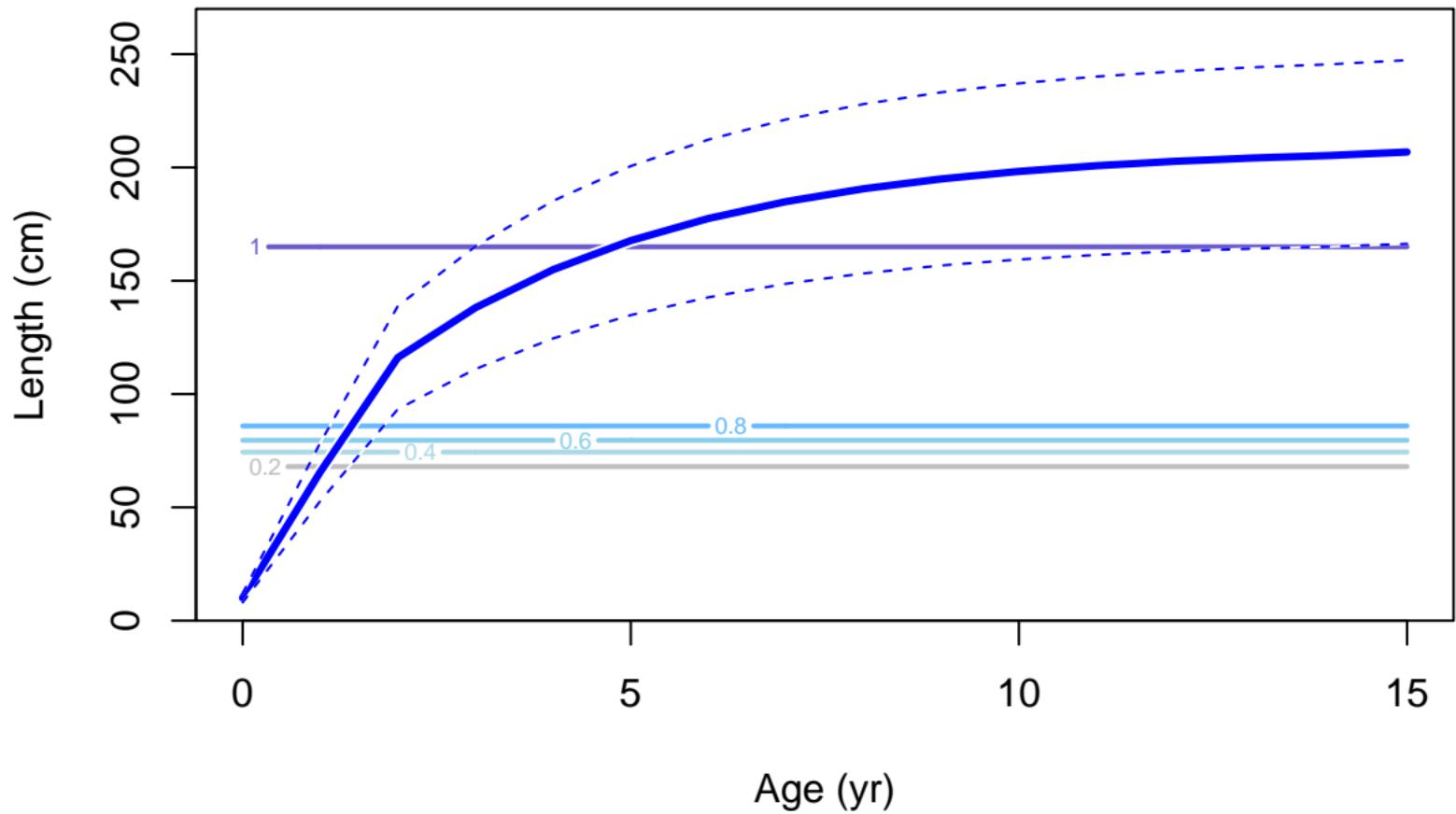


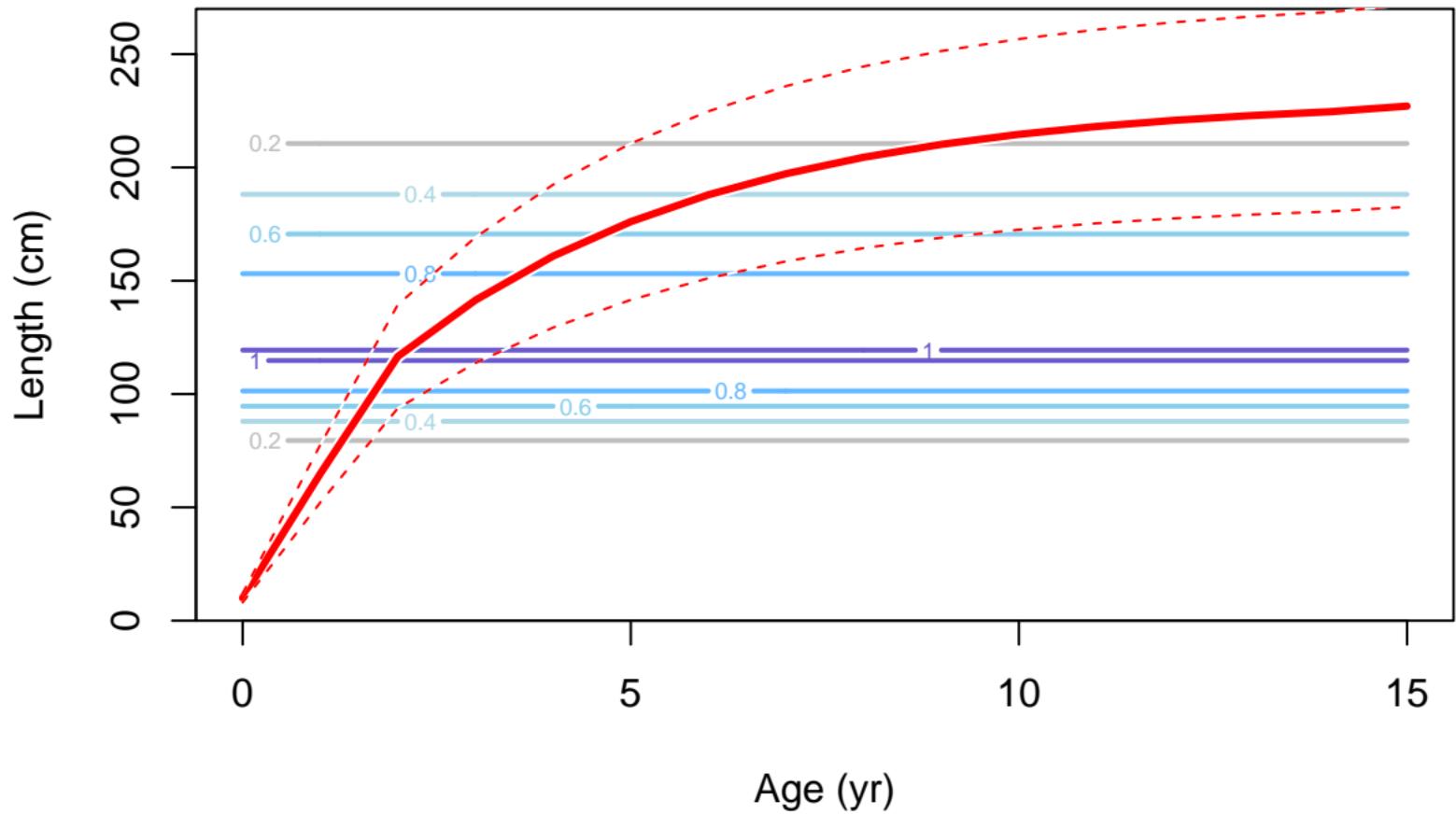


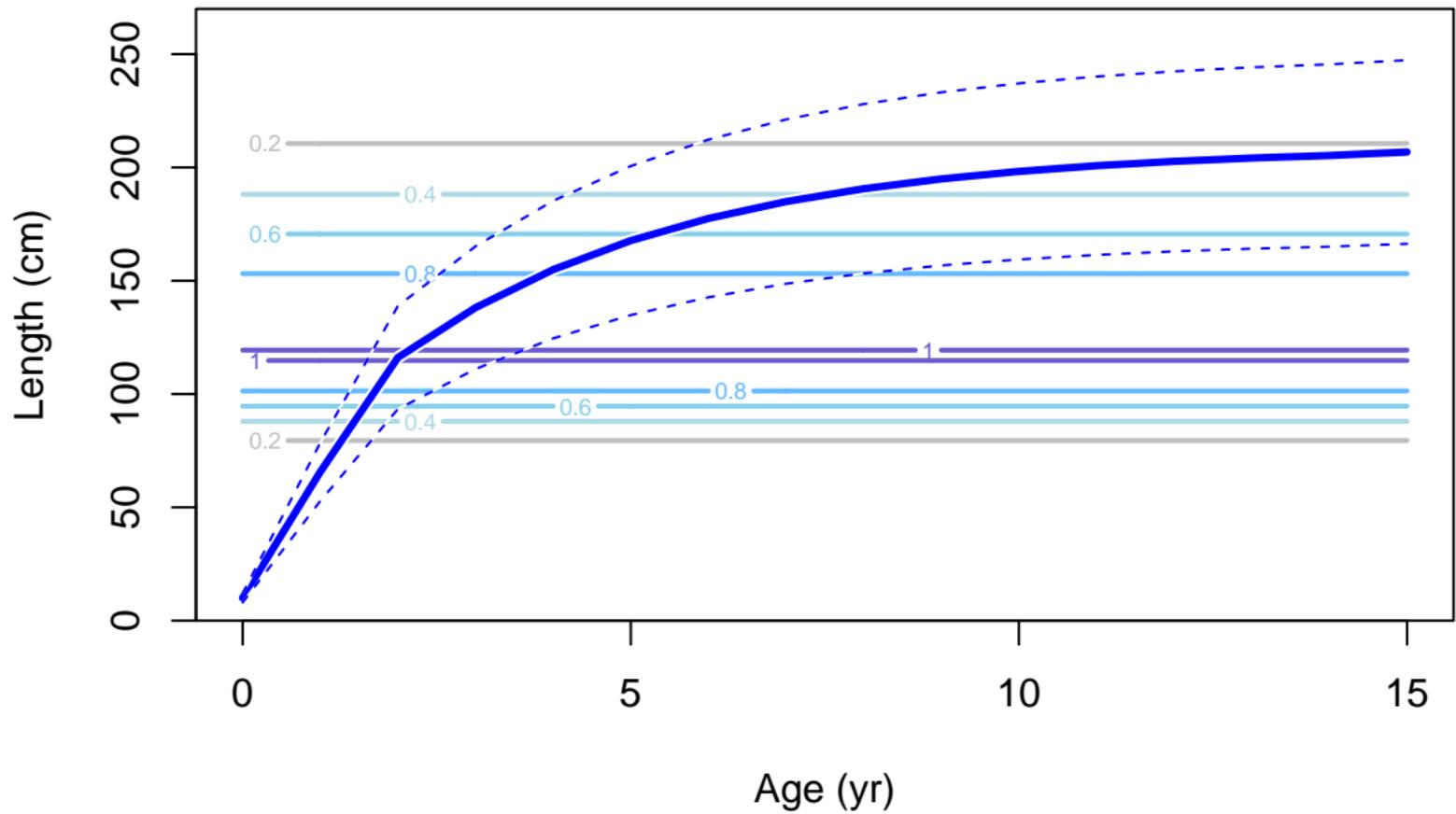


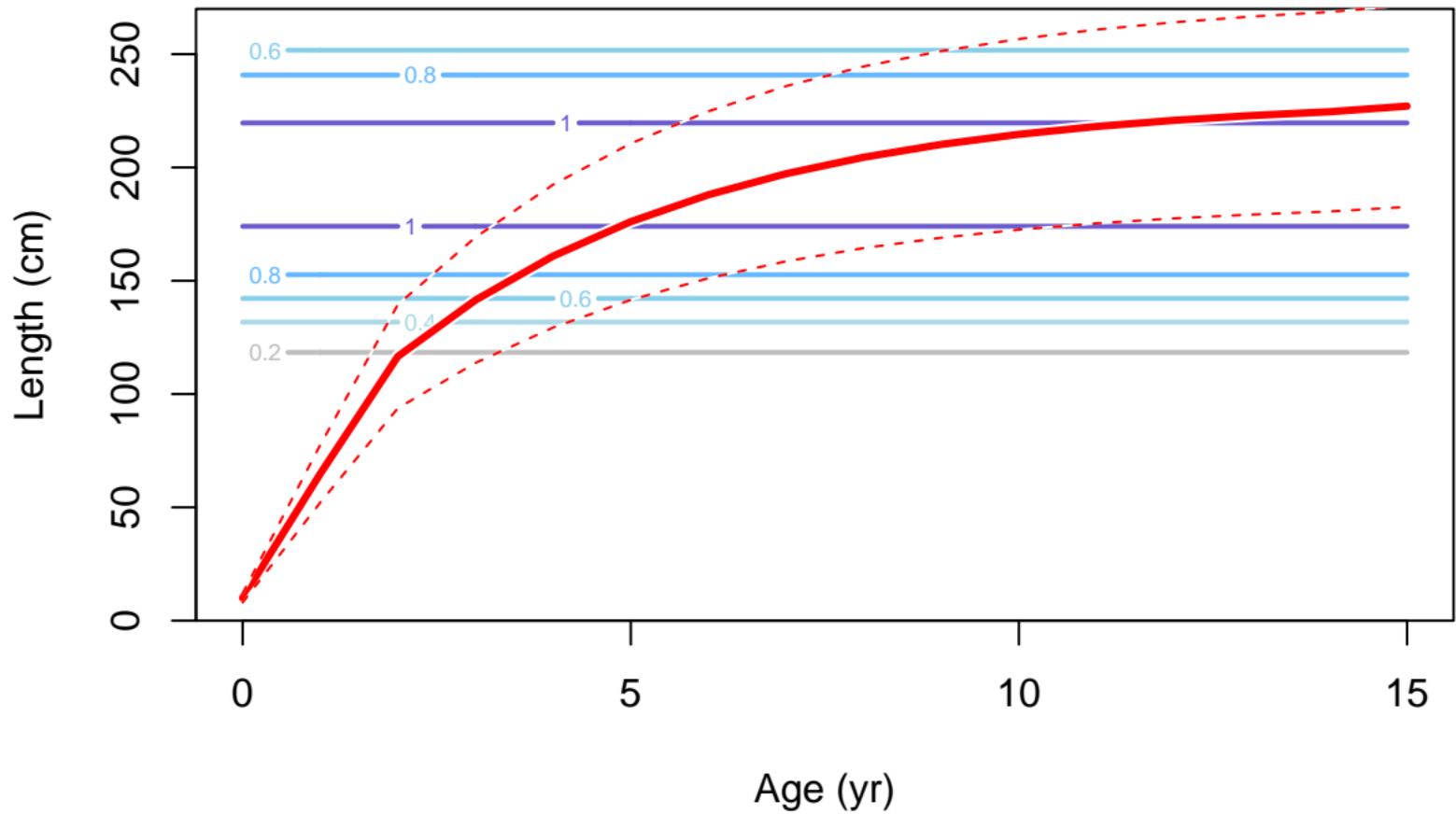


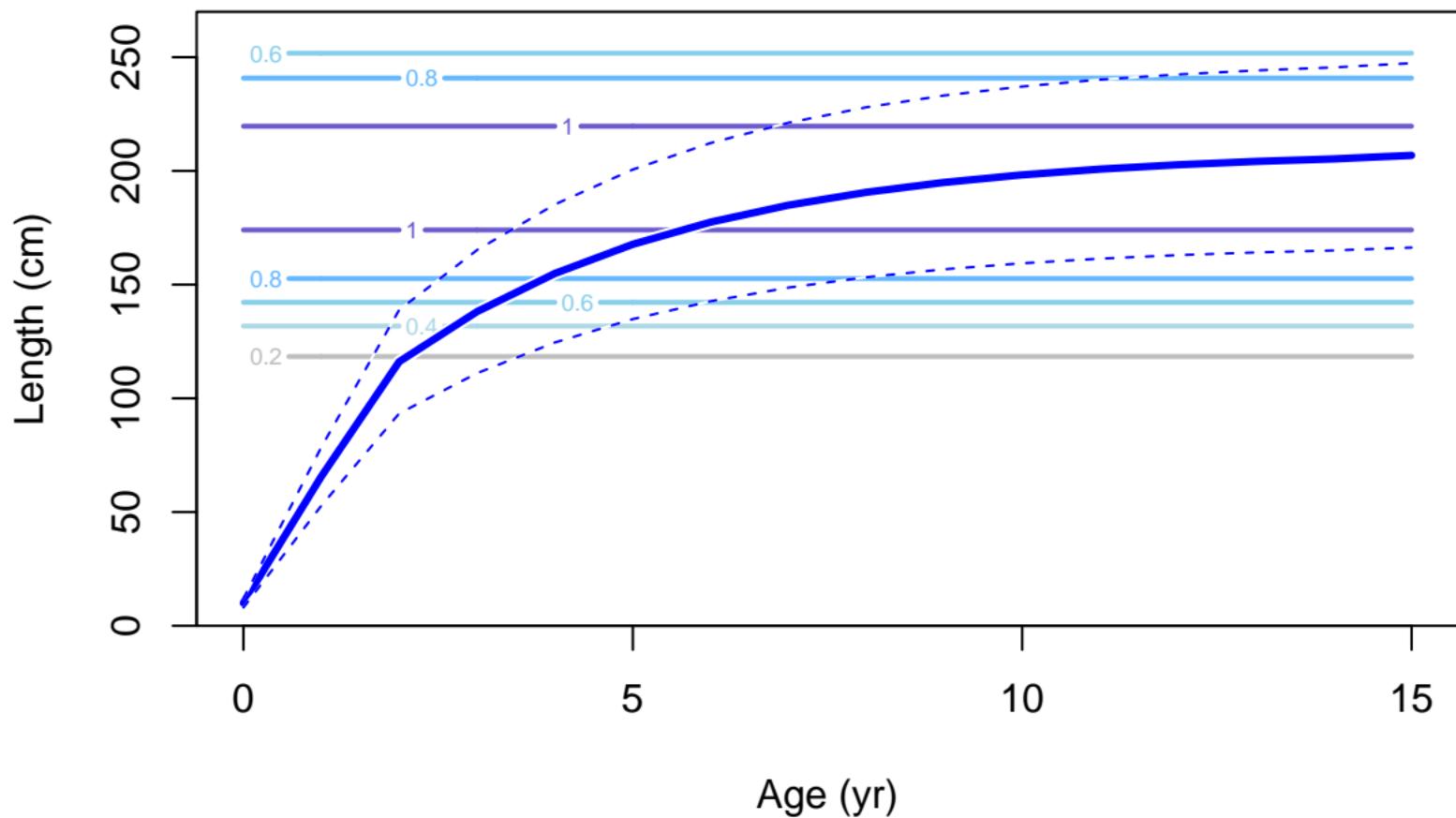


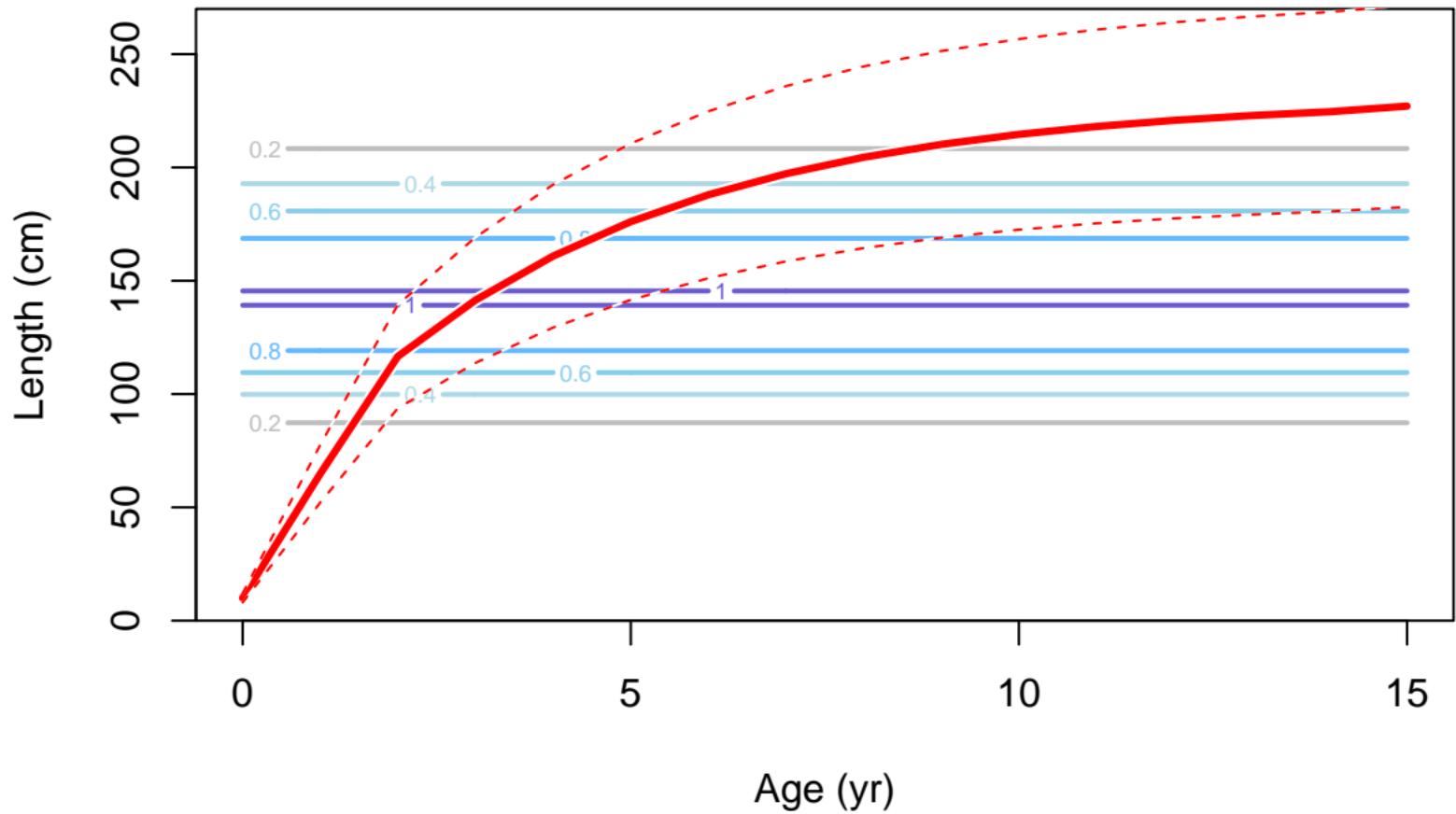


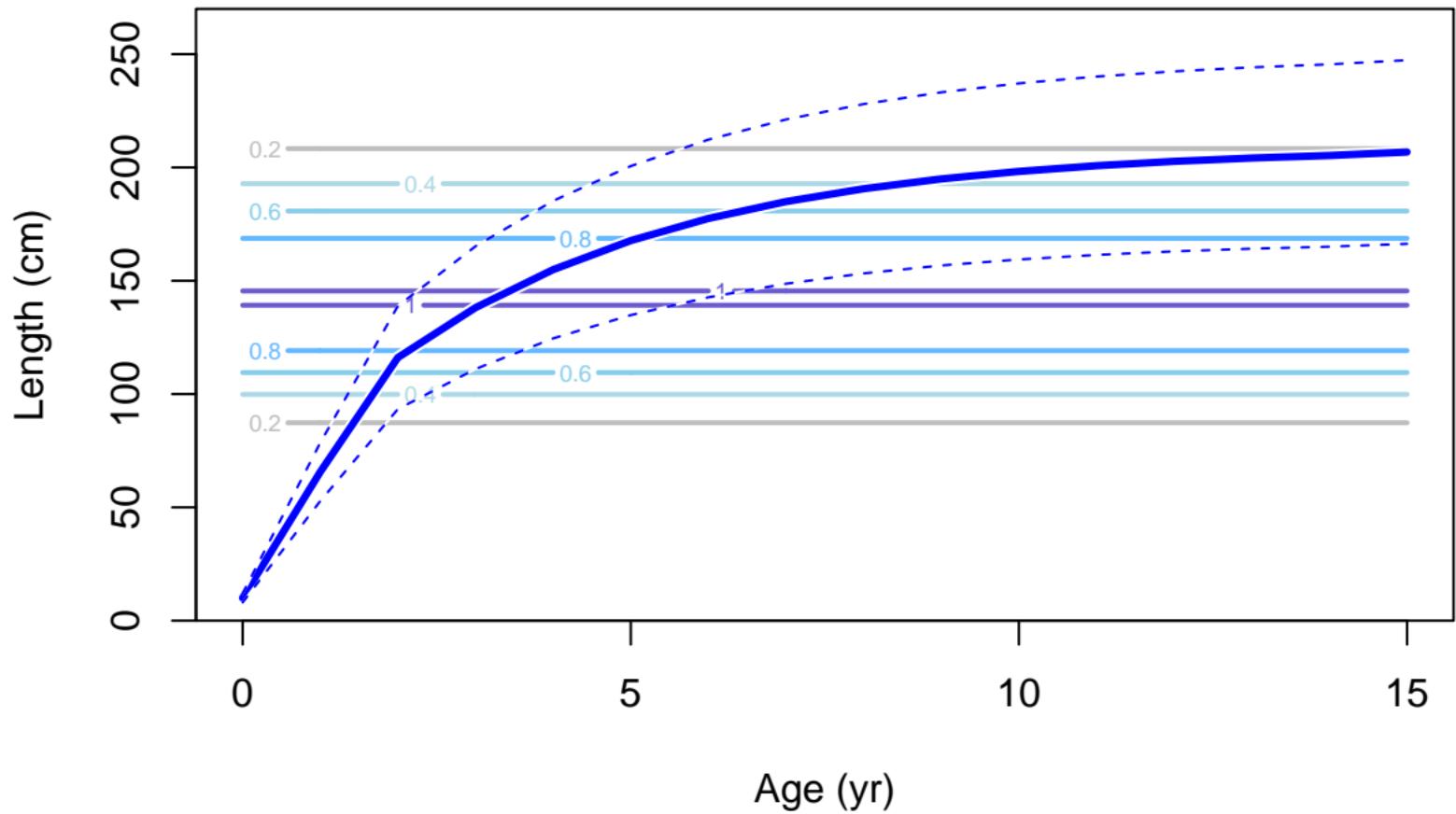


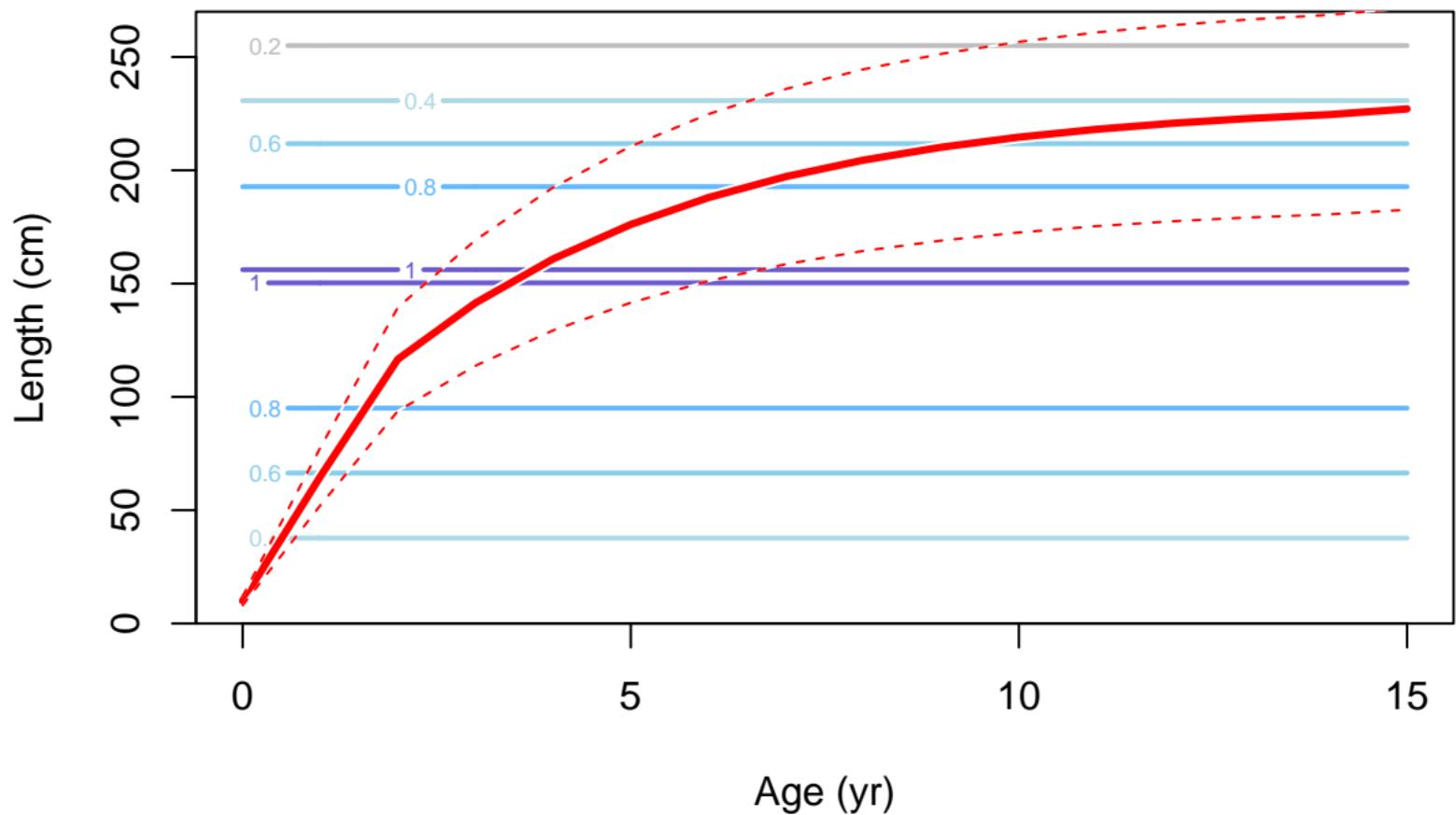


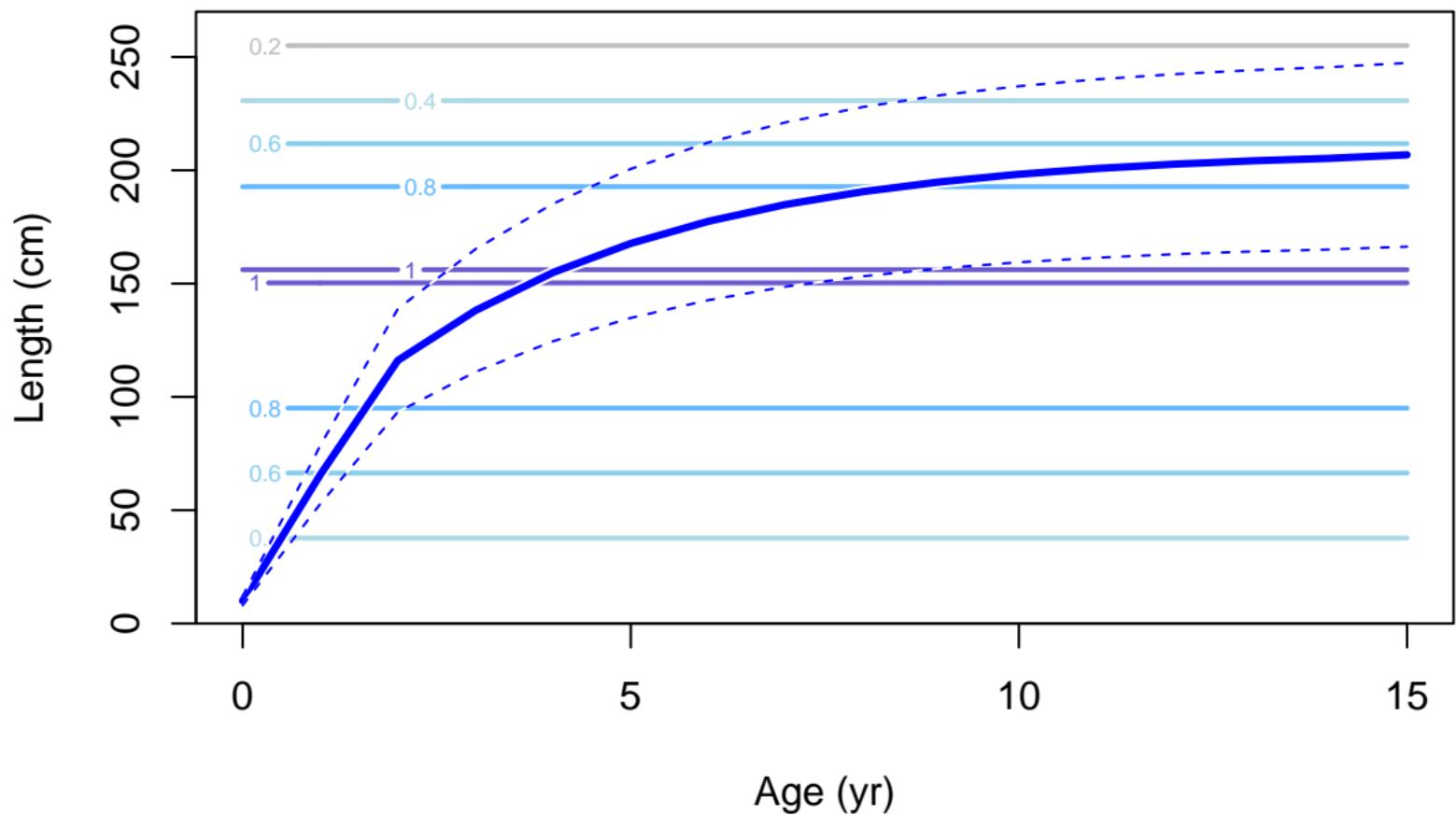


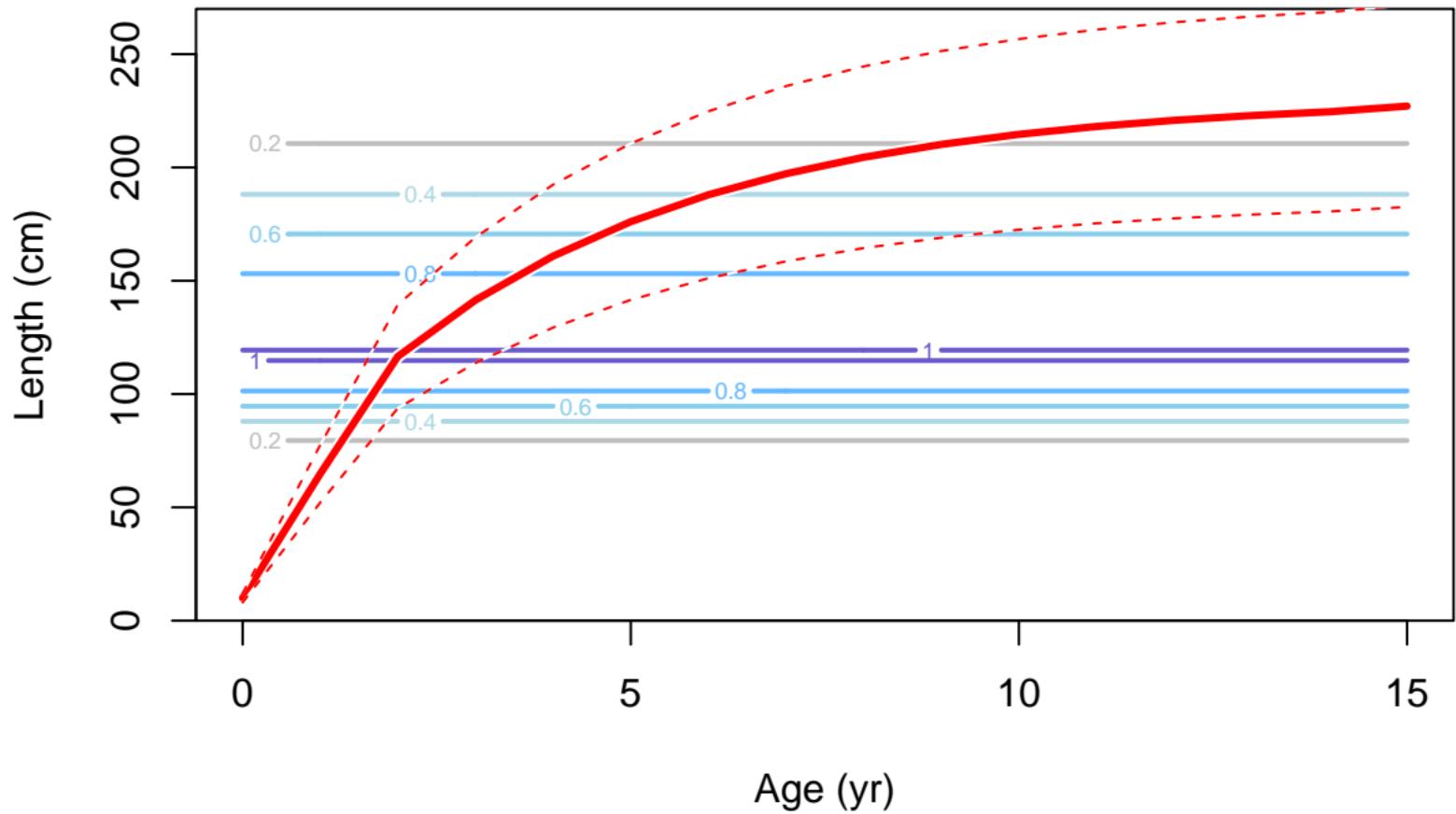


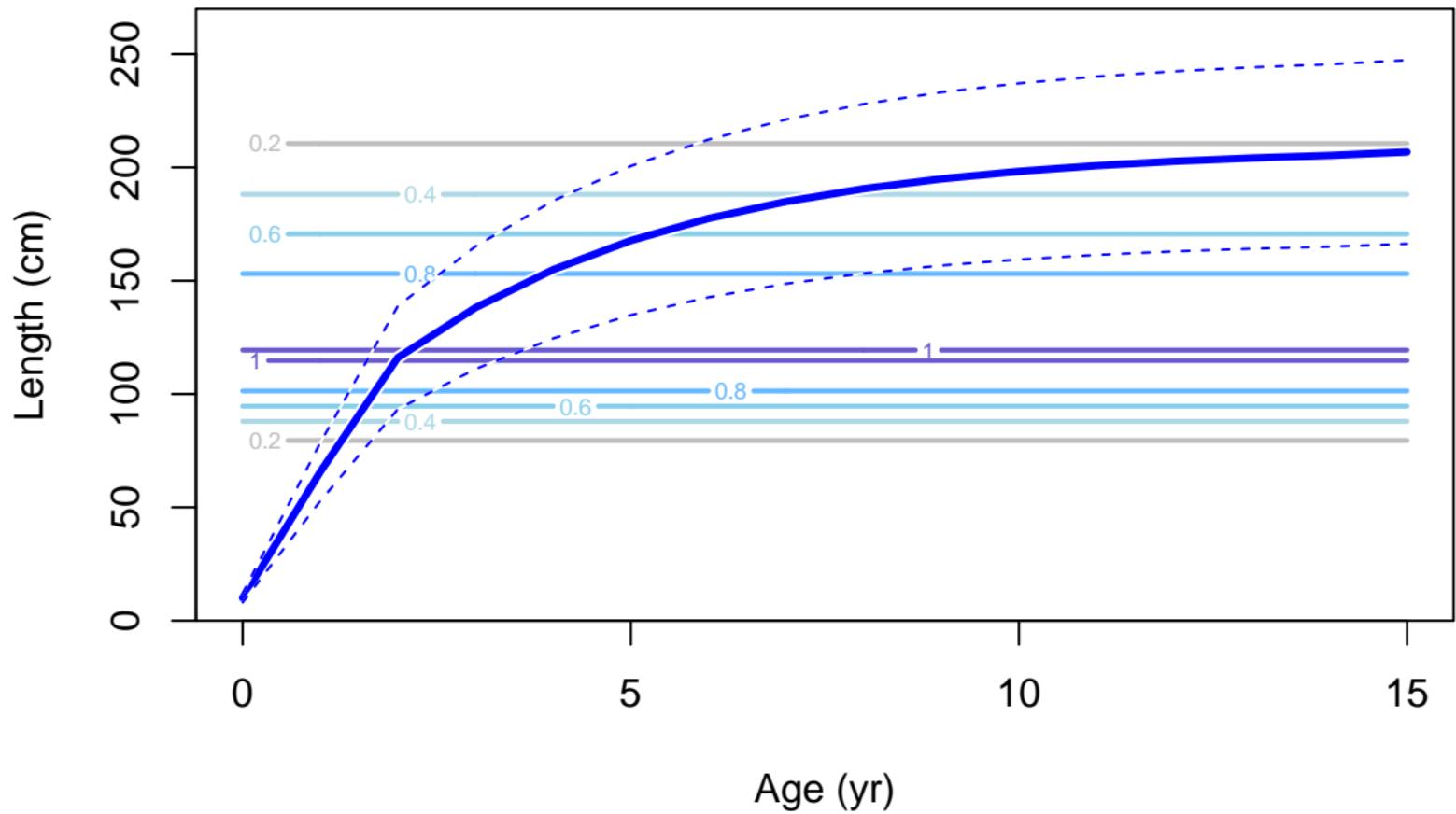


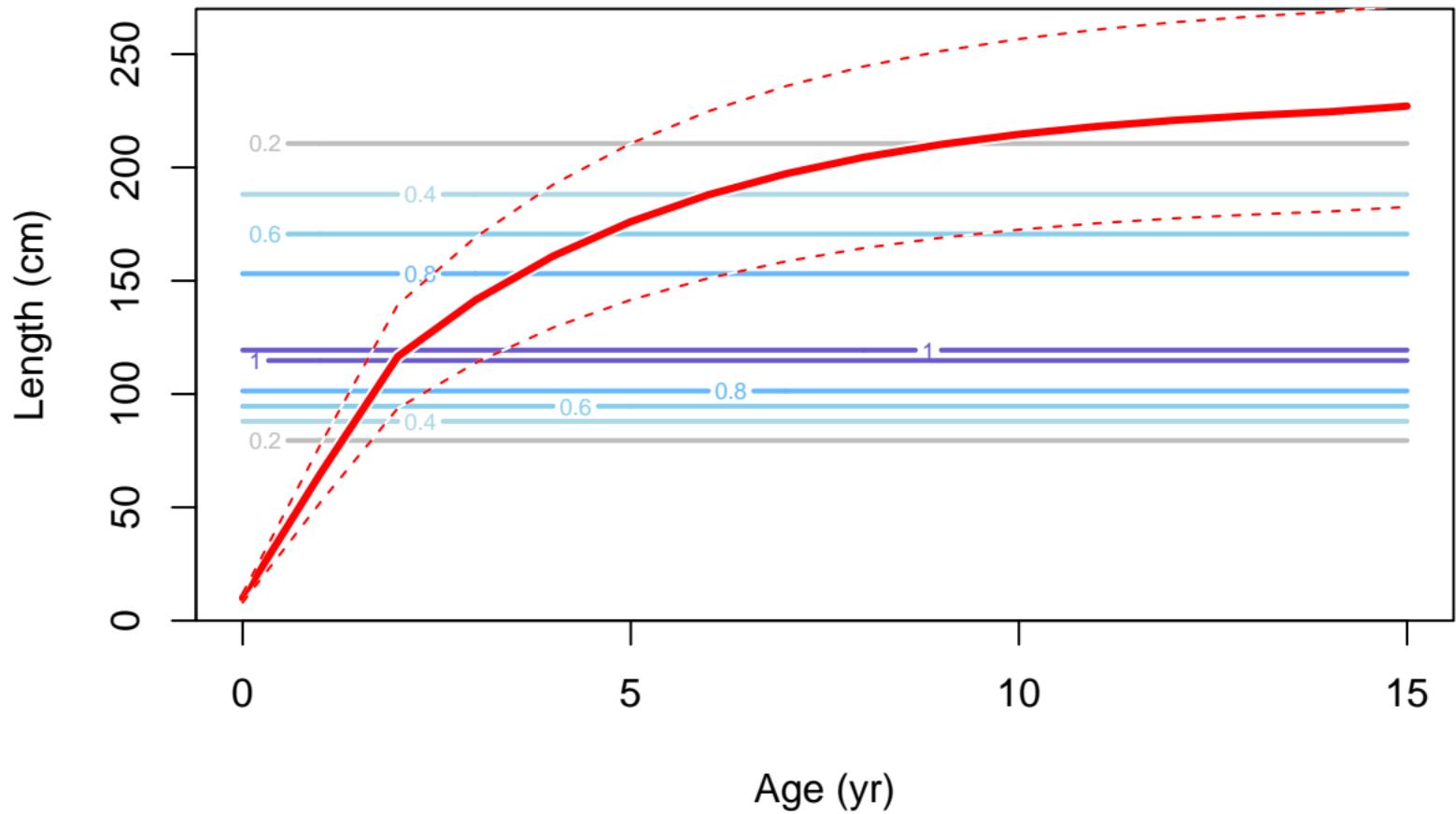


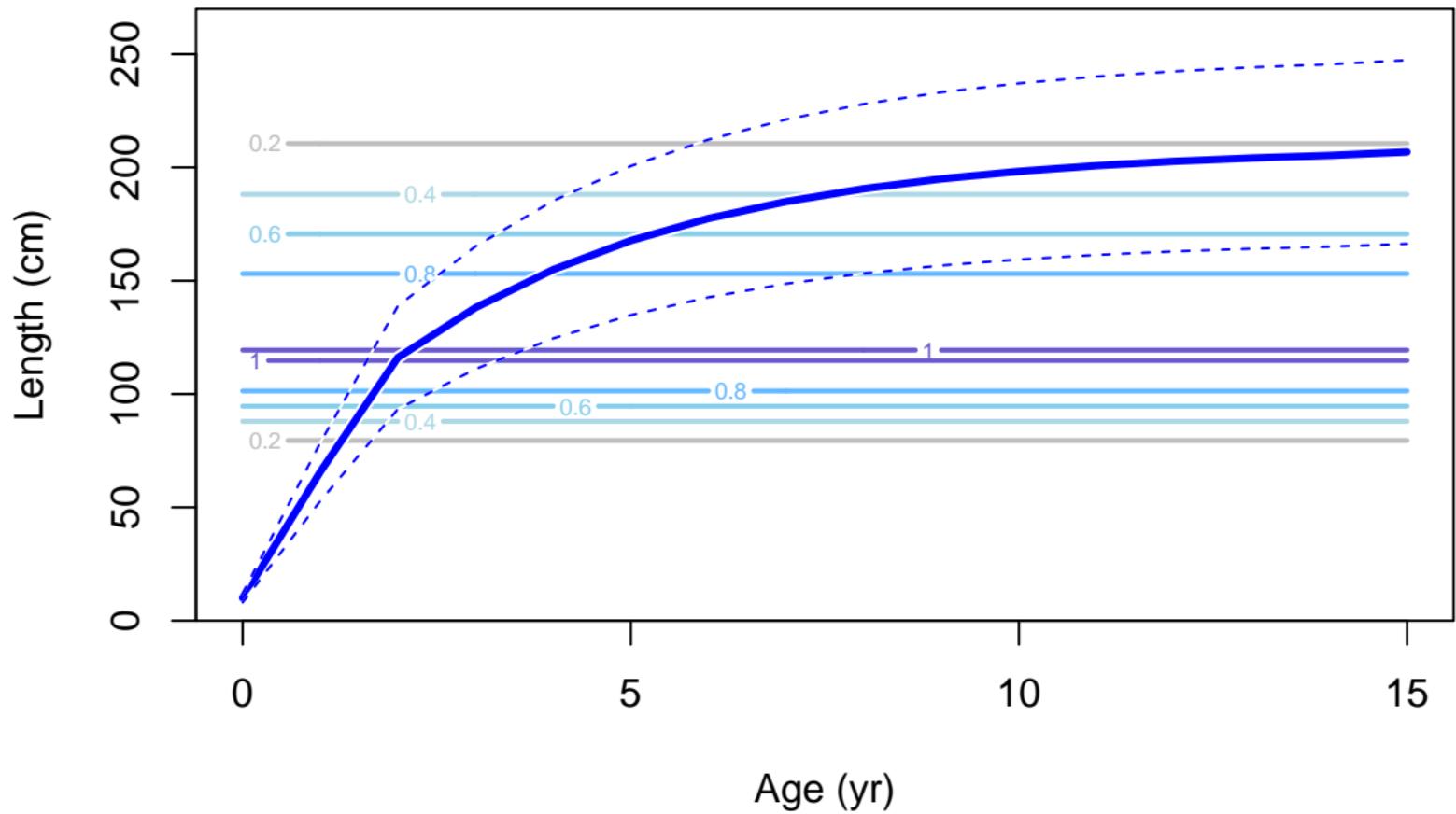


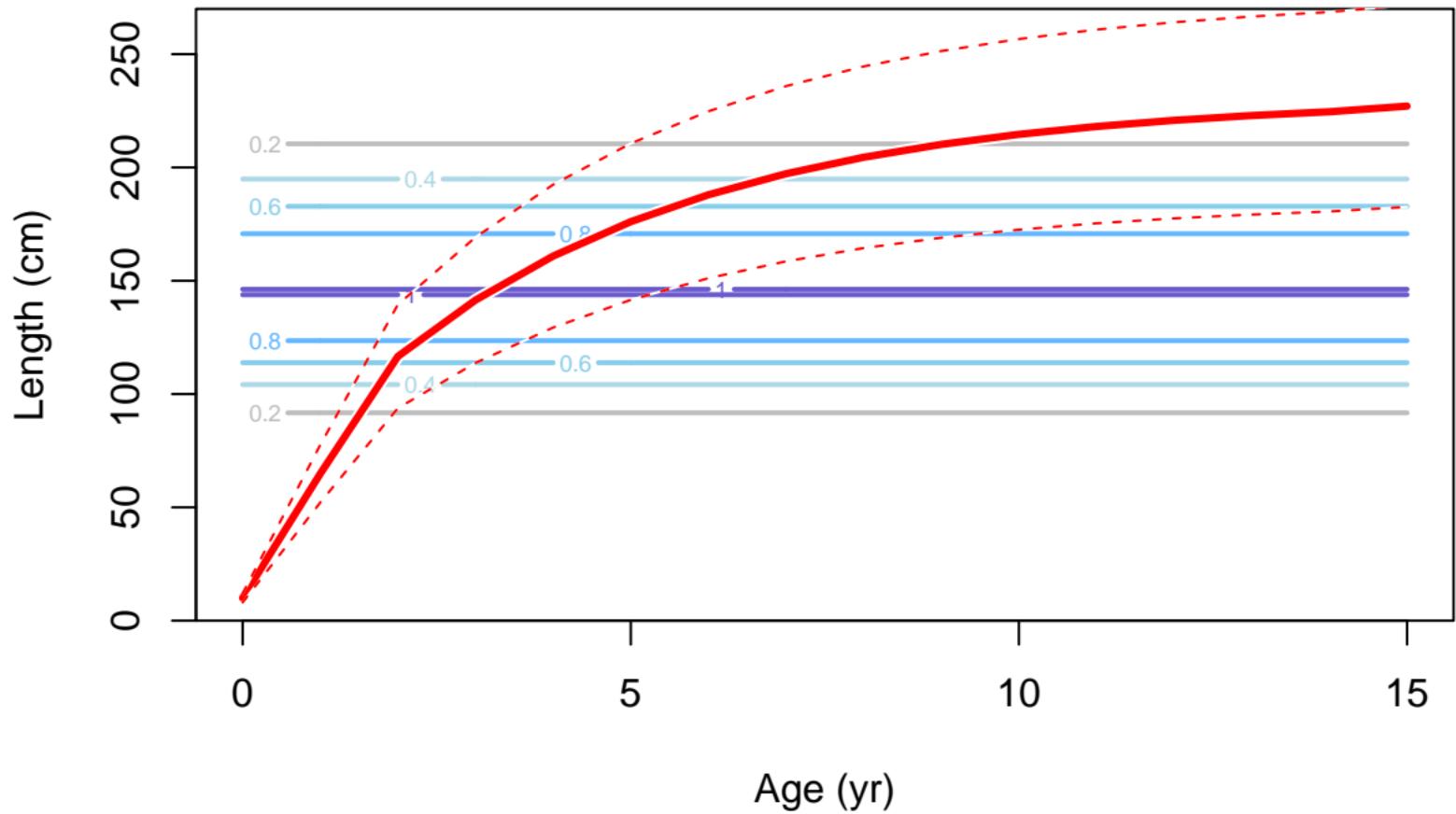


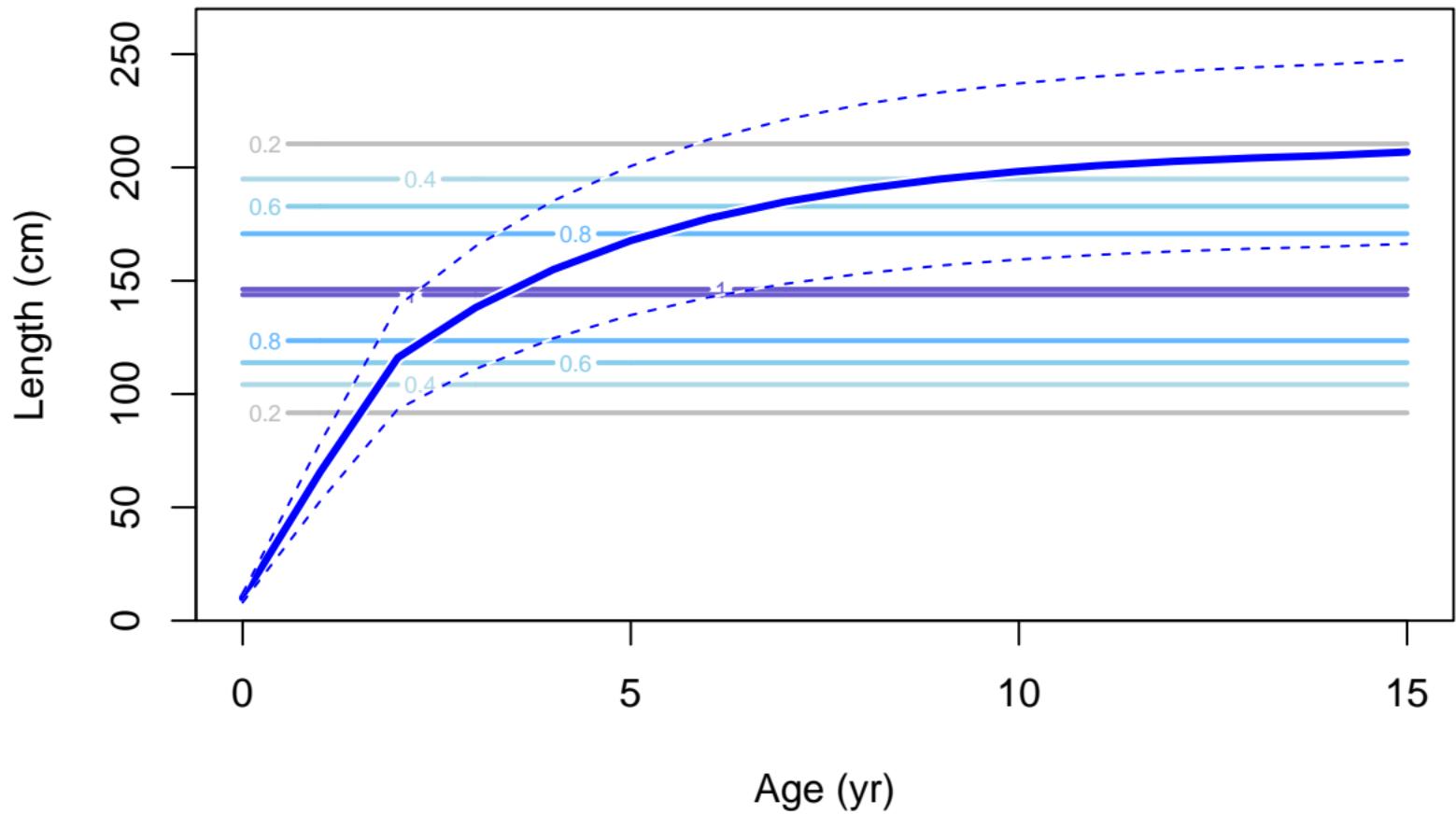


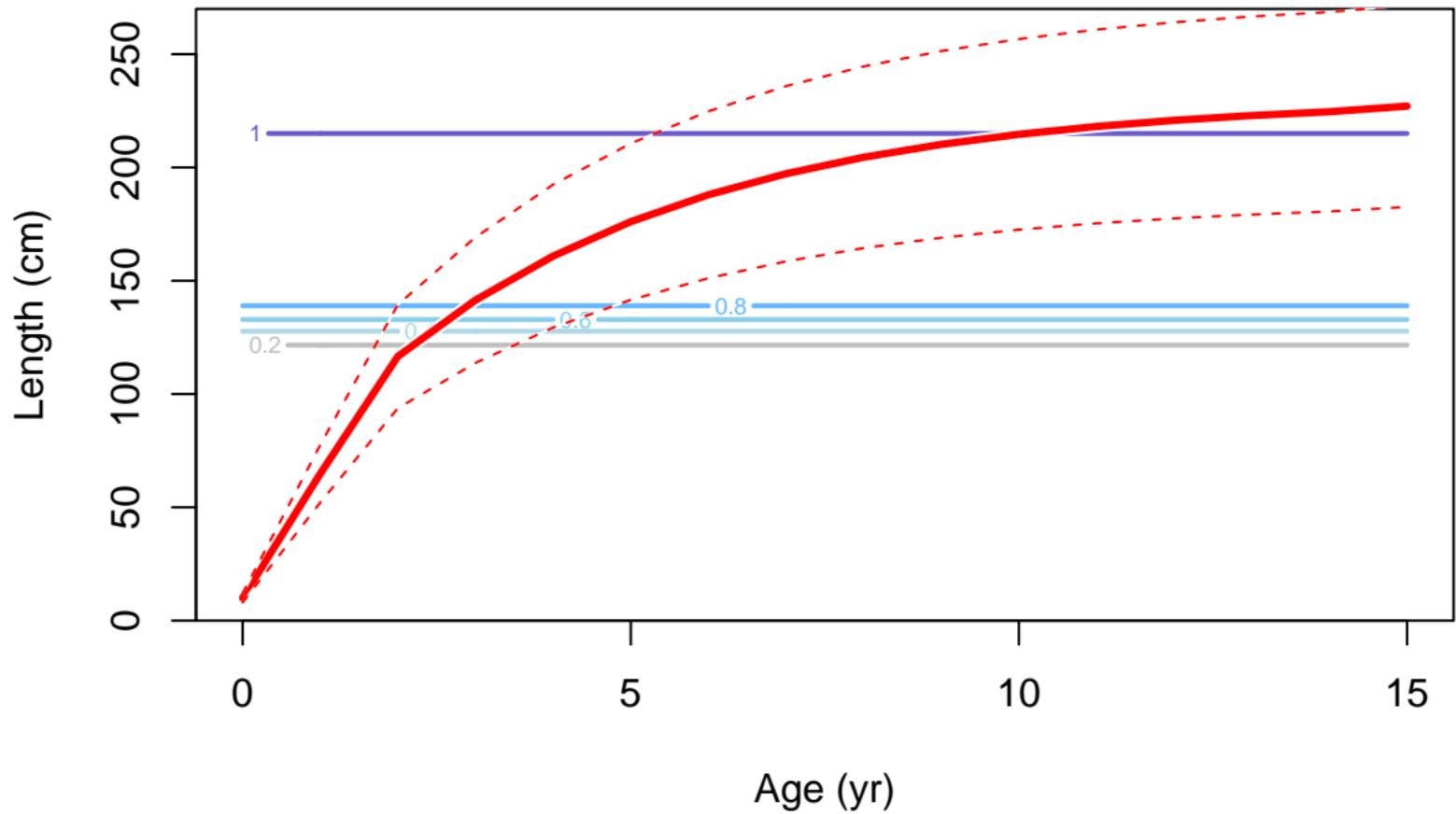


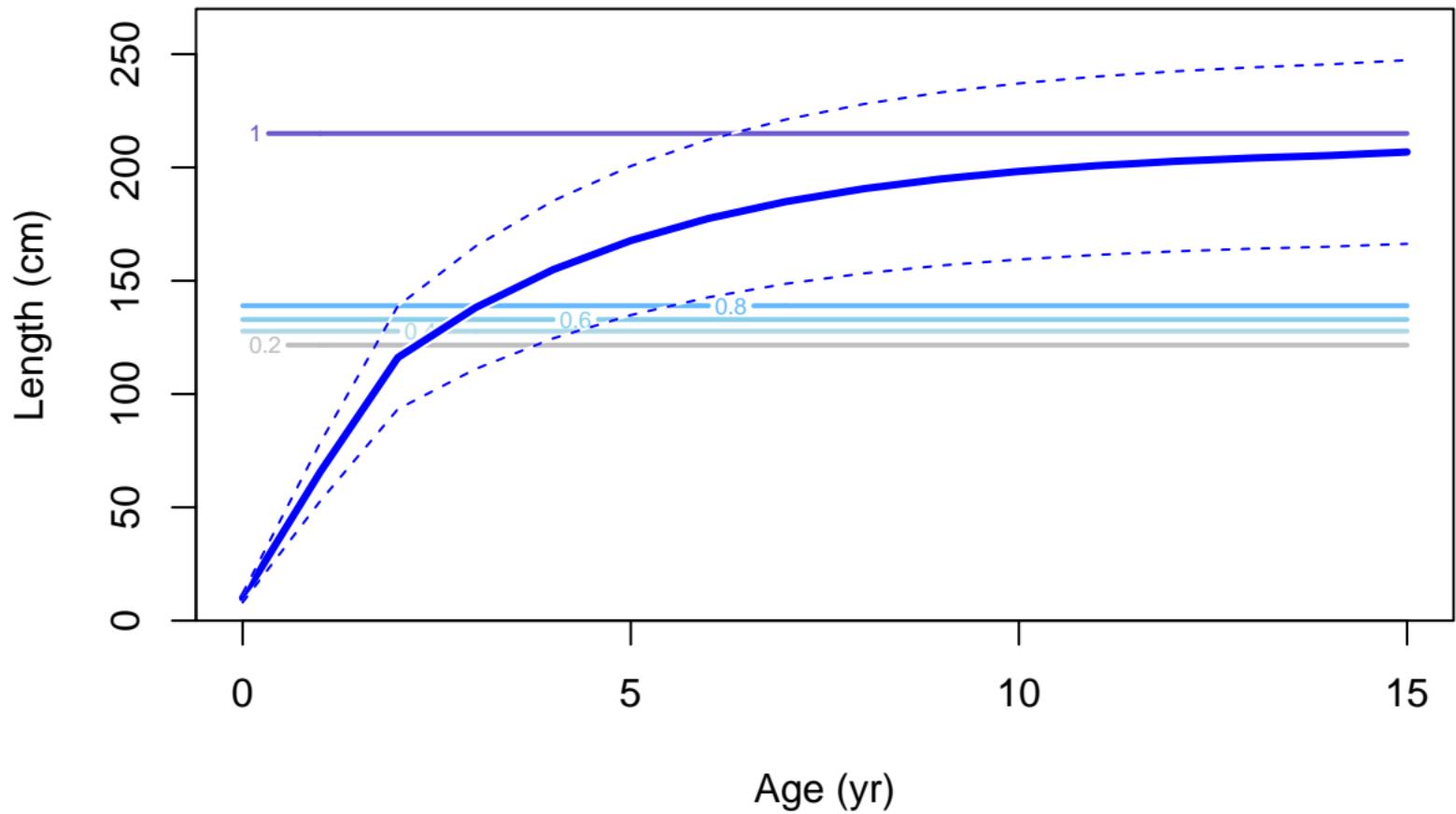


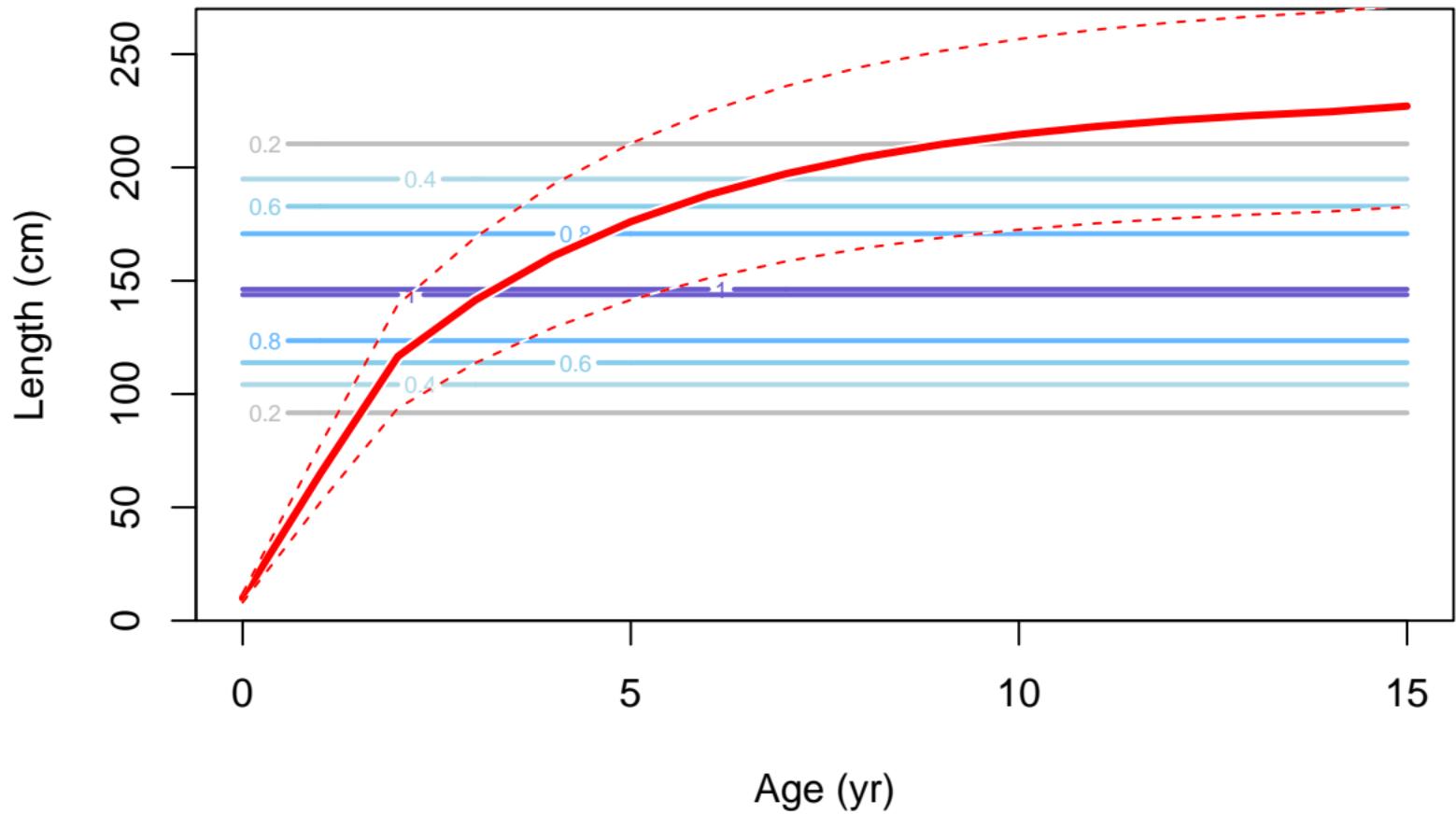


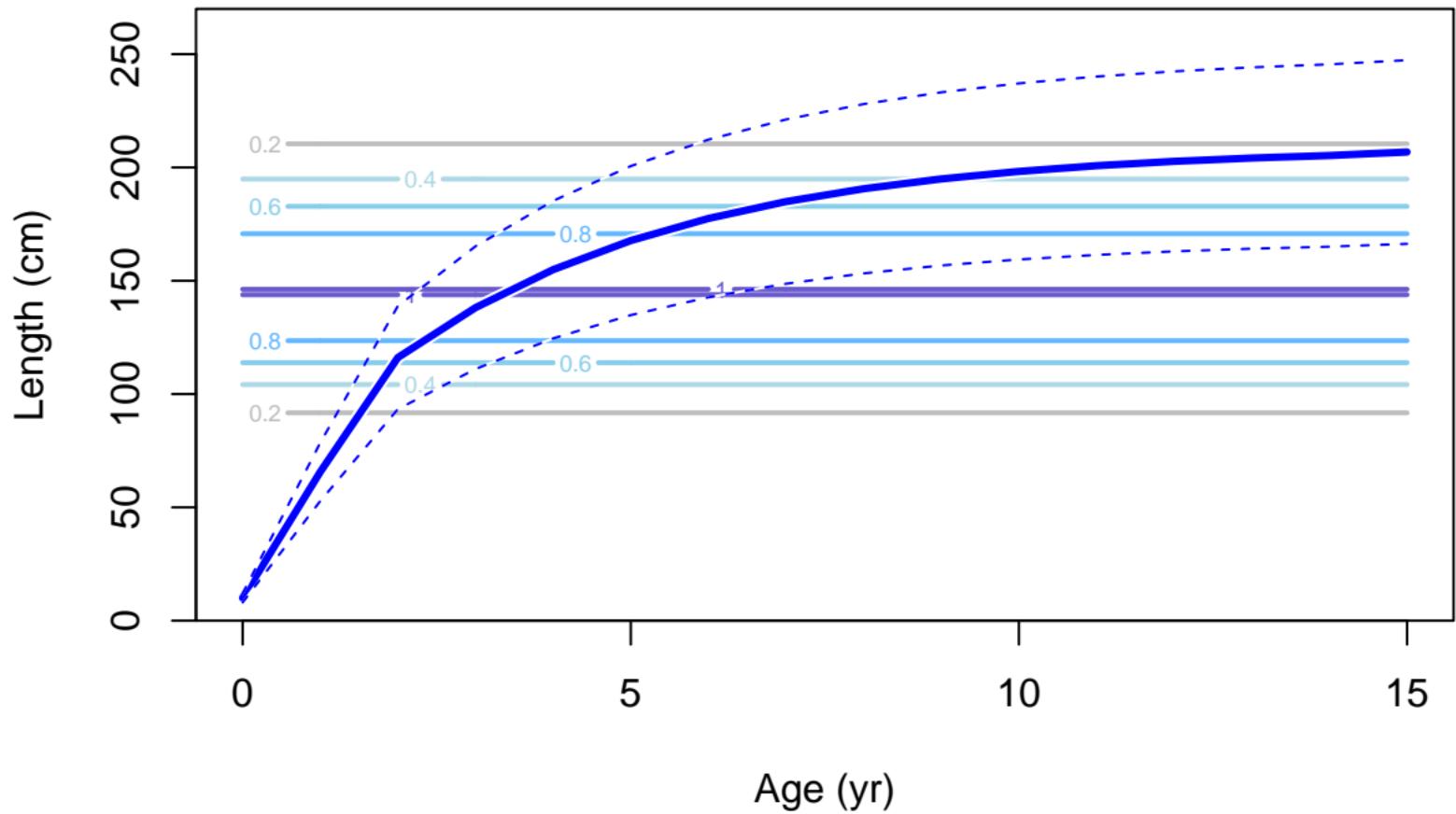


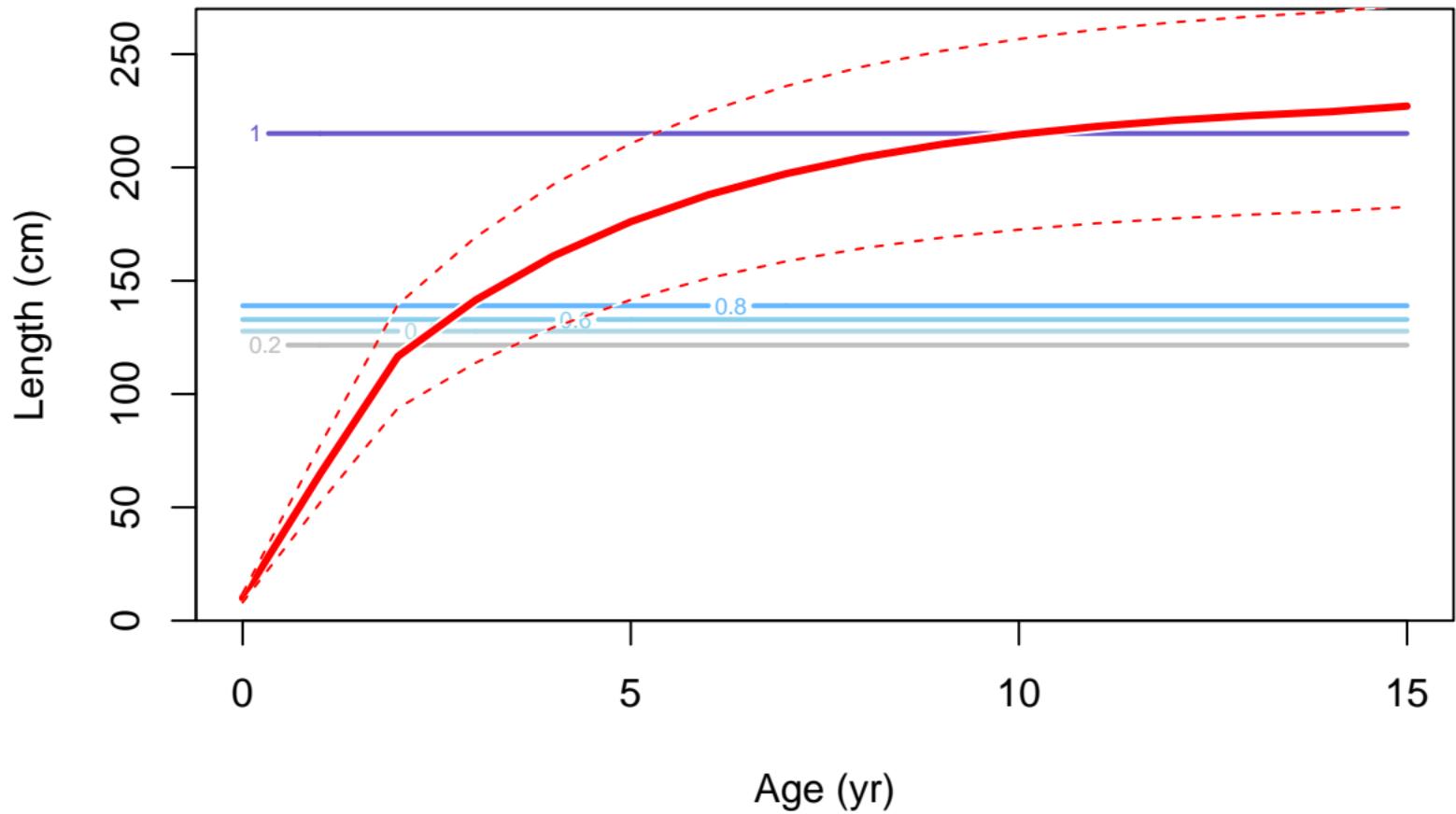


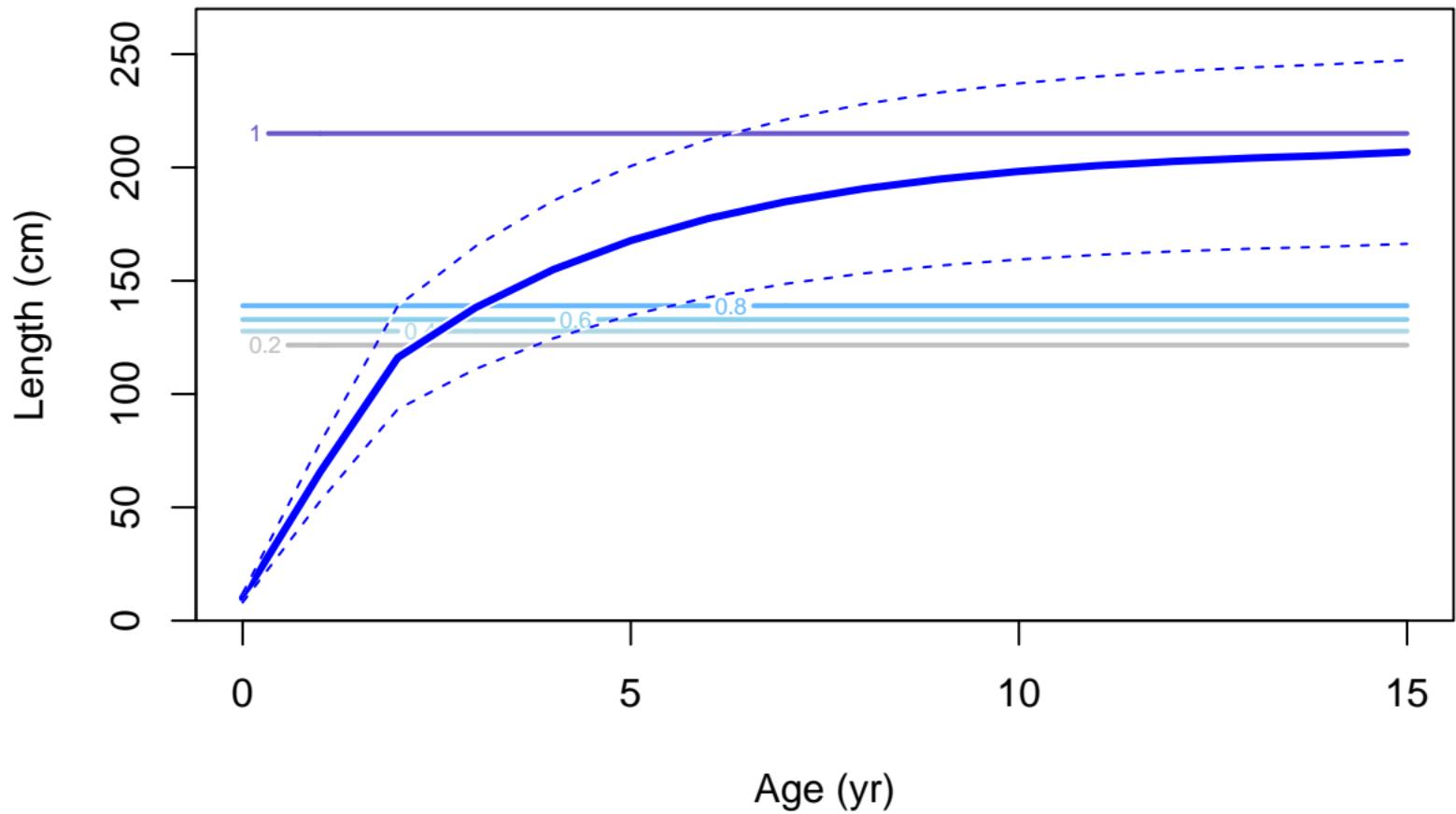


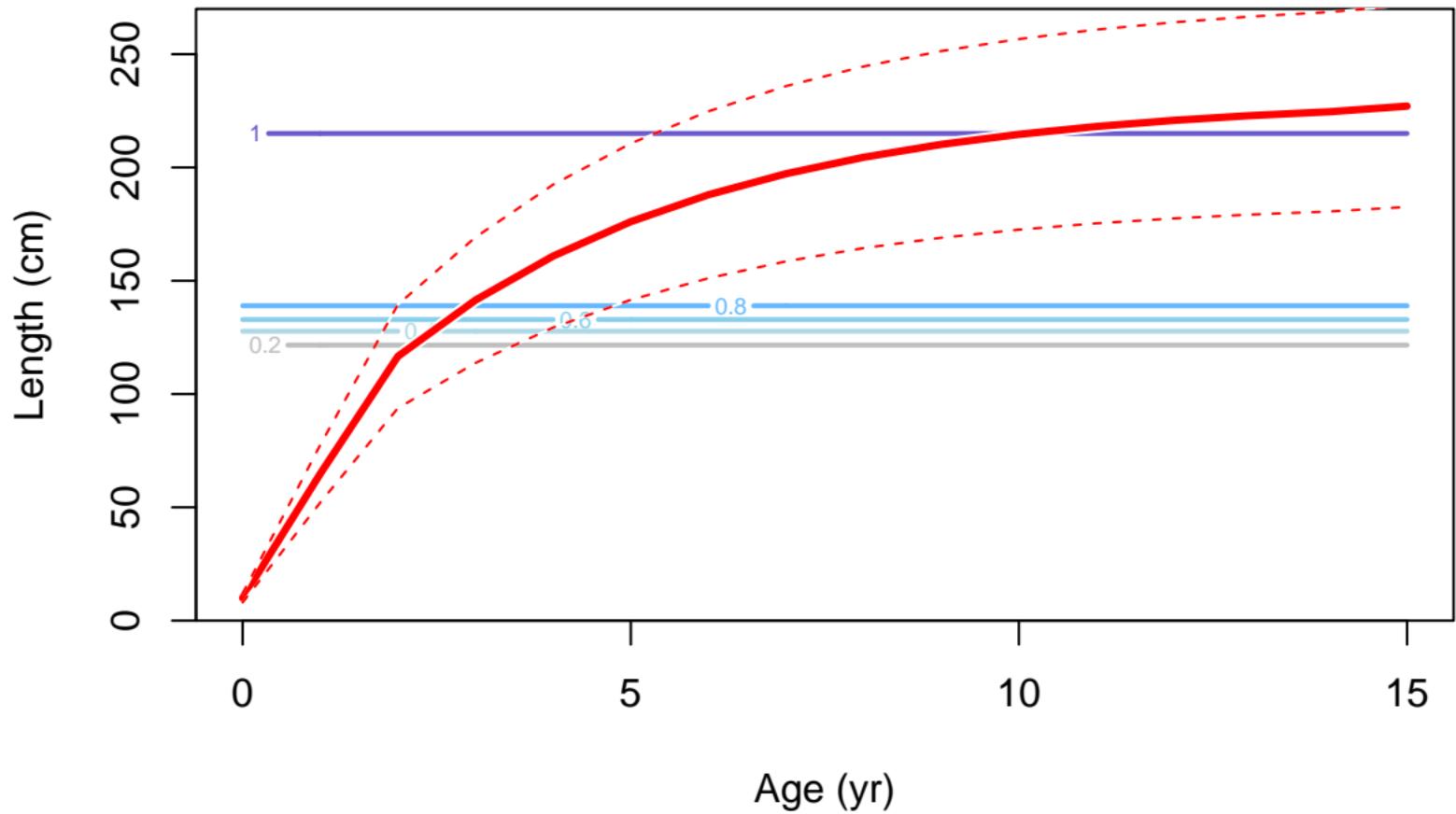


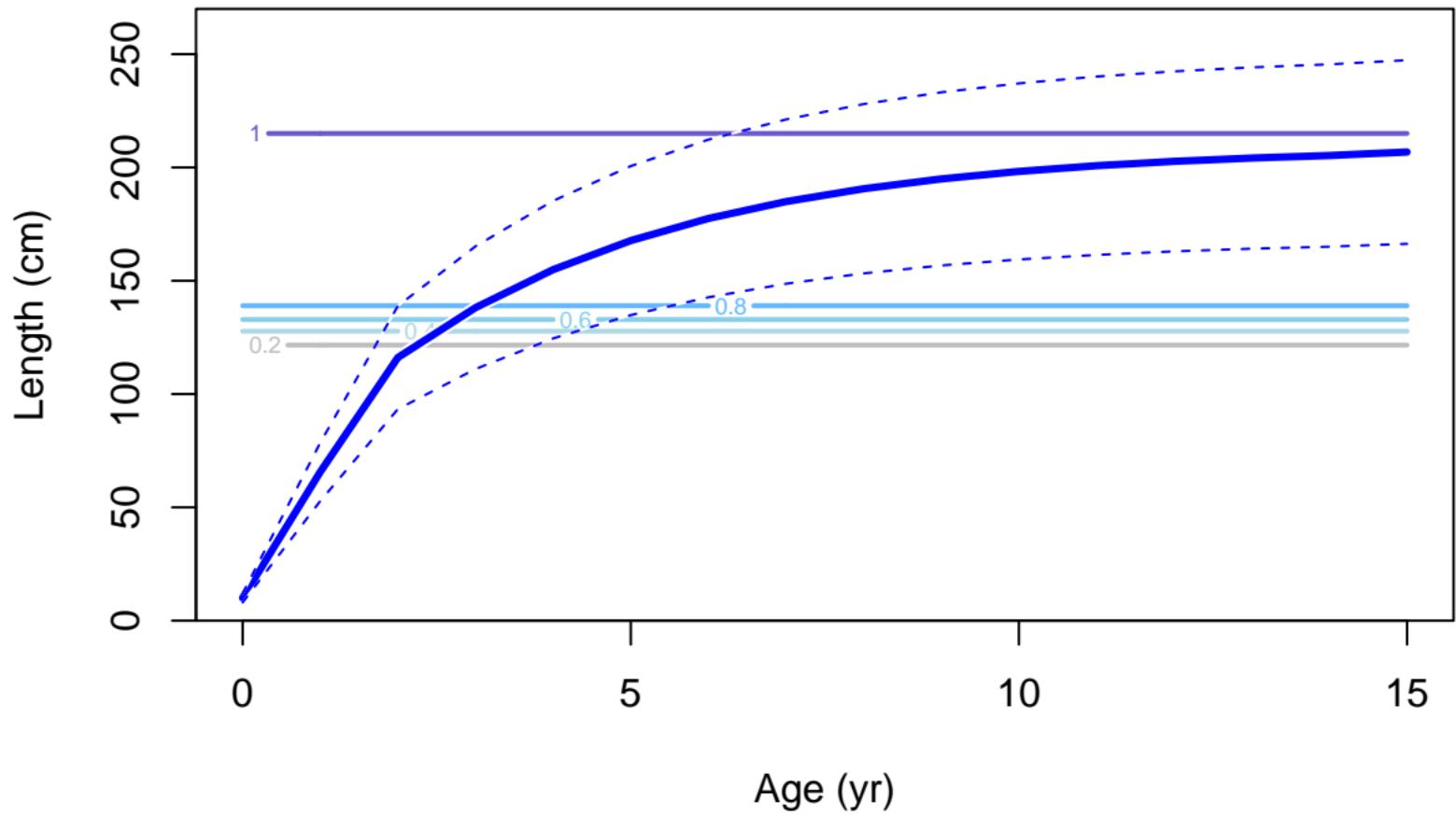


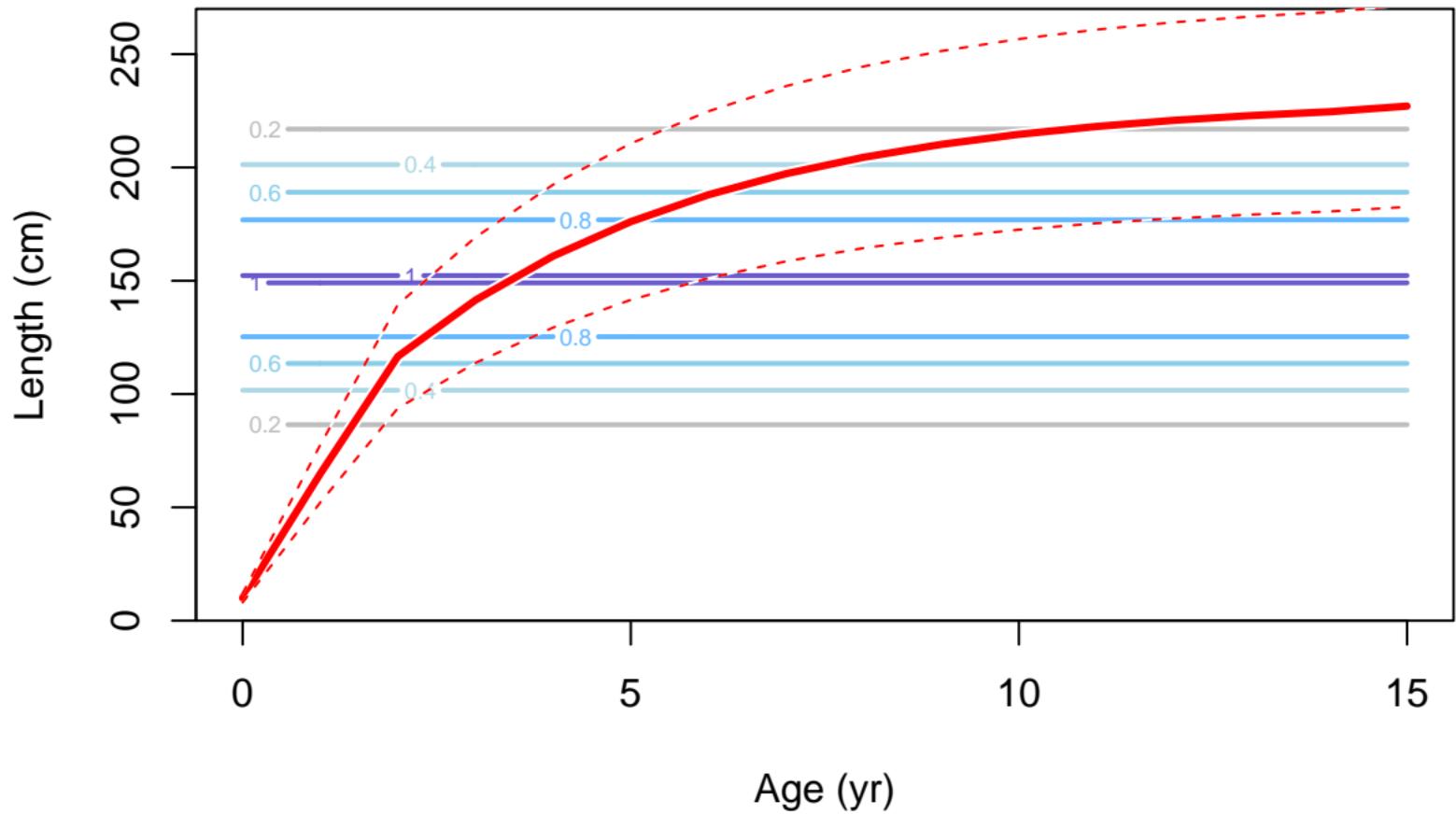


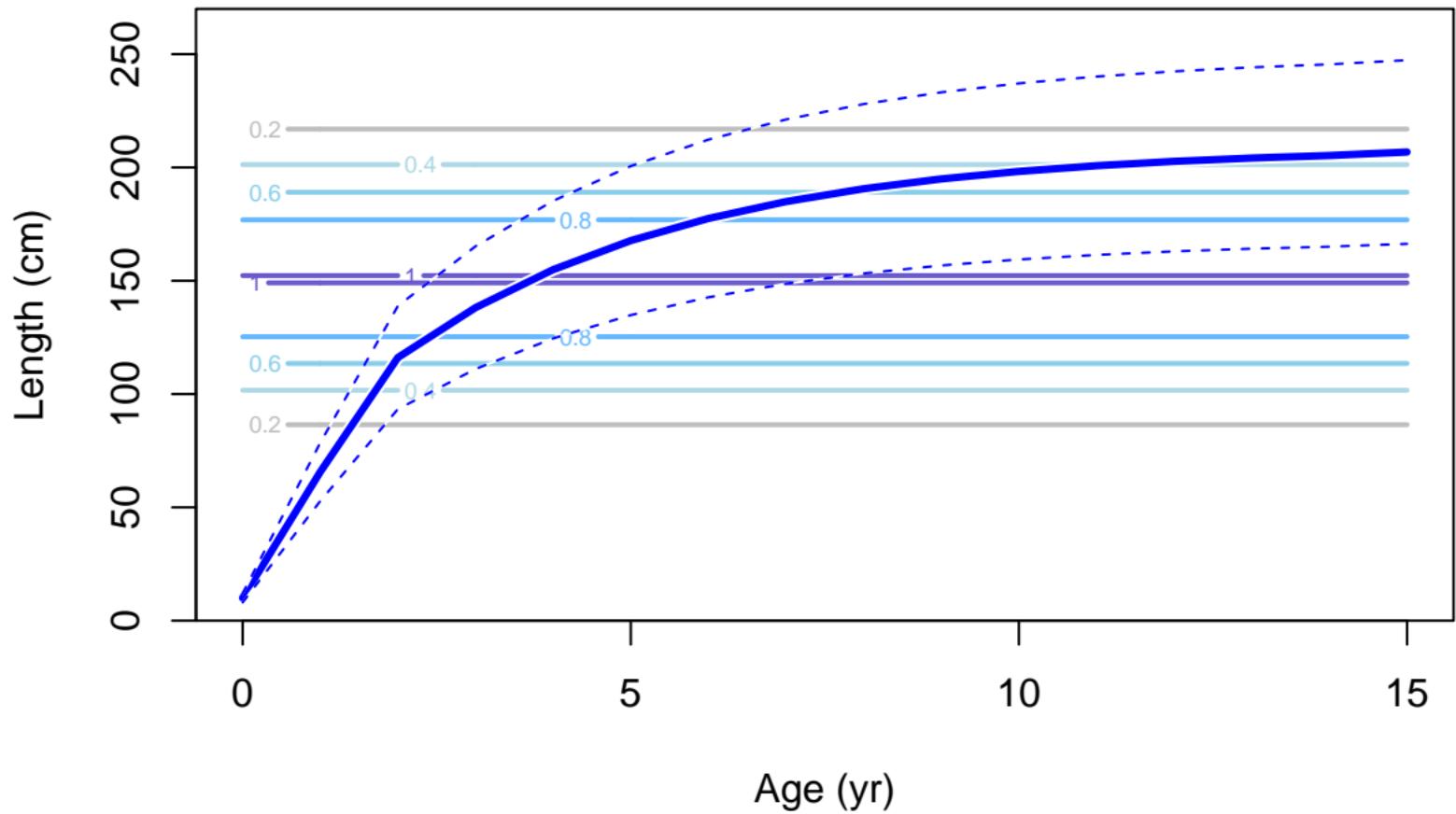


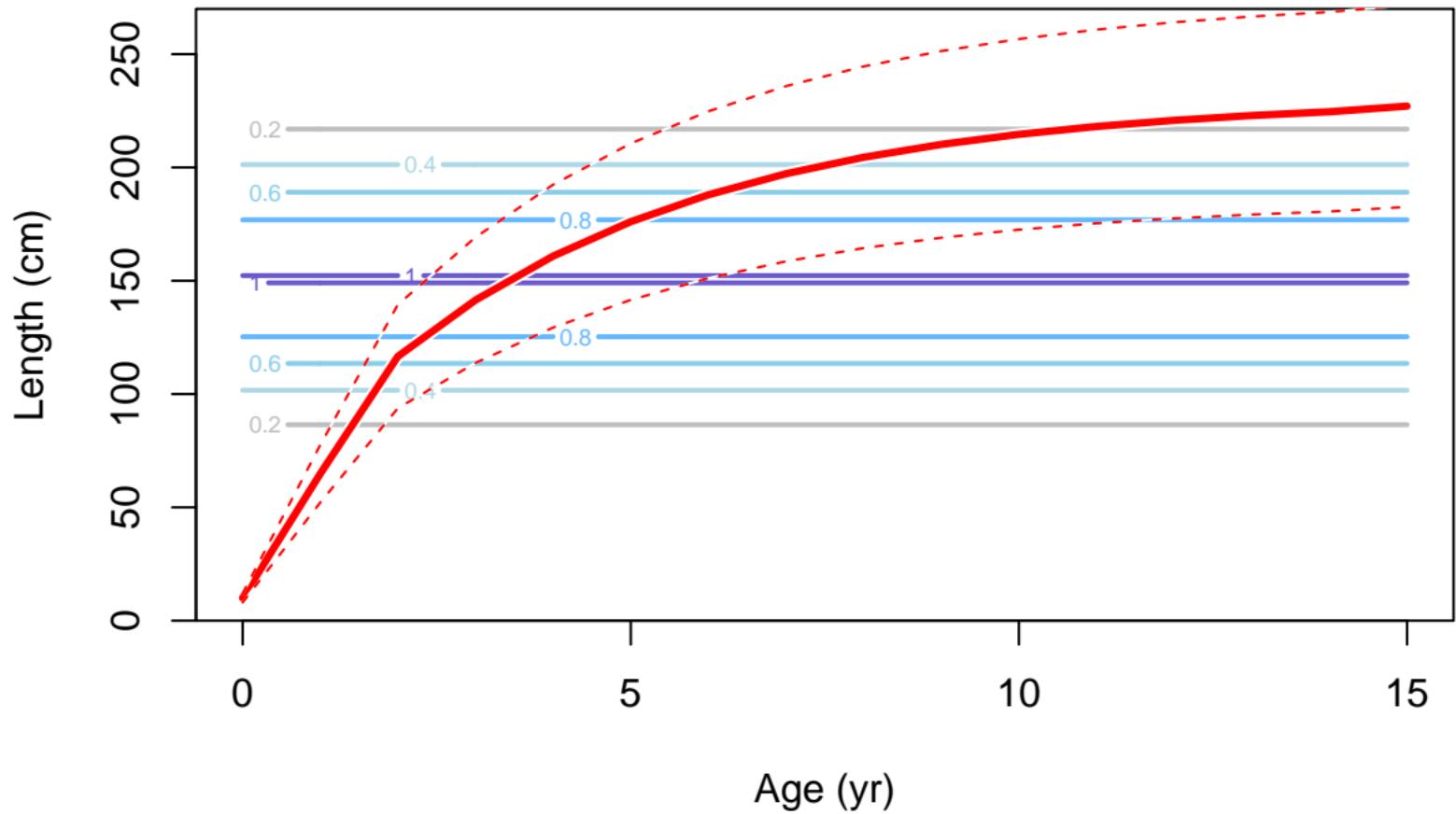


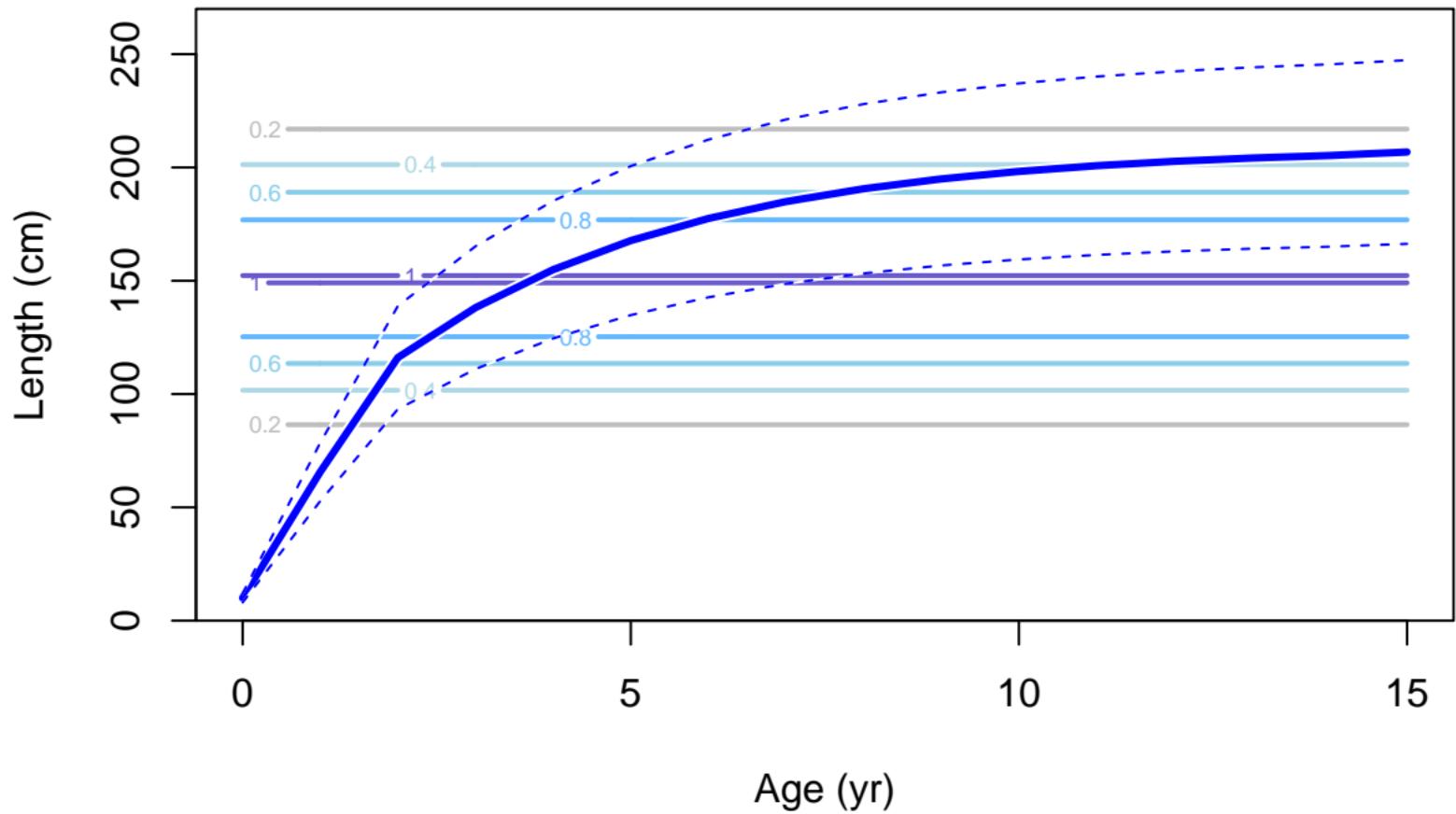


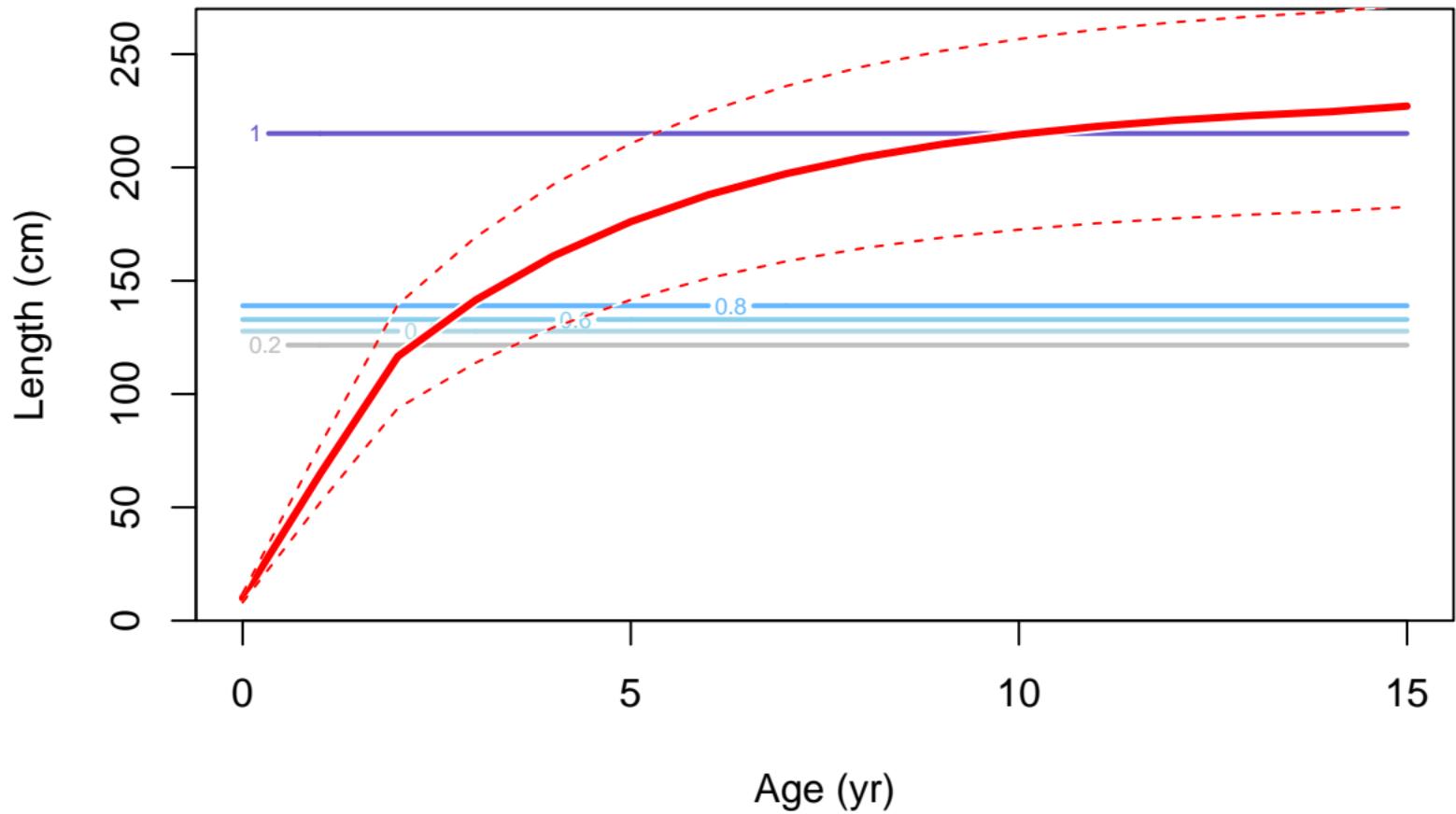


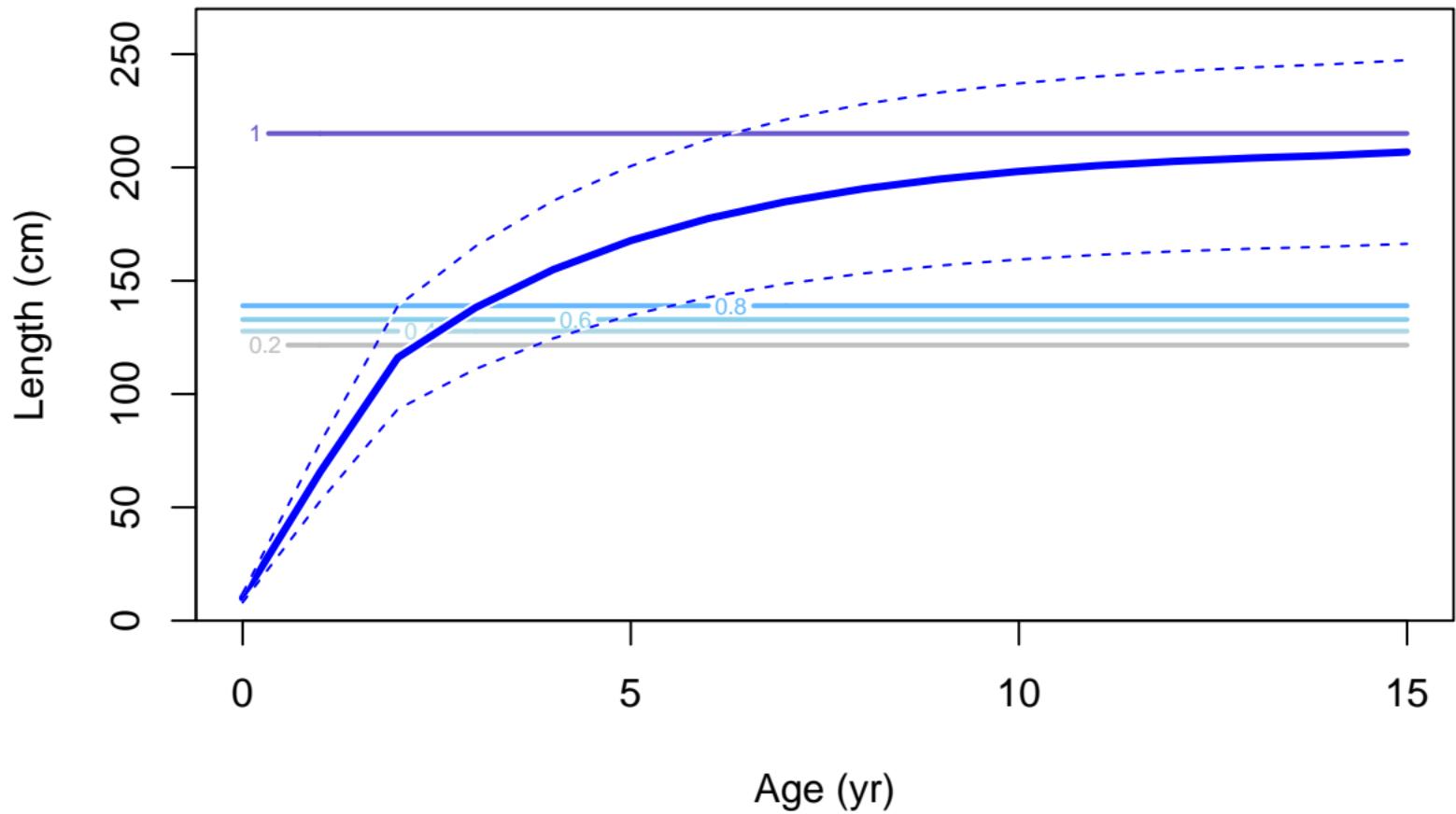


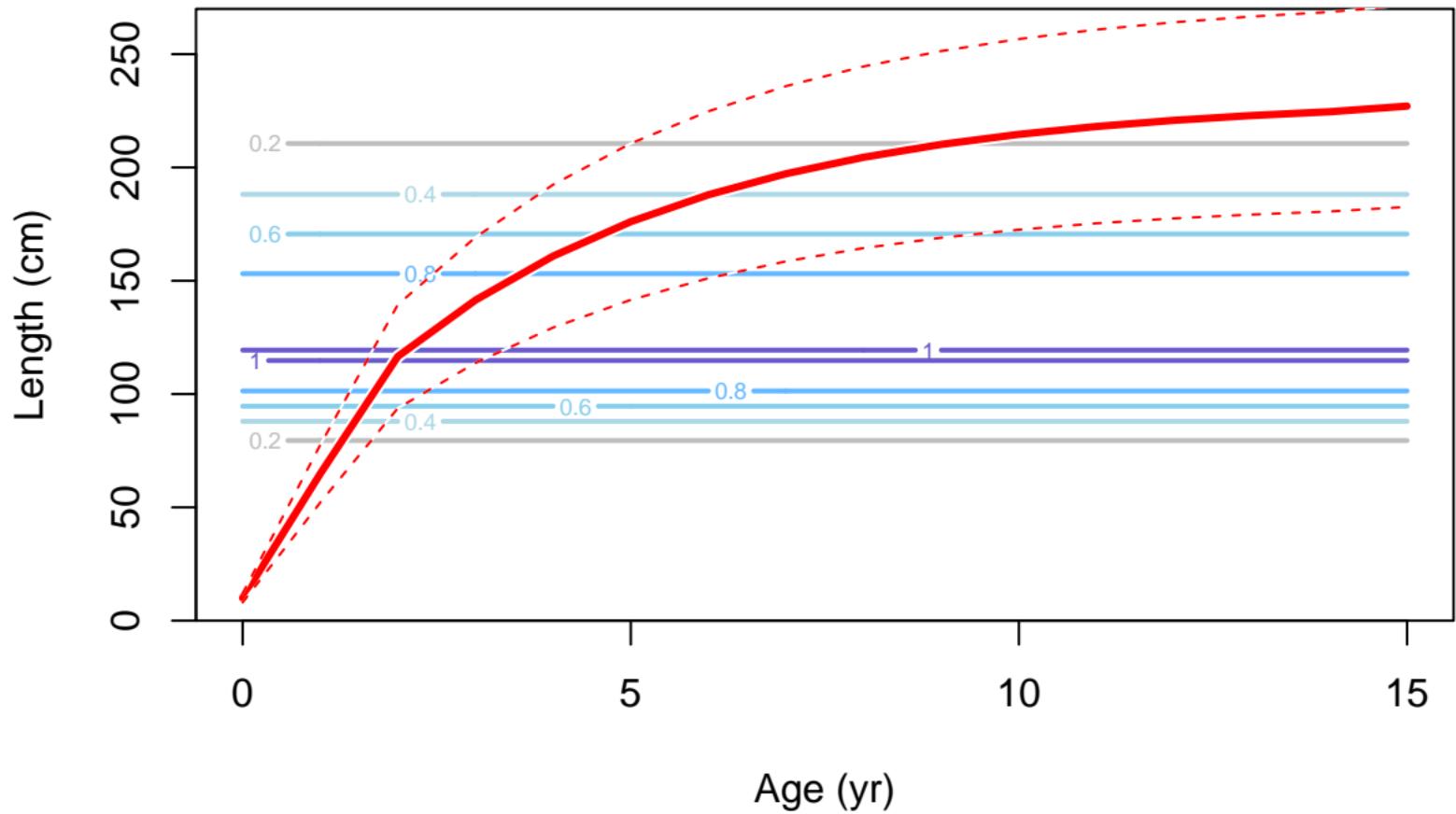


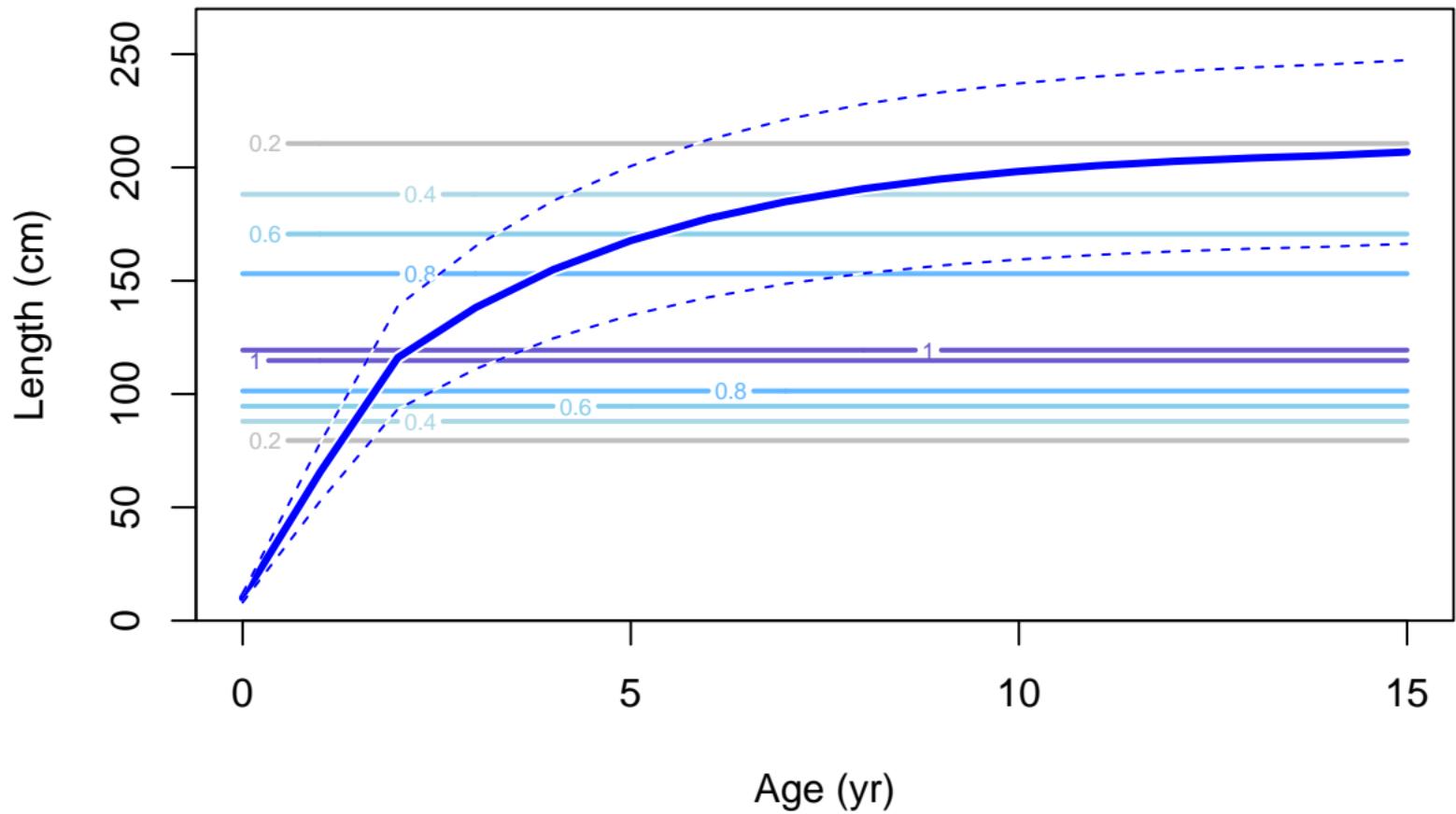


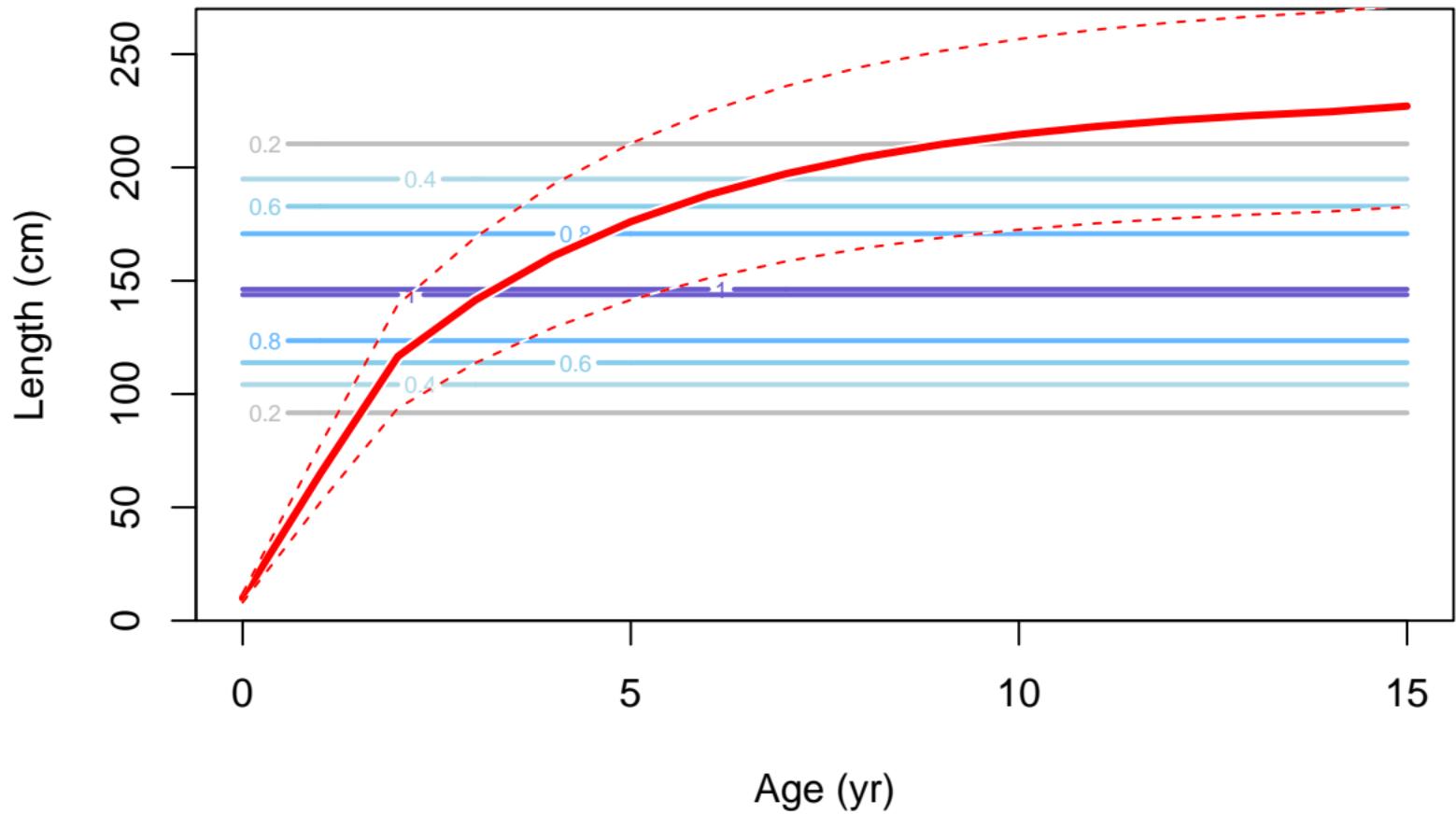


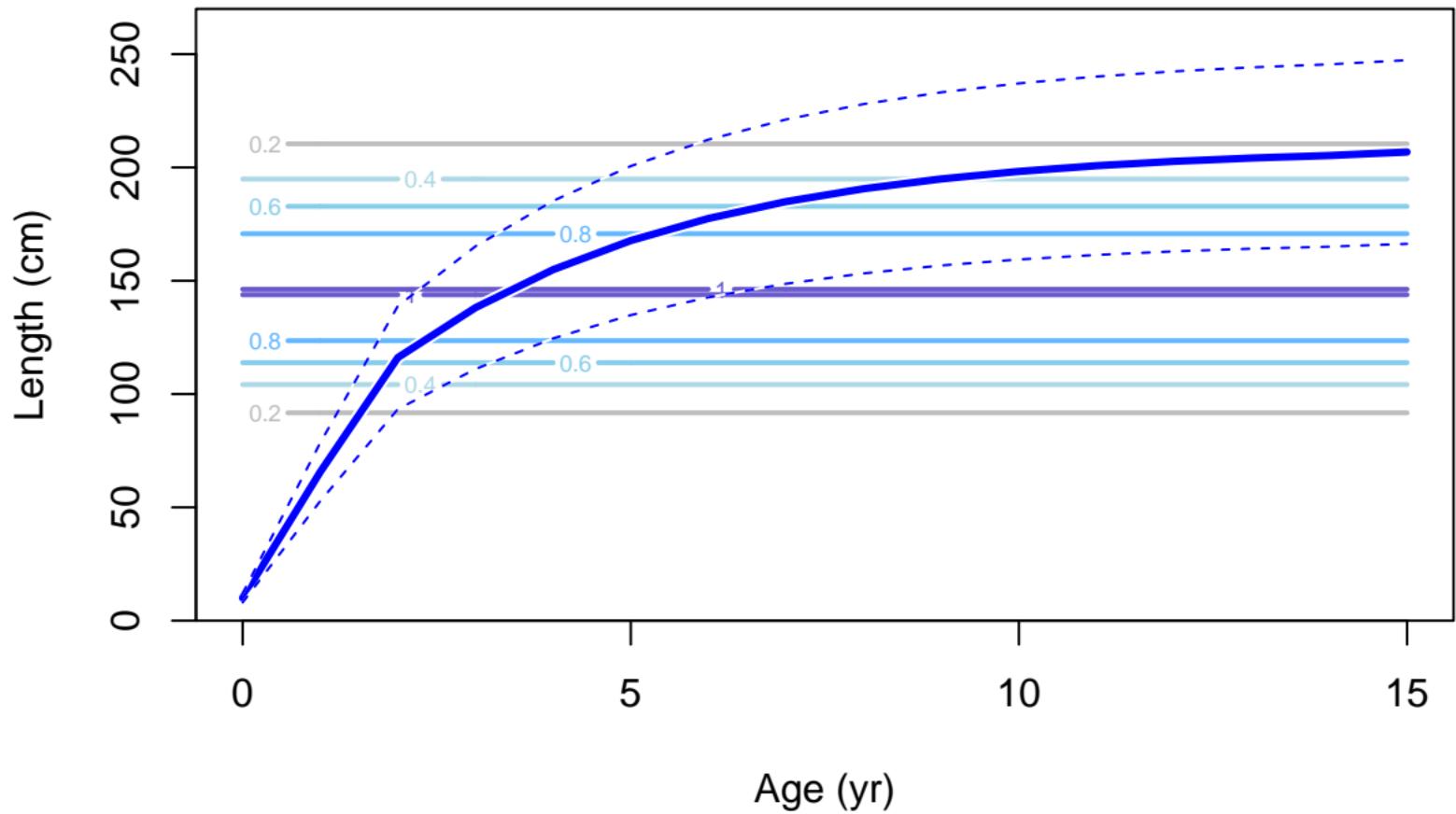


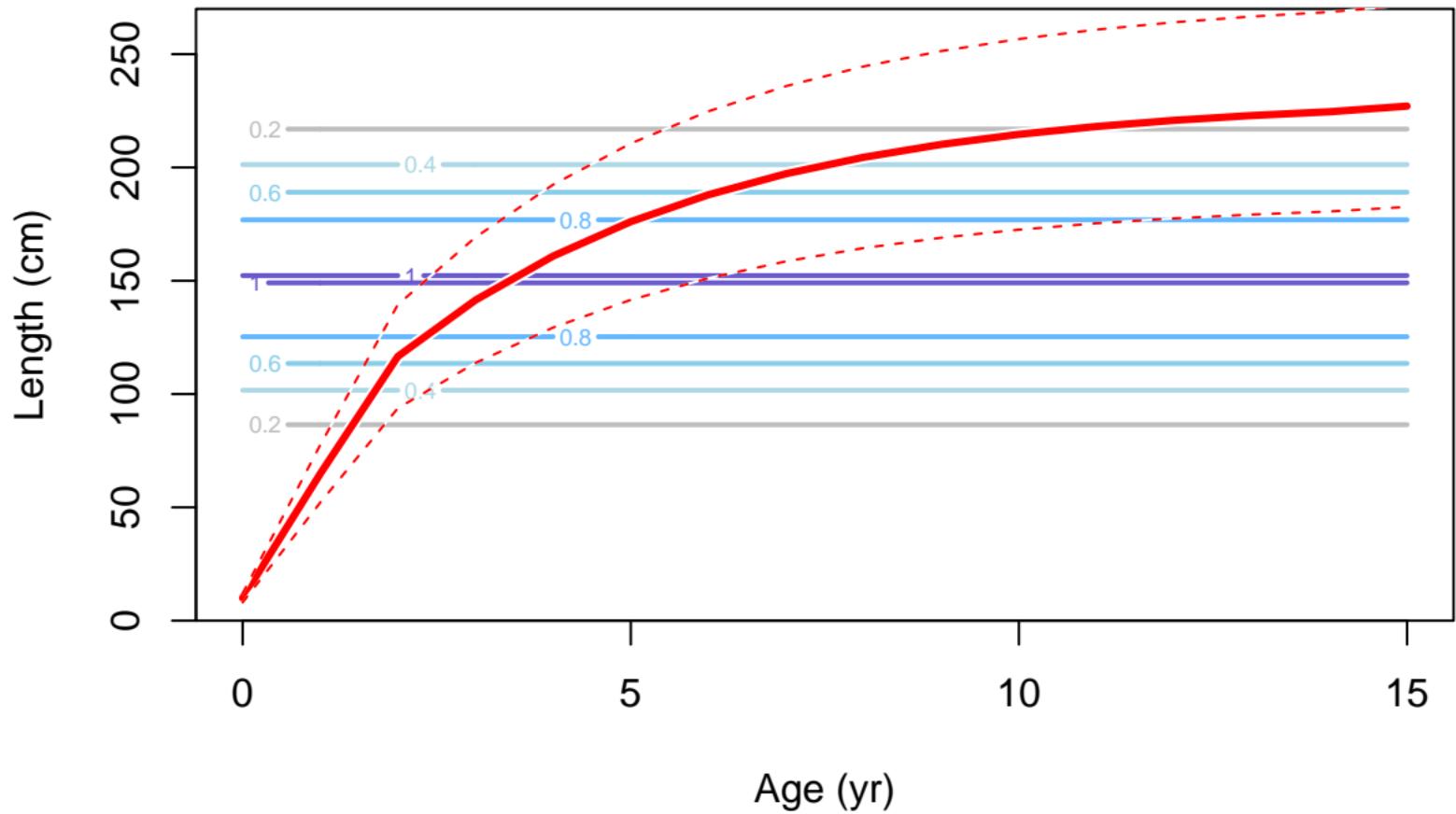


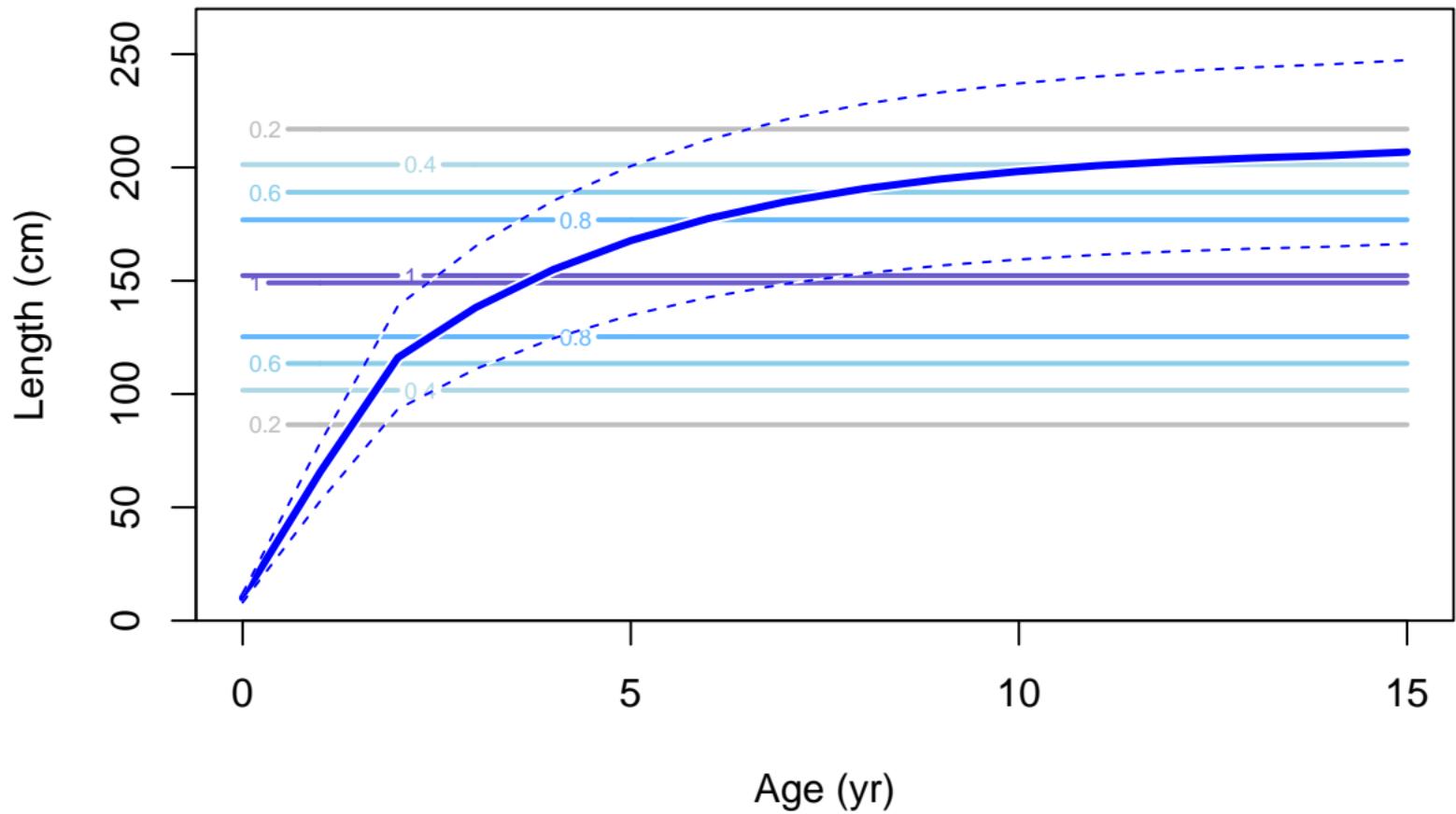


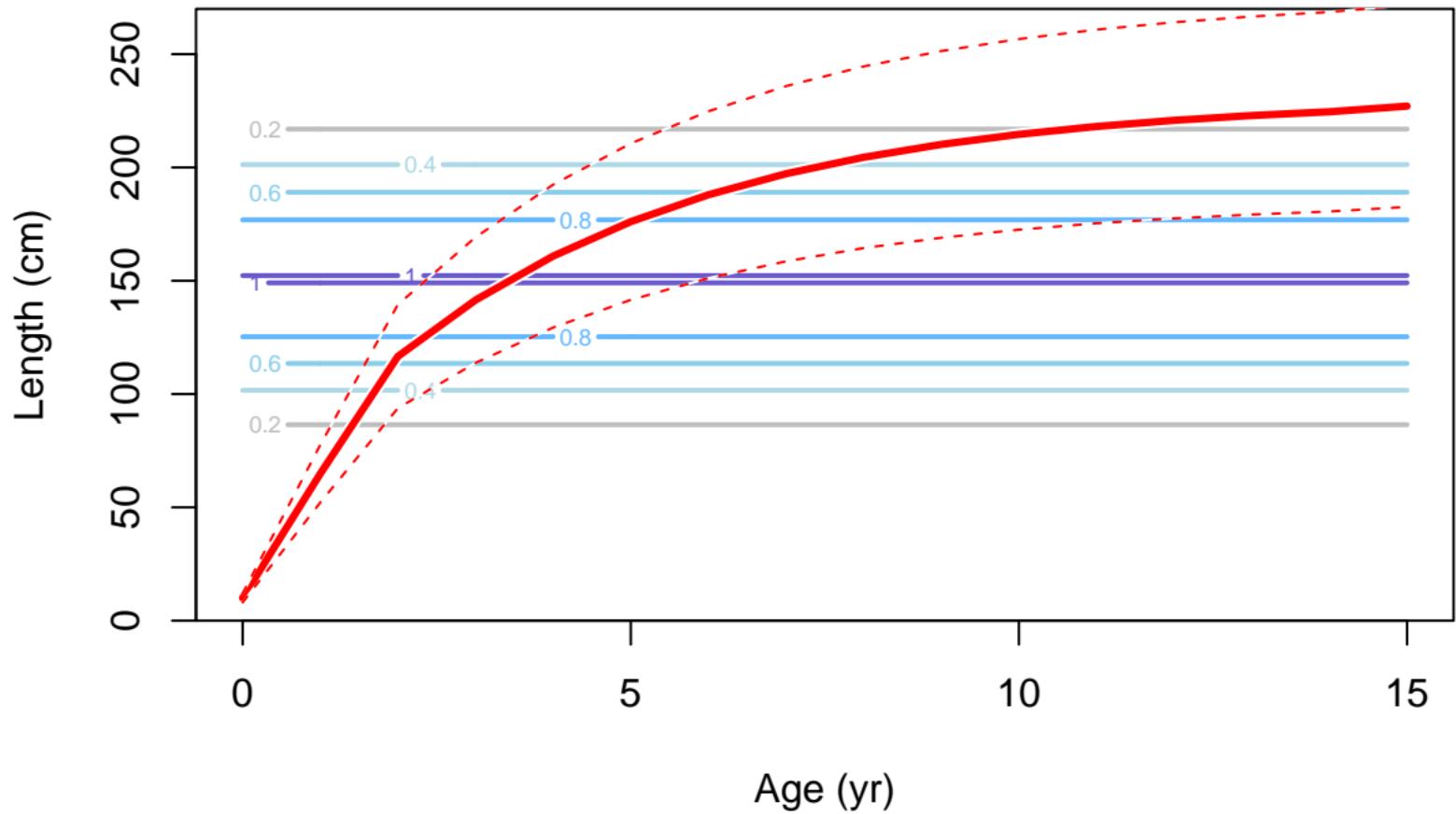


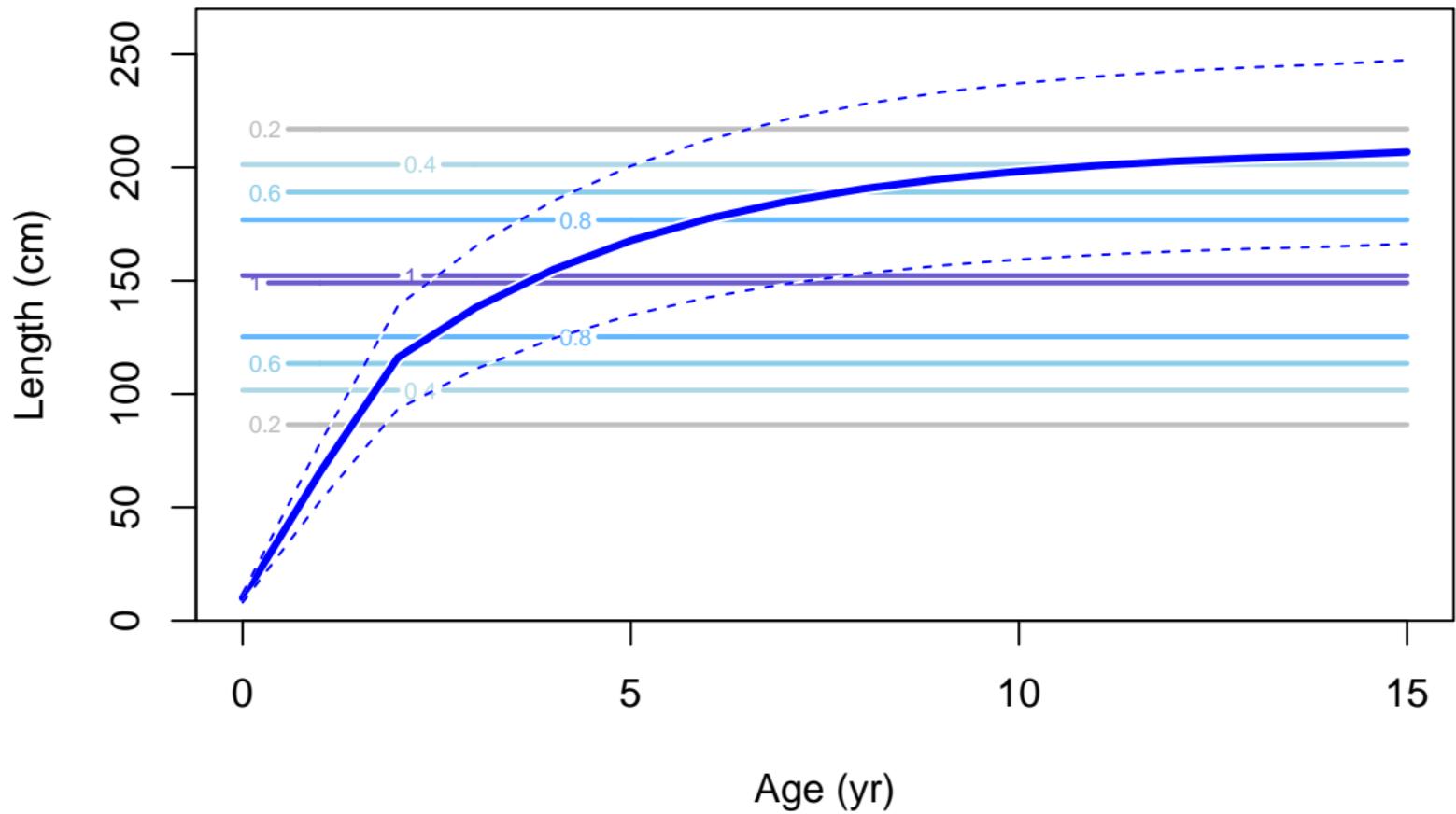


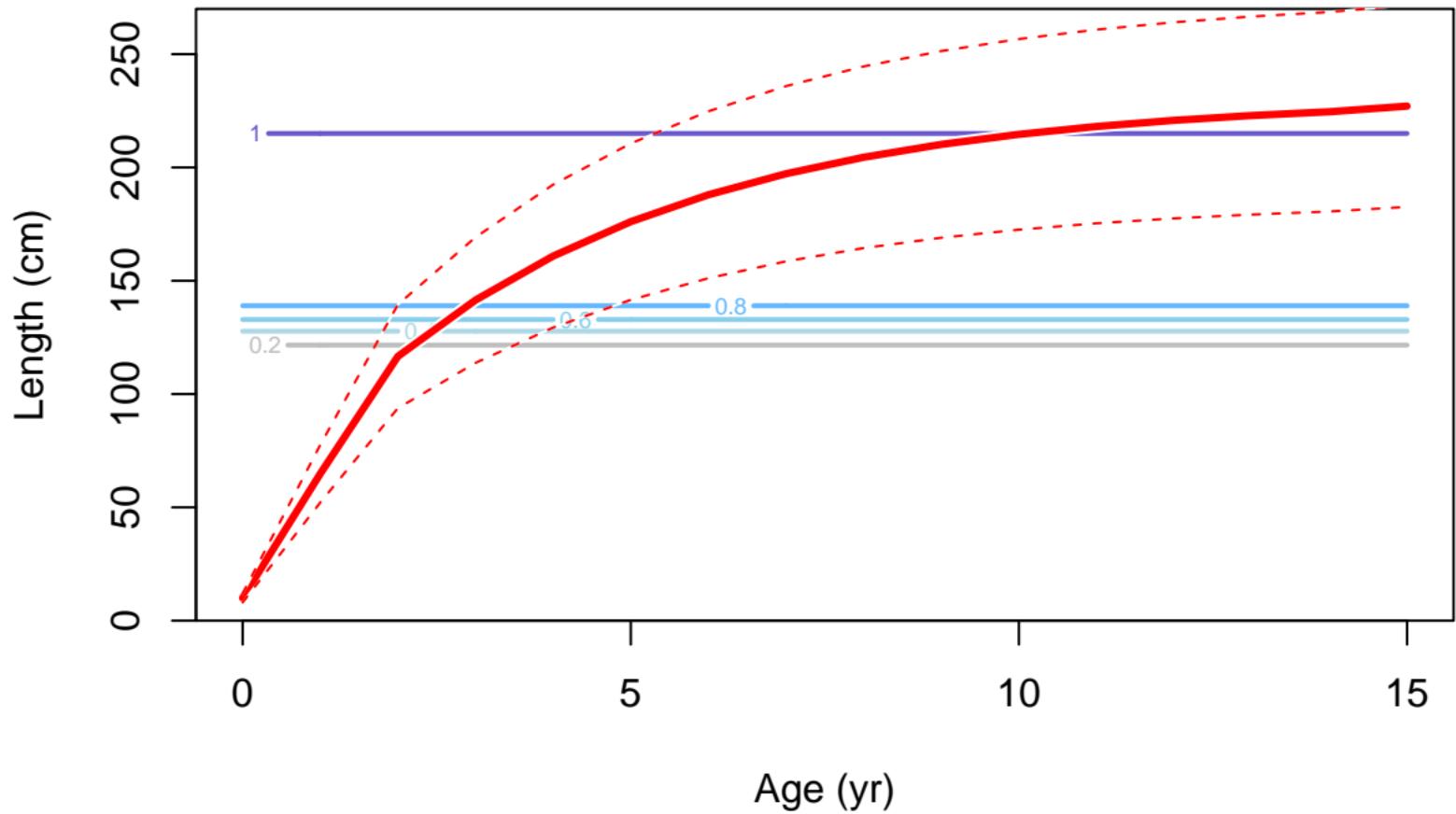


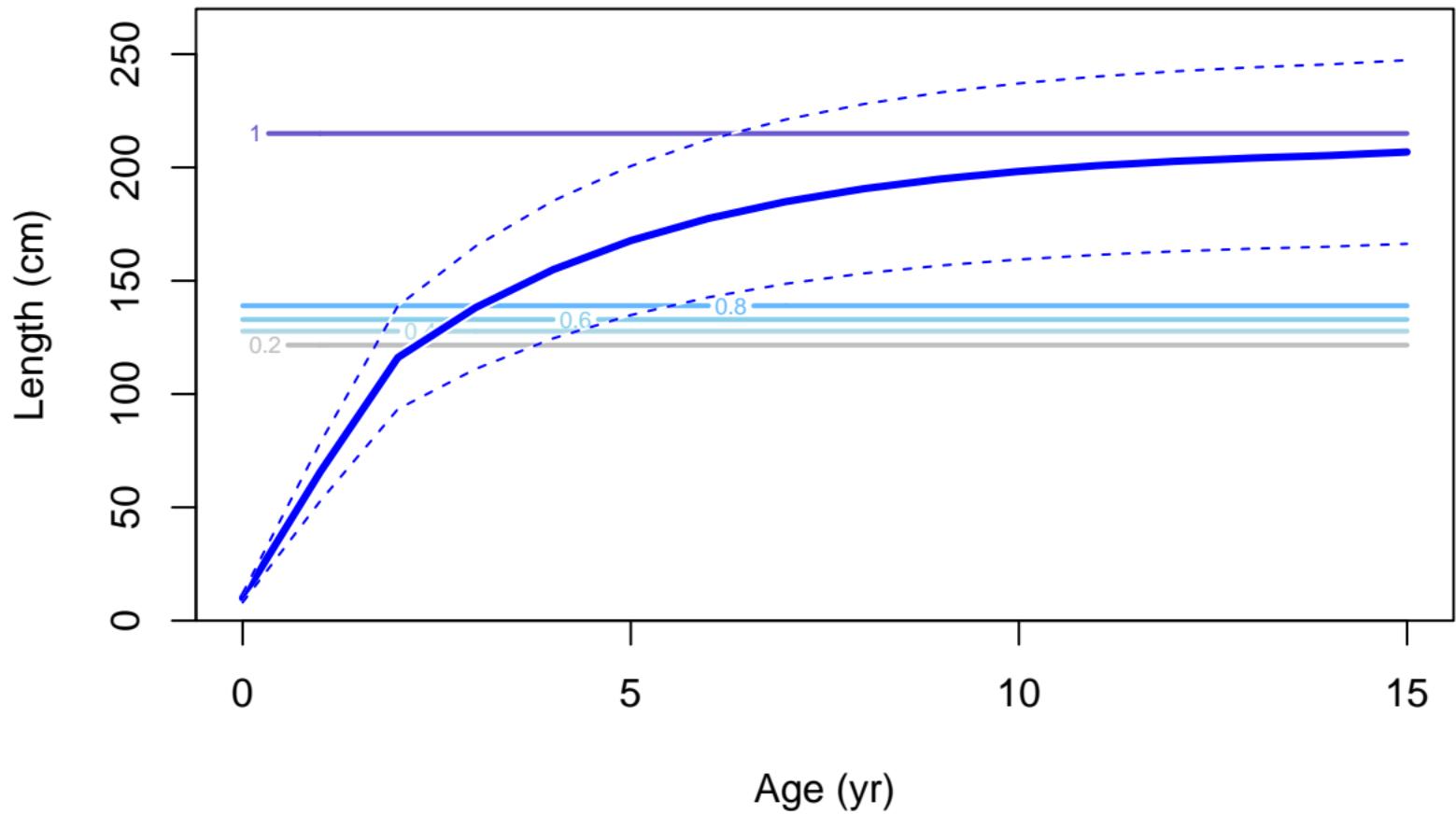


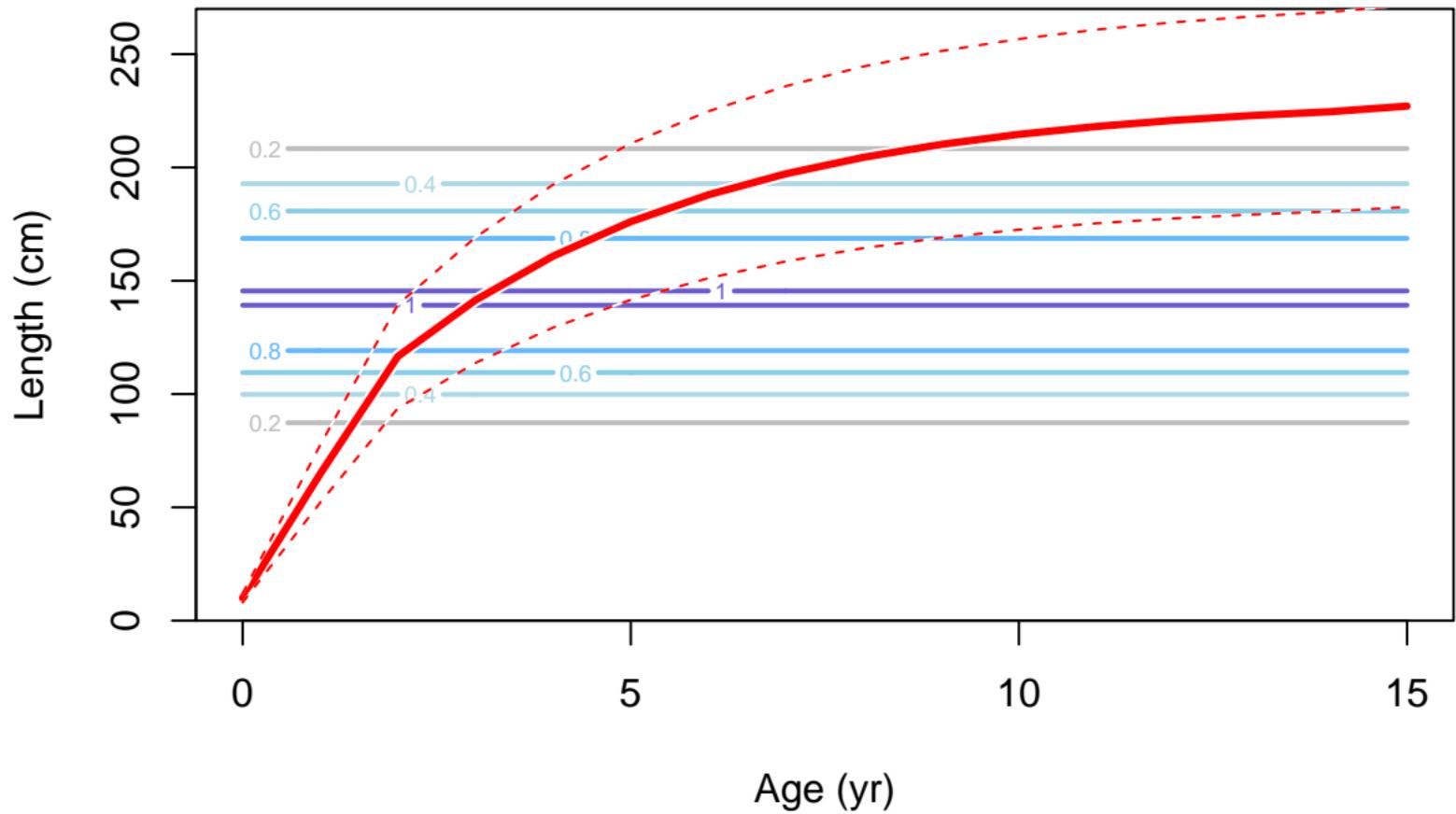


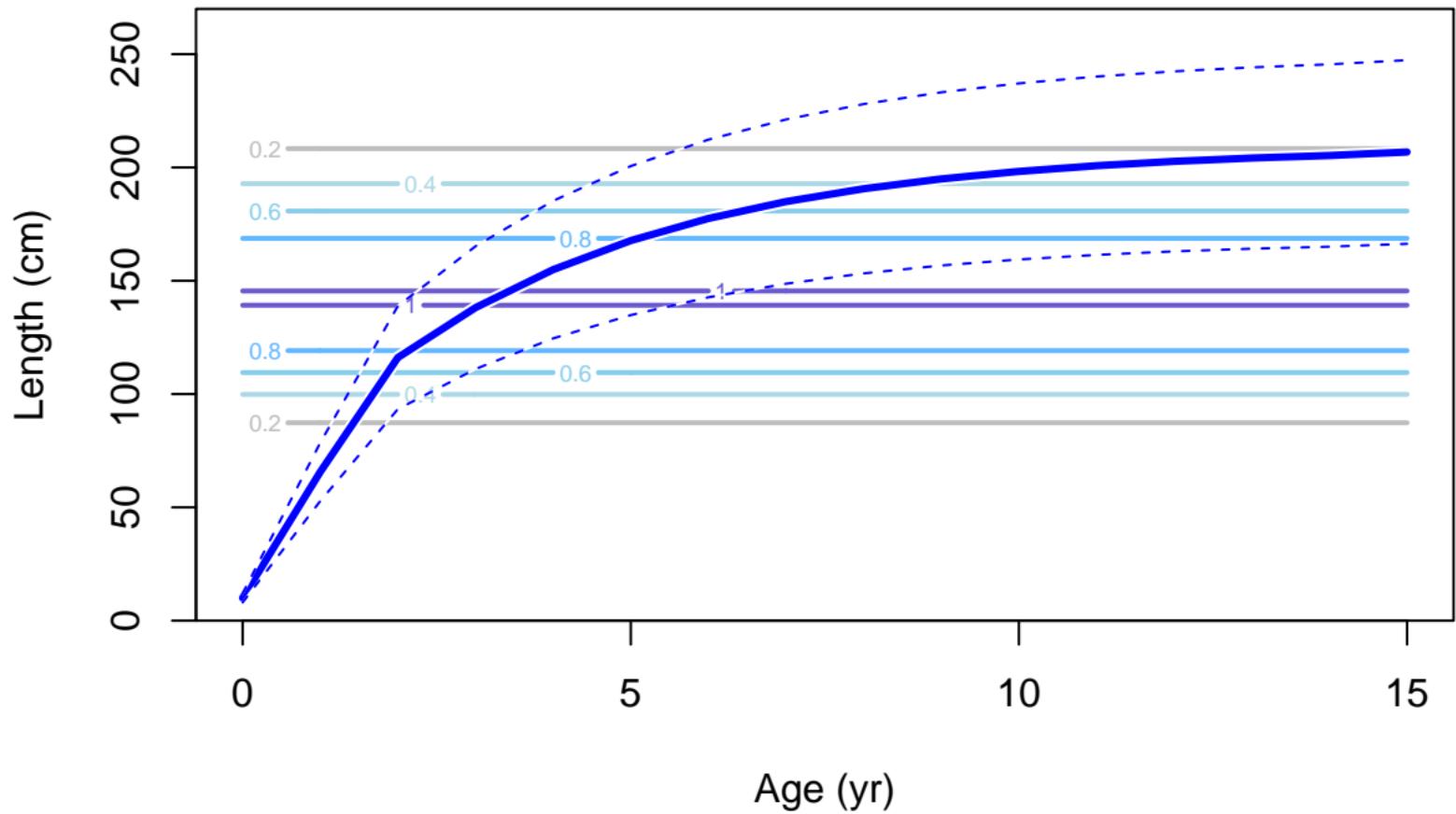


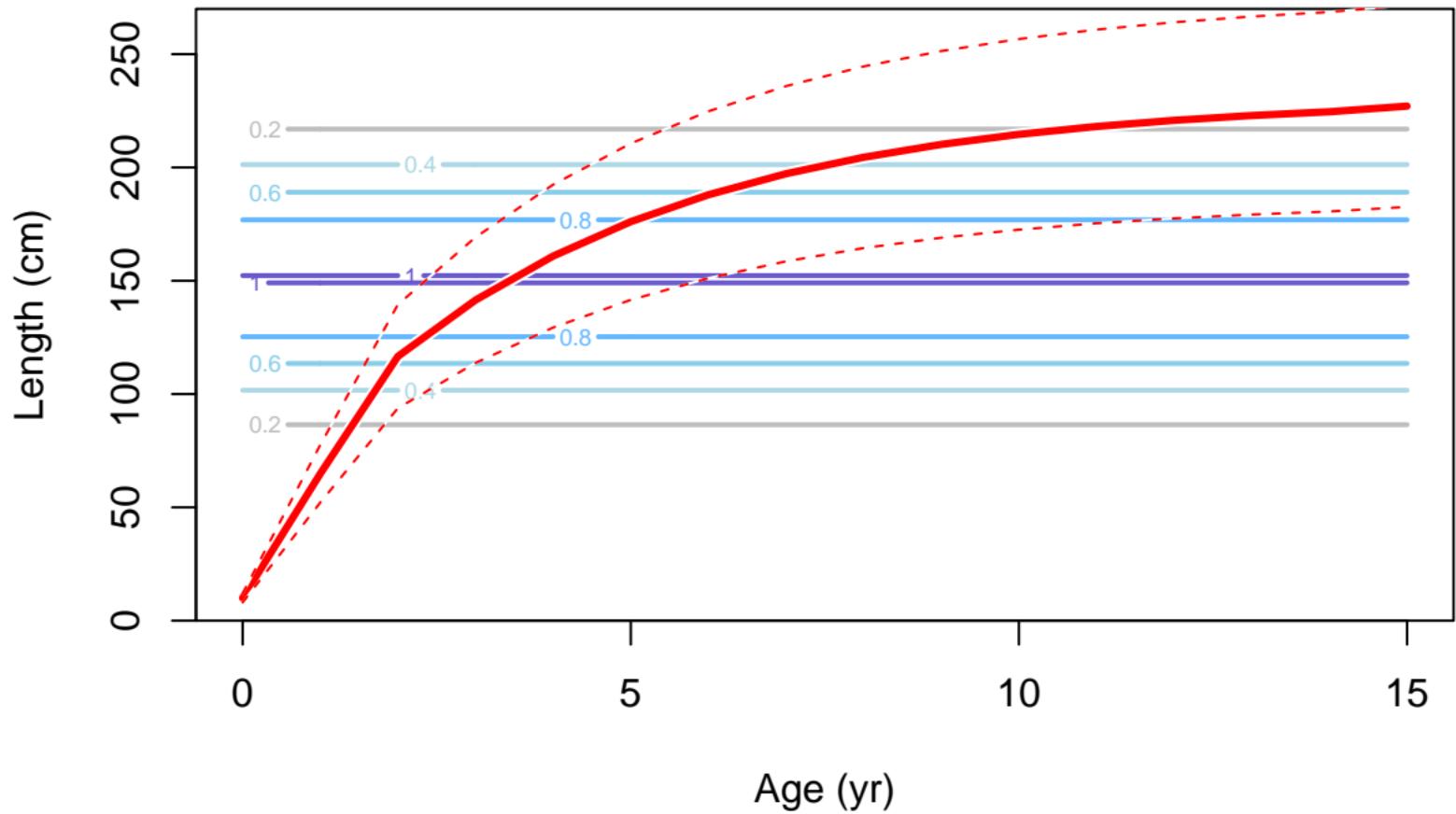


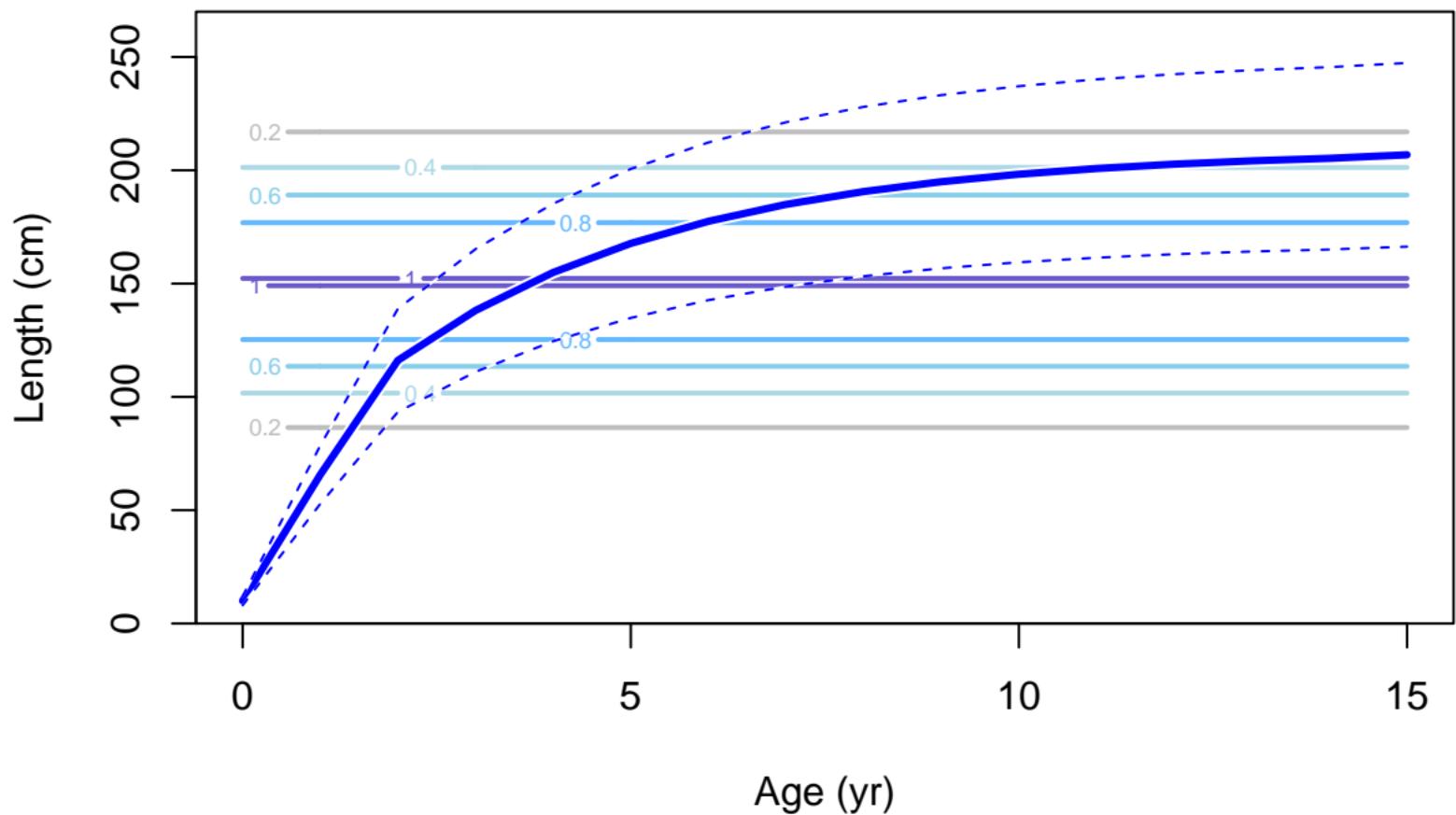


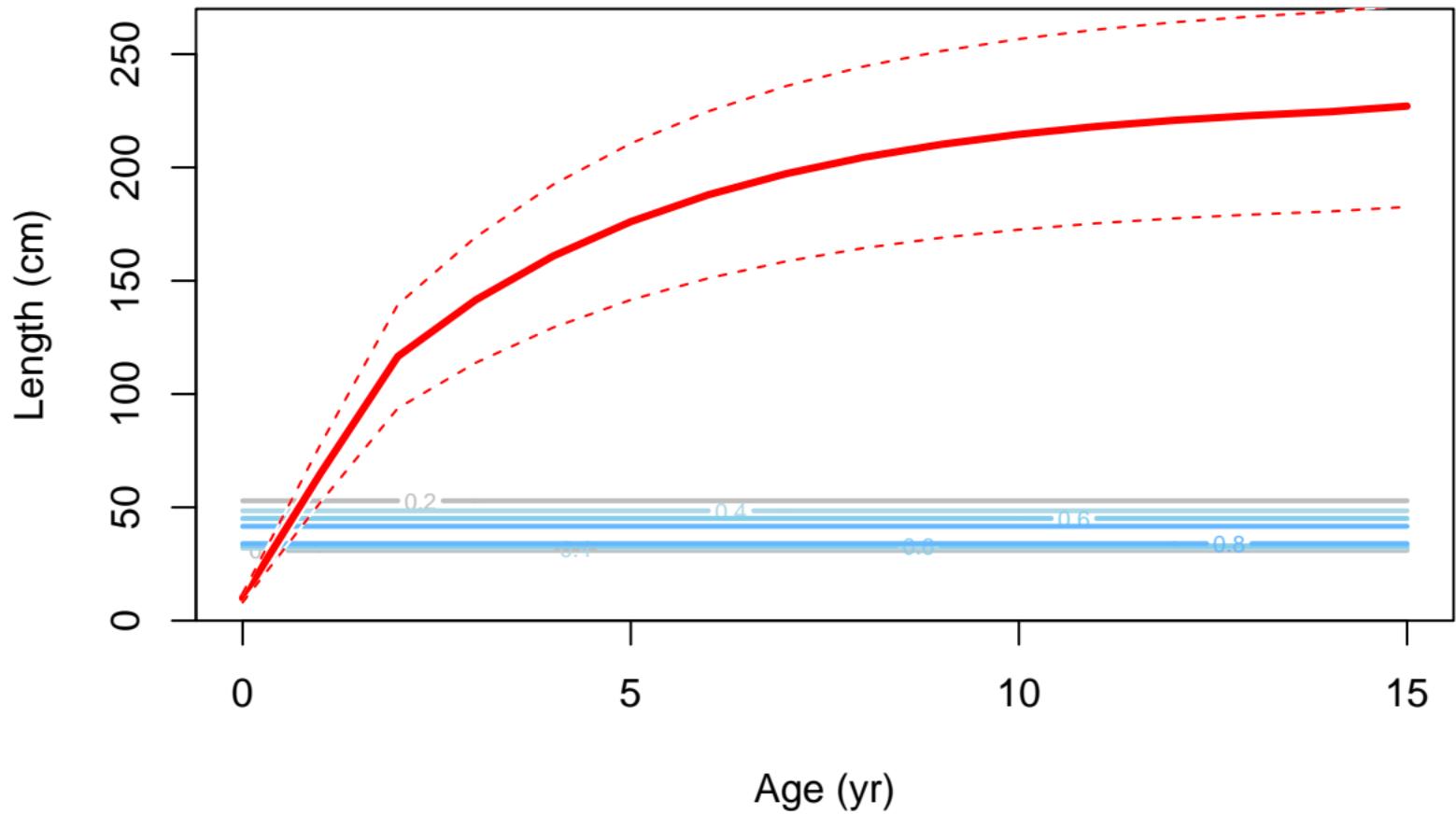


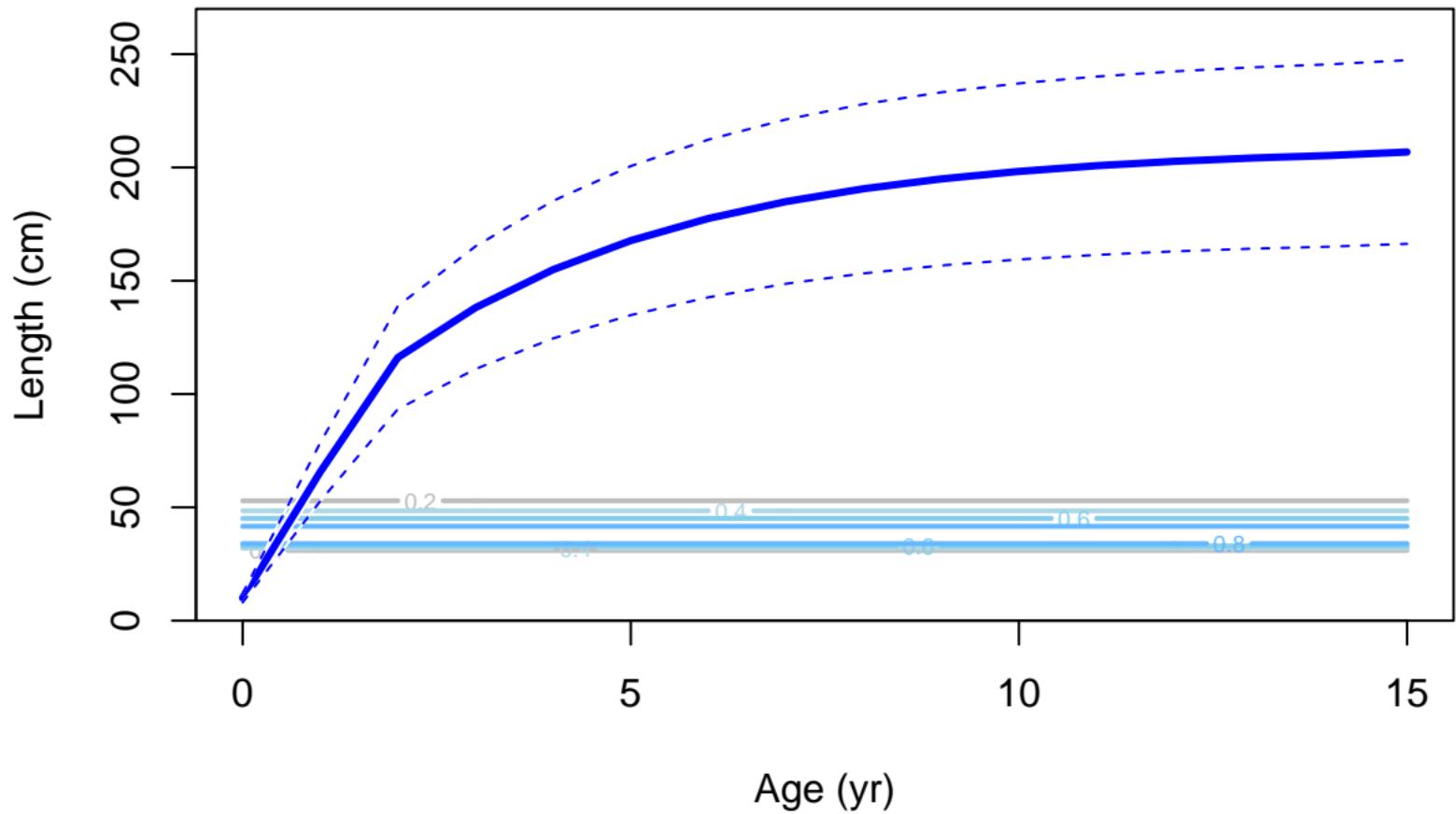


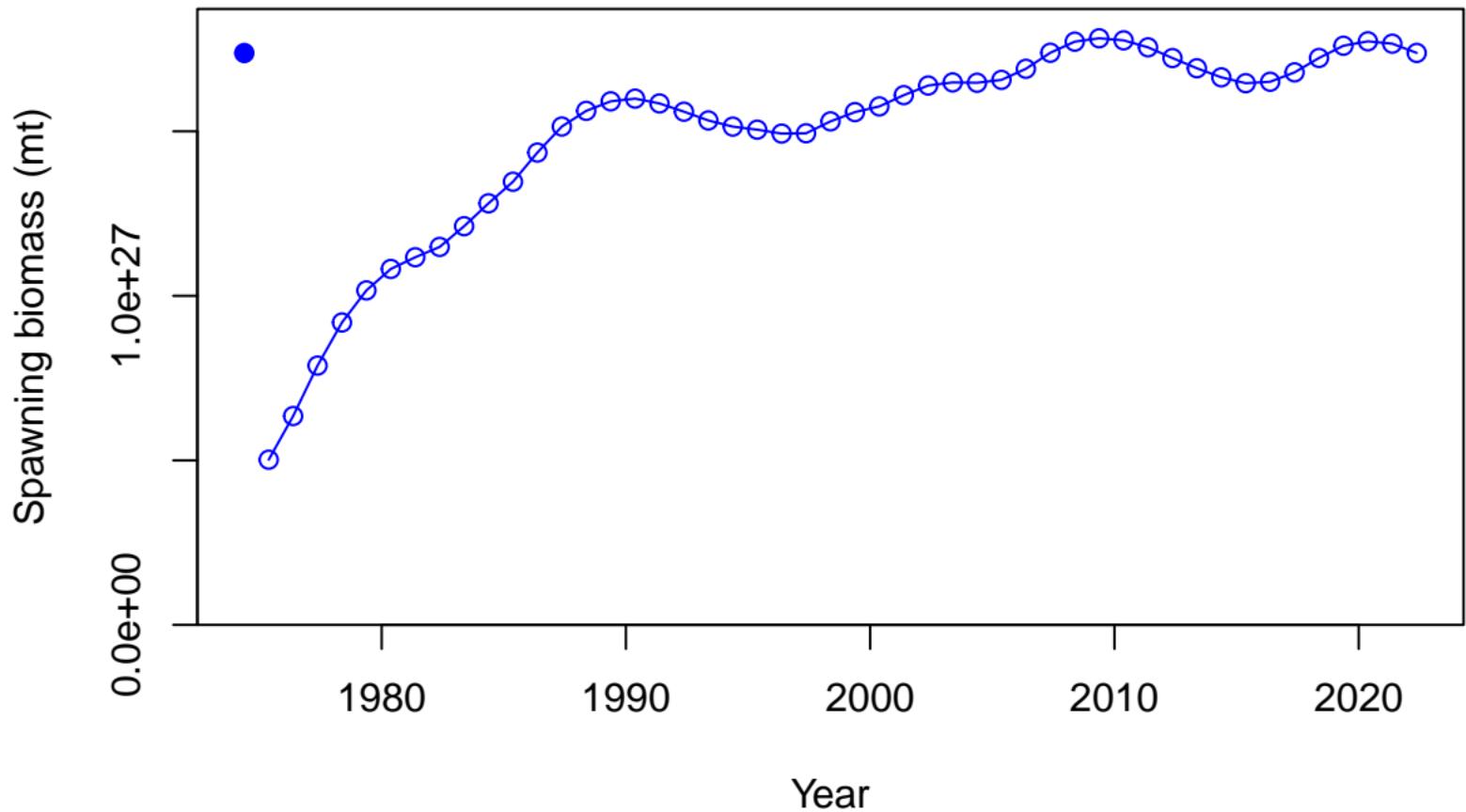


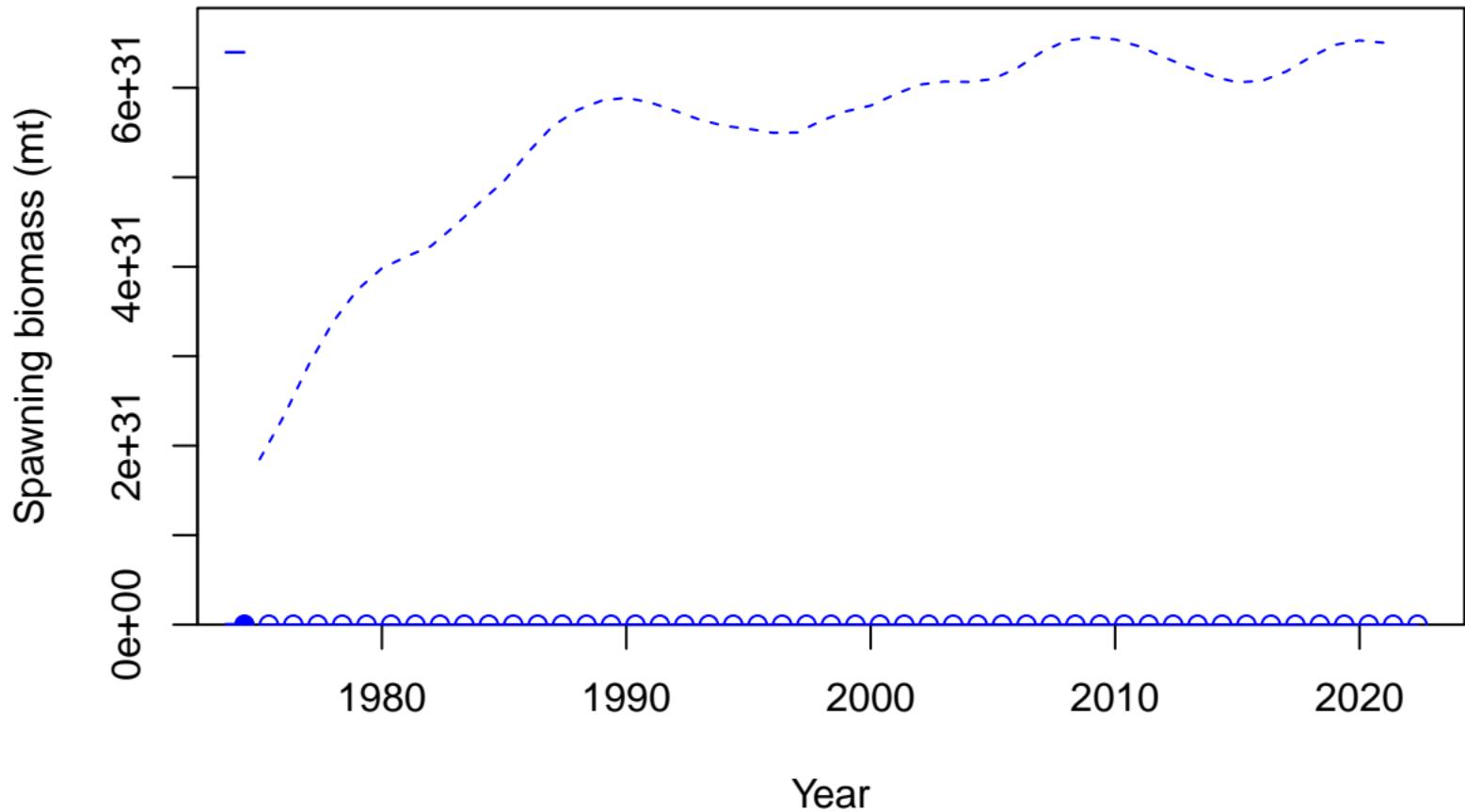




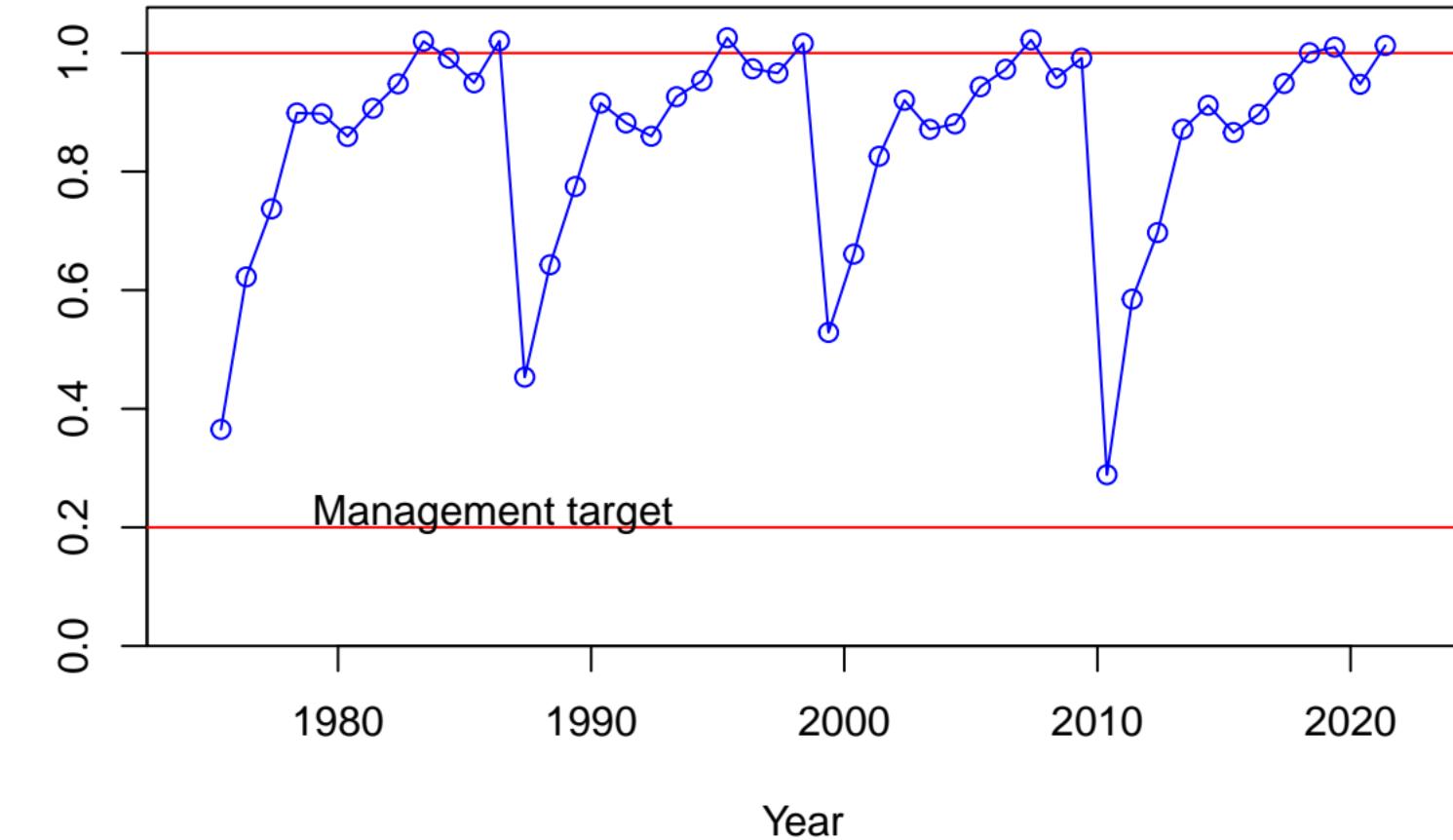




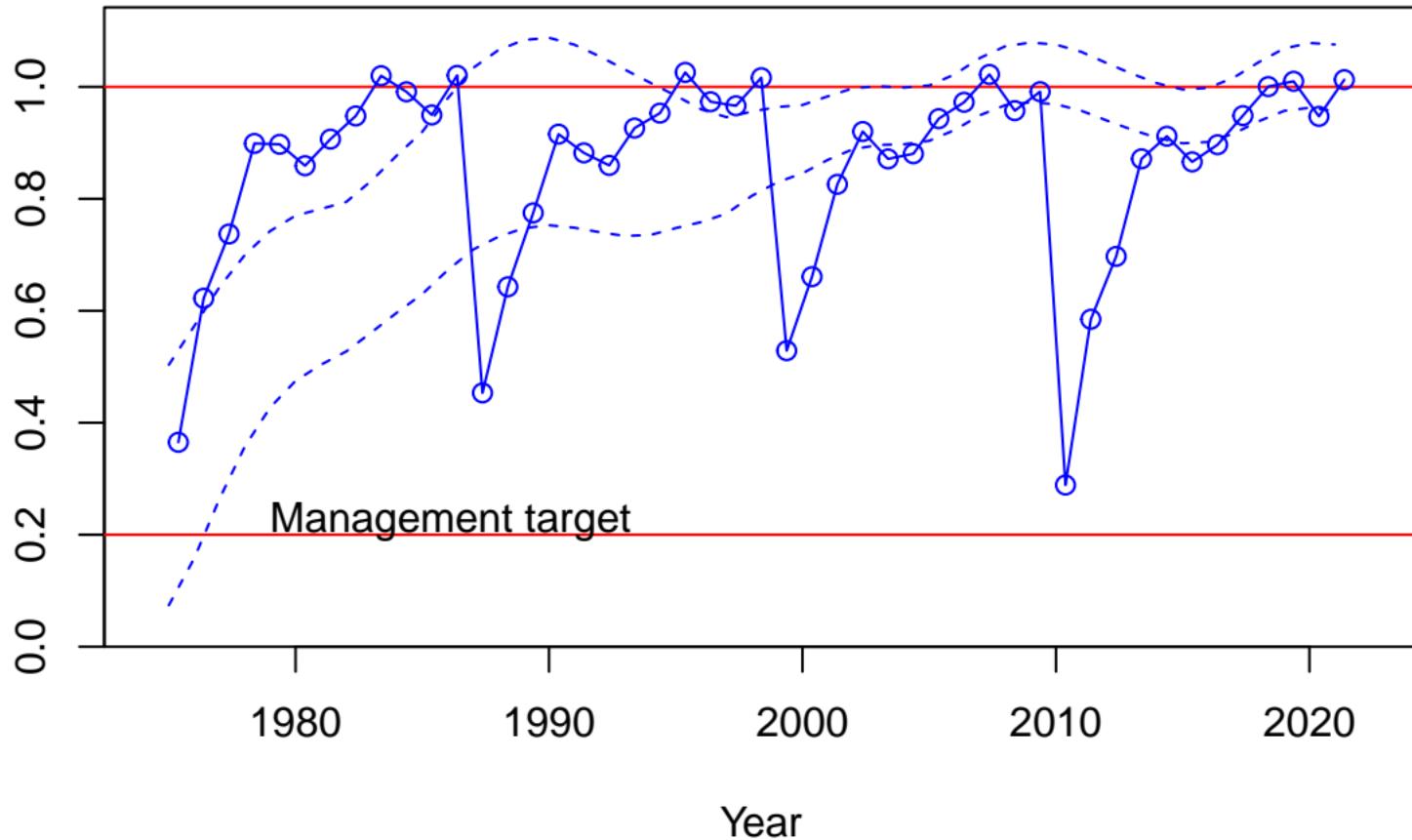


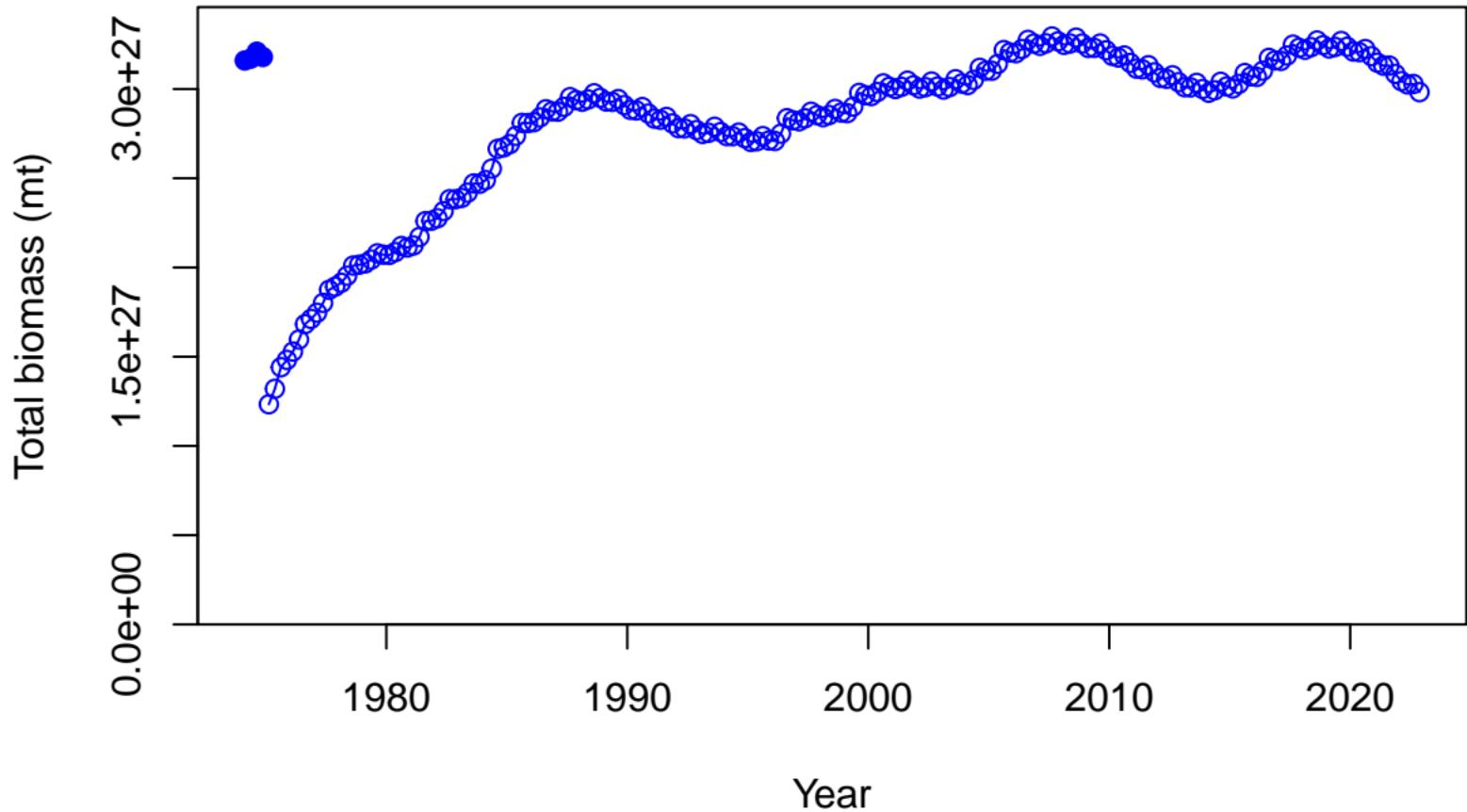


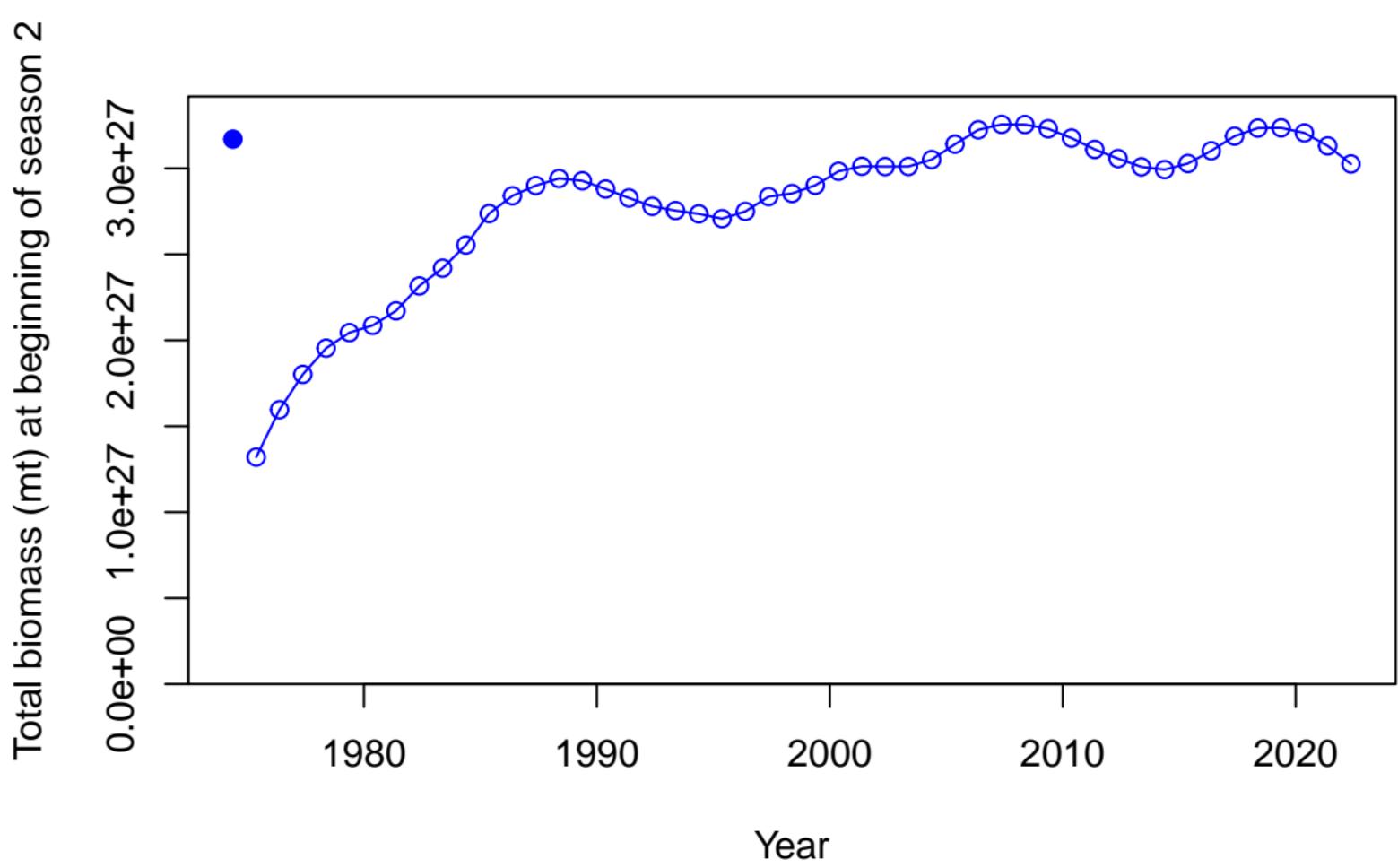
Relative spawning biomass:  $B/B_0$

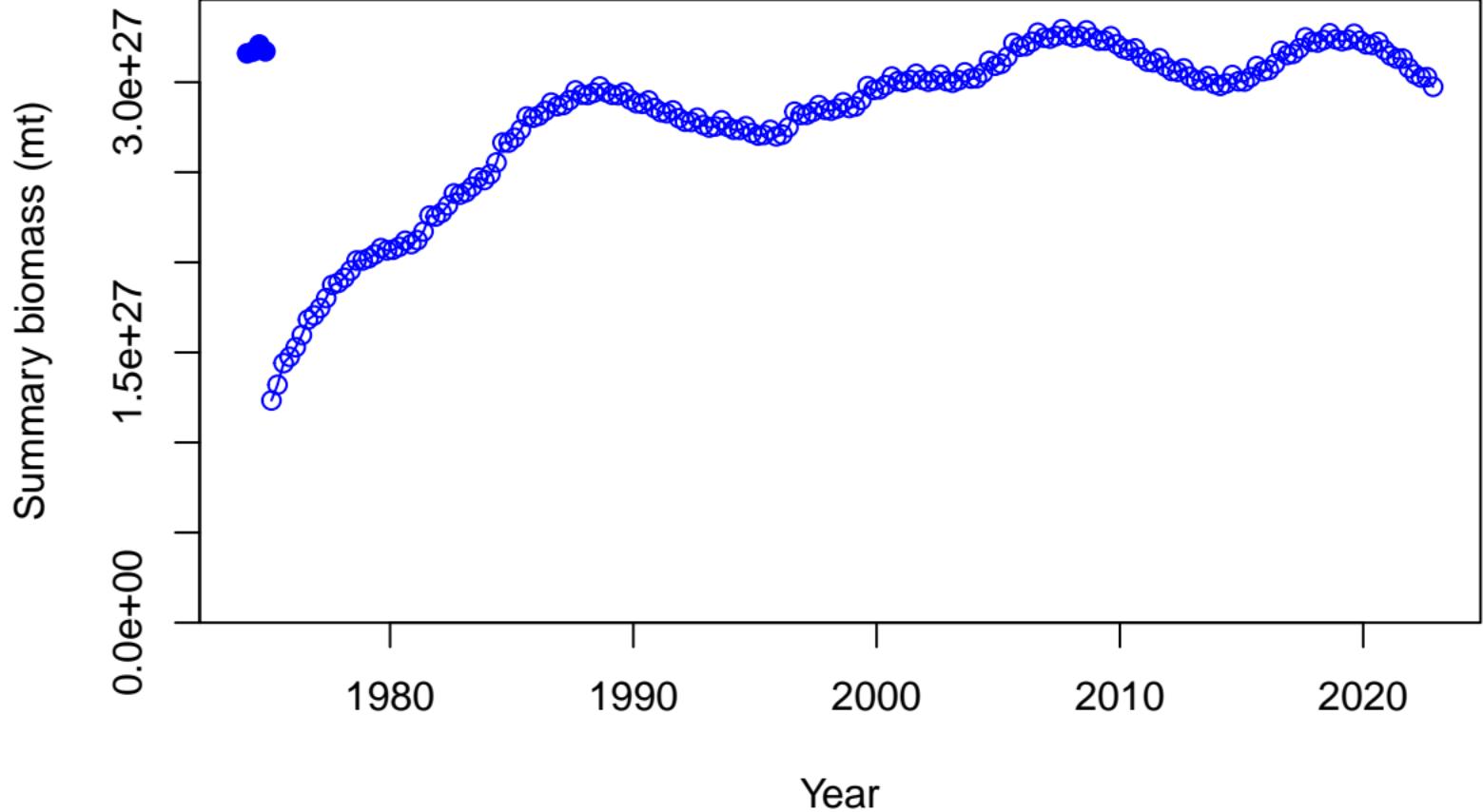


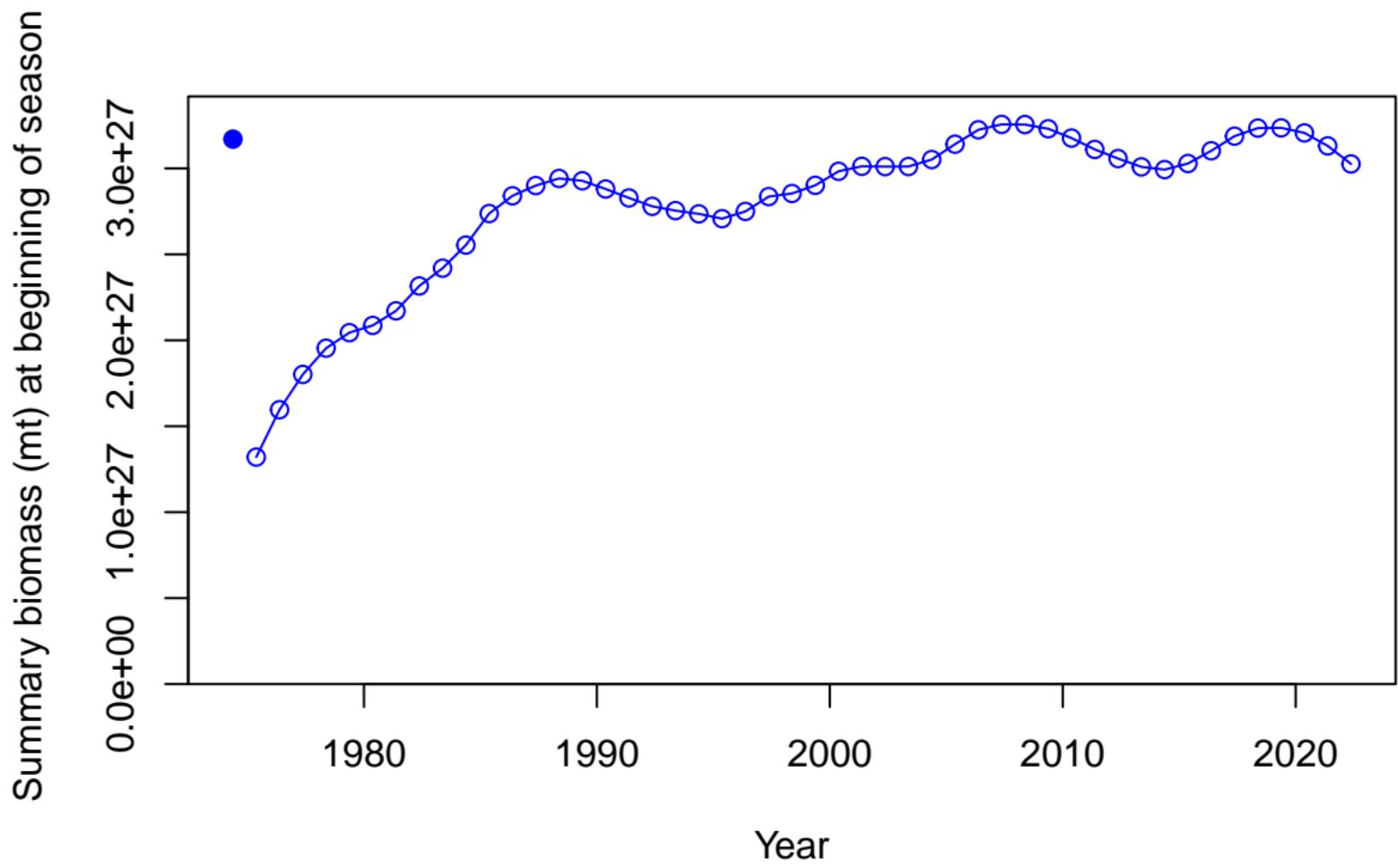
Relative spawning biomass:  $B/B_0$

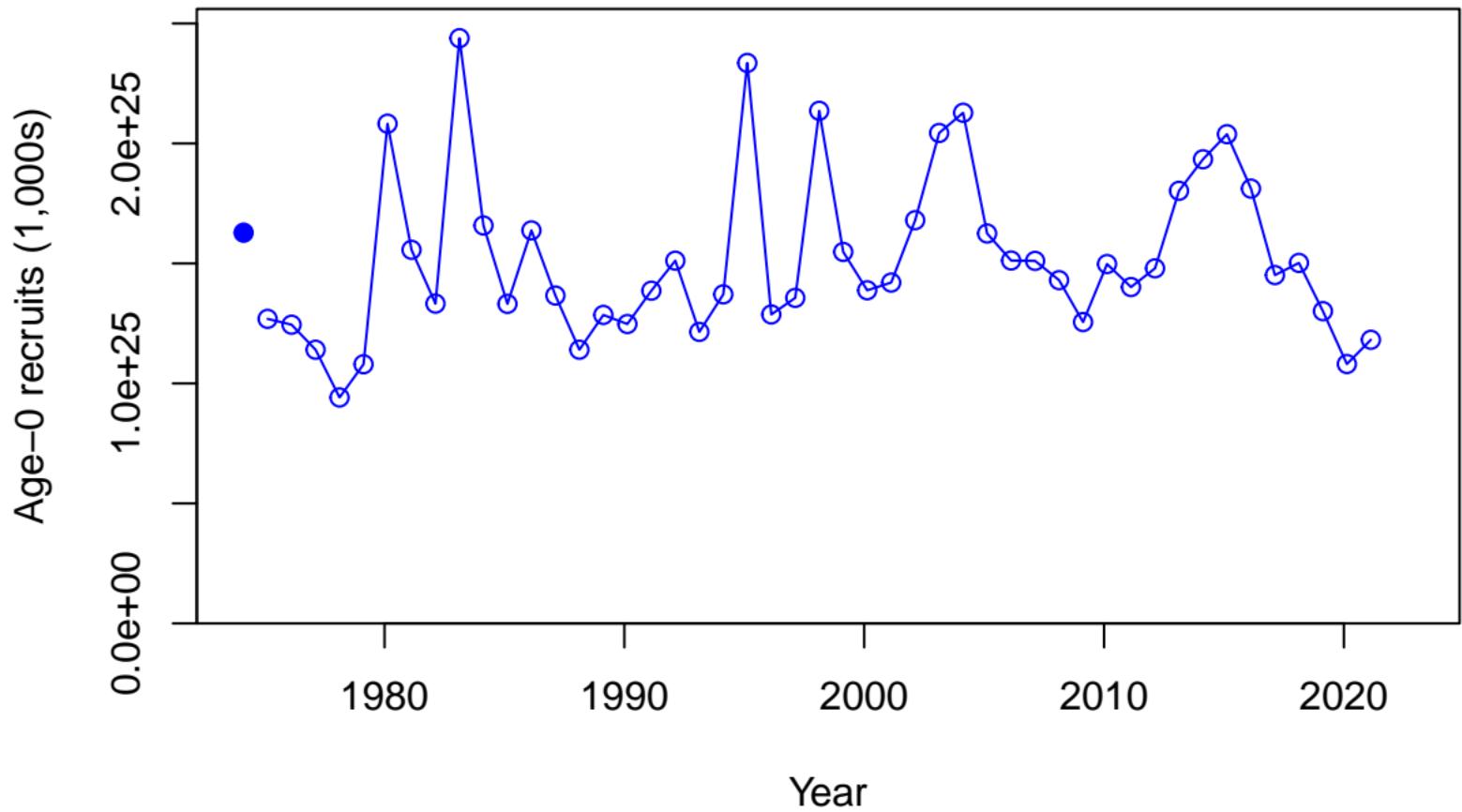


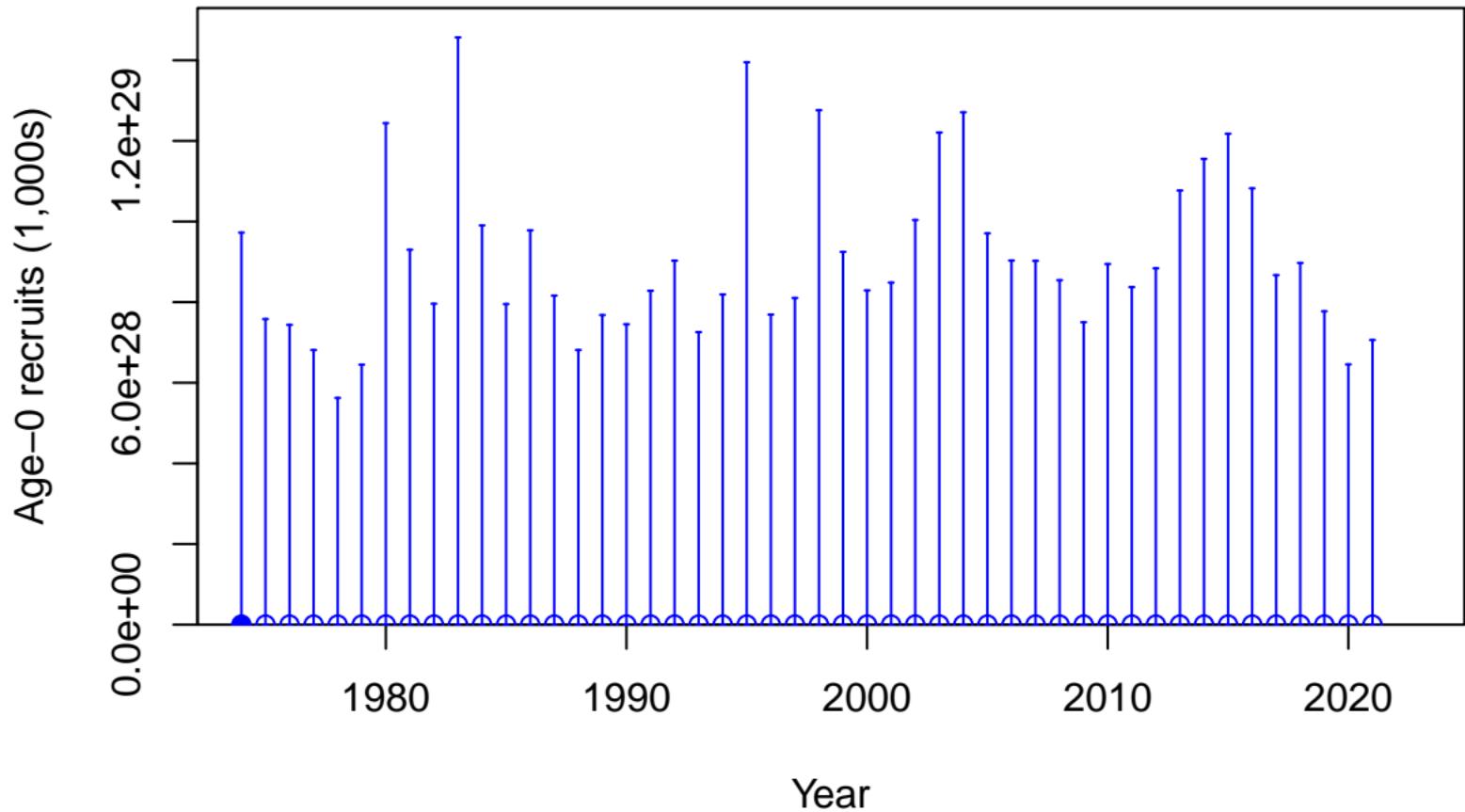


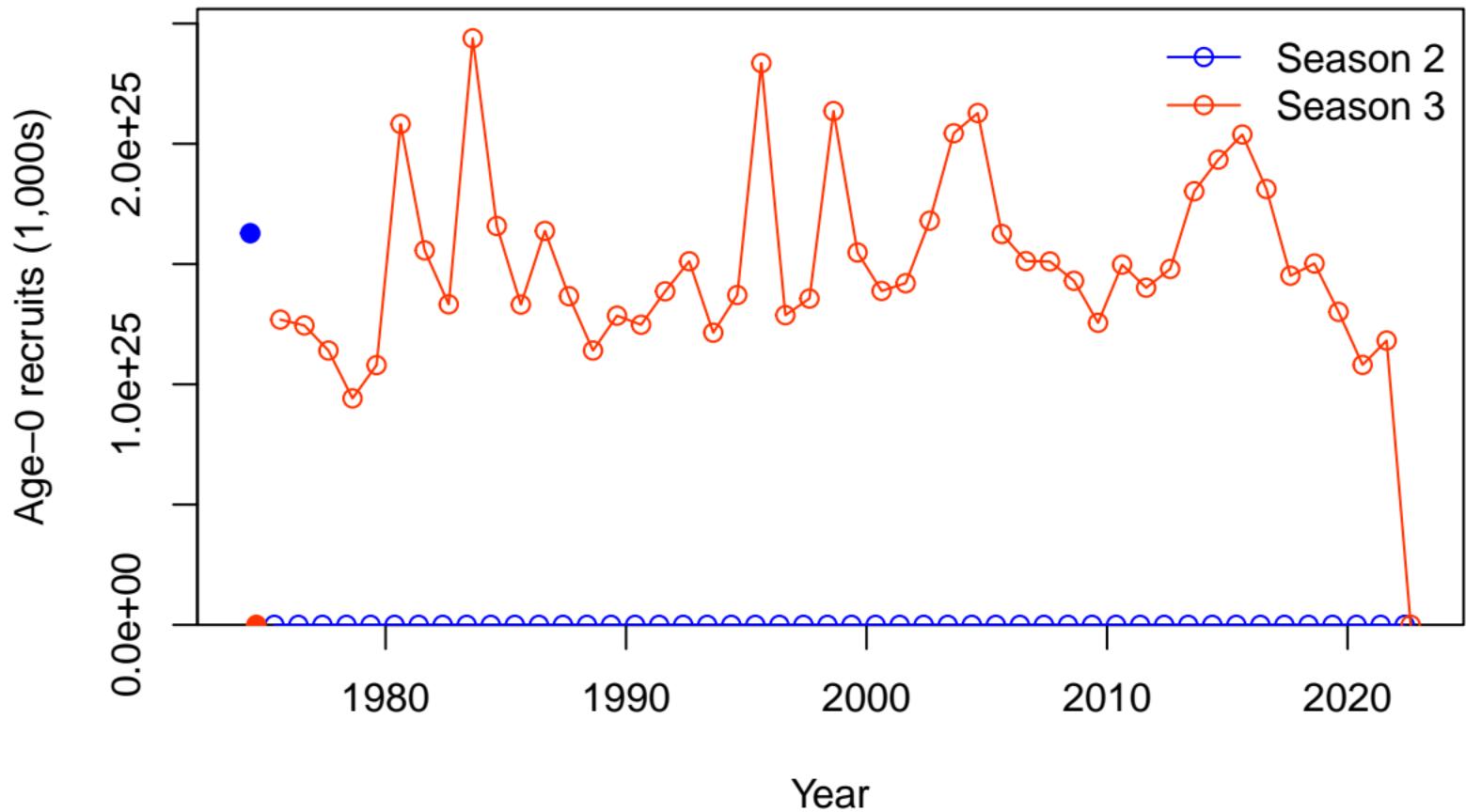




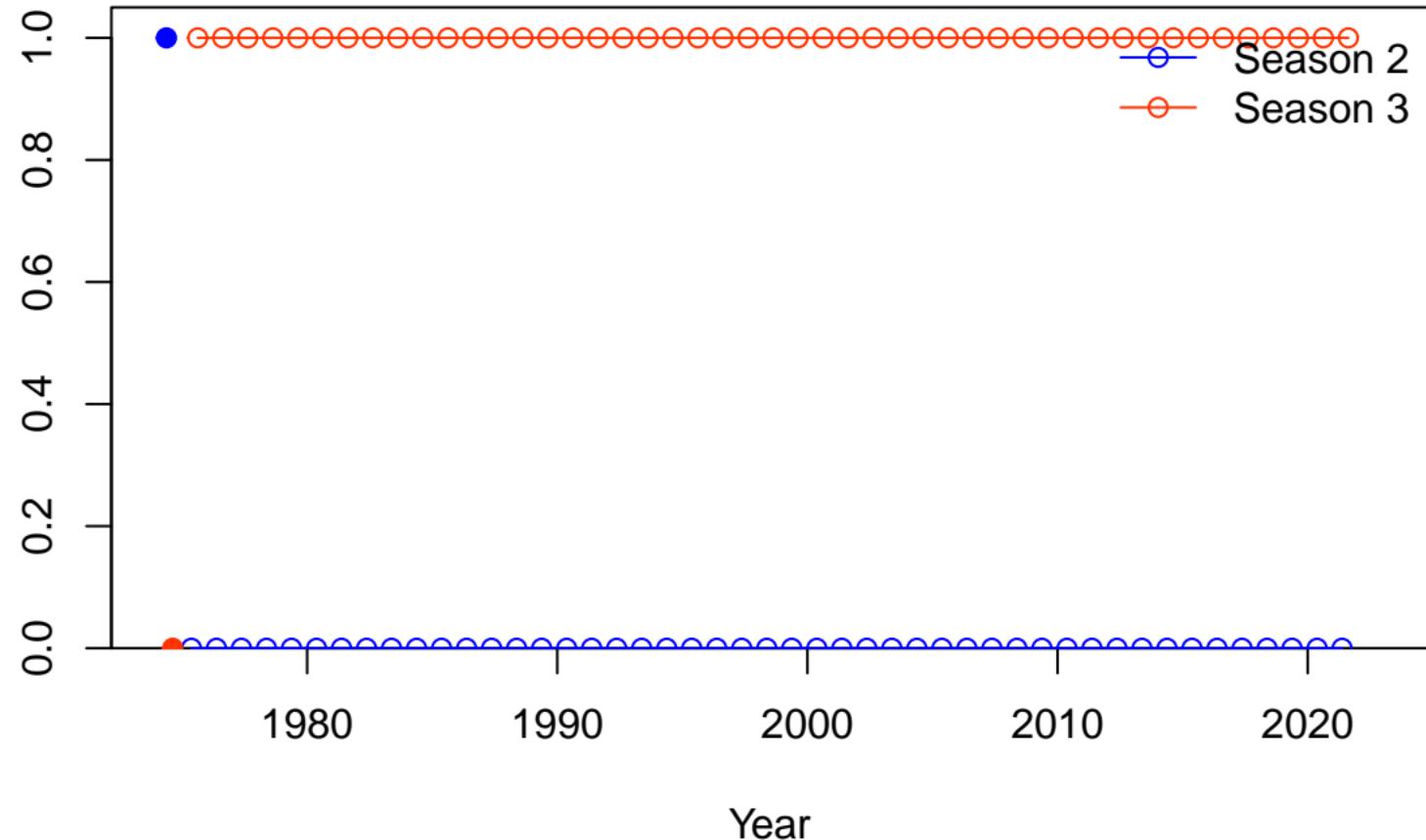




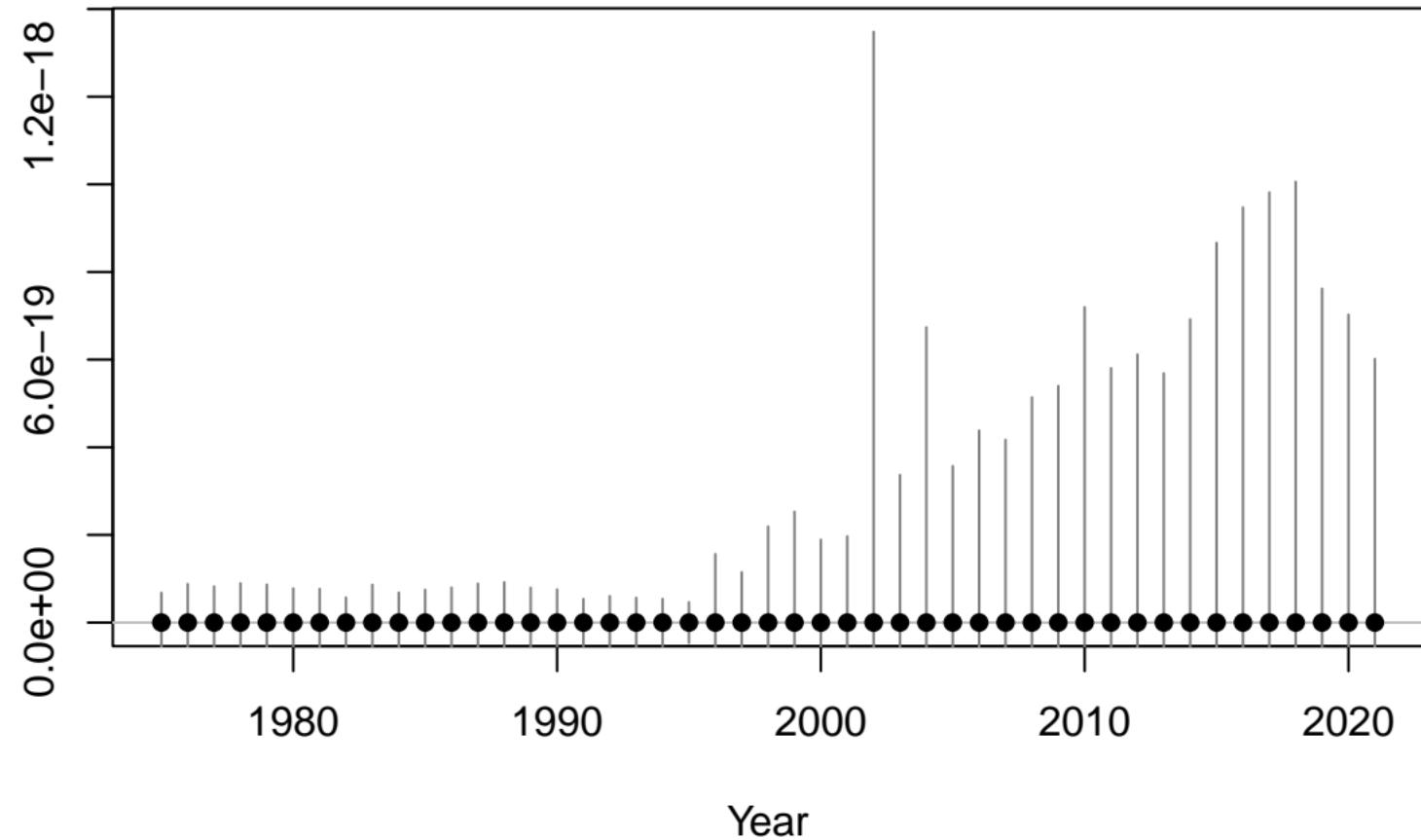


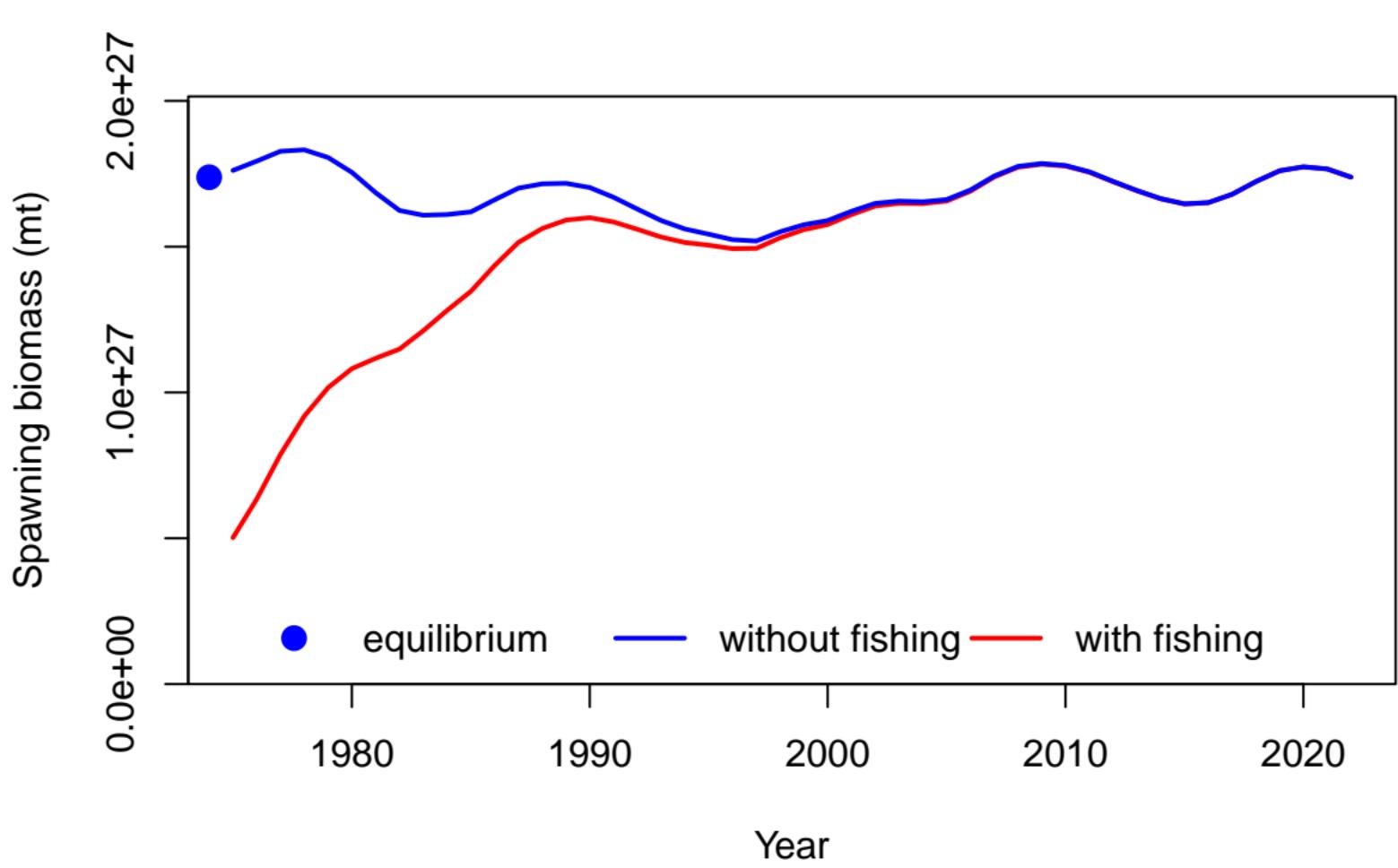


Fraction of total Age-0 recruits

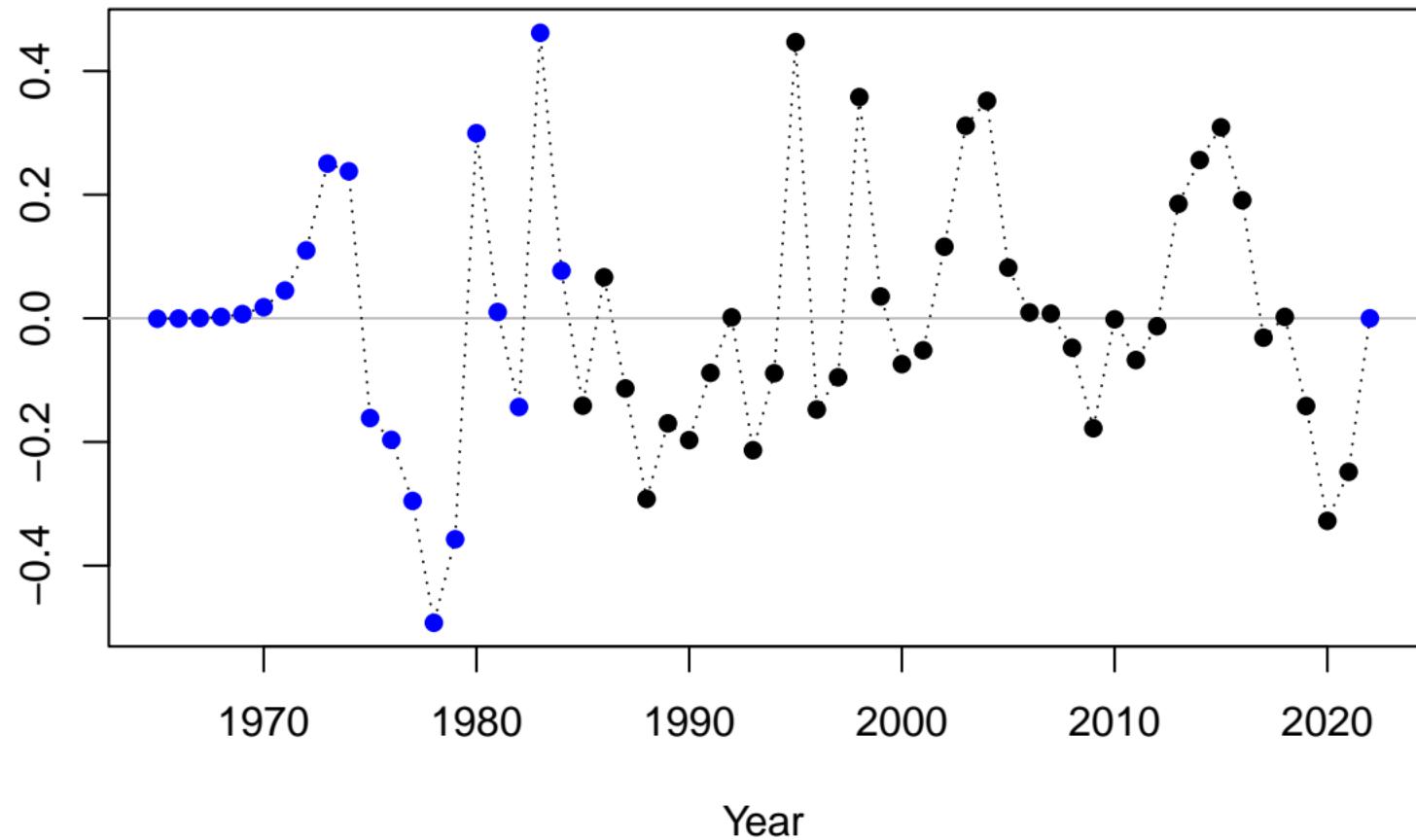


# Summary Fishing Mortality

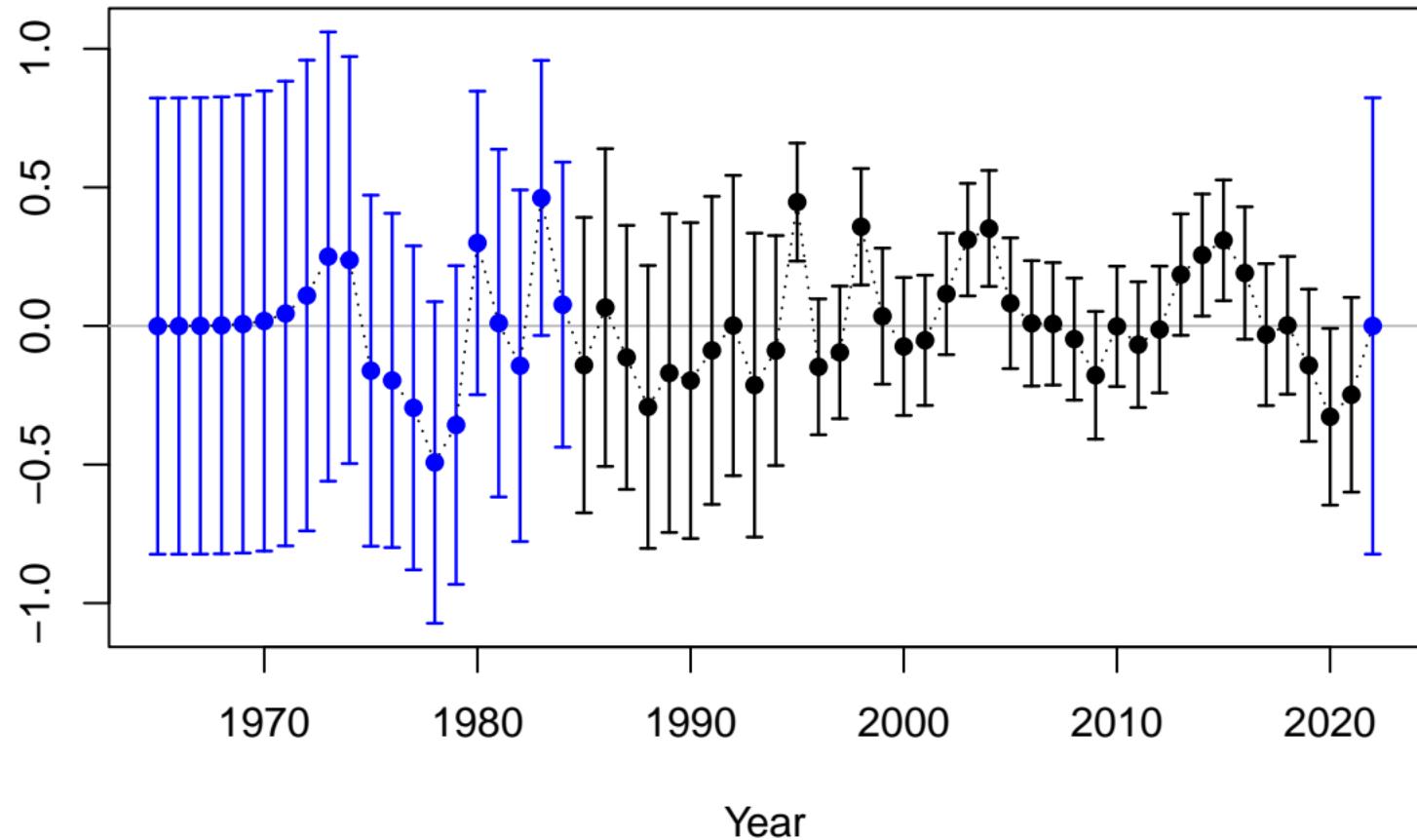




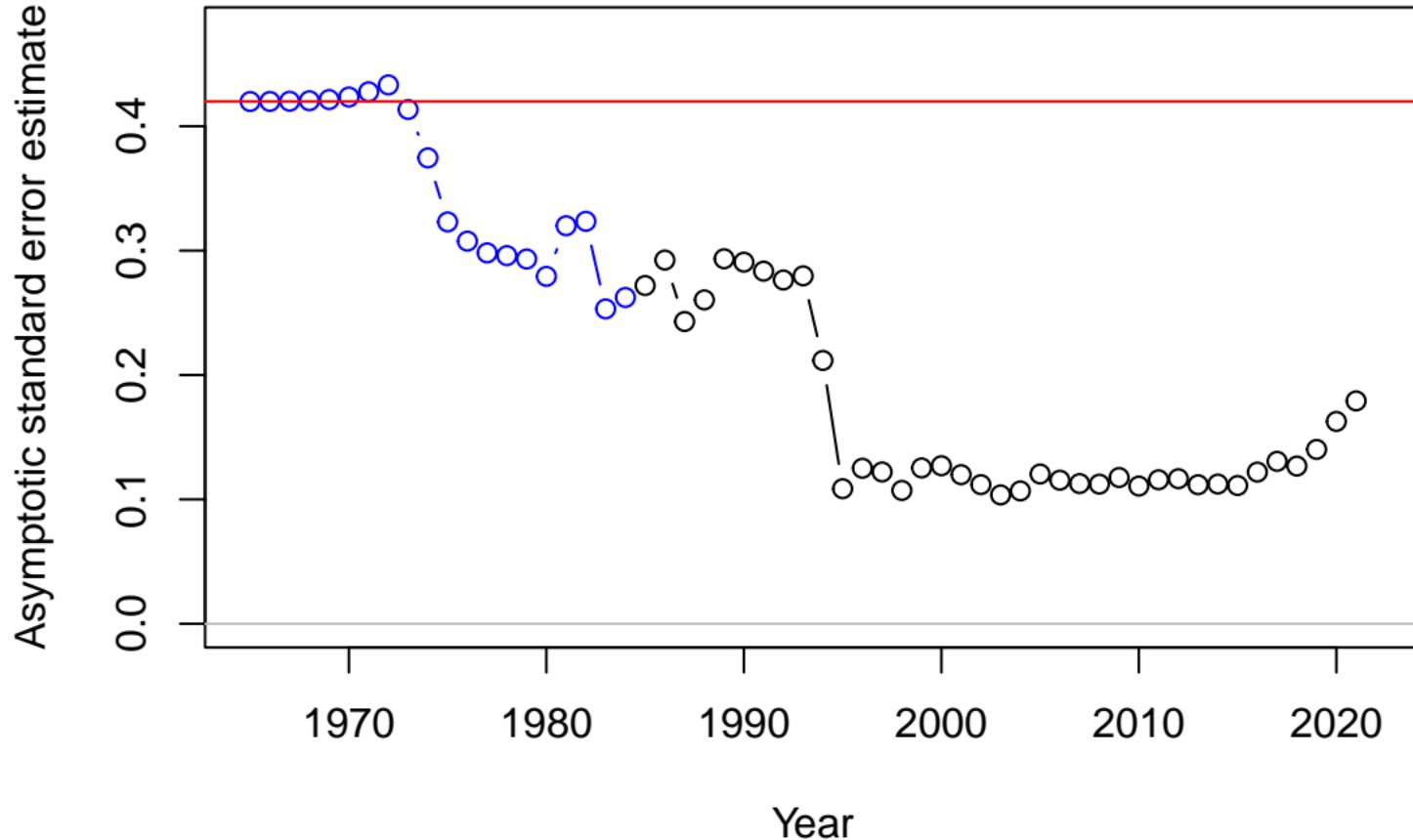
Log recruitment deviation

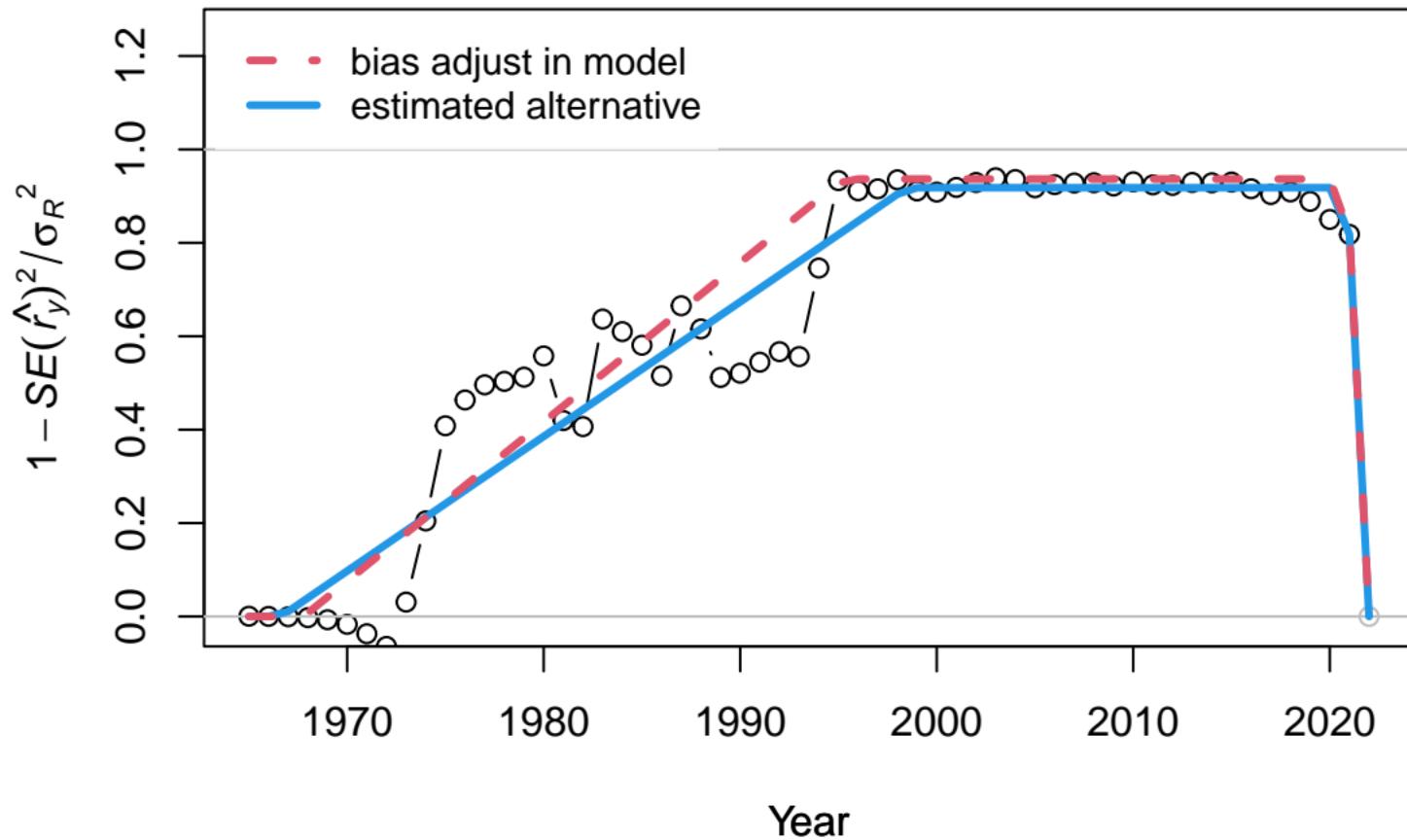


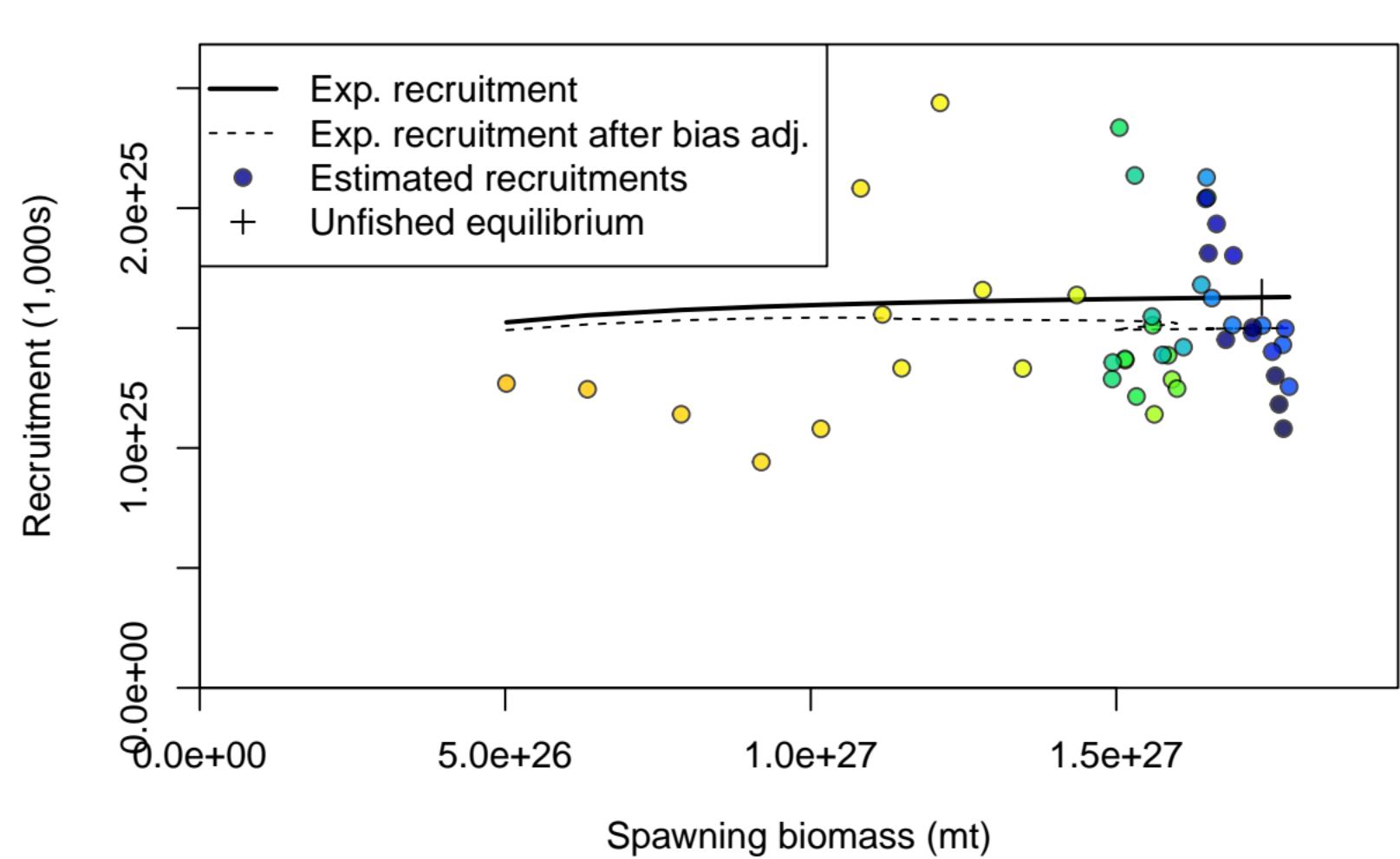
Log recruitment deviation

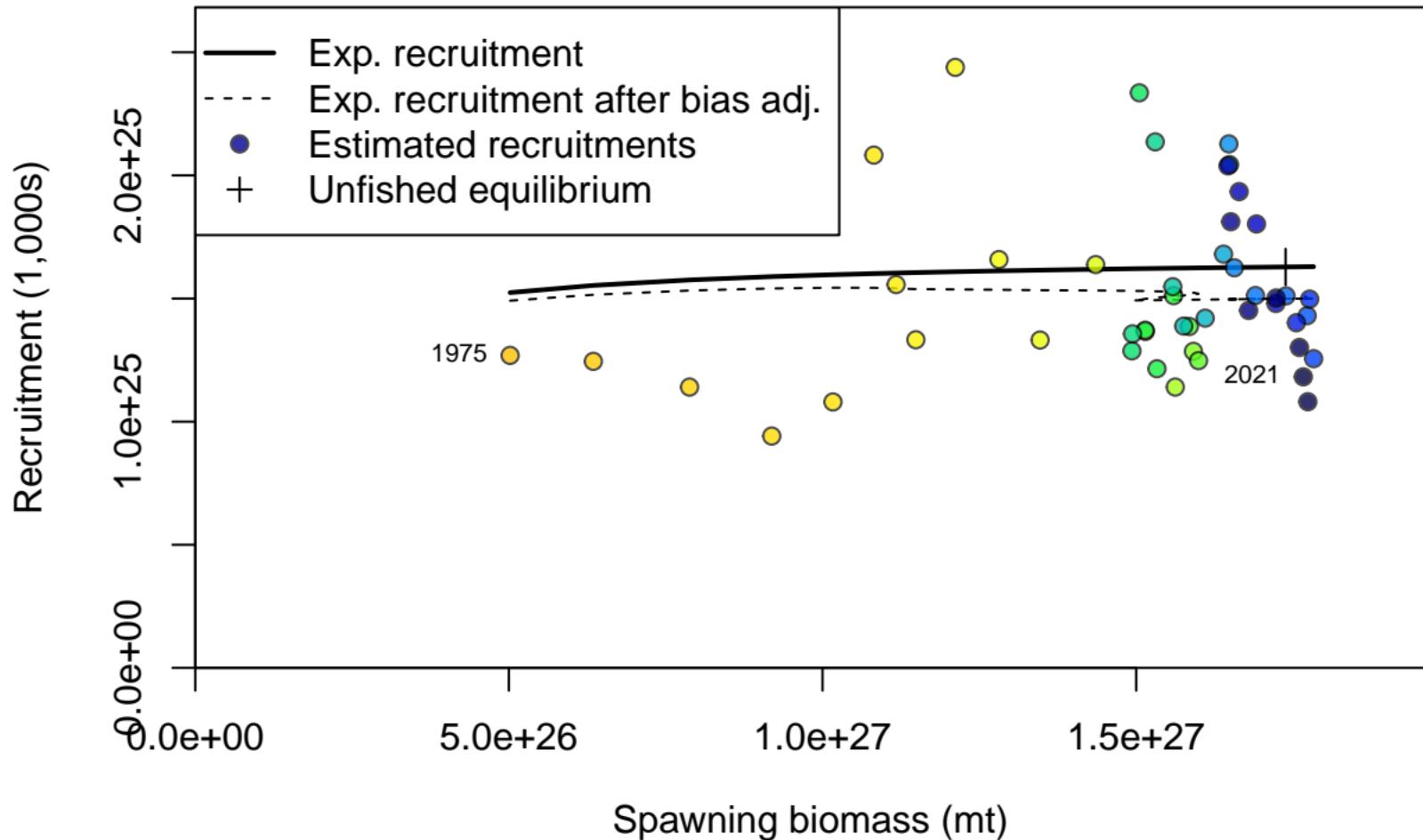


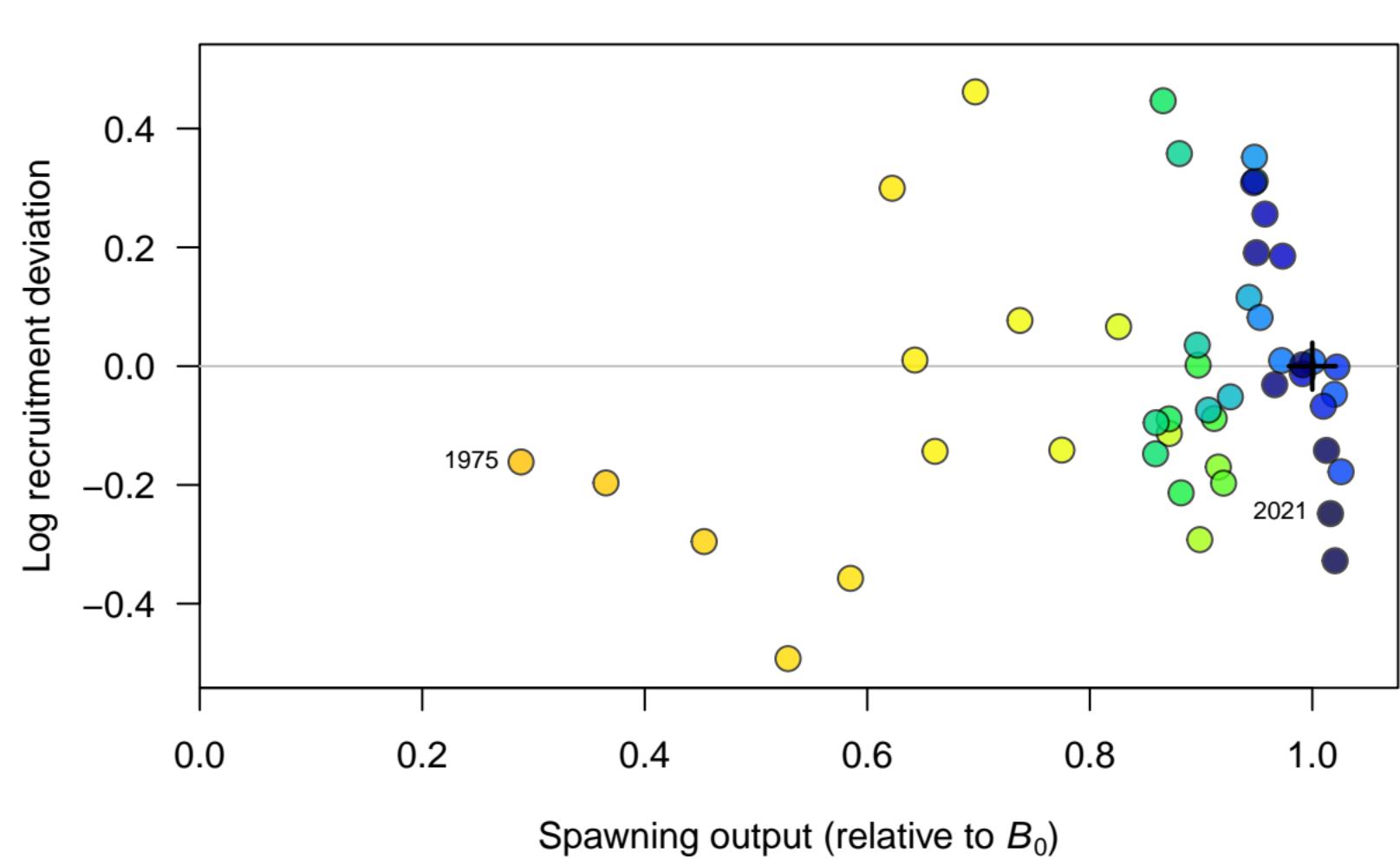
## Recruitment deviation variance

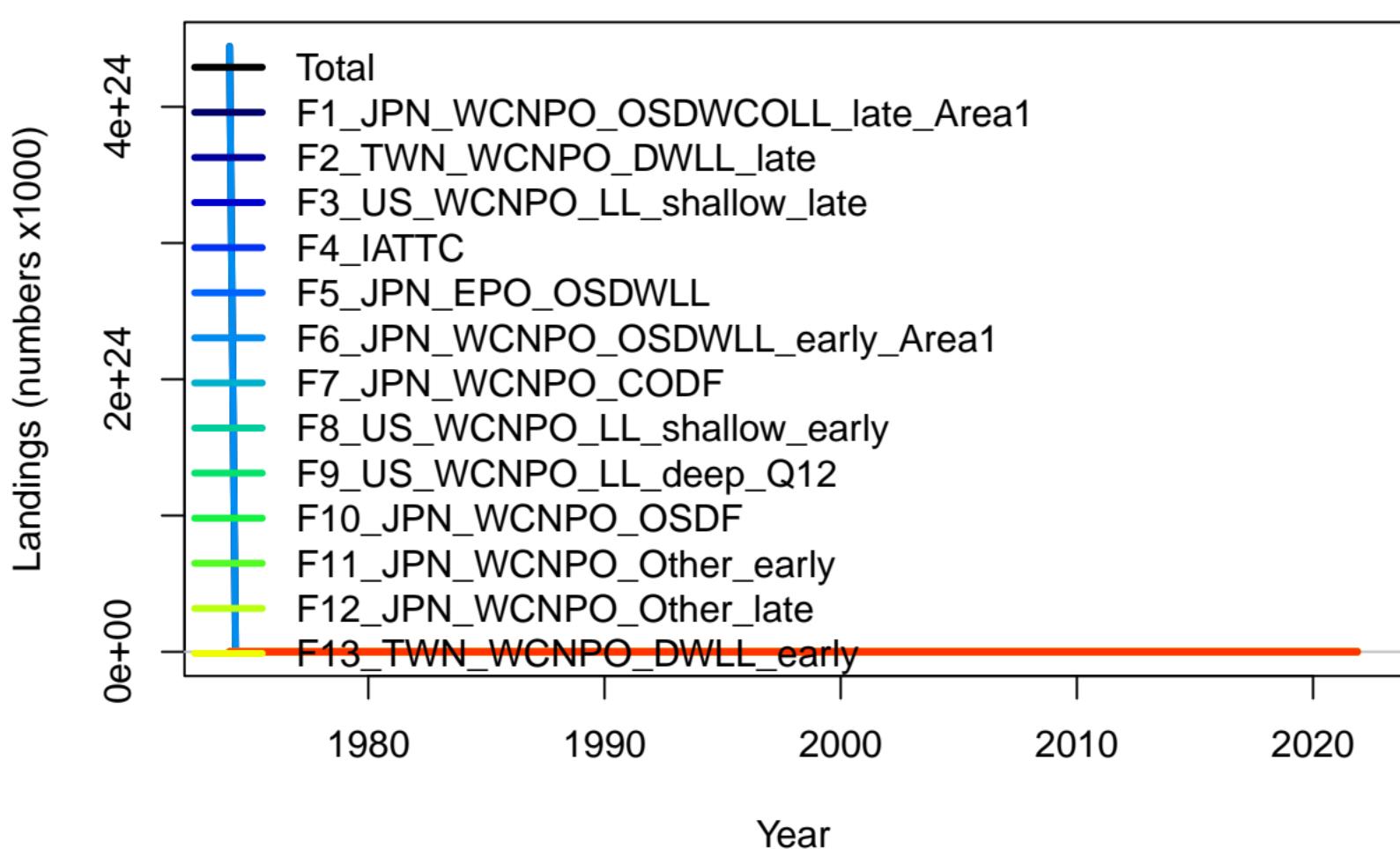


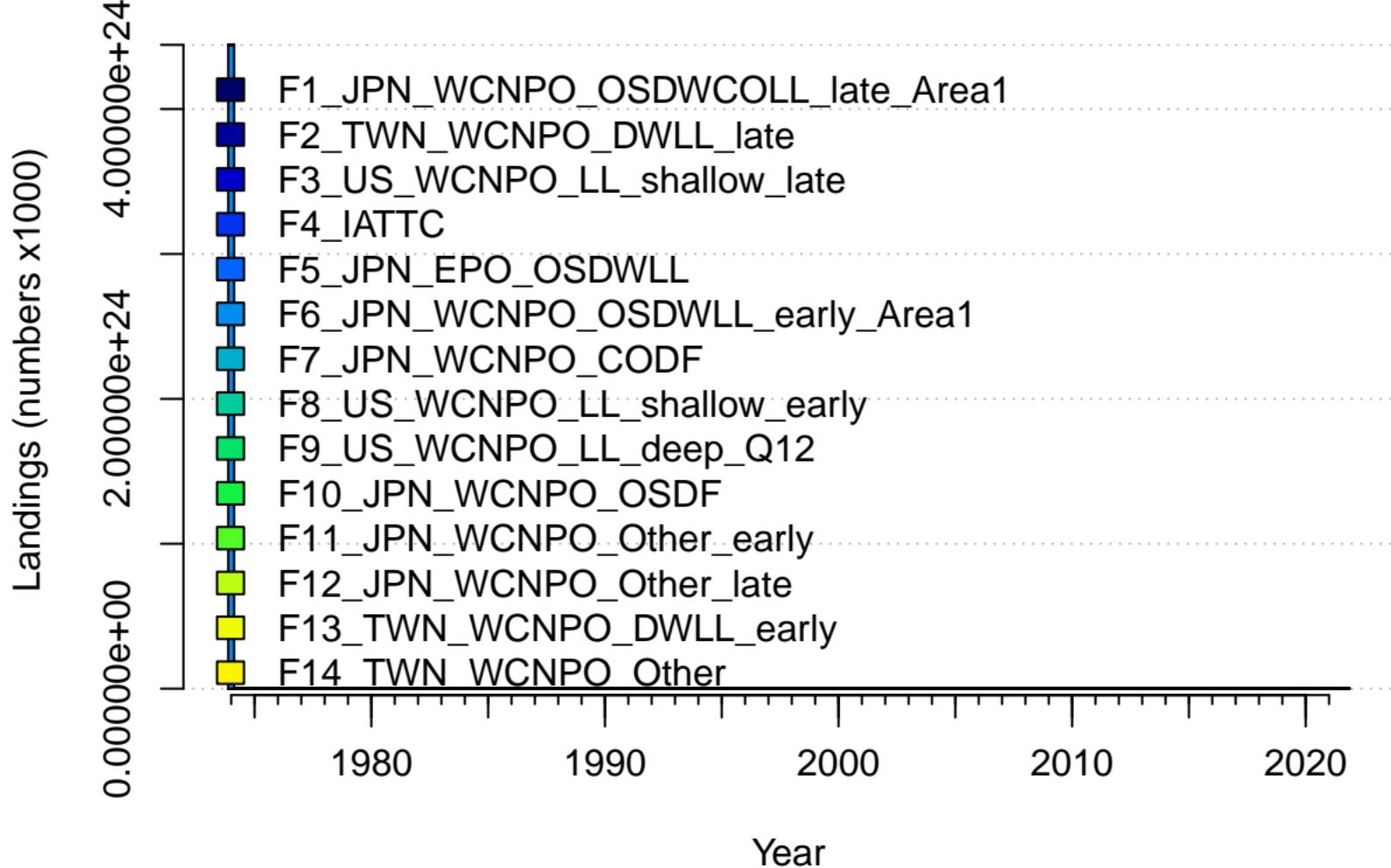


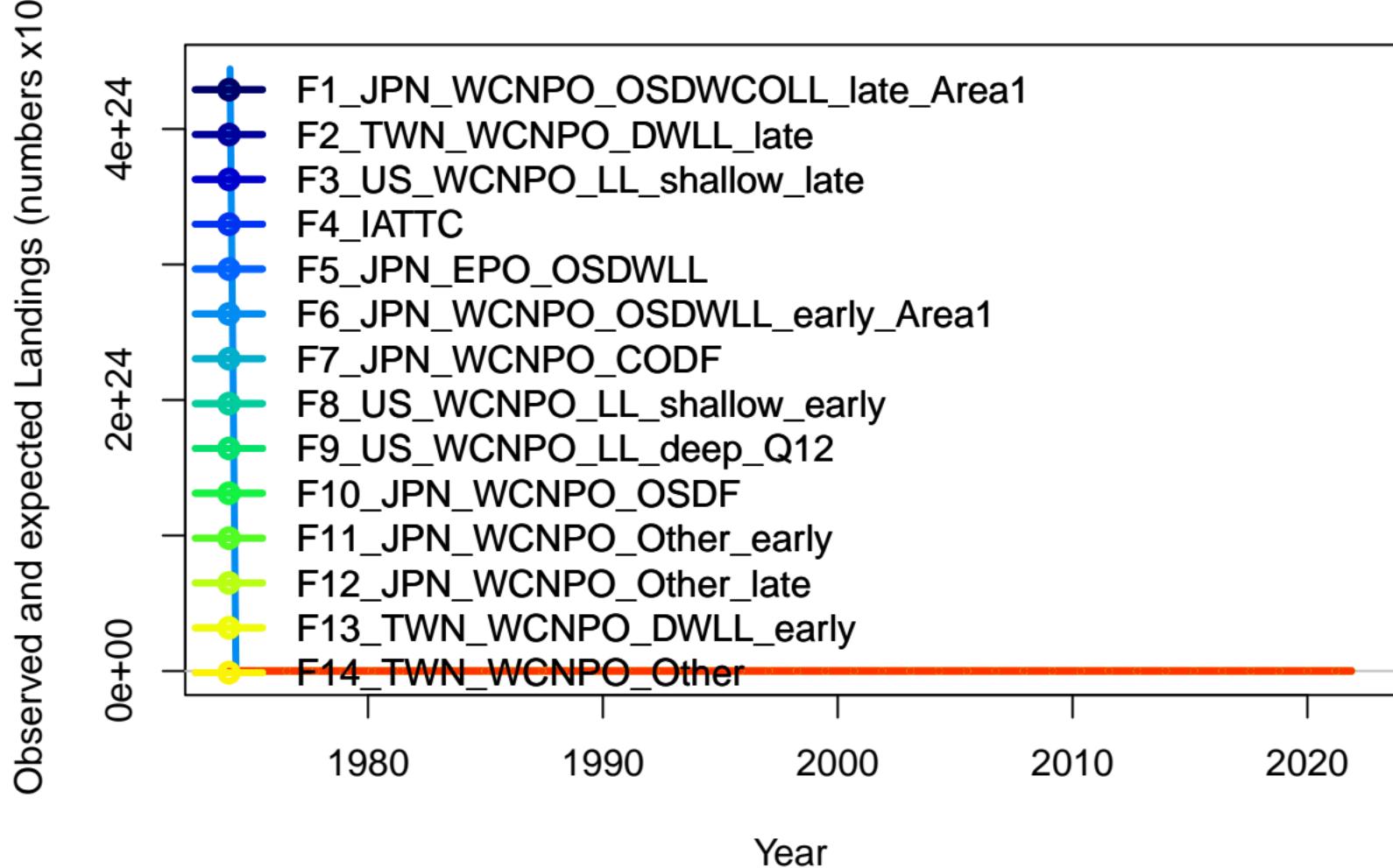


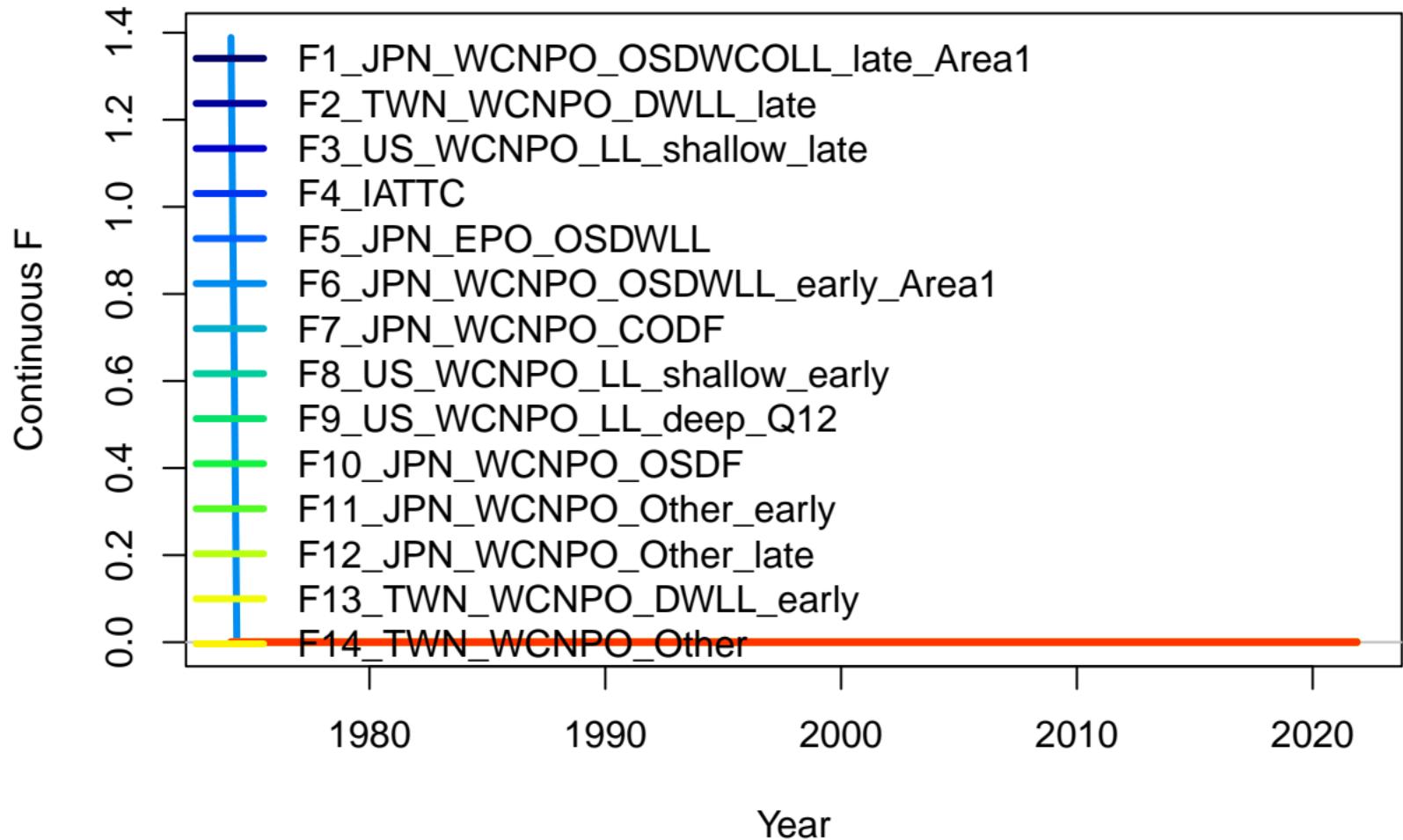


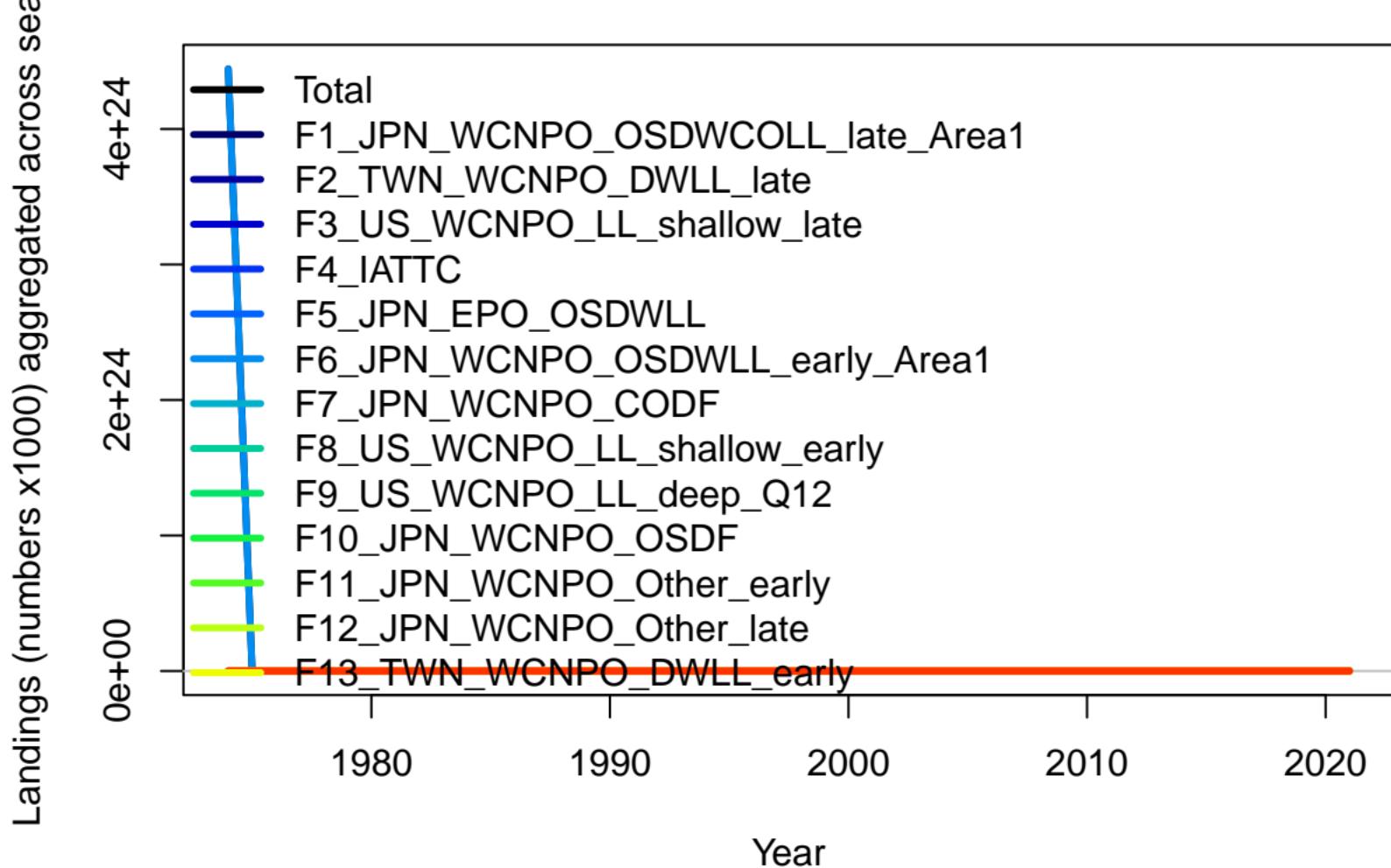


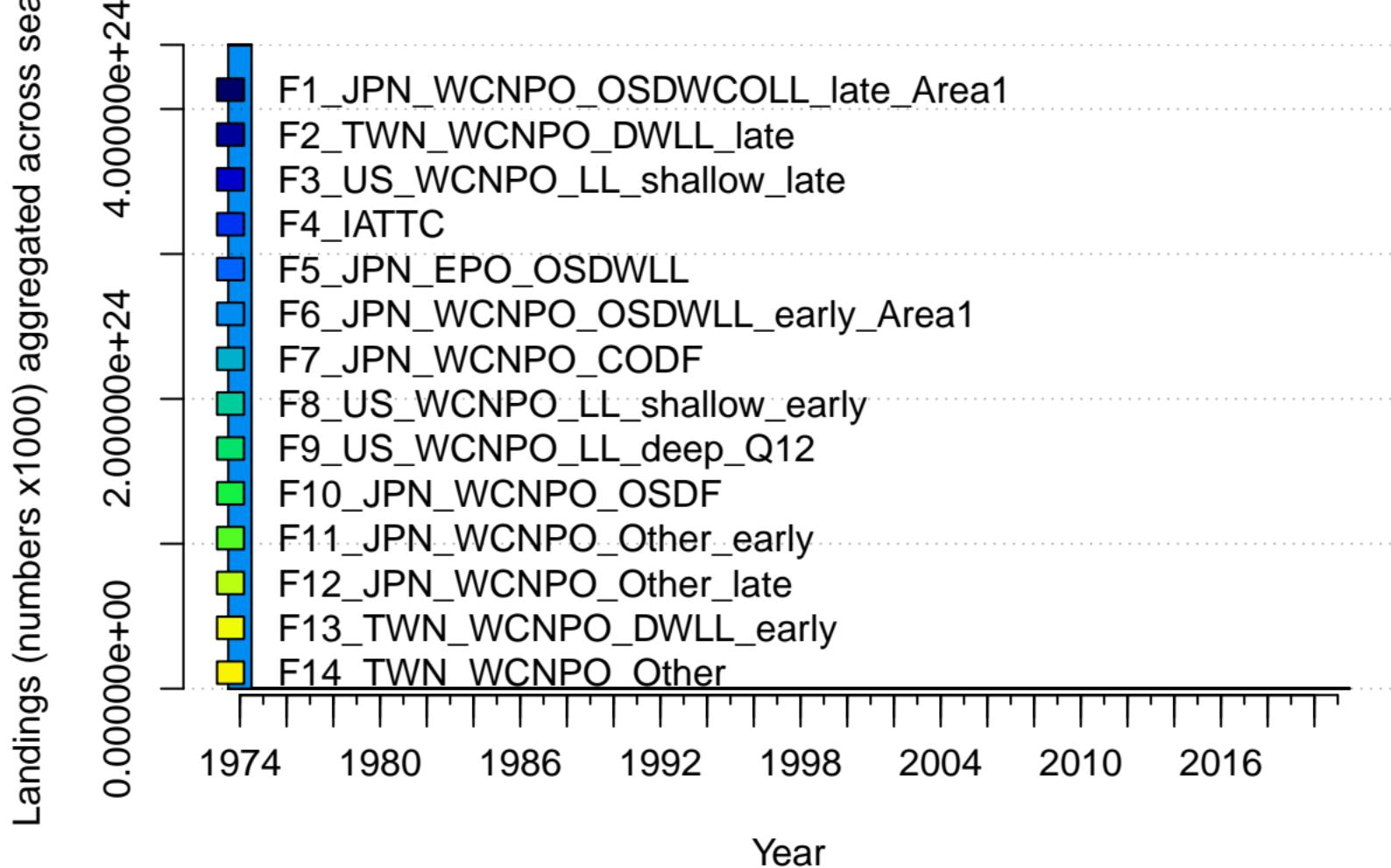


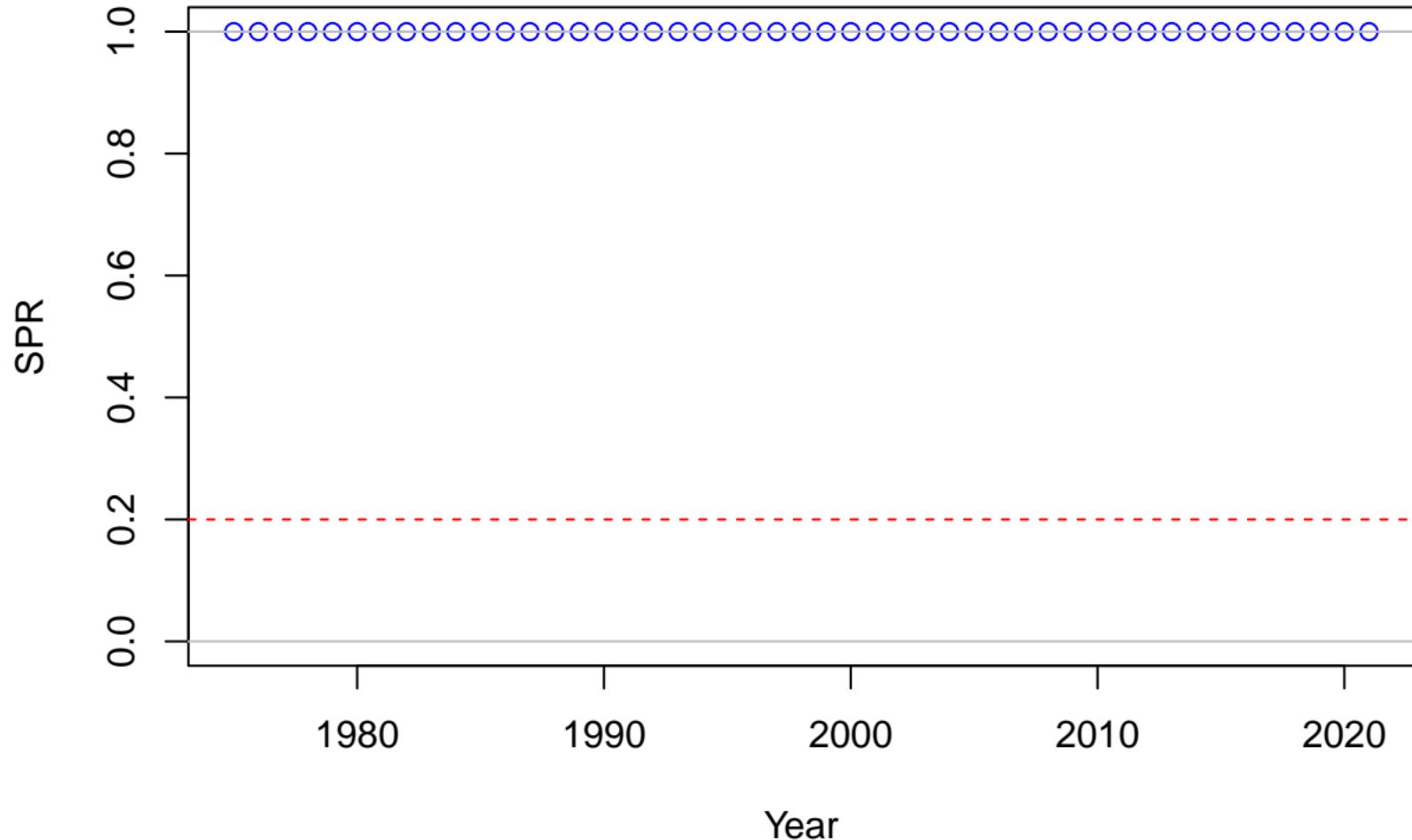




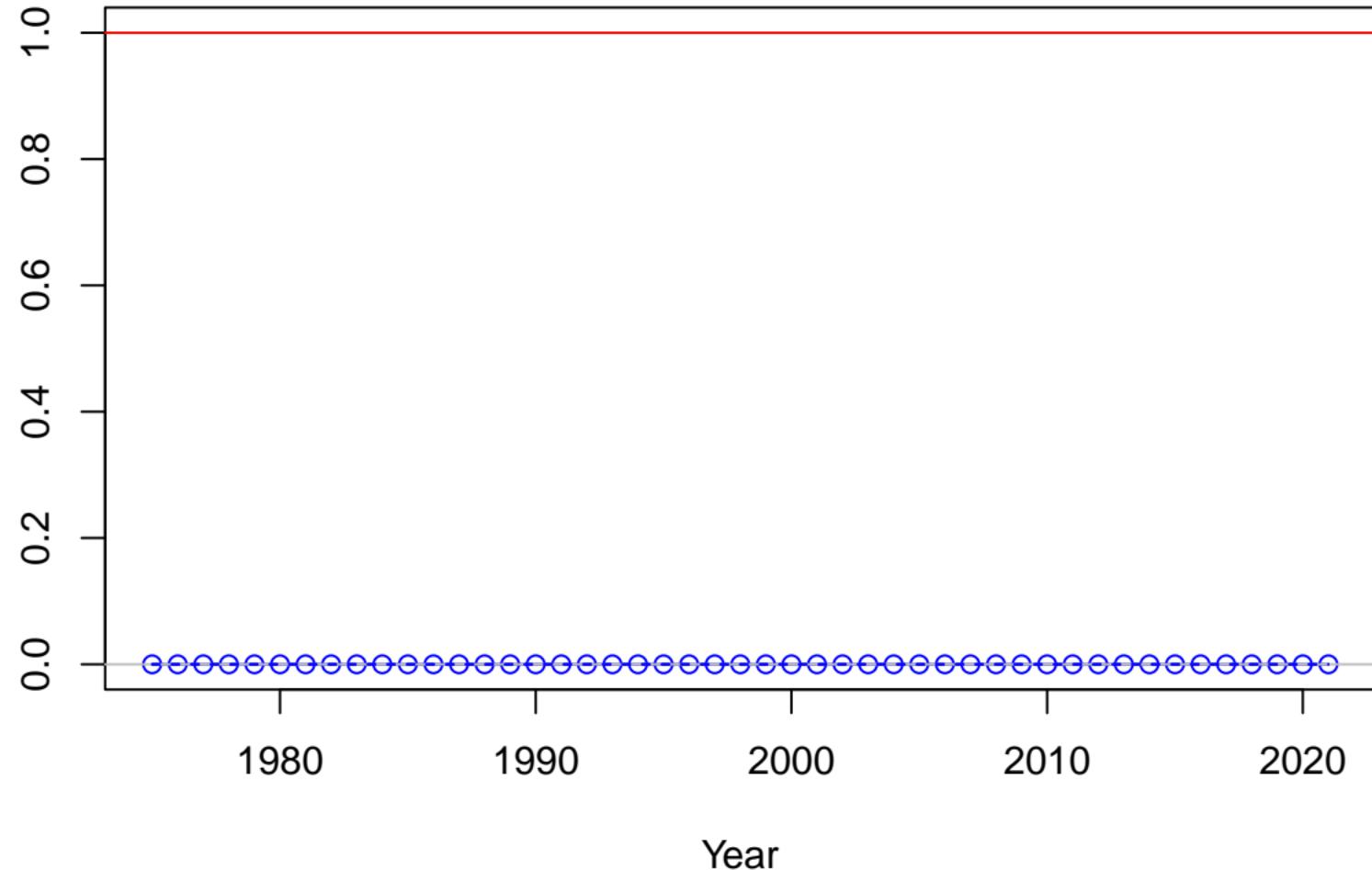




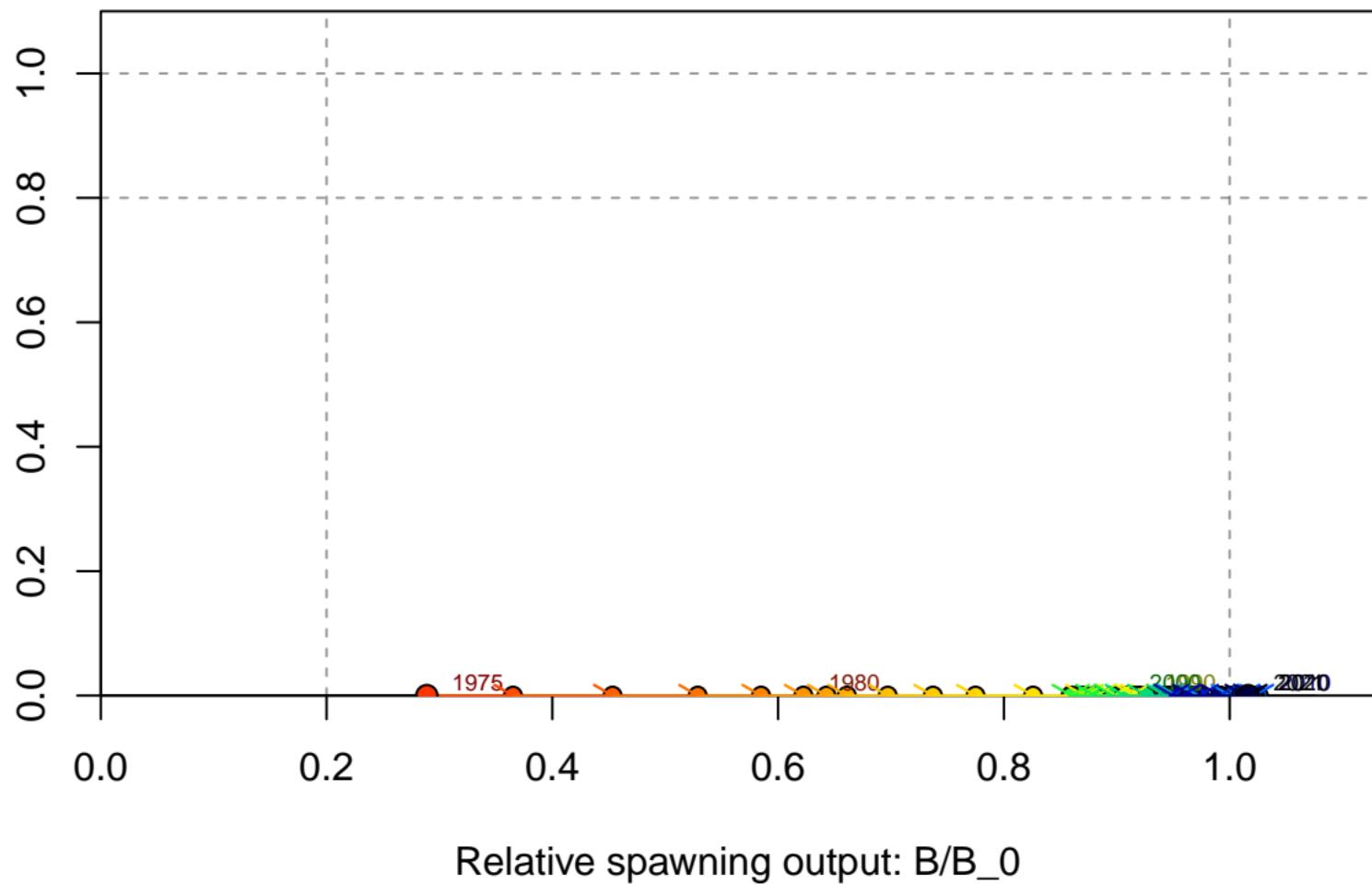


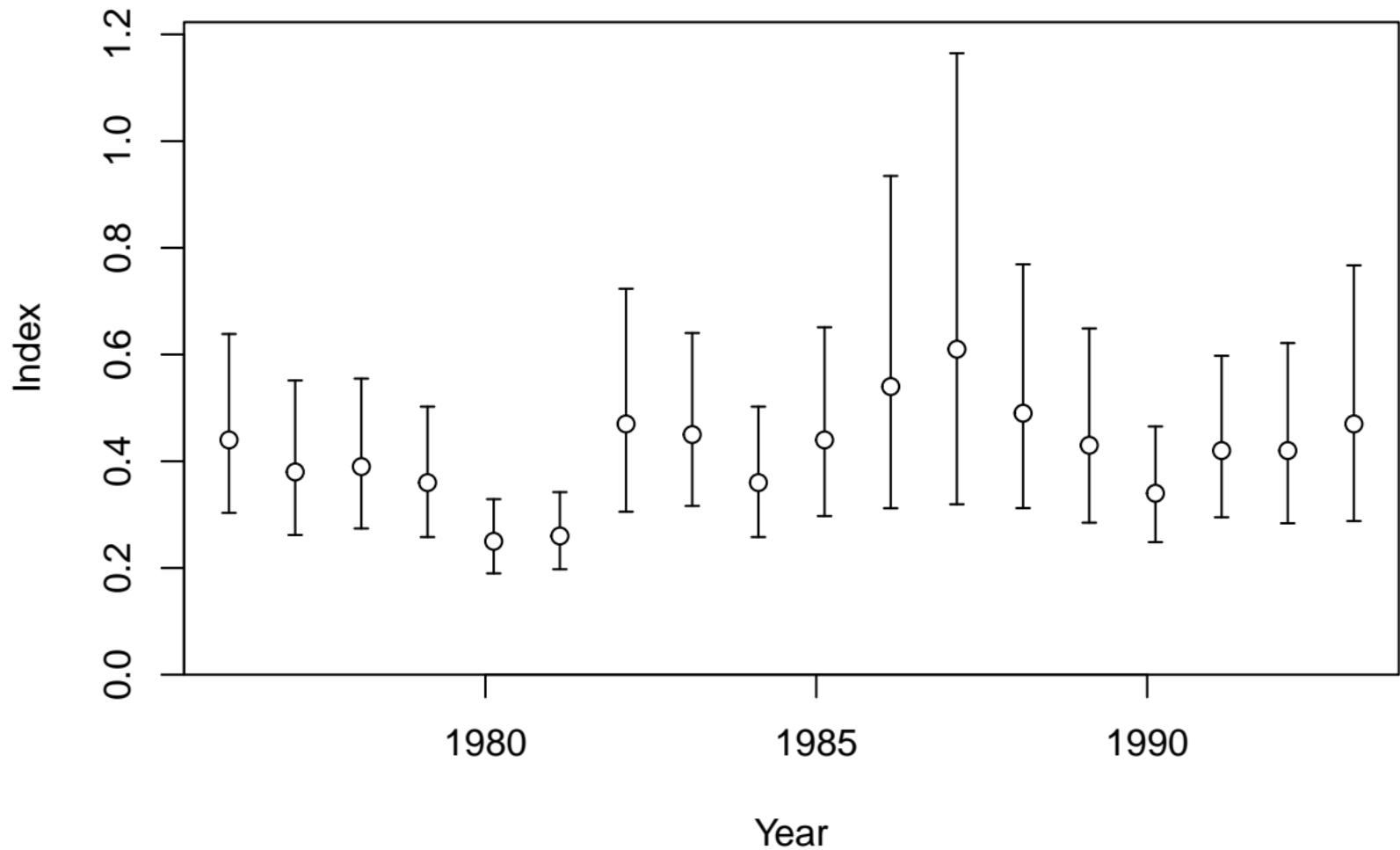


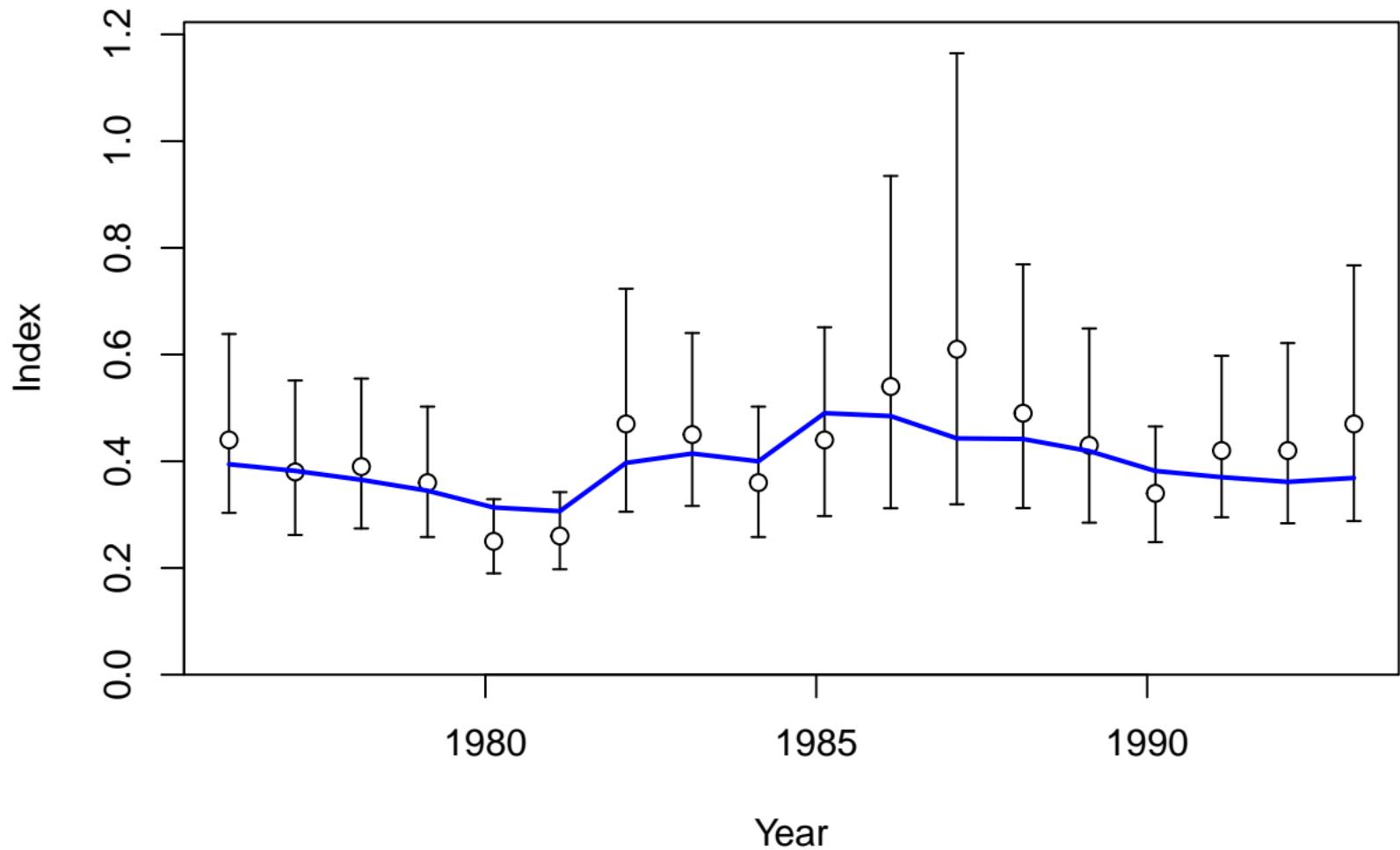
Fishing intensity: 1-SPR

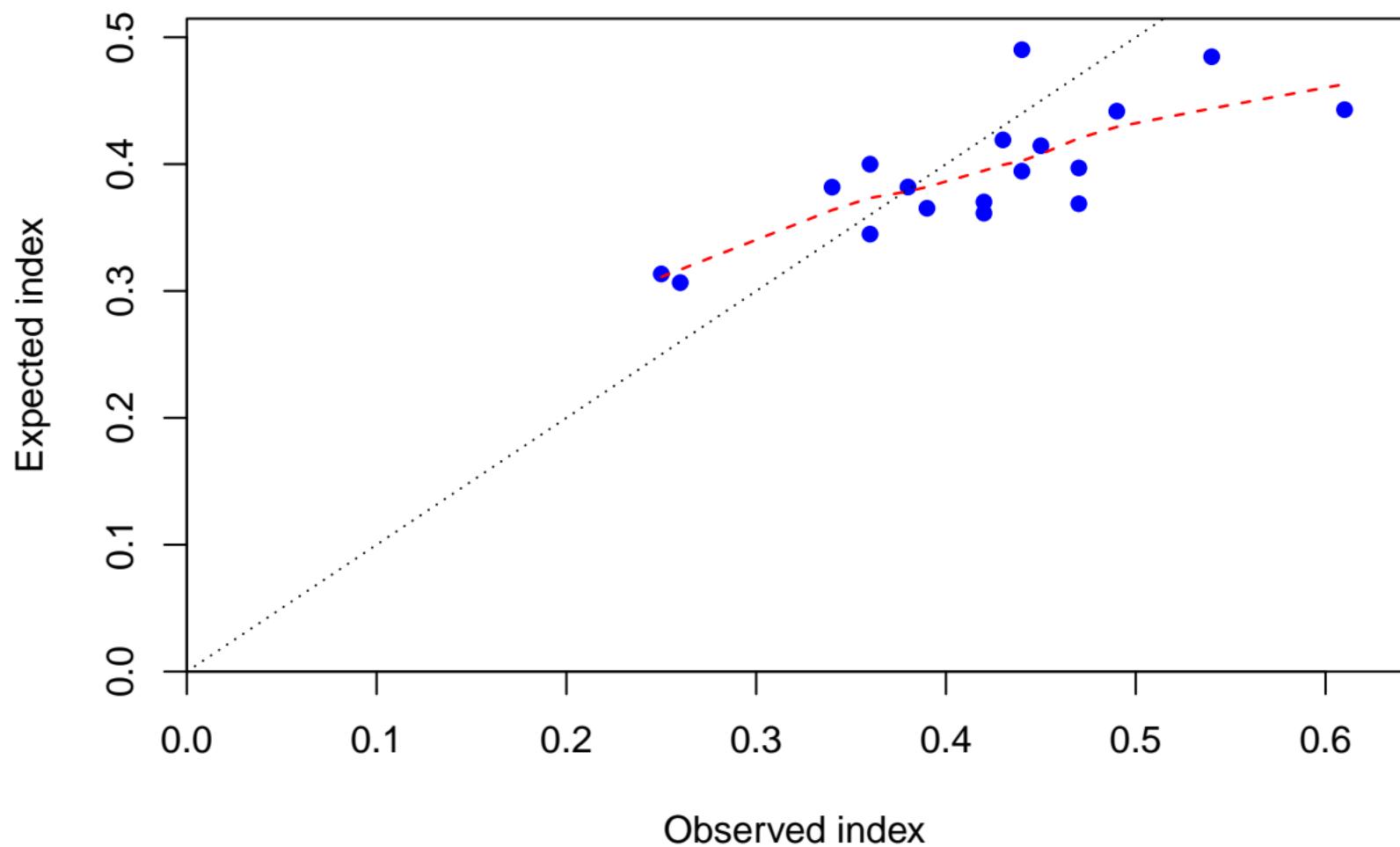


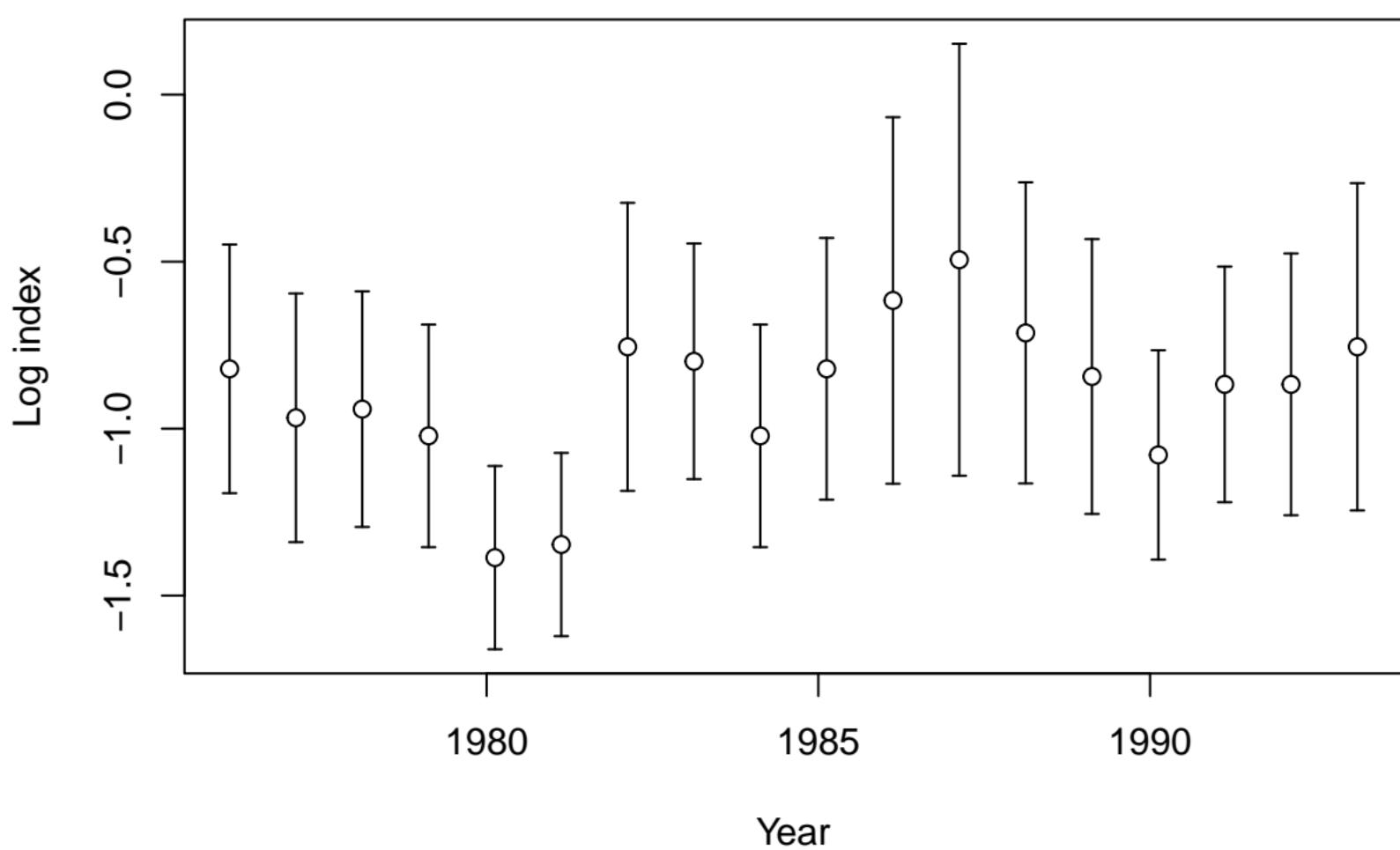
Fishing intensity: 1-SPR

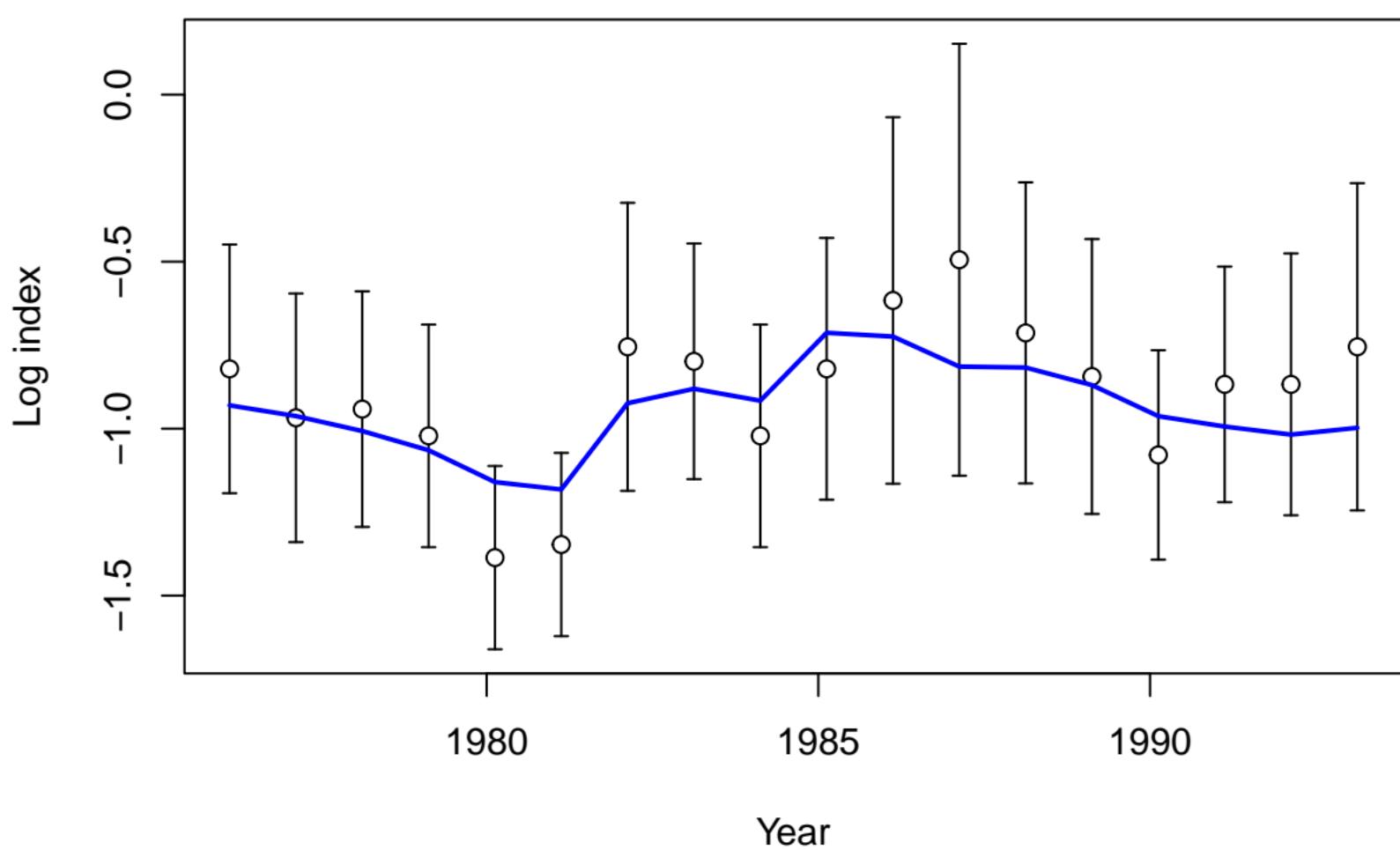


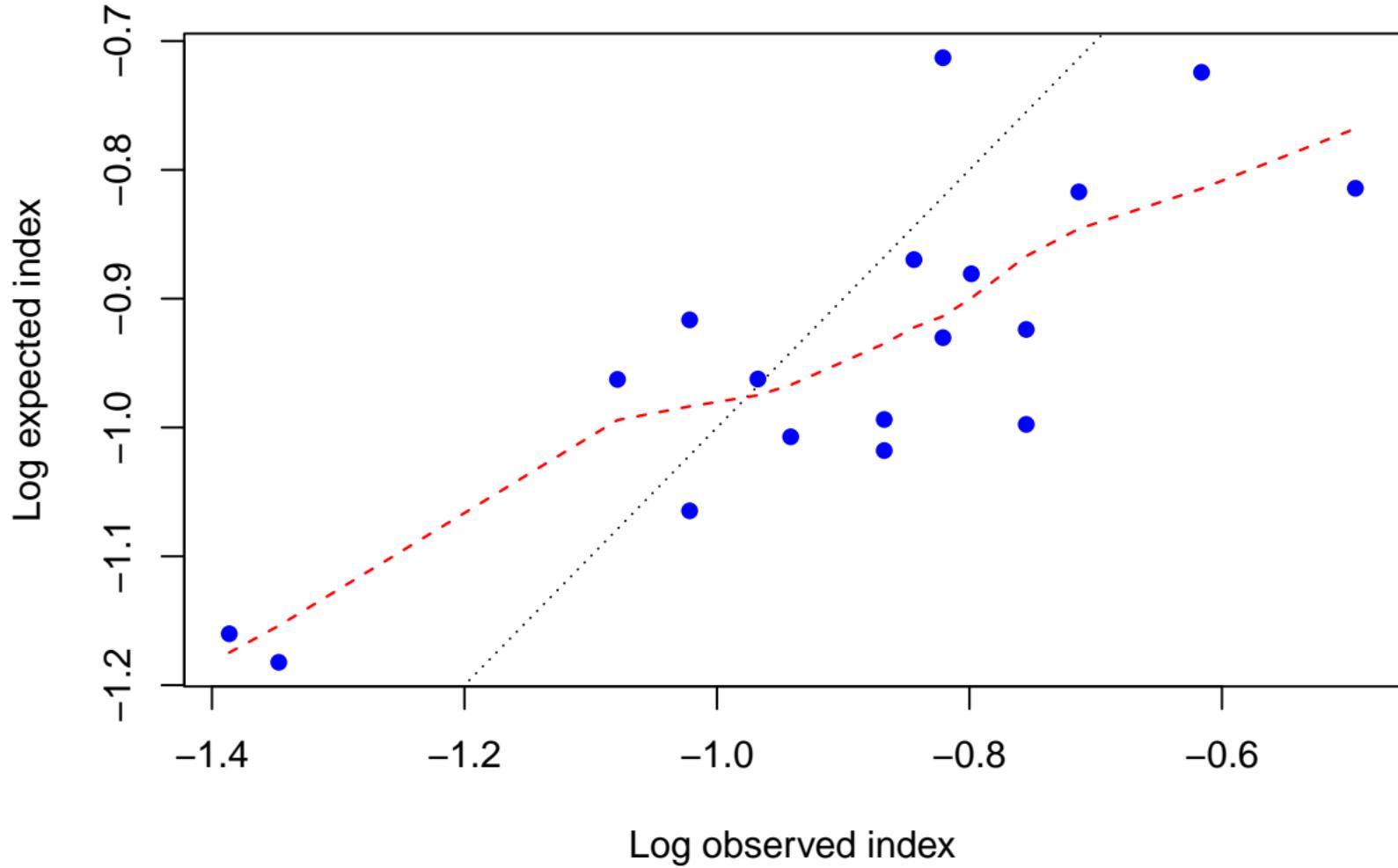


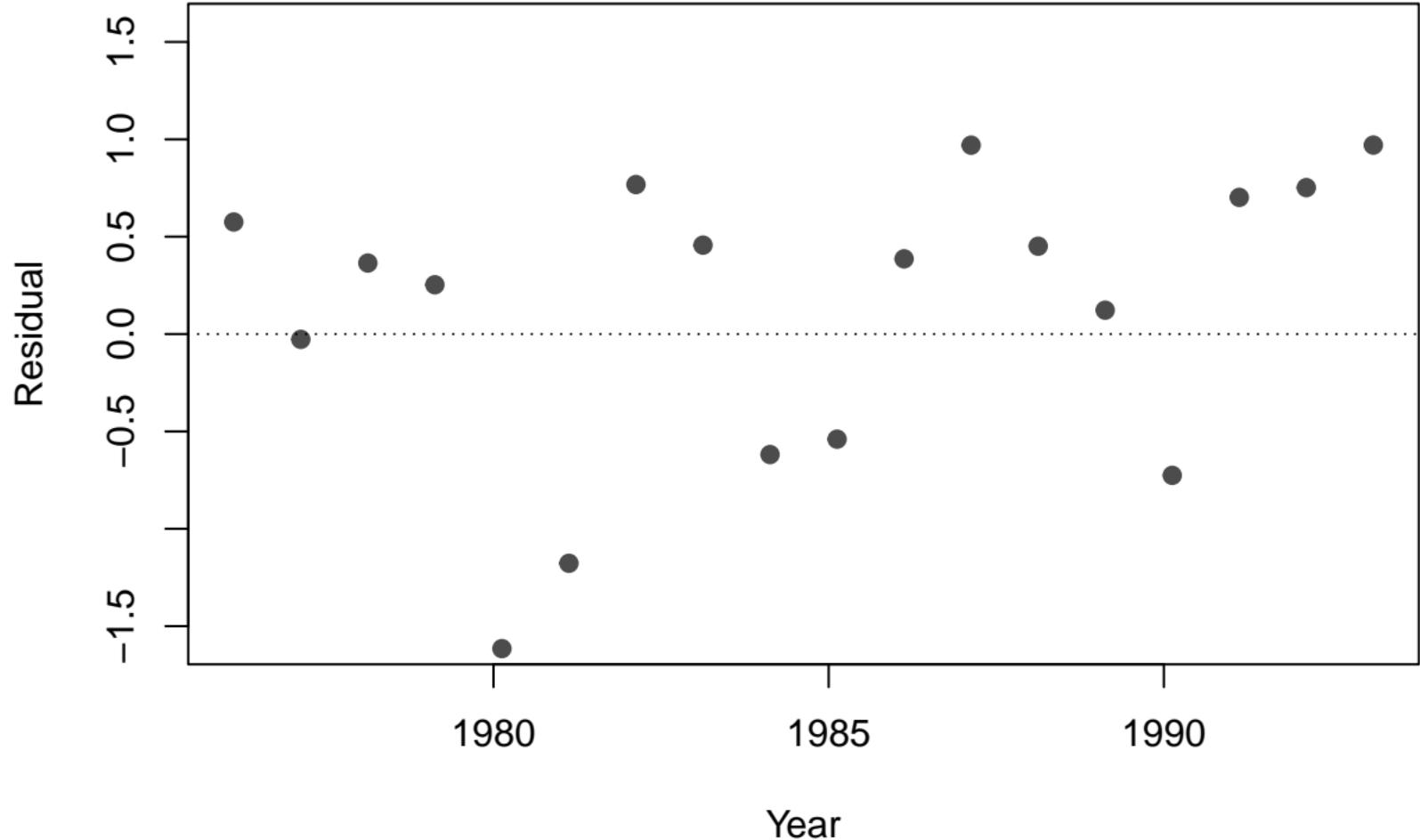


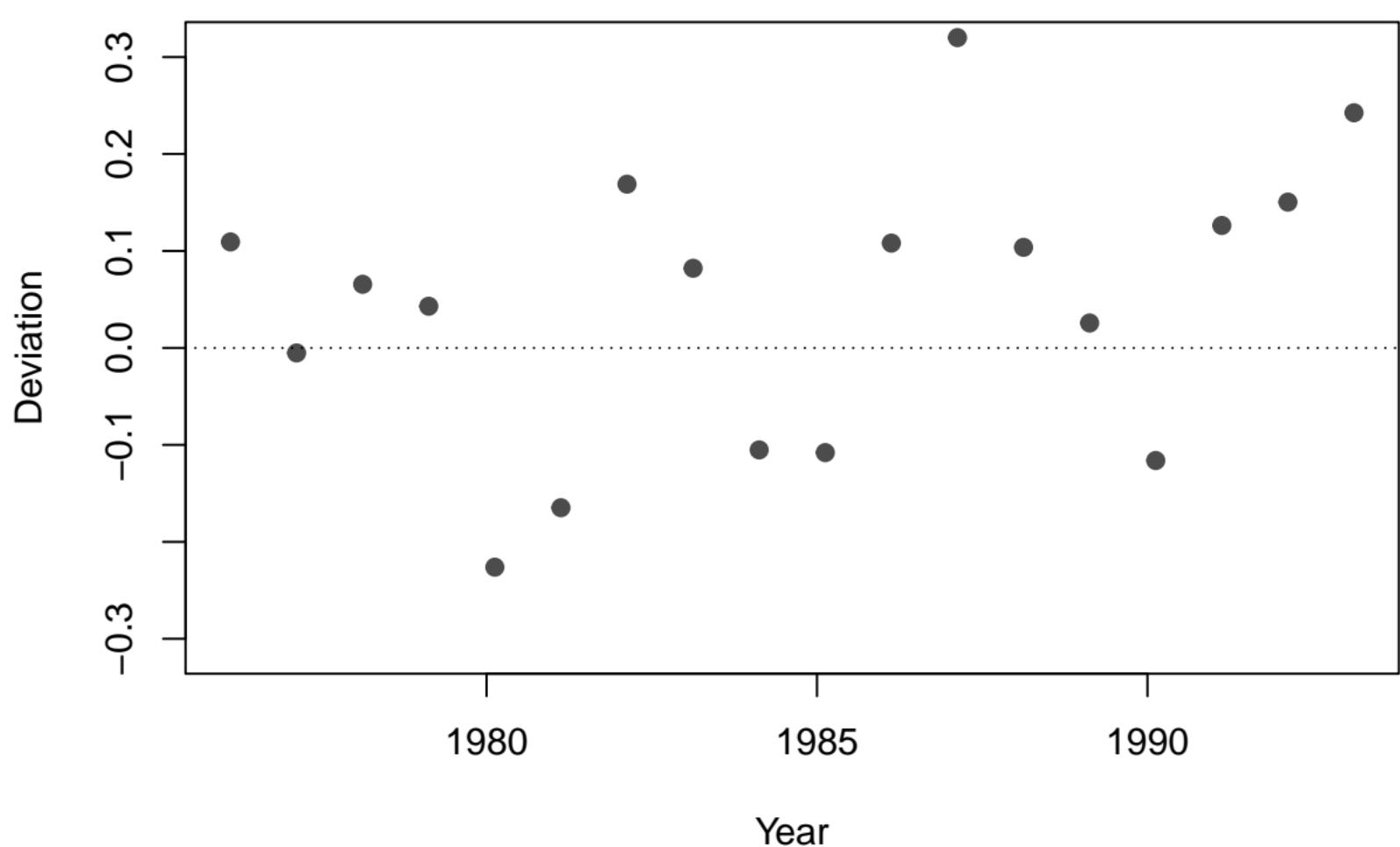


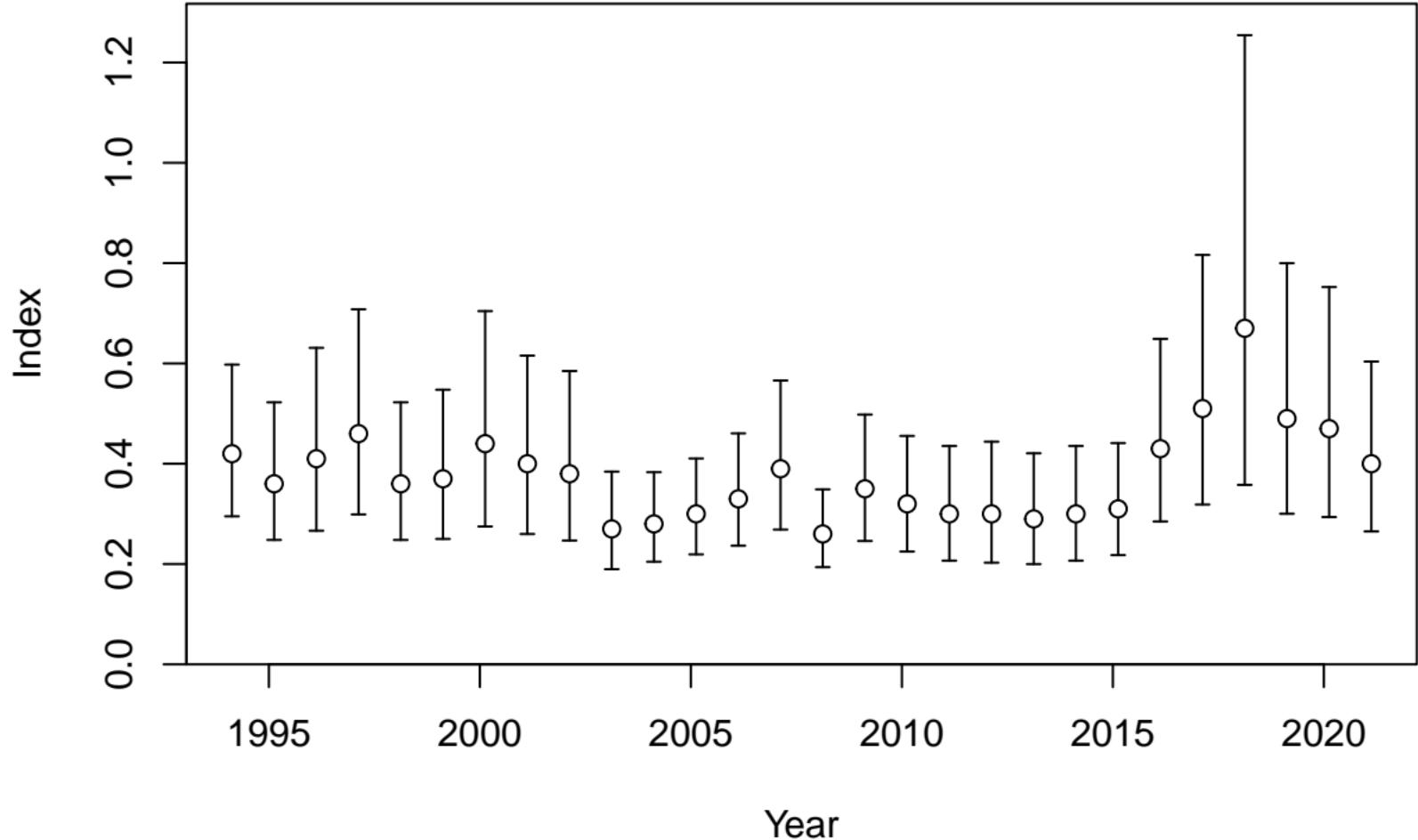


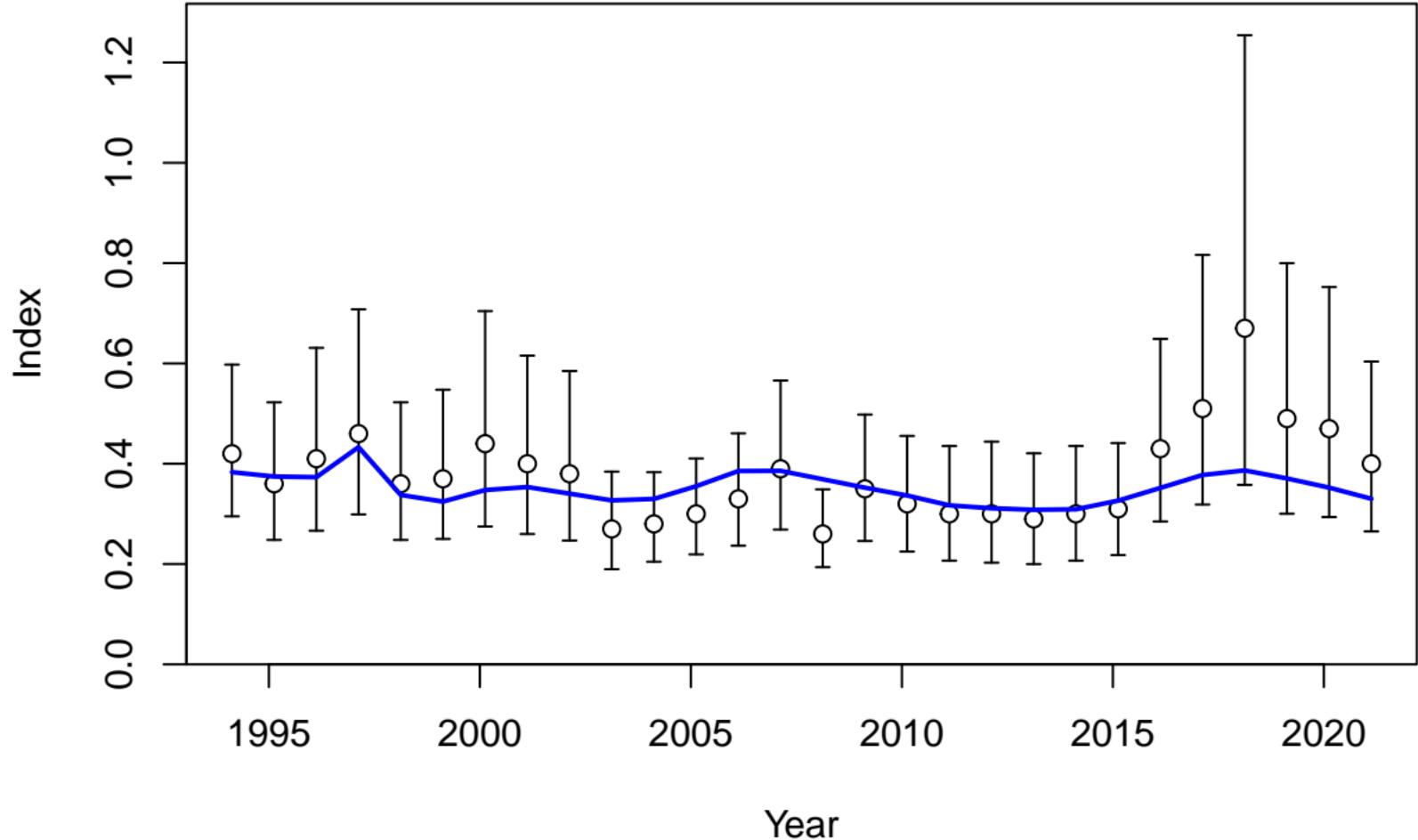










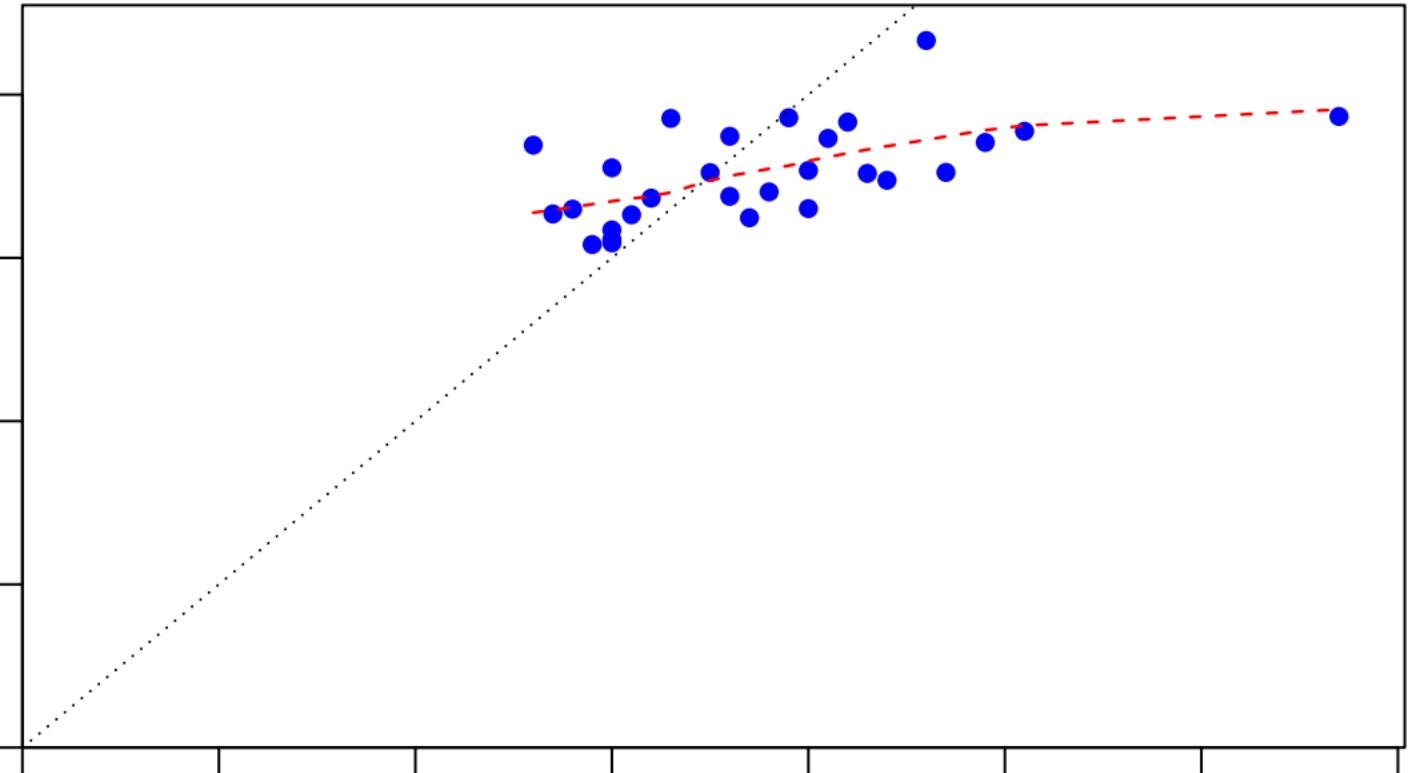


Expected index

0.4  
0.3  
0.2  
0.1  
0.0

0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7

Observed index

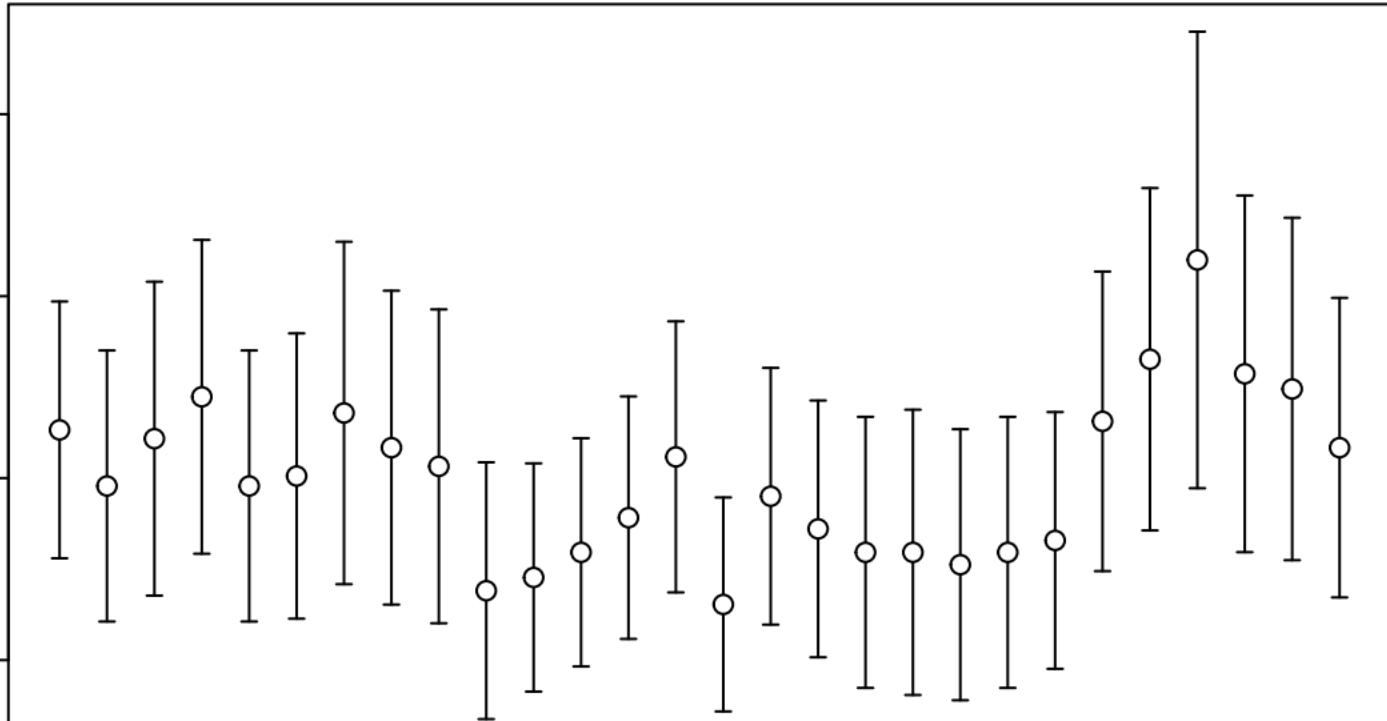


Log index

-1.5 -1.0 -0.5 0.0

1995 2000 2005 2010 2015 2020

Year

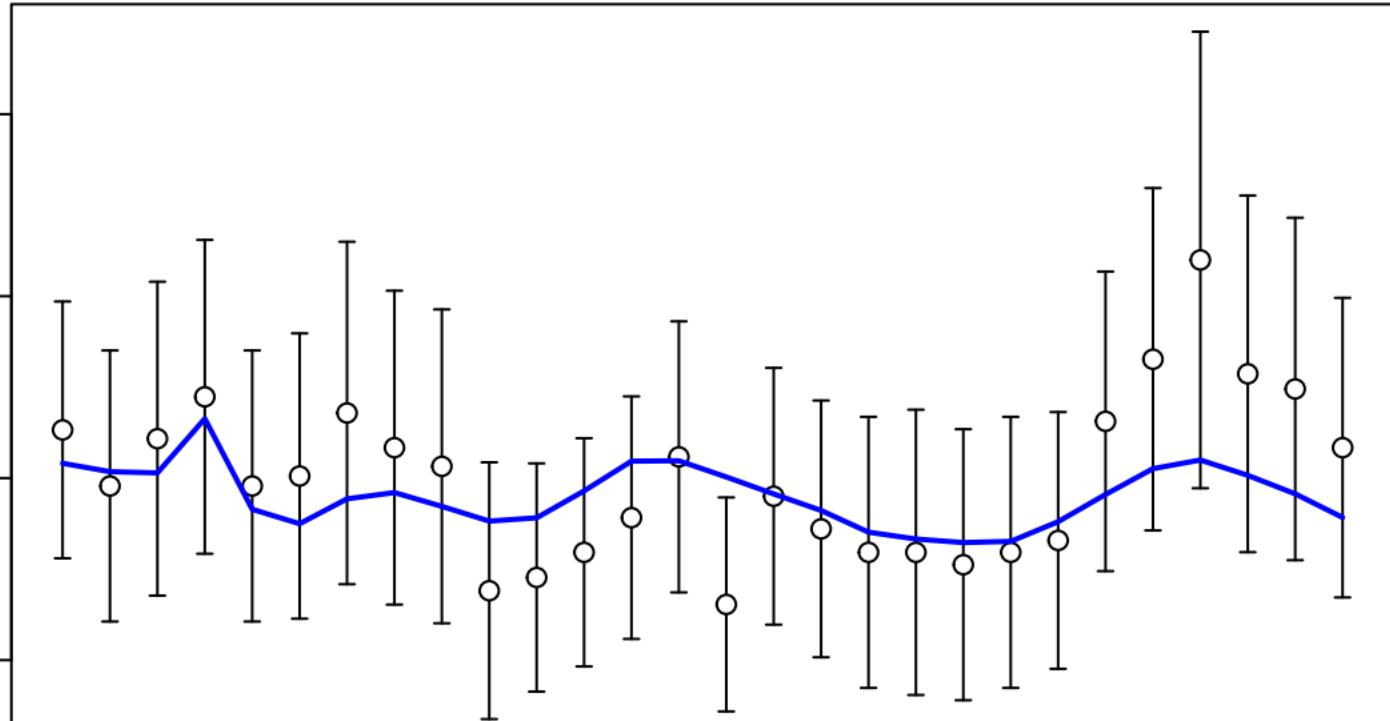


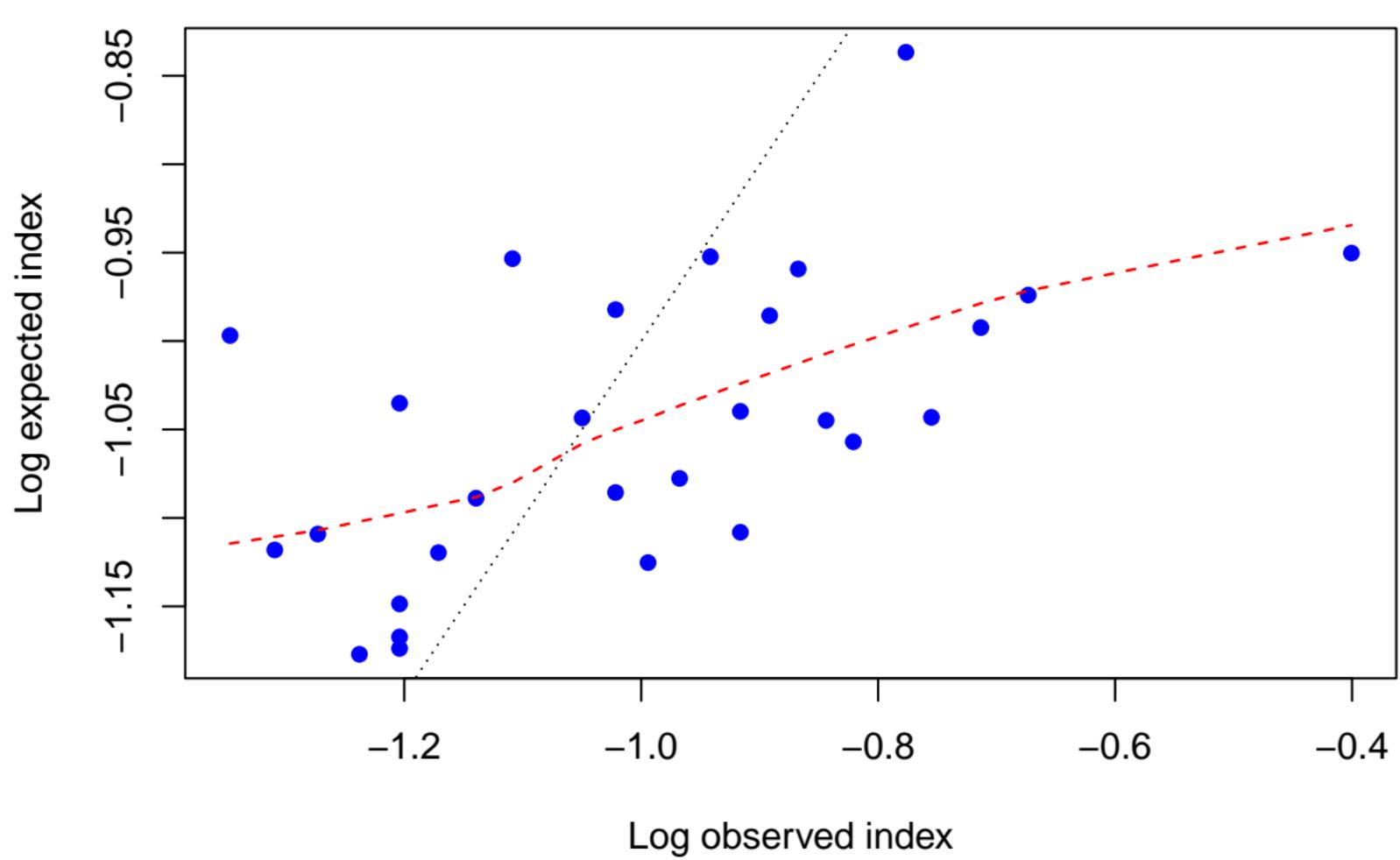
Log index

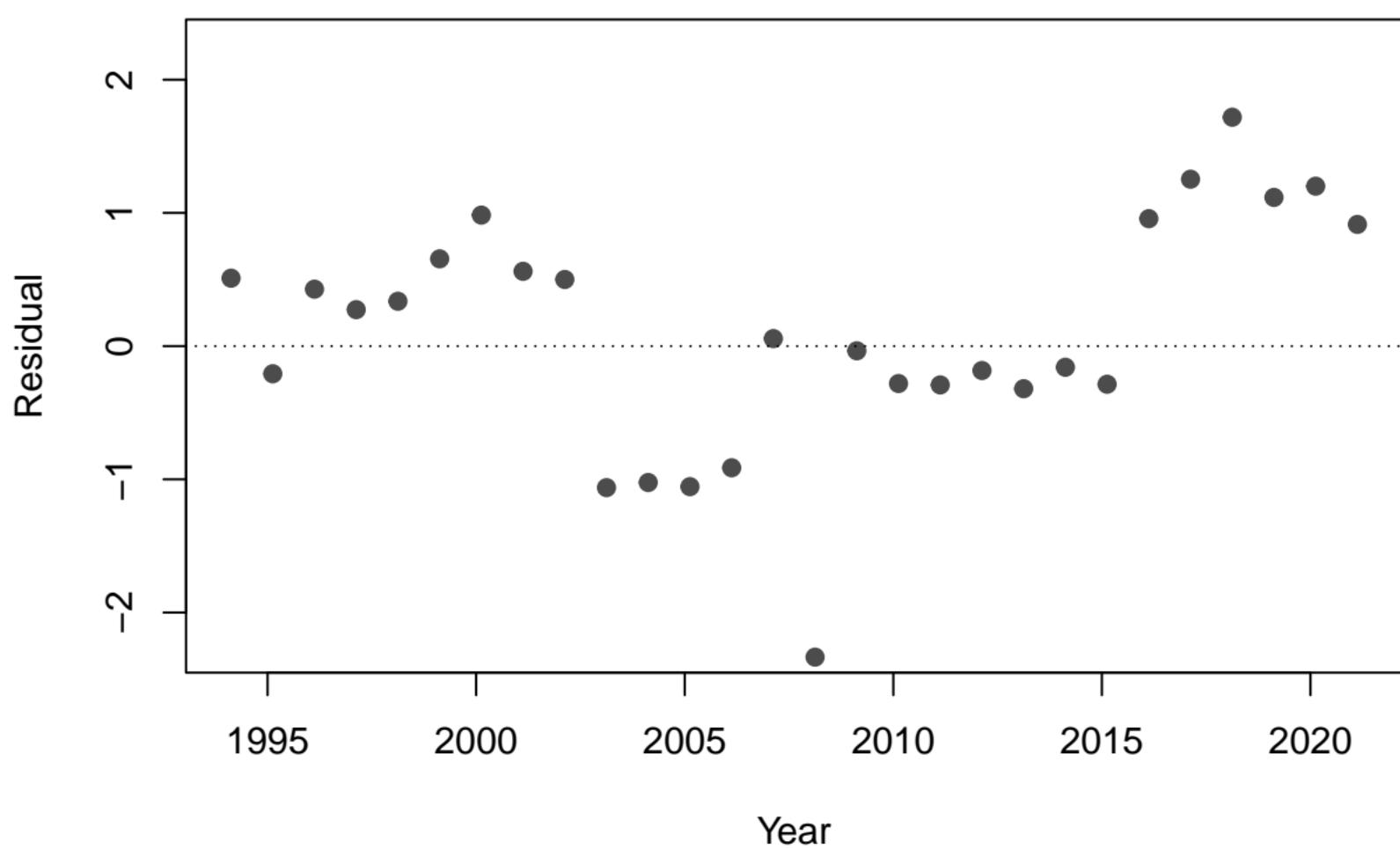
-1.5 -1.0 -0.5 0.0

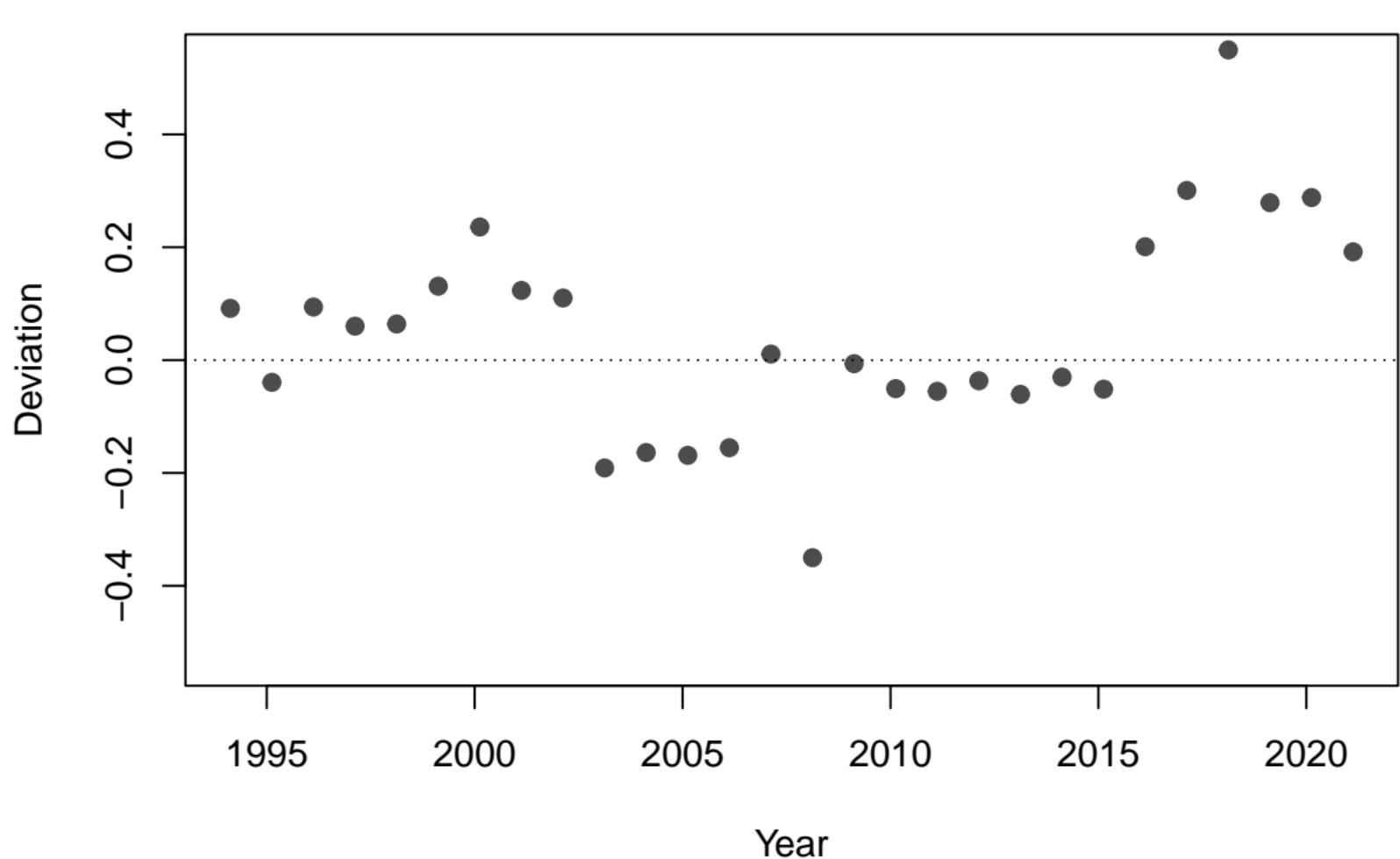
1995 2000 2005 2010 2015 2020

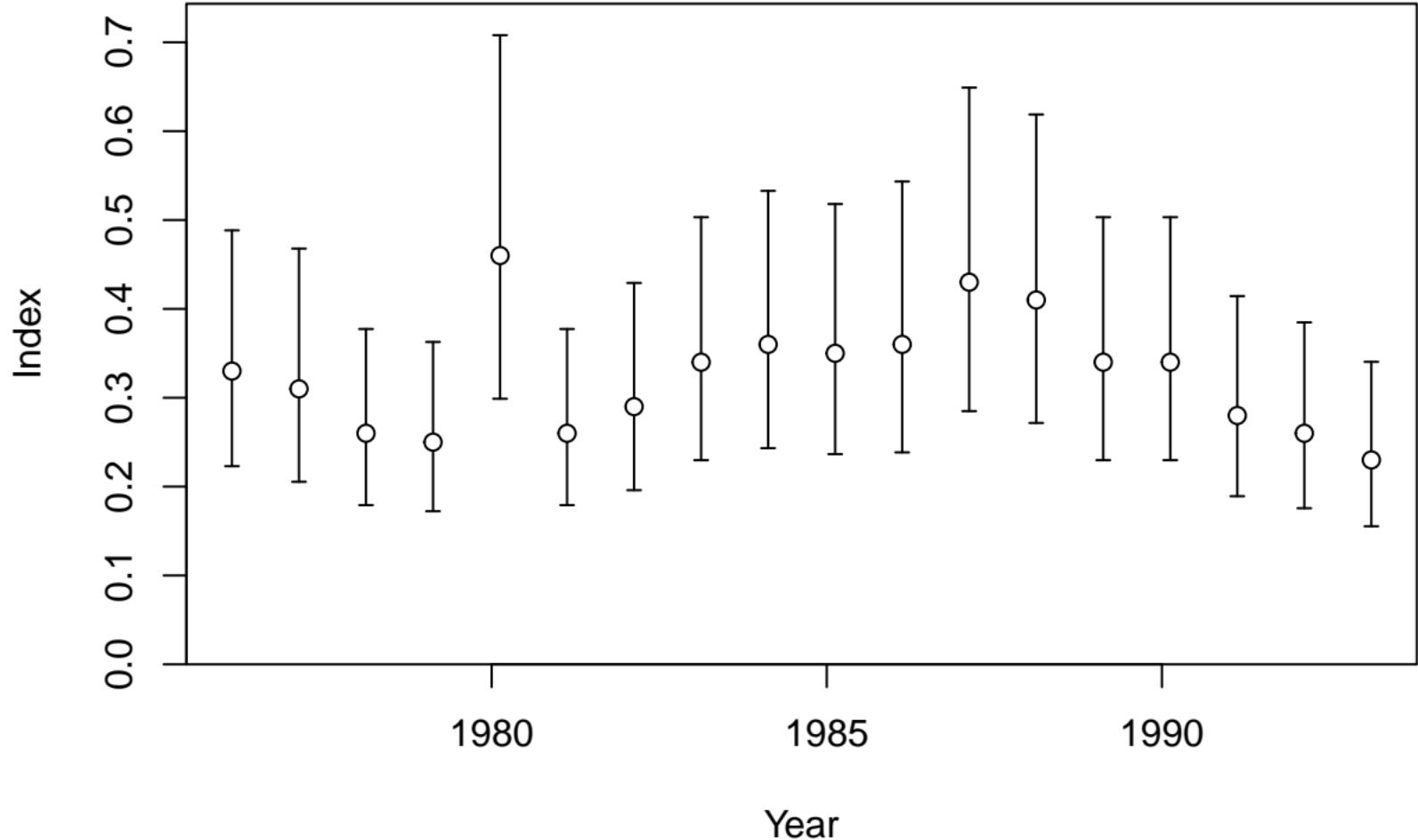
Year

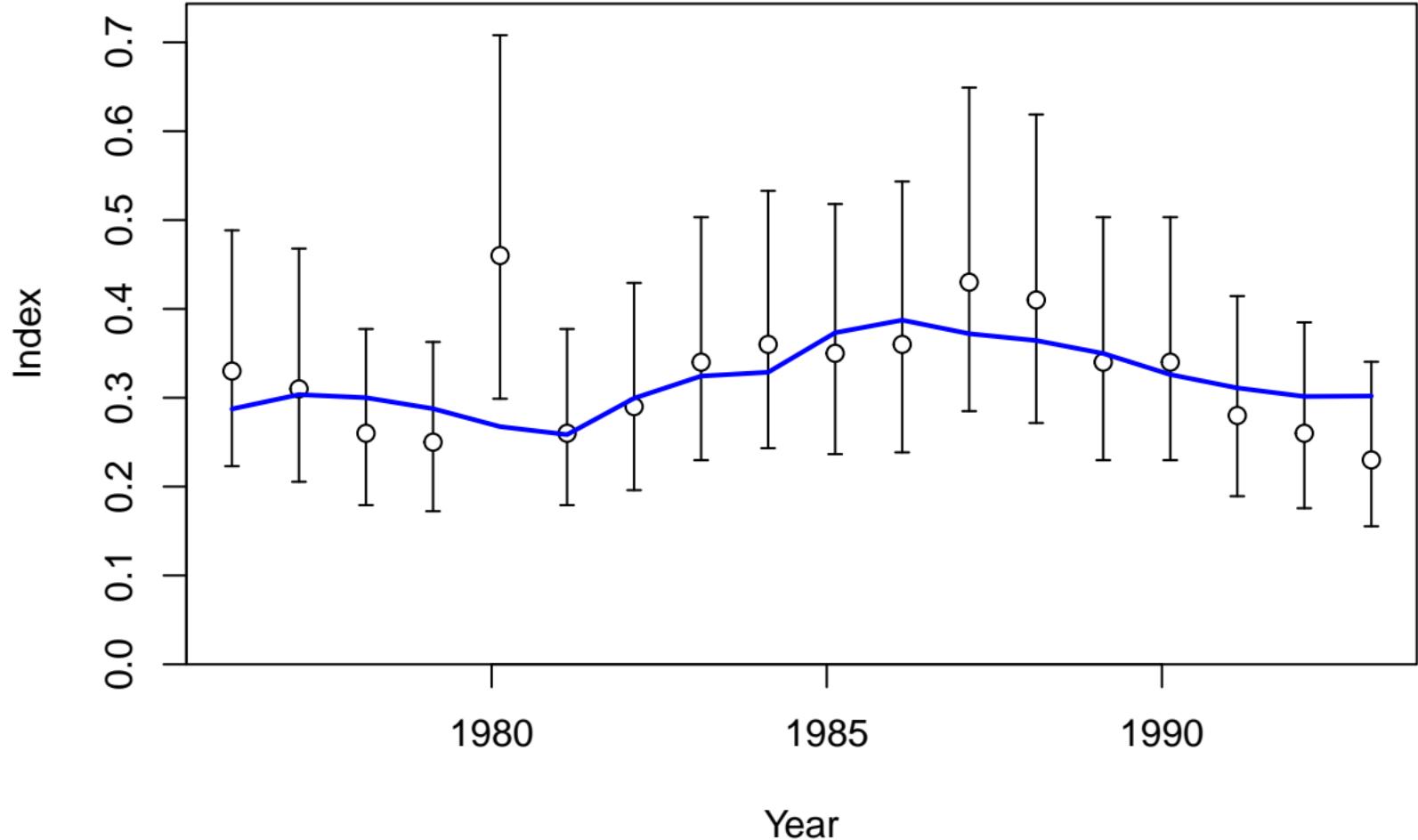




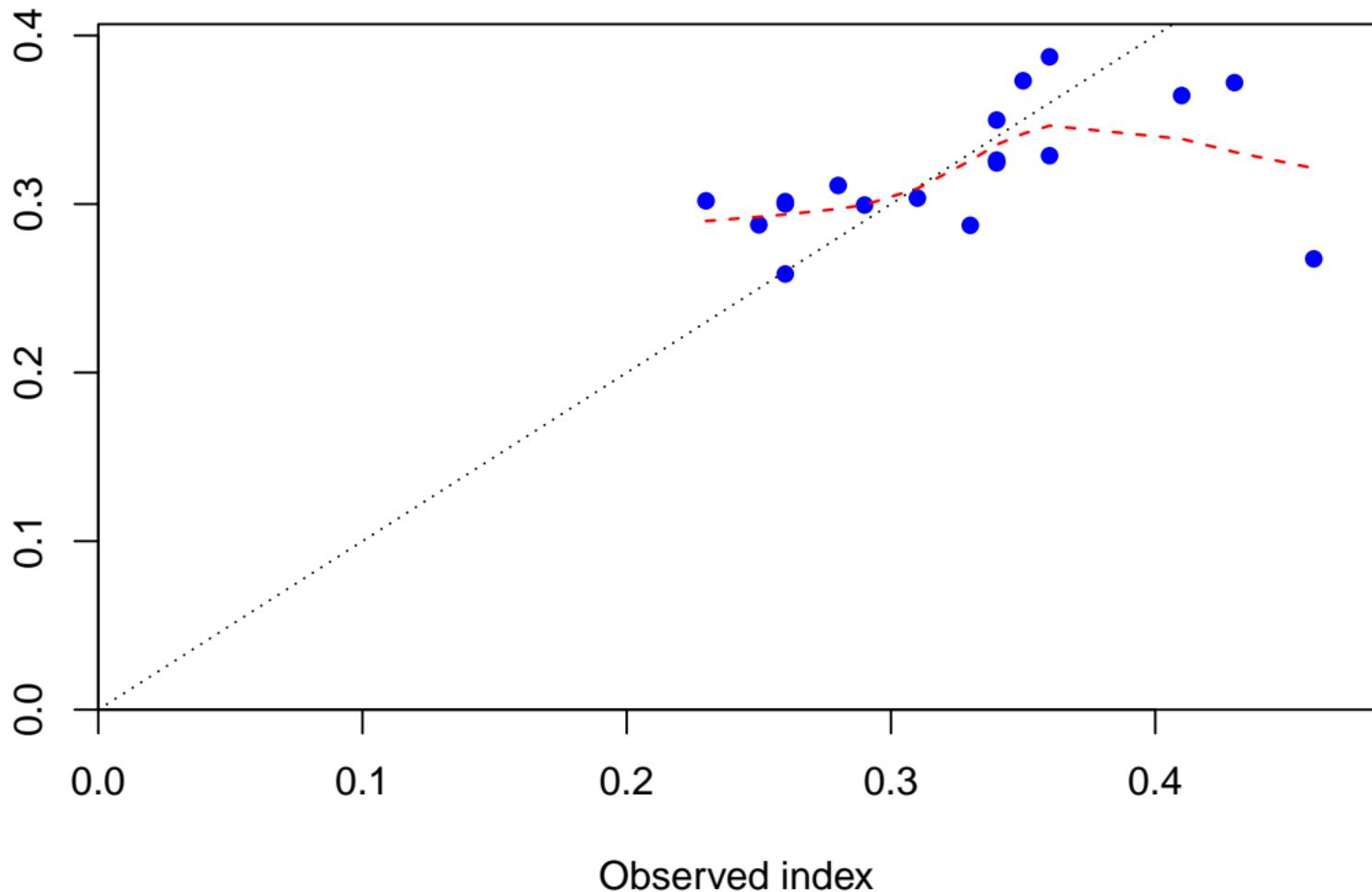






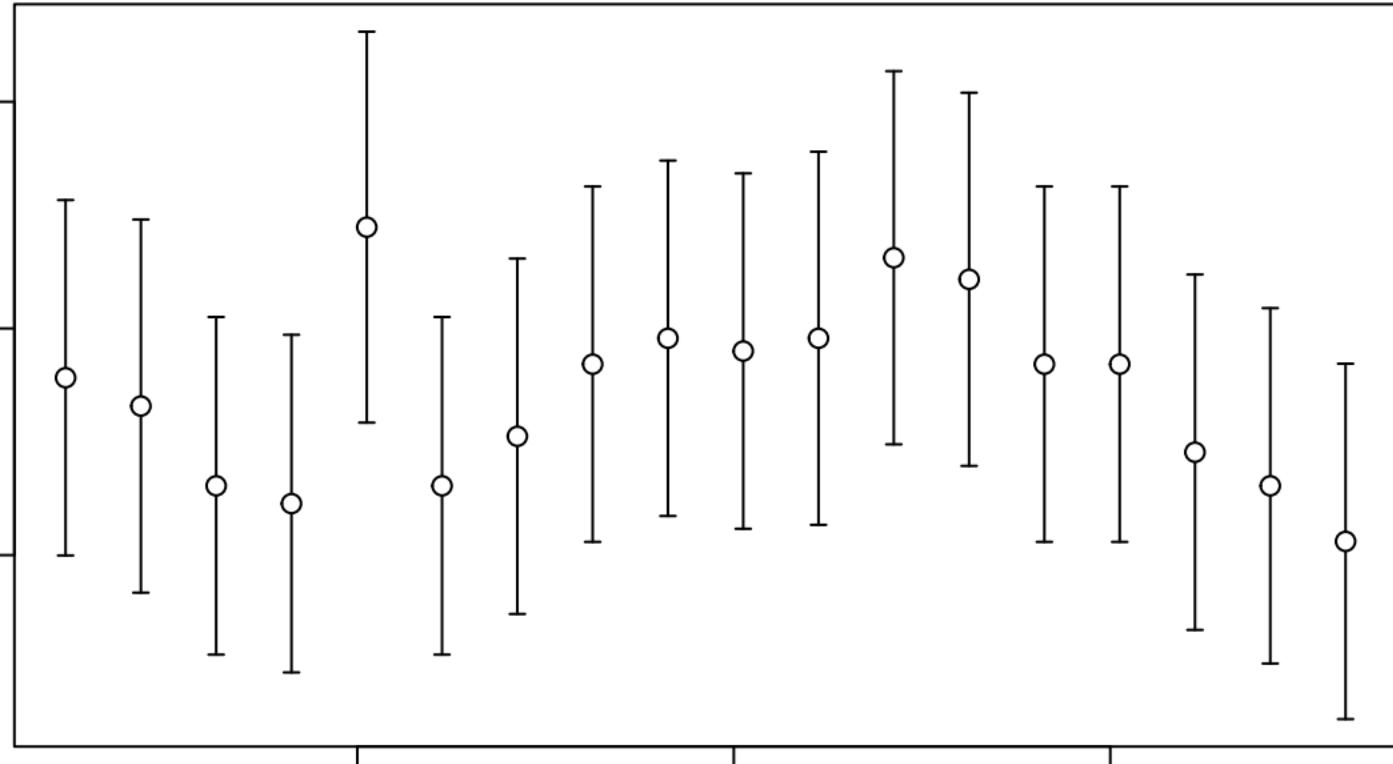


Expected index



Log index

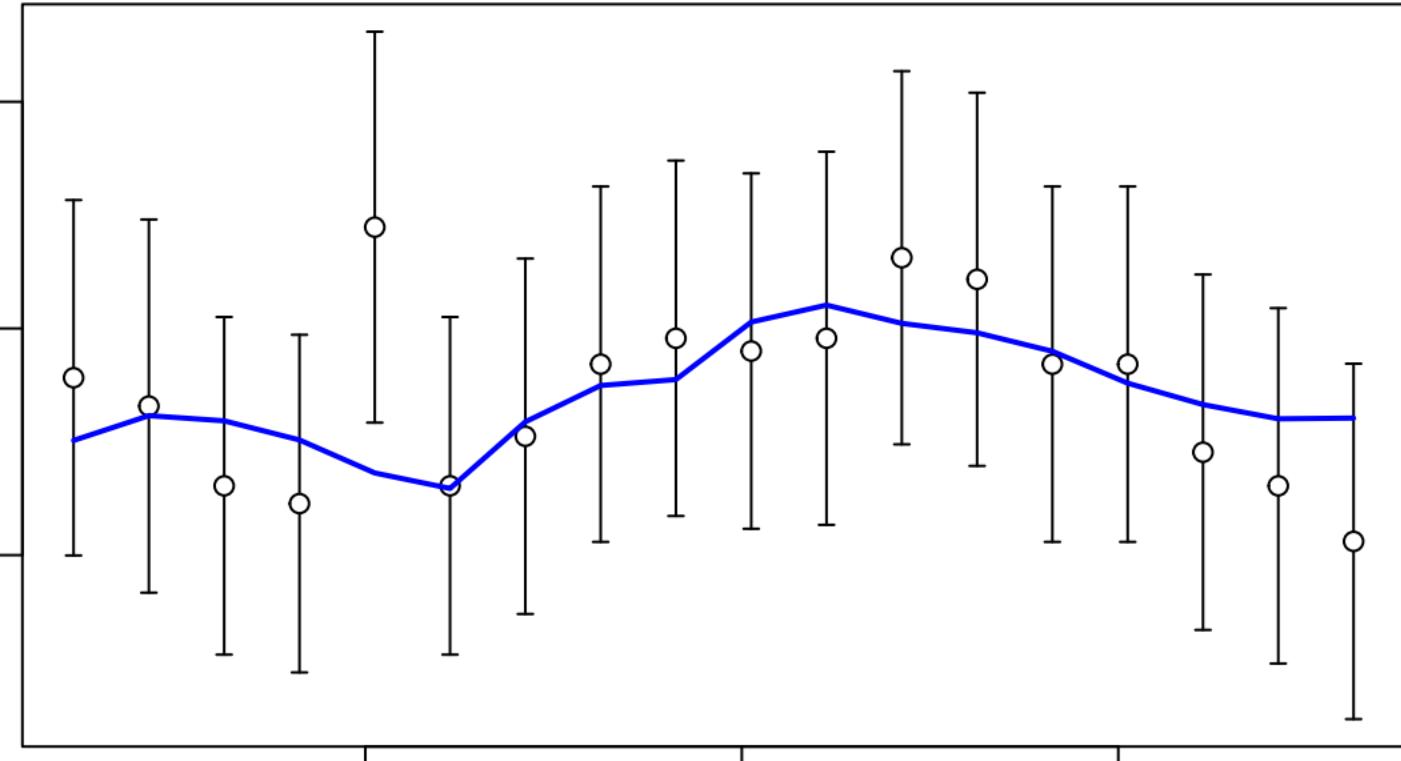
-0.5  
-1.0  
-1.5



Year

Log index

-0.5  
-1.0  
-1.5



1980

1985

1990

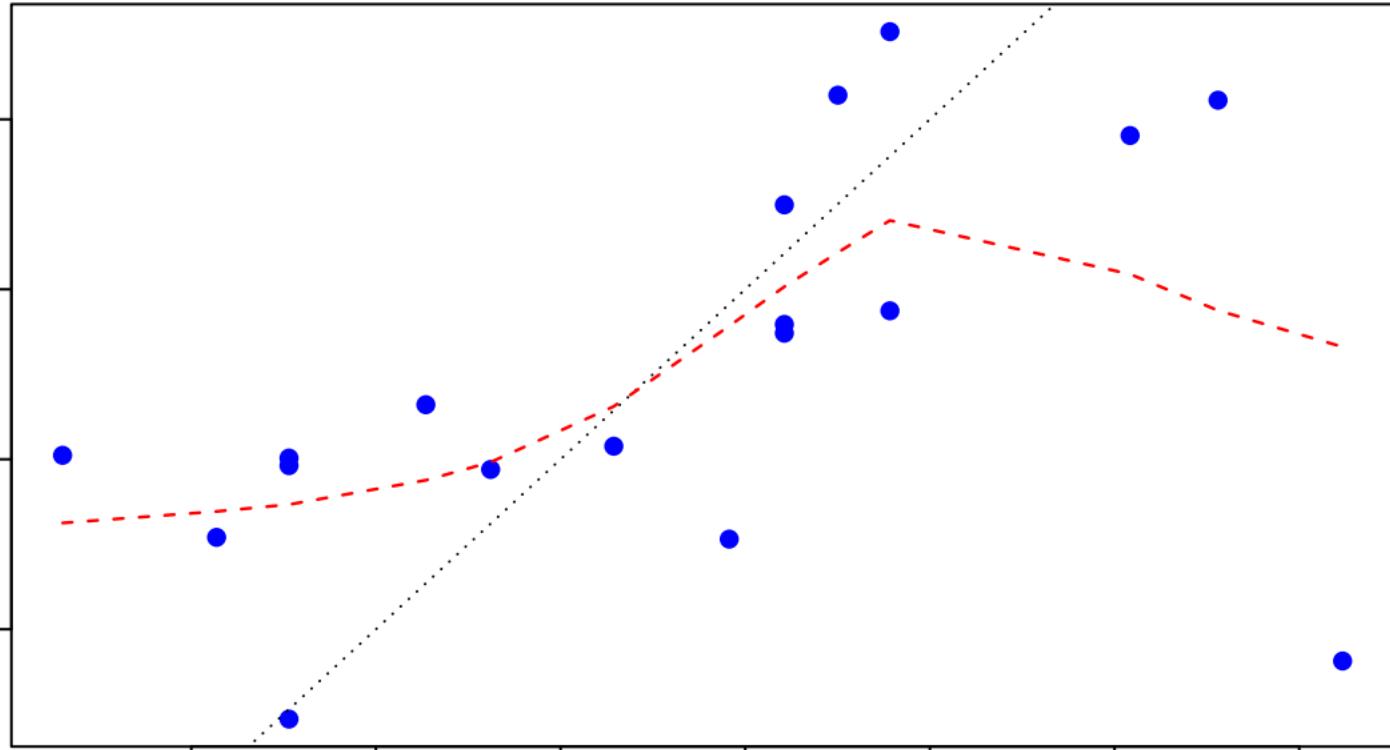
Year

Log expected index

-1.0  
-1.1  
-1.2  
-1.3

-1.4 -1.3 -1.2 -1.1 -1.0 -0.9 -0.8

Log observed index

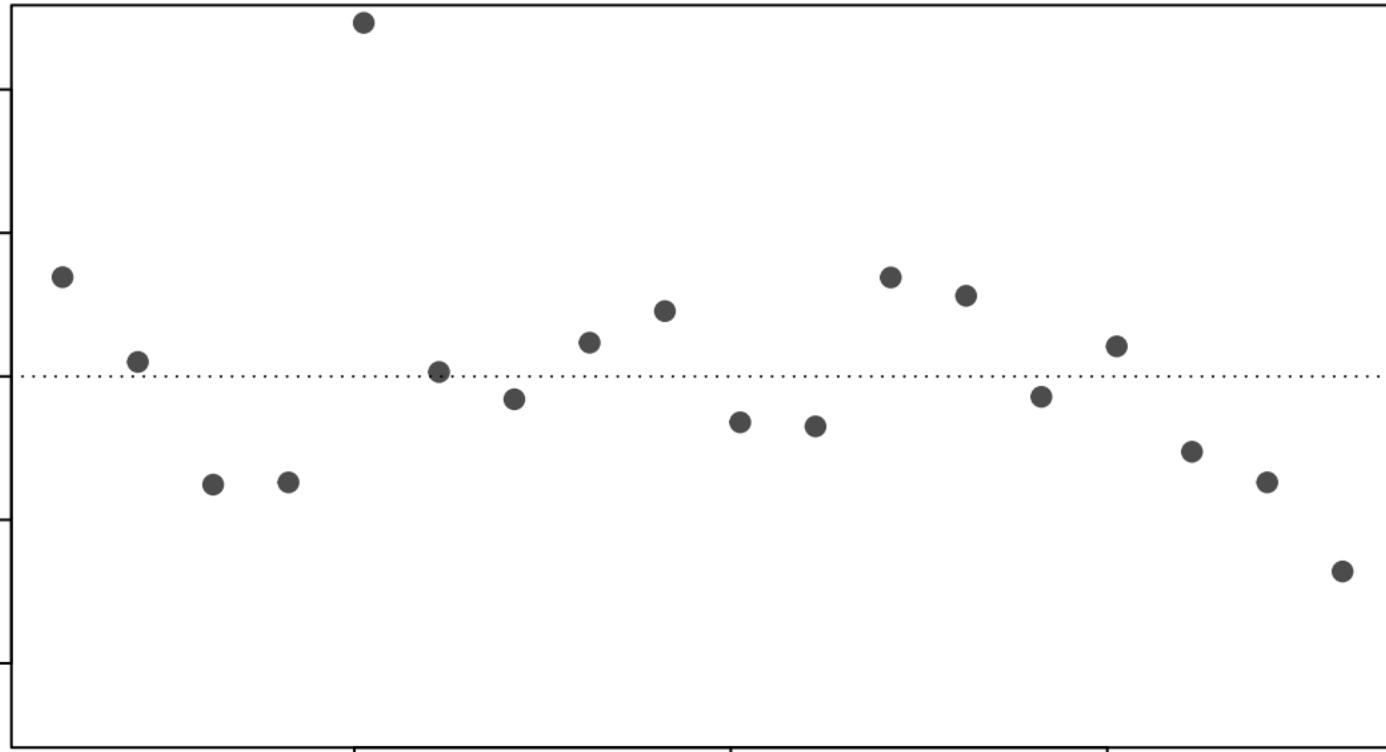


Residual

2  
1  
0  
-1  
-2

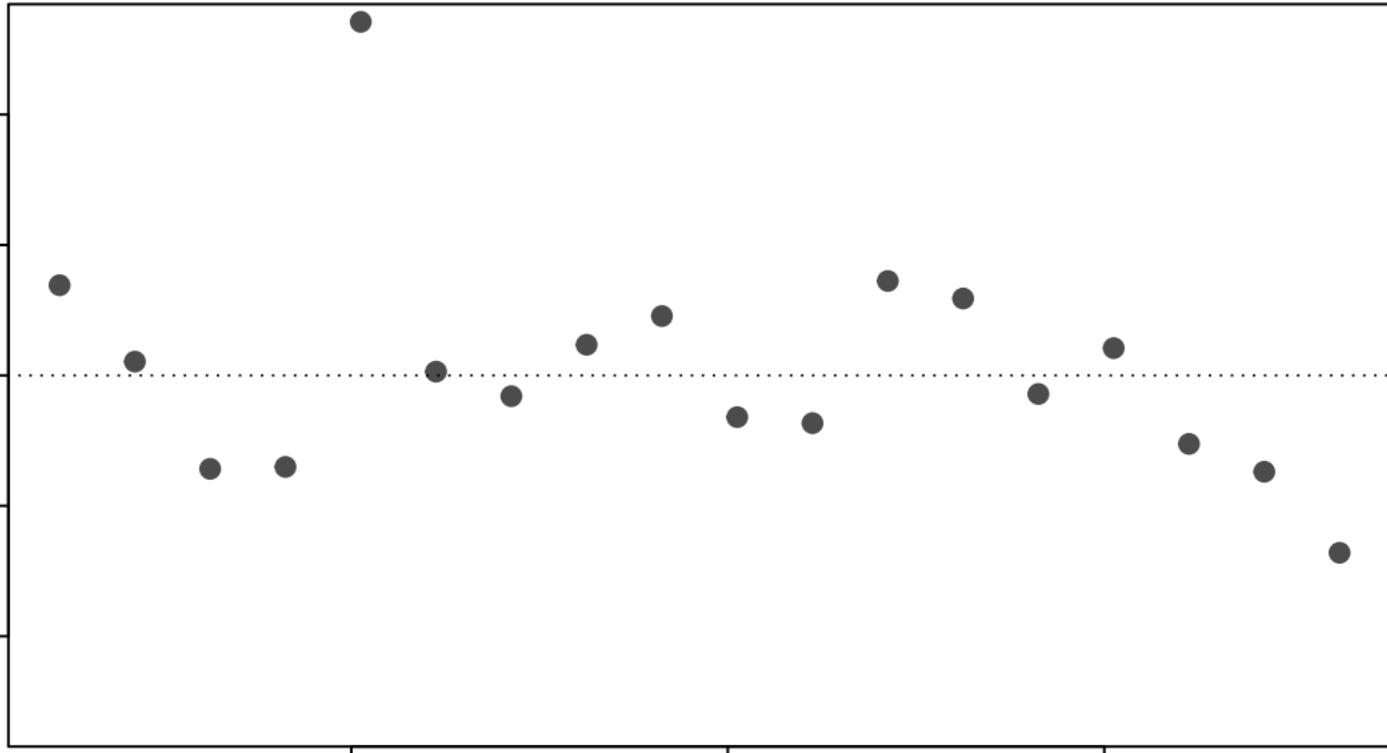
1980 1985 1990

Year

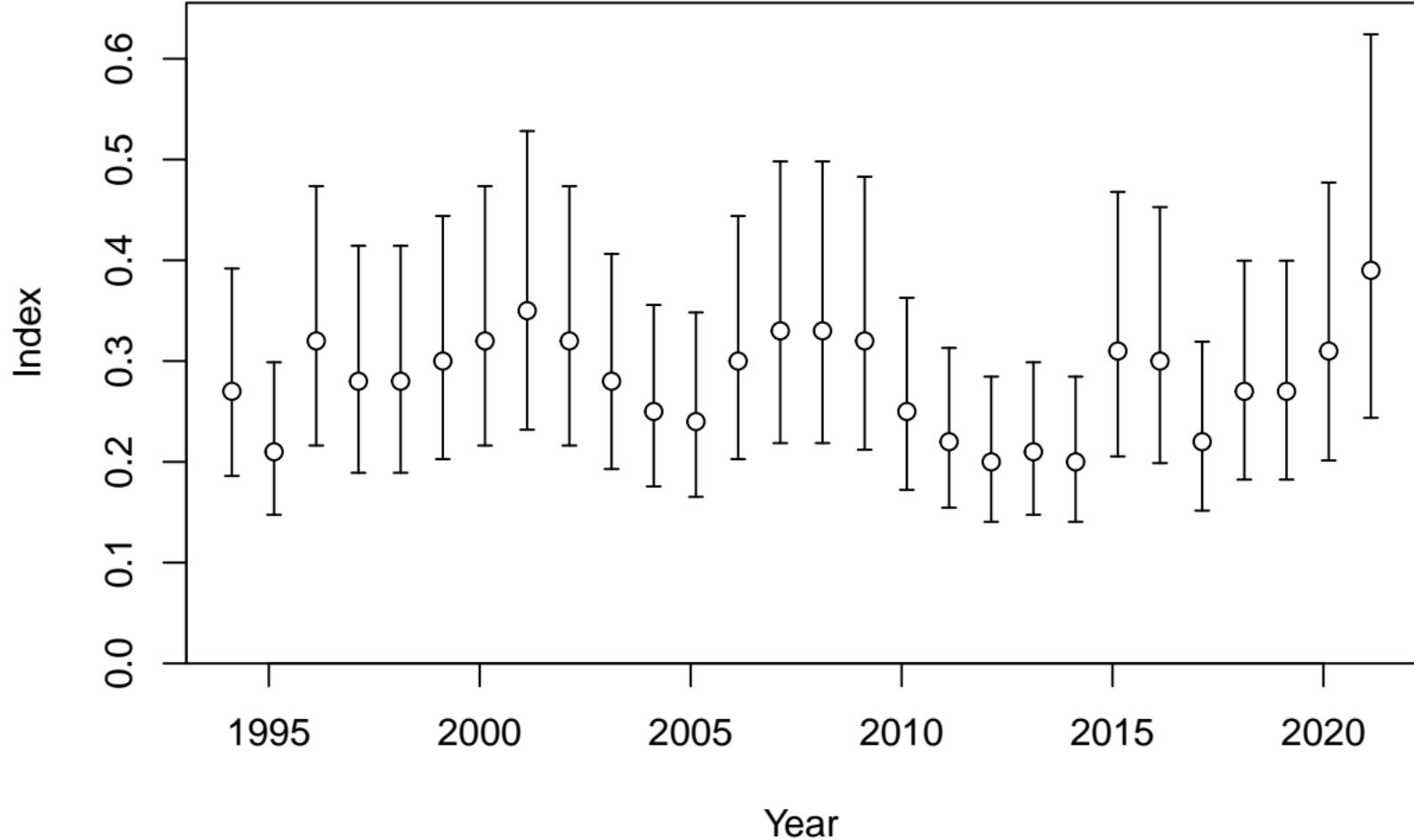


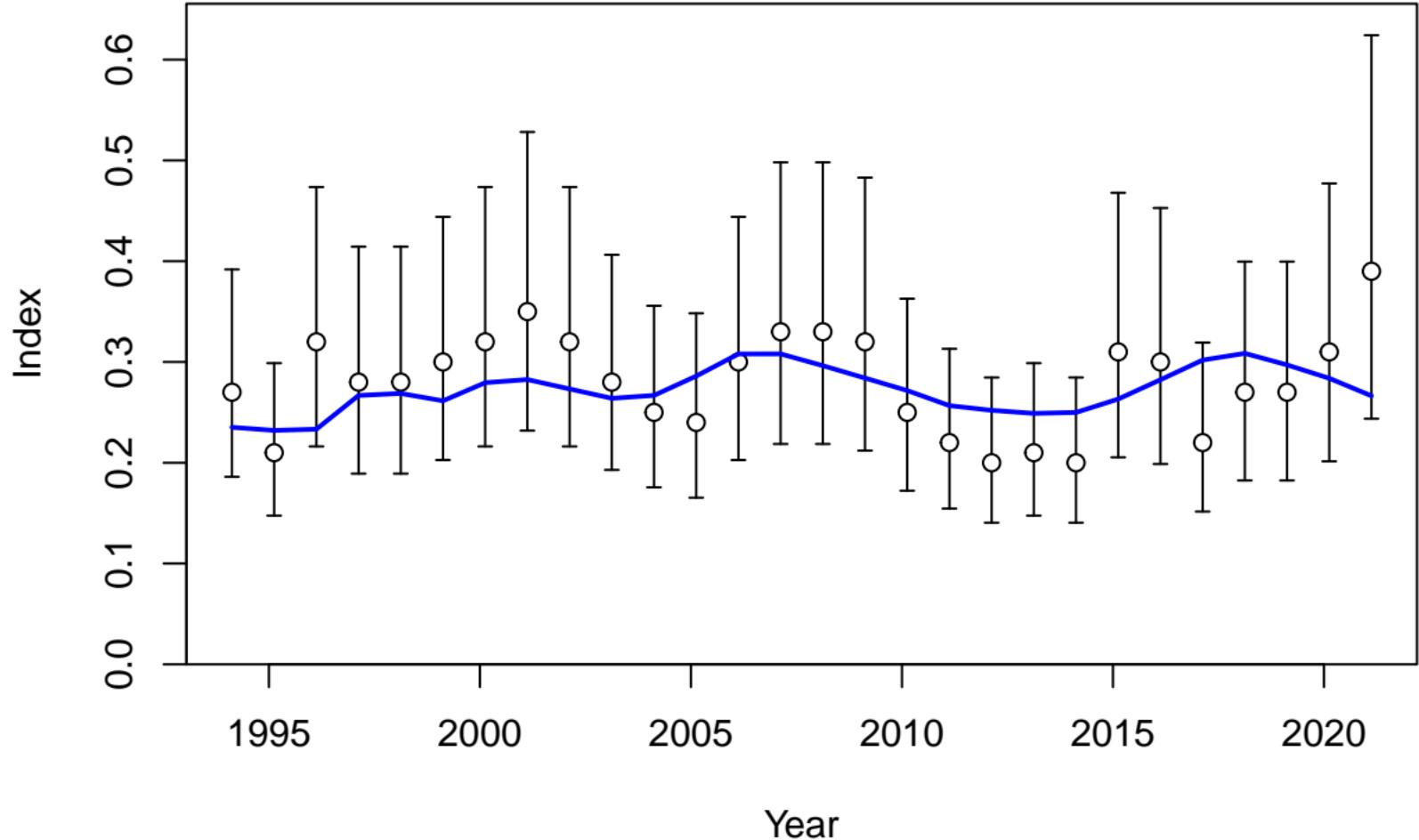
Deviation

-0.4 -0.2 0.0 0.2 0.4



Year



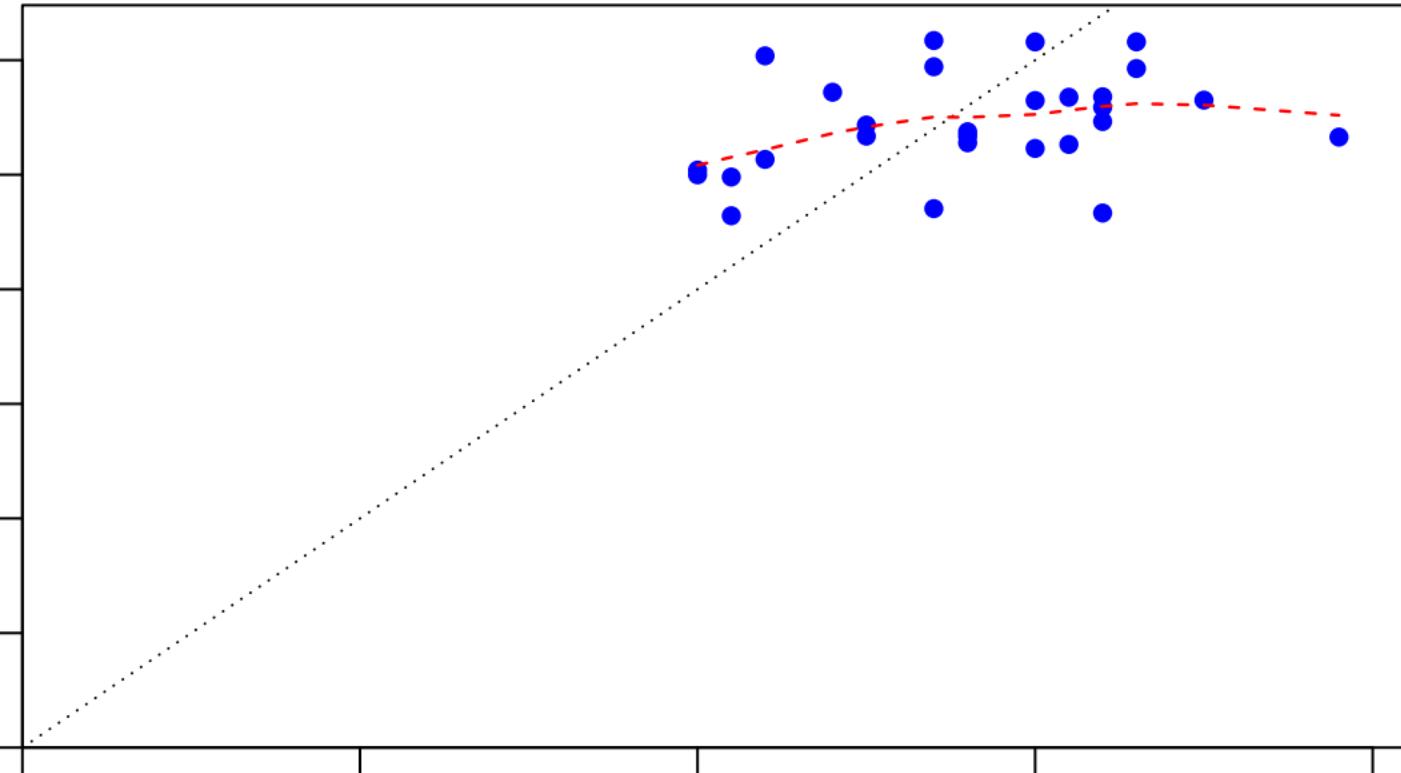


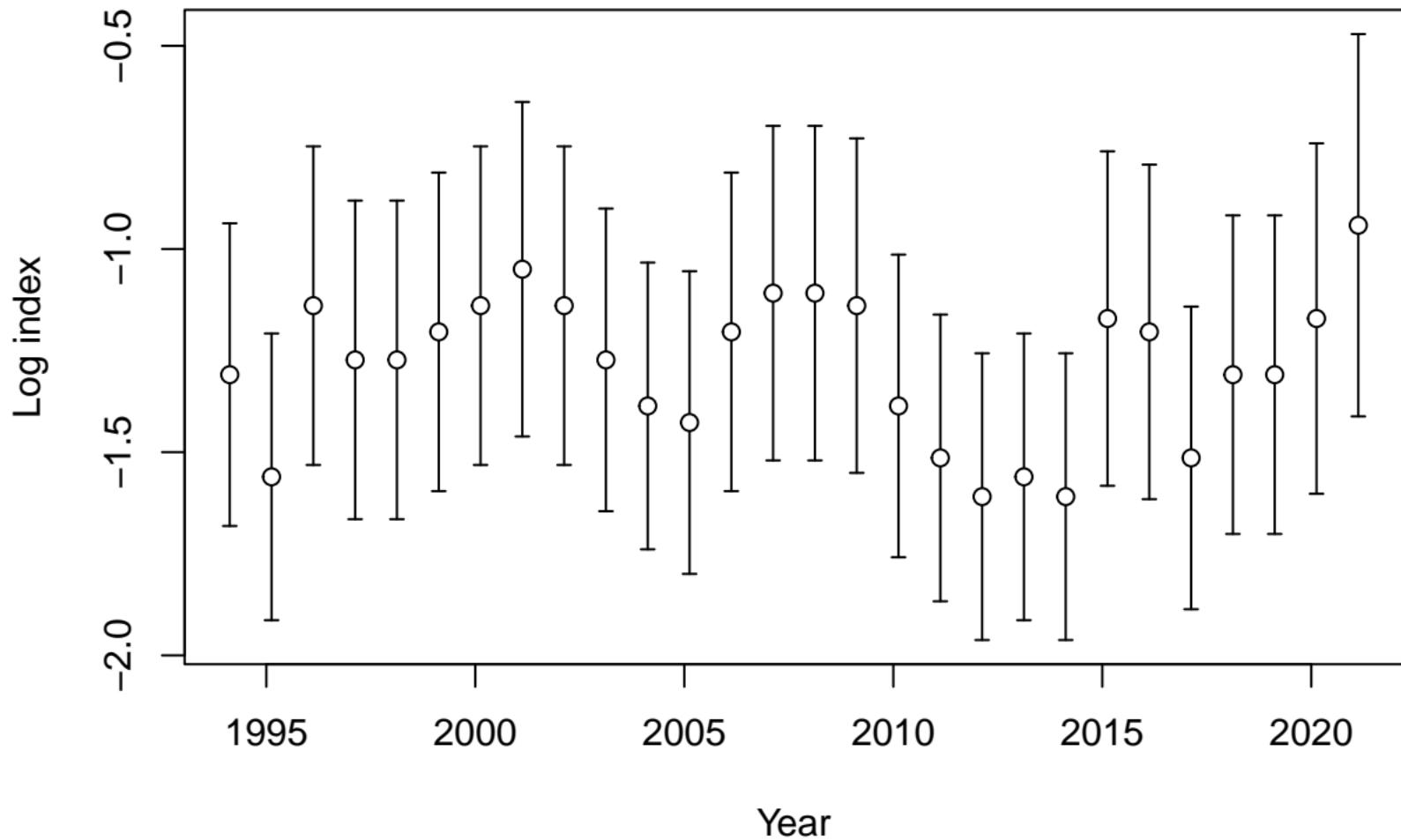
Expected index

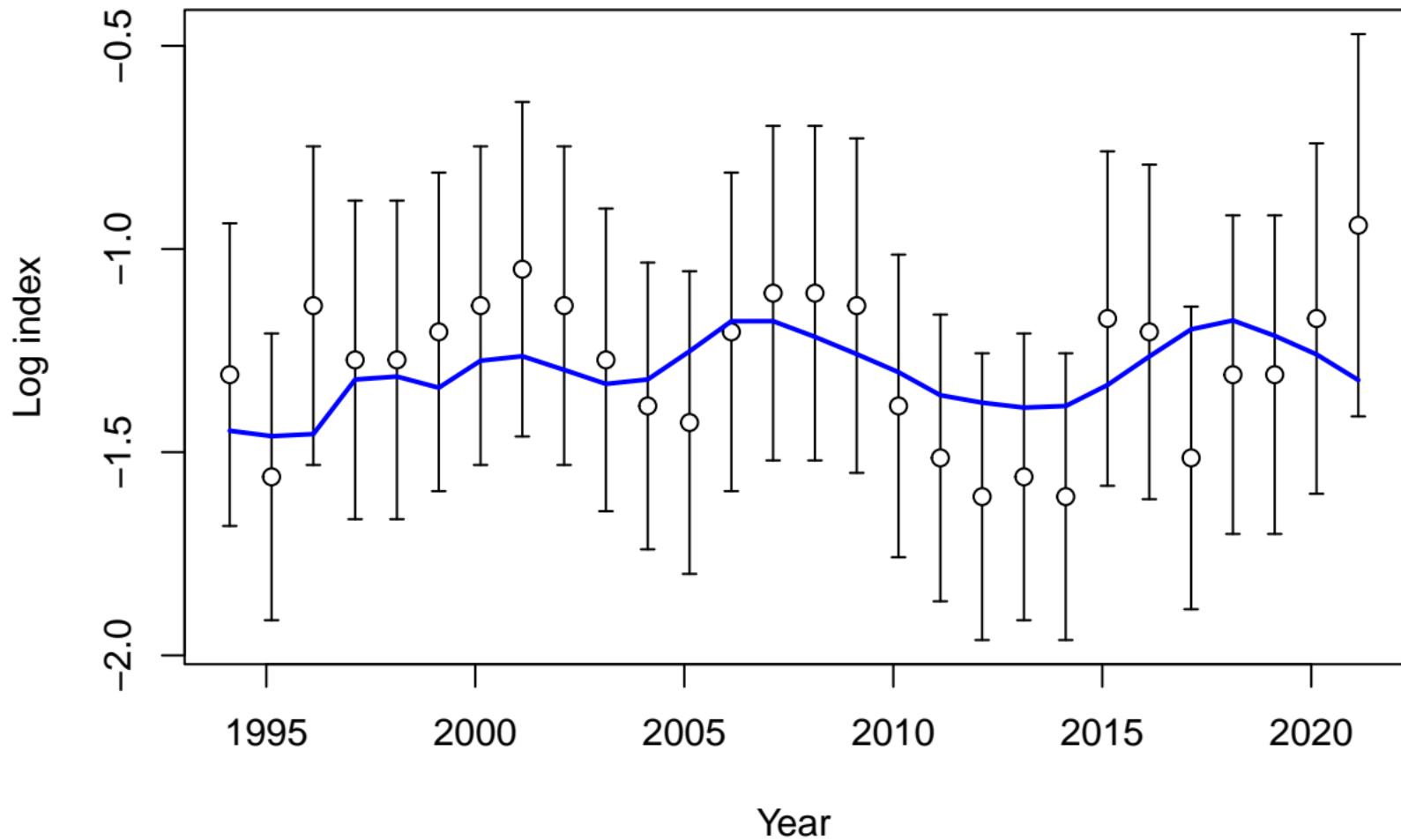
0.30  
0.20  
0.10  
0.00

0.0 0.1 0.2 0.3 0.4

Observed index





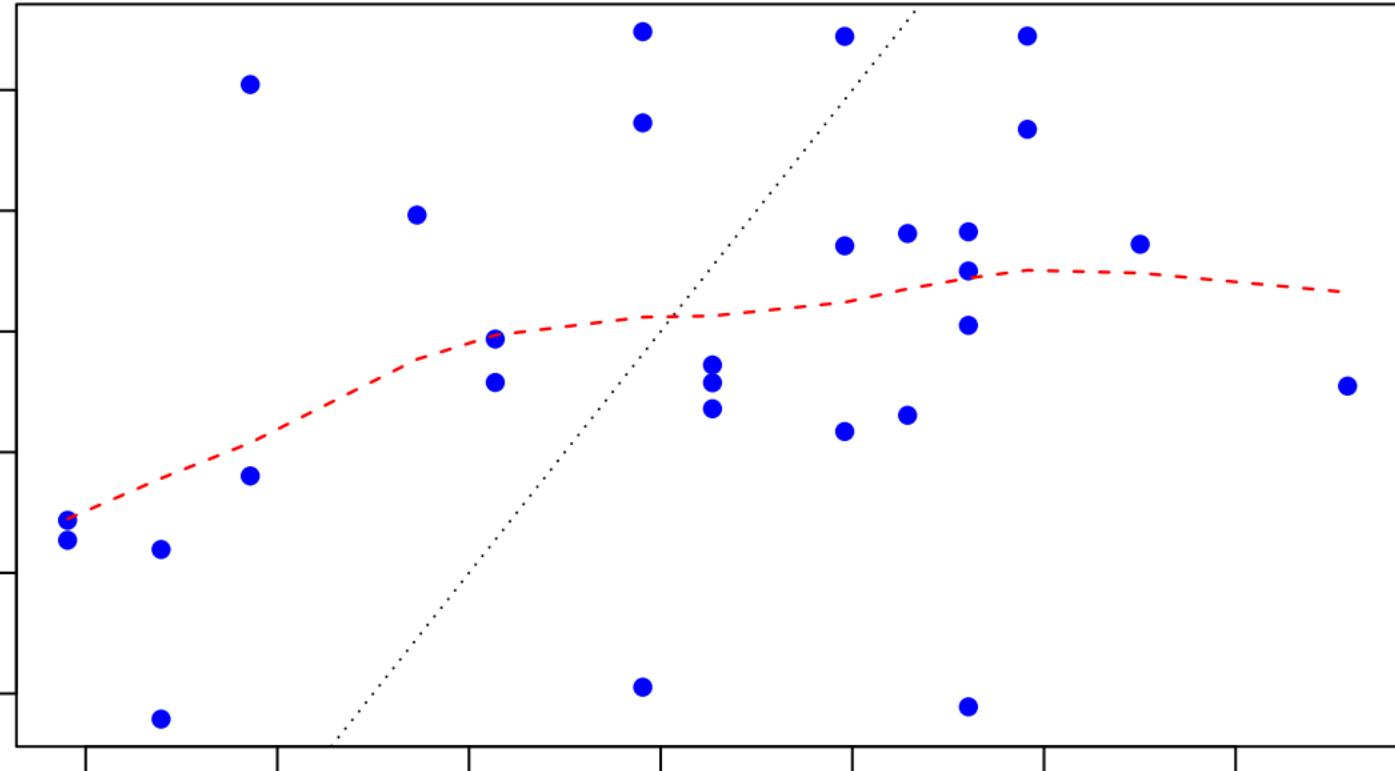


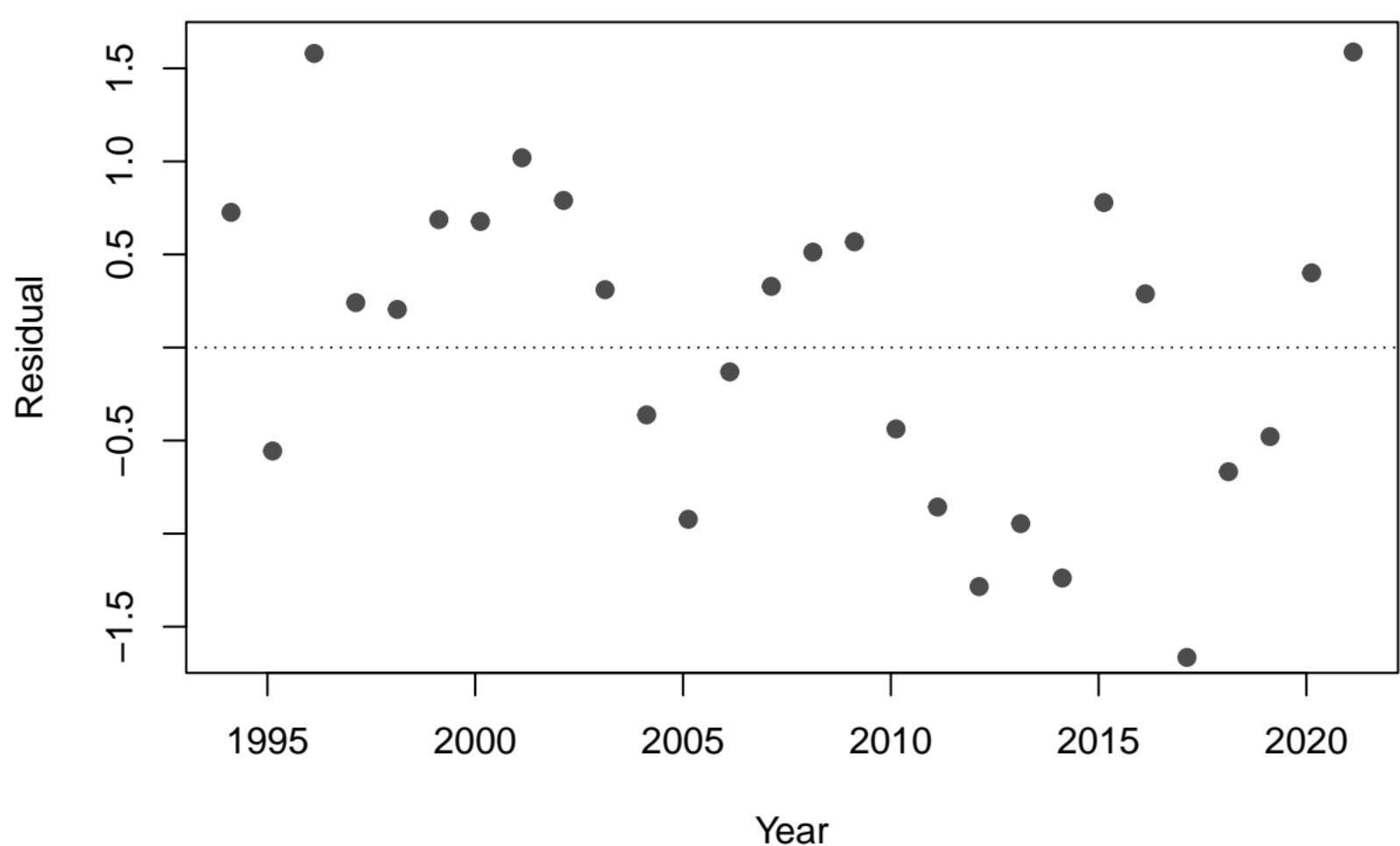
Log expected index

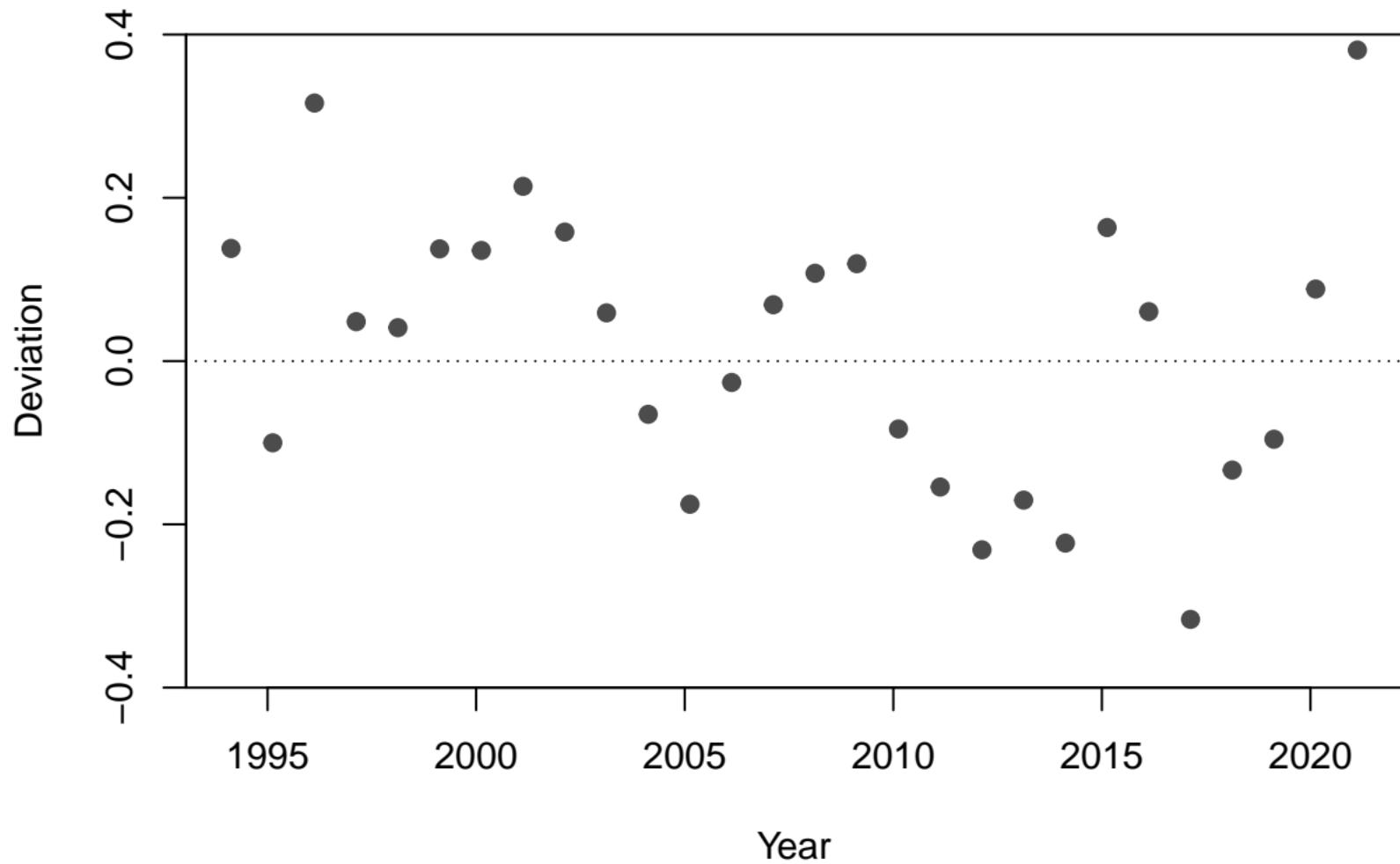
-1.25  
-1.35  
-1.45

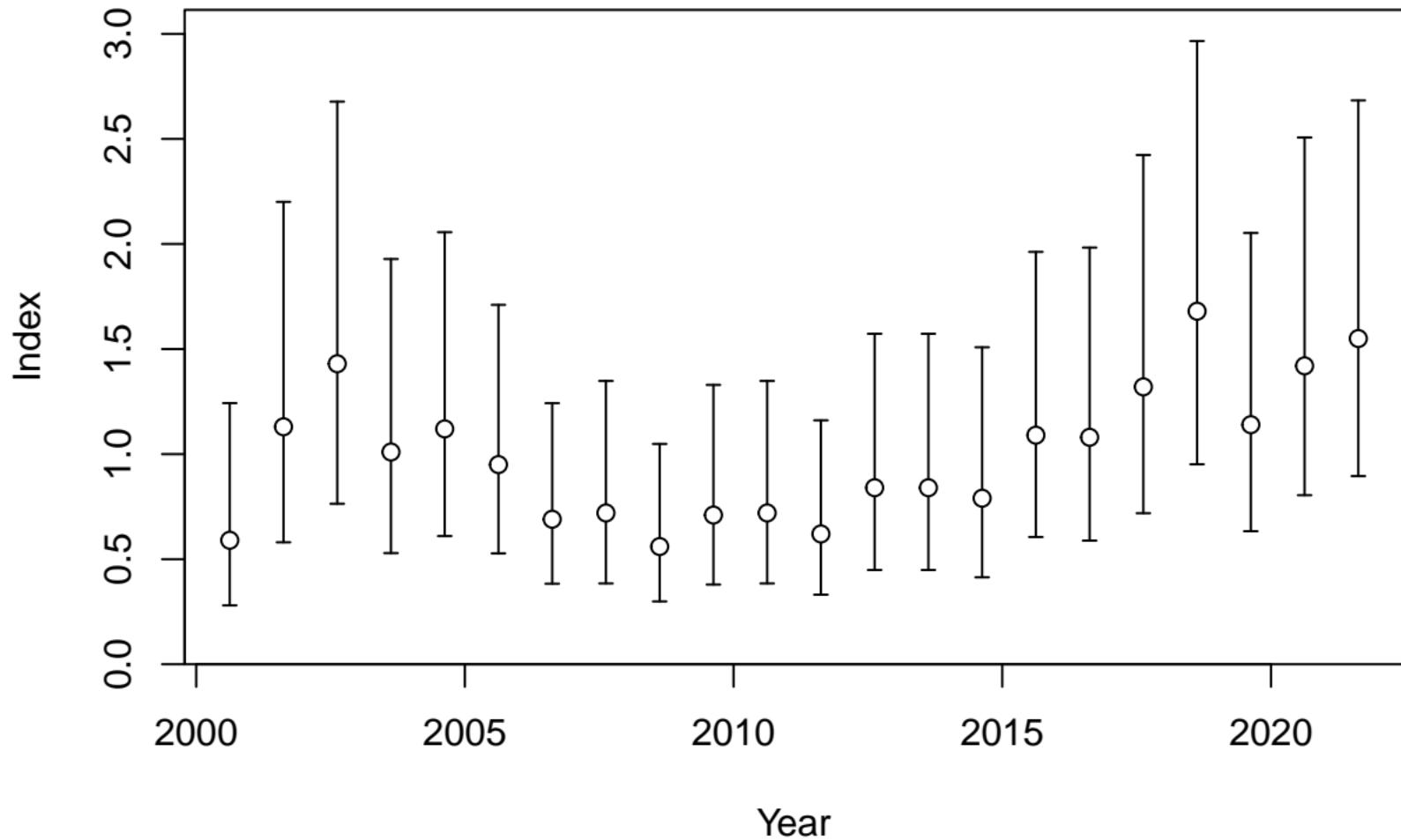
-1.6 -1.5 -1.4 -1.3 -1.2 -1.1 -1.0

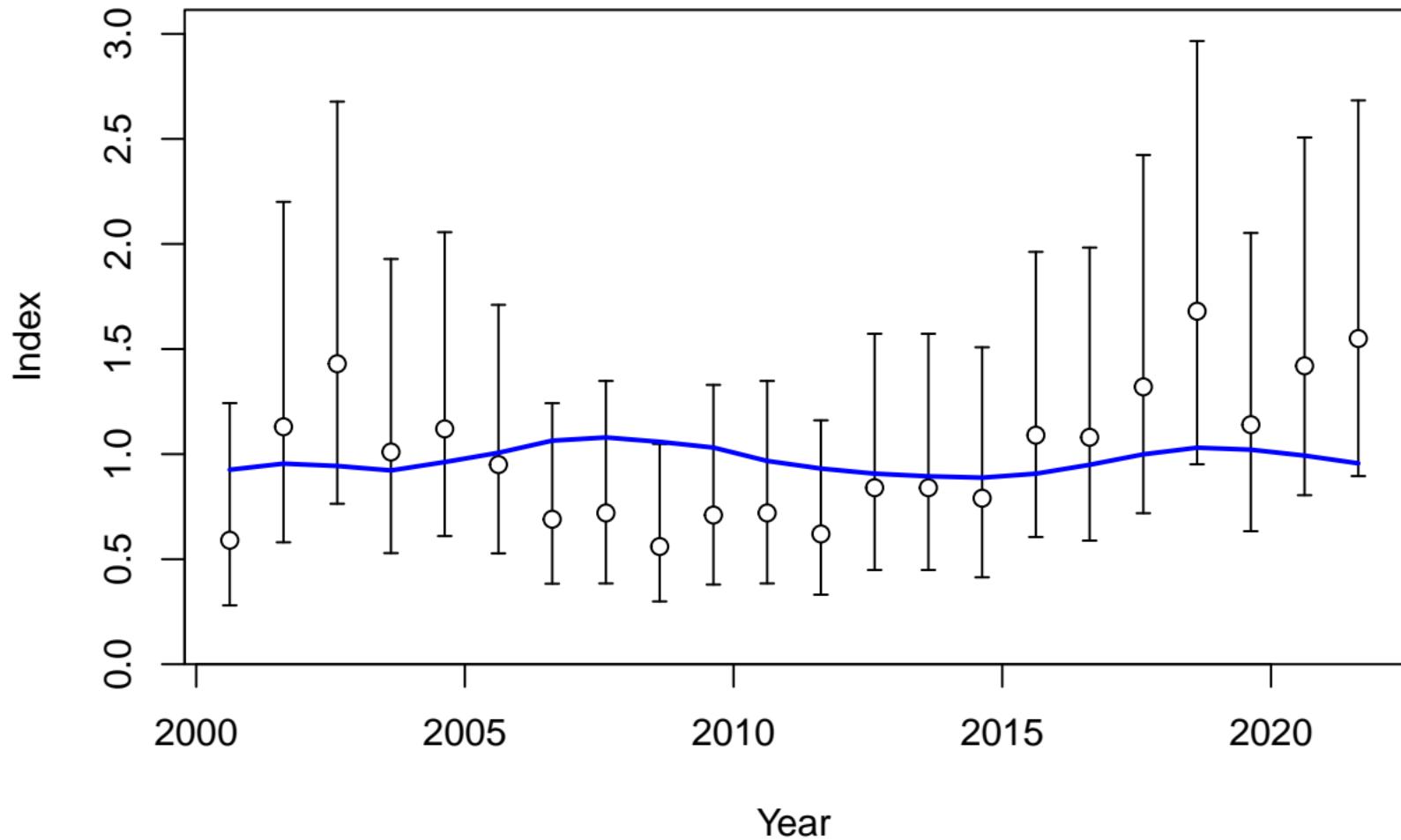
Log observed index











Expected index

1.0  
0.8  
0.6  
0.4  
0.2  
0.0

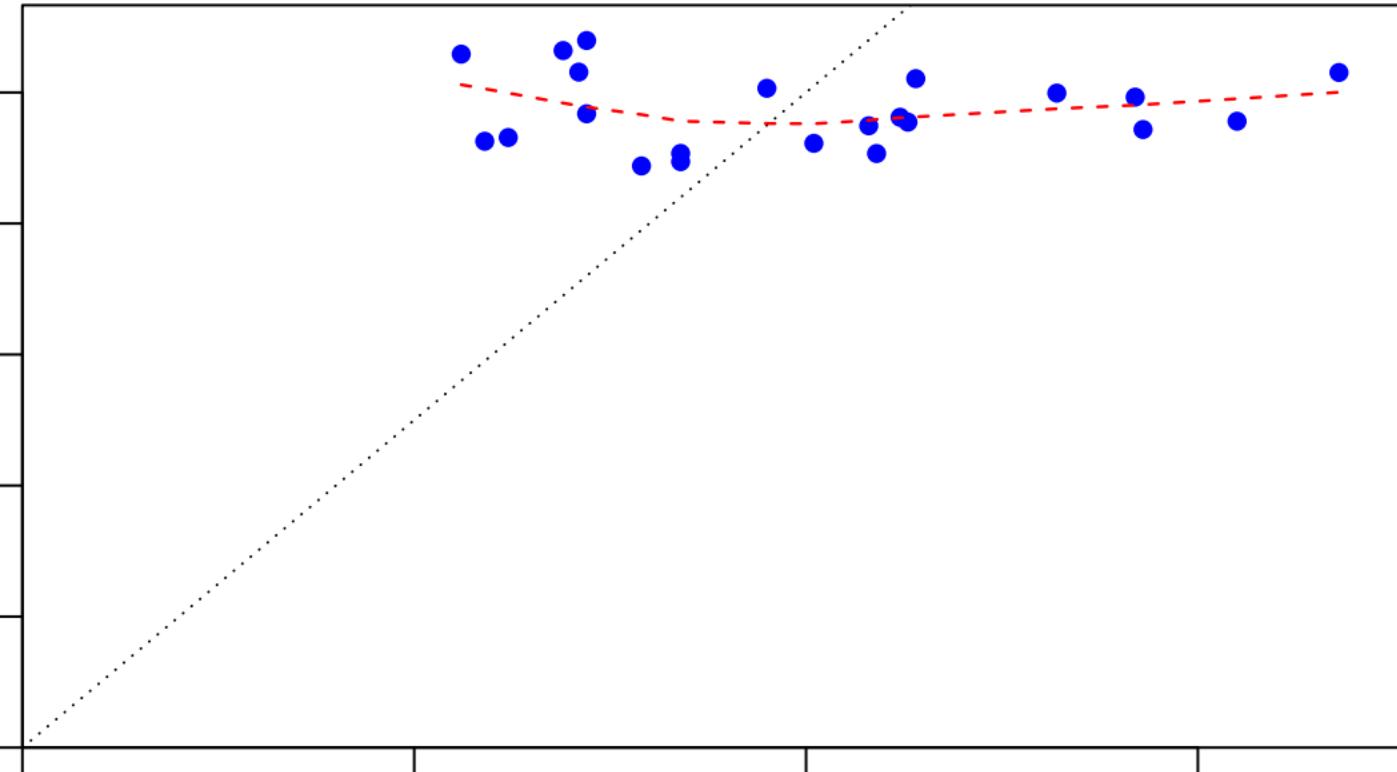
0.0

0.5

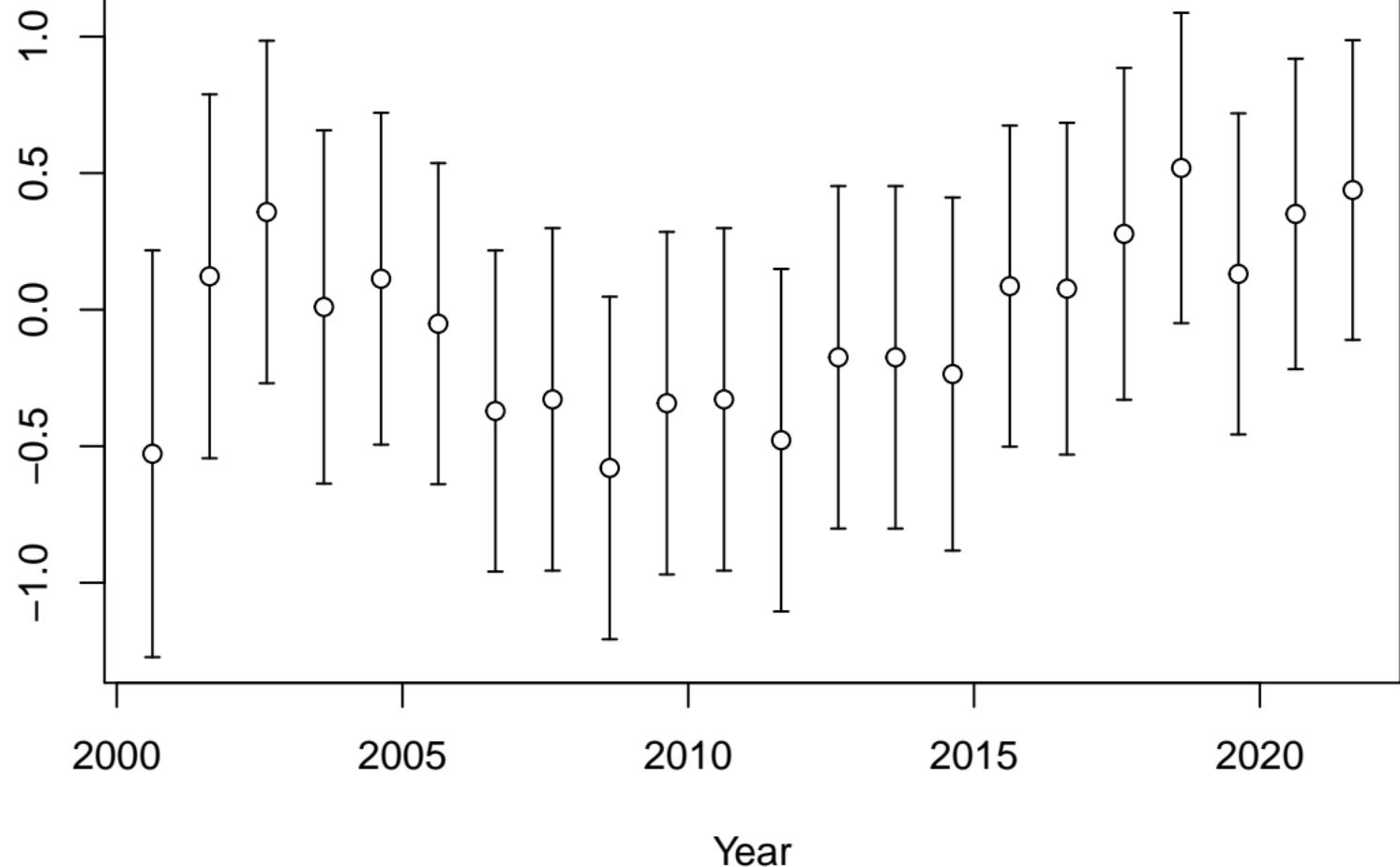
1.0

1.5

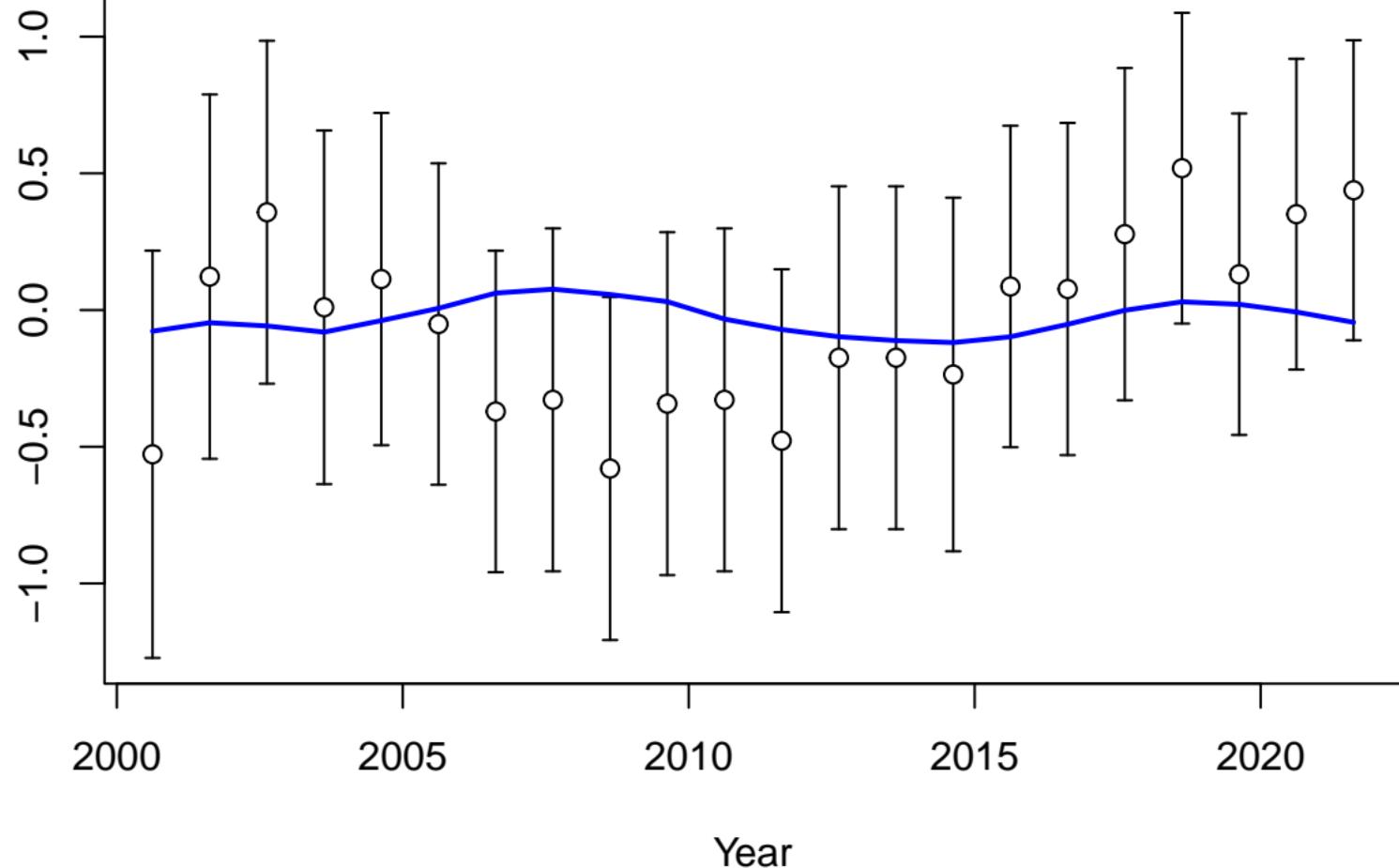
Observed index



Log index



Log index

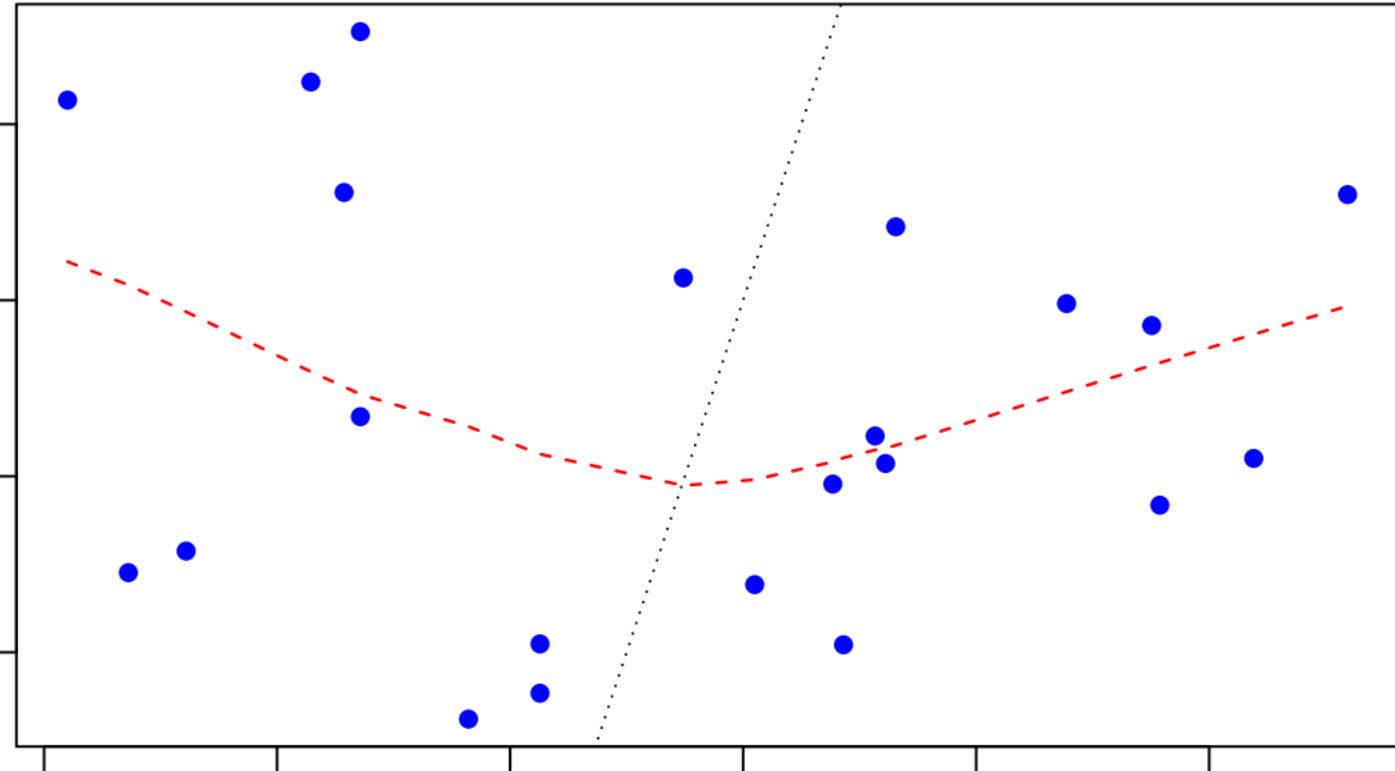


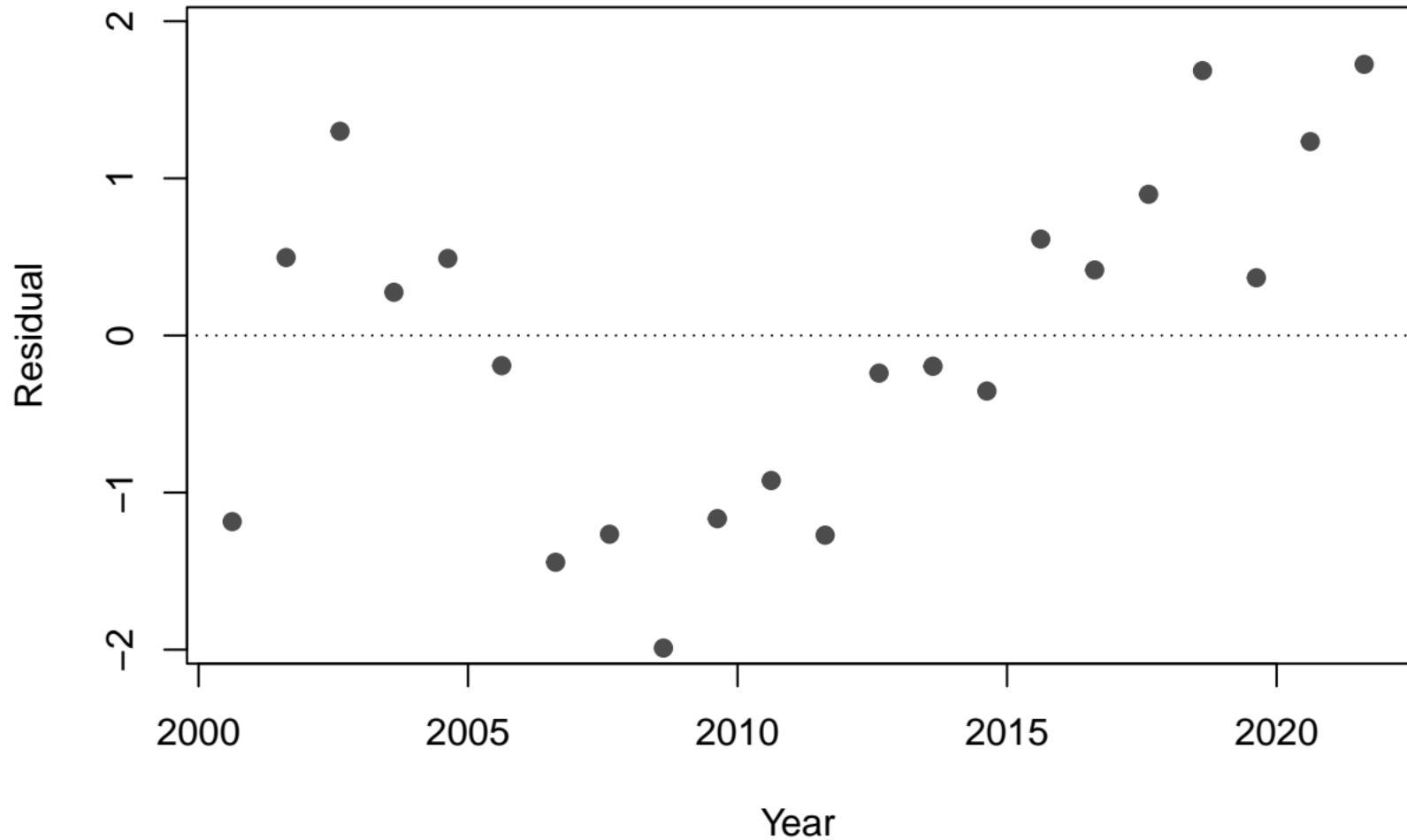
Log expected index

-0.10  
-0.05  
0.00  
0.05

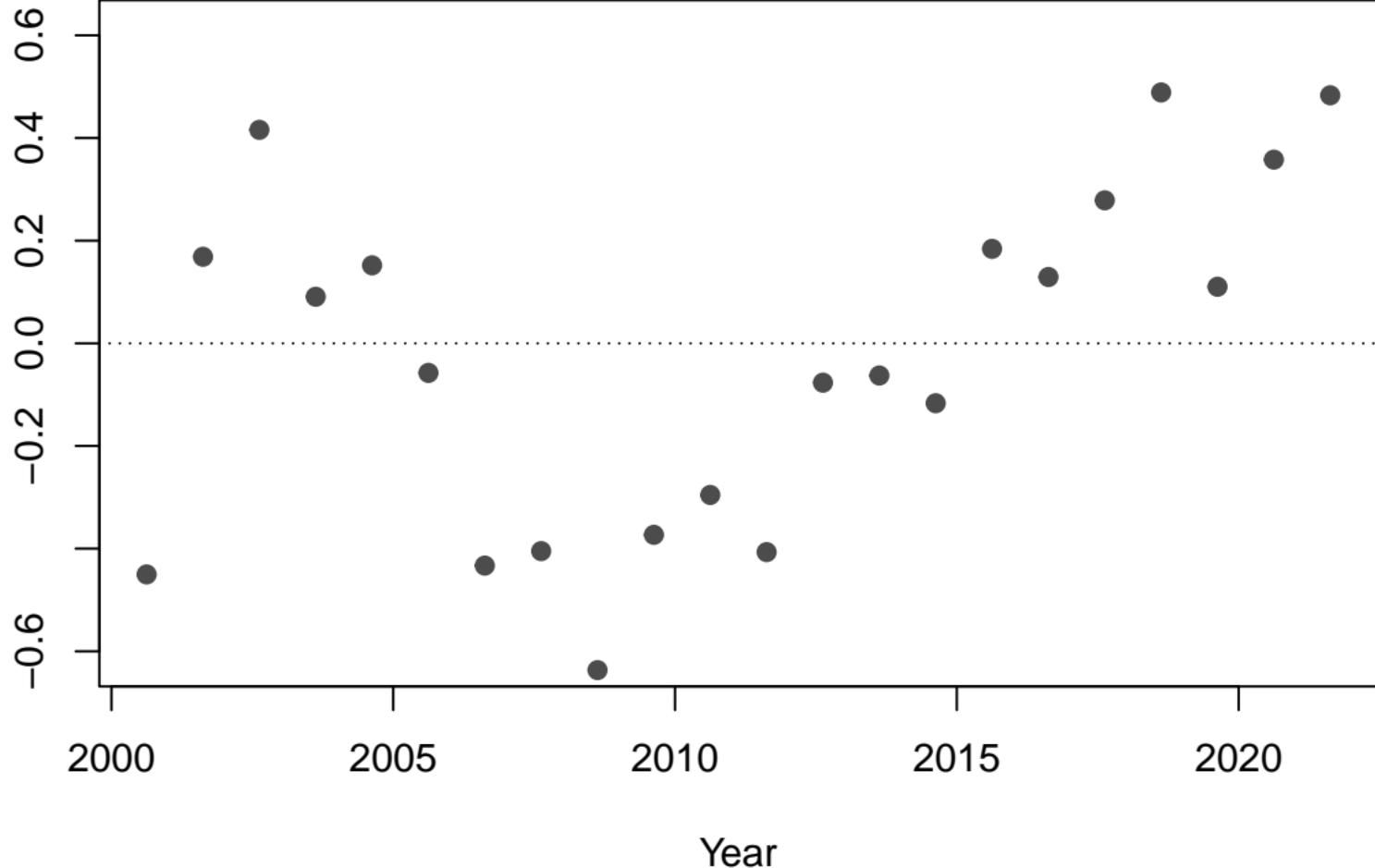
-0.6 -0.4 -0.2 0.0 0.2 0.4

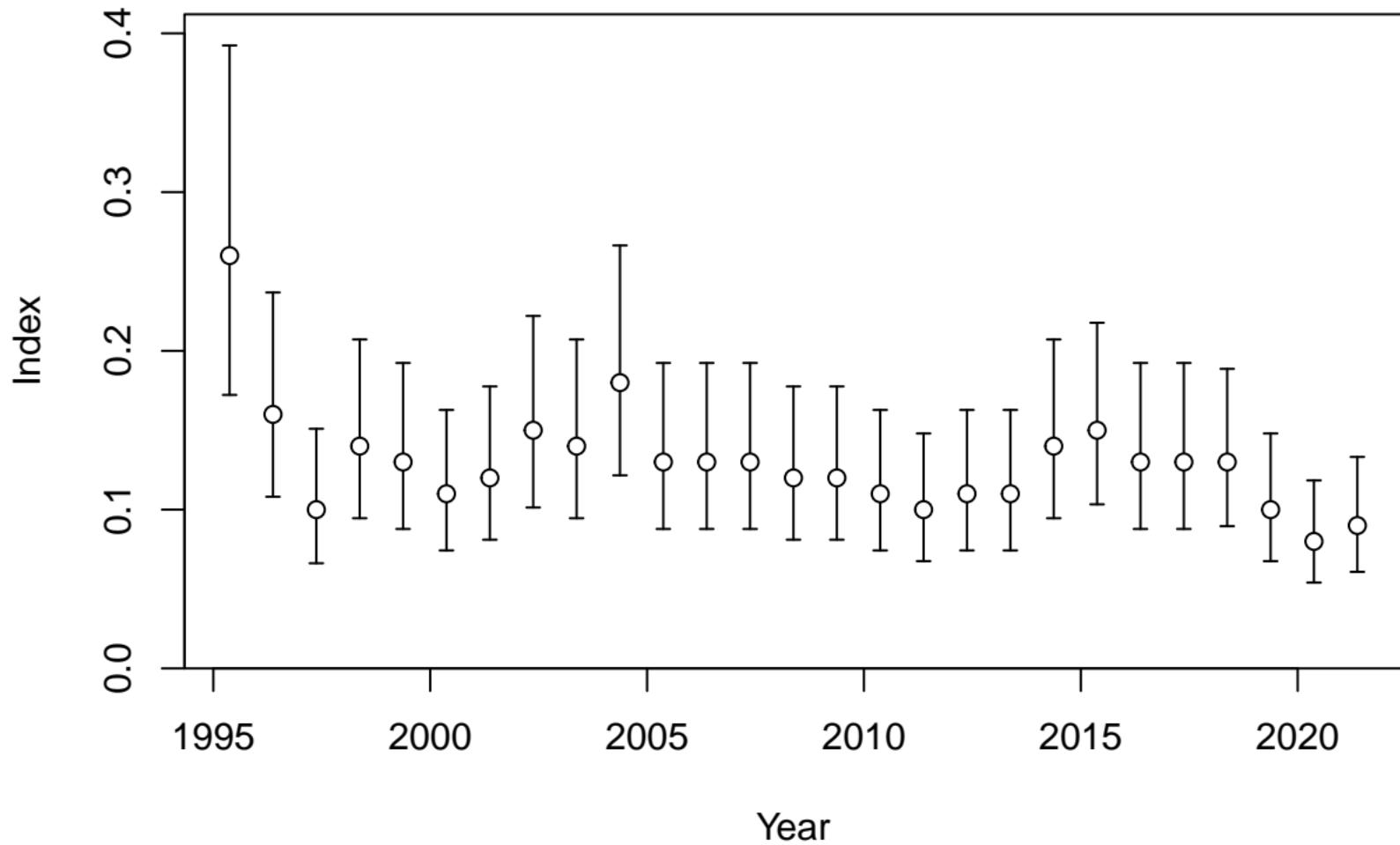
Log observed index

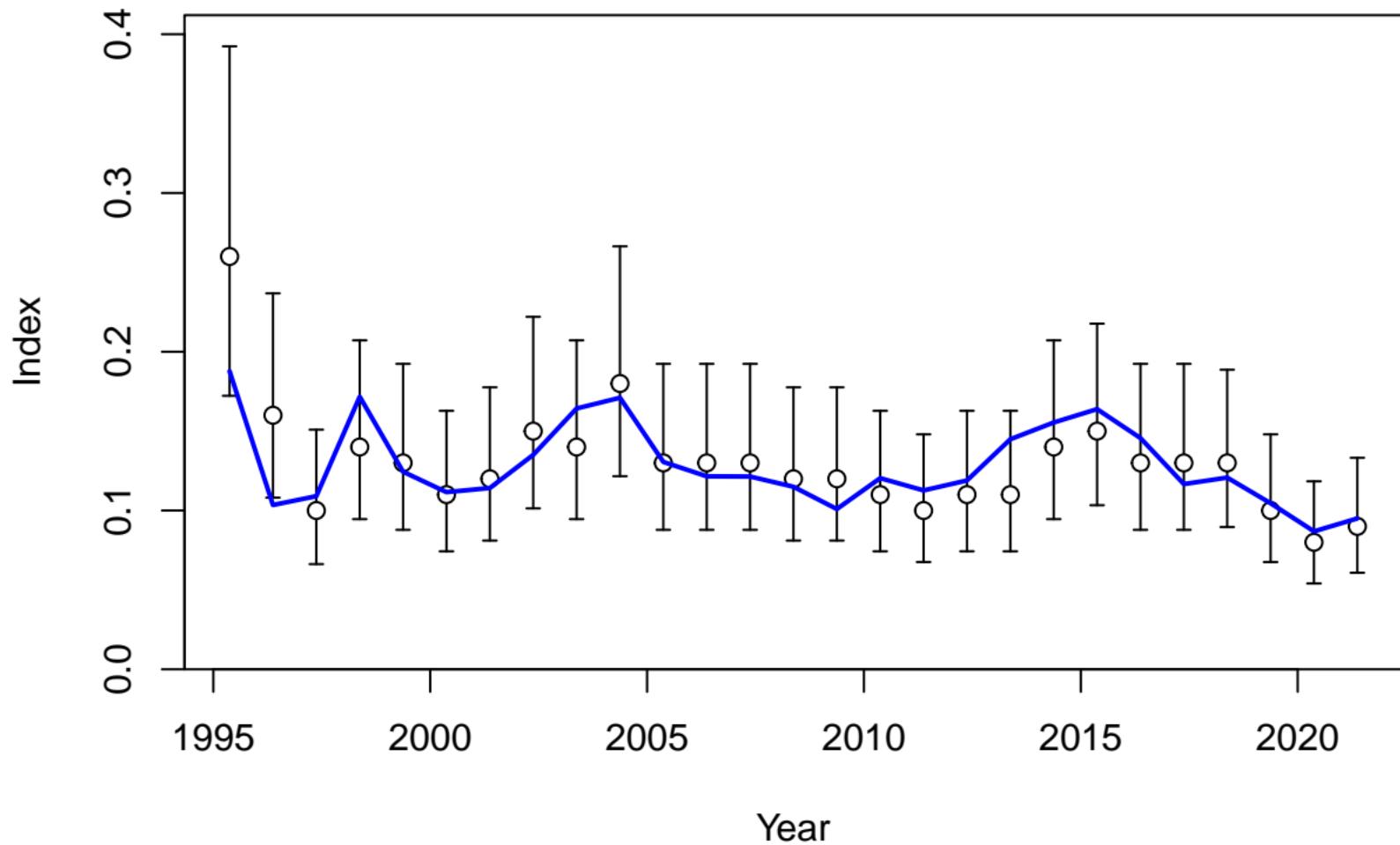




Deviation





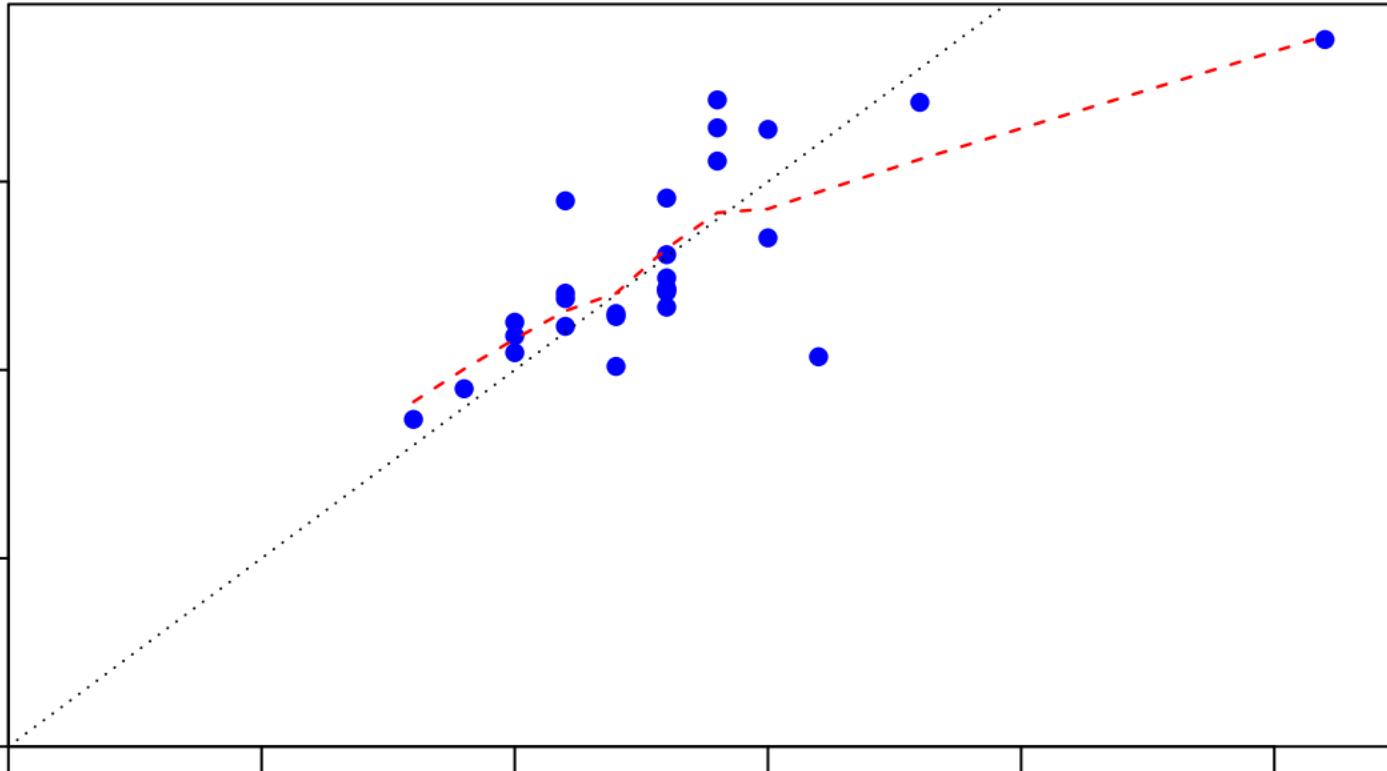


Expected index

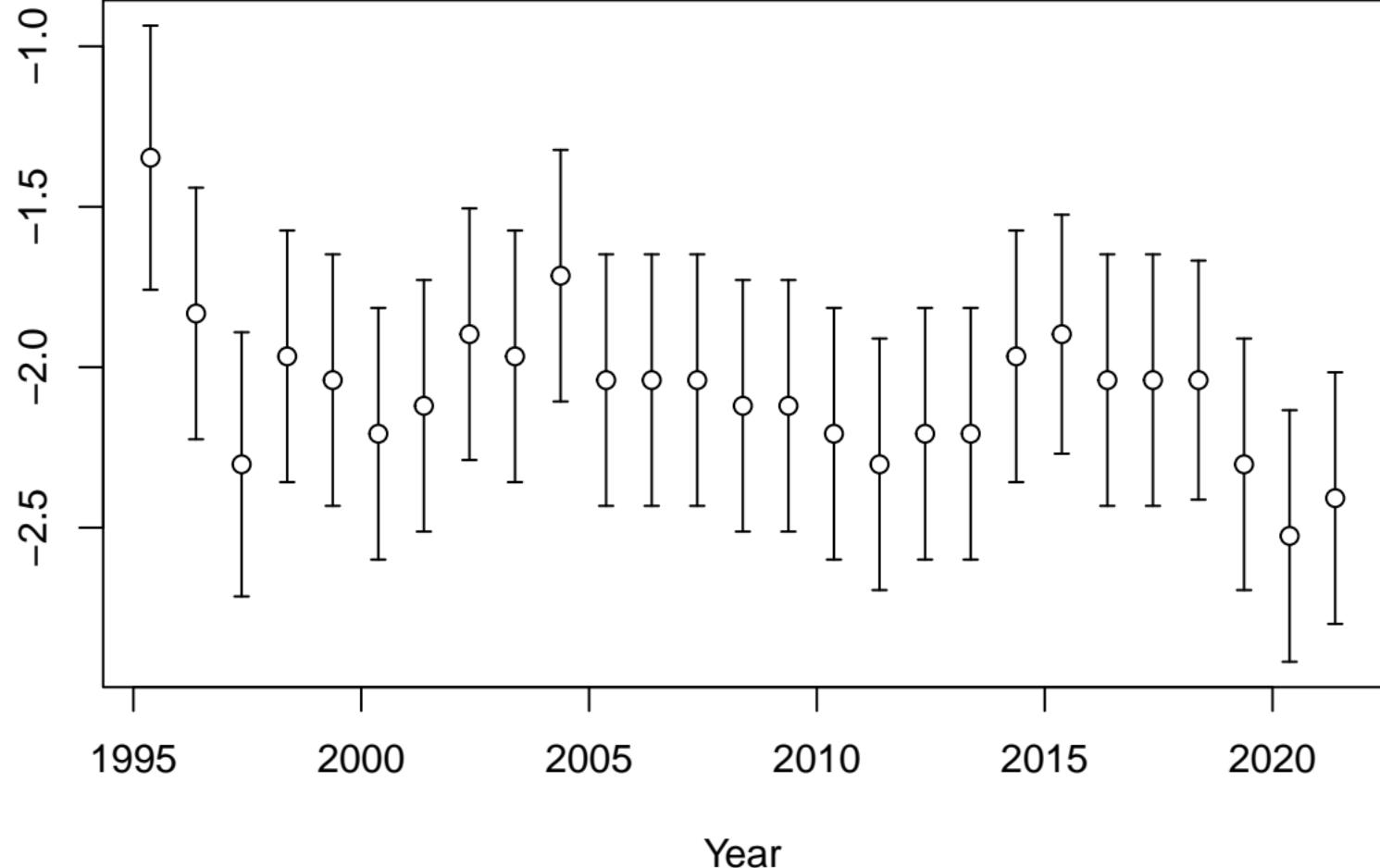
0.00 0.05 0.10 0.15

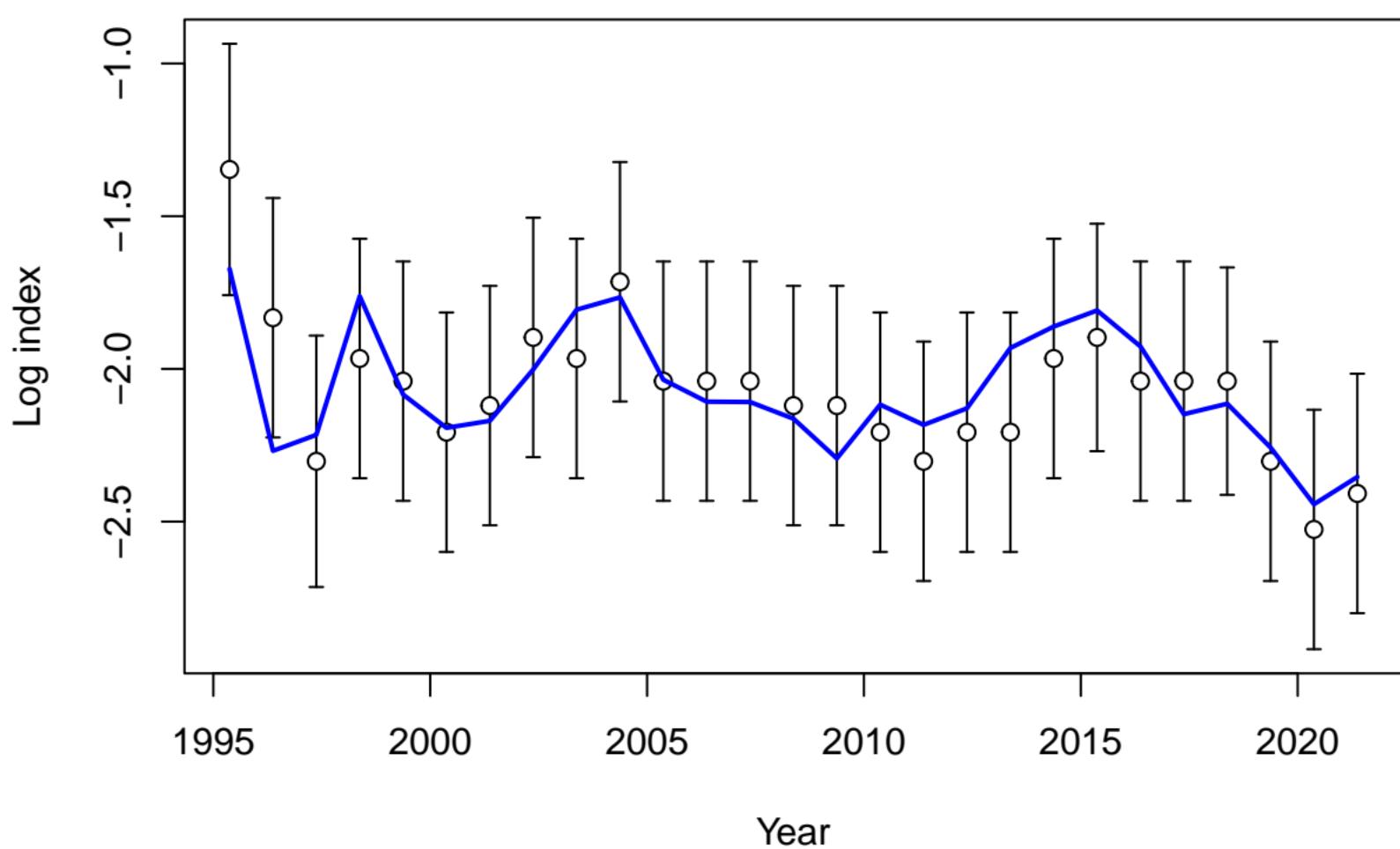
0.00 0.05 0.10 0.15 0.20 0.25

Observed index



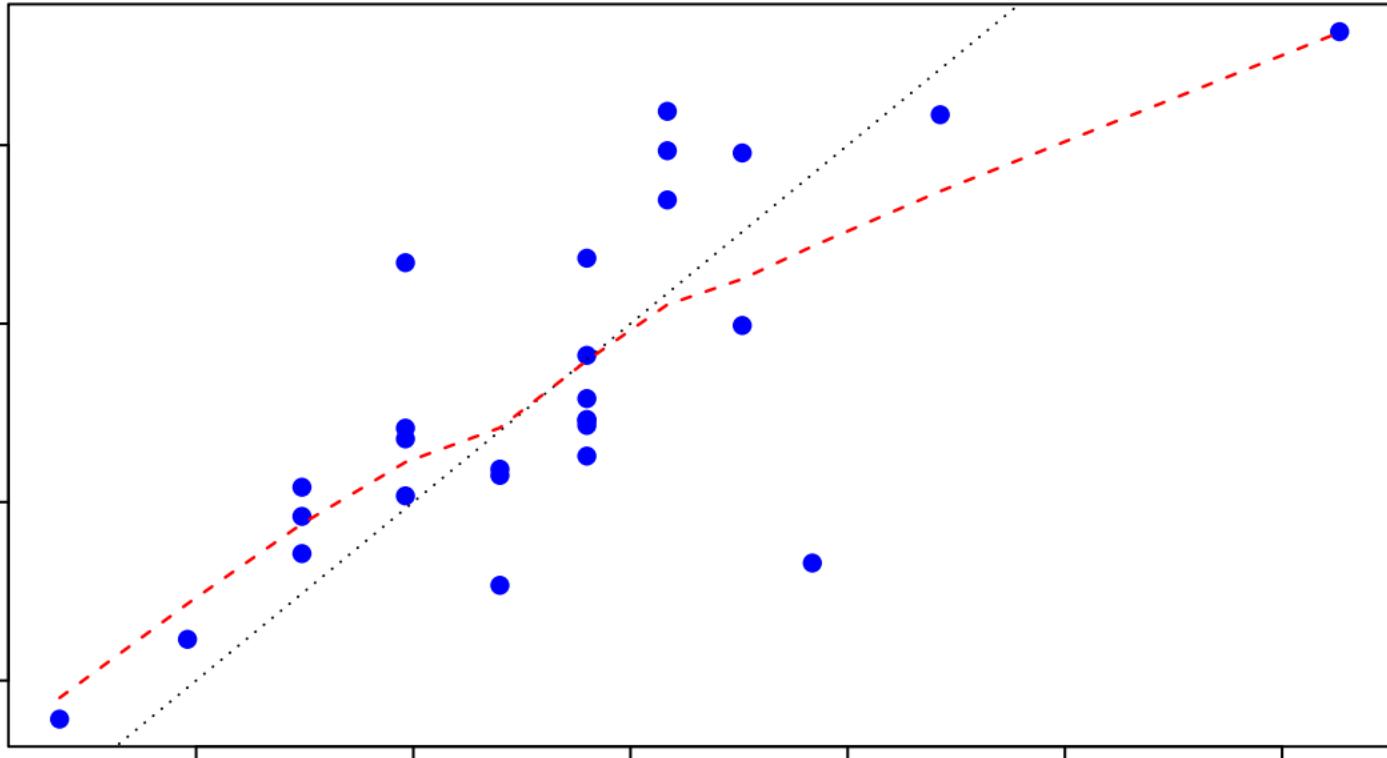
Log index





Log expected index

-2.4  
-2.2  
-2.0  
-1.8



Log observed index

-1.6

-1.4

Residual

2

1

0

-1

-2

1995

2000

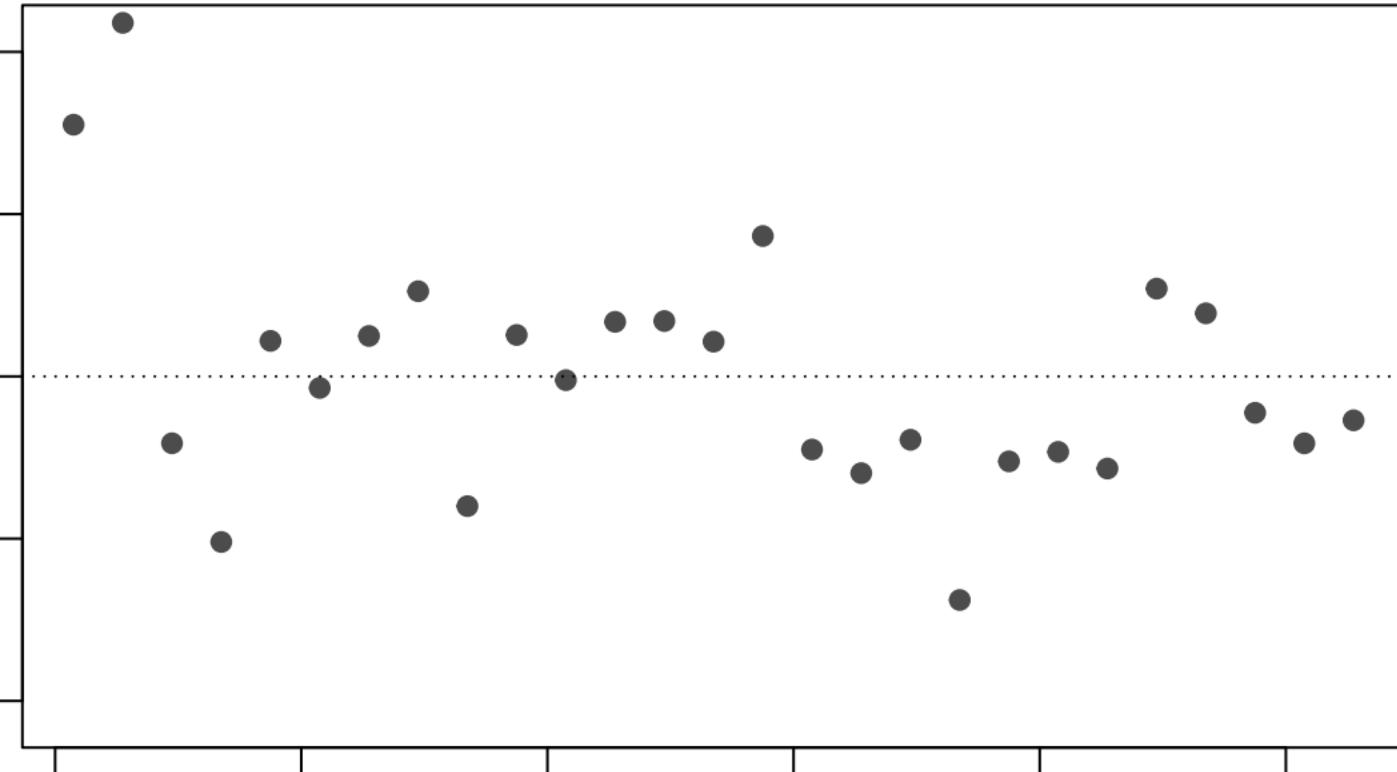
2005

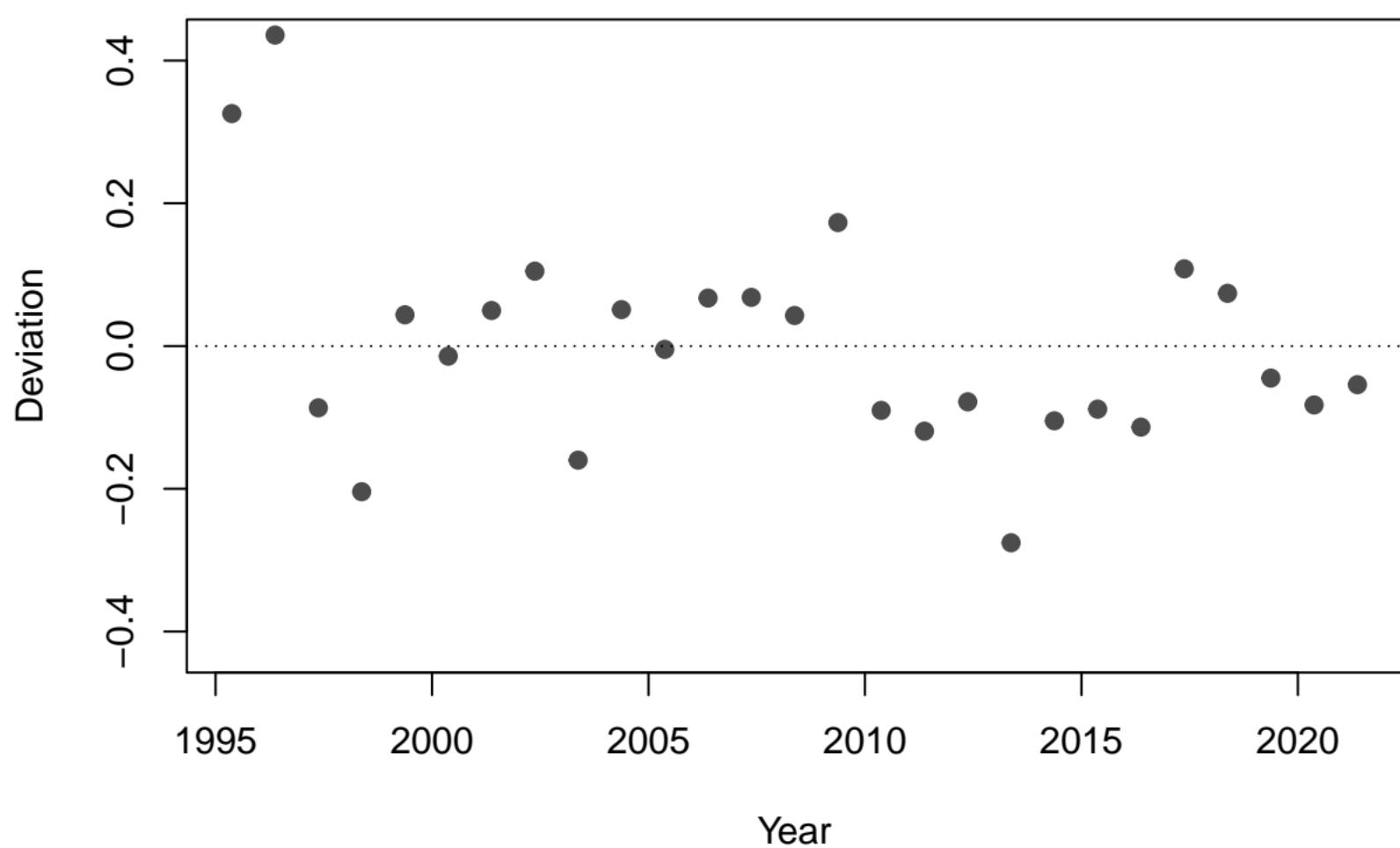
2010

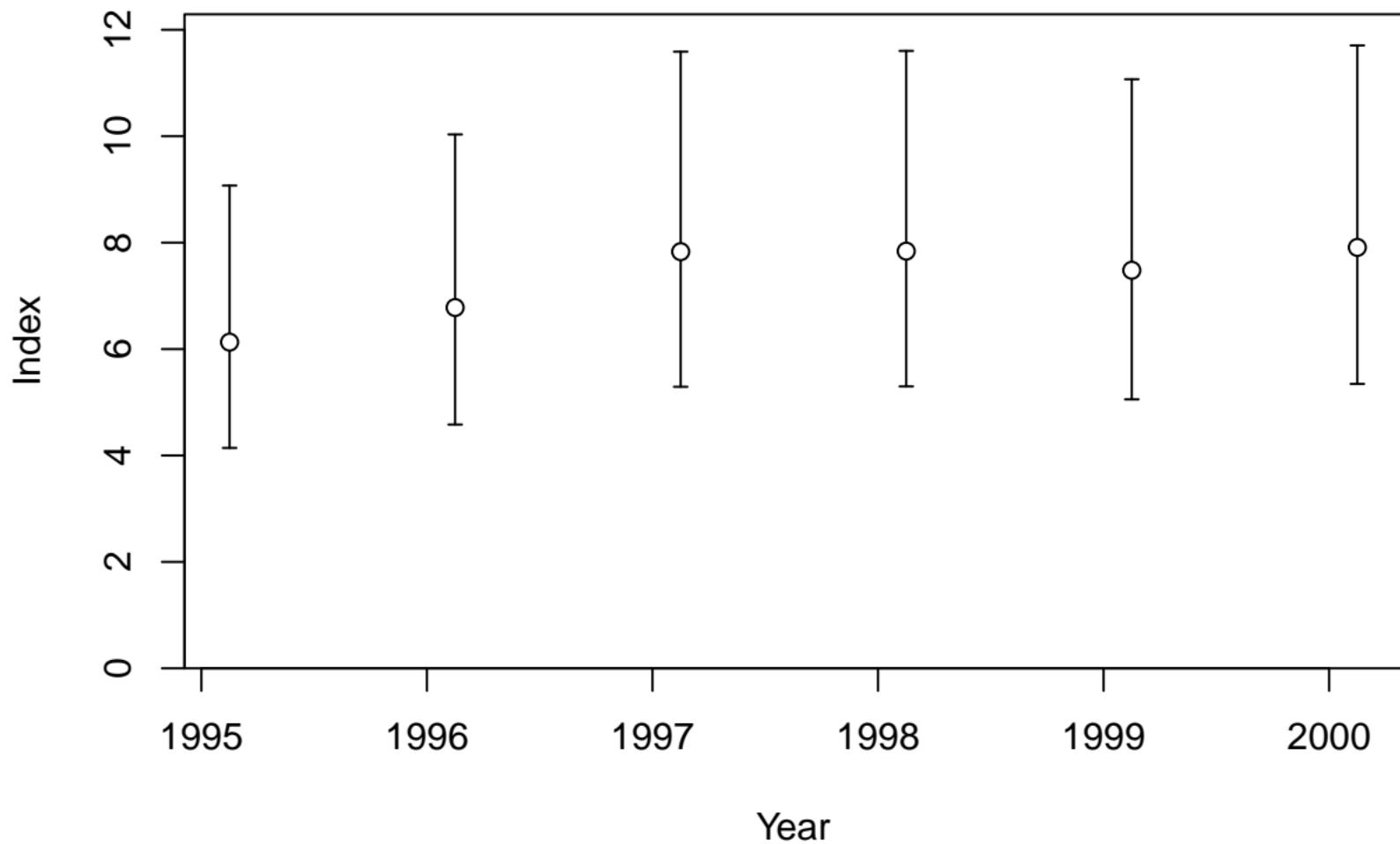
2015

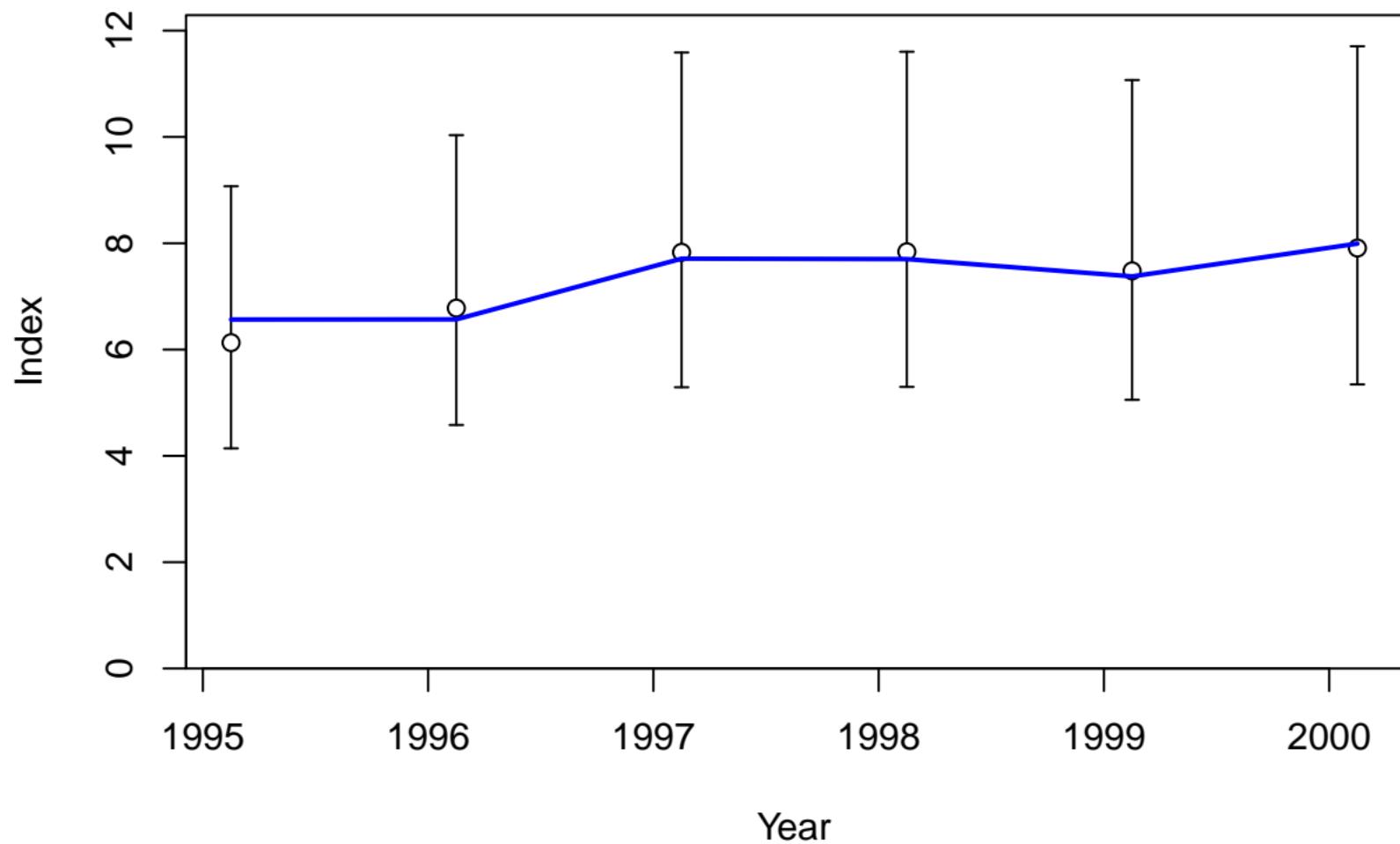
2020

Year

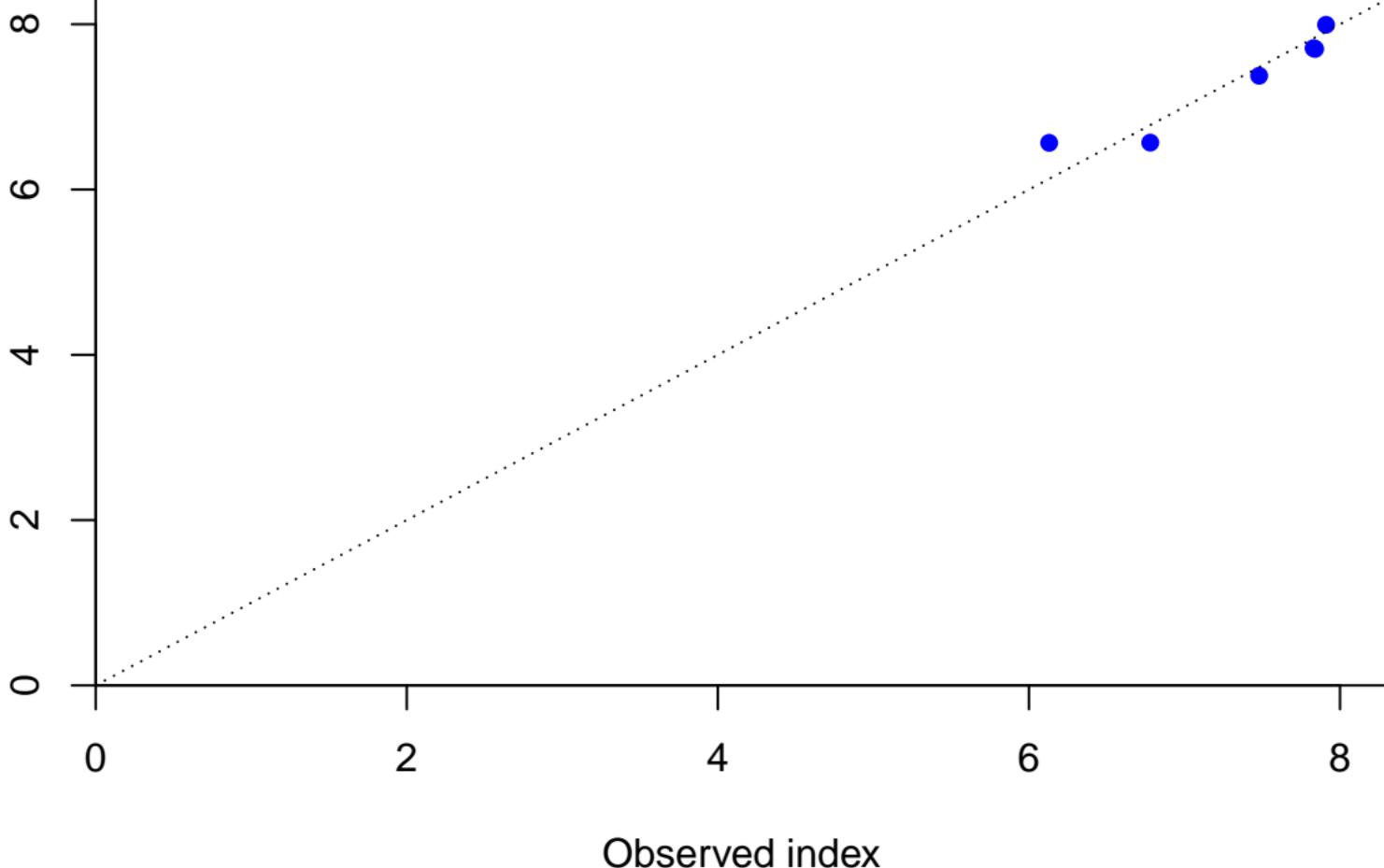








Expected index



Log index

1.4 1.6 1.8 2.0 2.2 2.4

1995

1996

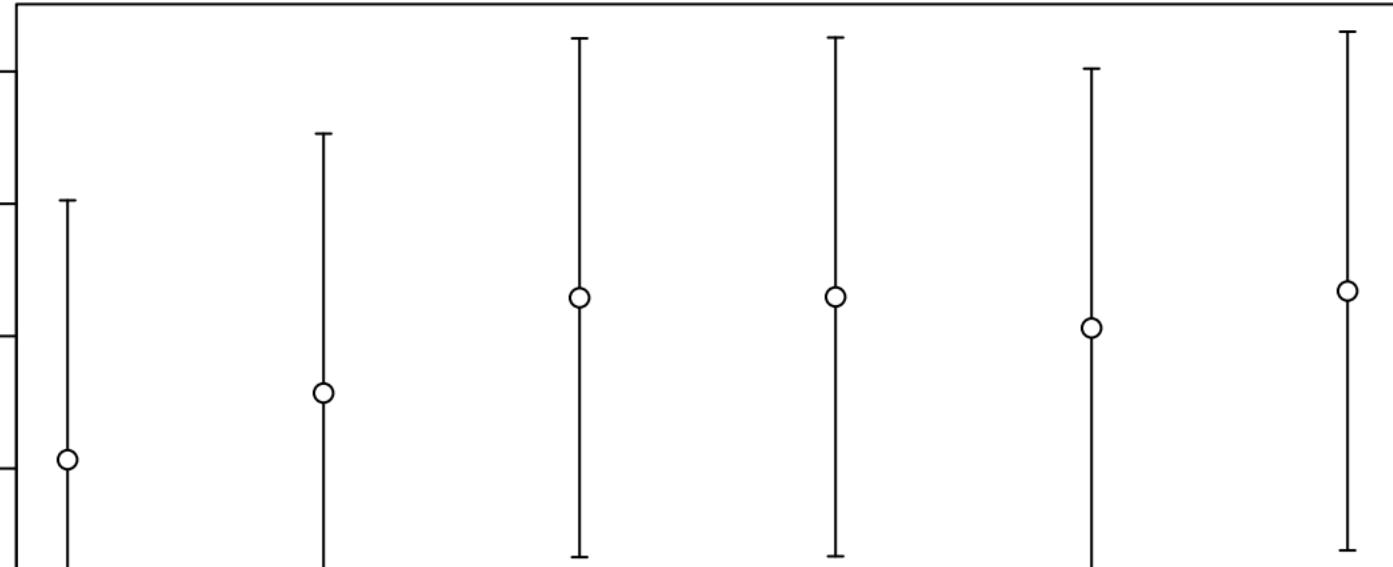
1997

1998

1999

2000

Year

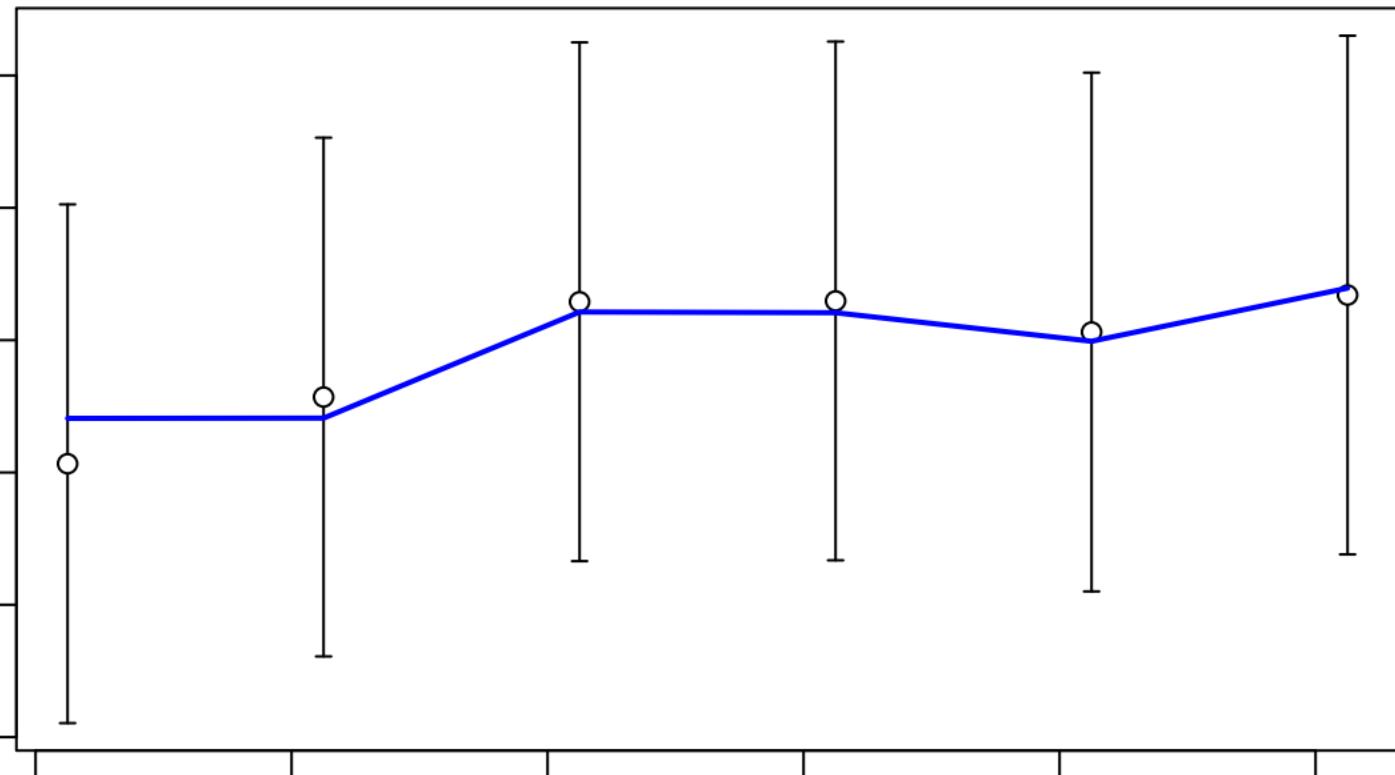


Log index

2.4  
2.2  
2.0  
1.8  
1.6  
1.4

1995 1996 1997 1998 1999 2000

Year



Log expected index

1.90 1.95 2.00 2.05

1.85

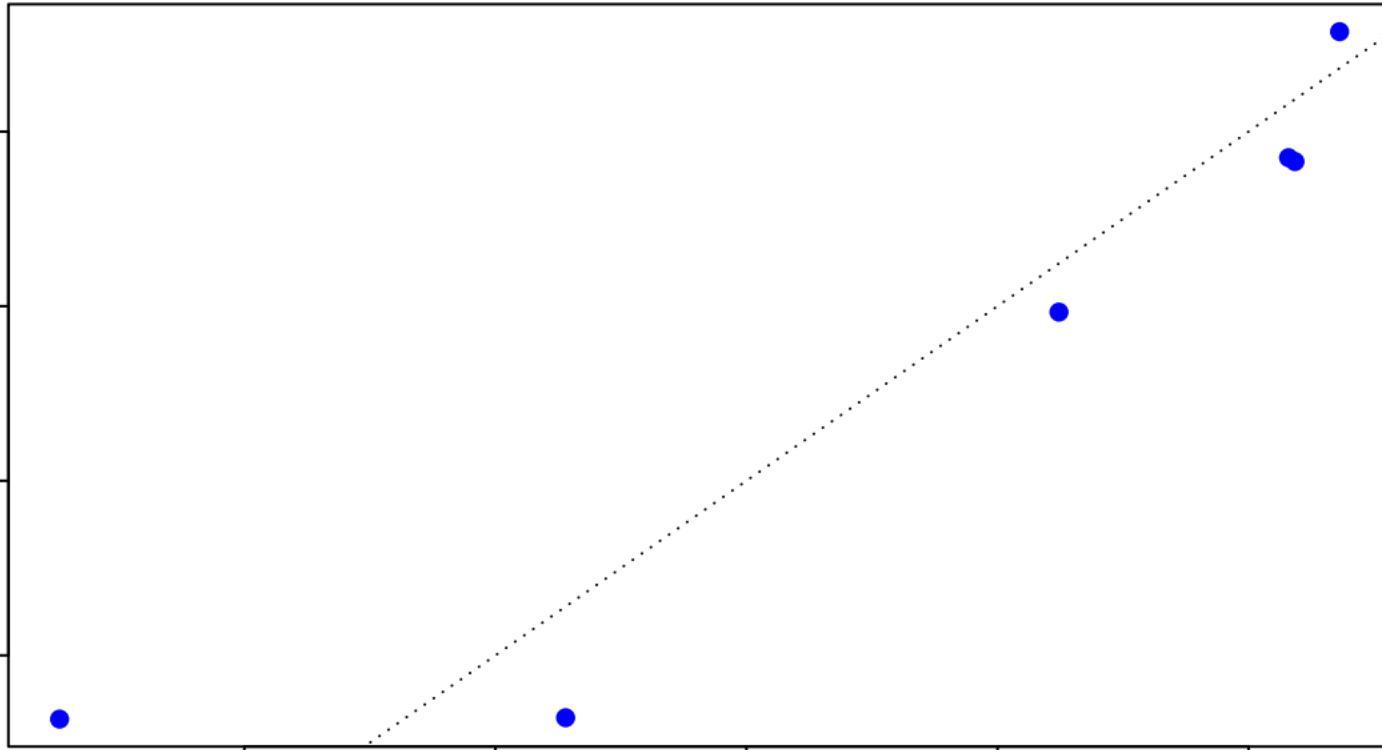
1.90

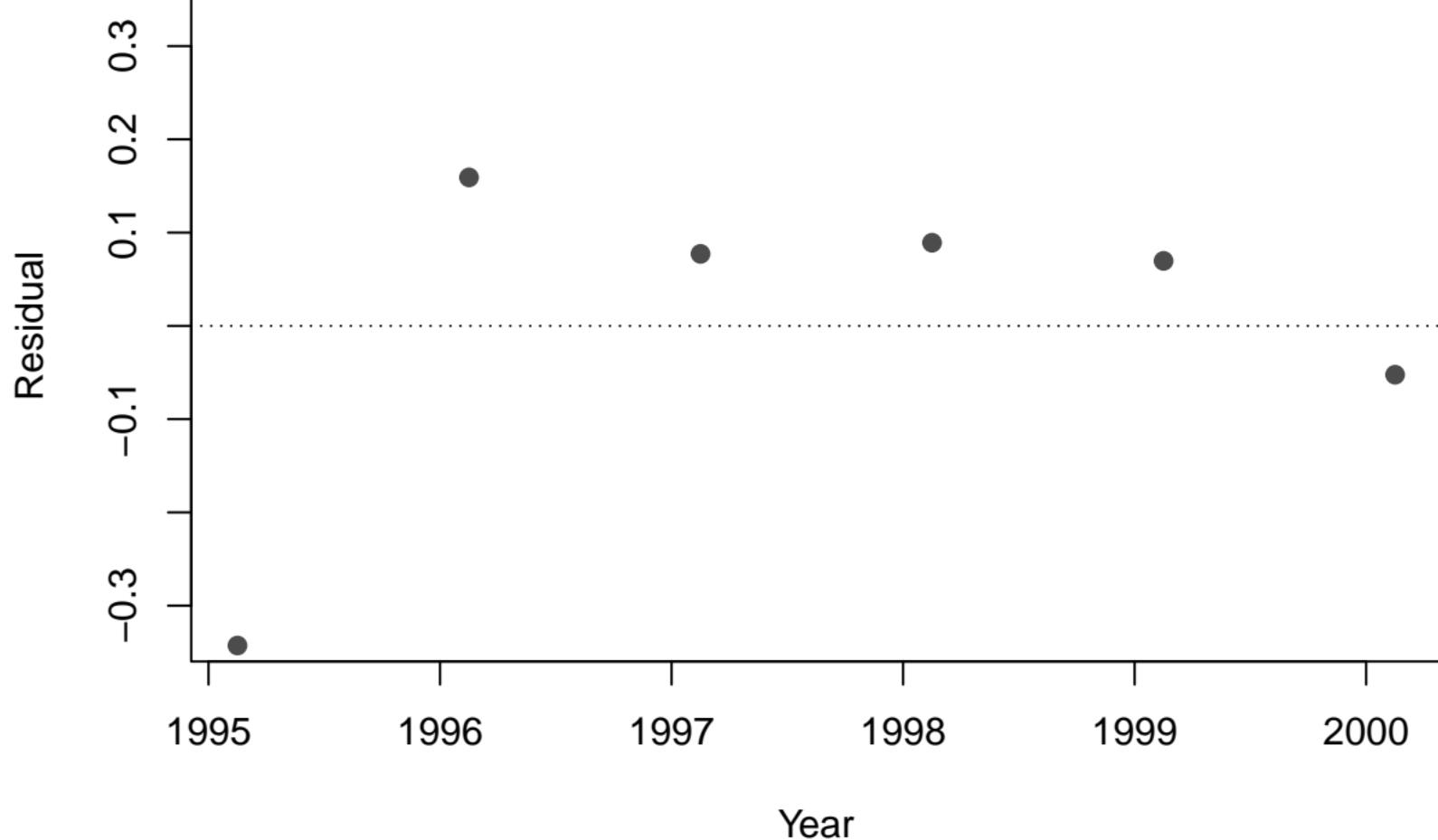
1.95

2.00

2.05

Log observed index



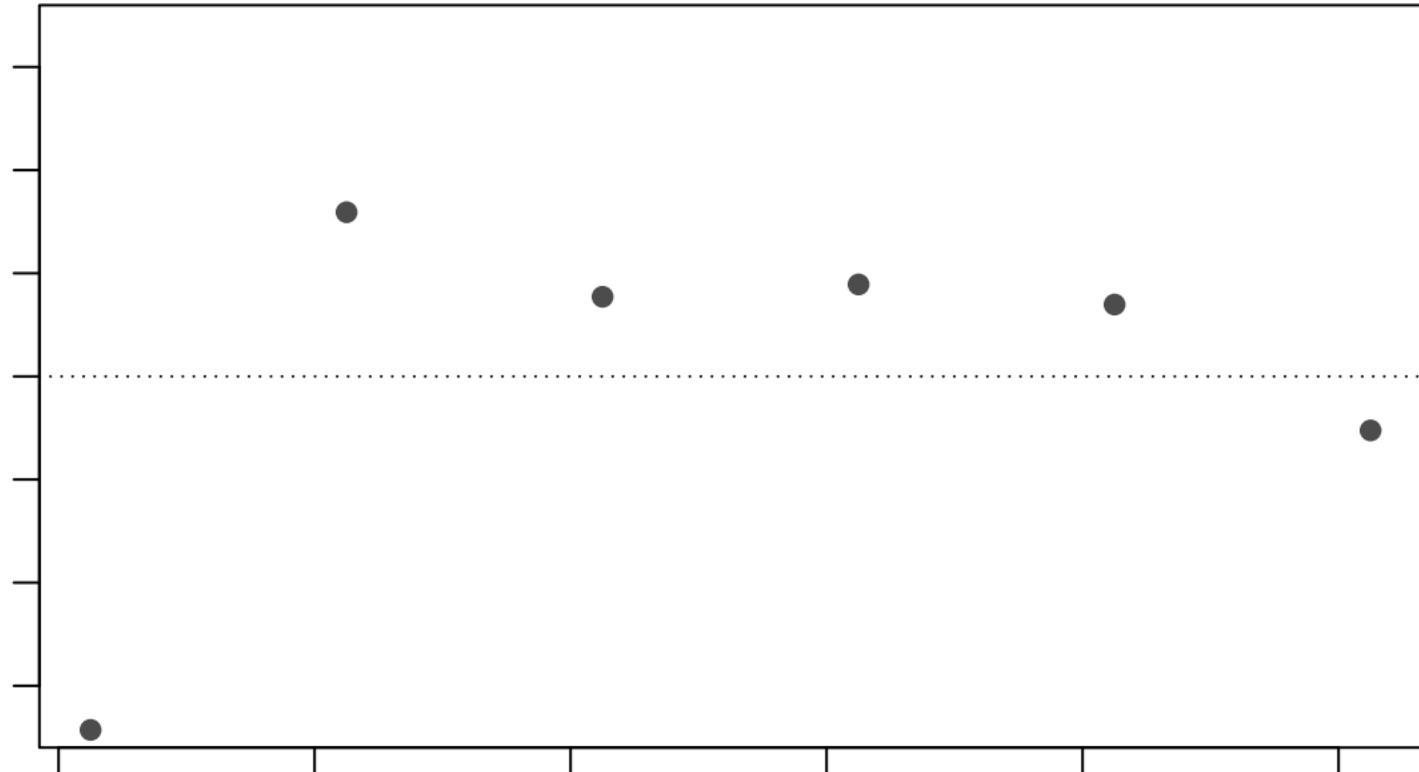


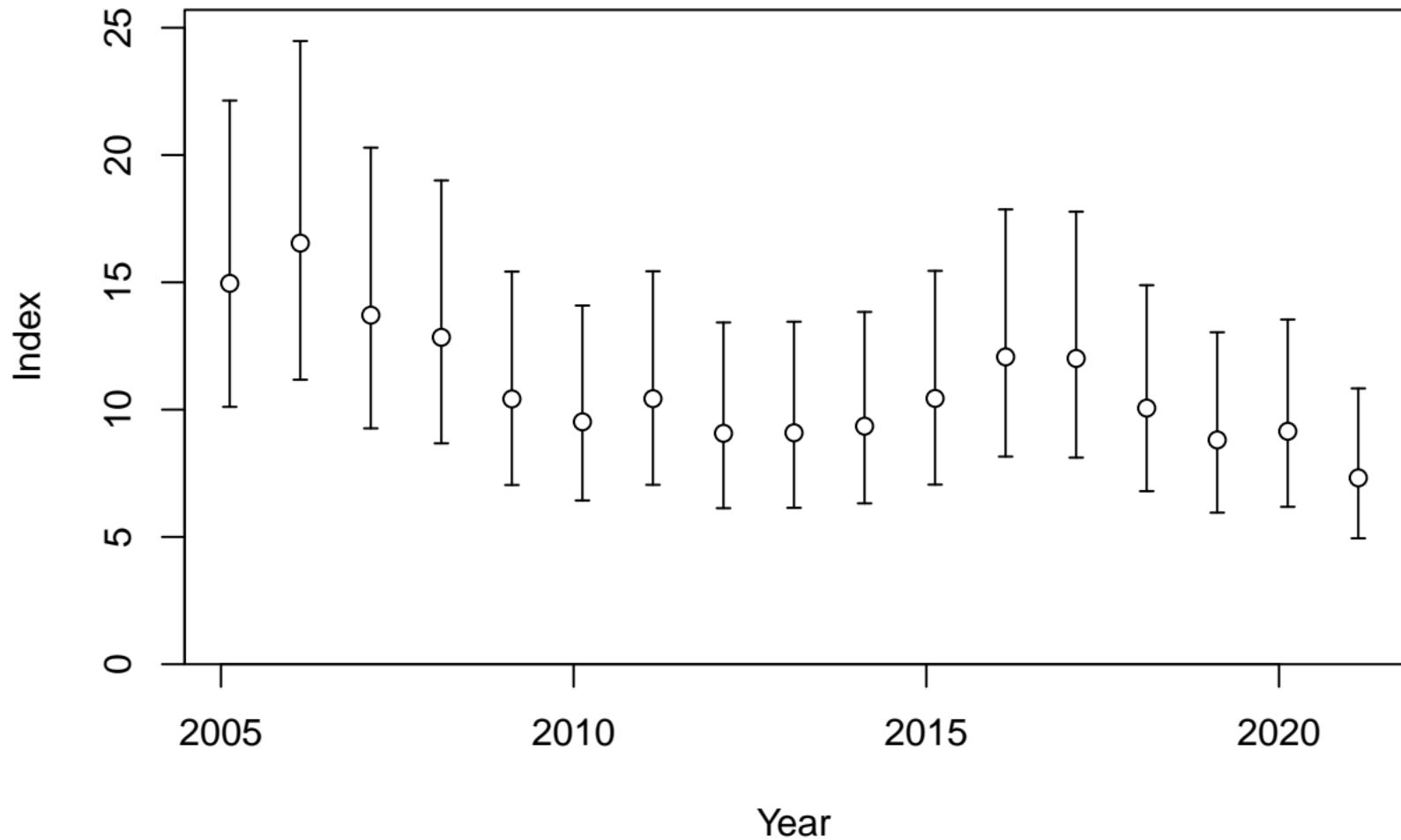
Deviation

0.06  
0.02  
-0.02  
-0.06

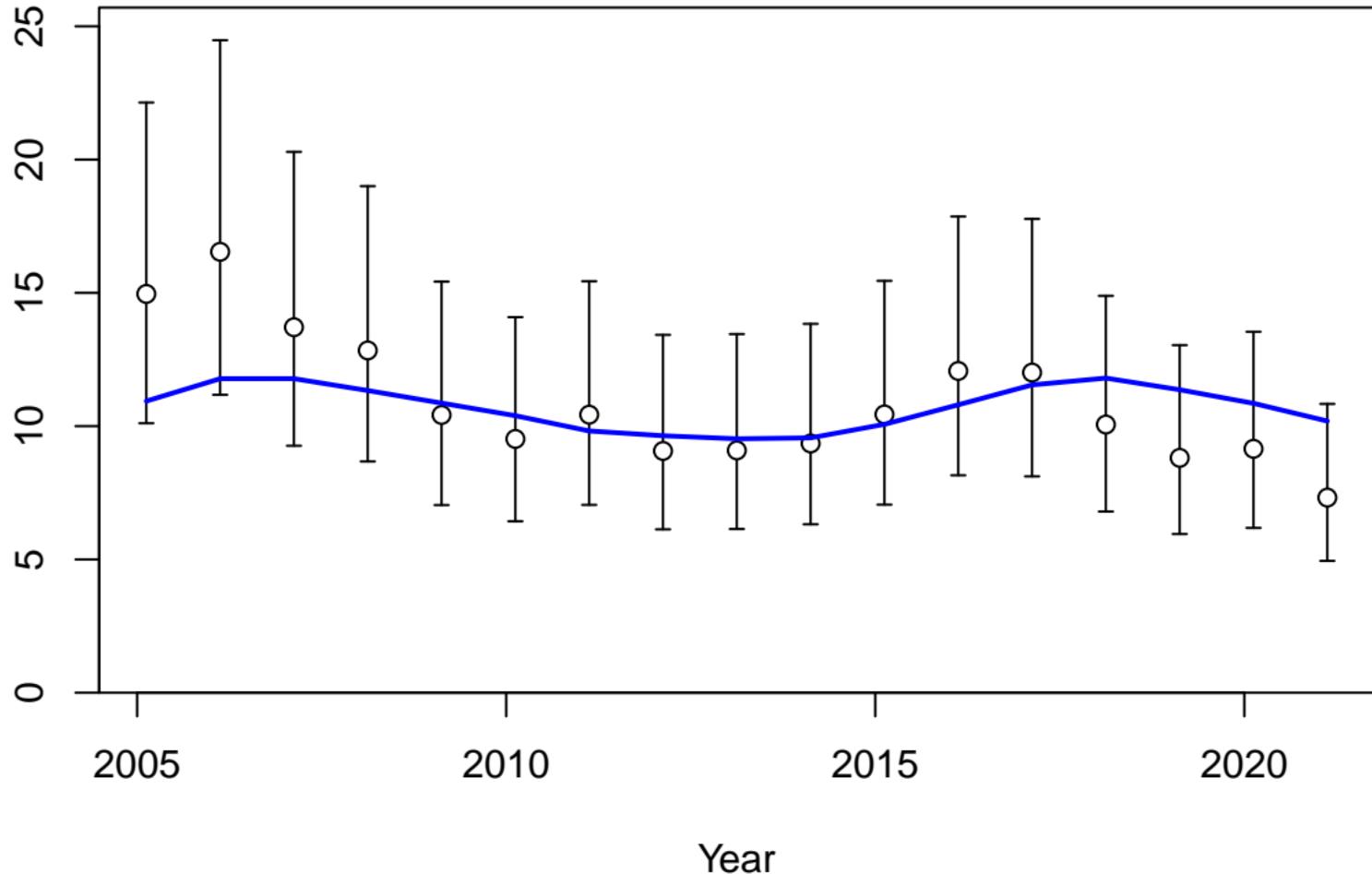
1995 1996 1997 1998 1999 2000

Year

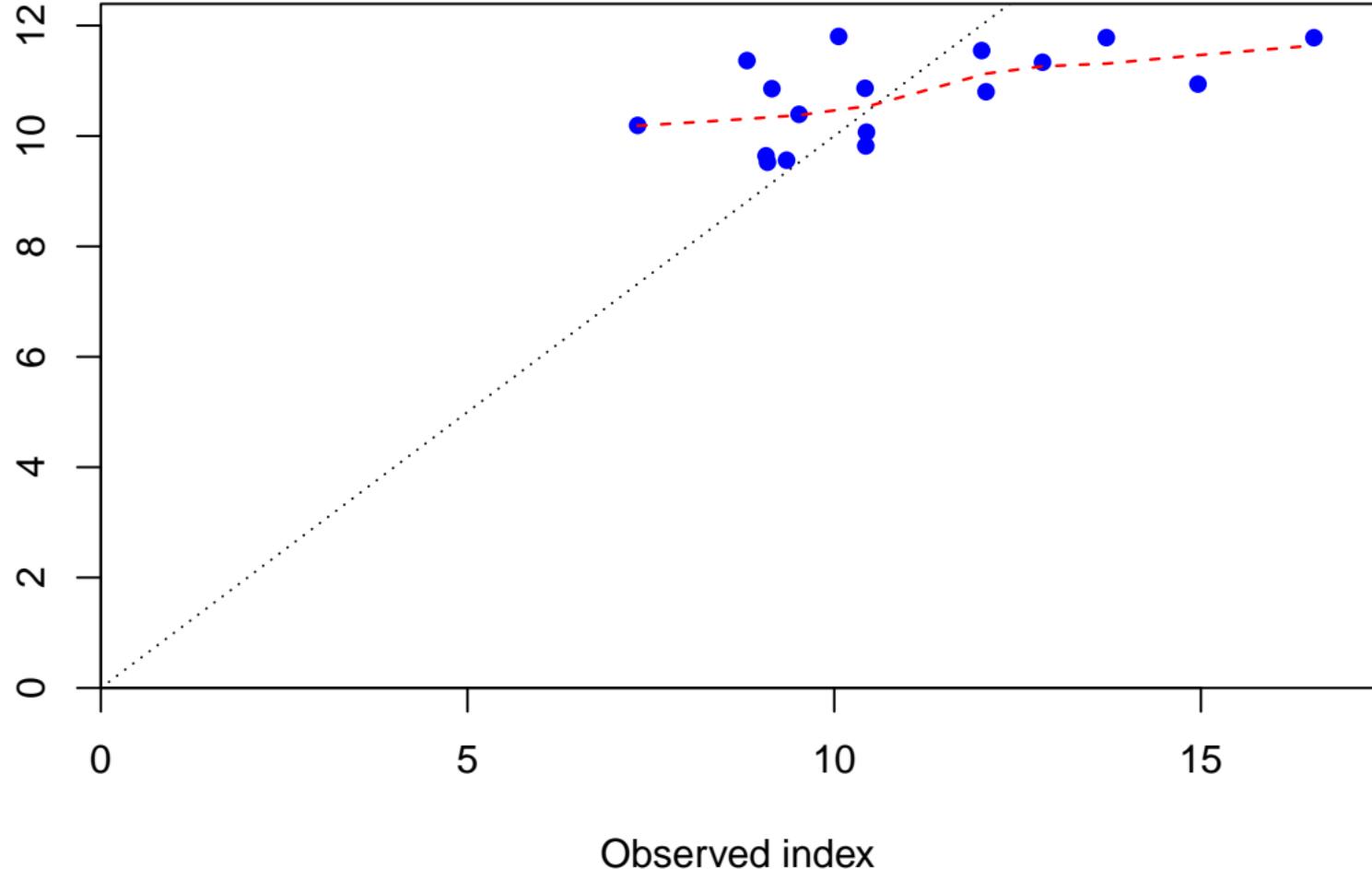




Index



Expected index



Log index

3.0  
2.5  
2.0

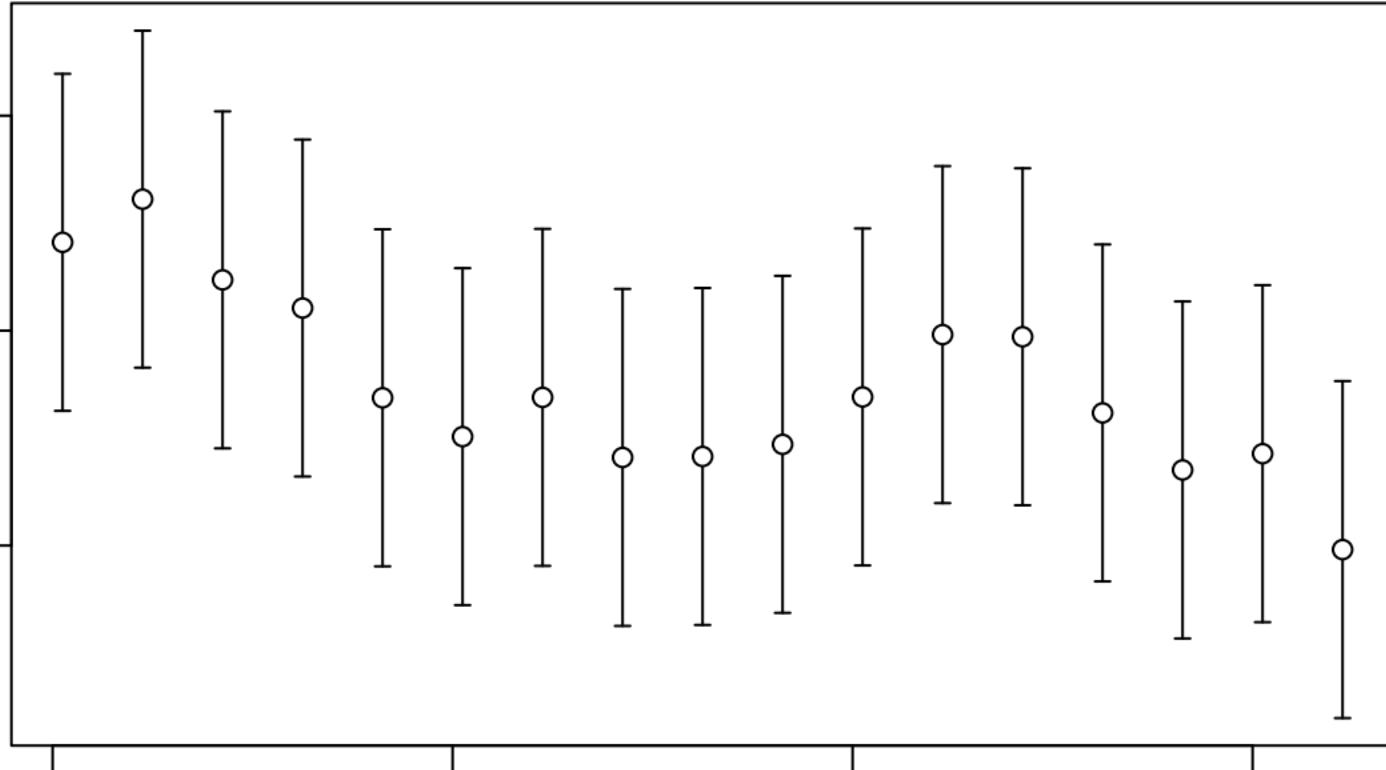
2005

2010

2015

2020

Year

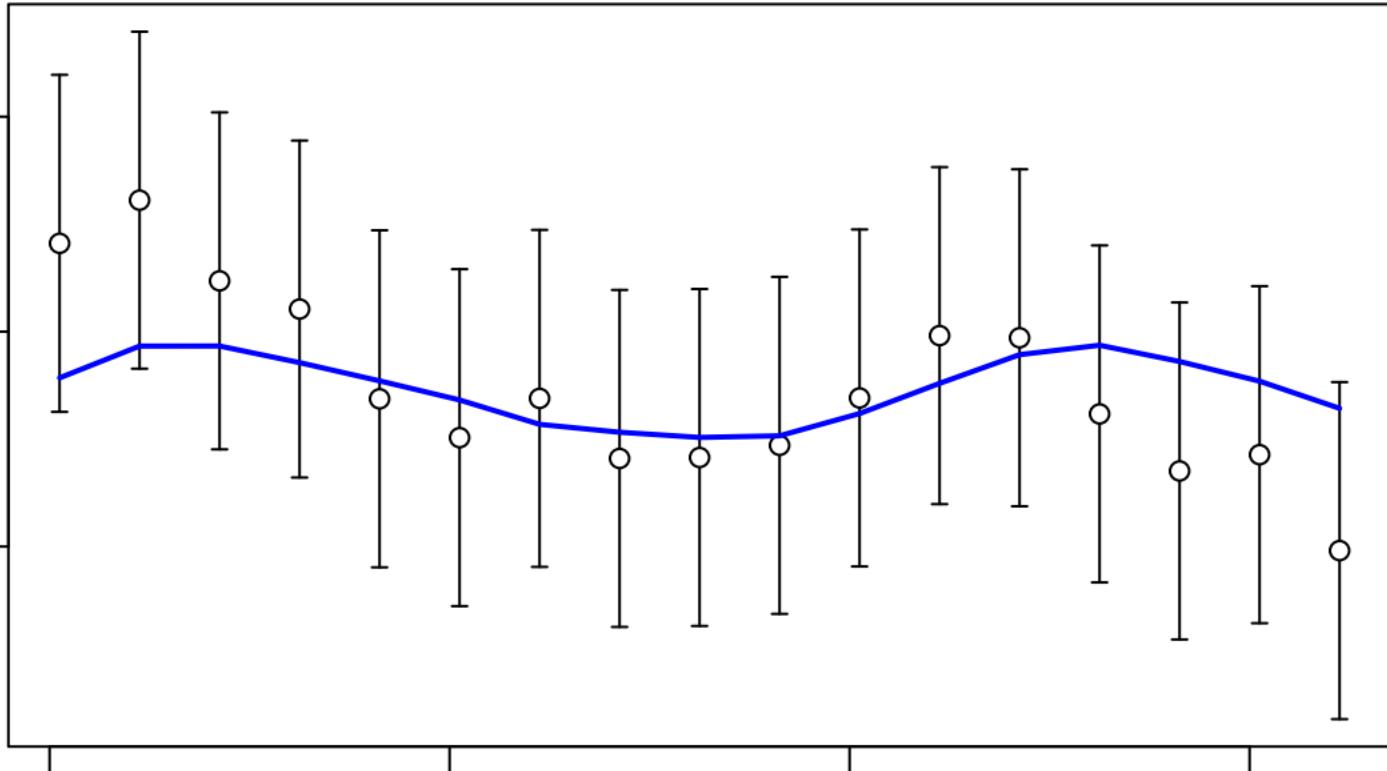


Log index

3.0  
2.5  
2.0

2005 2010 2015 2020

Year



Log expected index

2.25 2.30 2.35 2.40 2.45

2.0

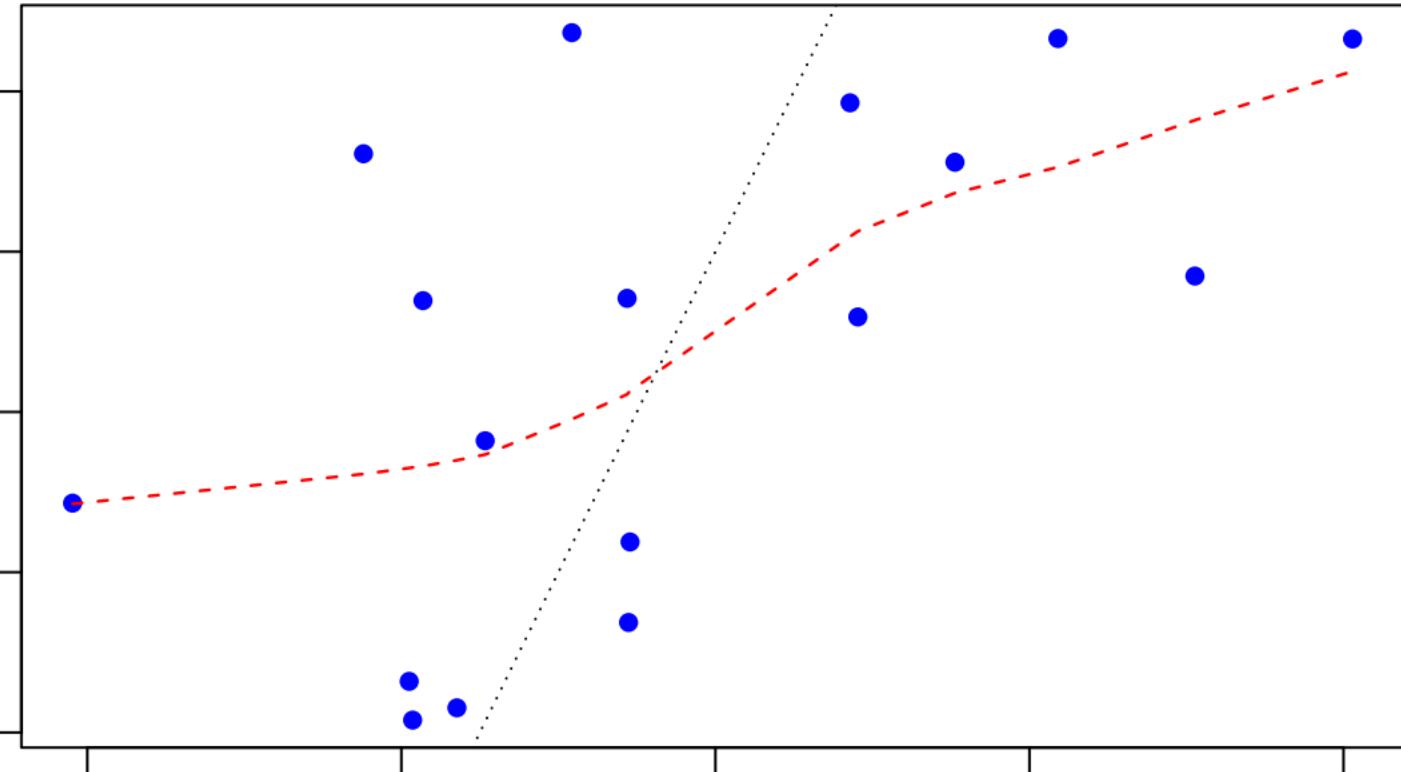
2.2

2.4

2.6

2.8

Log observed index

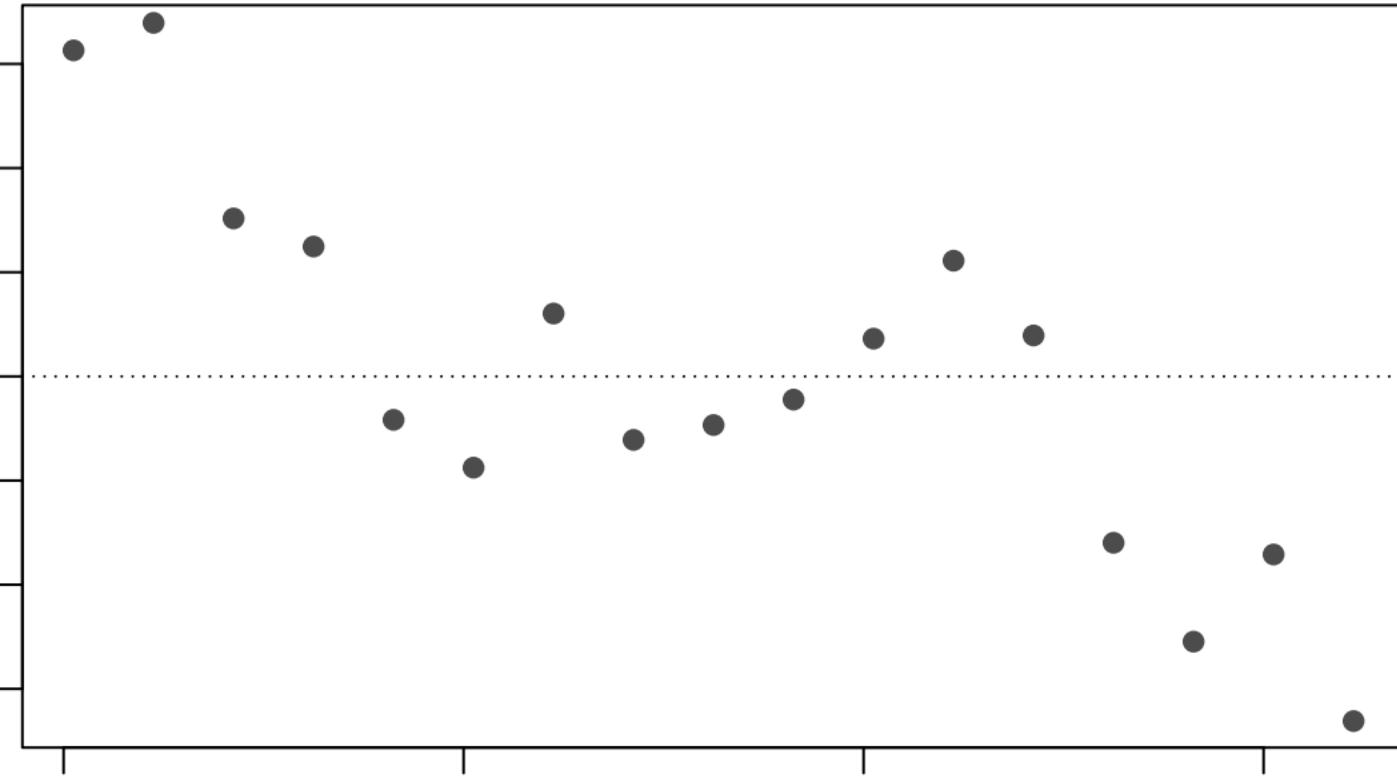


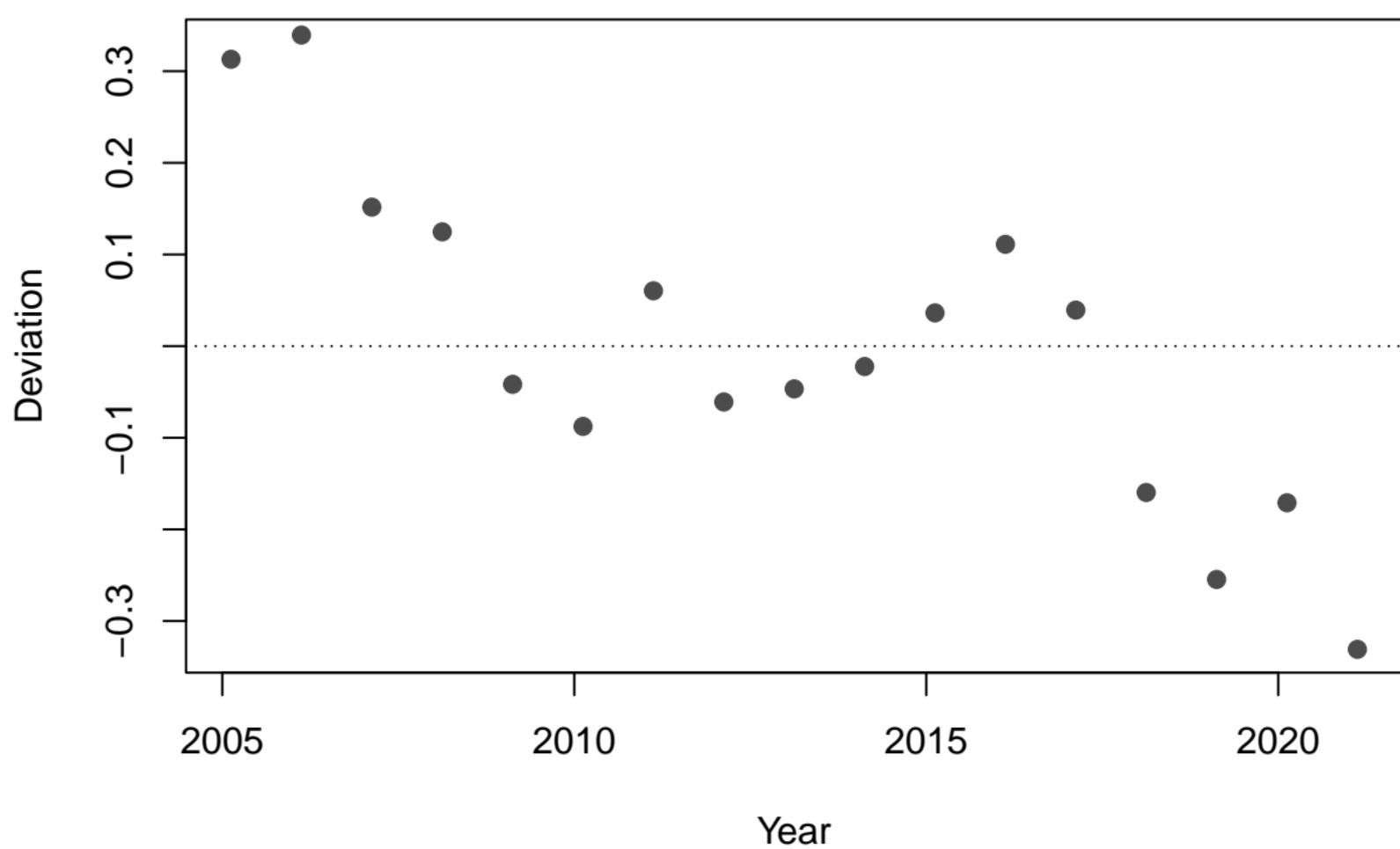
Residual

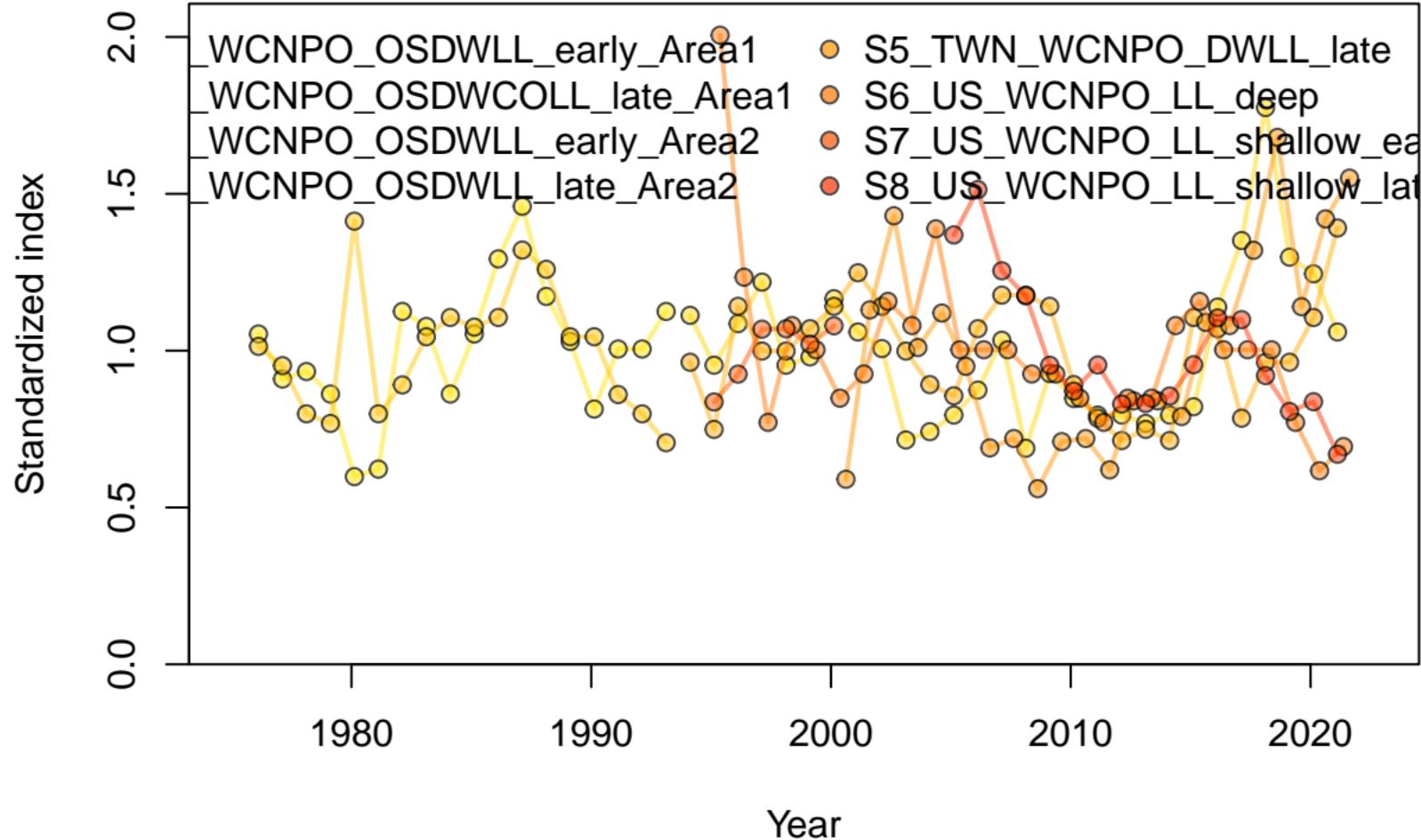
-1.5  
-0.5  
0.5  
1.0  
1.5

2005 2010 2015 2020

Year





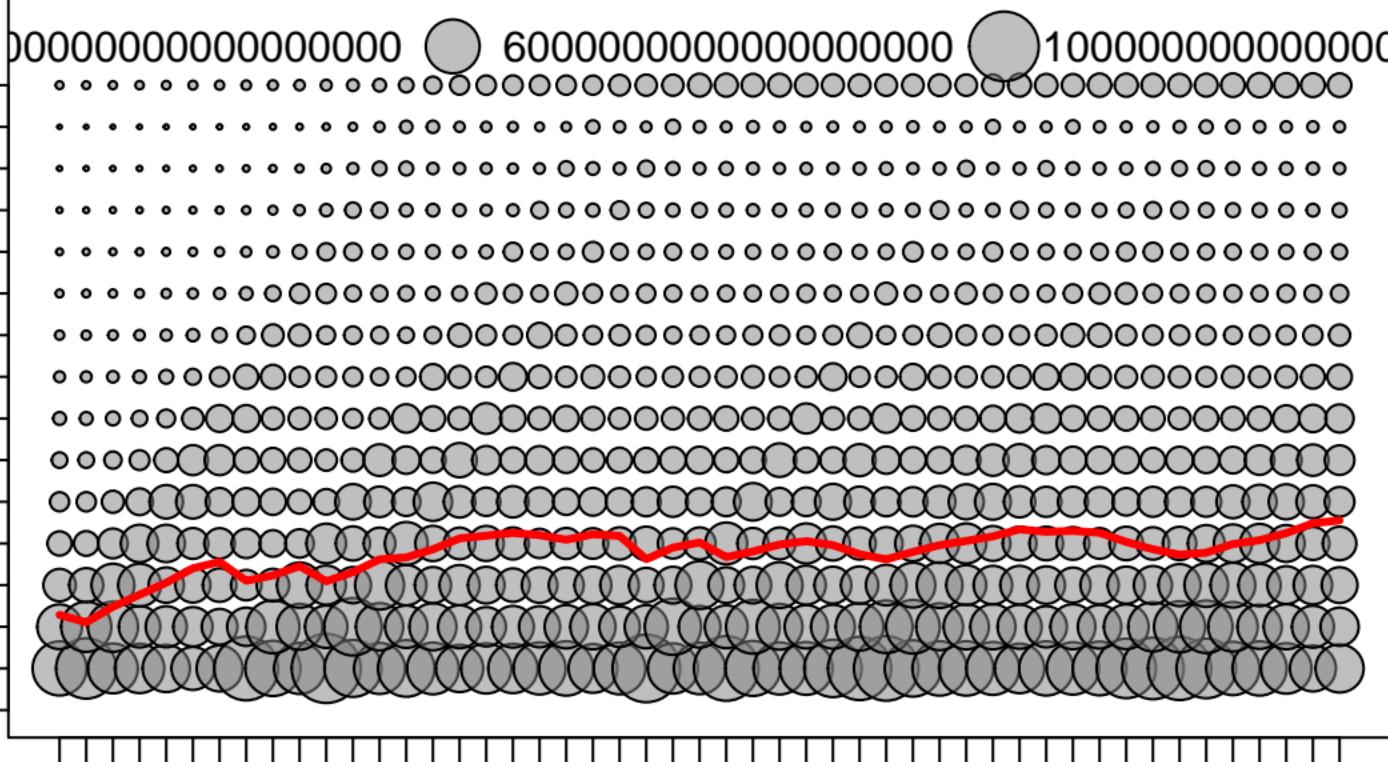


Age

15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0

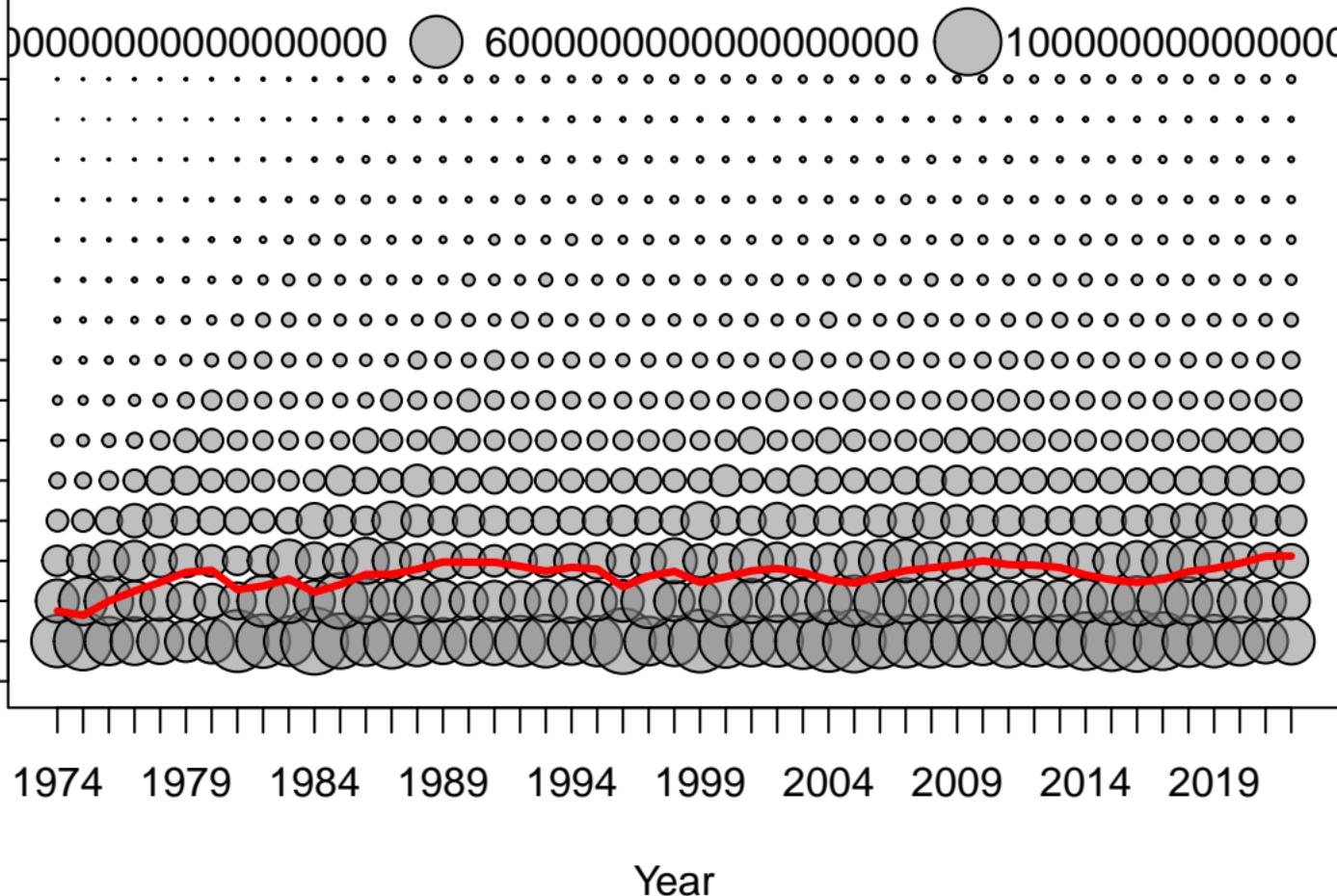
1974 1979 1984 1989 1994 1999 2004 2009 2014 2019

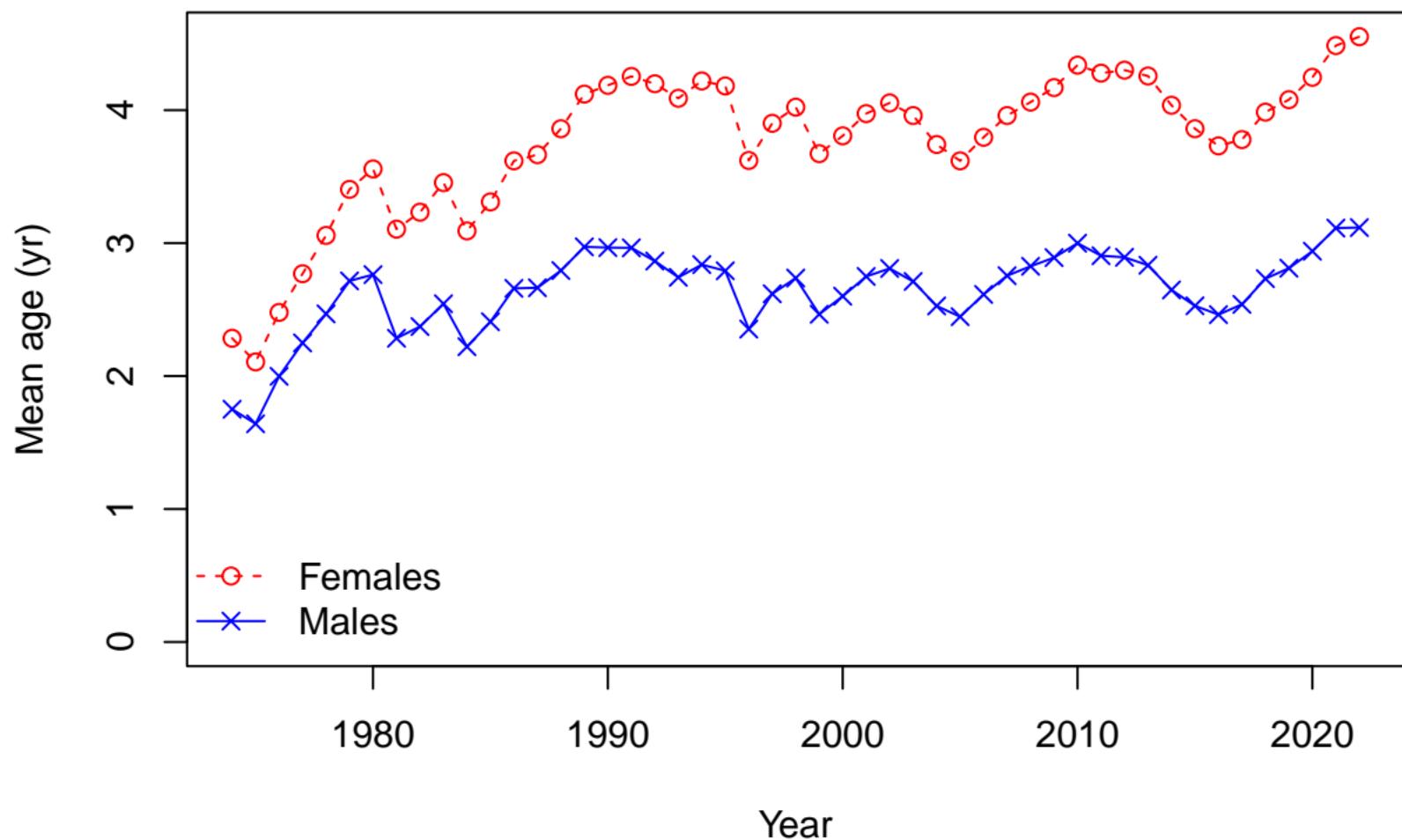
Year



Age

15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0



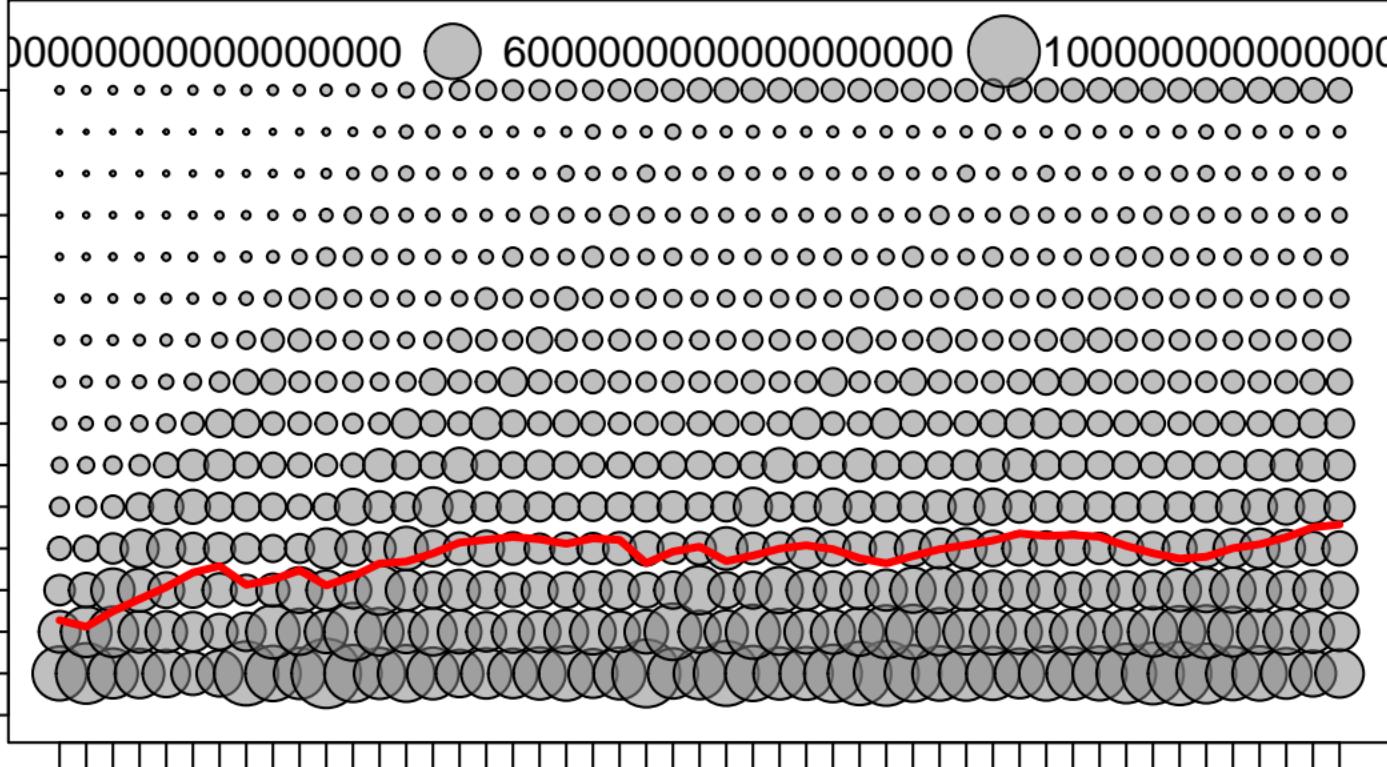


Age

15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0

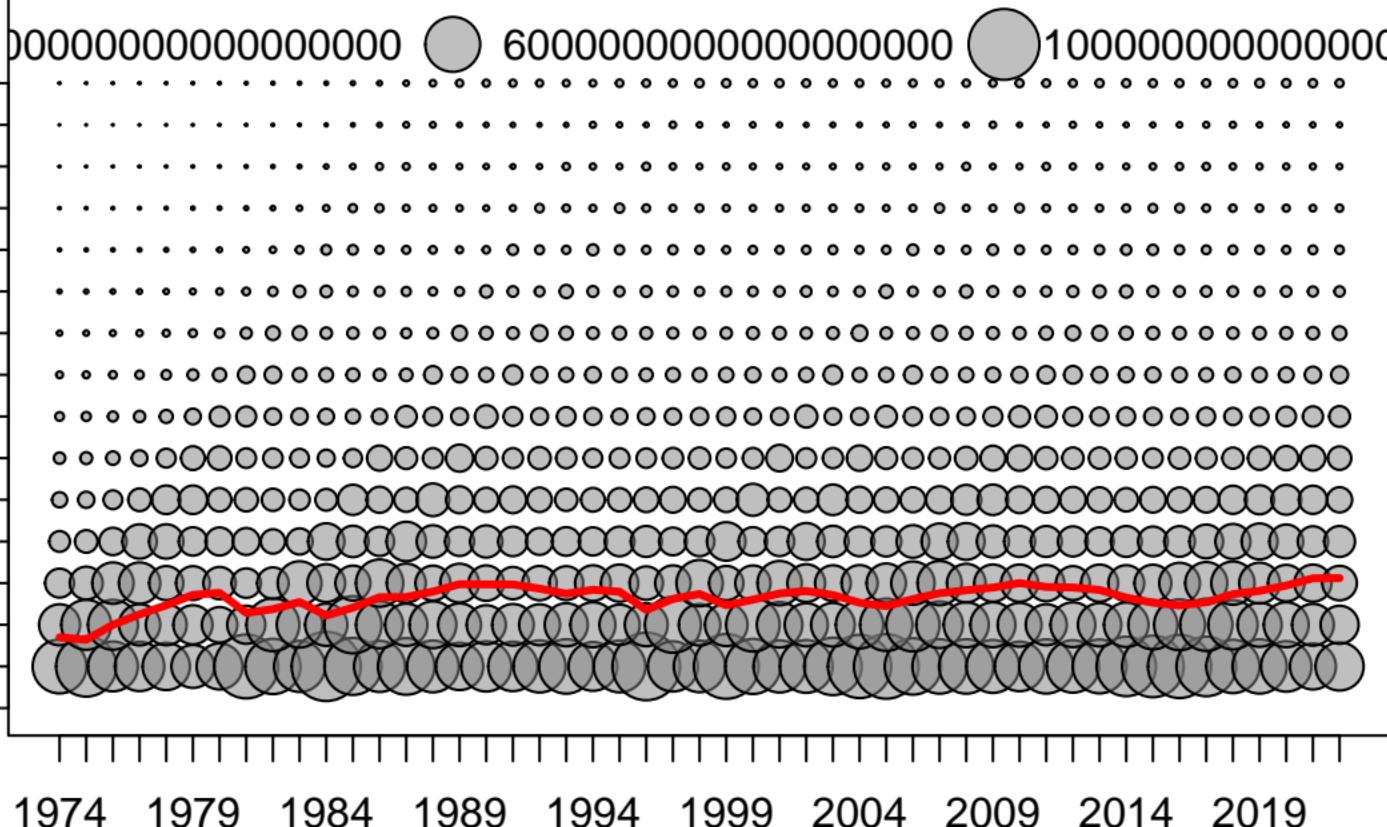
1974 1979 1984 1989 1994 1999 2004 2009 2014 2019

Year

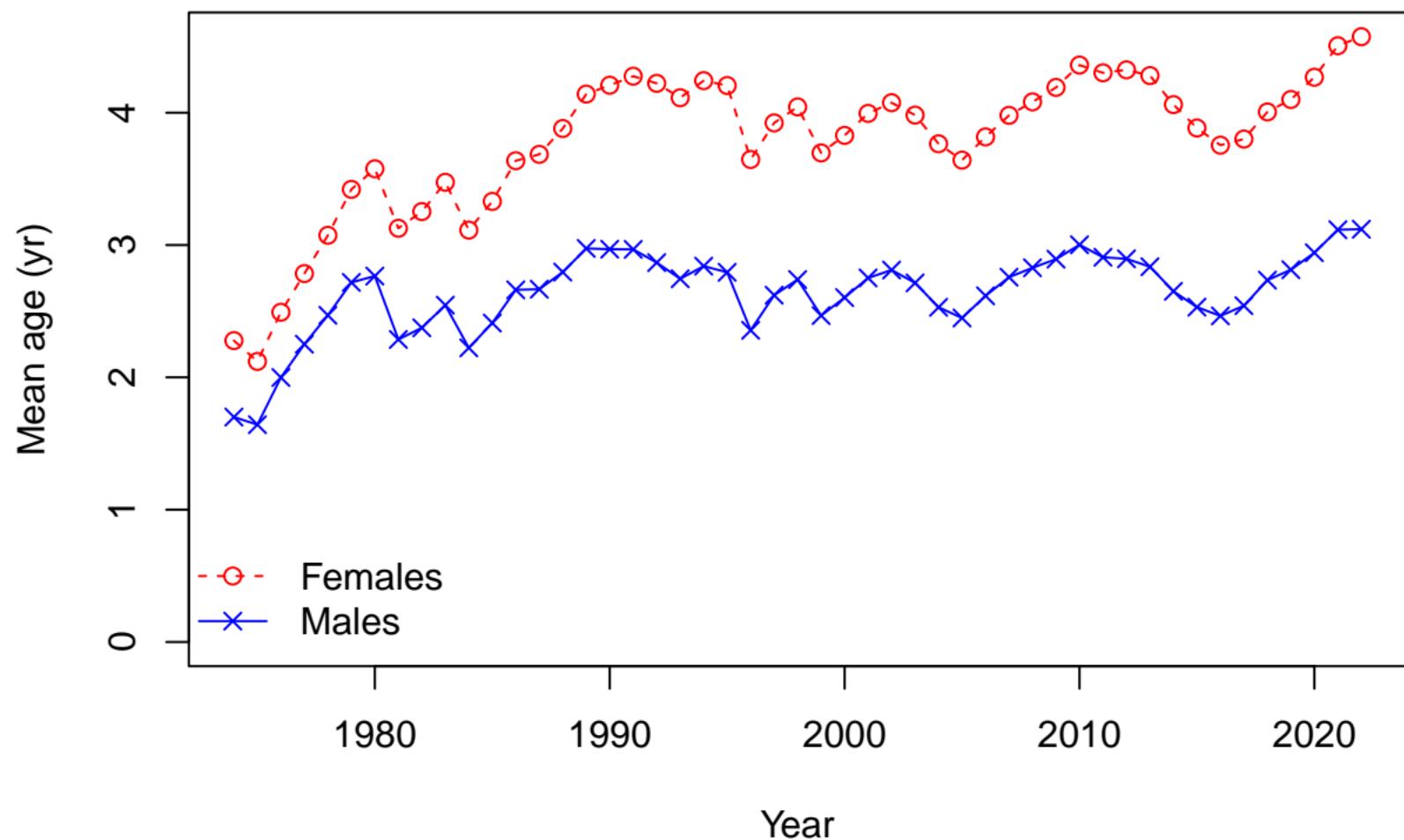


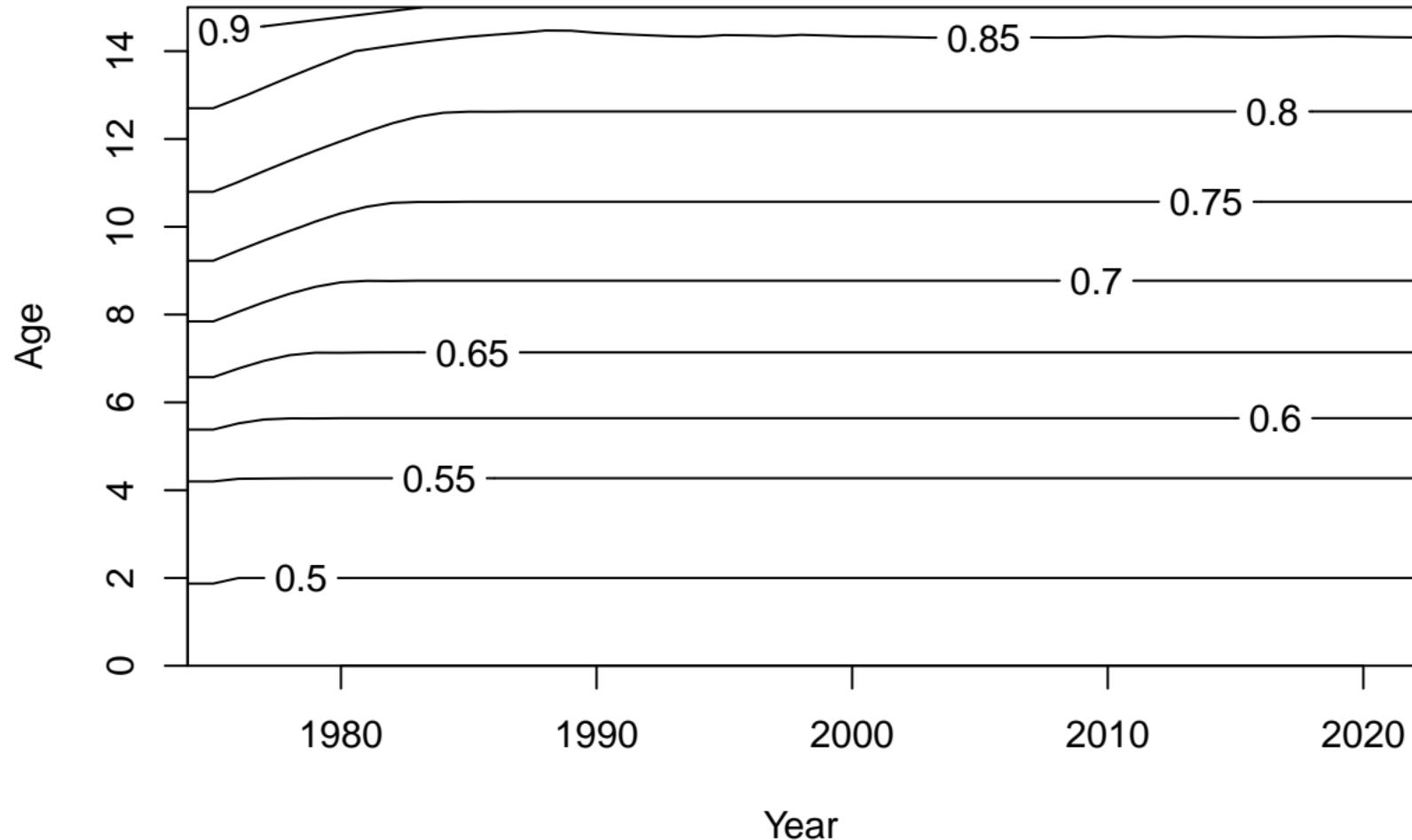
Age

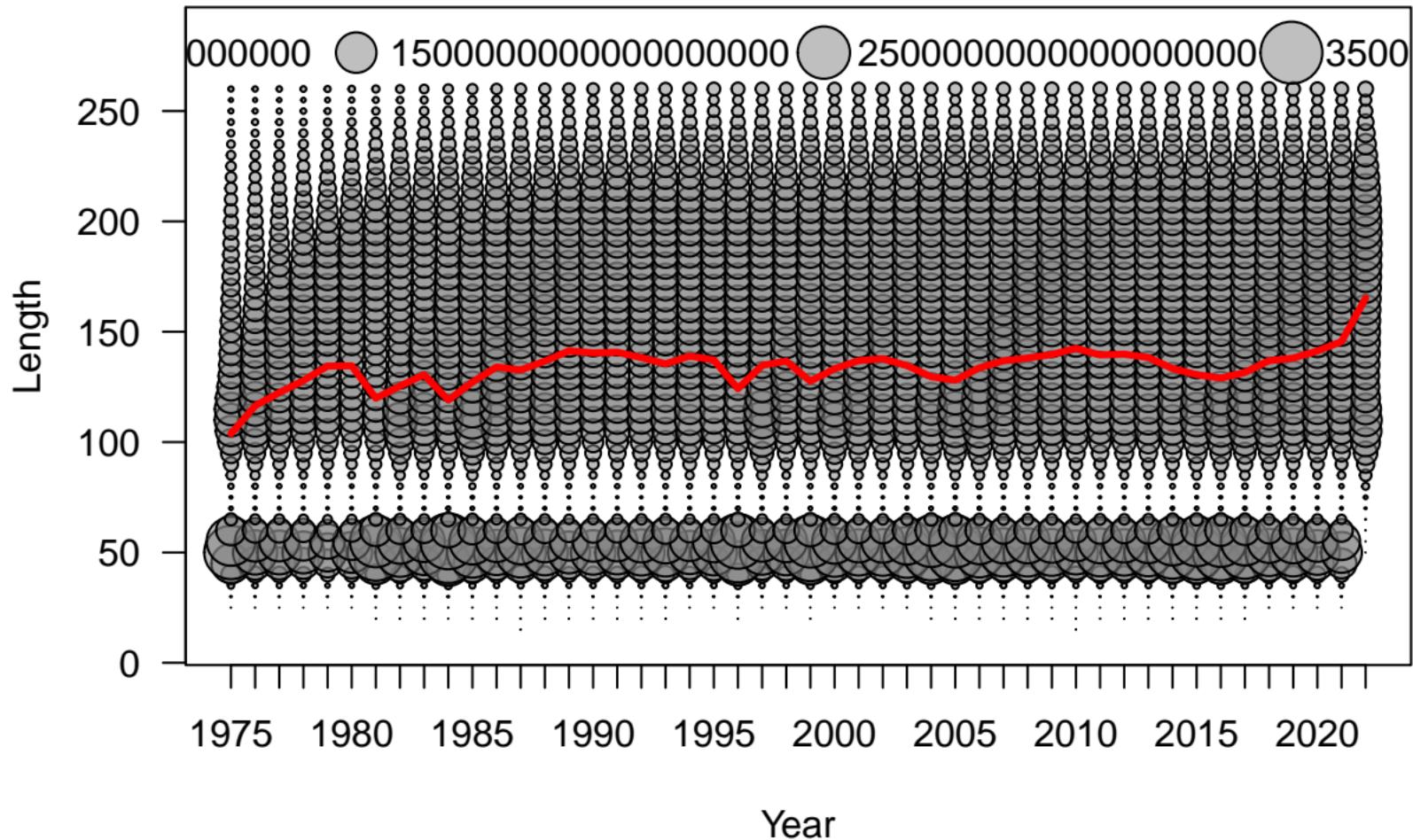
15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0

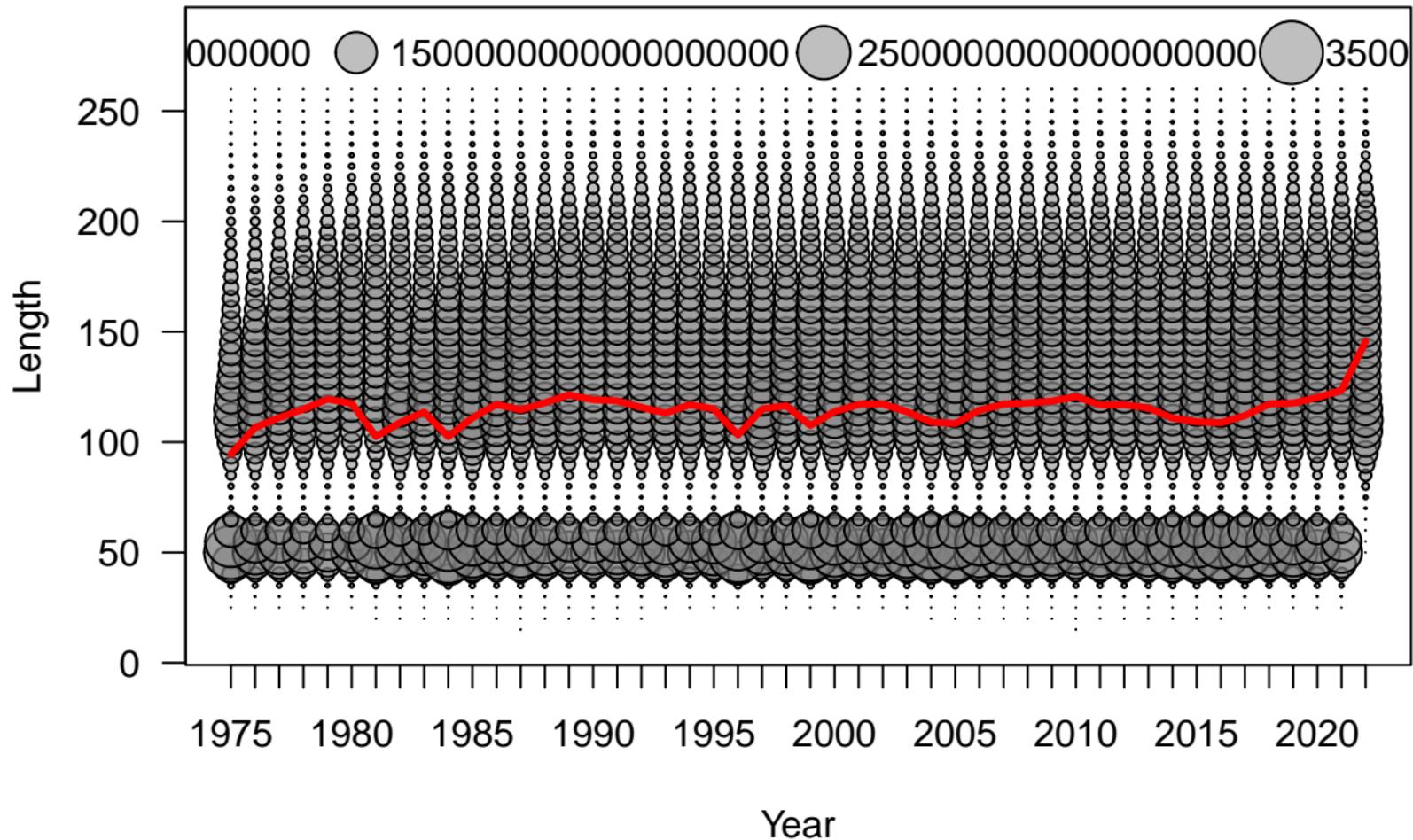


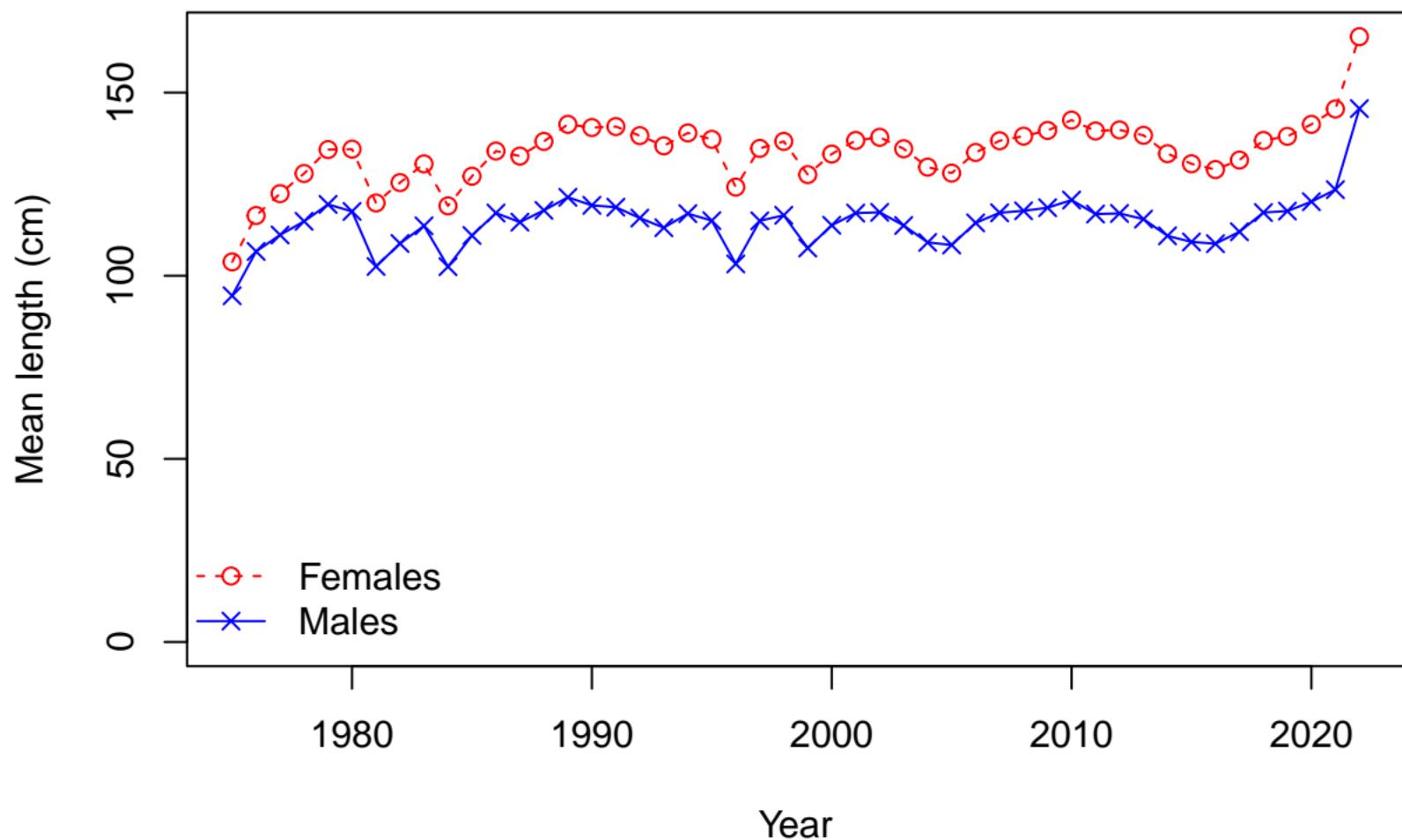
Year

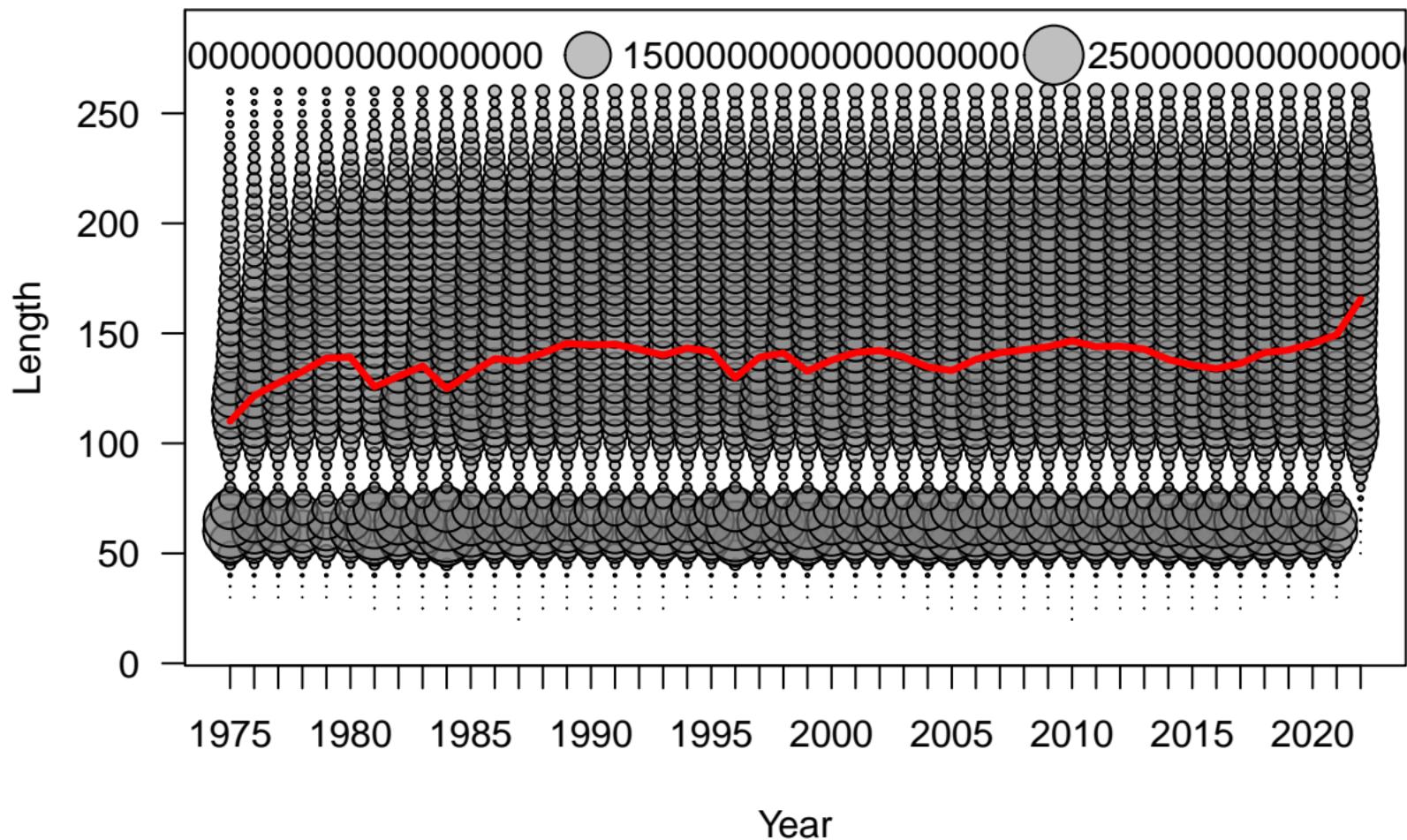


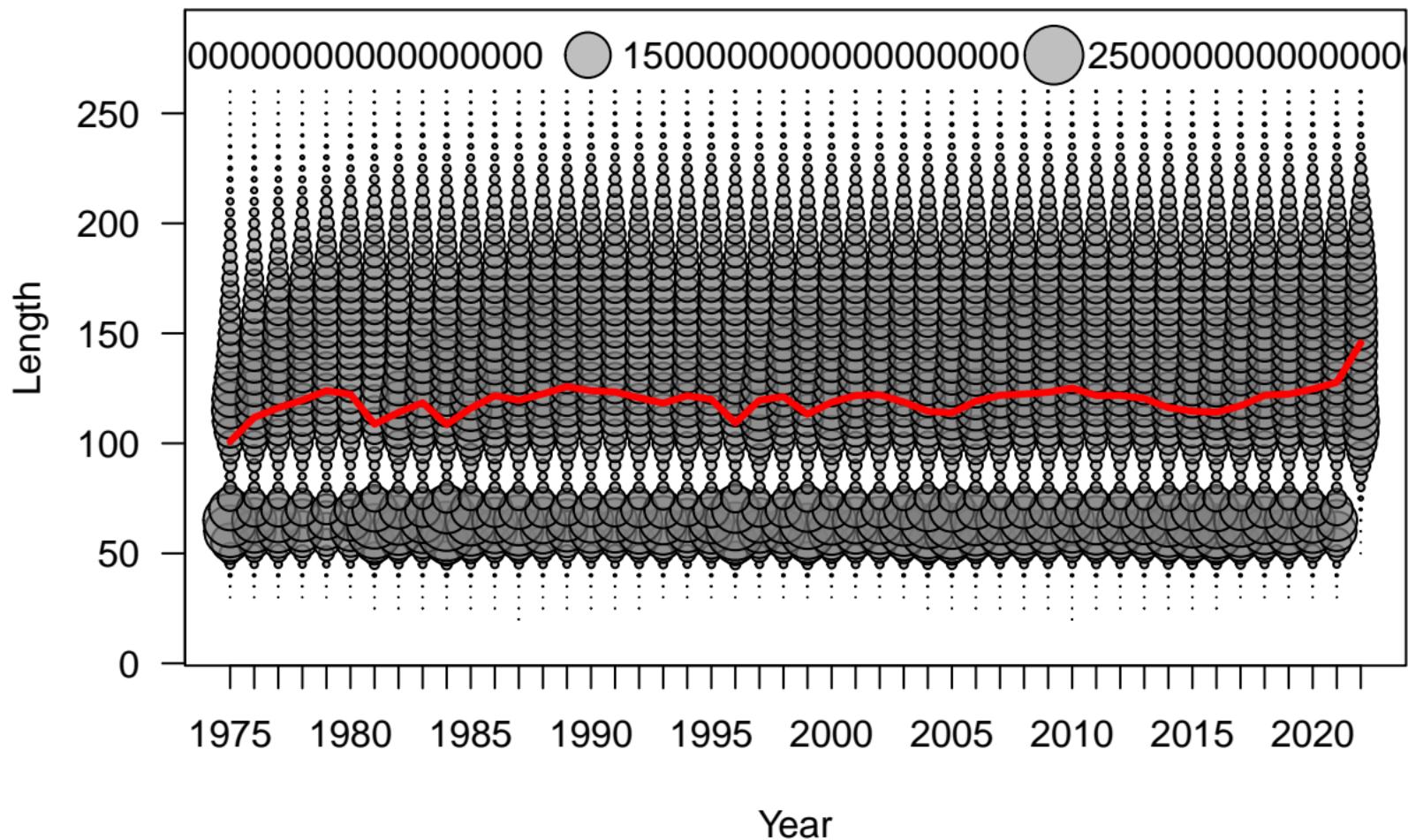


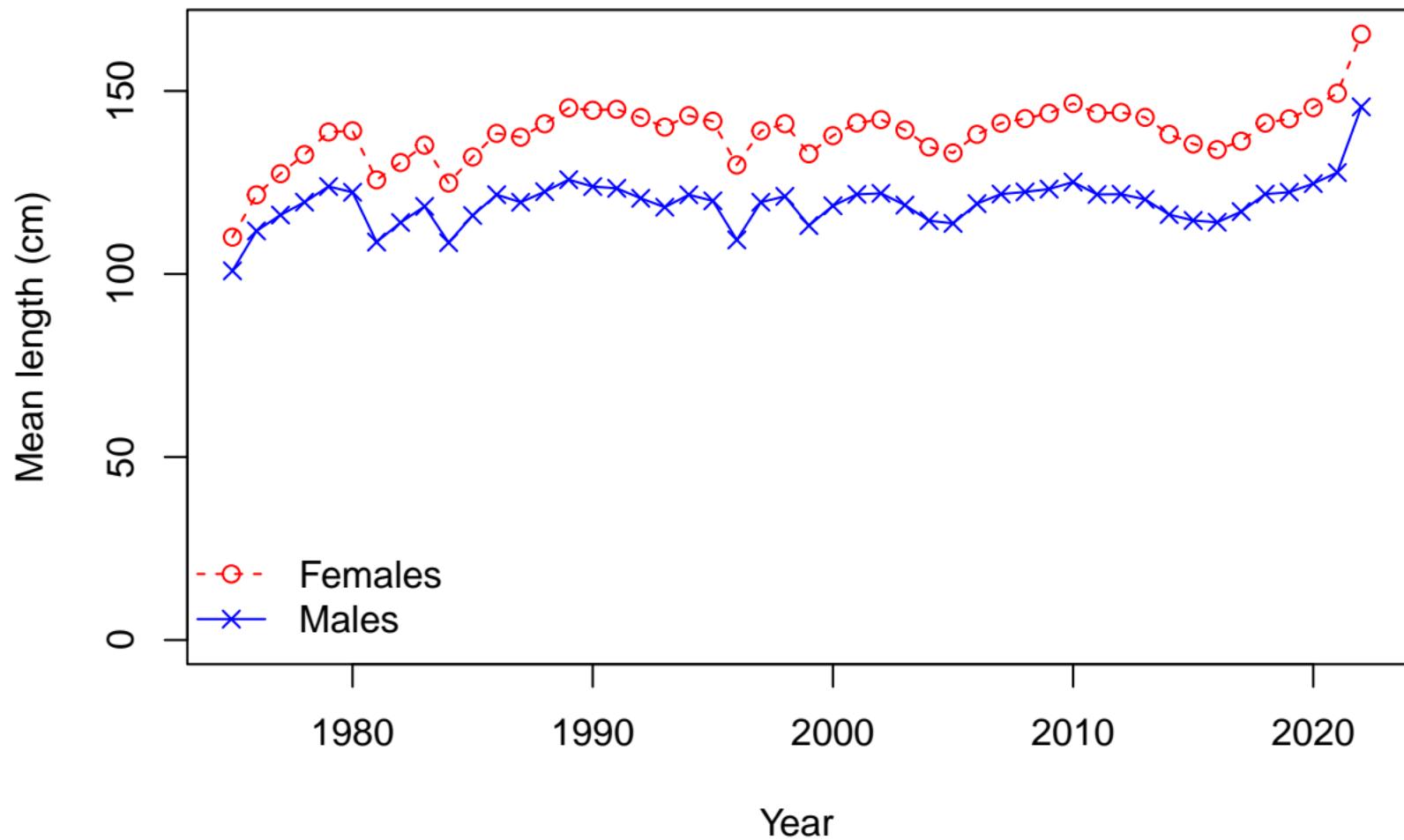


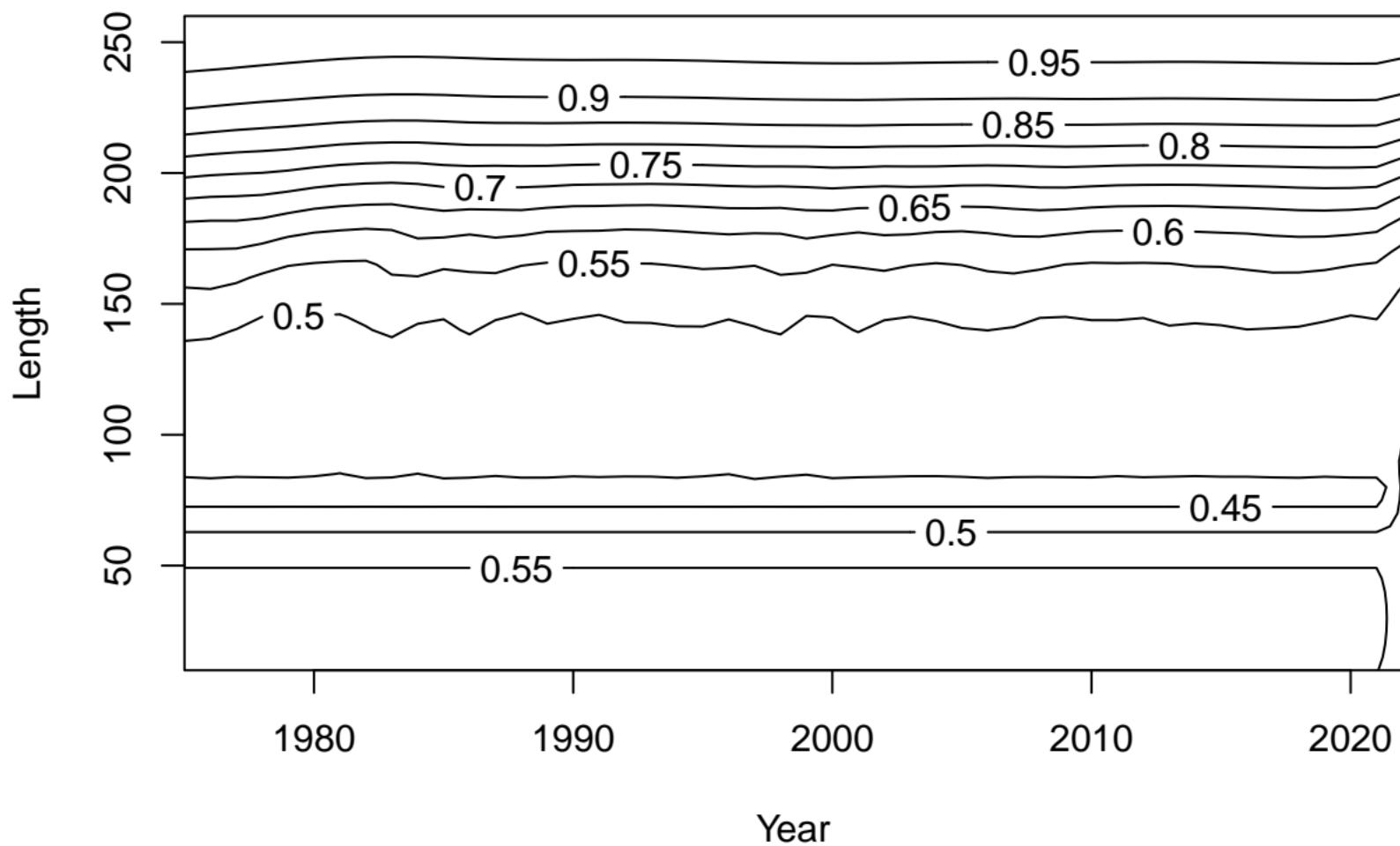


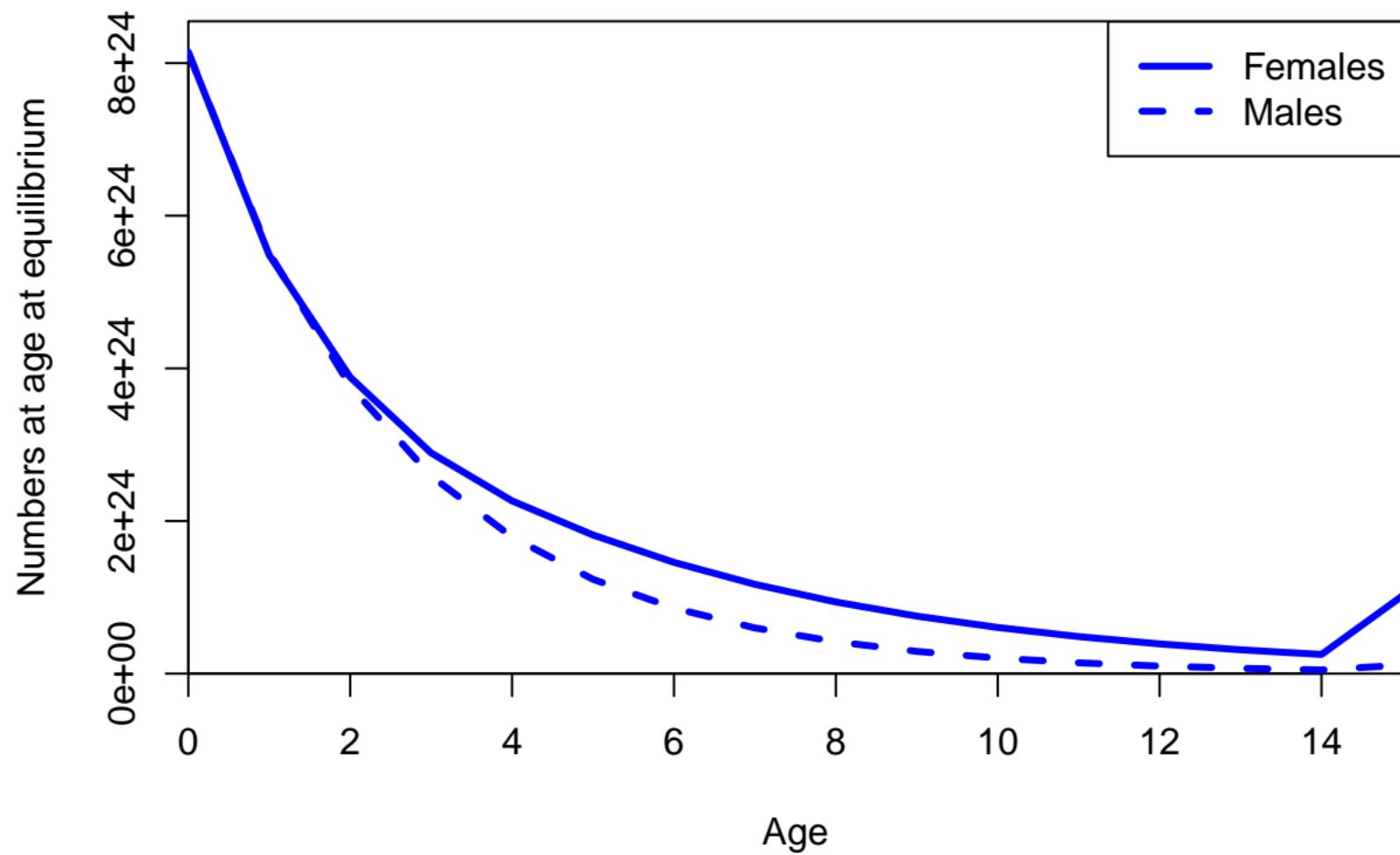


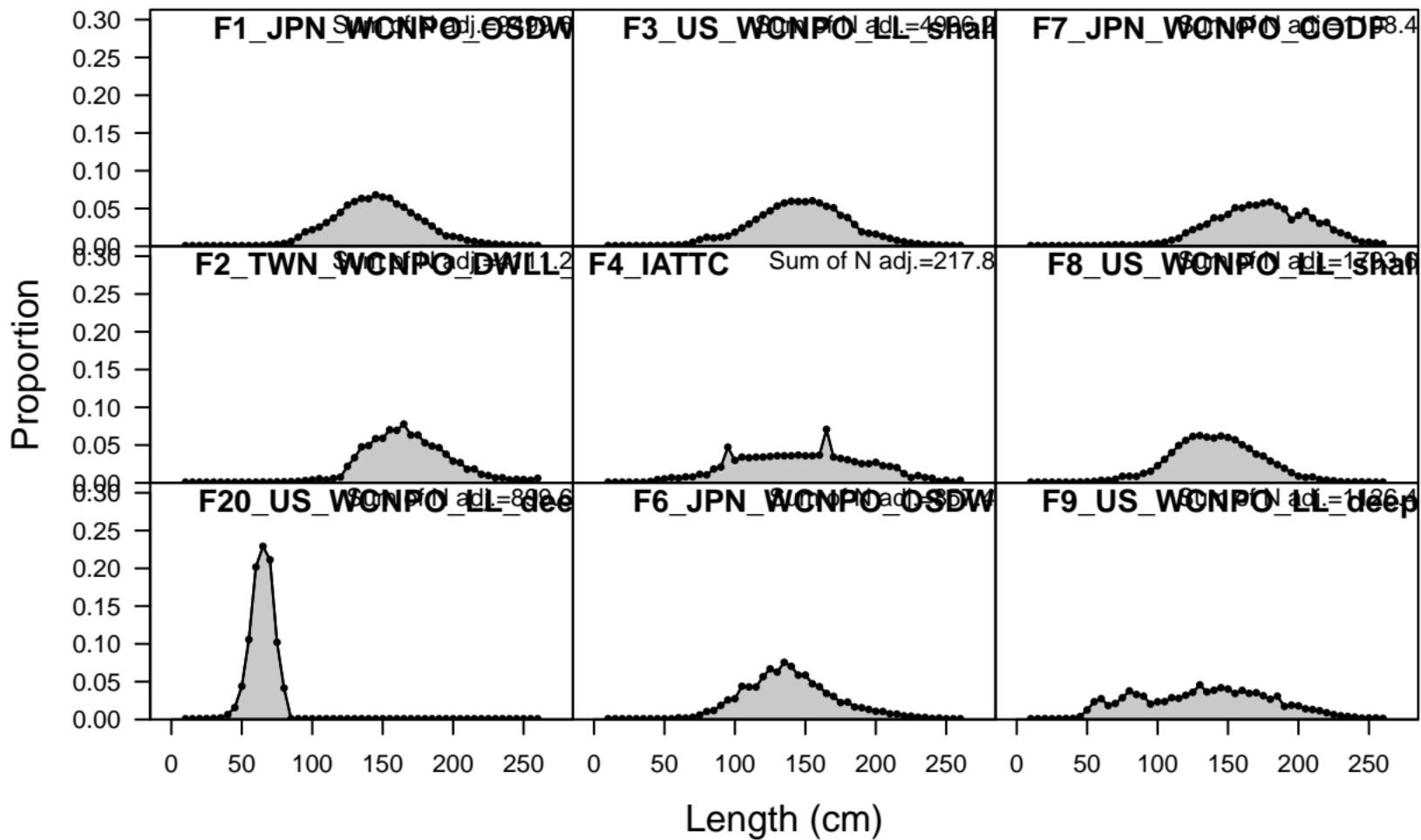


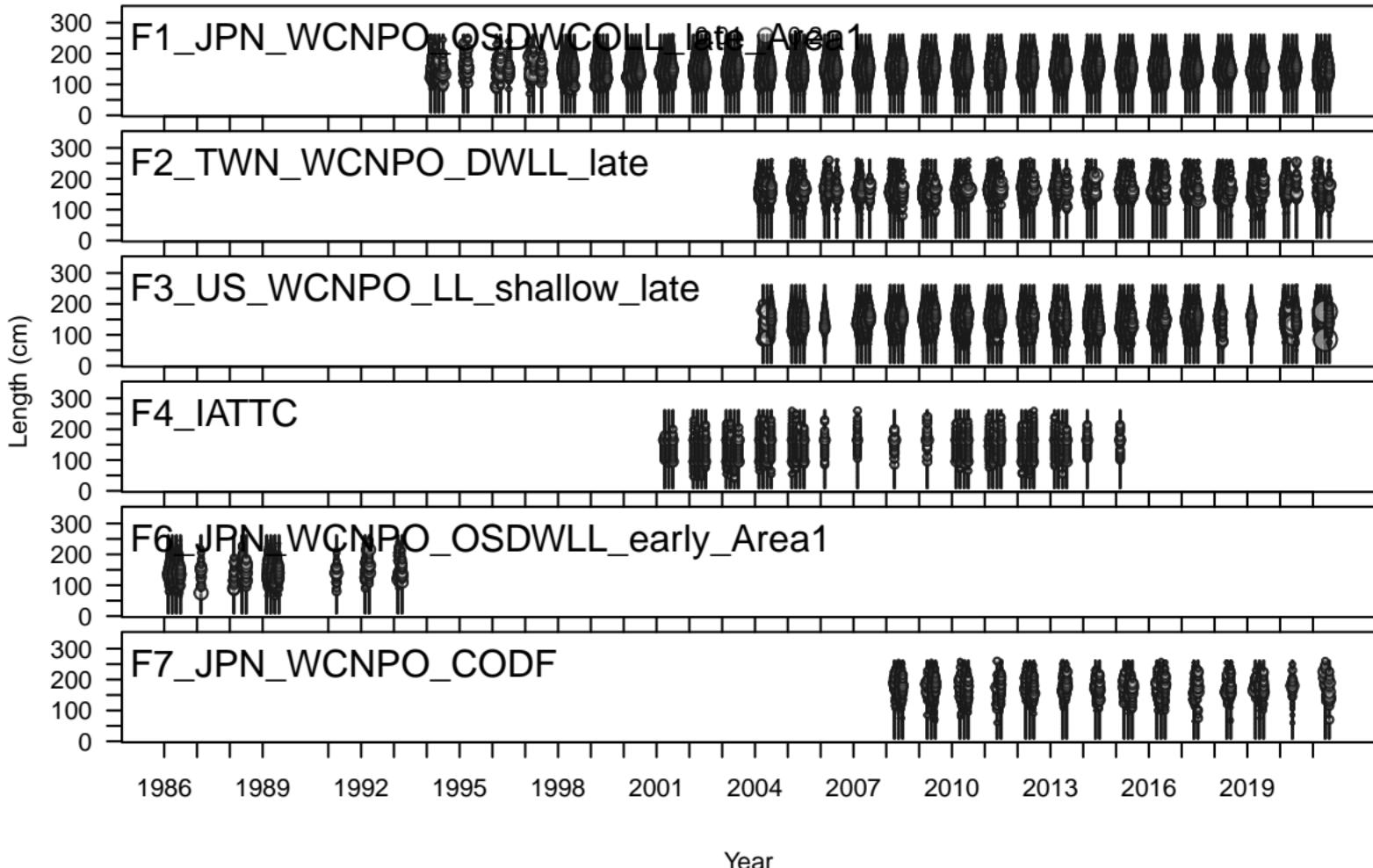


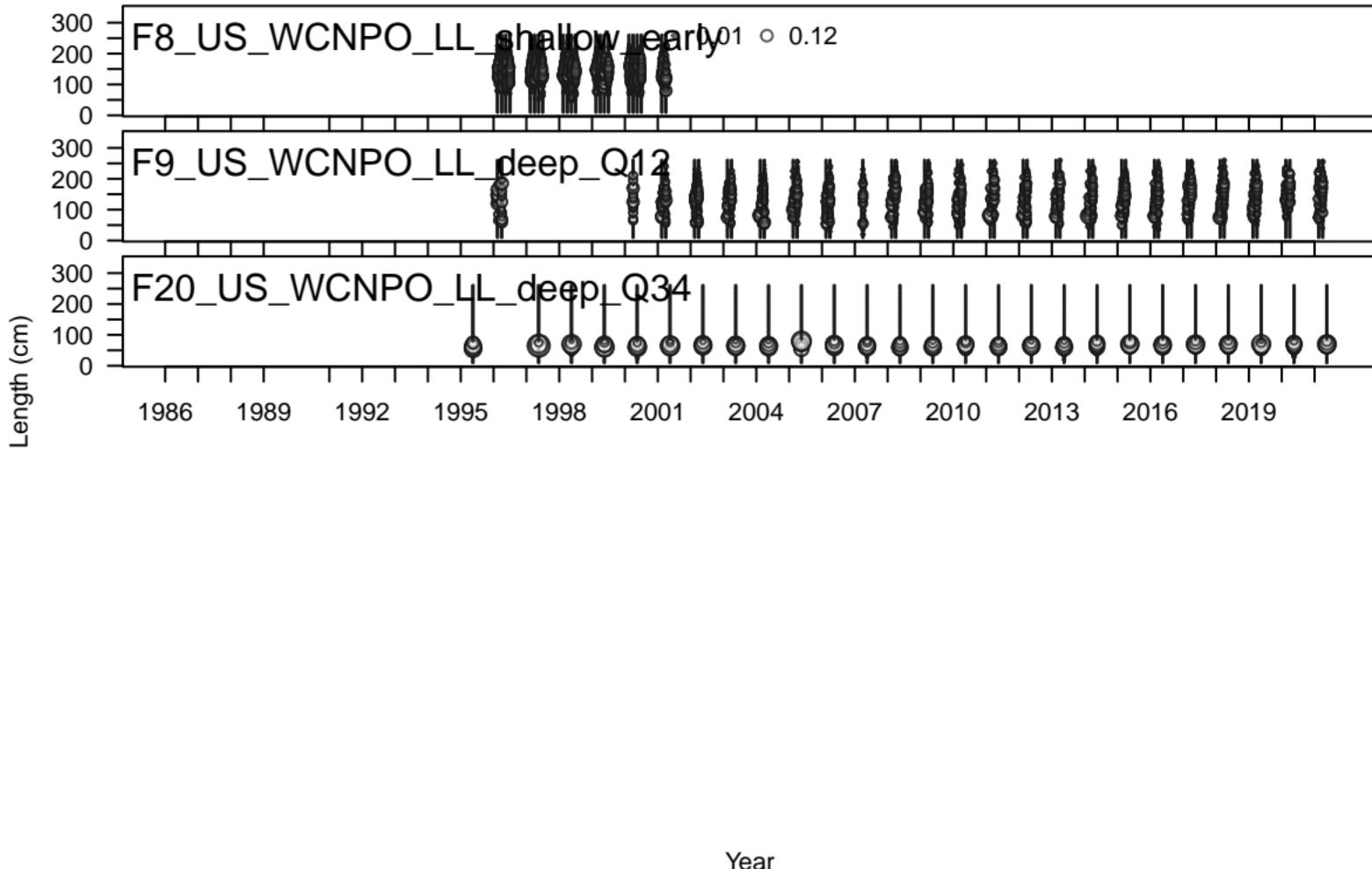




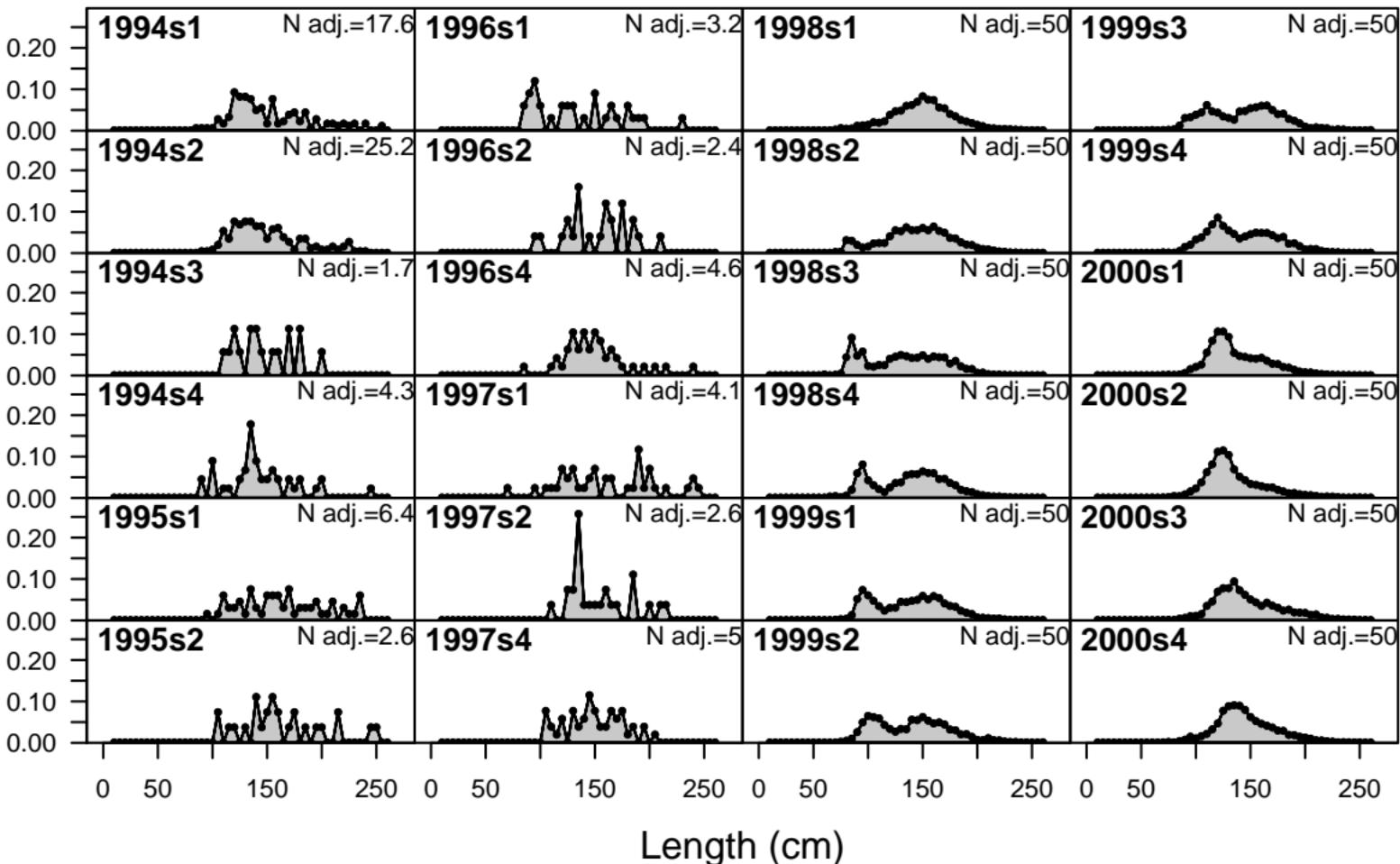




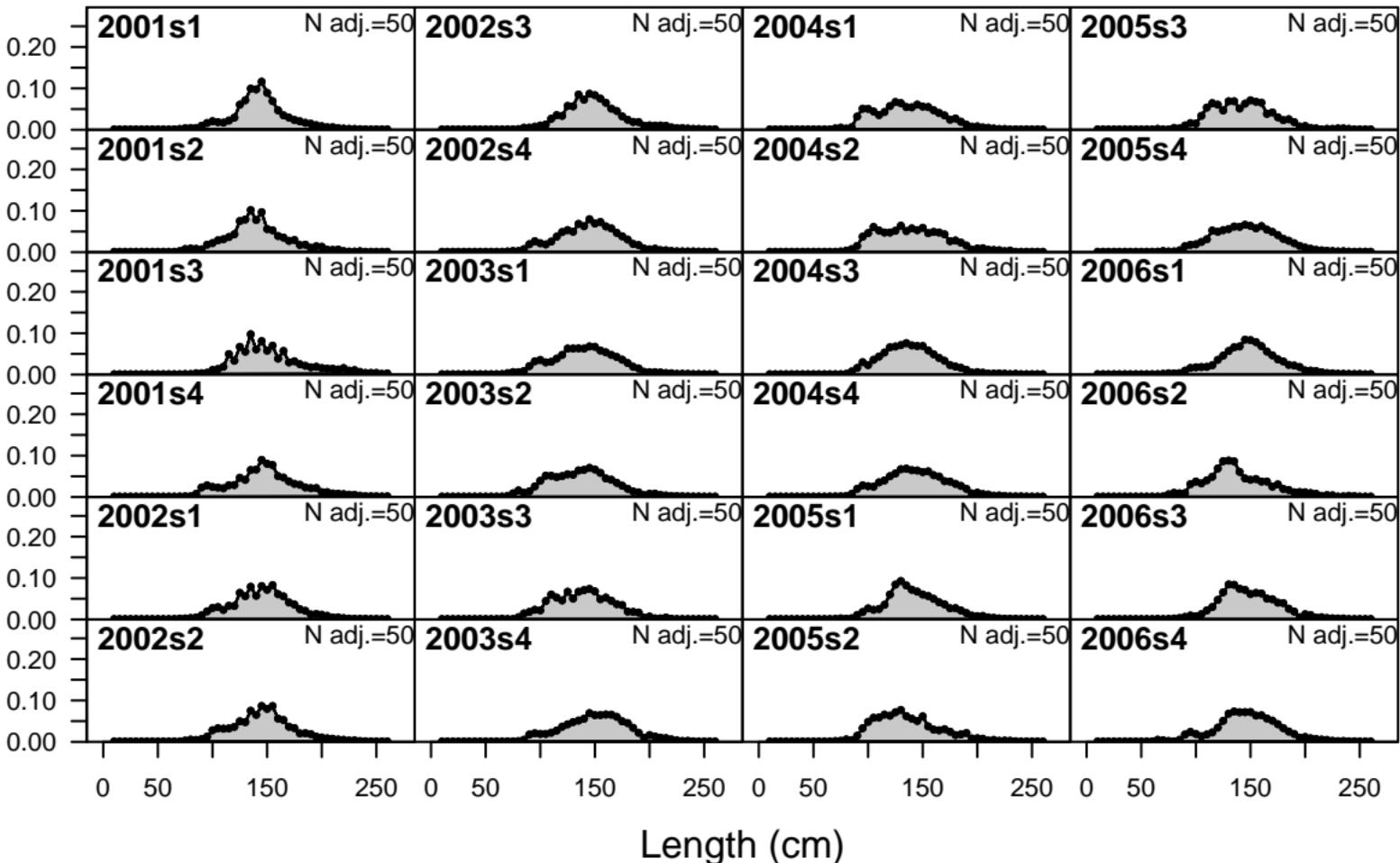




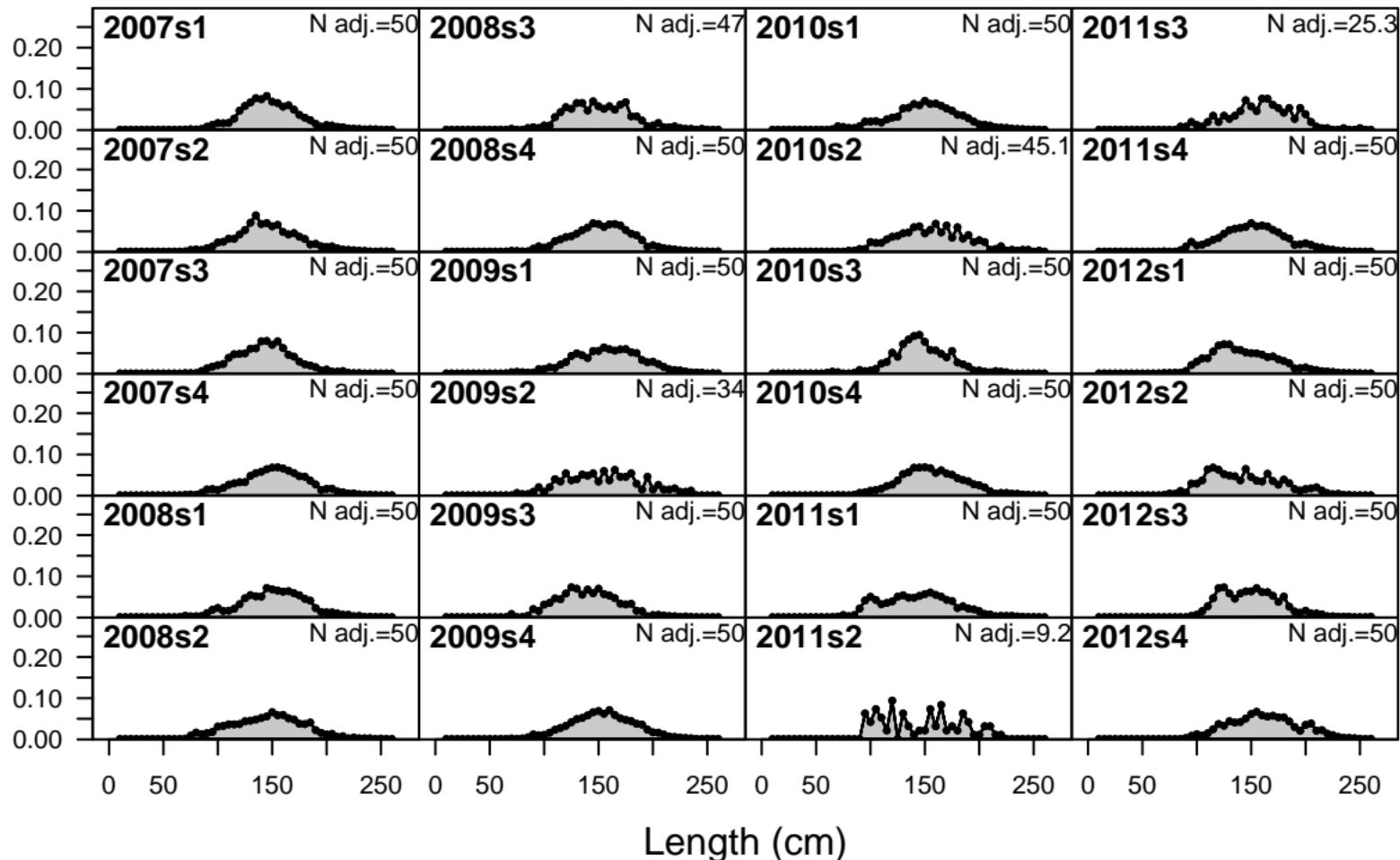
Proportion



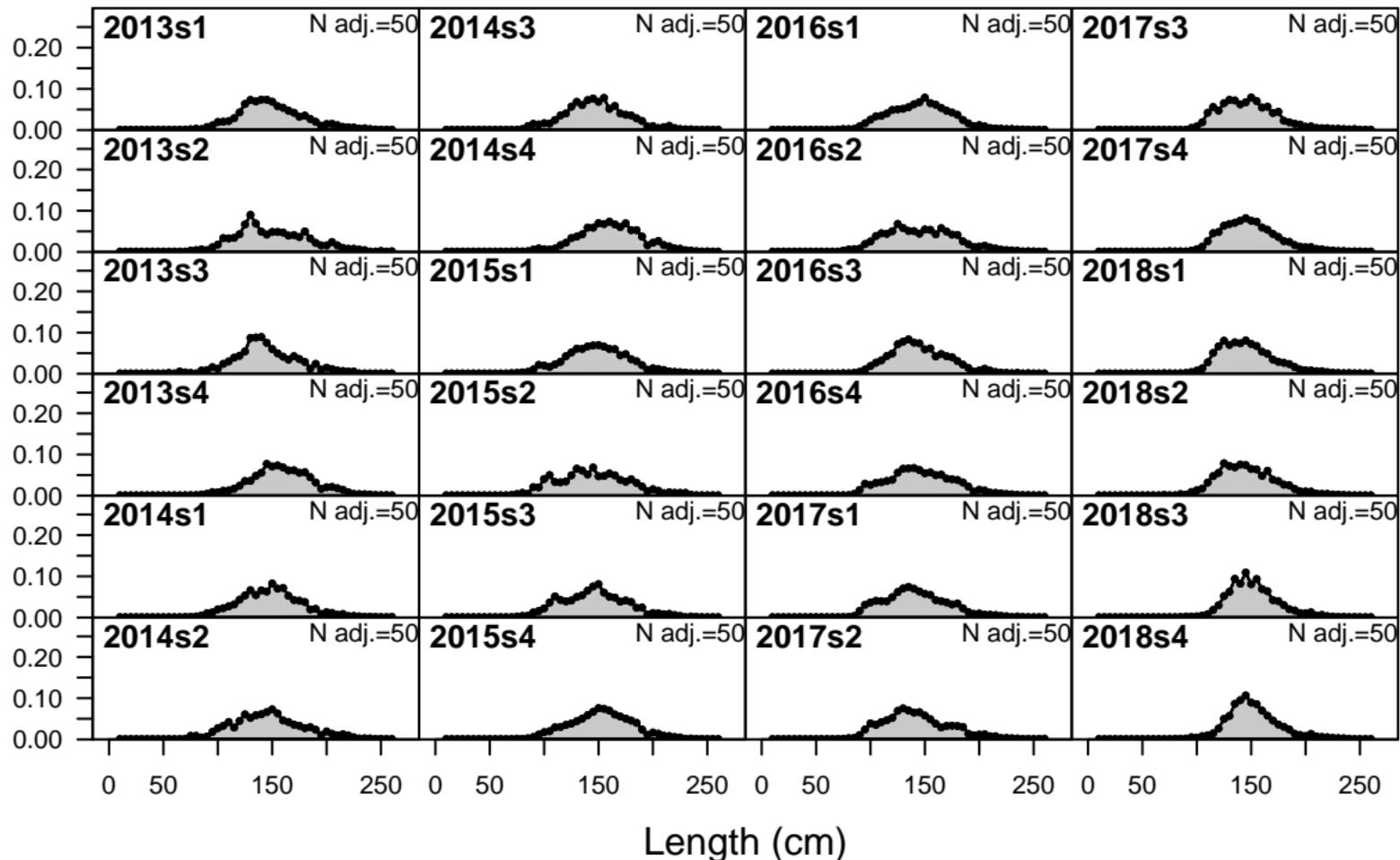
Proportion



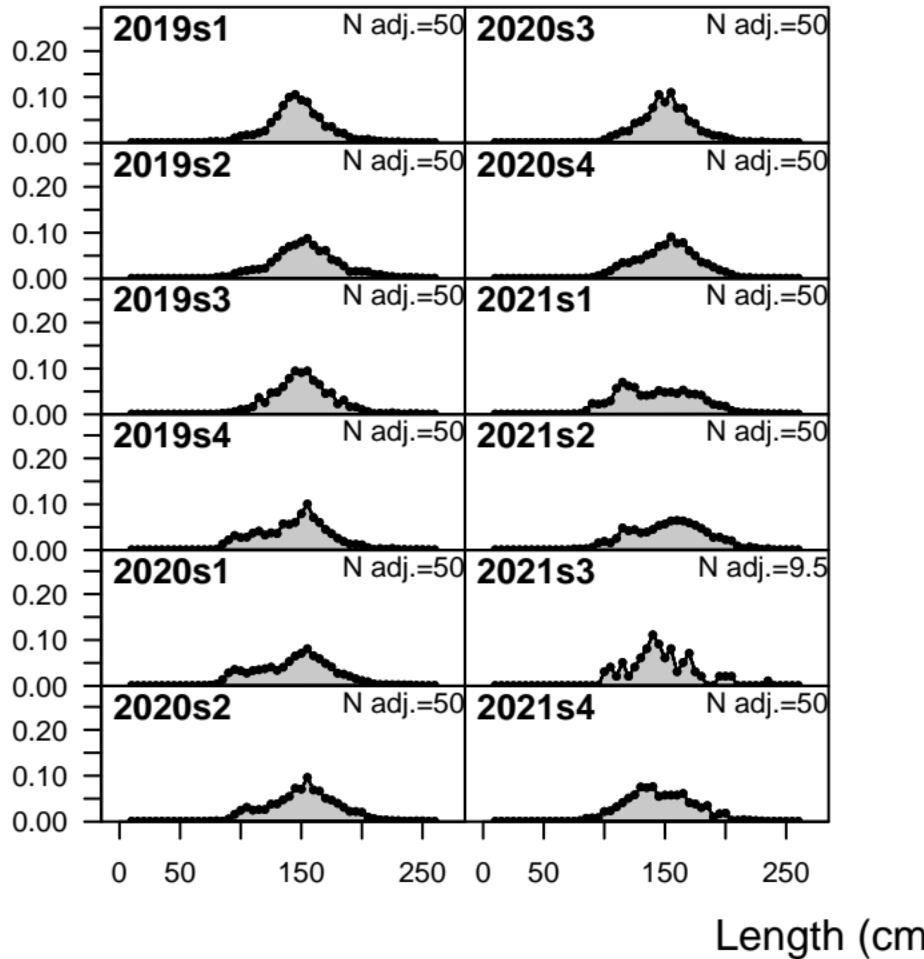
Proportion

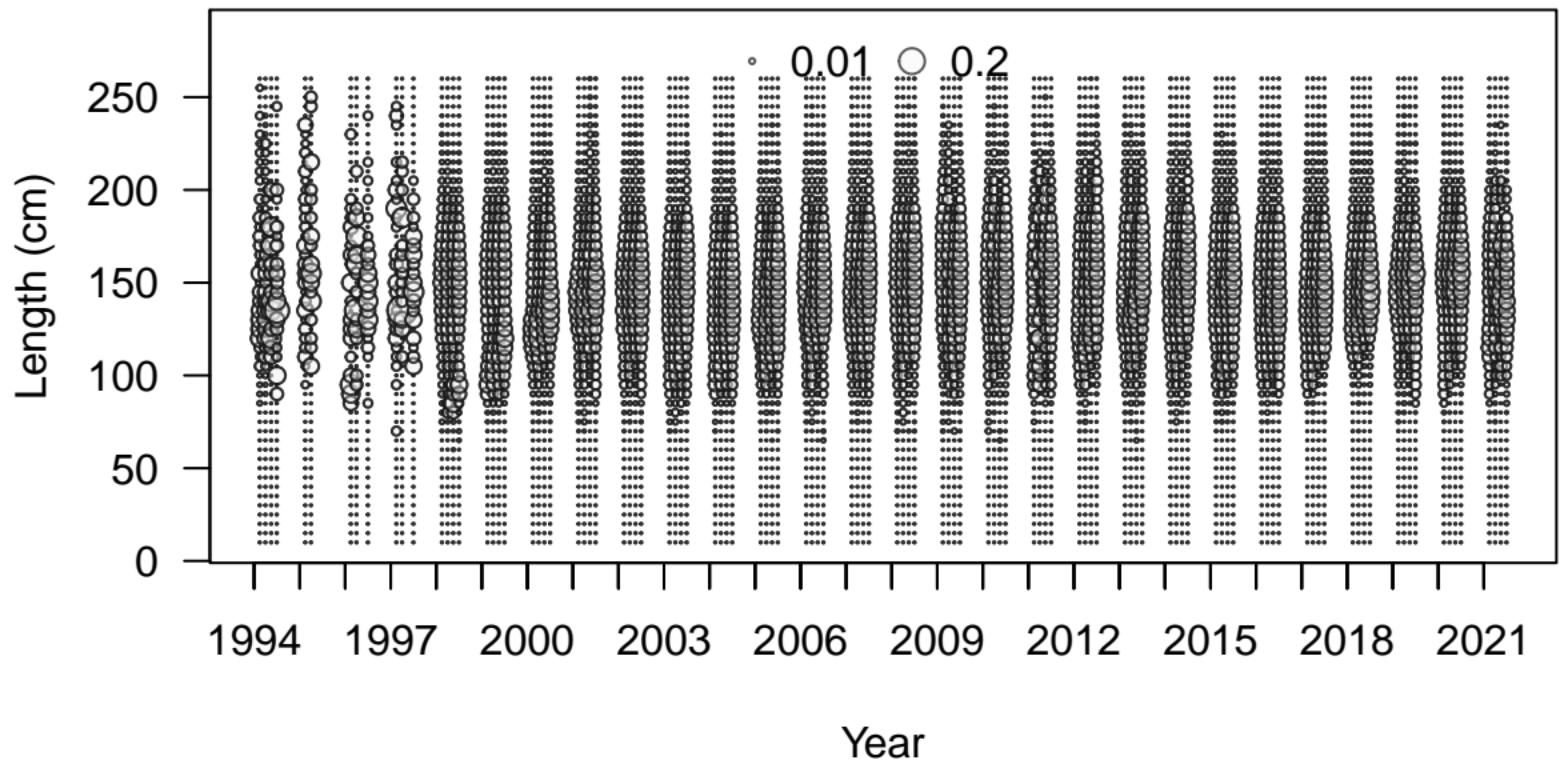


Proportion

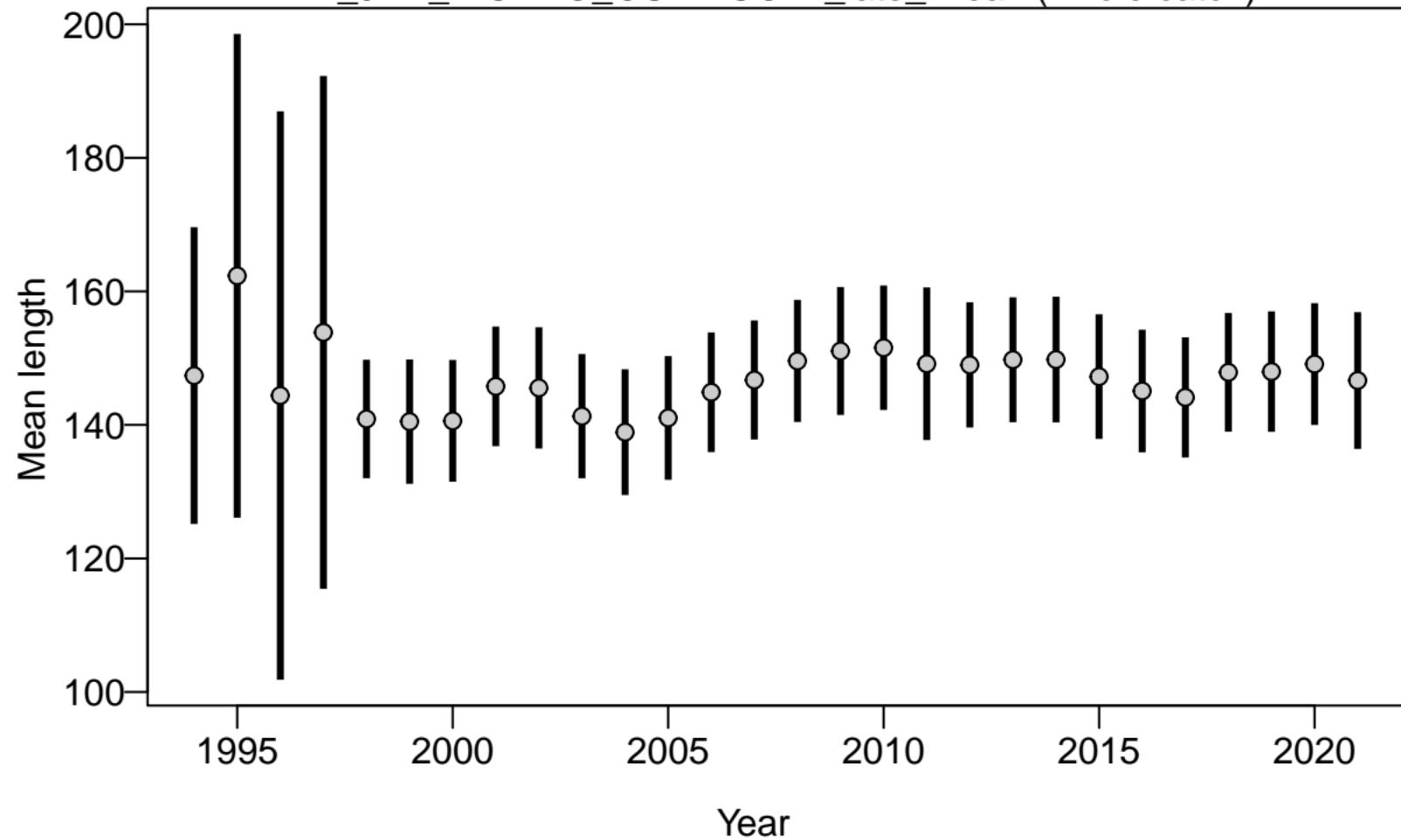


Proportion

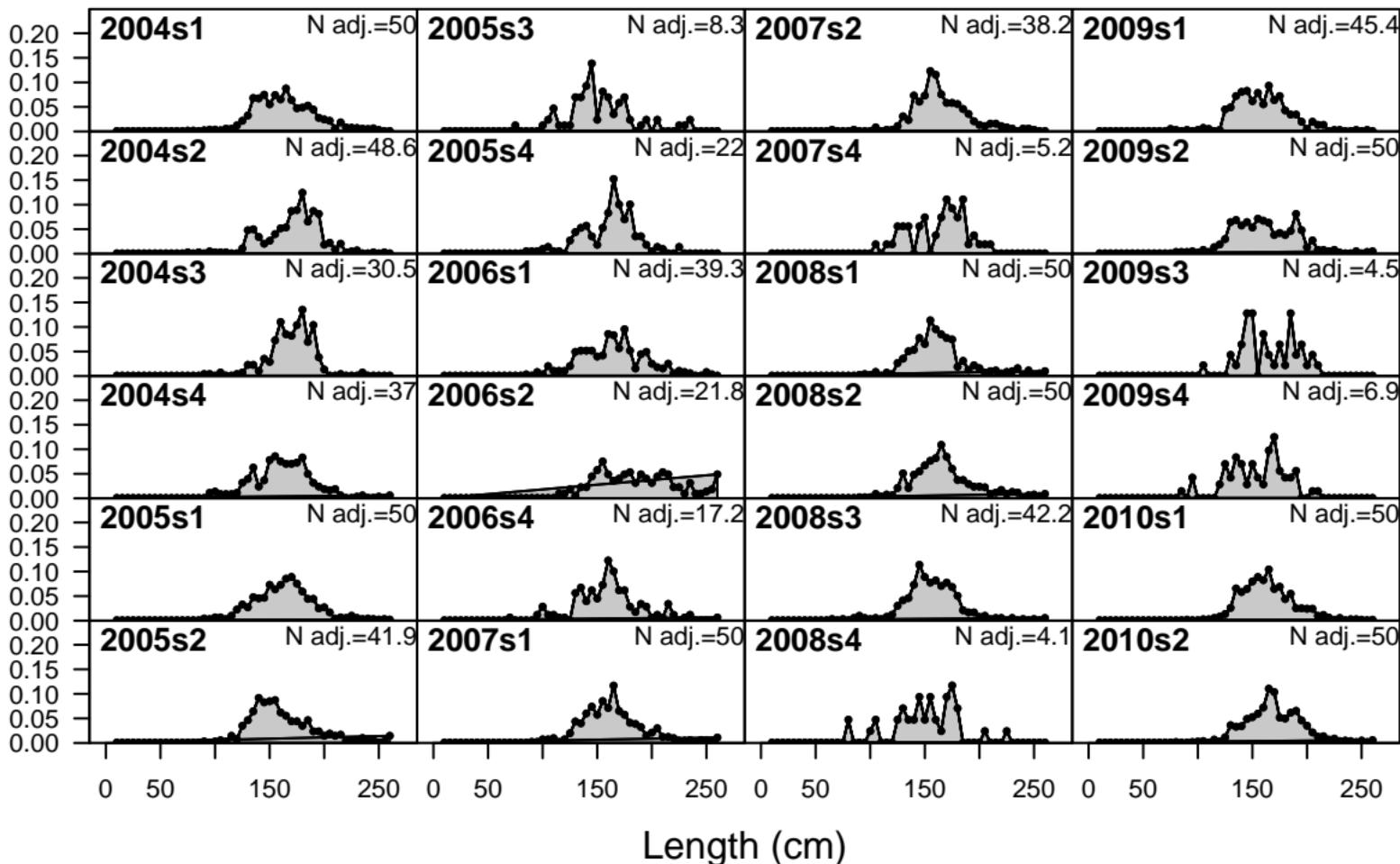




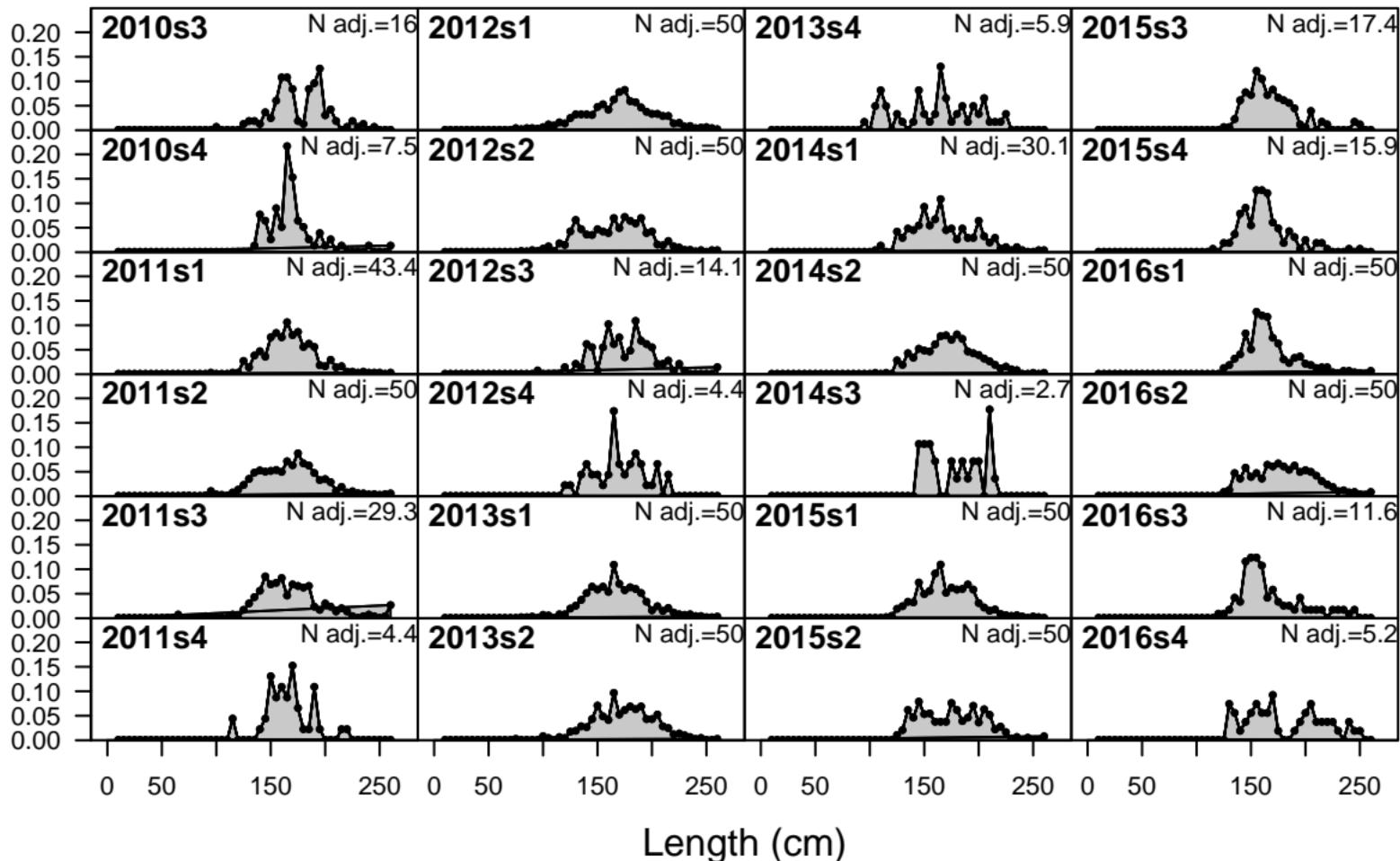
# F1\_JPN\_WCNPO OSDWCOLL late Area1 (whole catch)



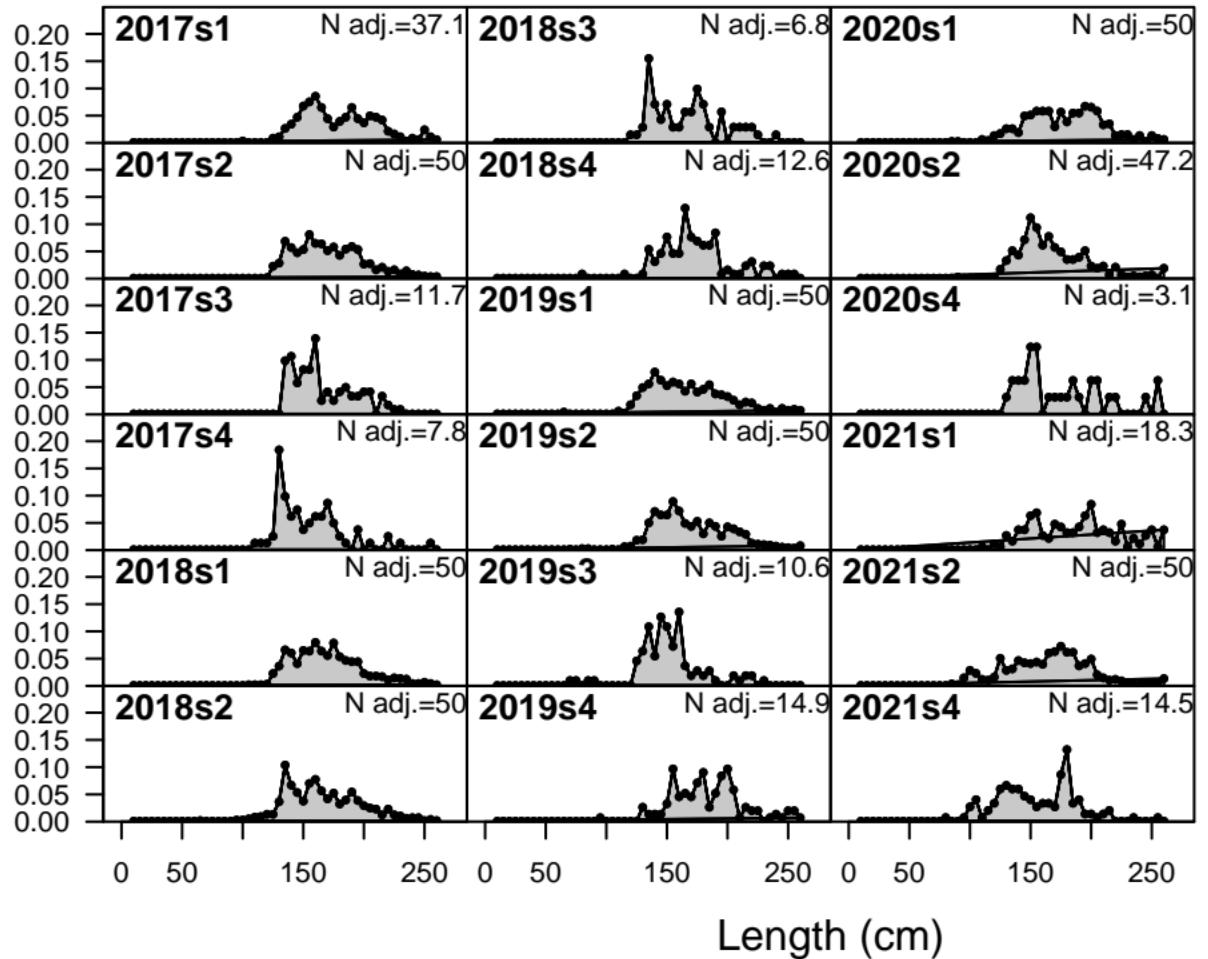
Proportion

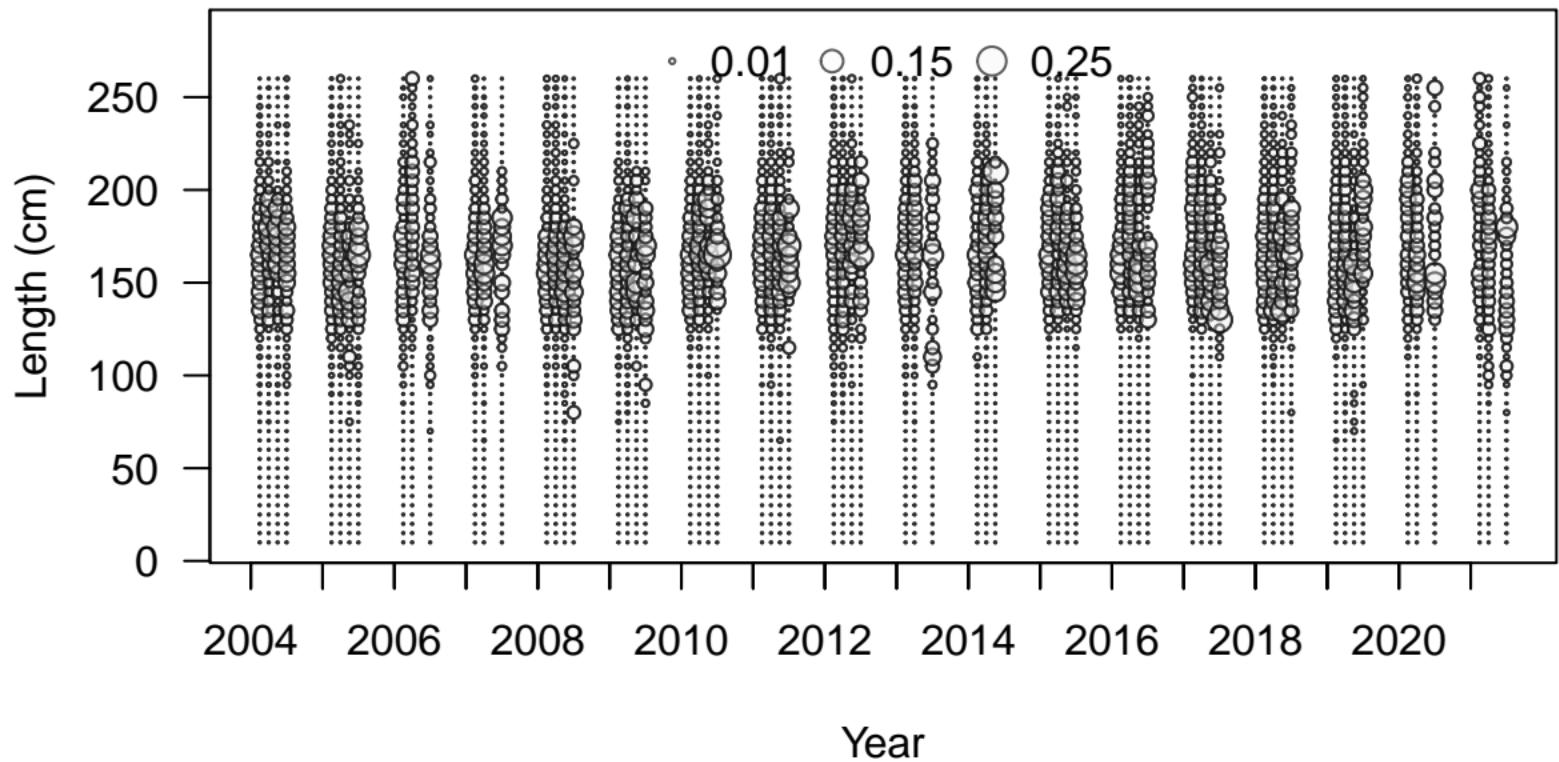


Proportion

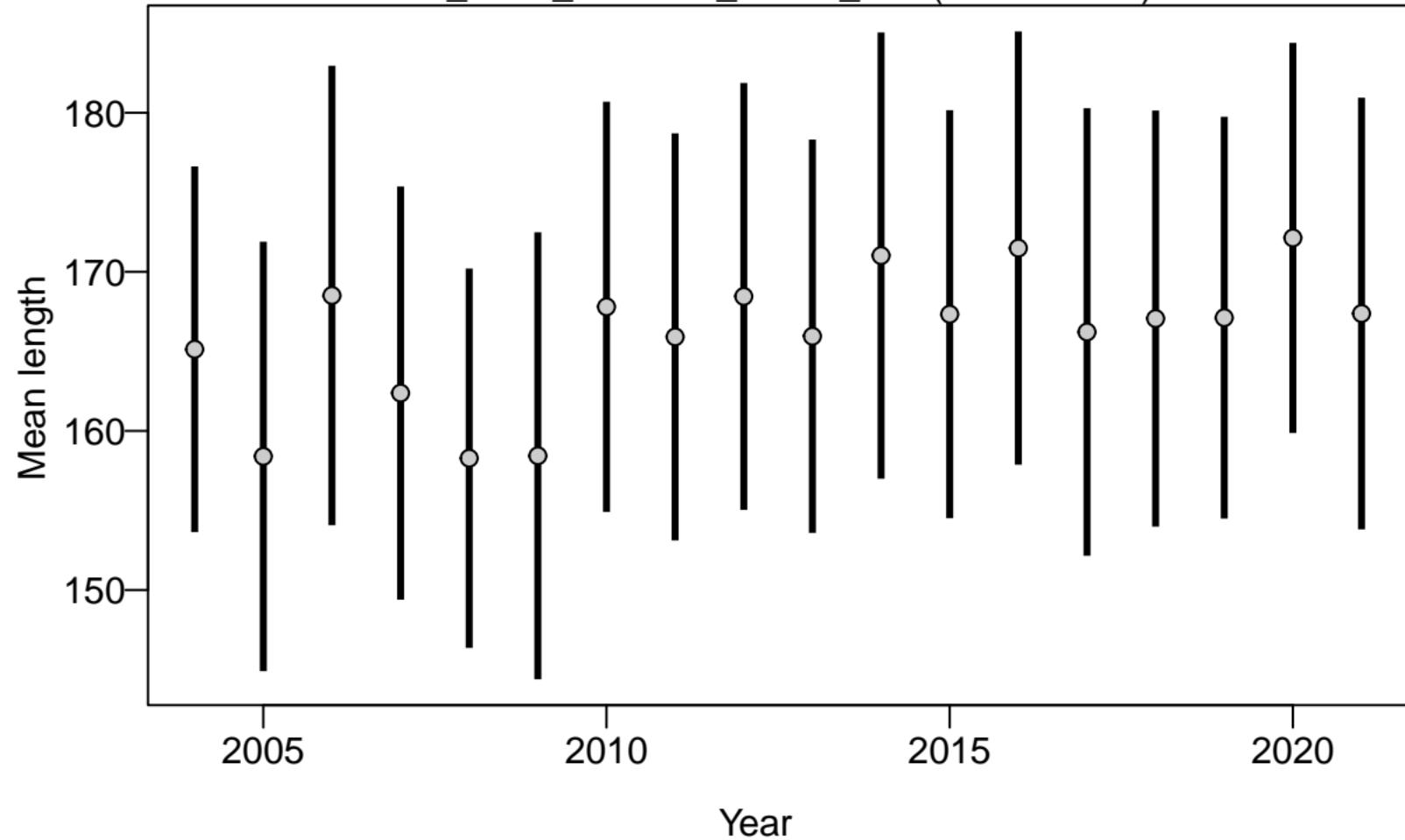


Proportion

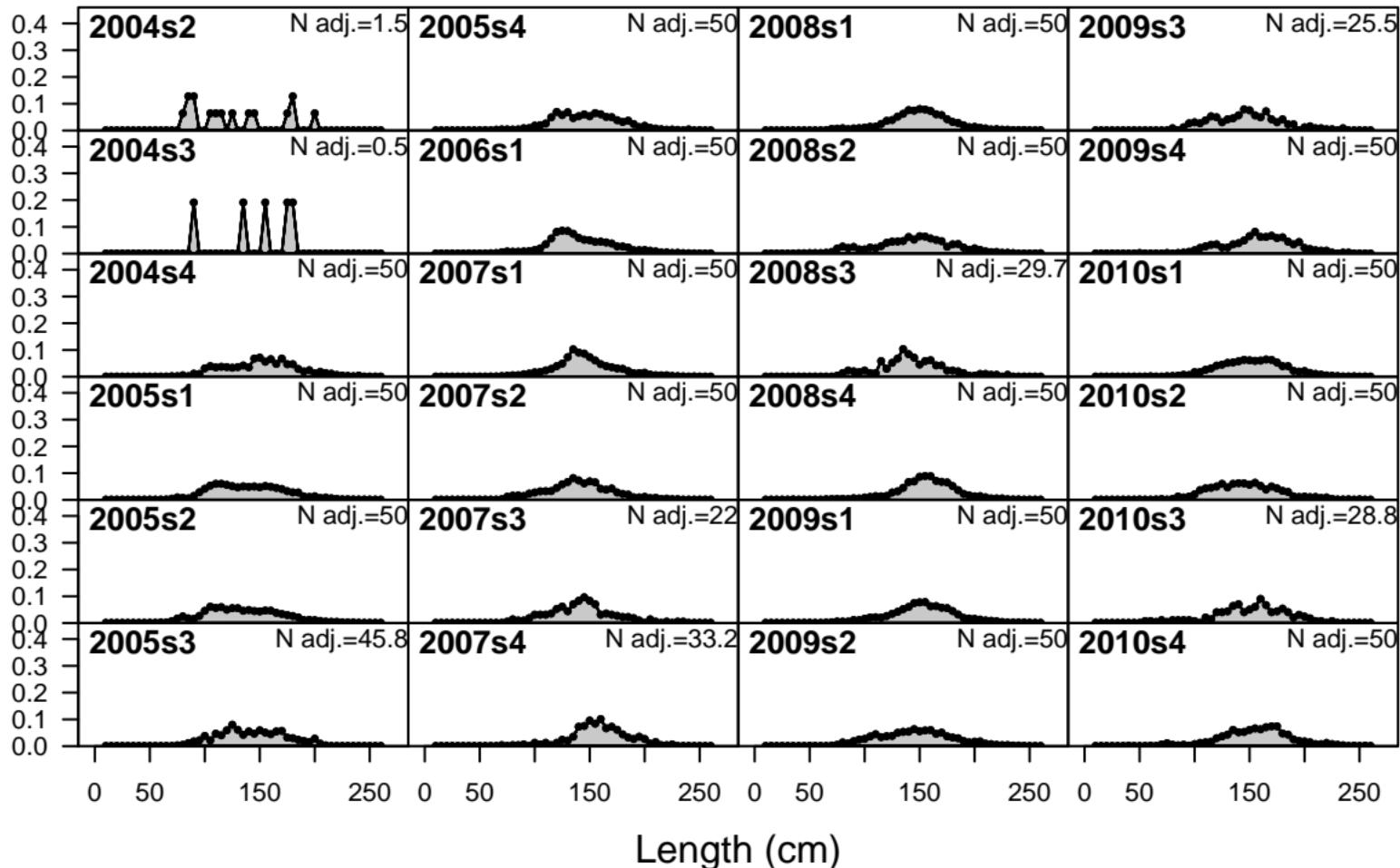




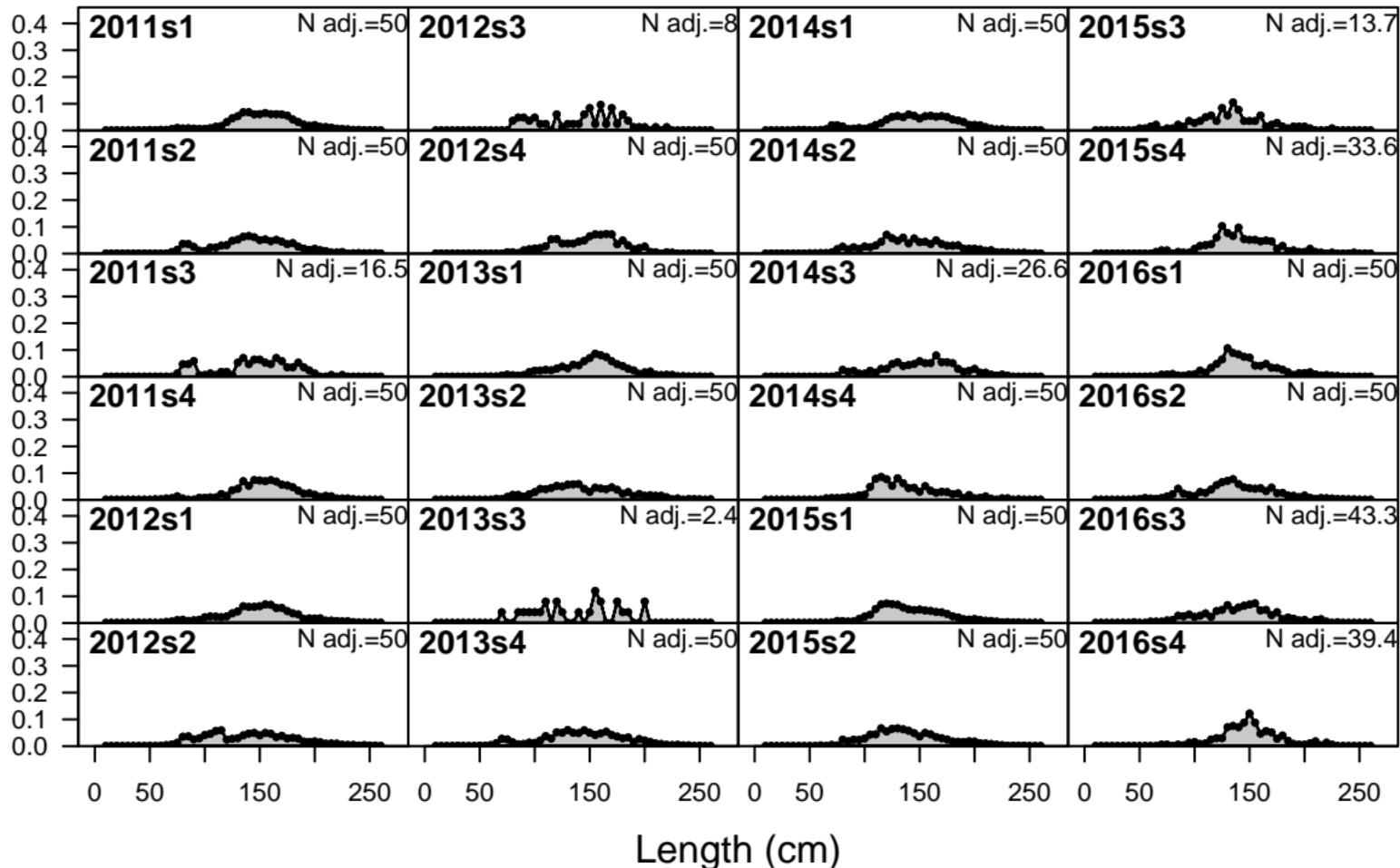
# F2\_TWN\_WCNPO\_DWLL\_late (whole catch)



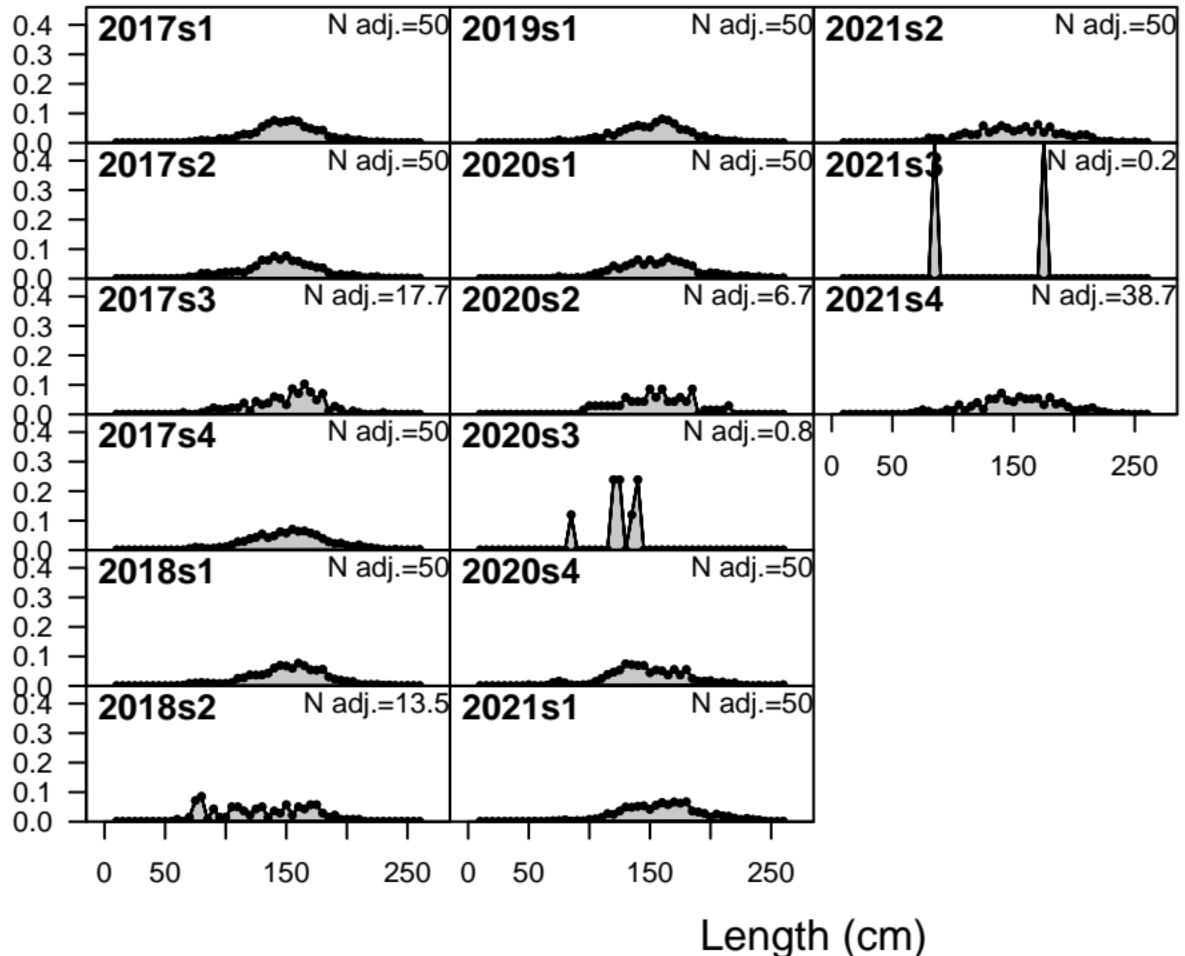
Proportion

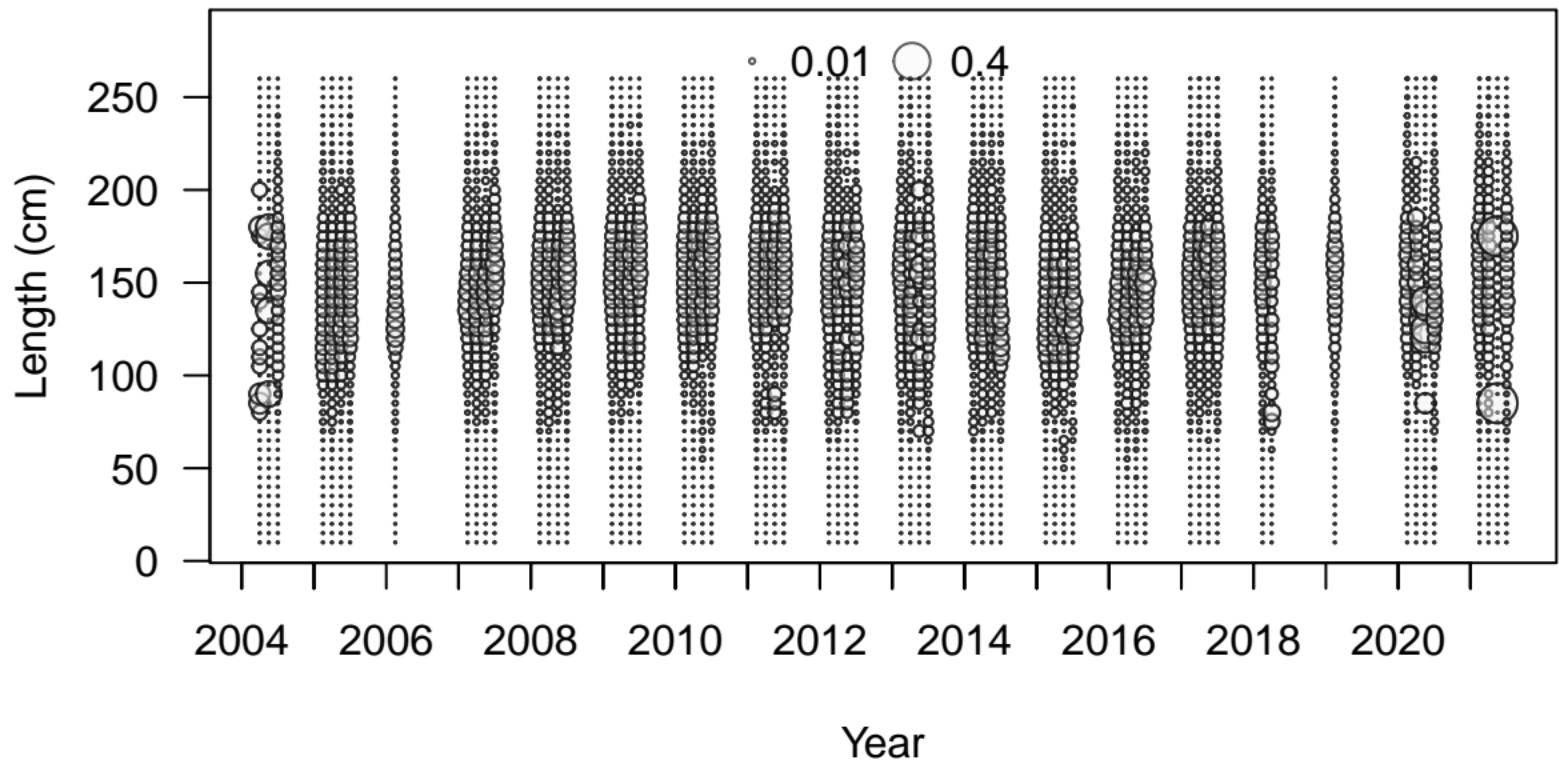


Proportion

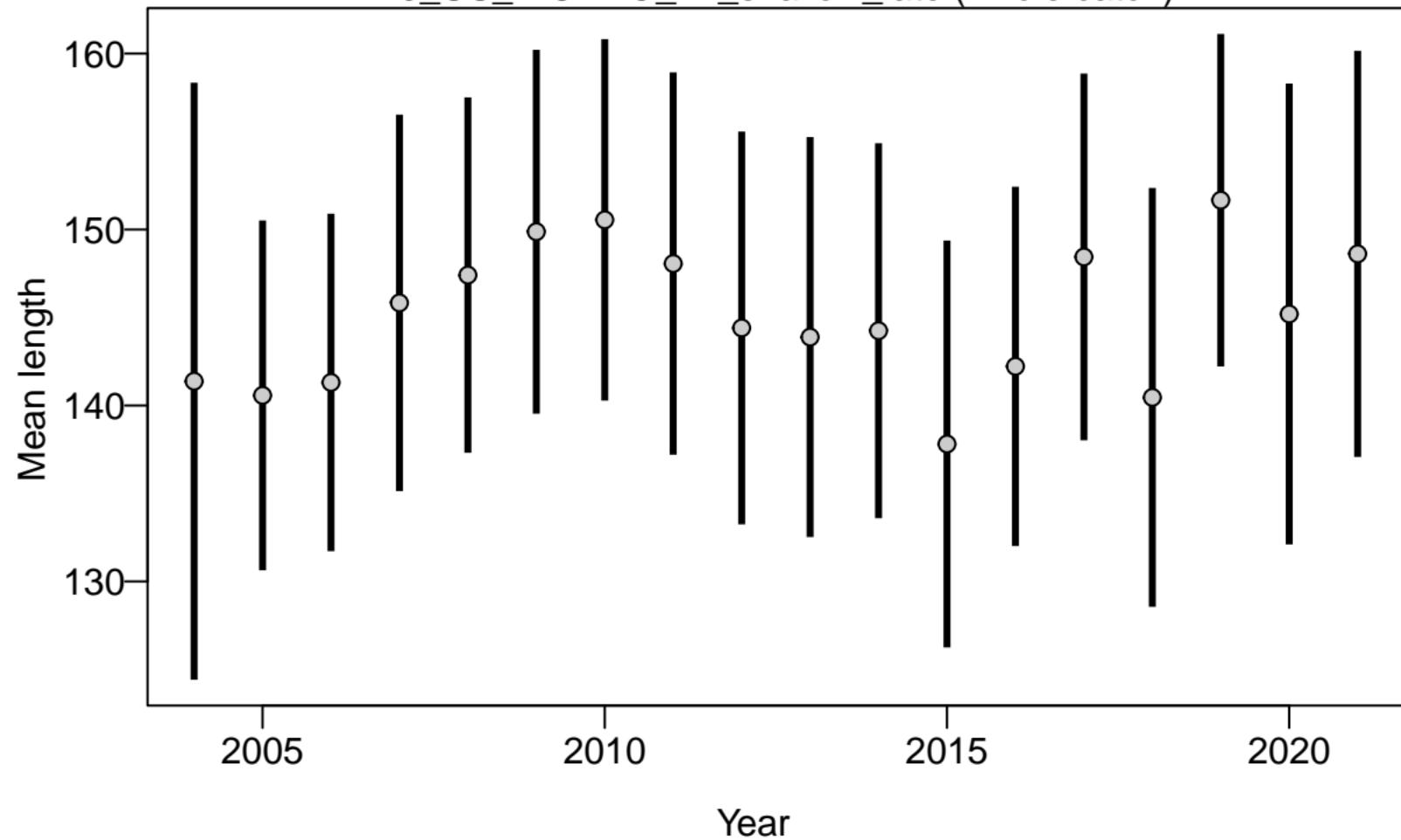


Proportion

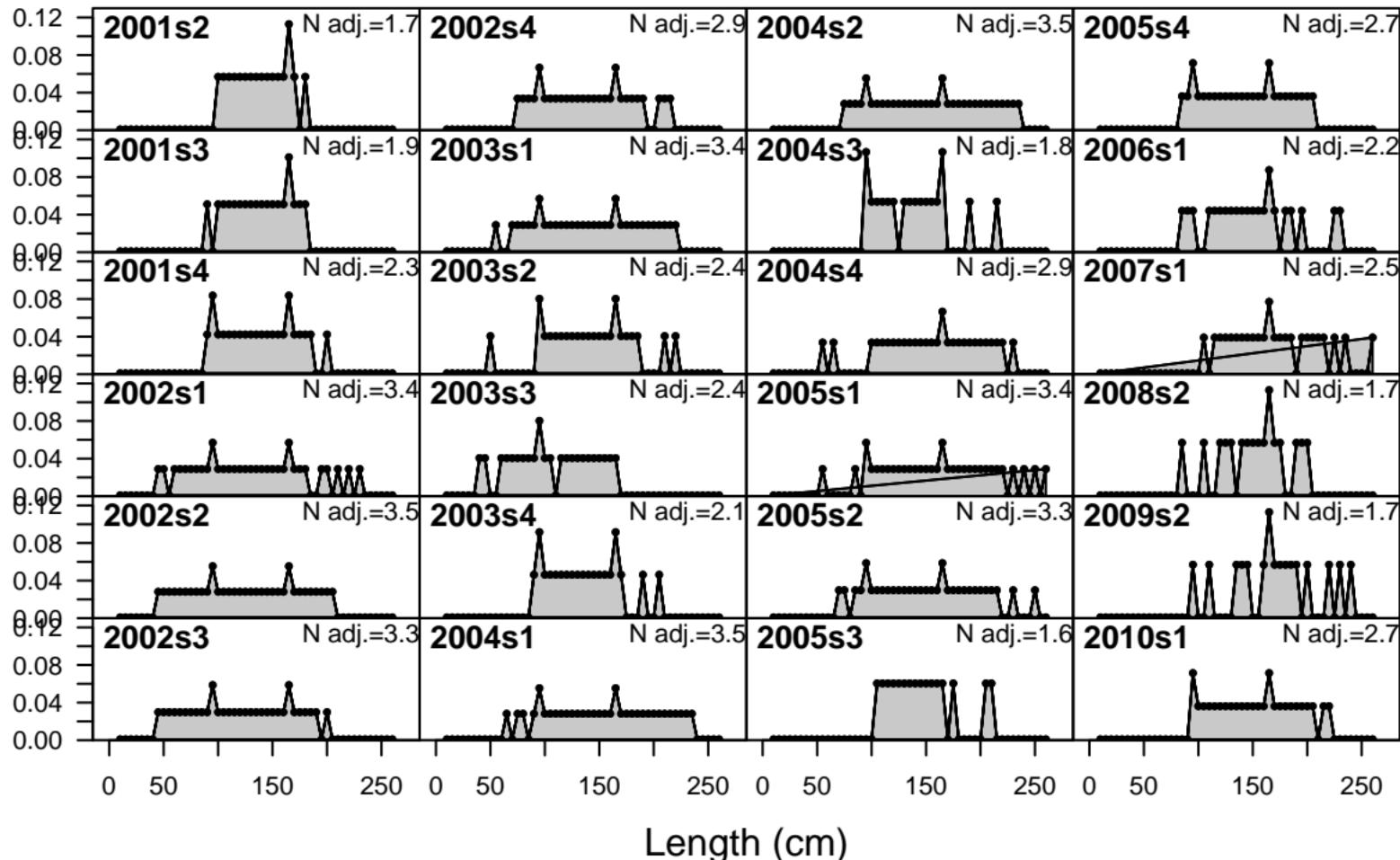




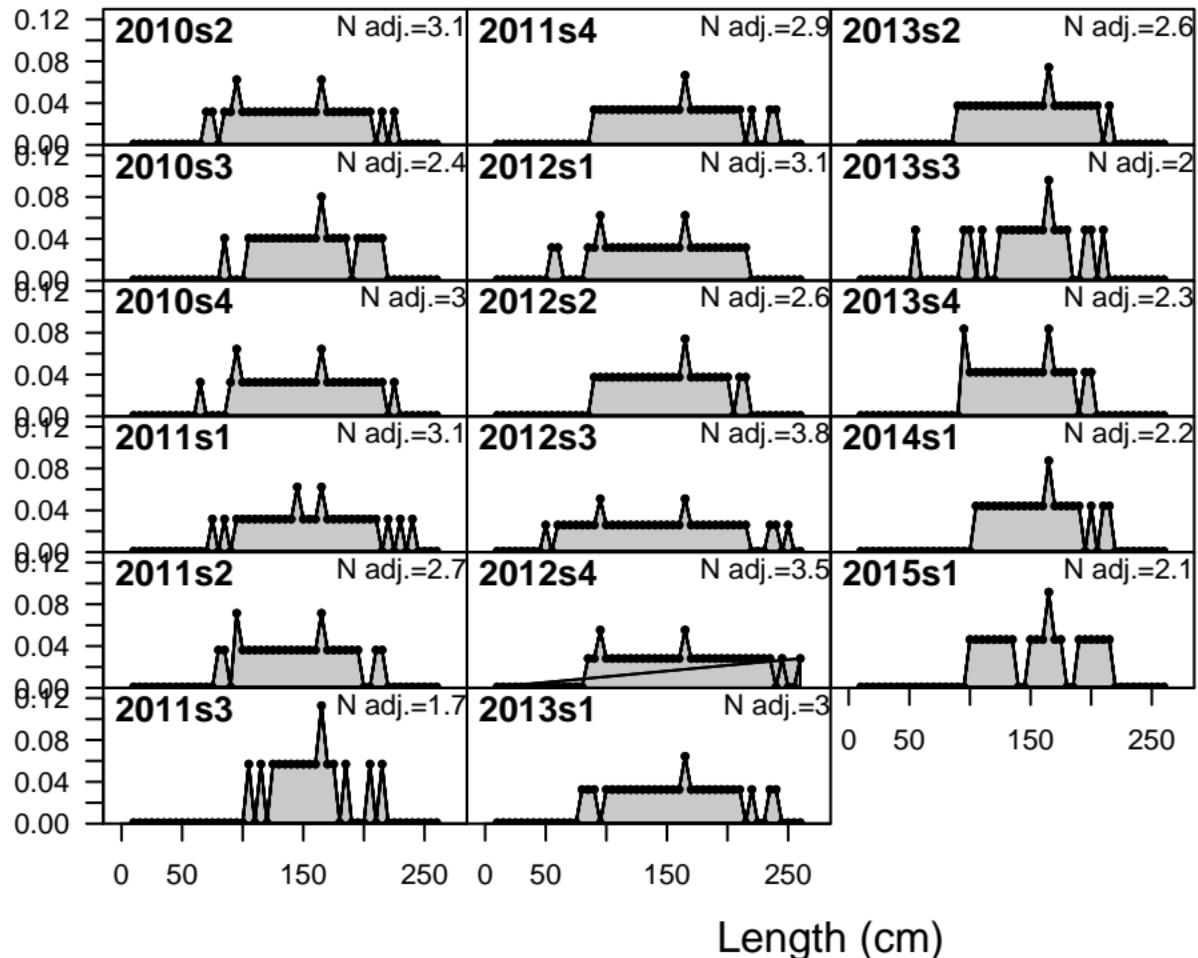
### F3\_US\_WCNPO\_LL\_shallow\_late (whole catch)

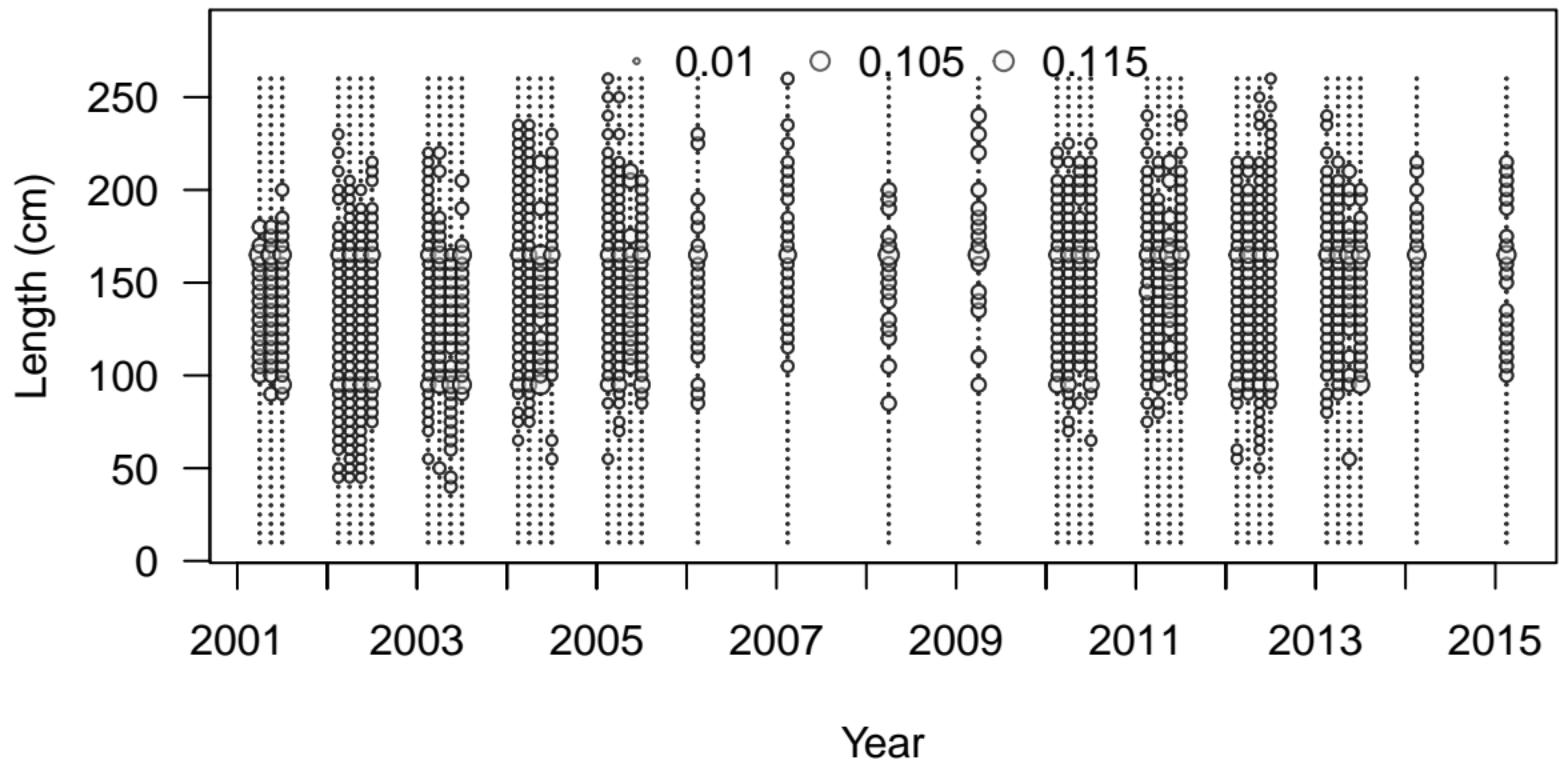


Proportion

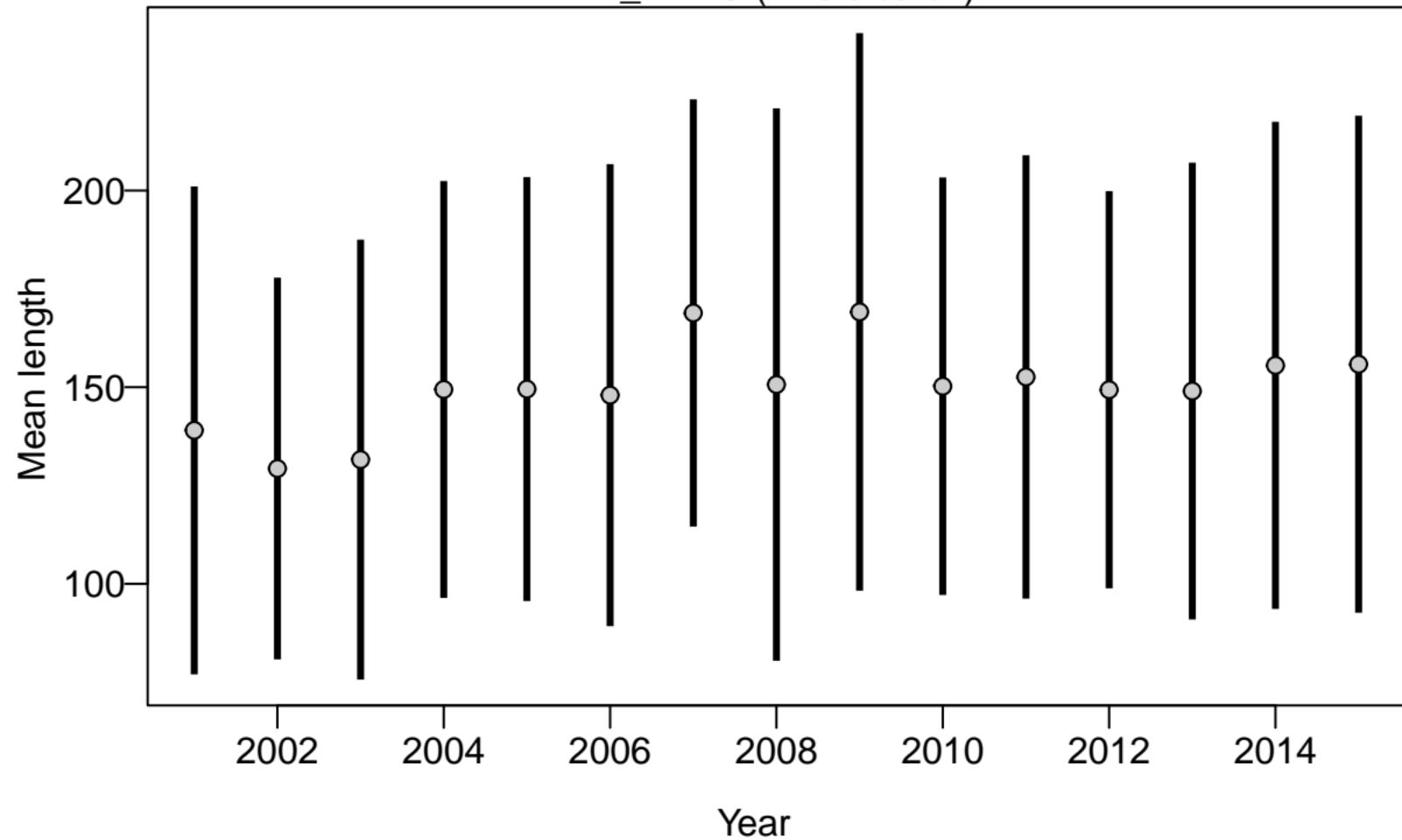


Proportion

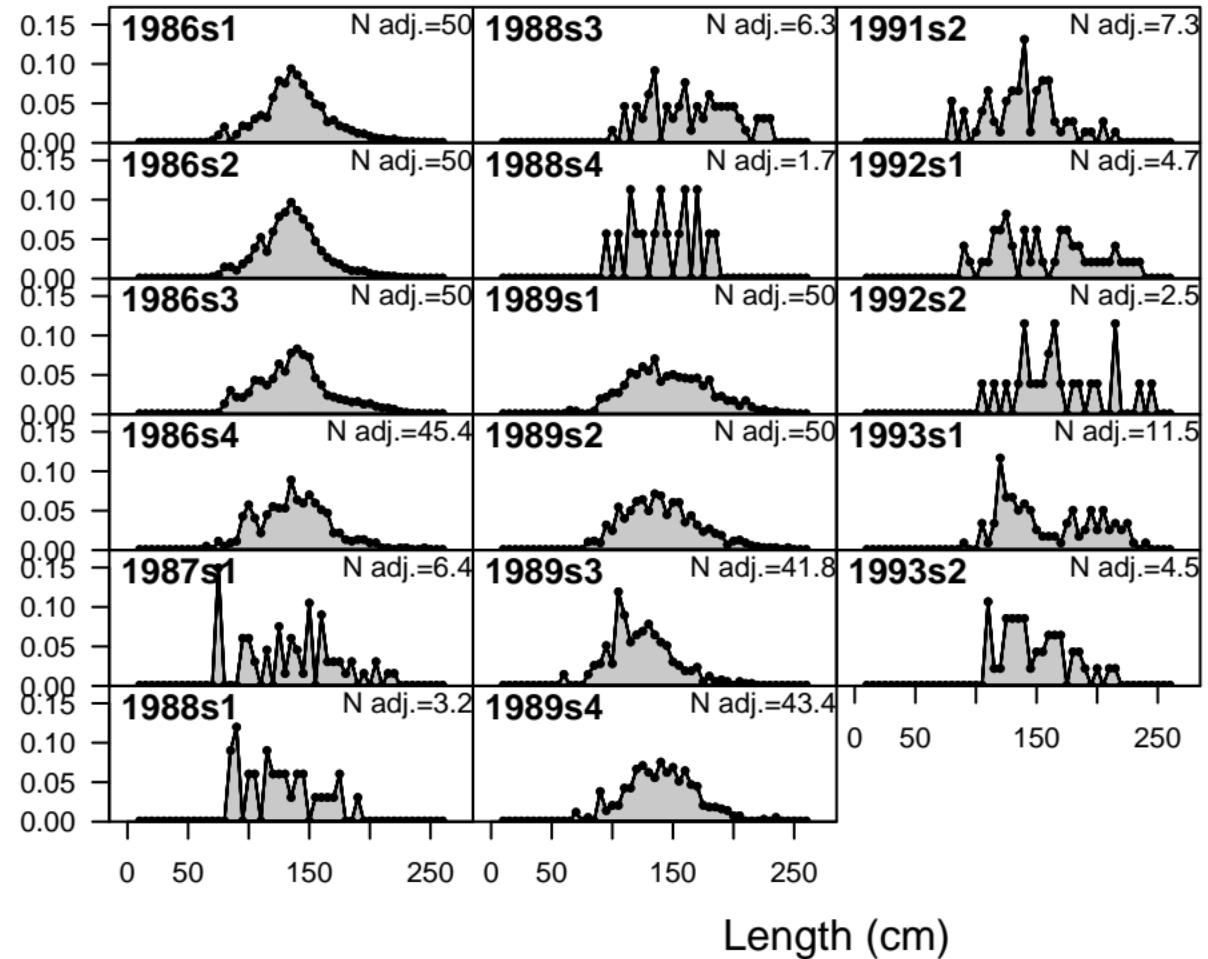


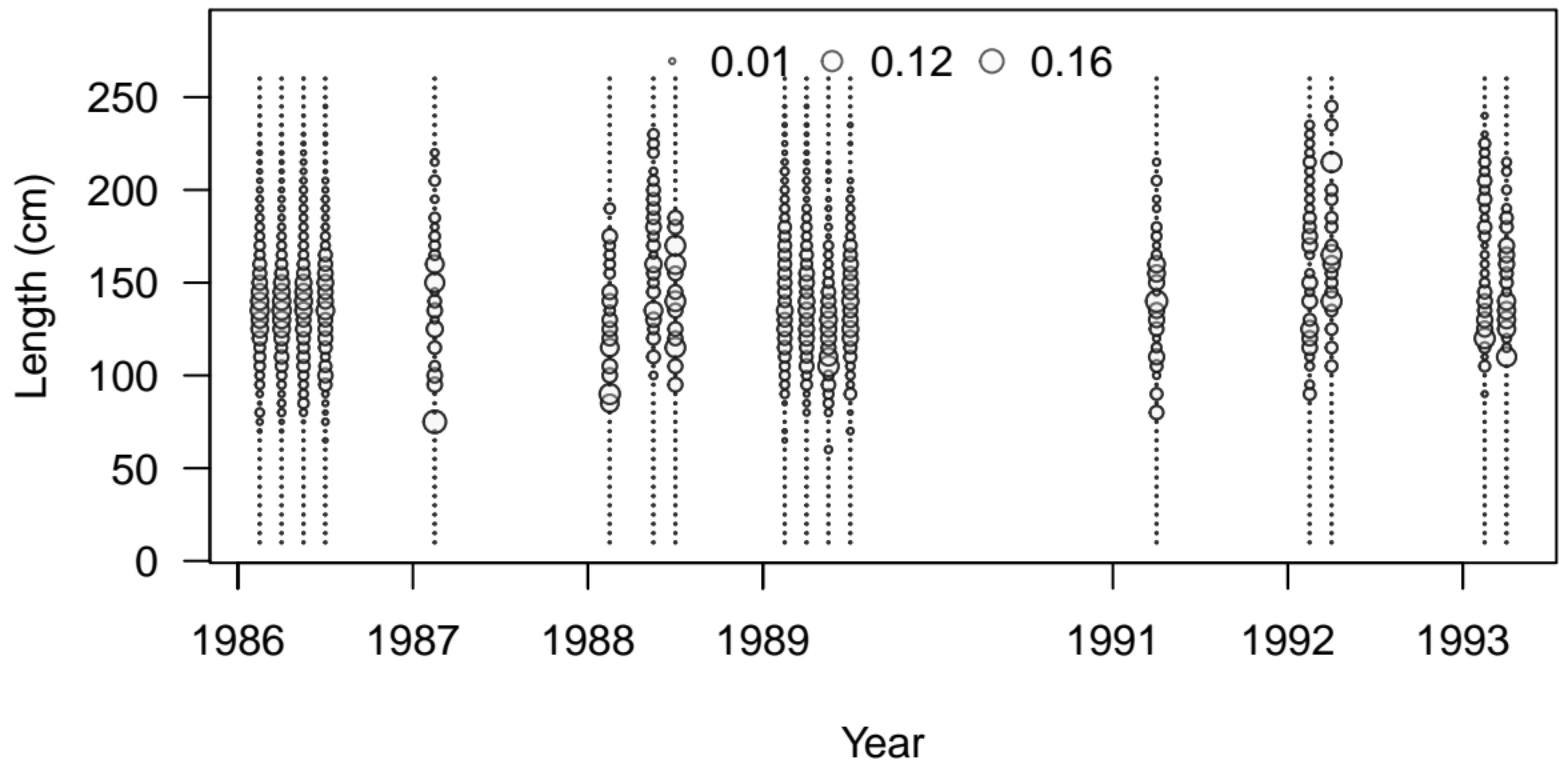


### F4\_IATTC (whole catch)

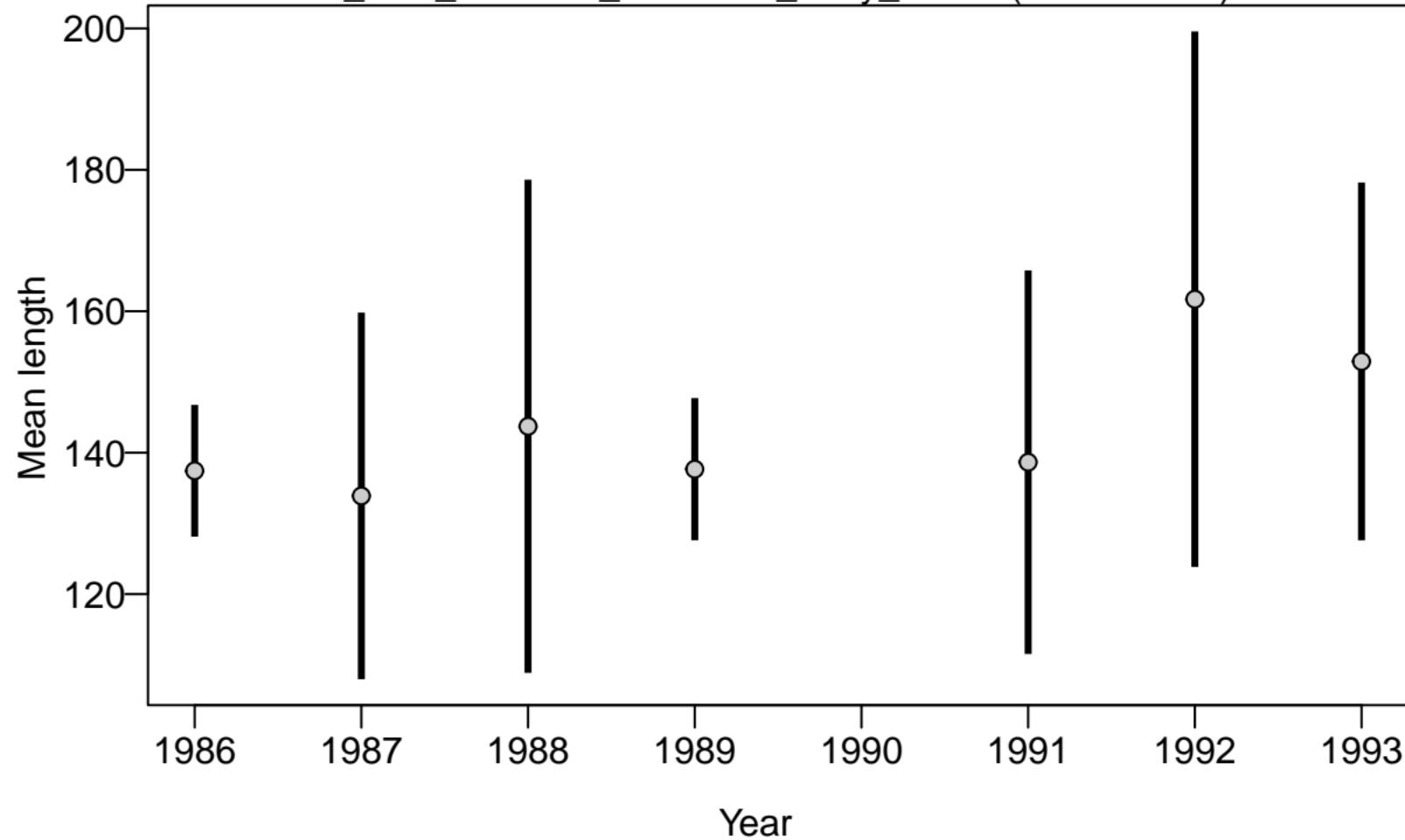


Proportion

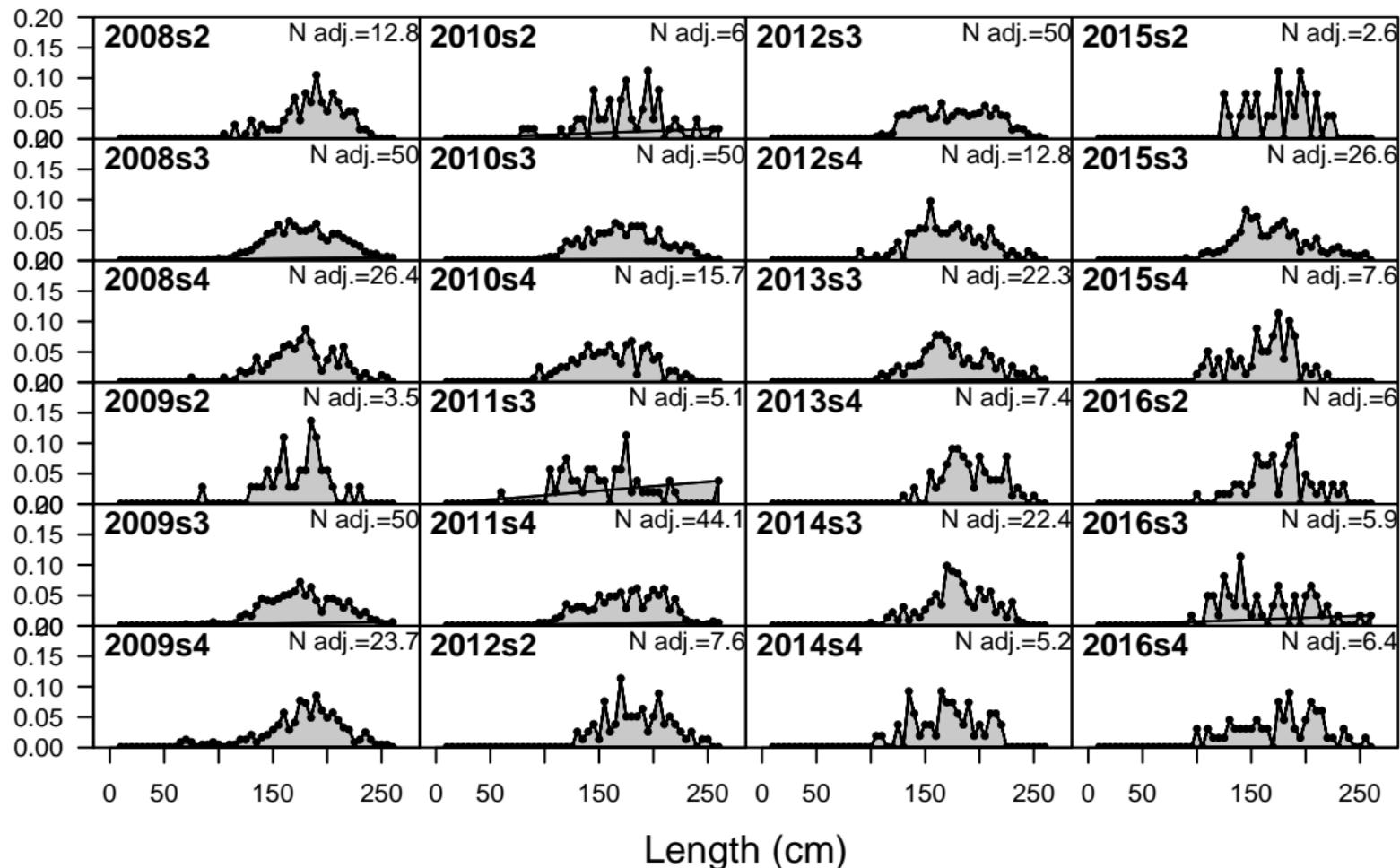




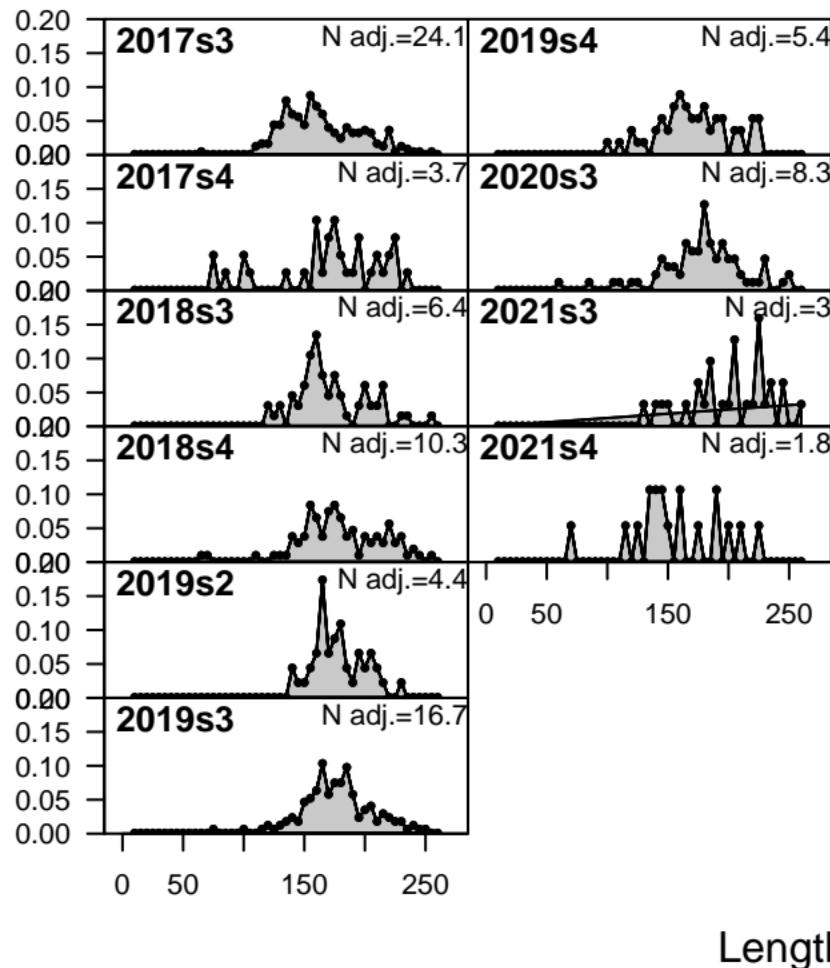
F6\_JPN\_WCNPO OSDWLL\_early\_Area1 (whole catch)

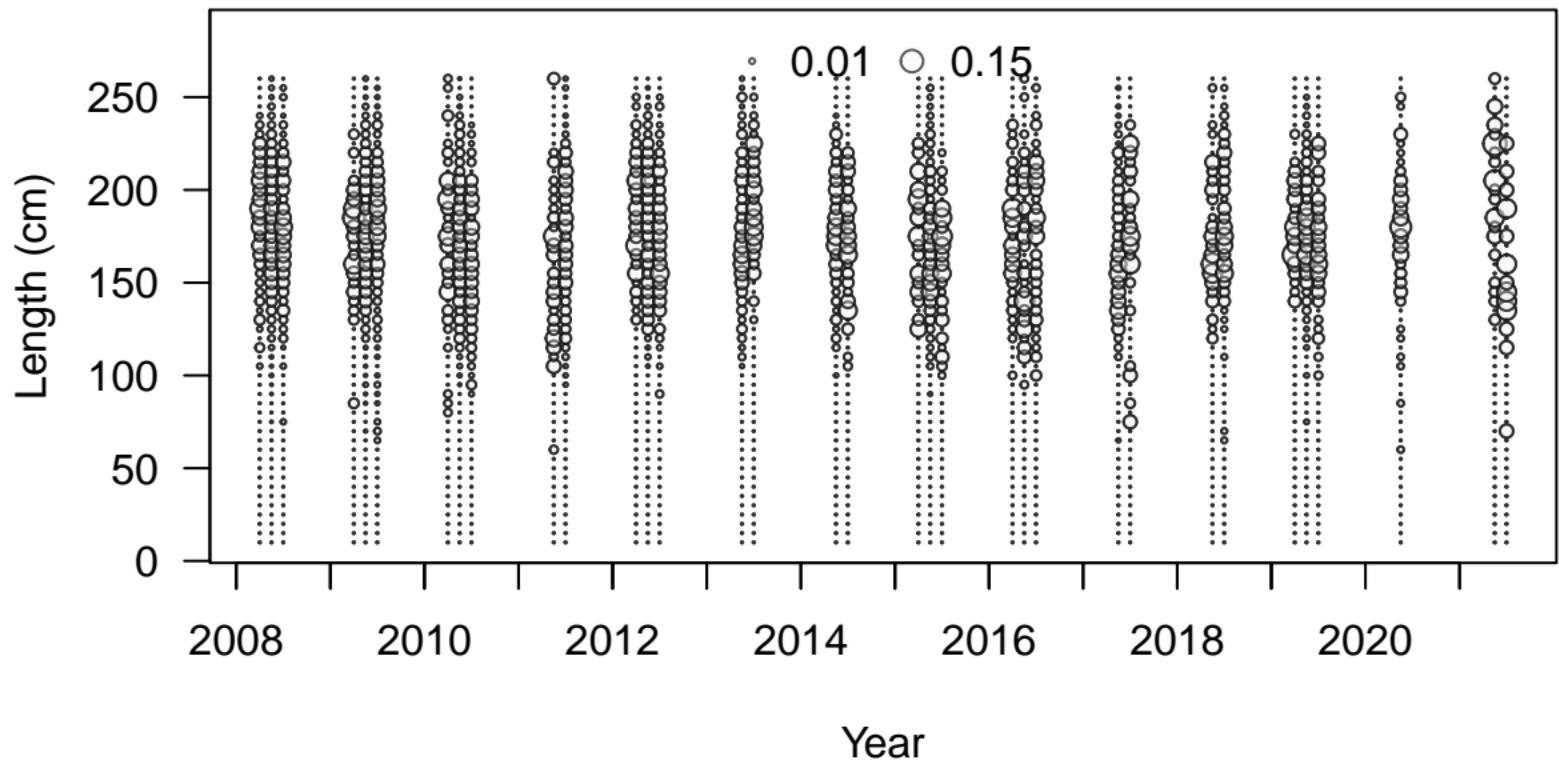


Proportion

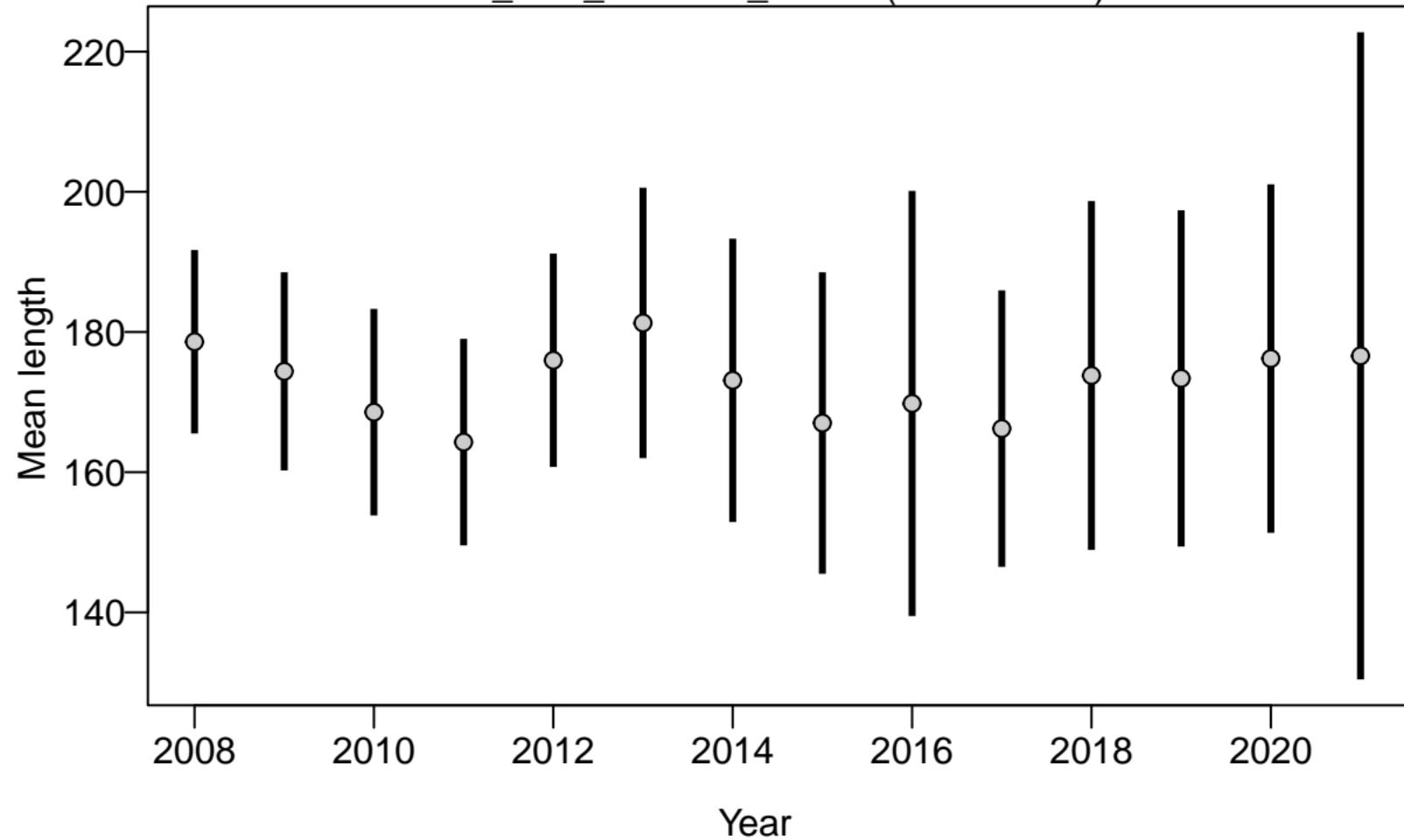


Proportion

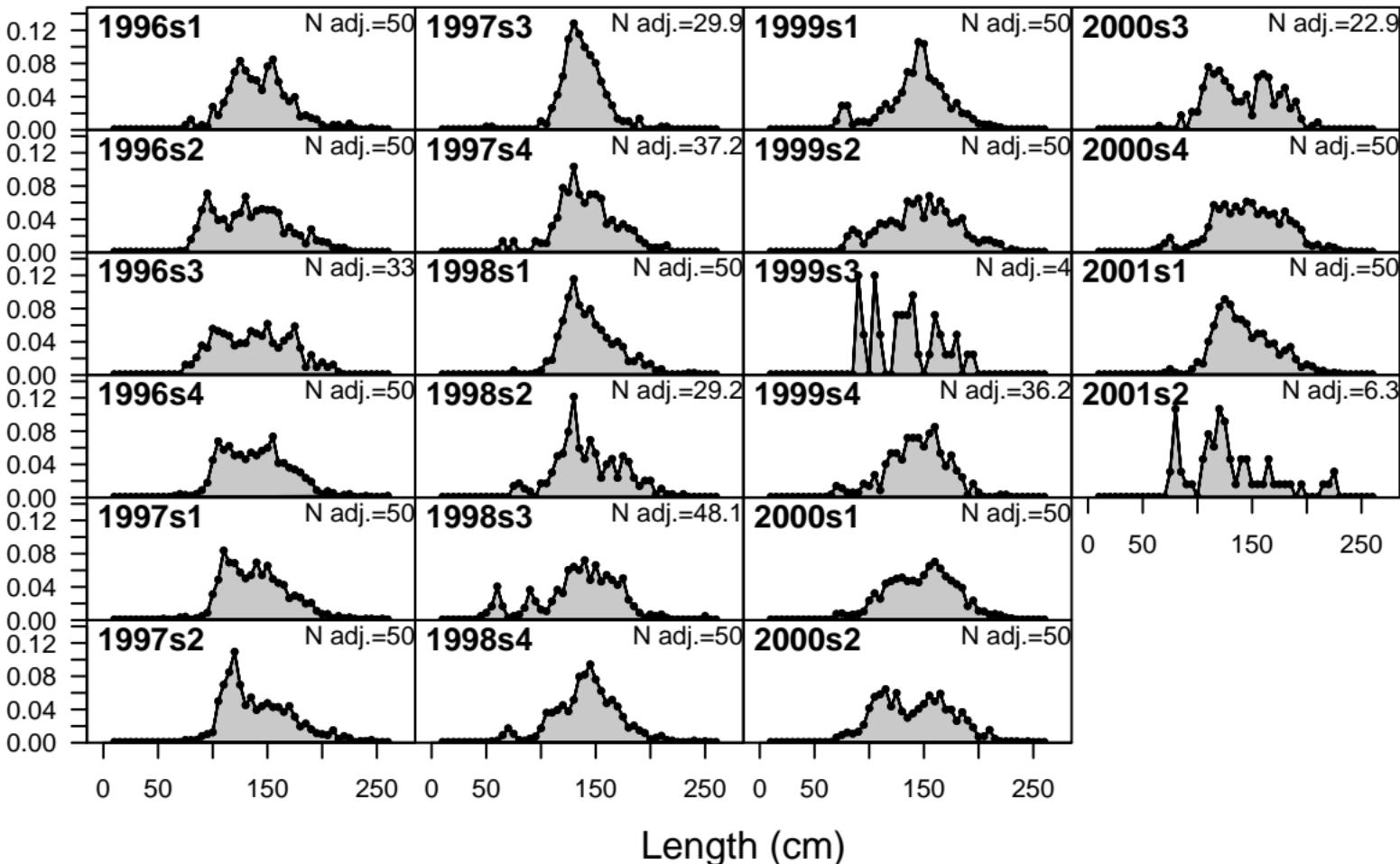


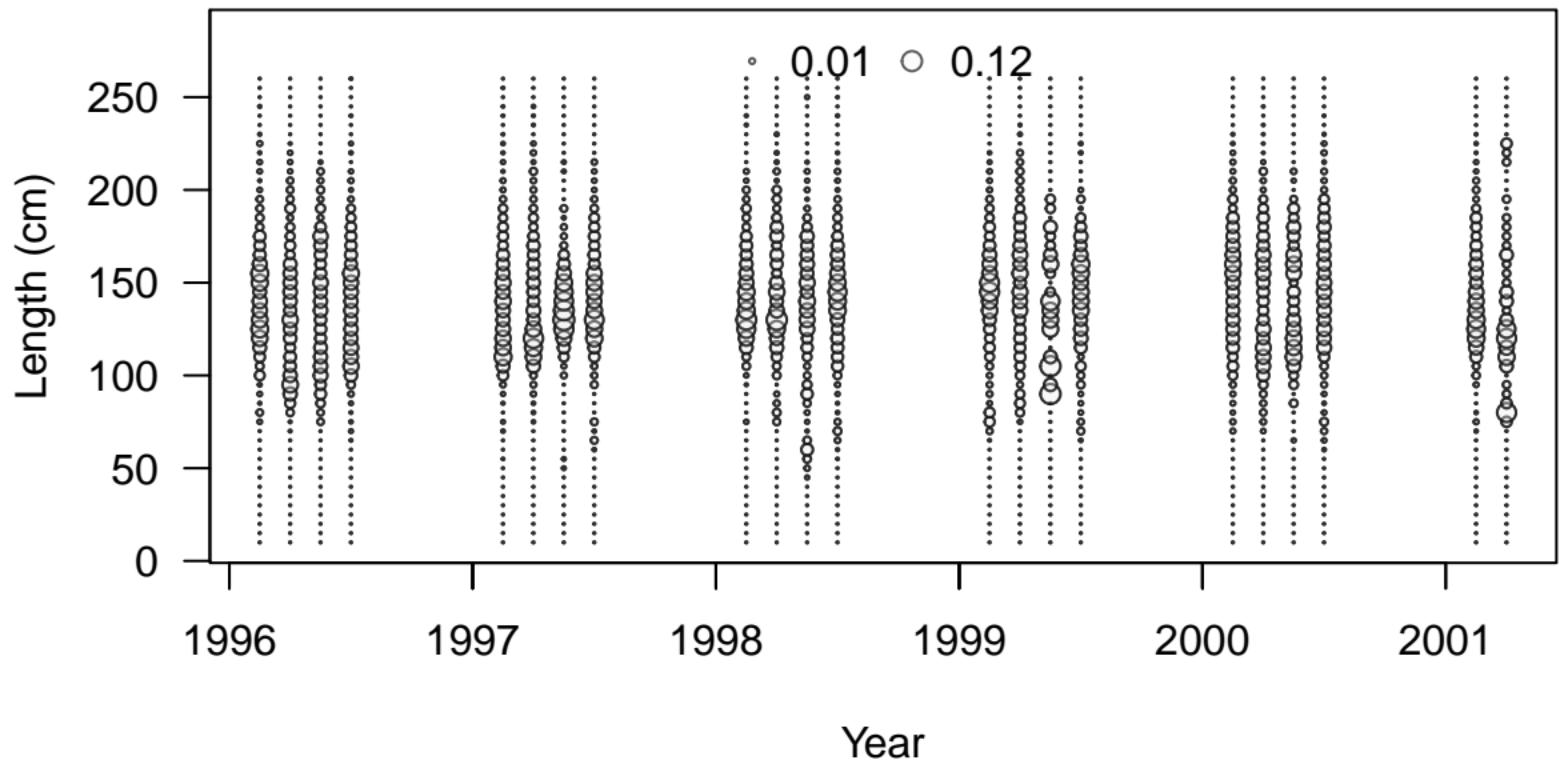


# F7\_JPN\_WCNPO\_CODF (whole catch)

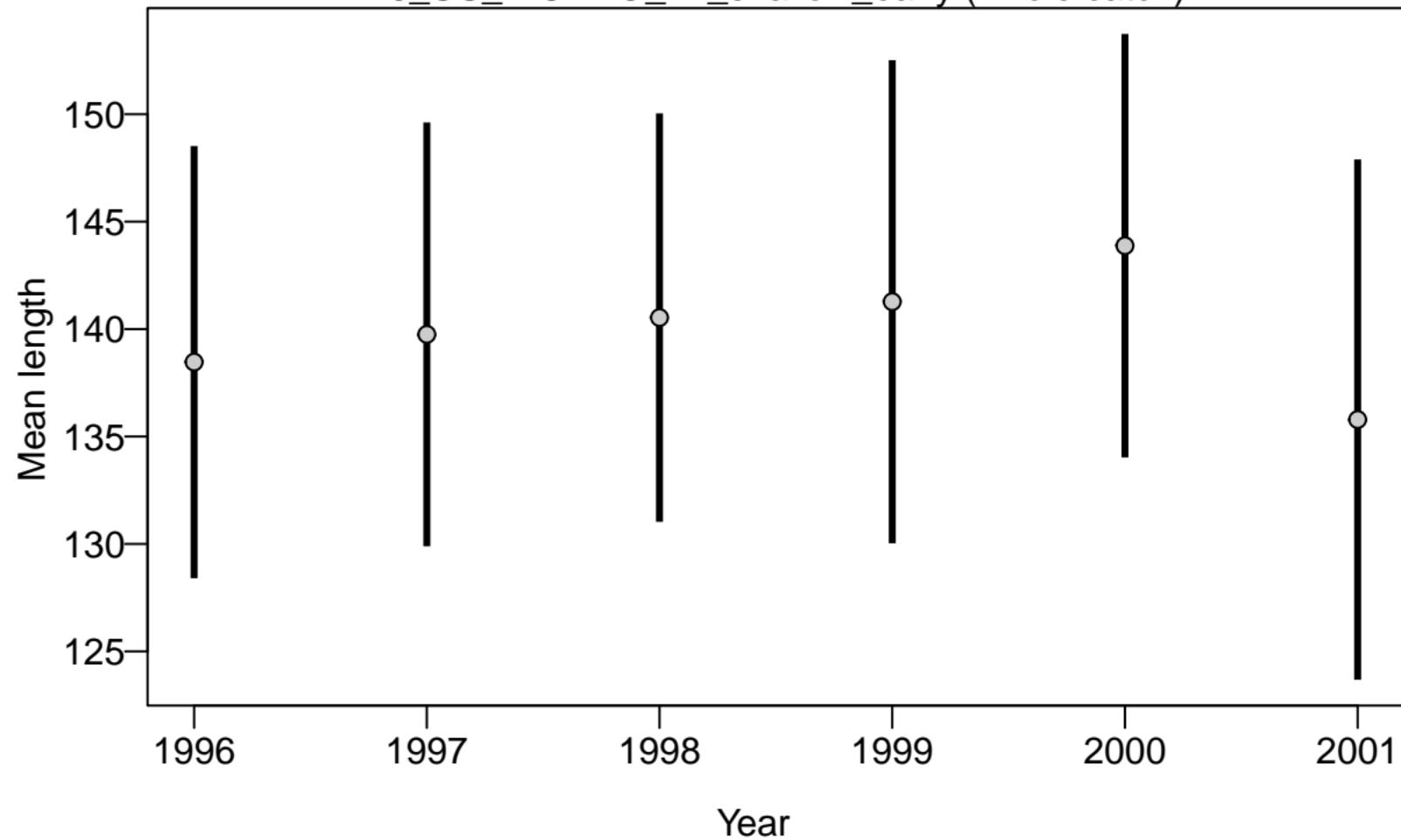


Proportion

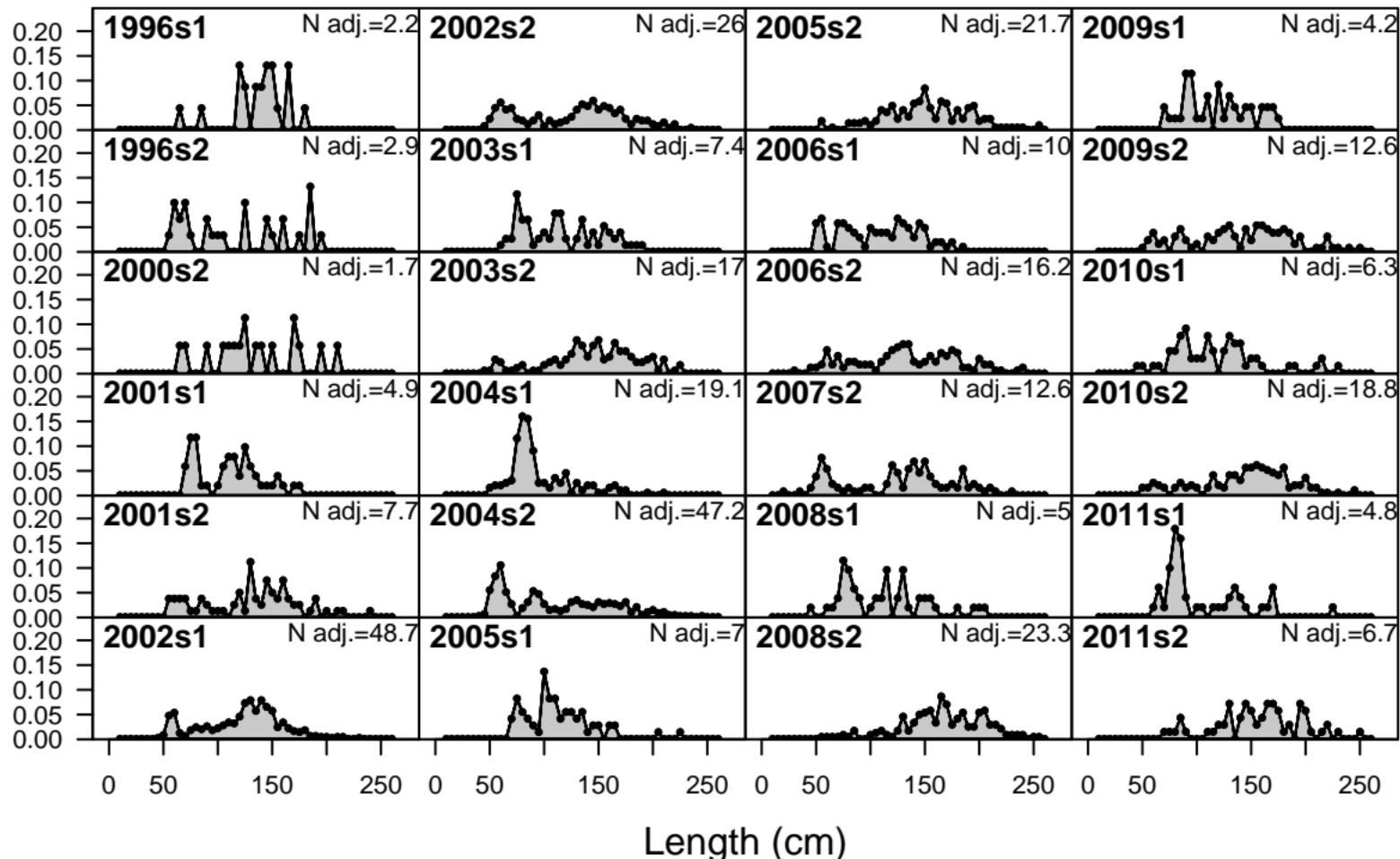




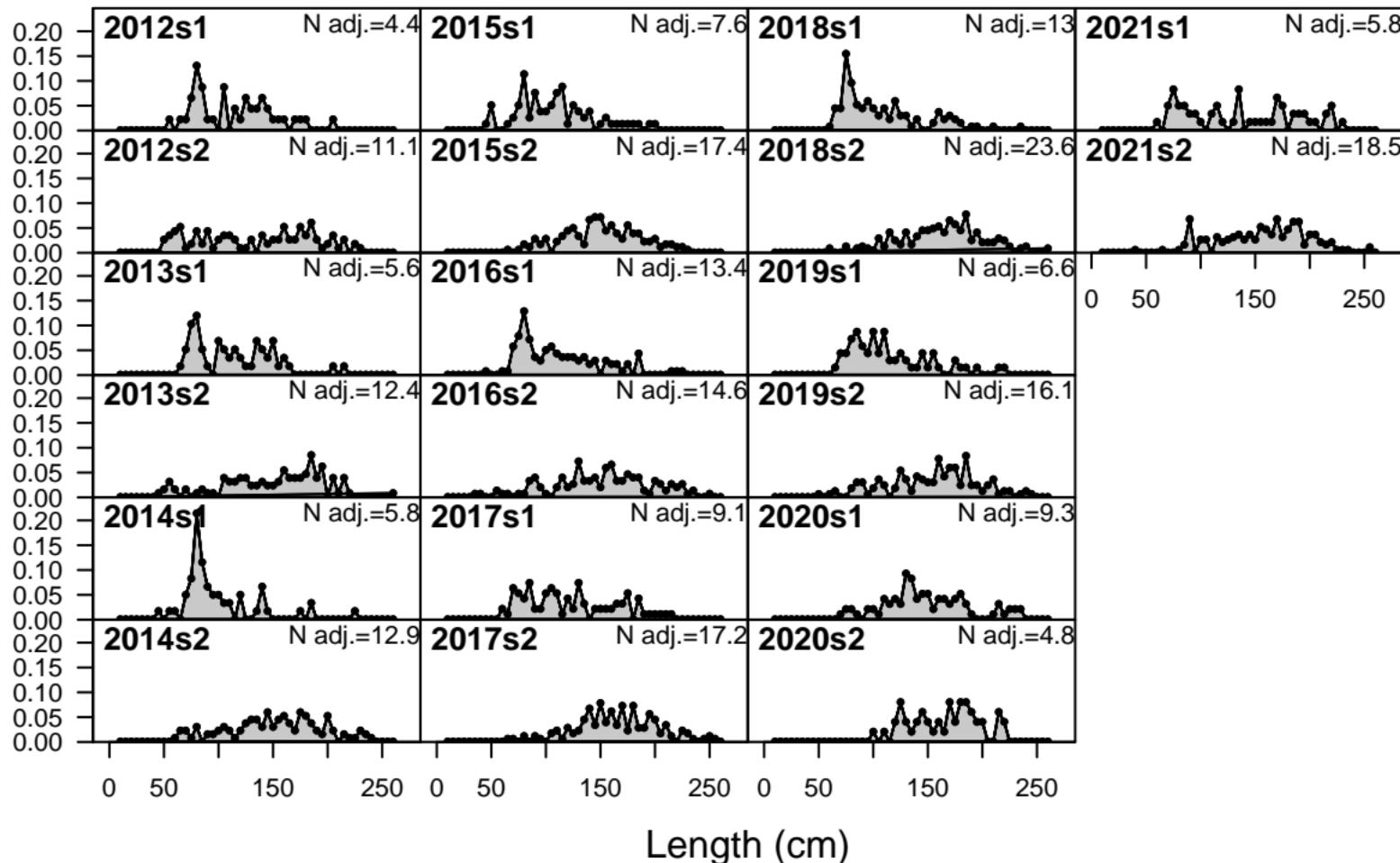
# F8\_US\_WCNPO\_LL\_shallow\_early (whole catch)

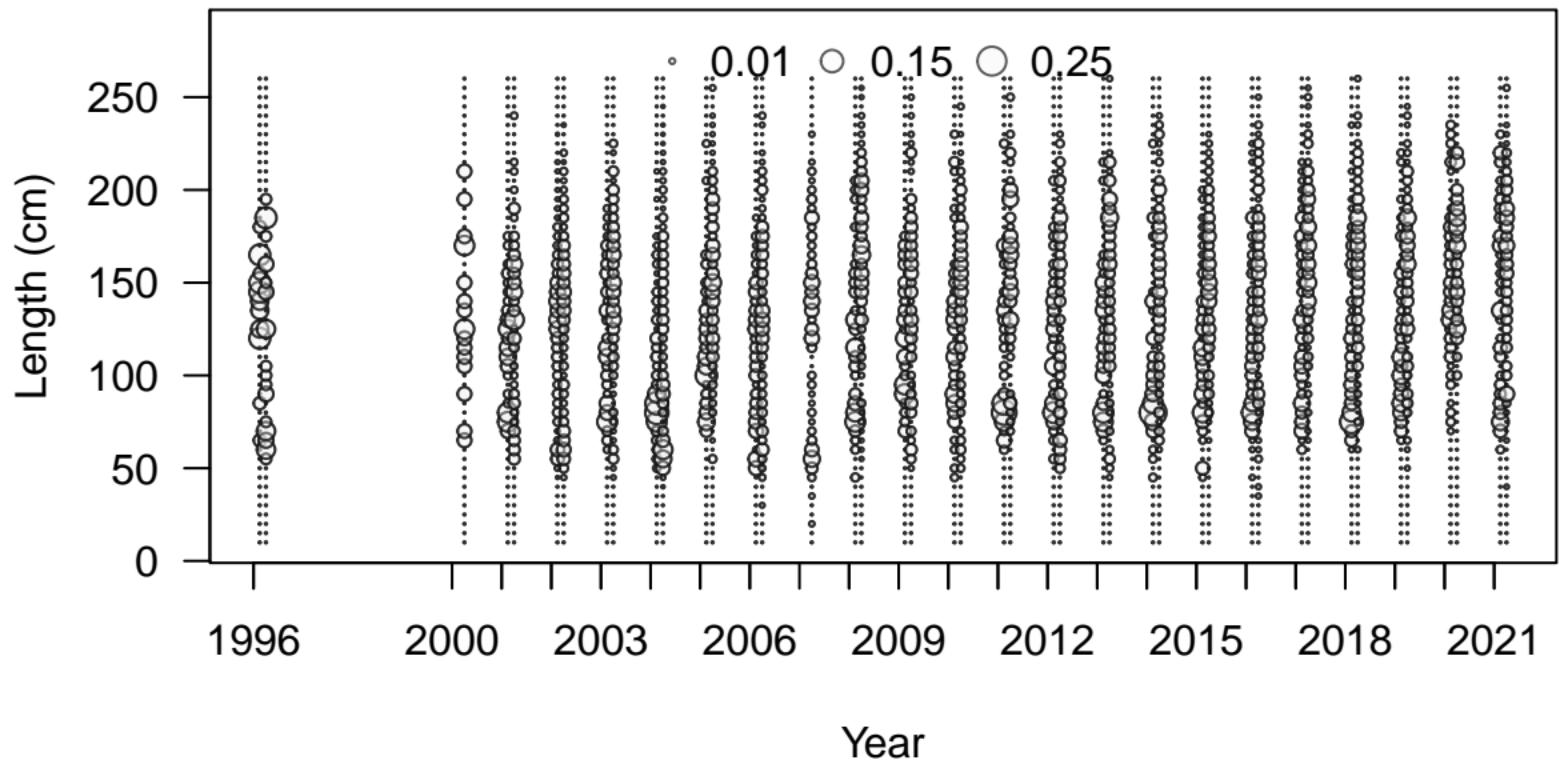


Proportion

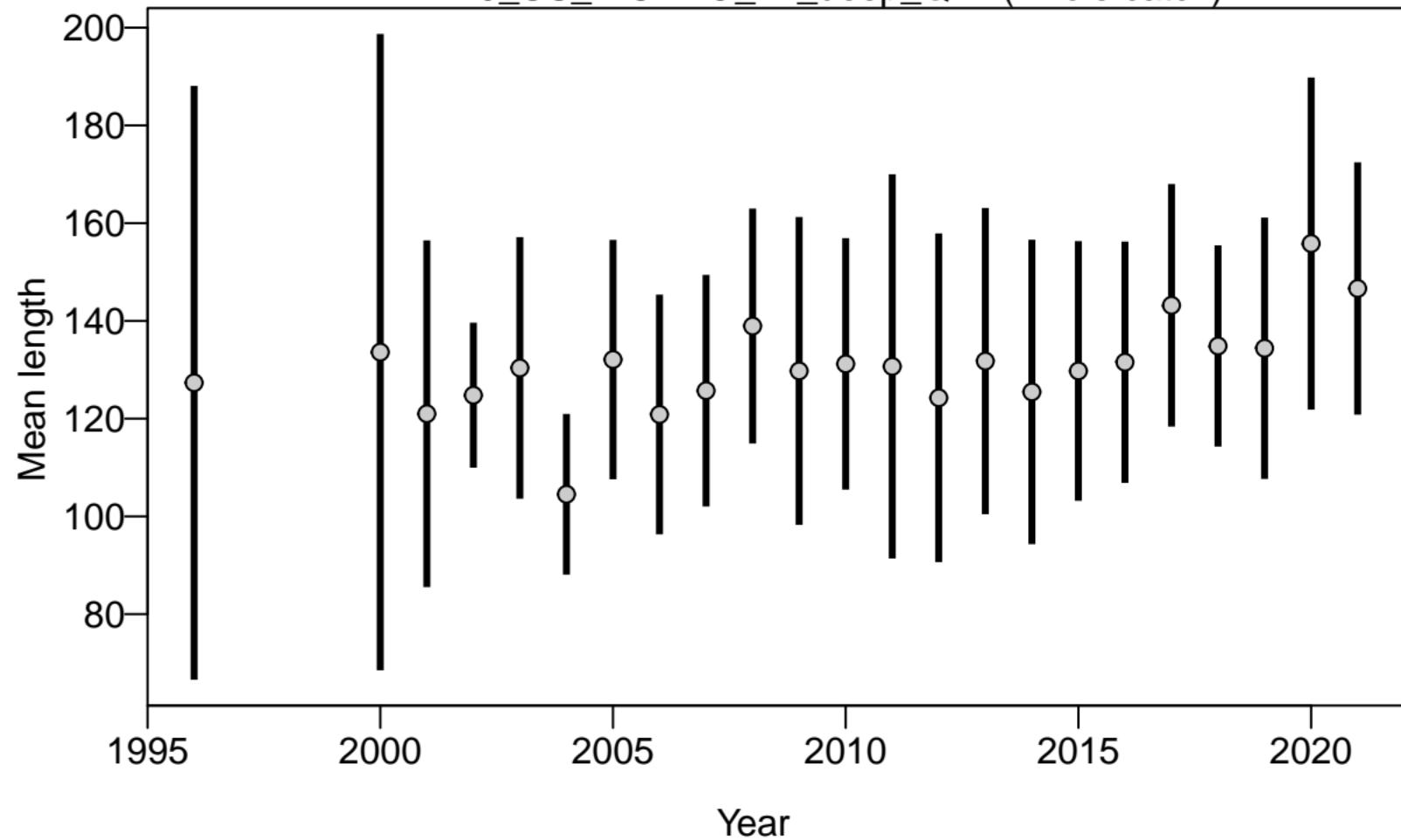


Proportion

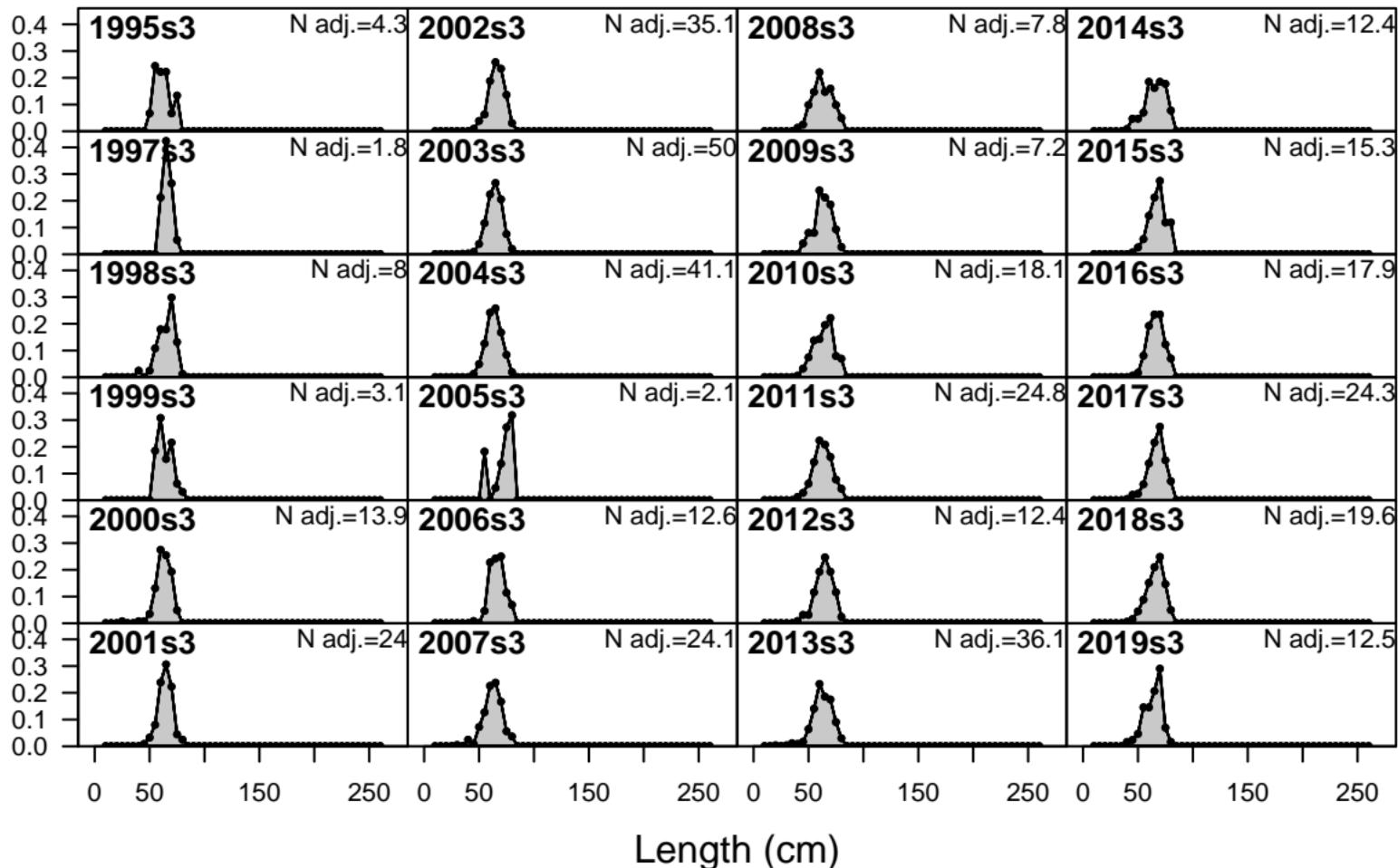




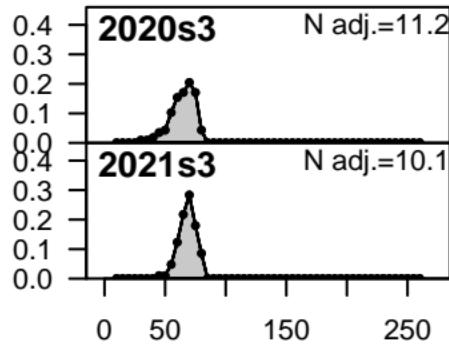
F9\_US\_WCNPO\_LL\_deep\_Q12 (whole catch)

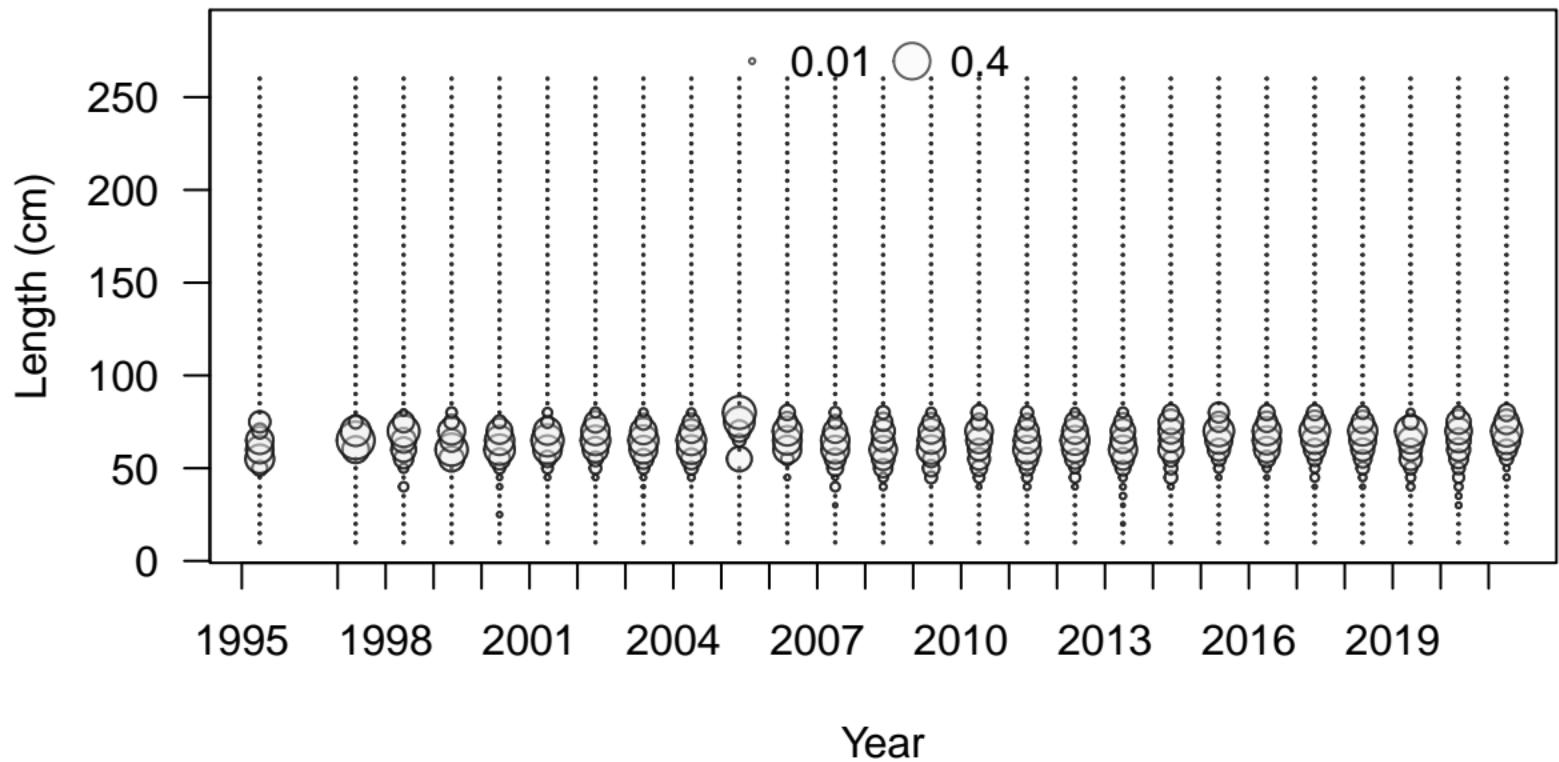


Proportion

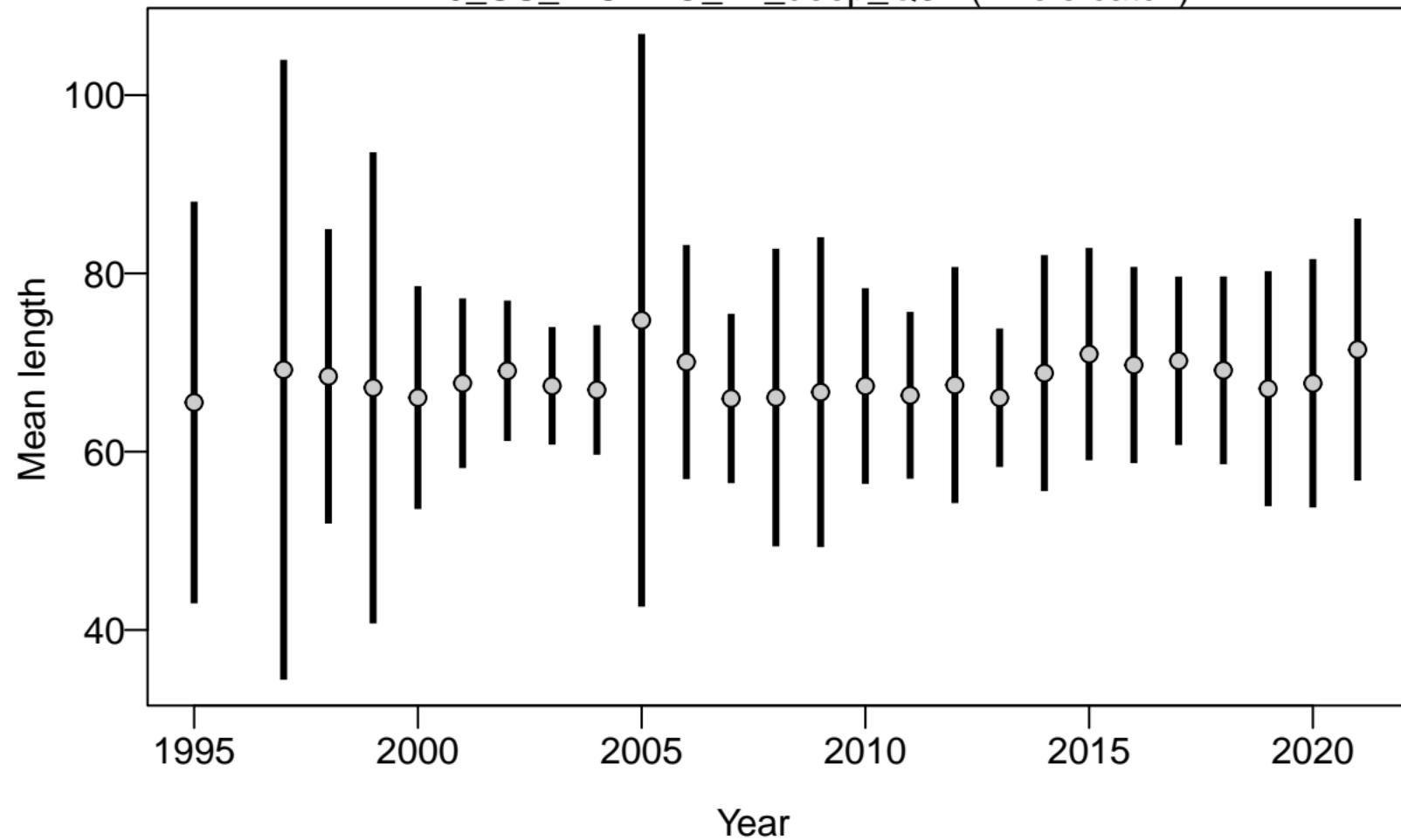


Proportion

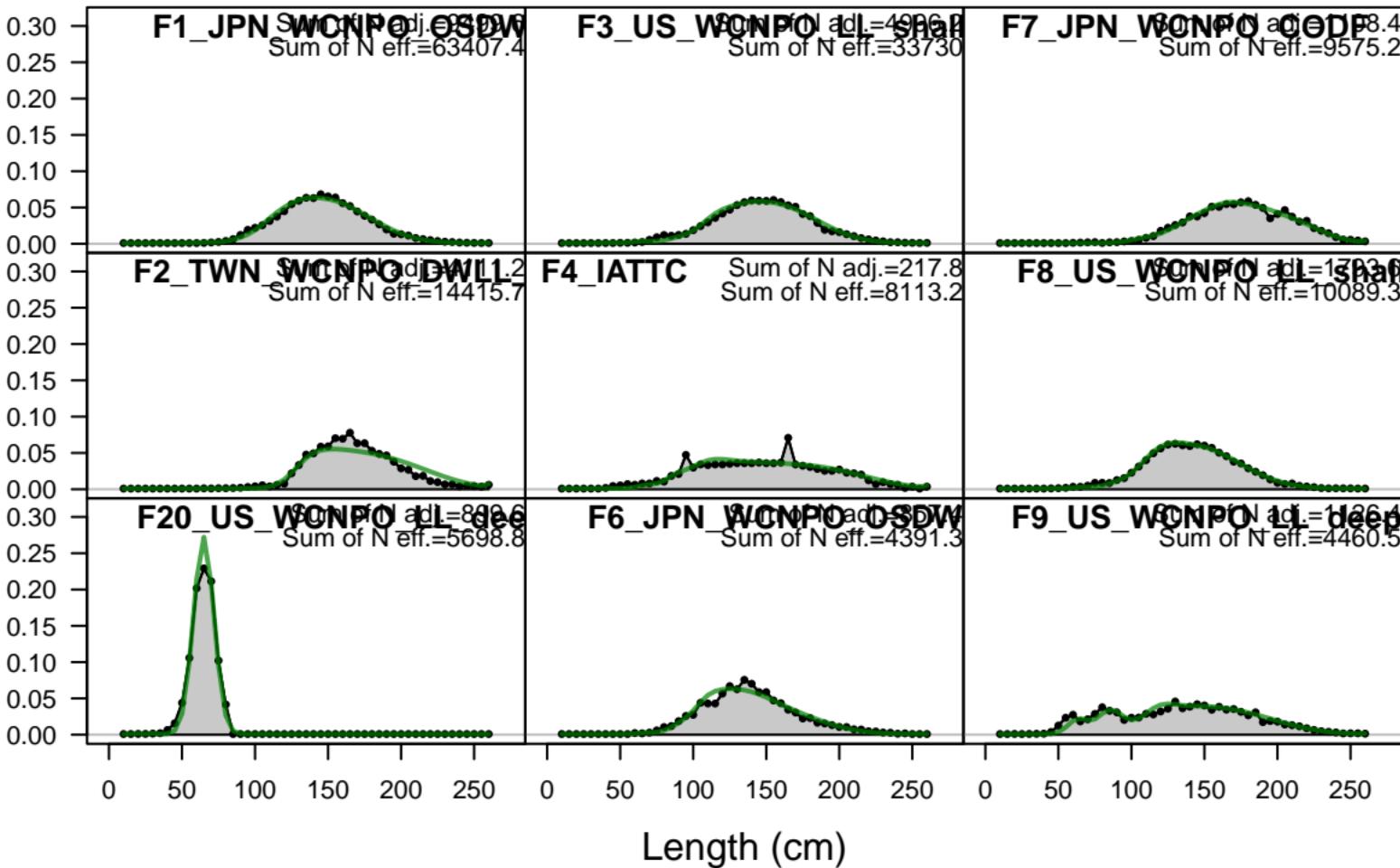


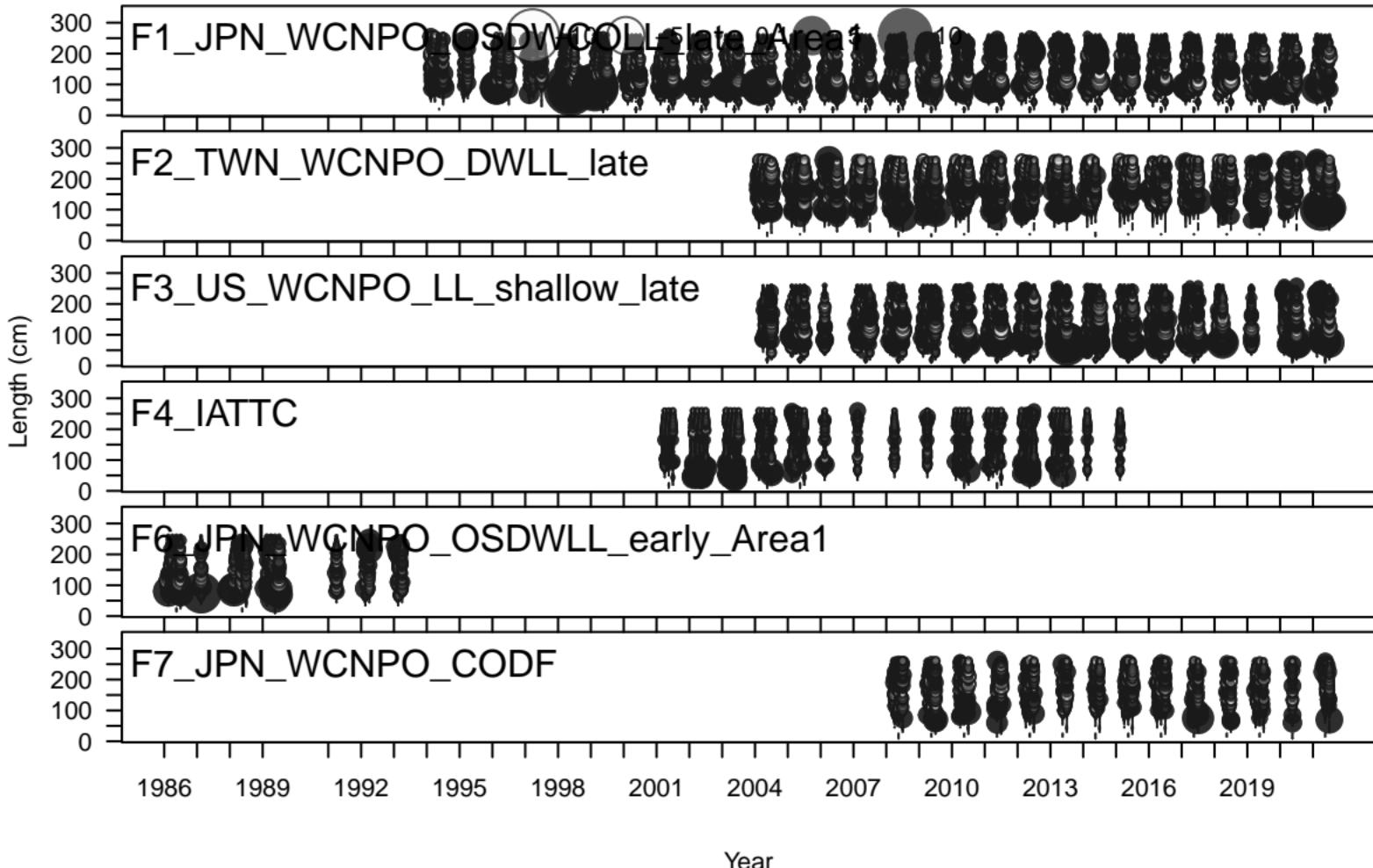


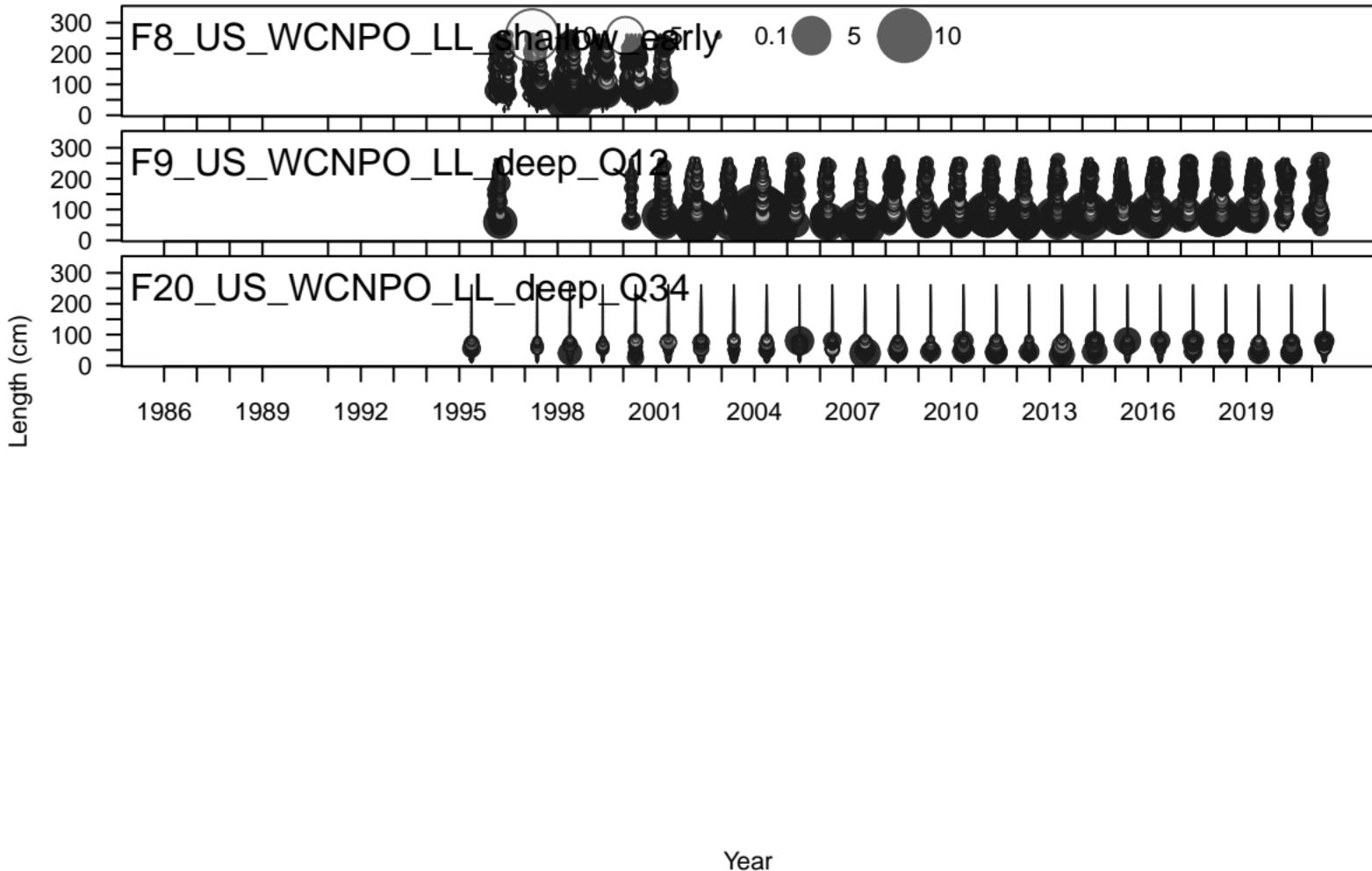
# F20\_US\_WCNPO\_LL\_deep\_Q34 (whole catch)



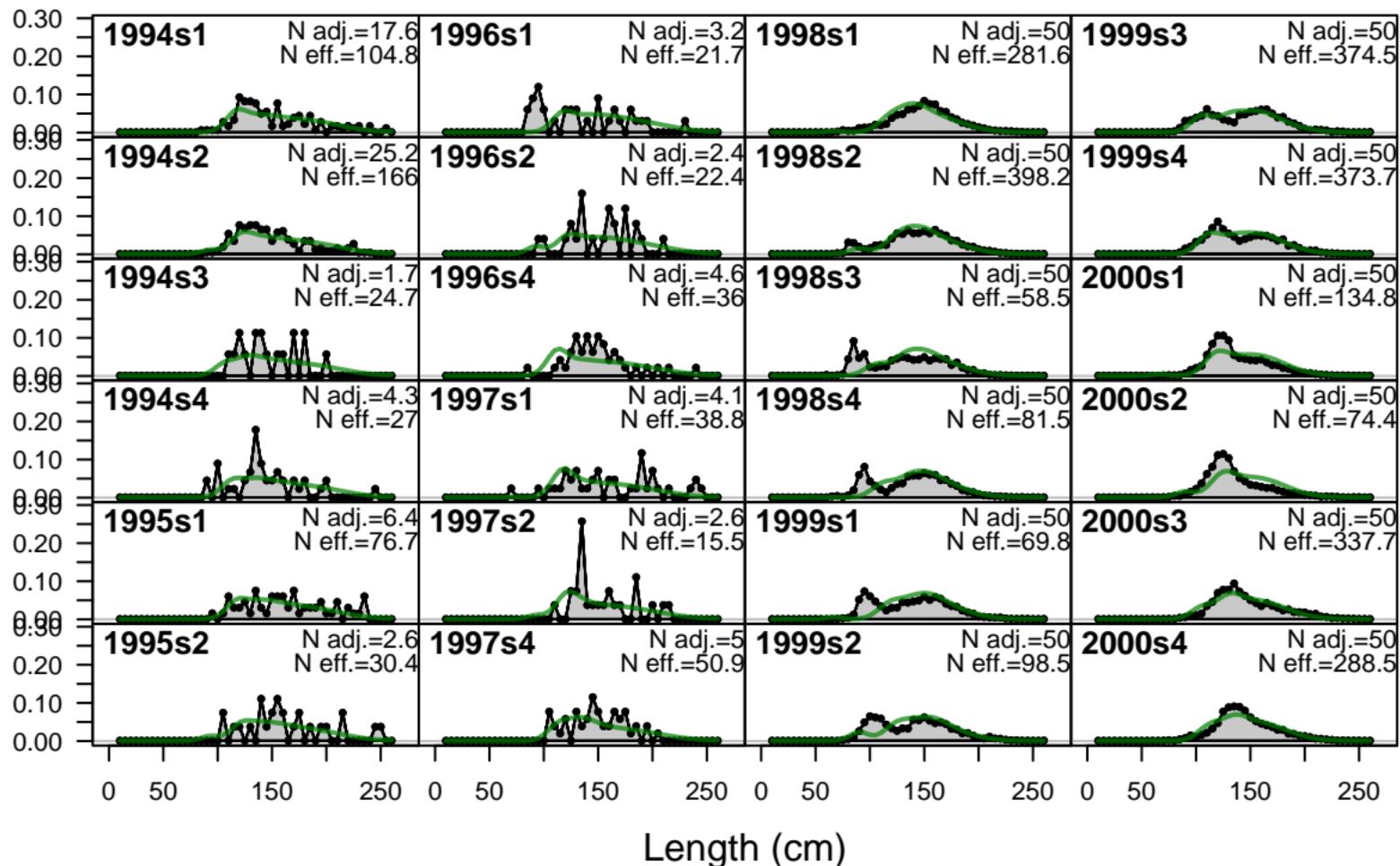
Proportion



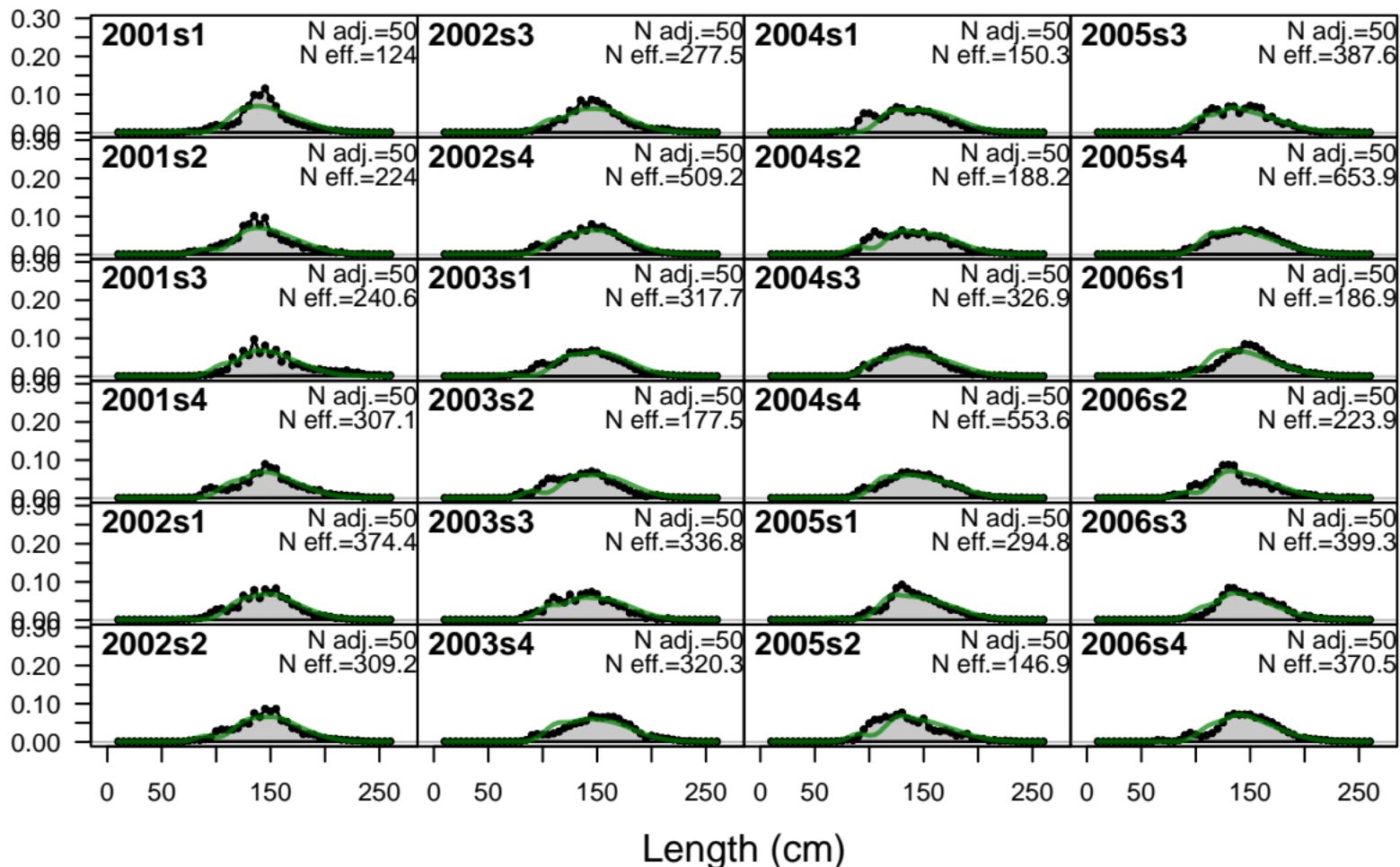




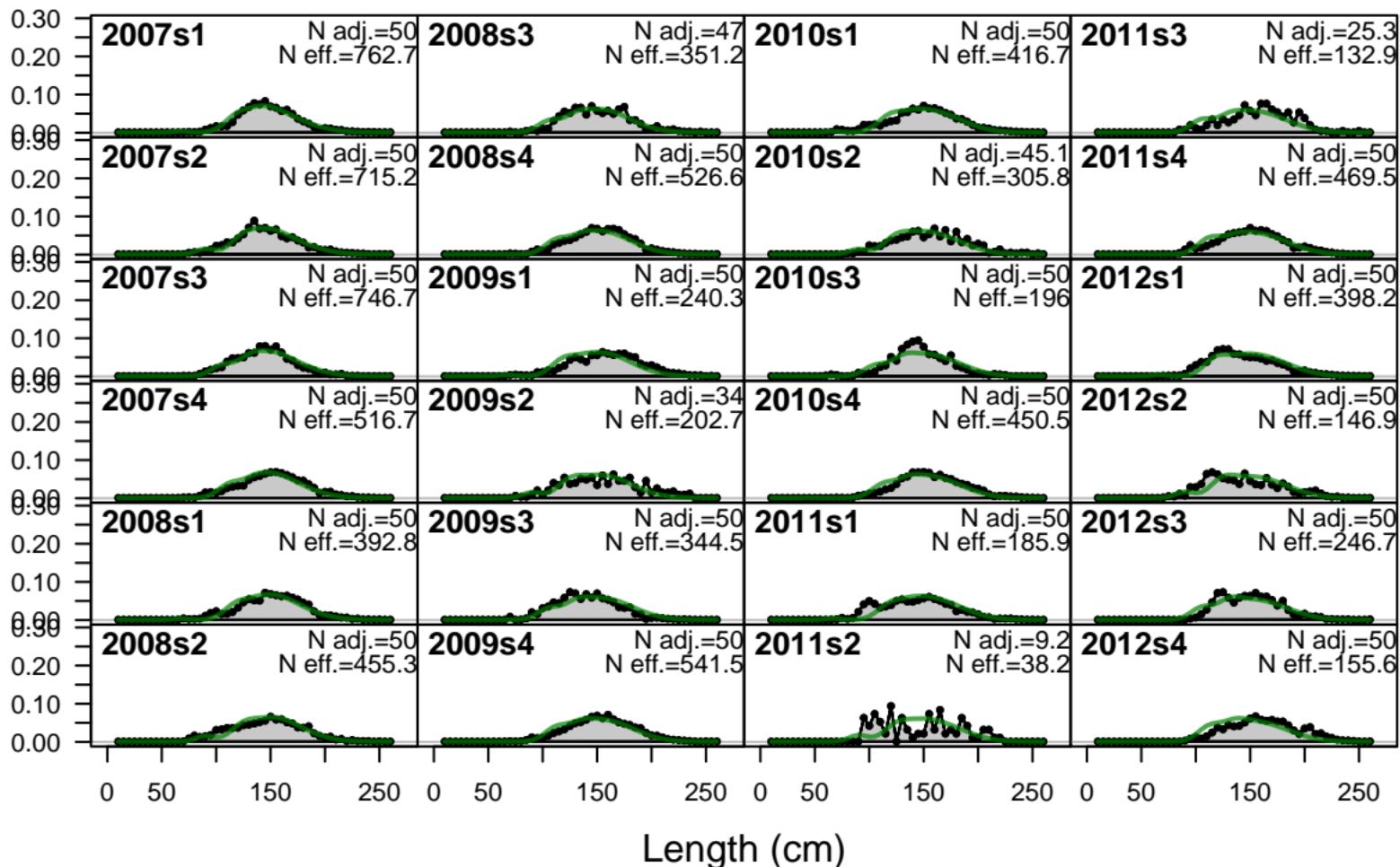
Proportion



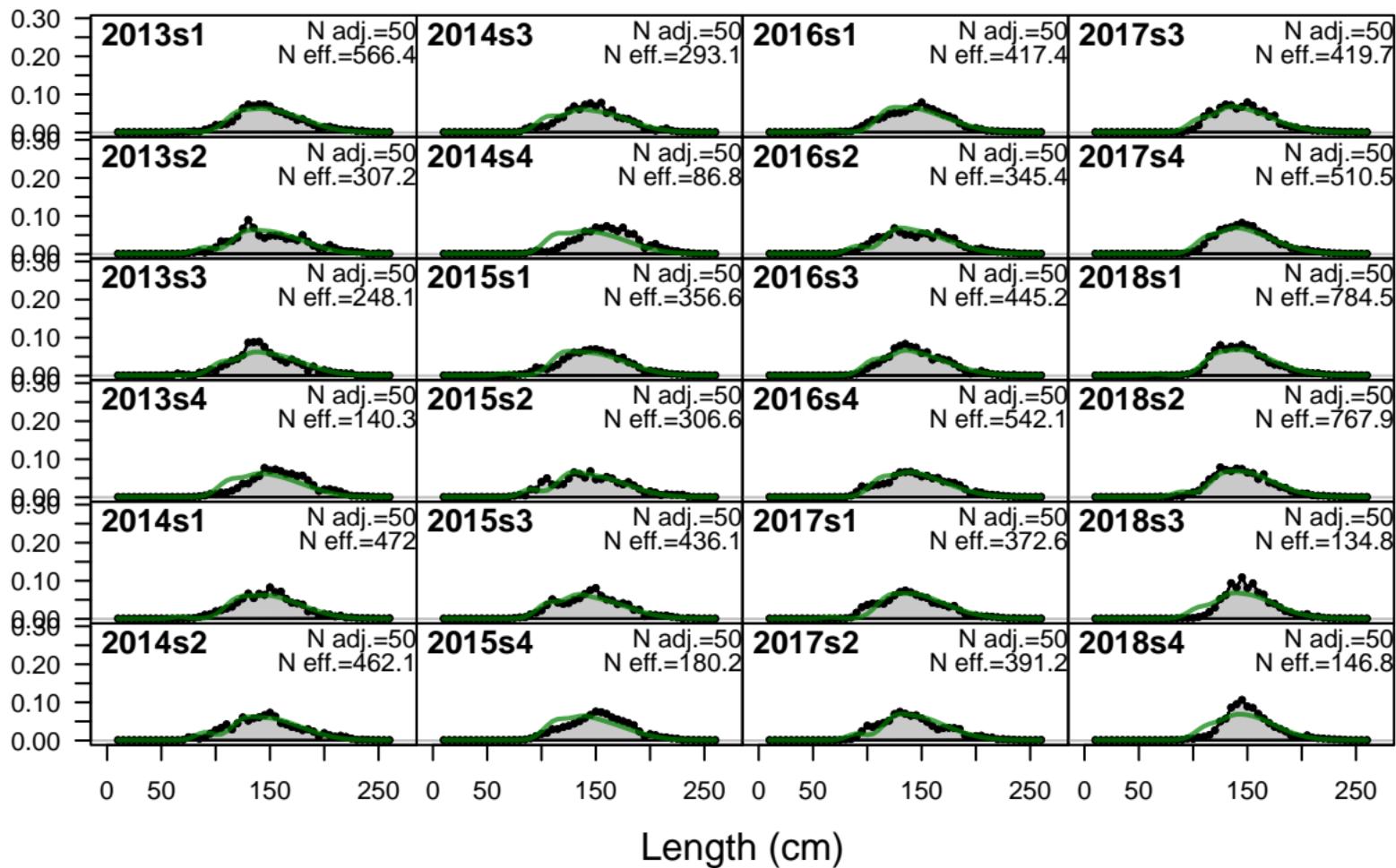
Proportion



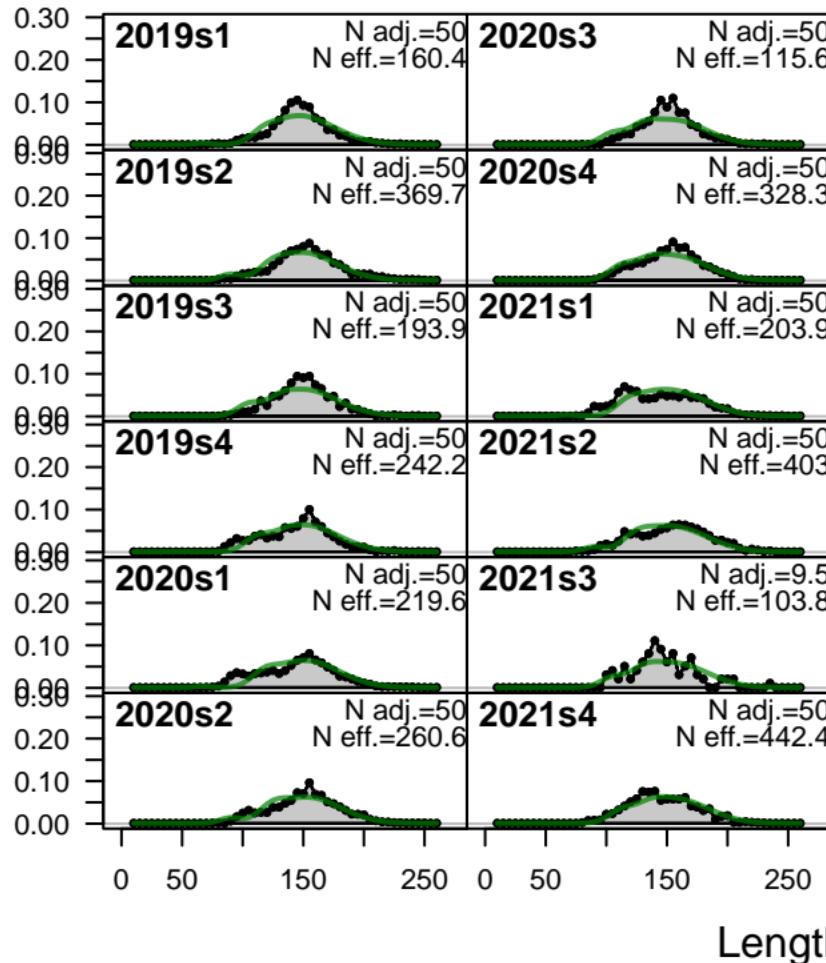
Proportion

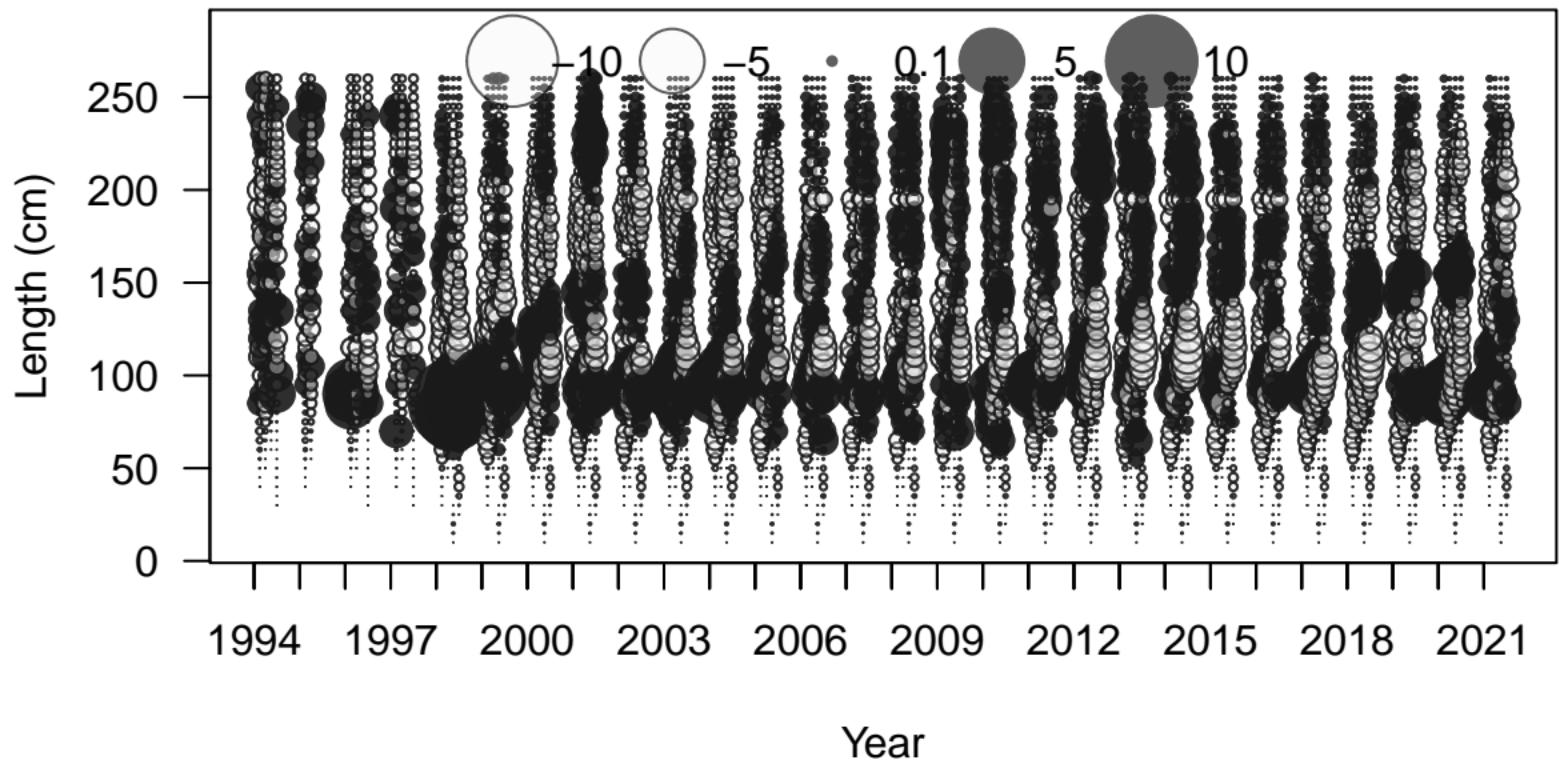


Proportion

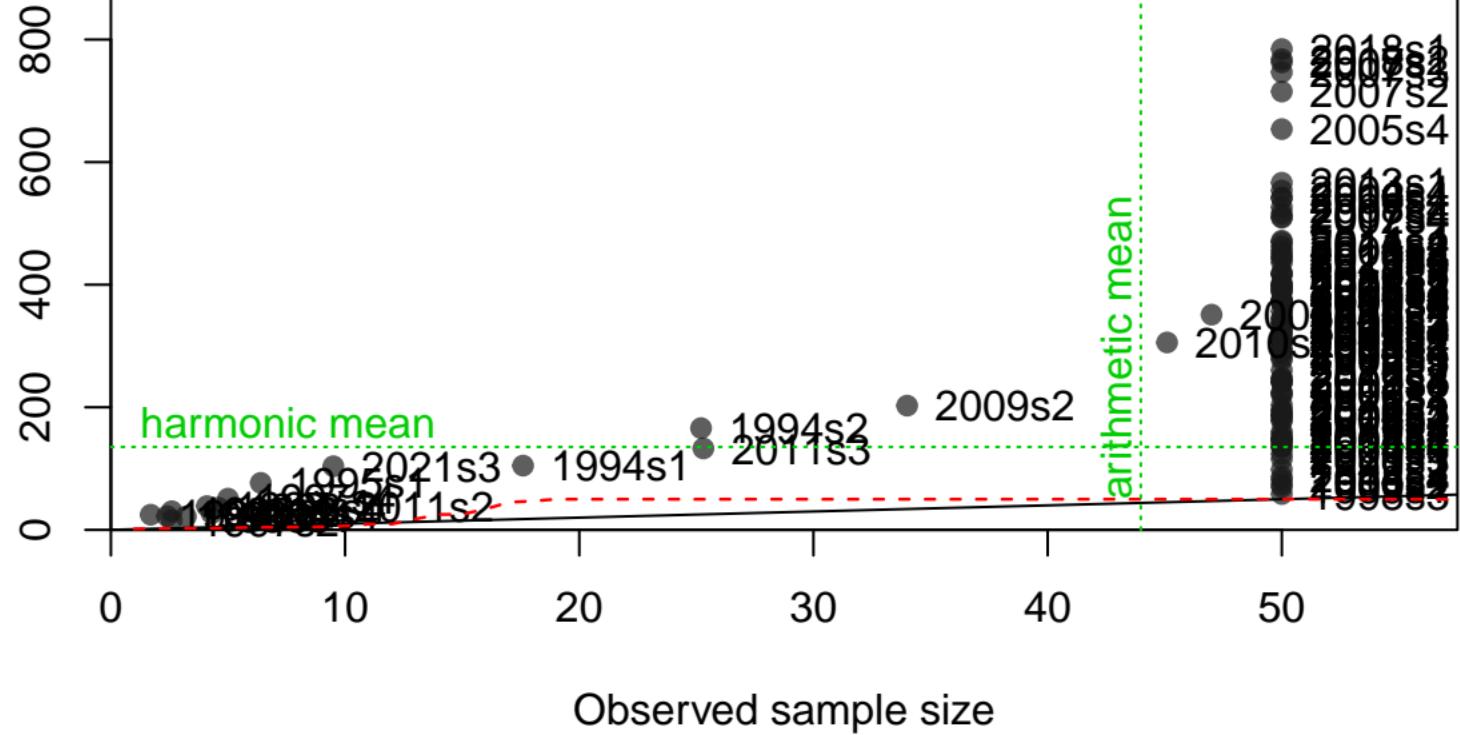


Proportion

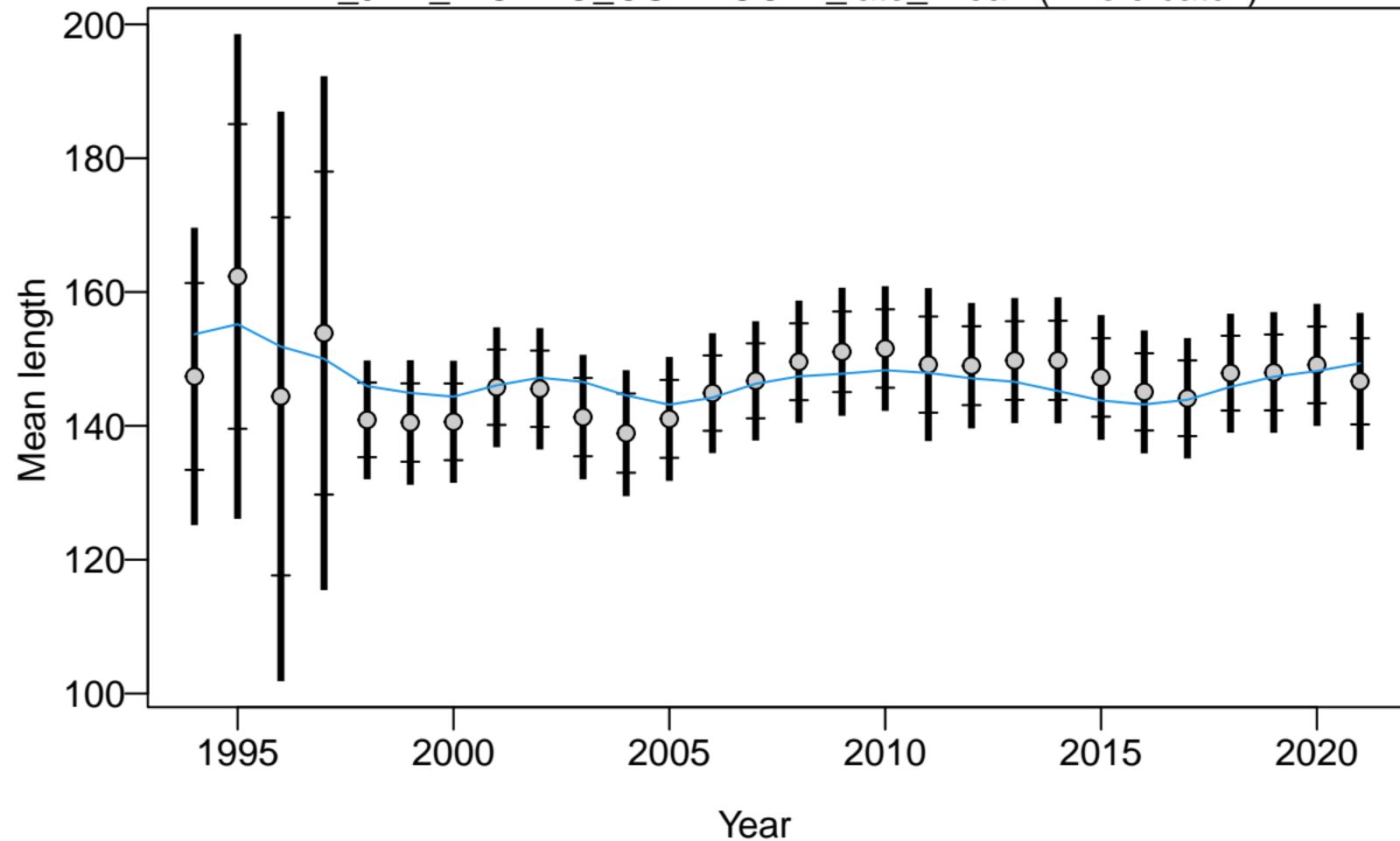




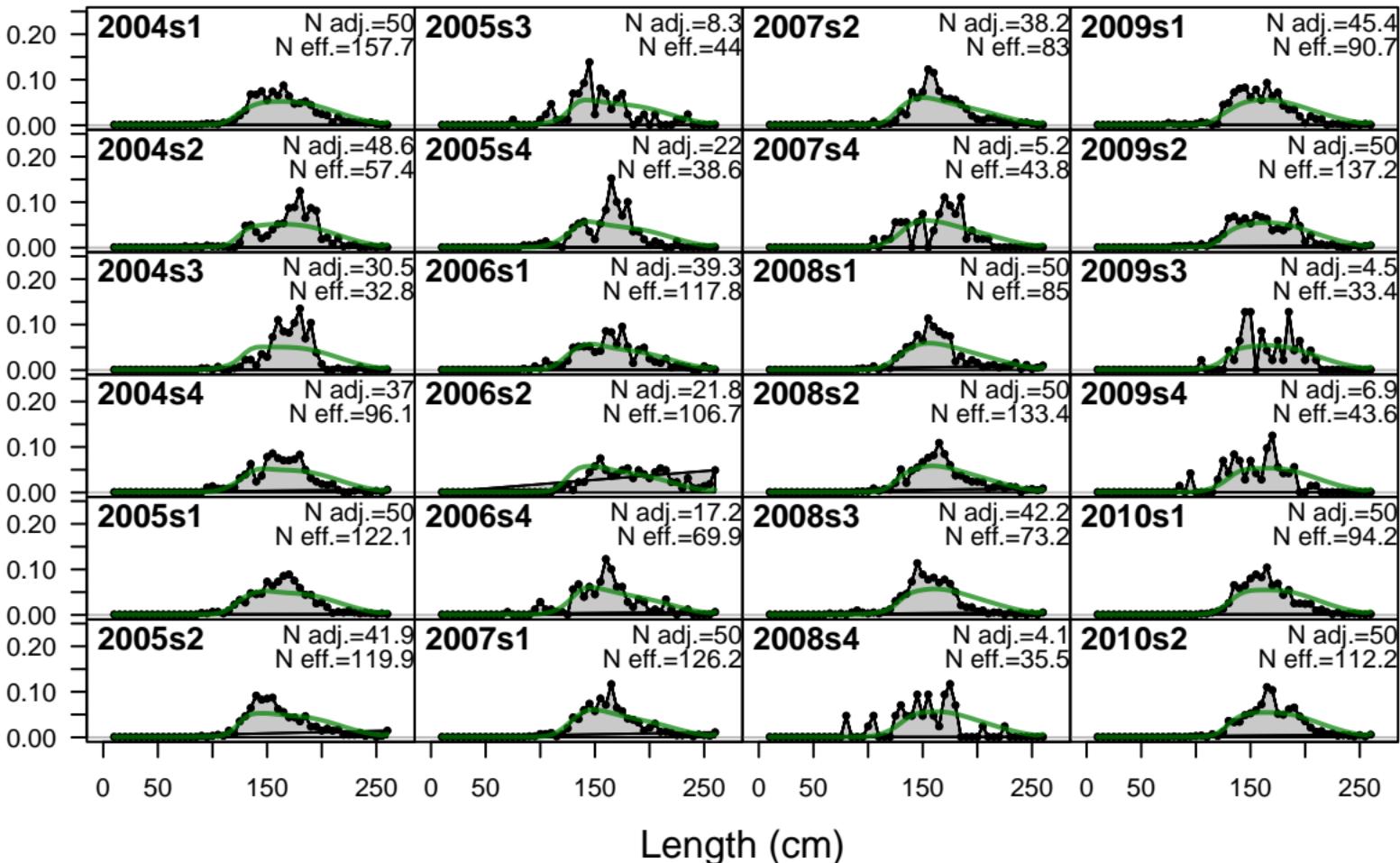
Effective sample size



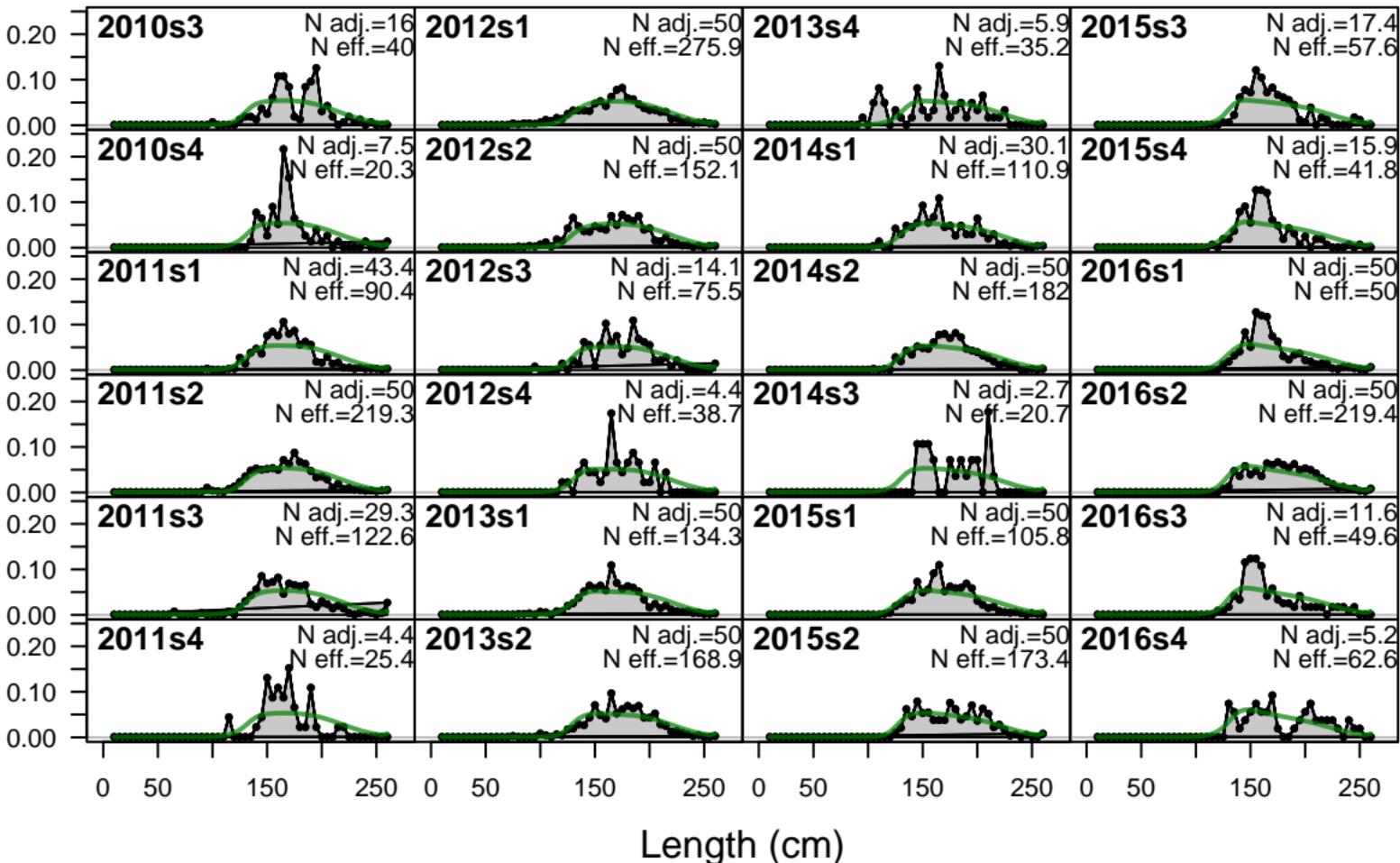
F1\_JPN\_WCNPO OSDWCOLL\_late\_Area1 (whole catch)



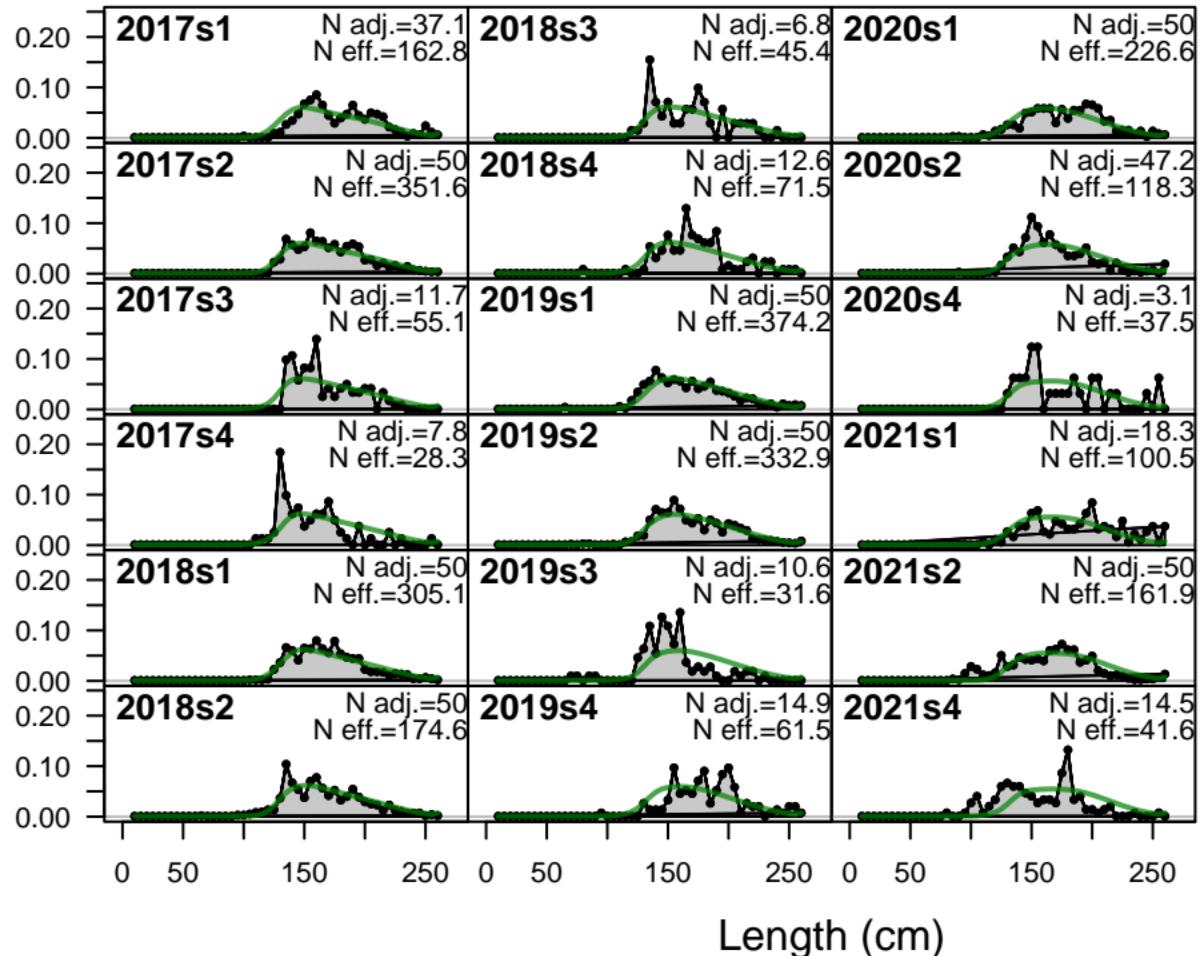
Proportion

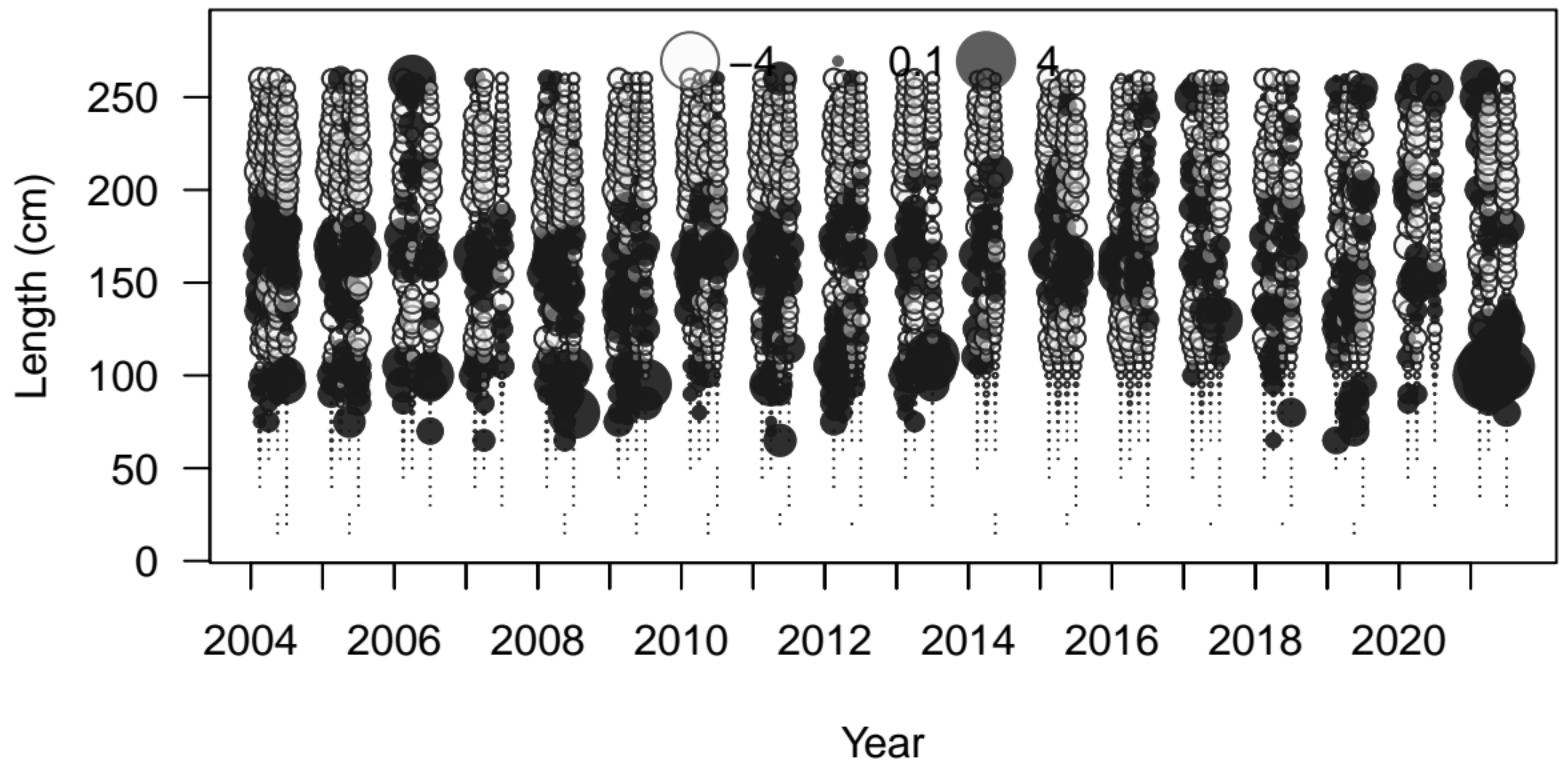


Proportion

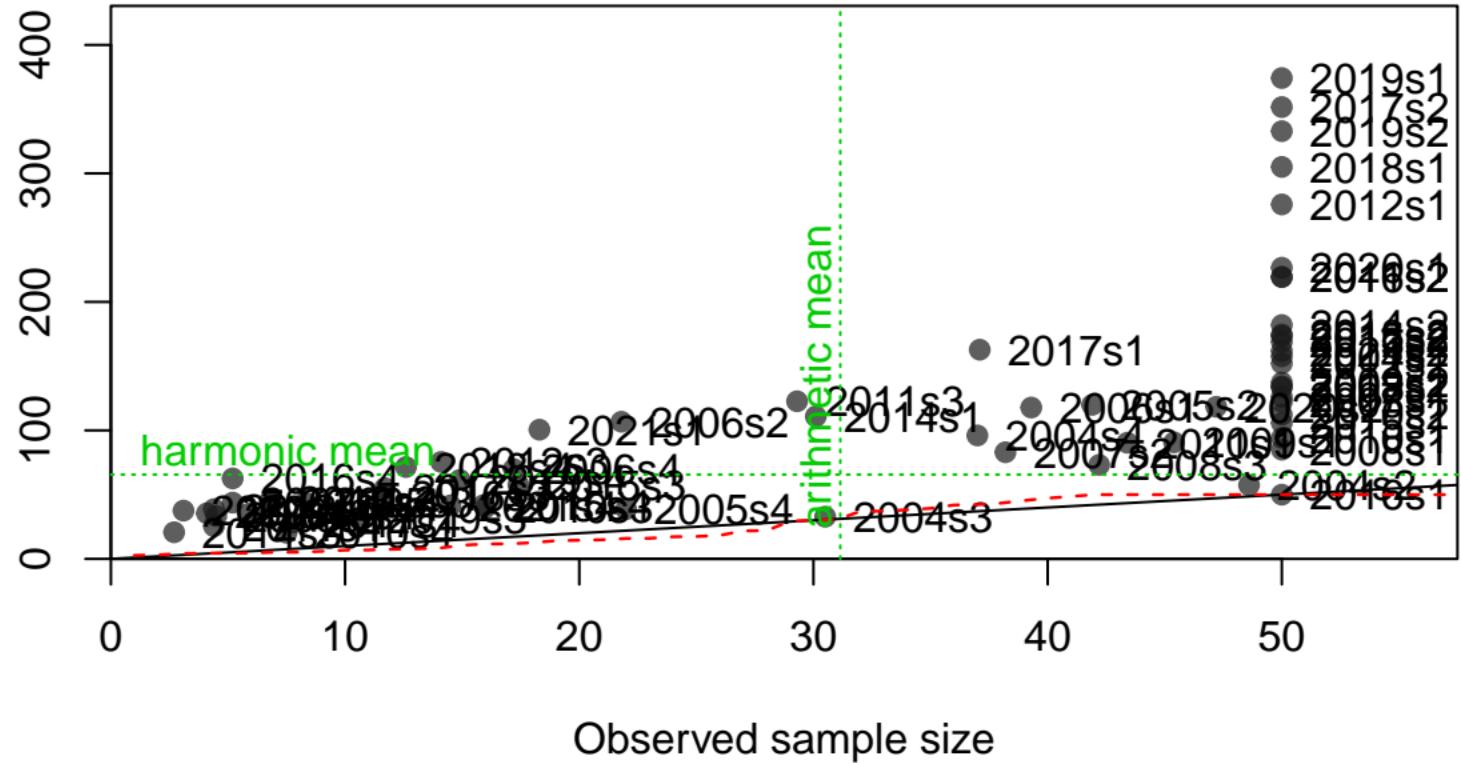


Proportion

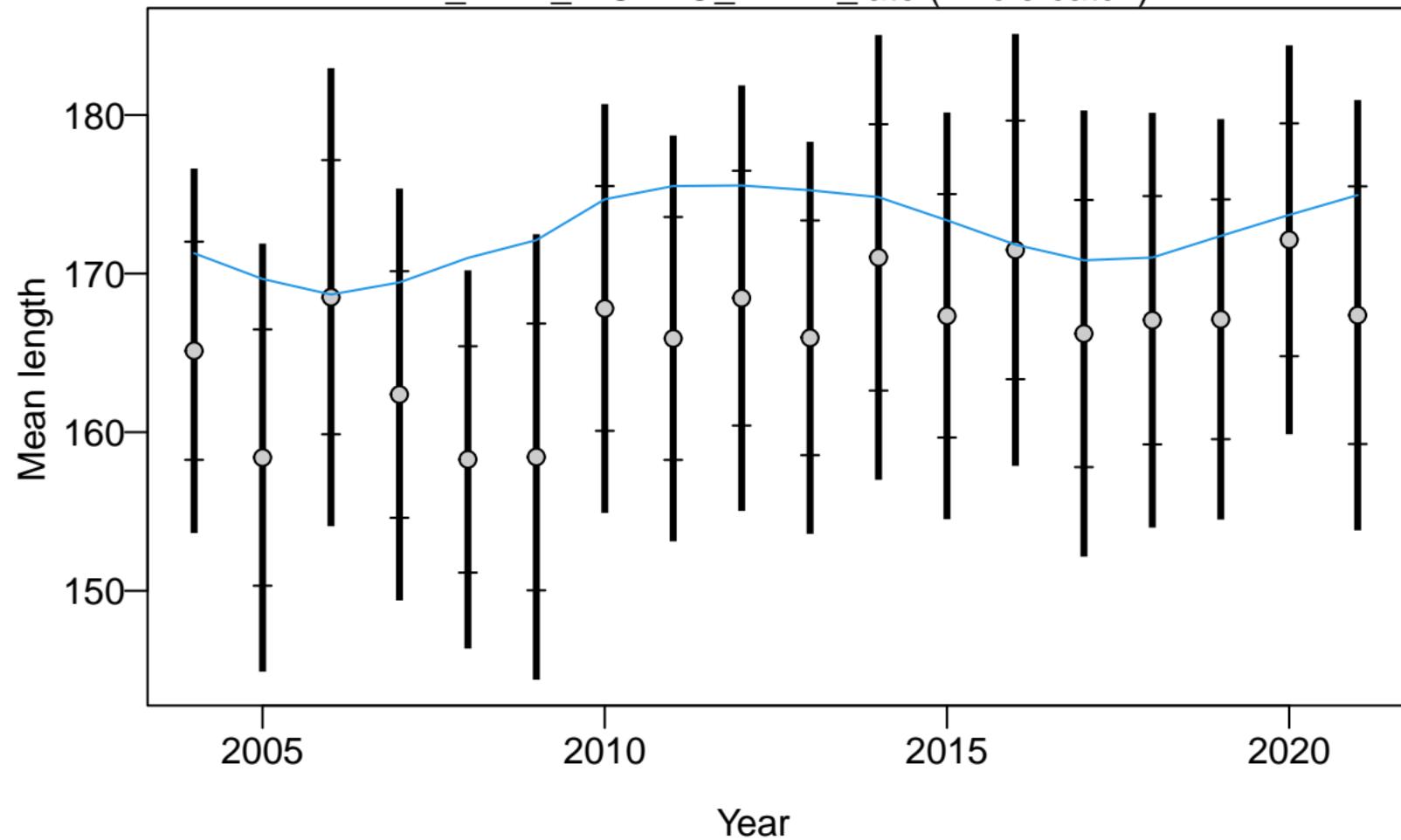




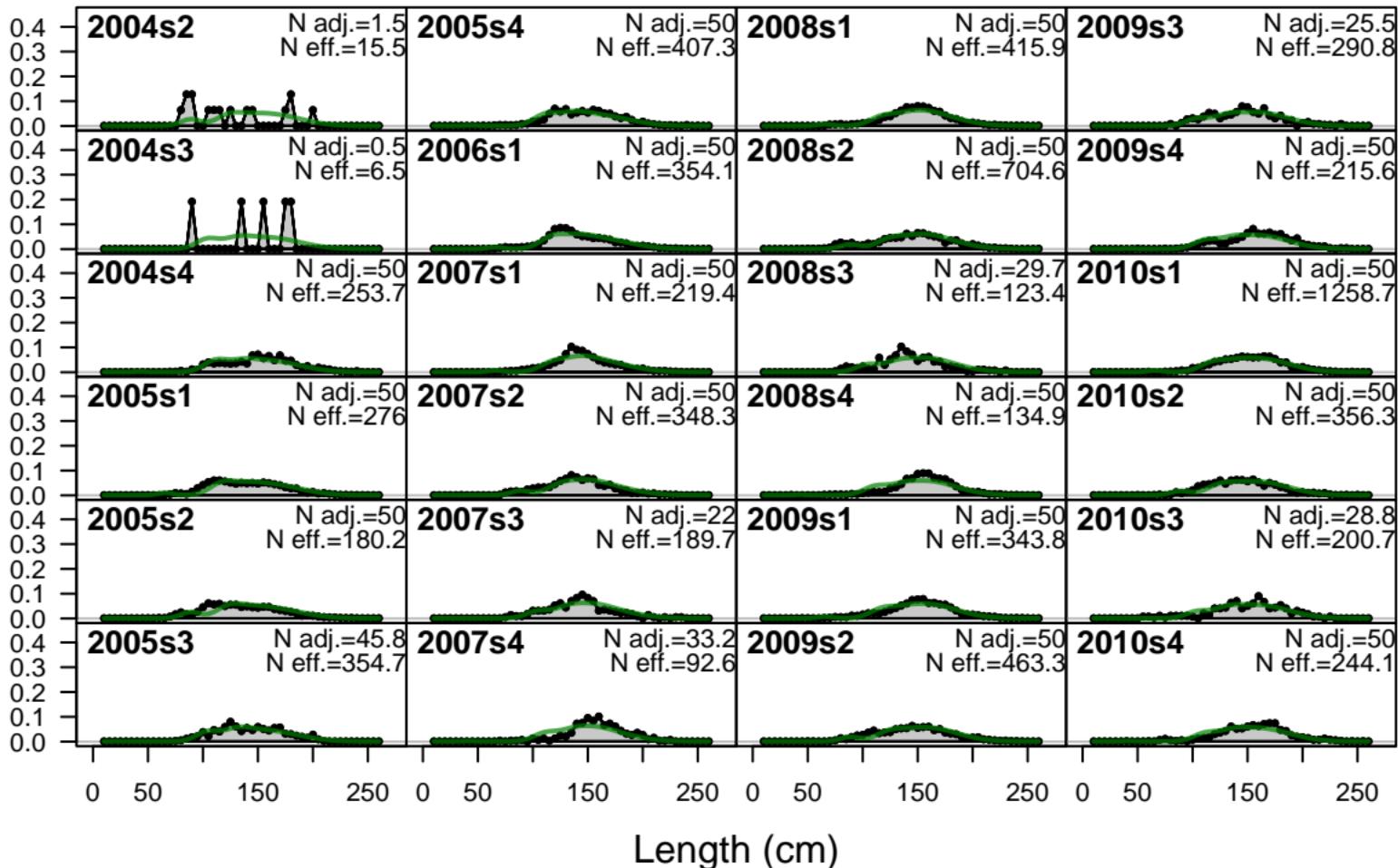
Effective sample size



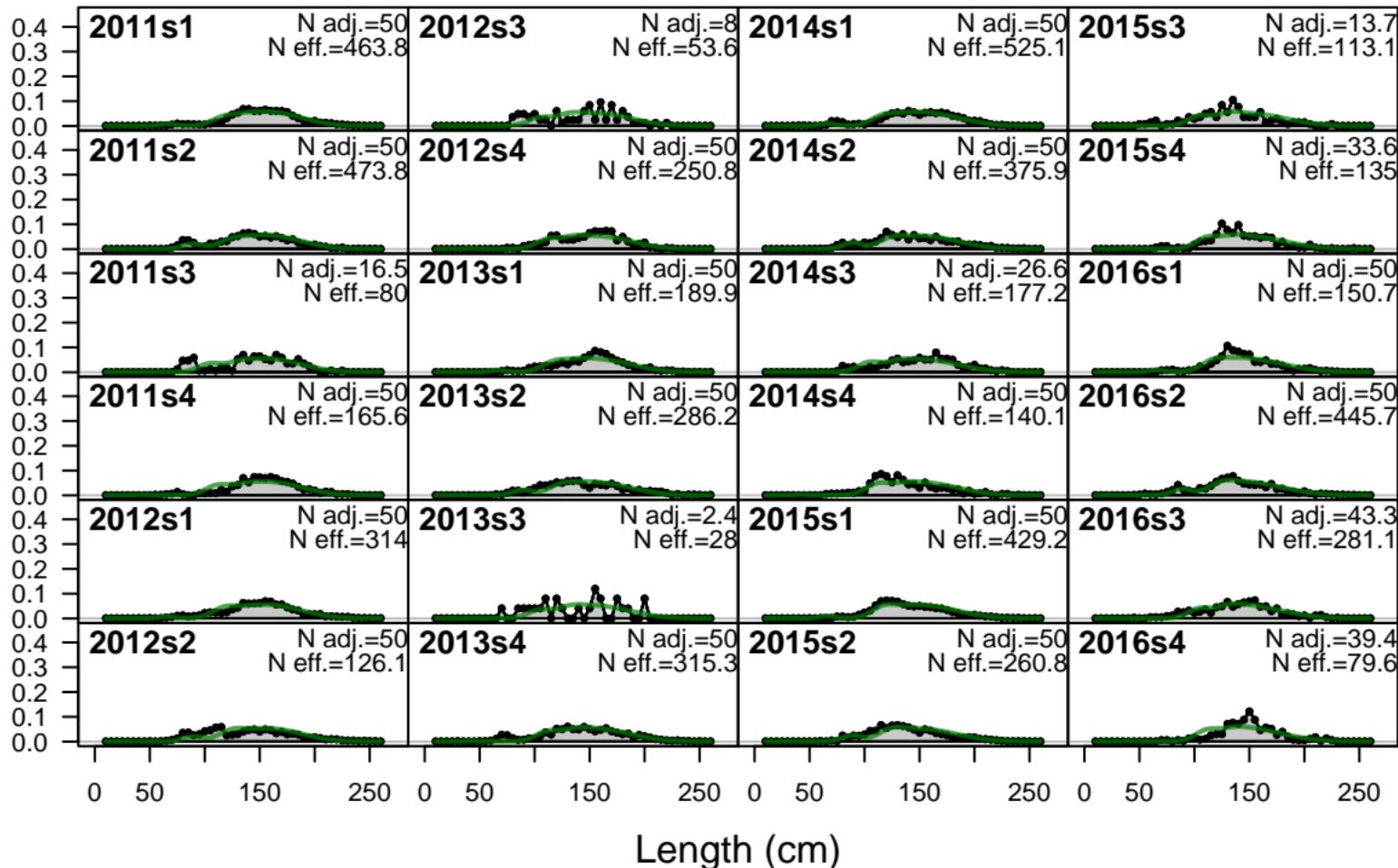
# F2\_TWN\_WCNPO\_DWLL\_late (whole catch)



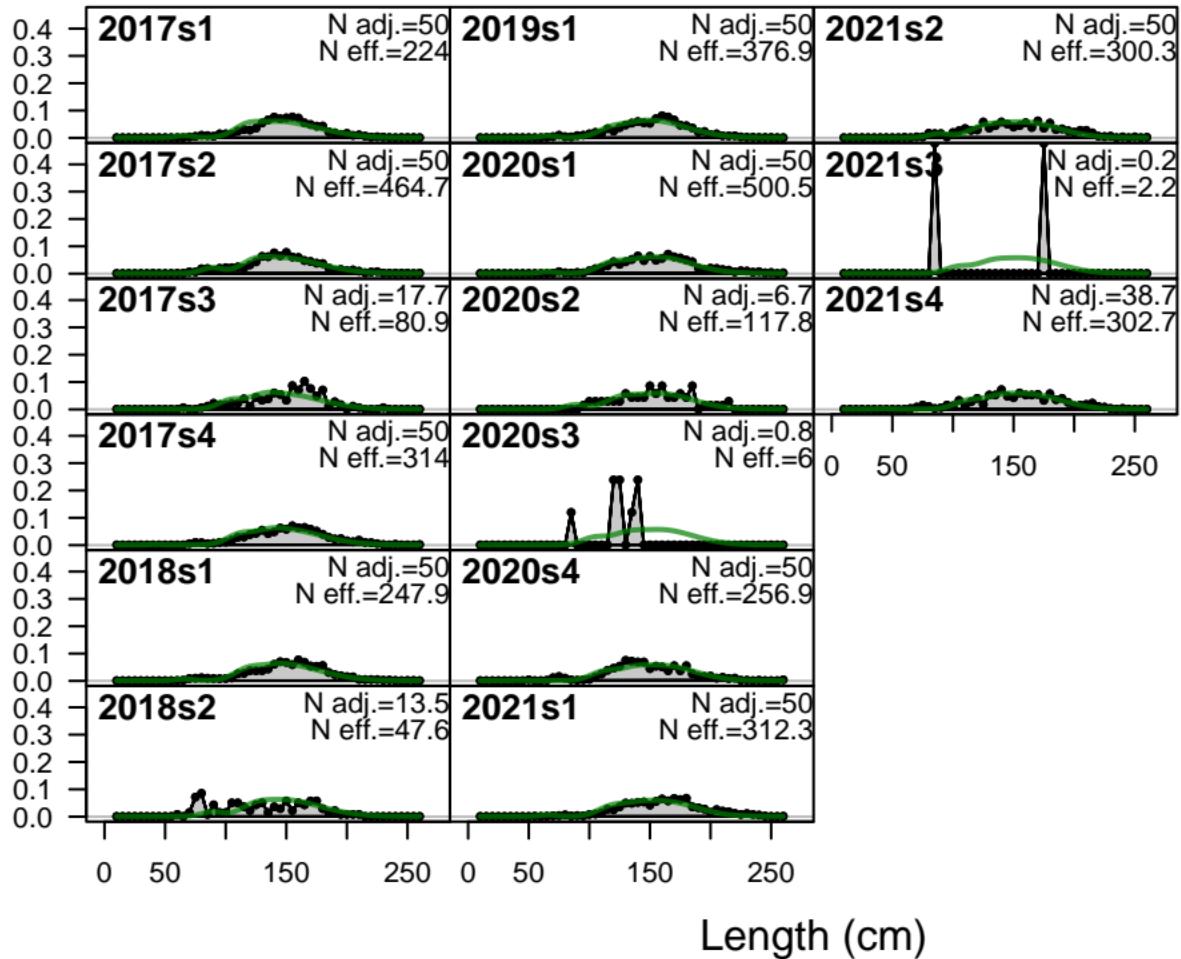
Proportion

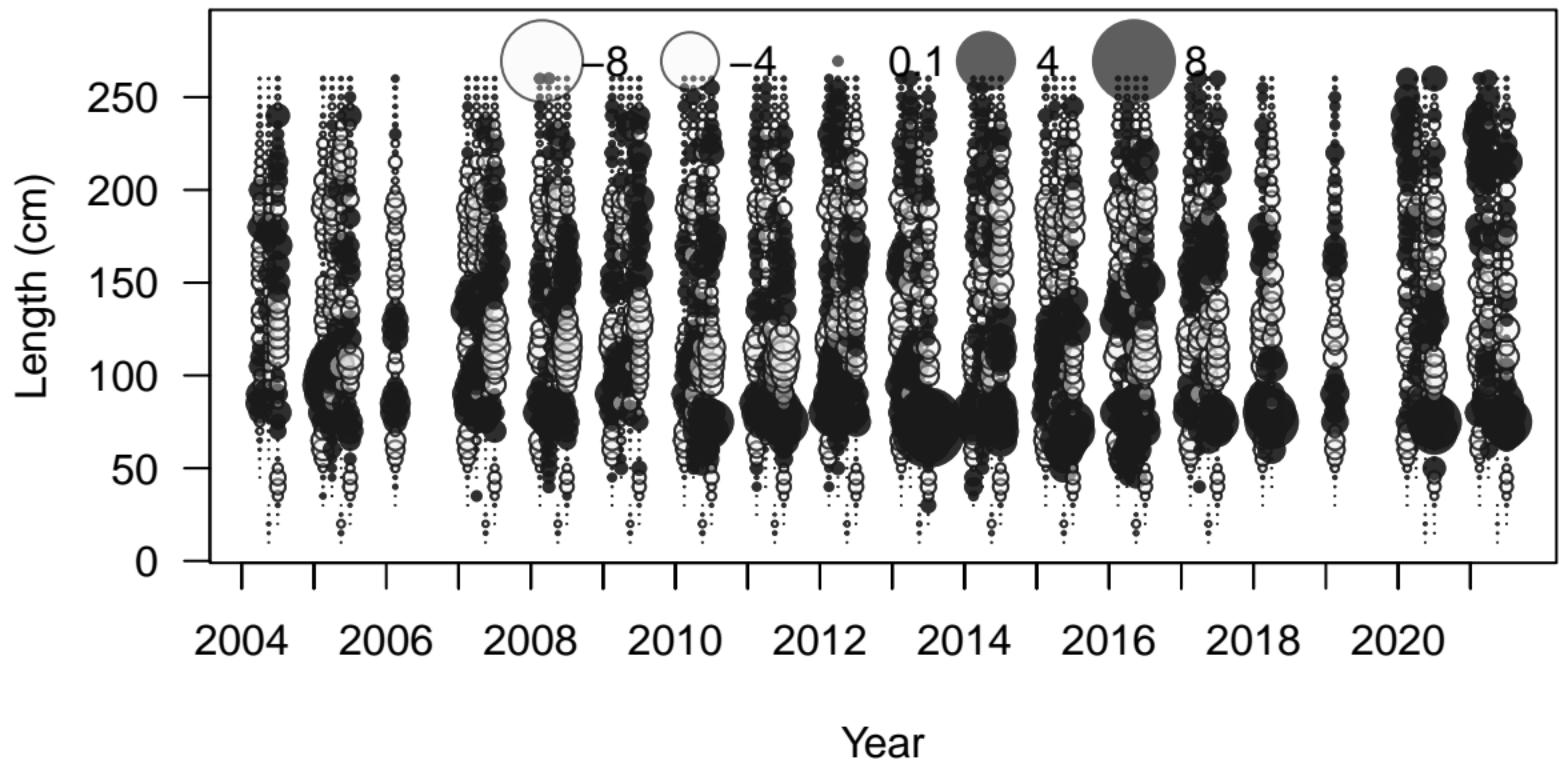


Proportion

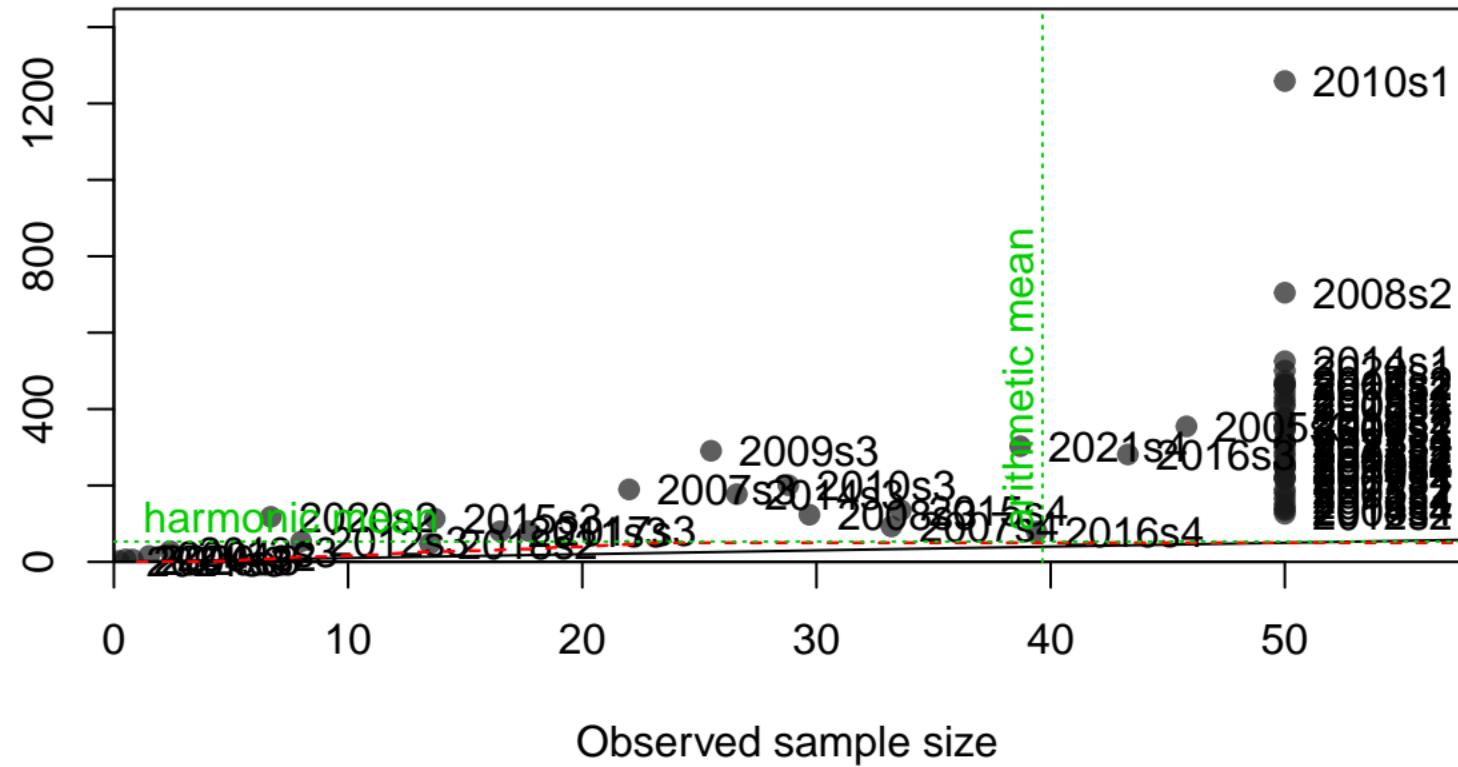


Proportion

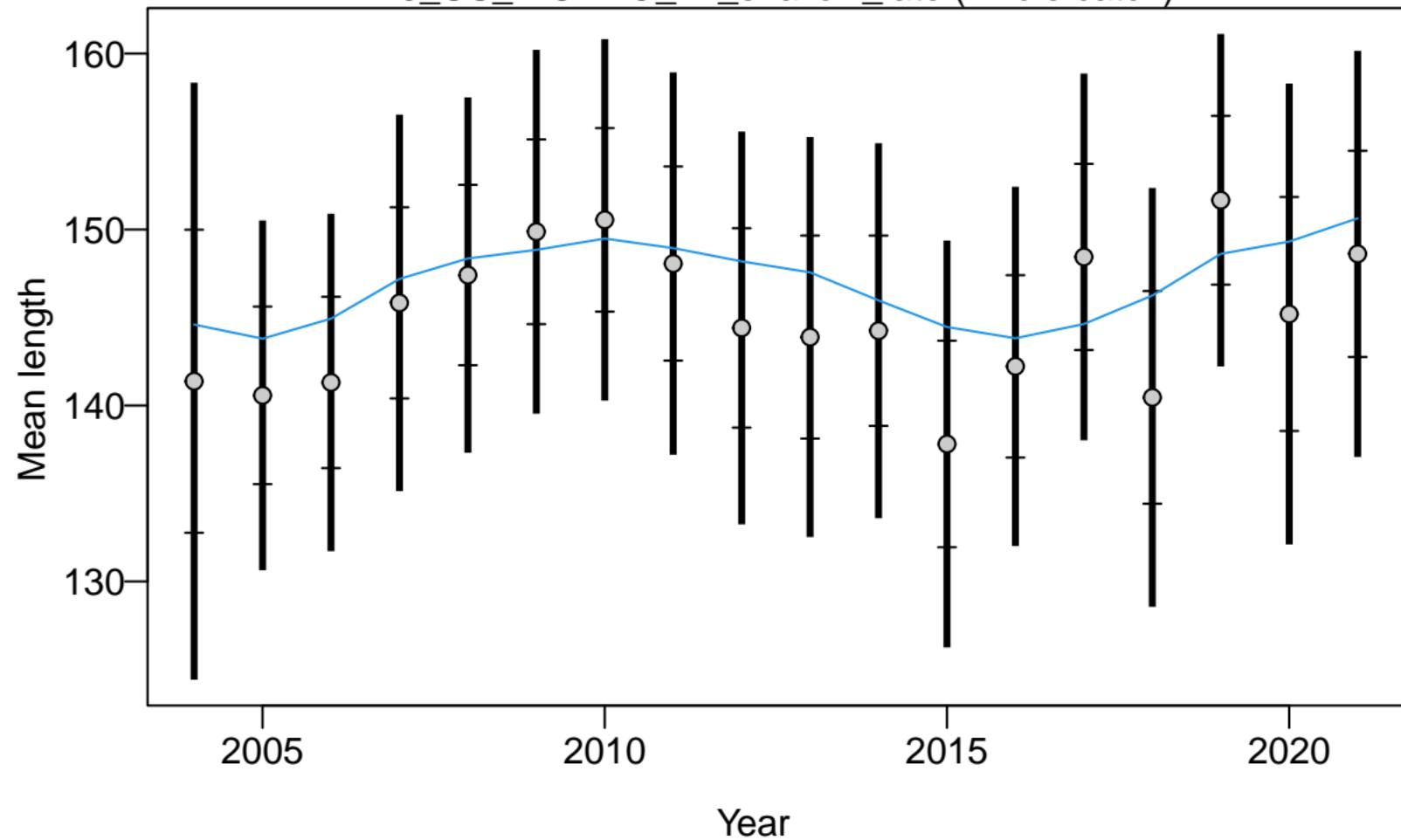




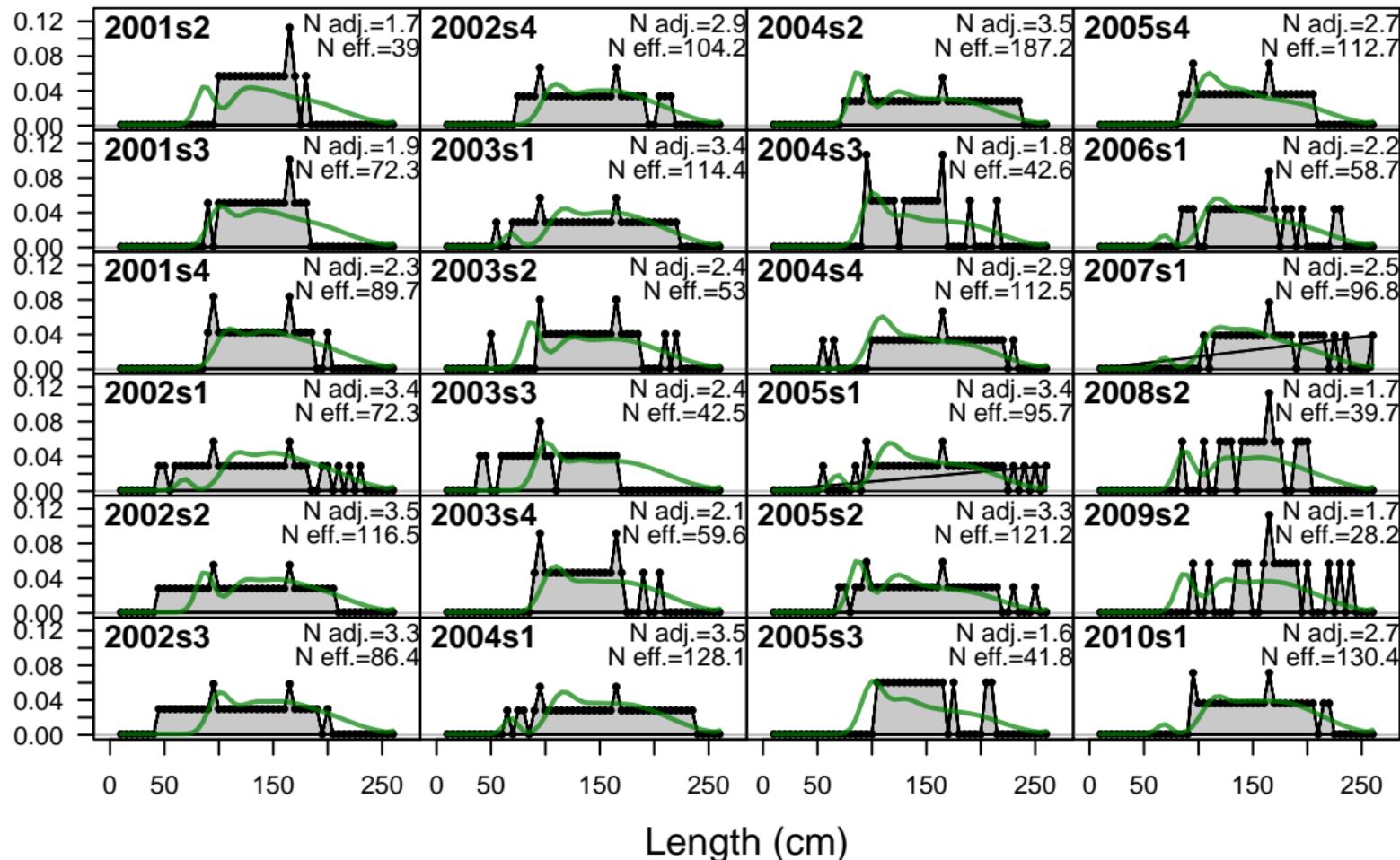
Effective sample size



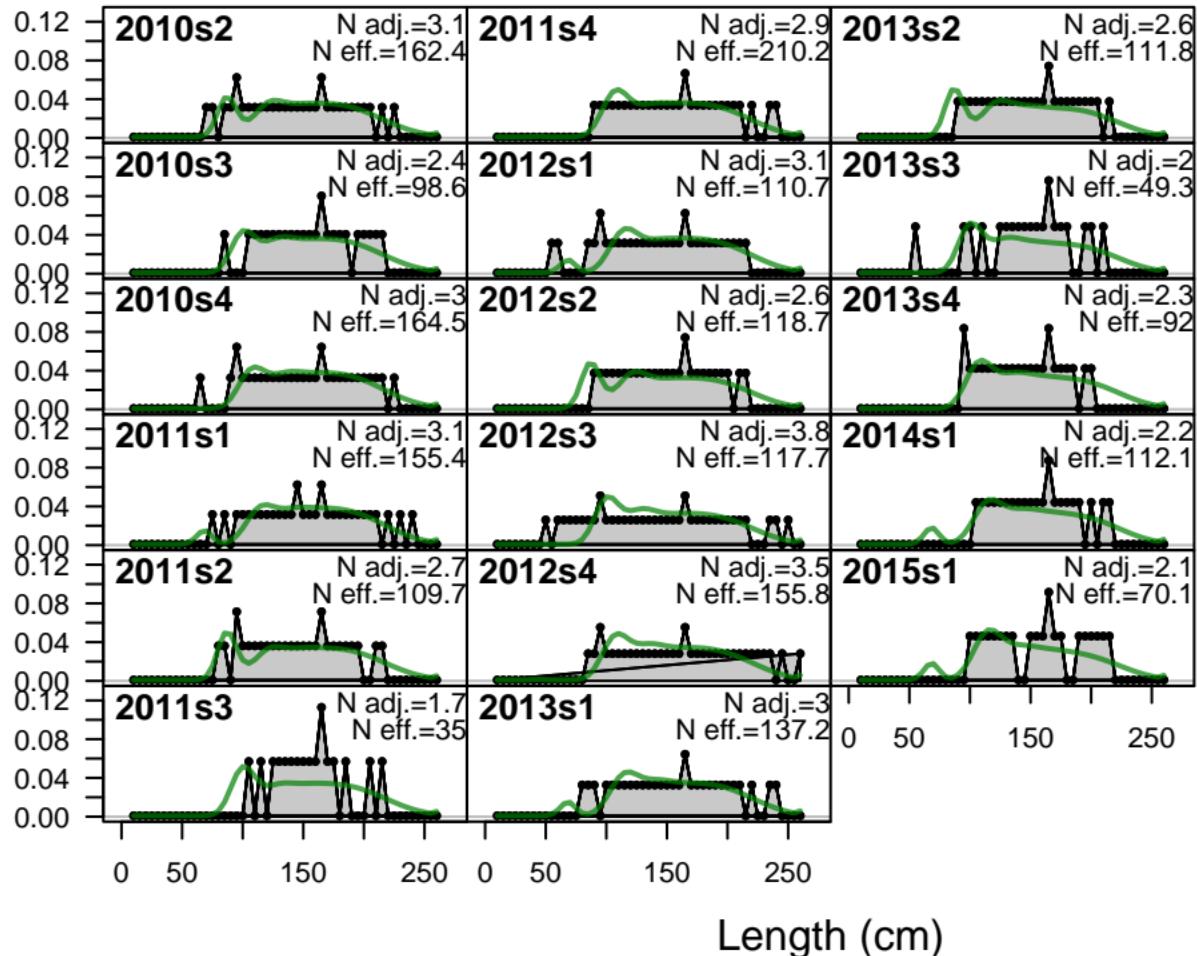
### F3\_US\_WCNPO\_LL\_shallow\_late (whole catch)

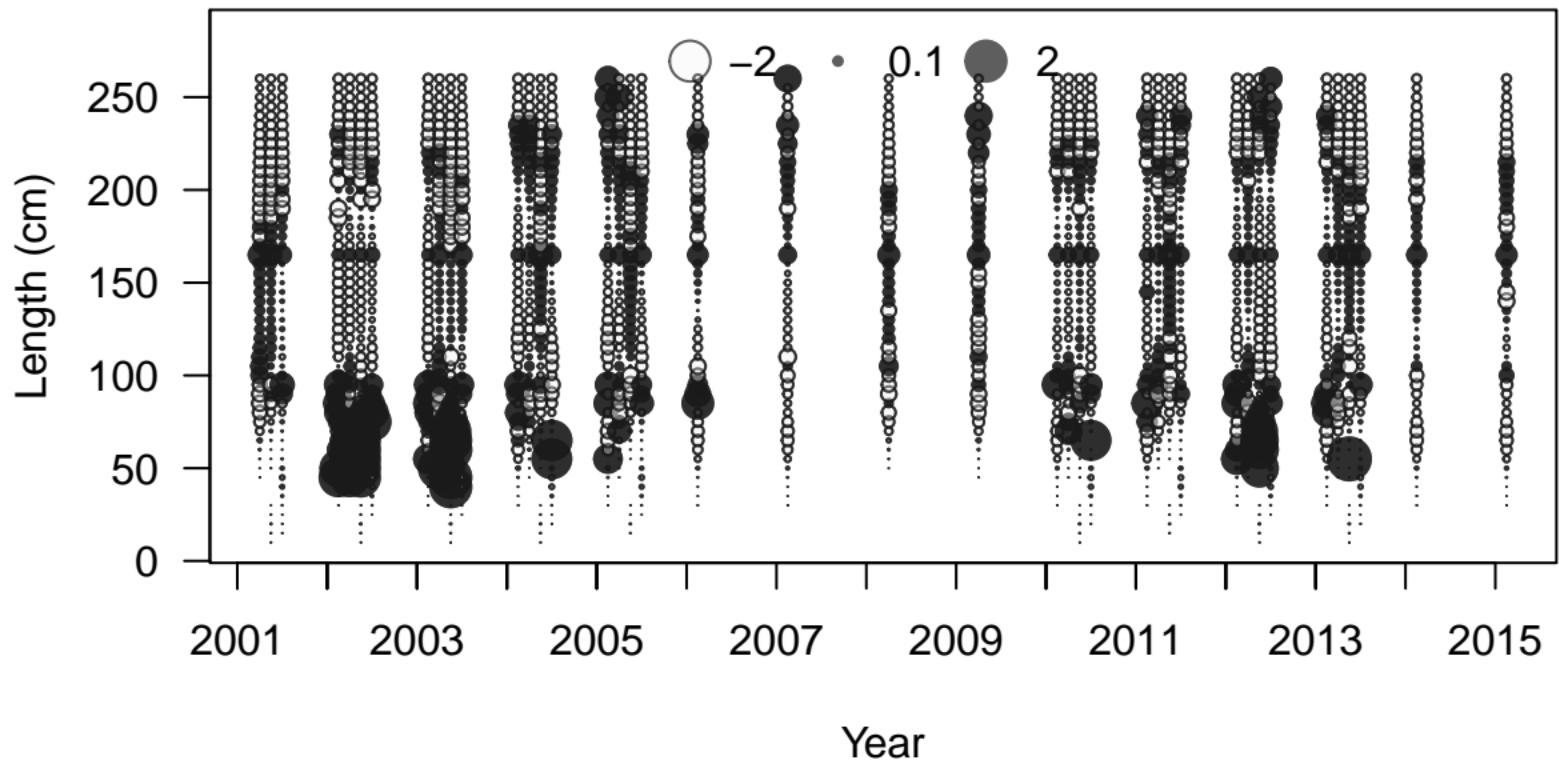


Proportion



Proportion





Effective sample size

200  
150  
100  
50  
0

0

1

2

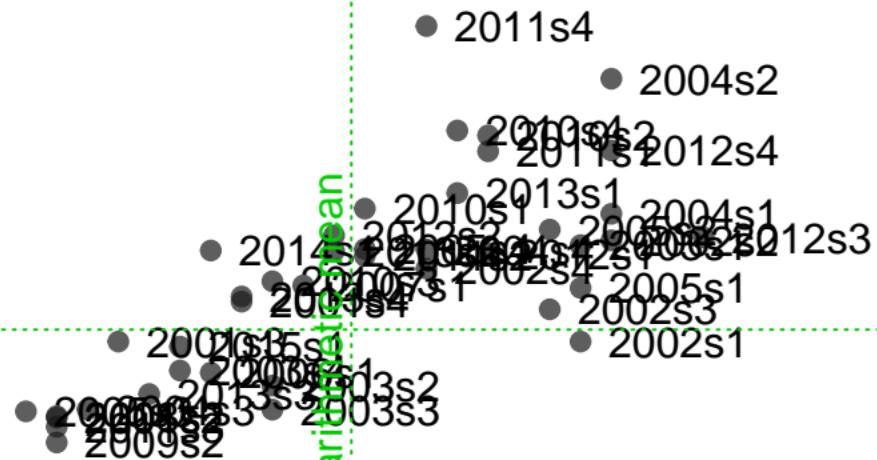
3

4

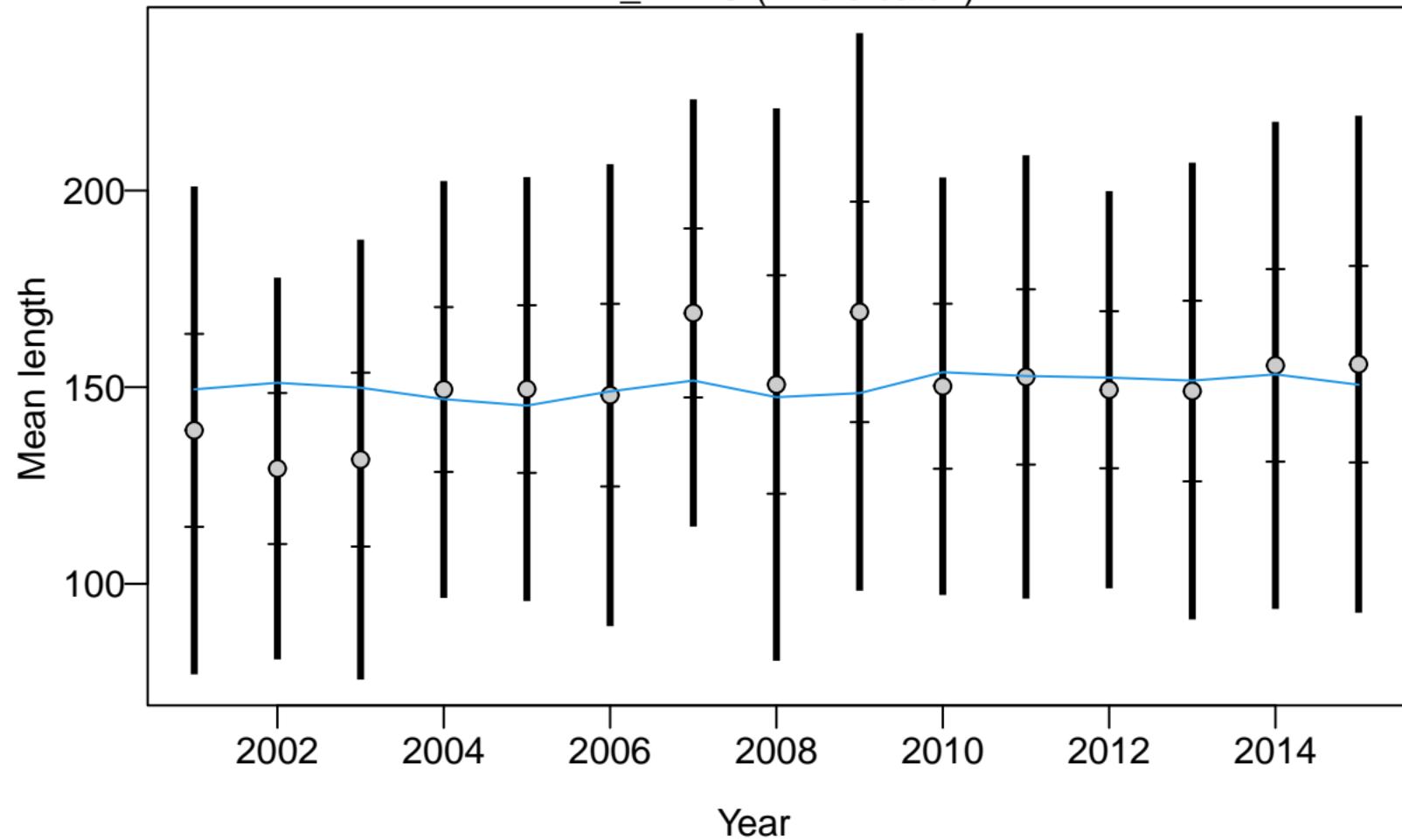
Observed sample size

harmonic mean

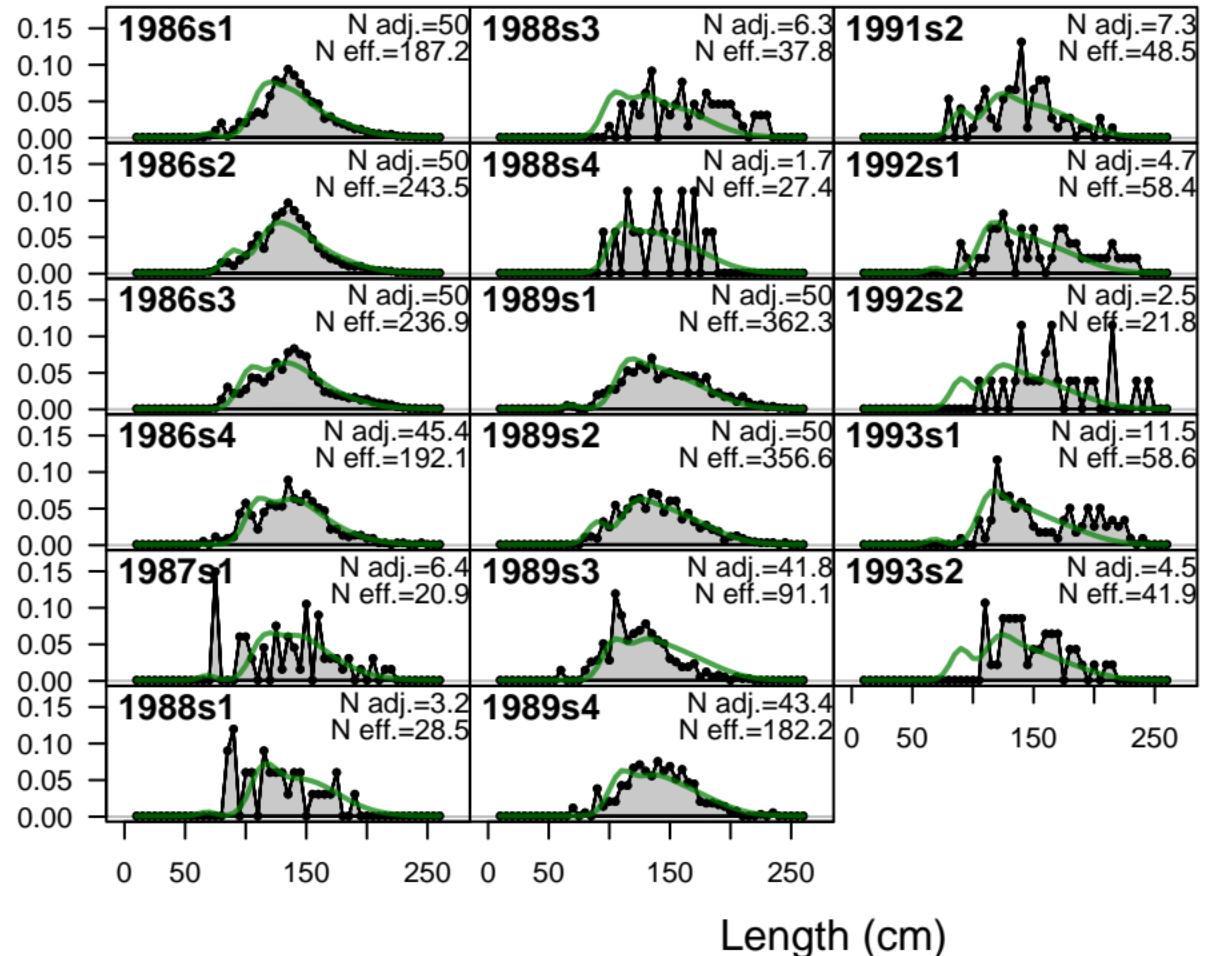
arithmetic mean

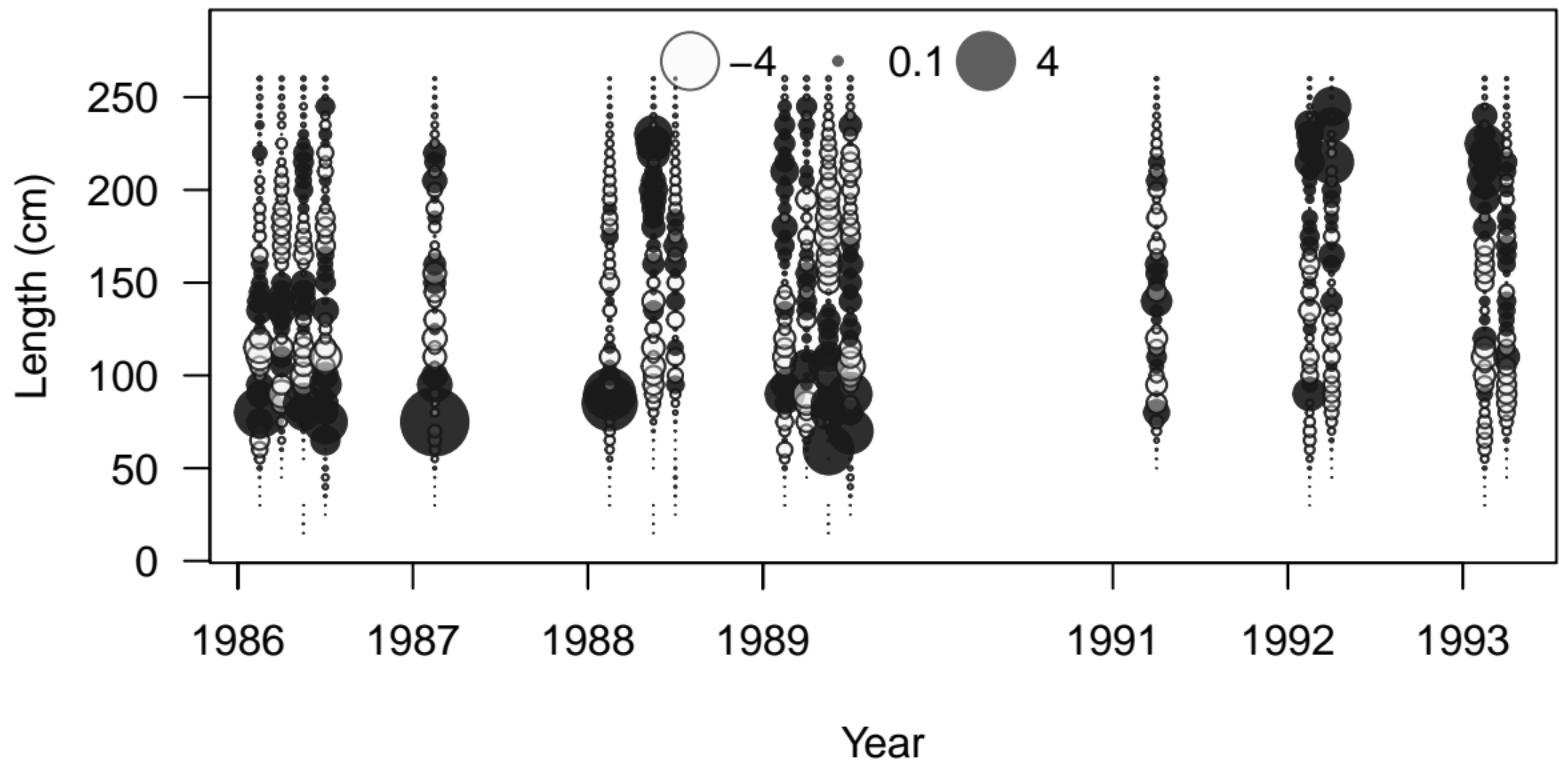


### F4\_IATTC (whole catch)

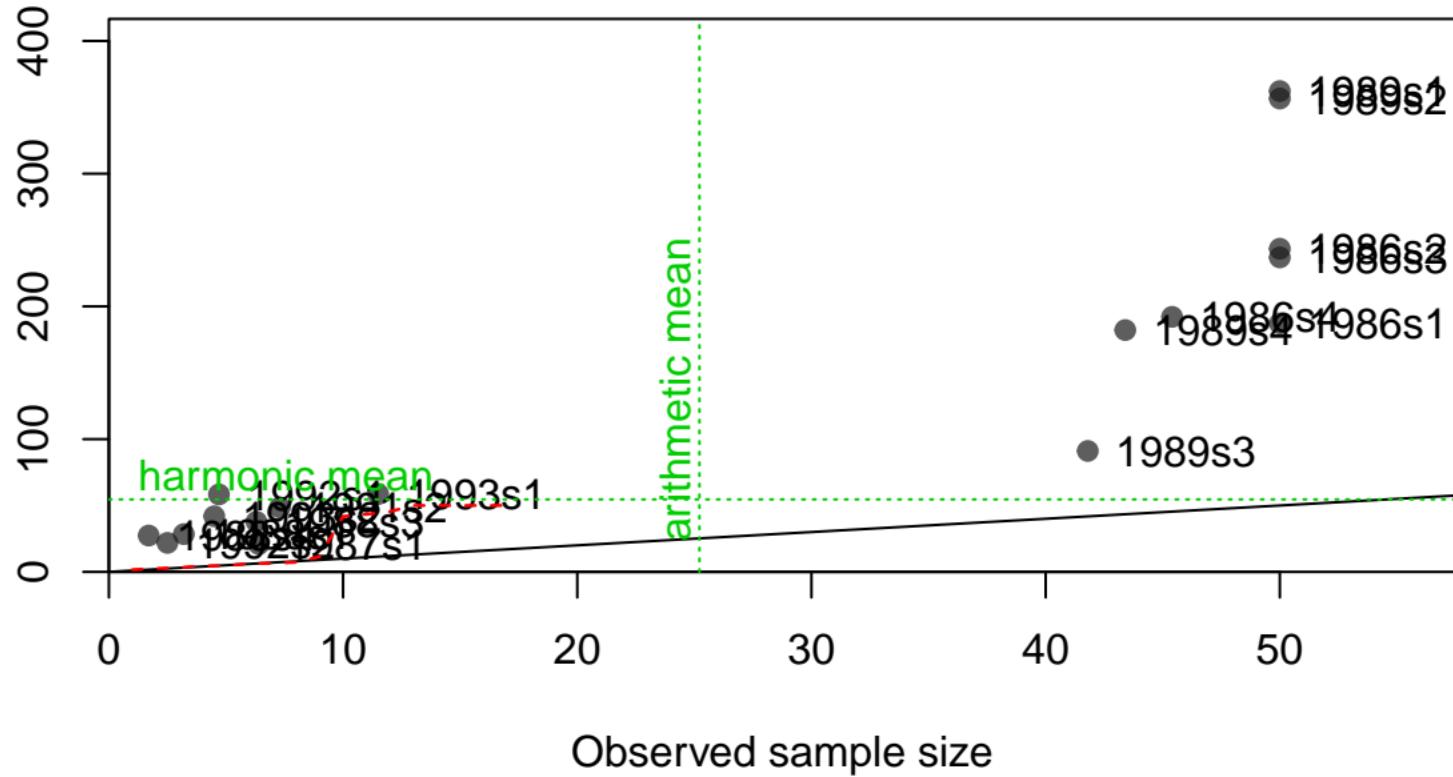


Proportion

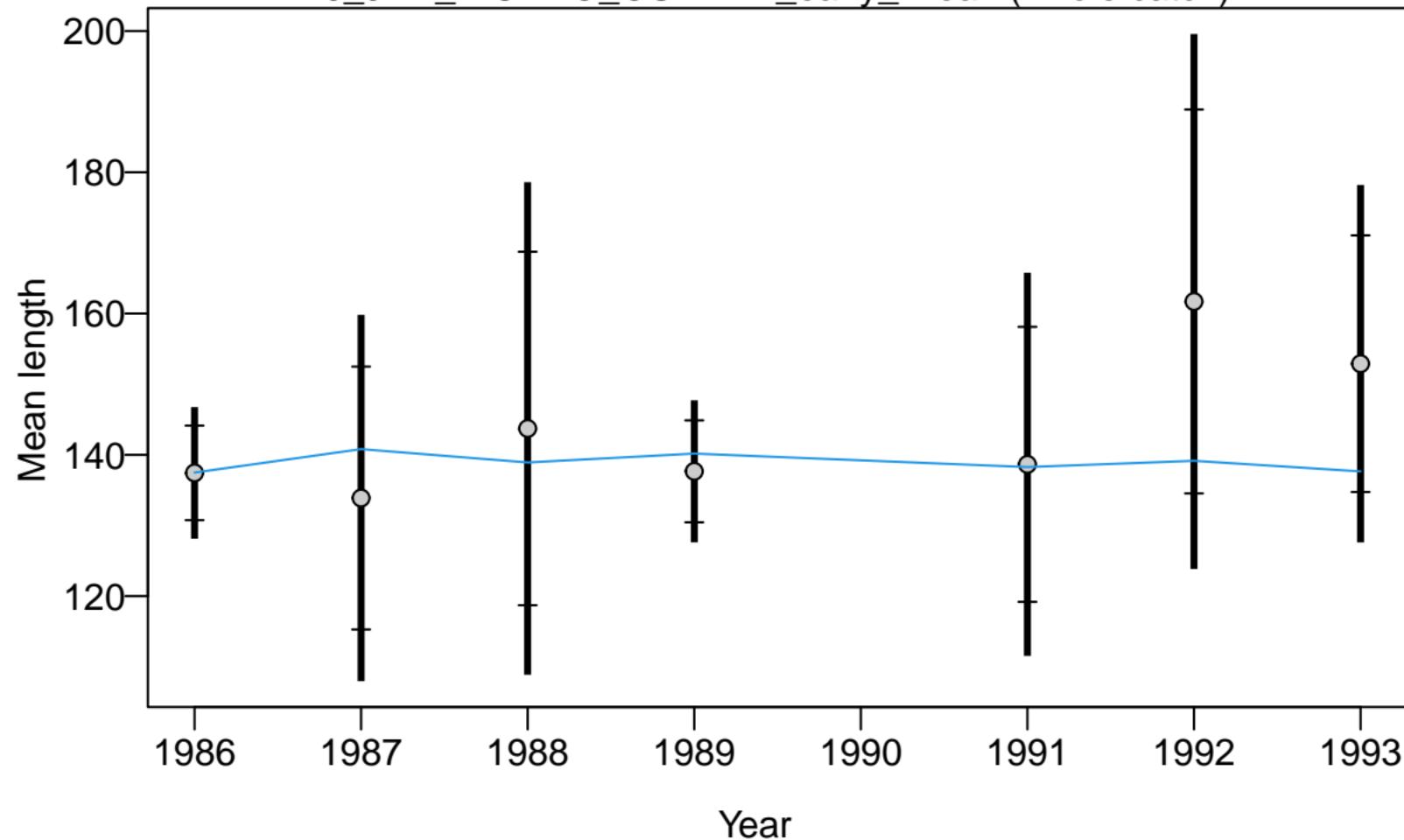




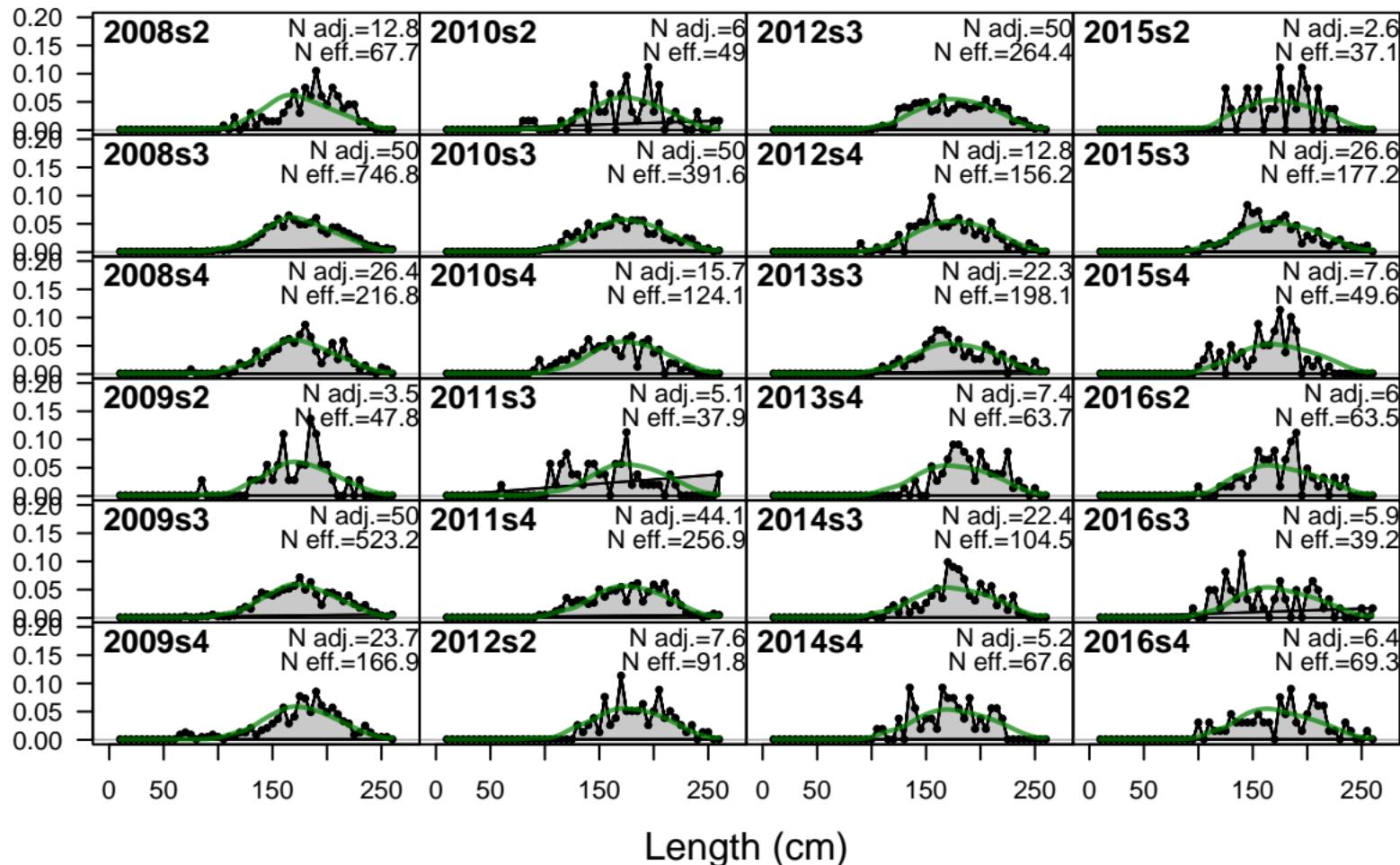
Effective sample size



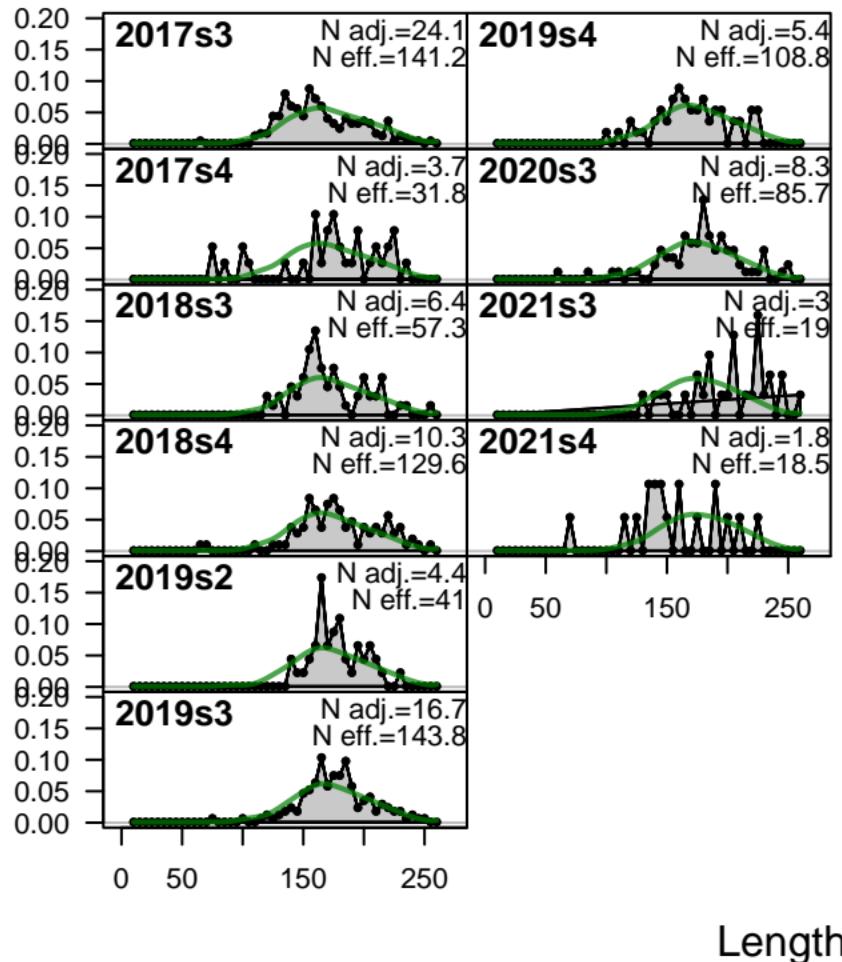
F6\_JPN\_WCNPO OSDWLL\_early\_Area1 (whole catch)

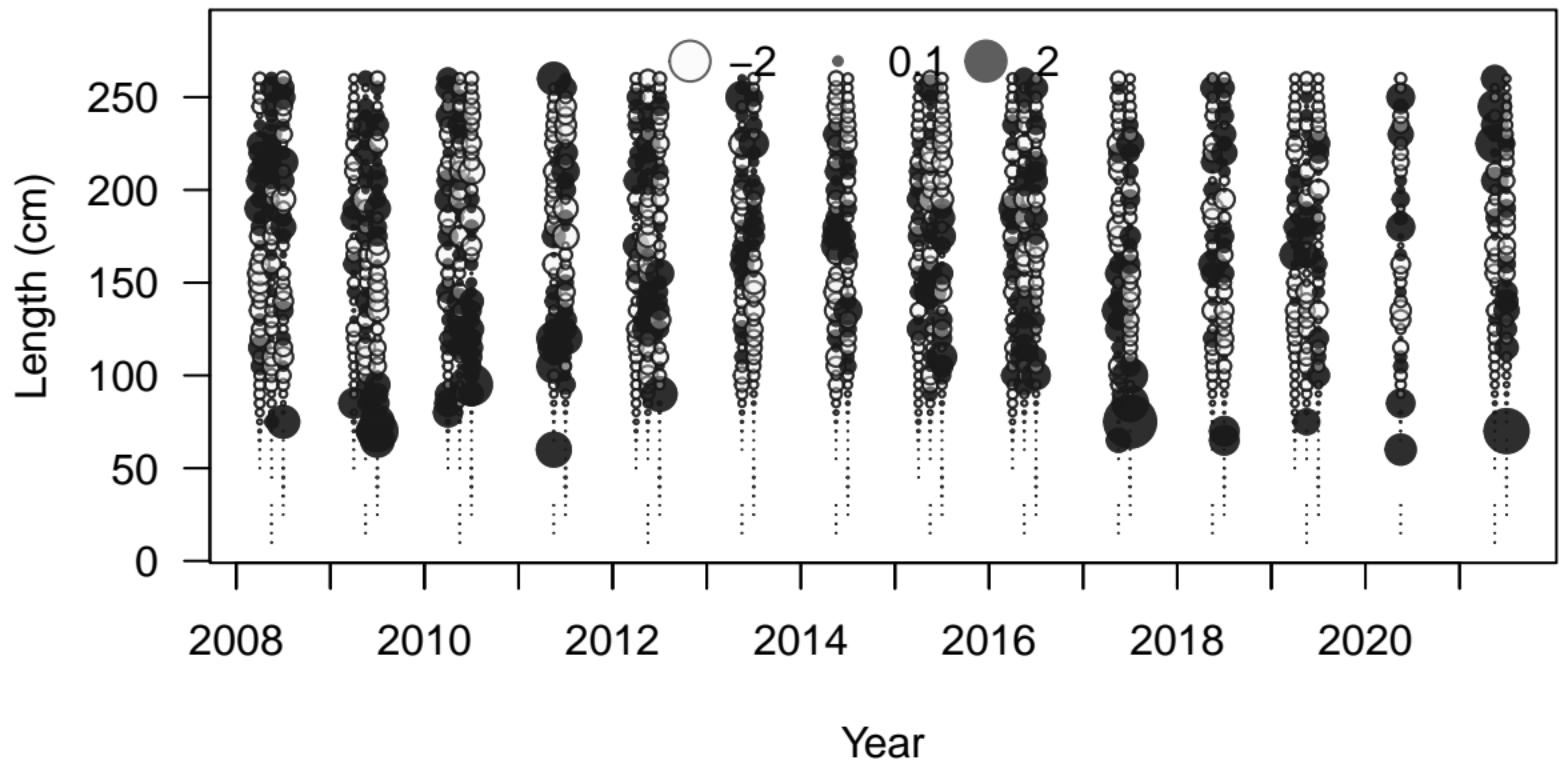


Proportion

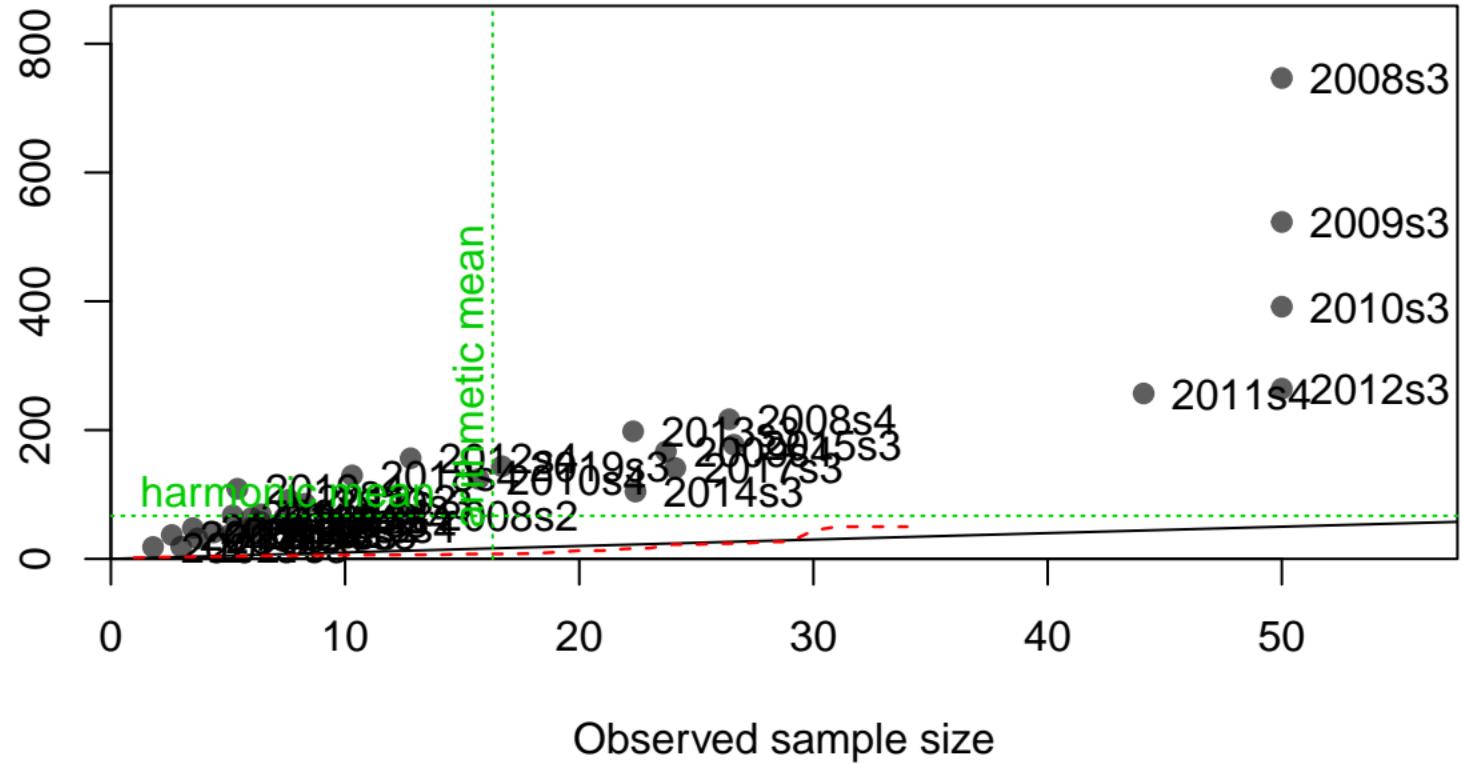


Proportion

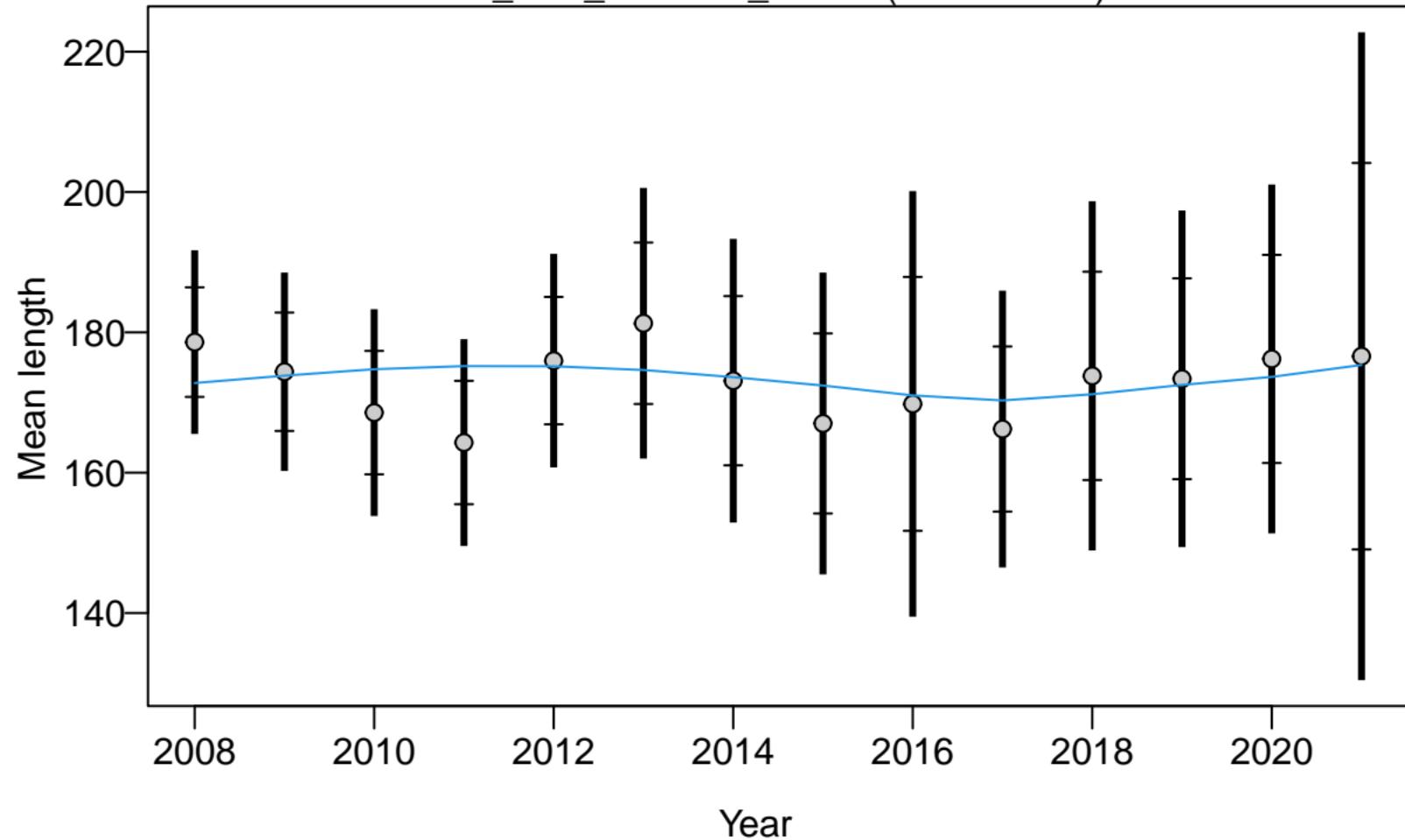




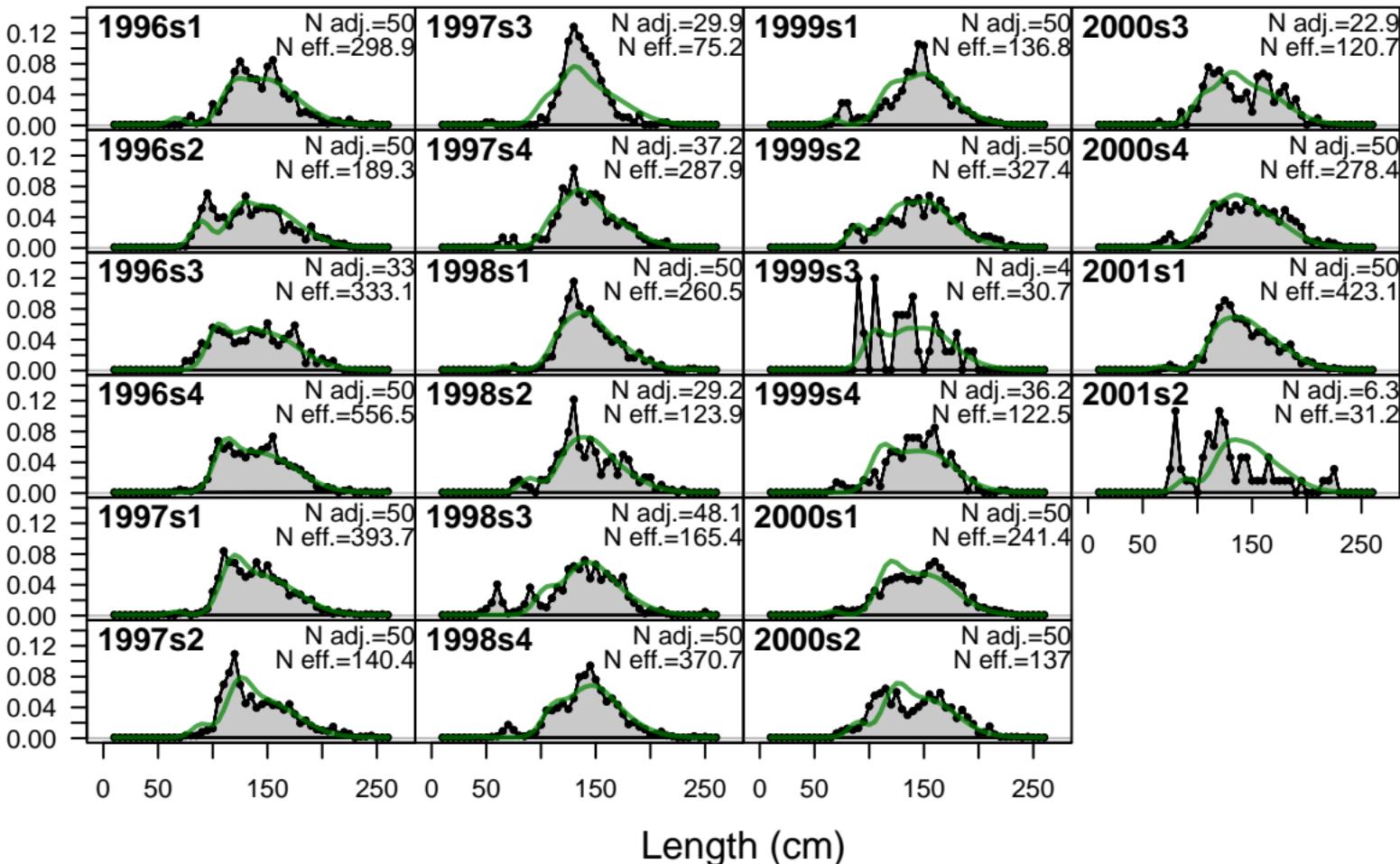
Effective sample size

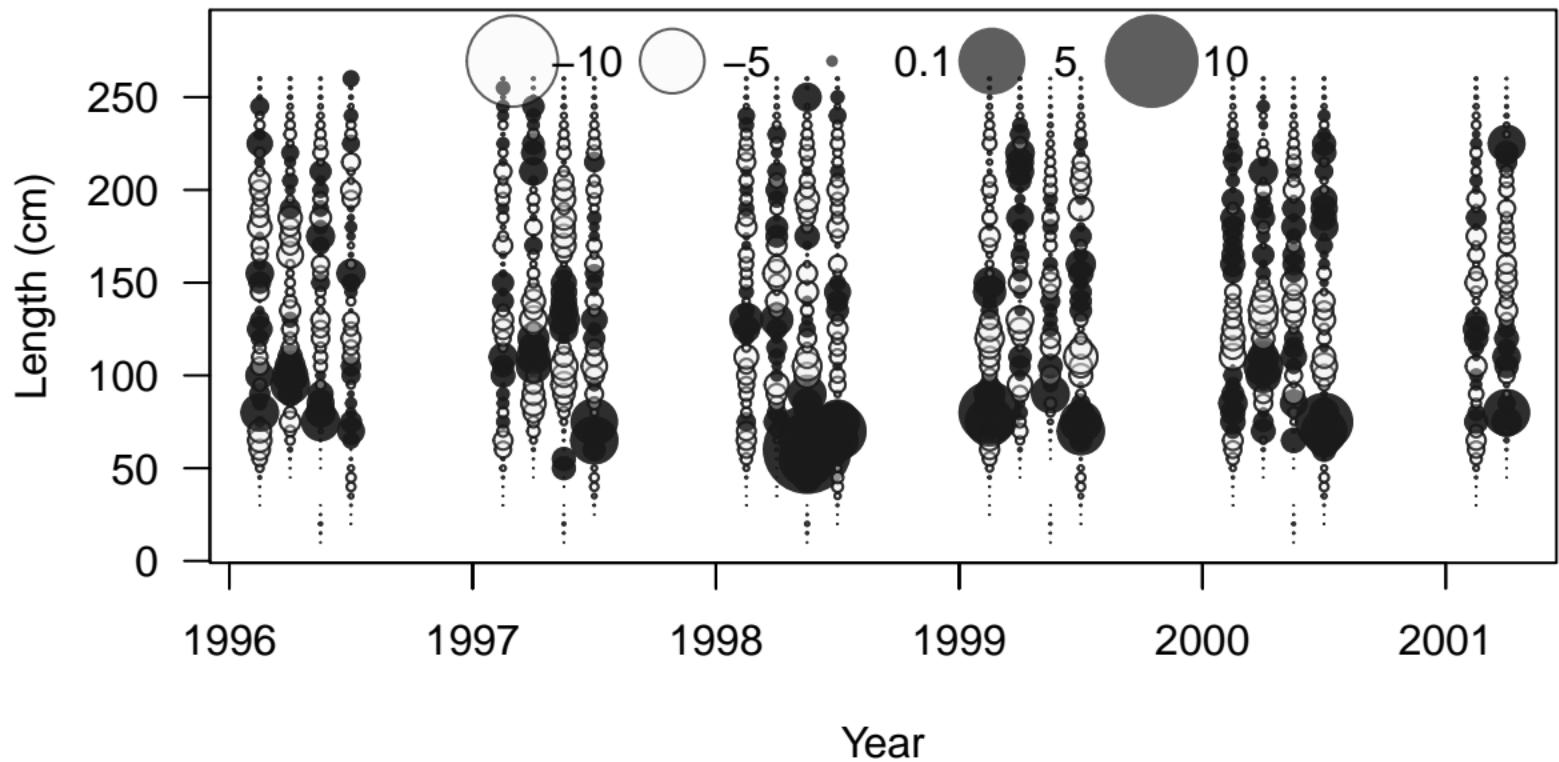


# F7\_JPN\_WCNPO\_CODF (whole catch)

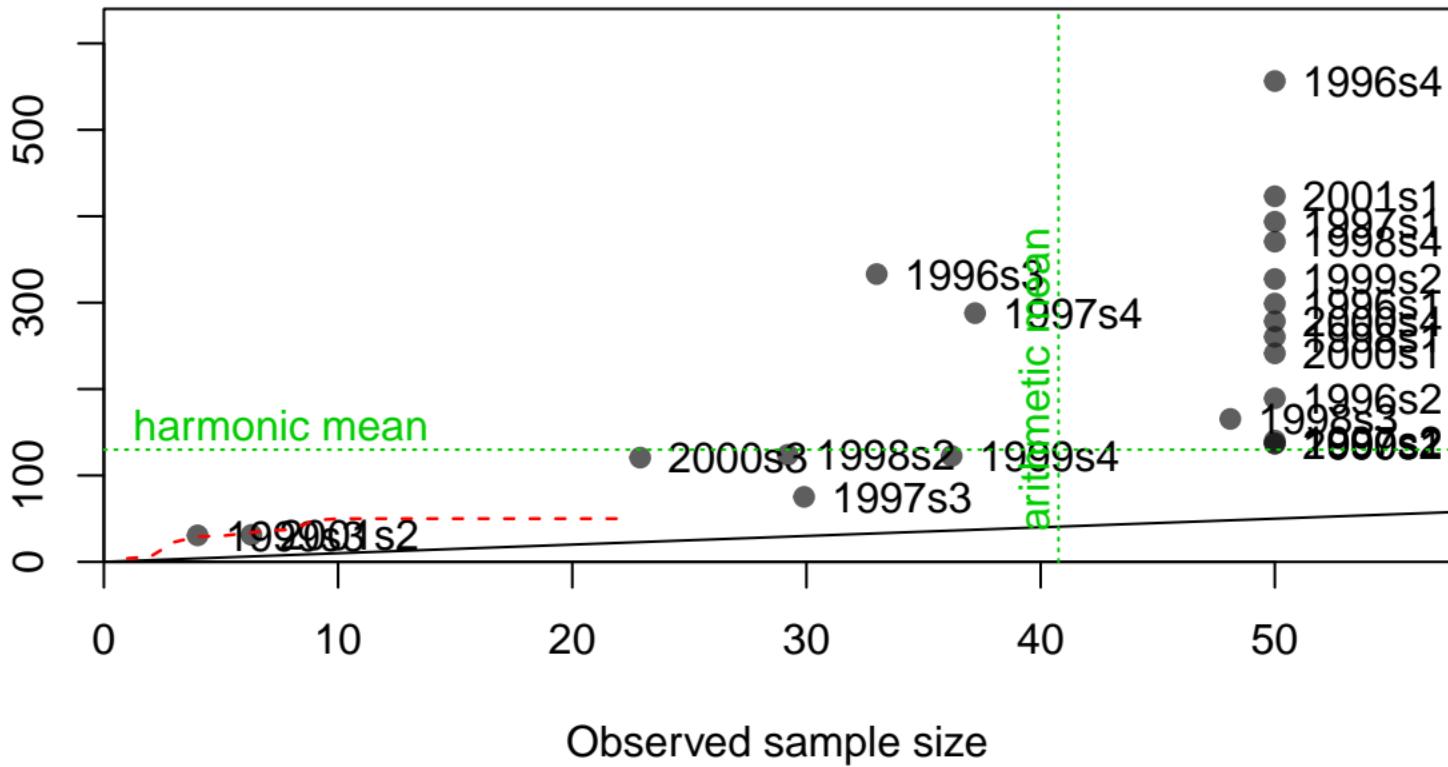


Proportion

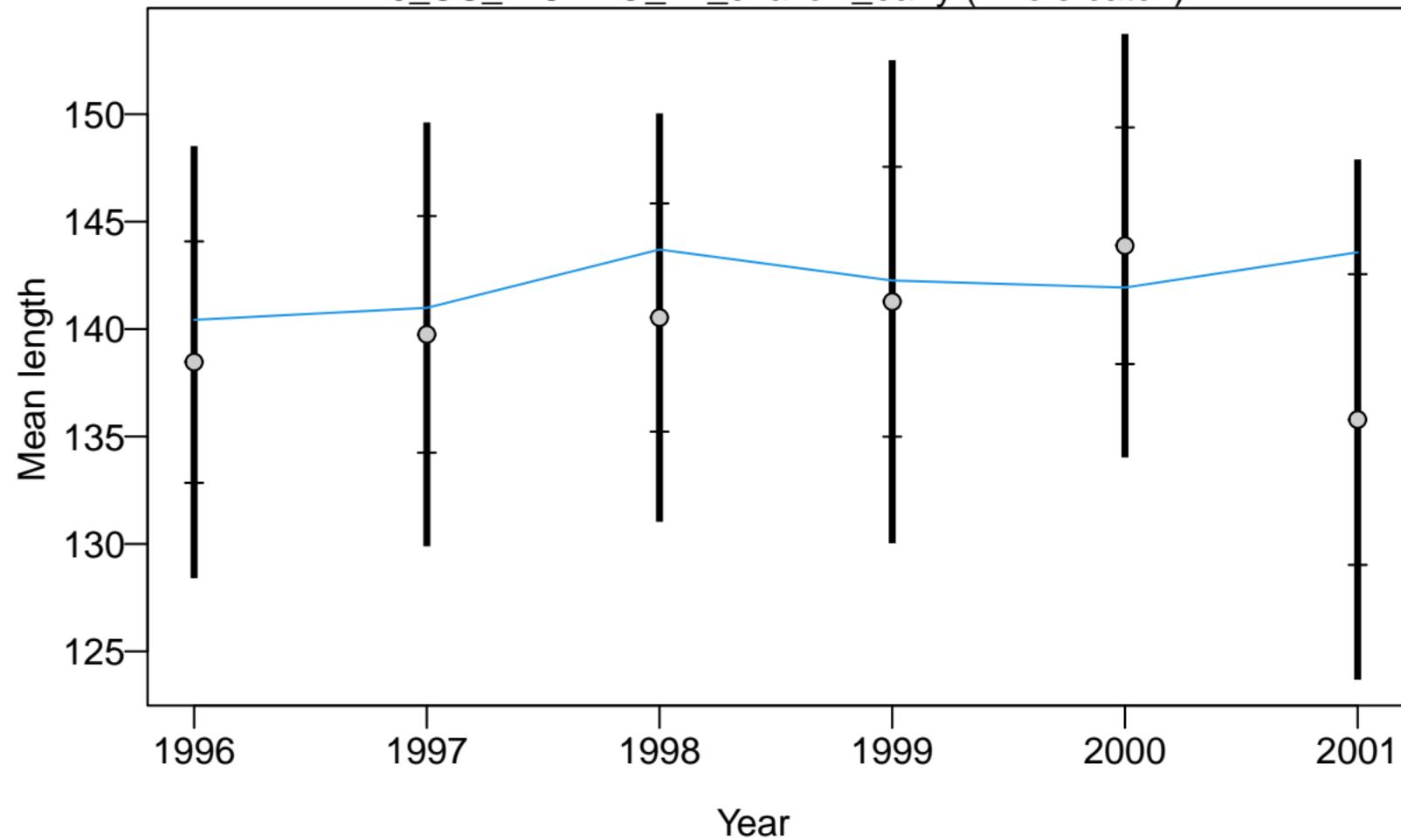




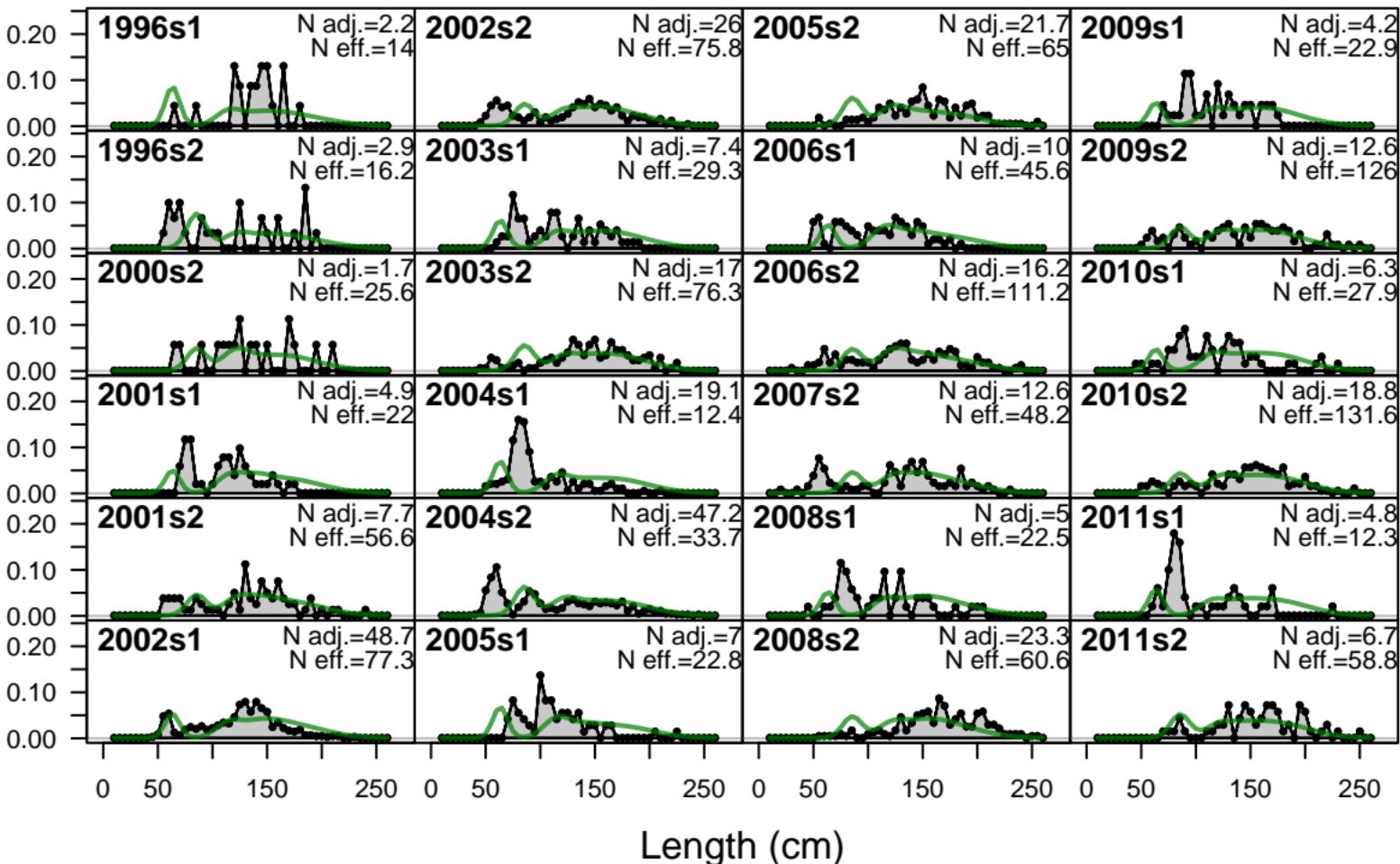
Effective sample size



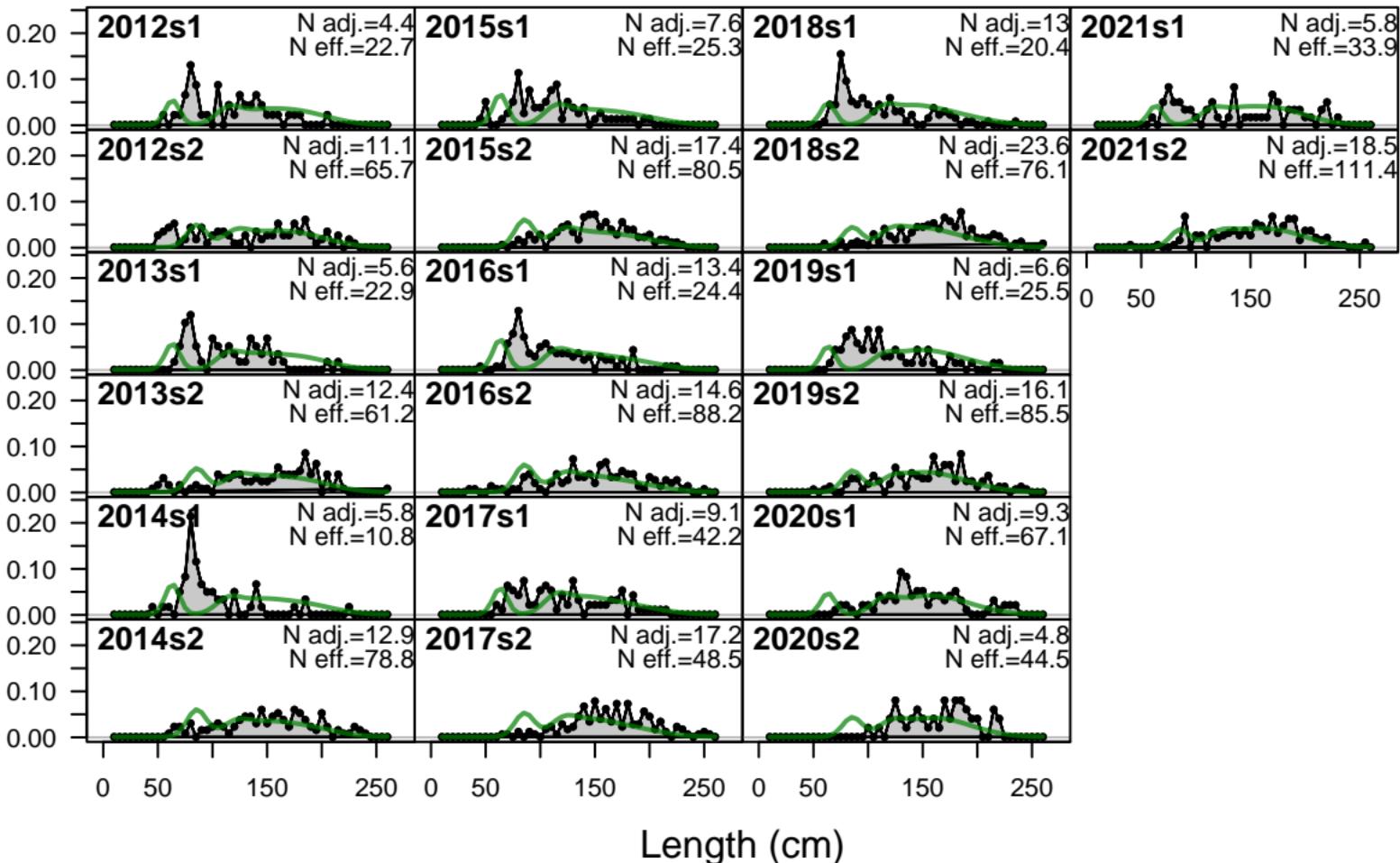
# F8\_US\_WCNPO\_LL\_shallow\_early (whole catch)

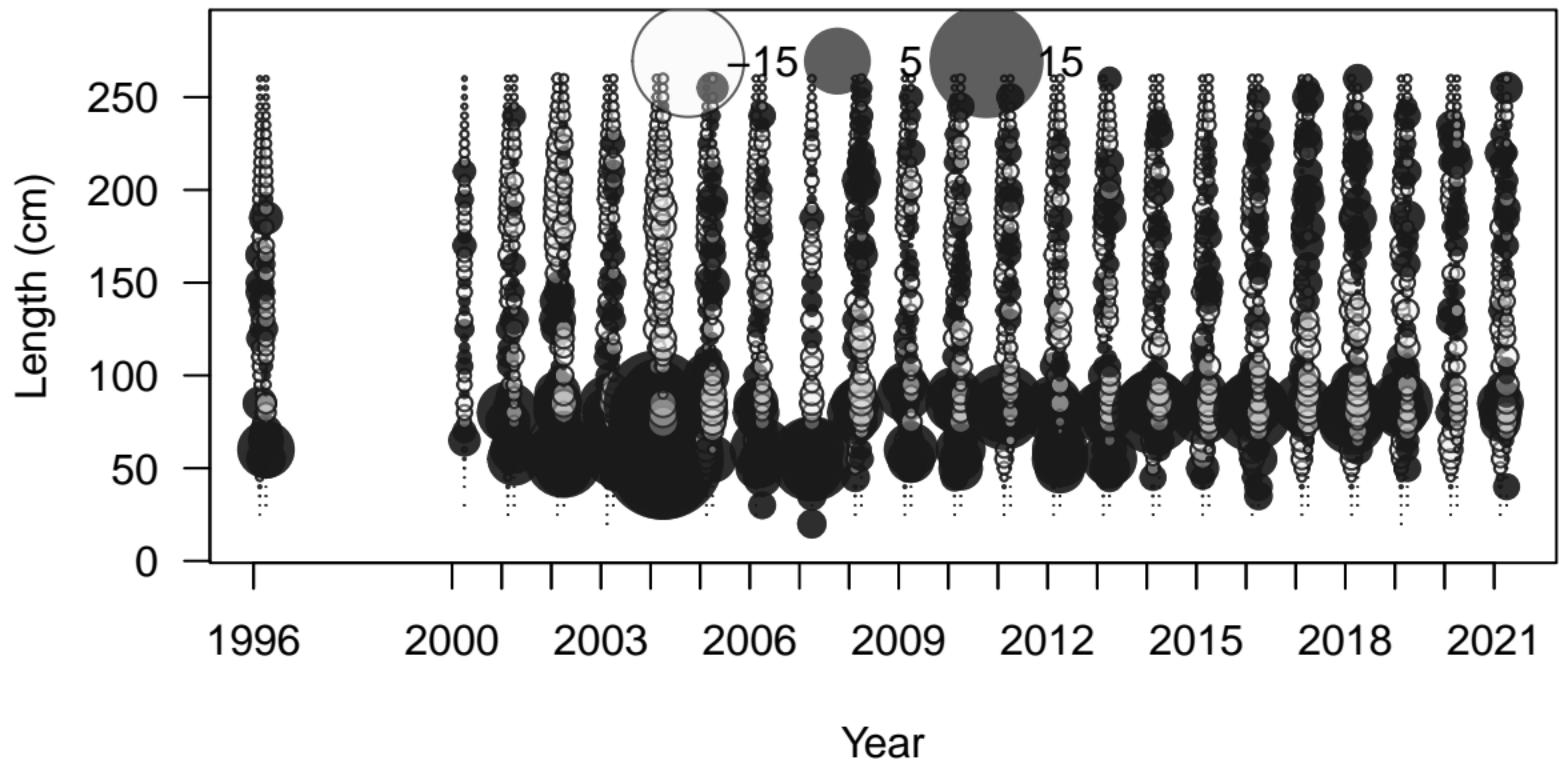


Proportion

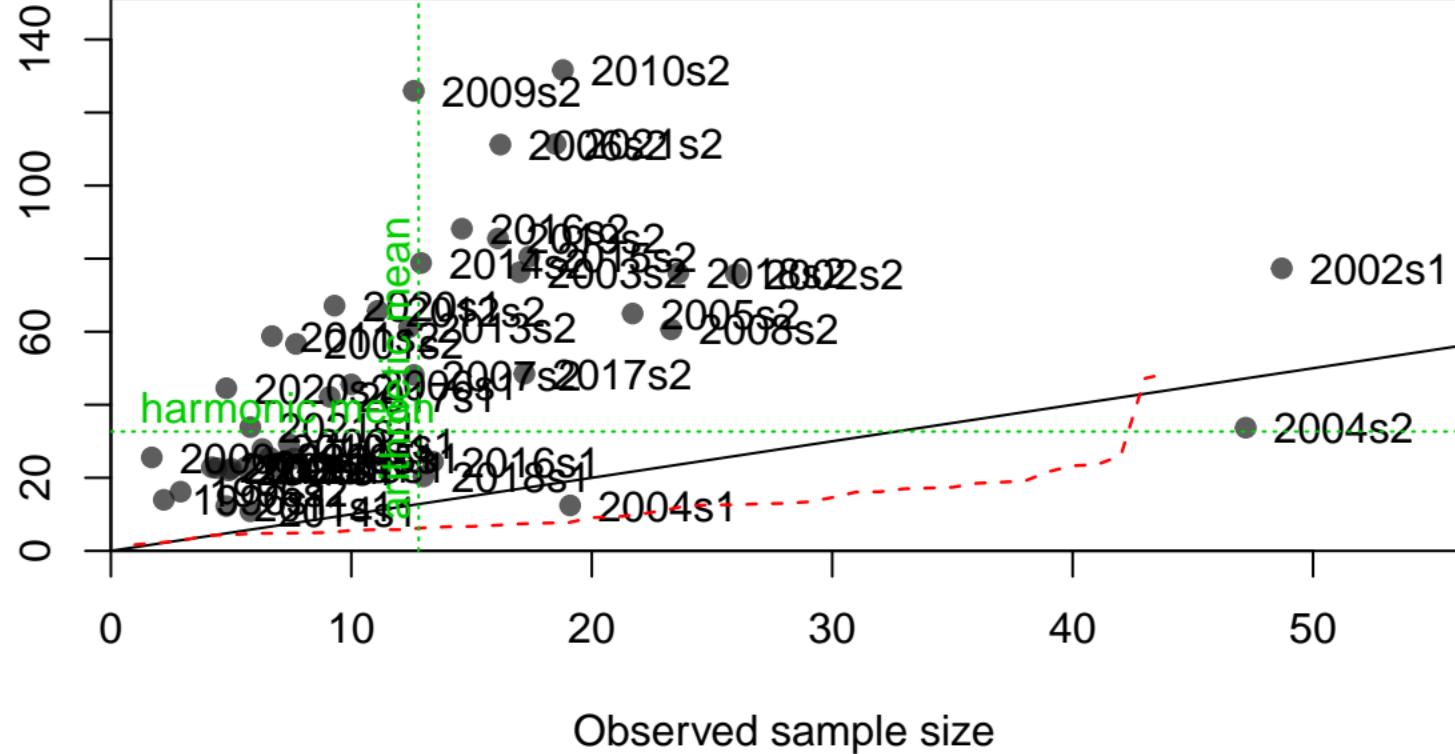


Proportion

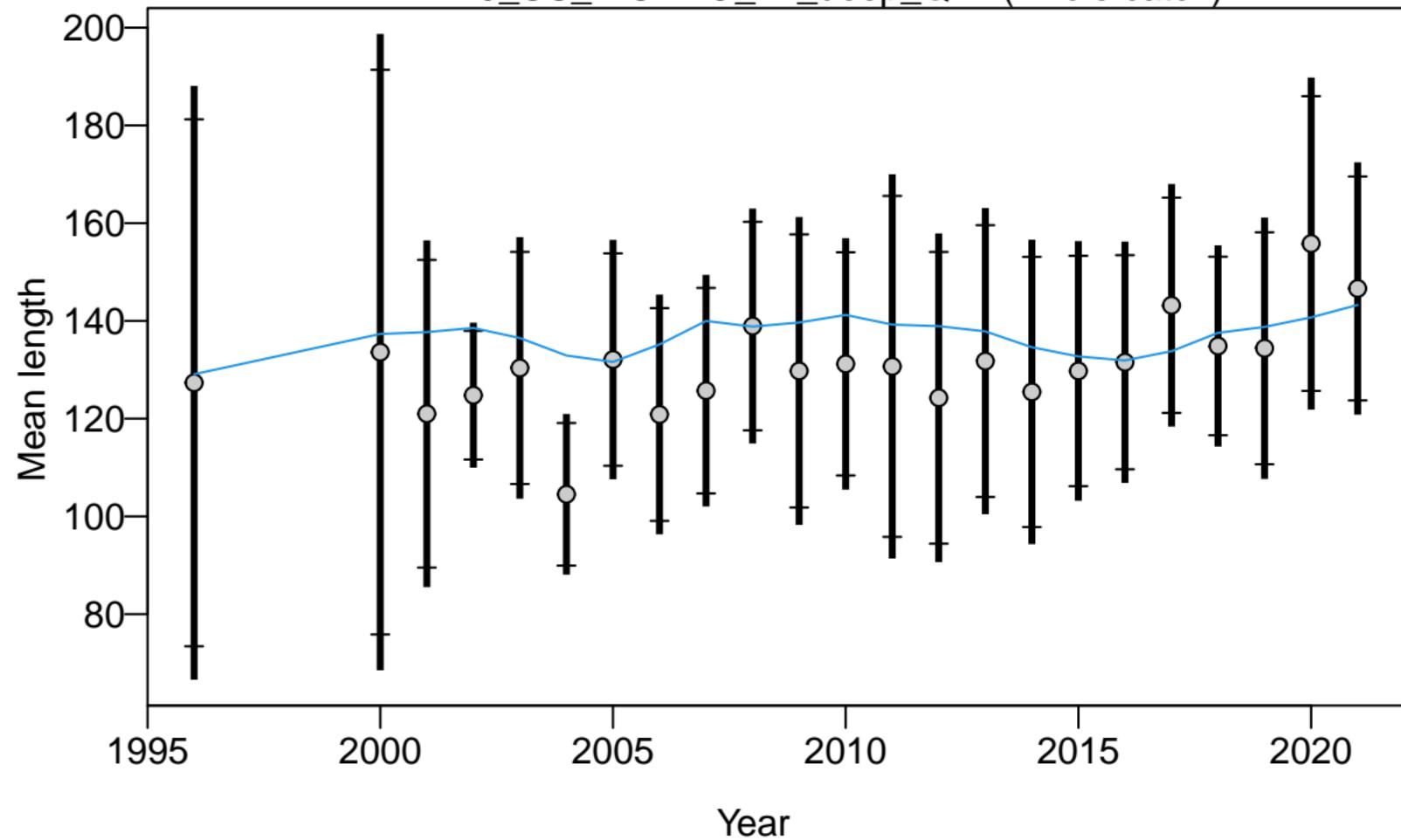




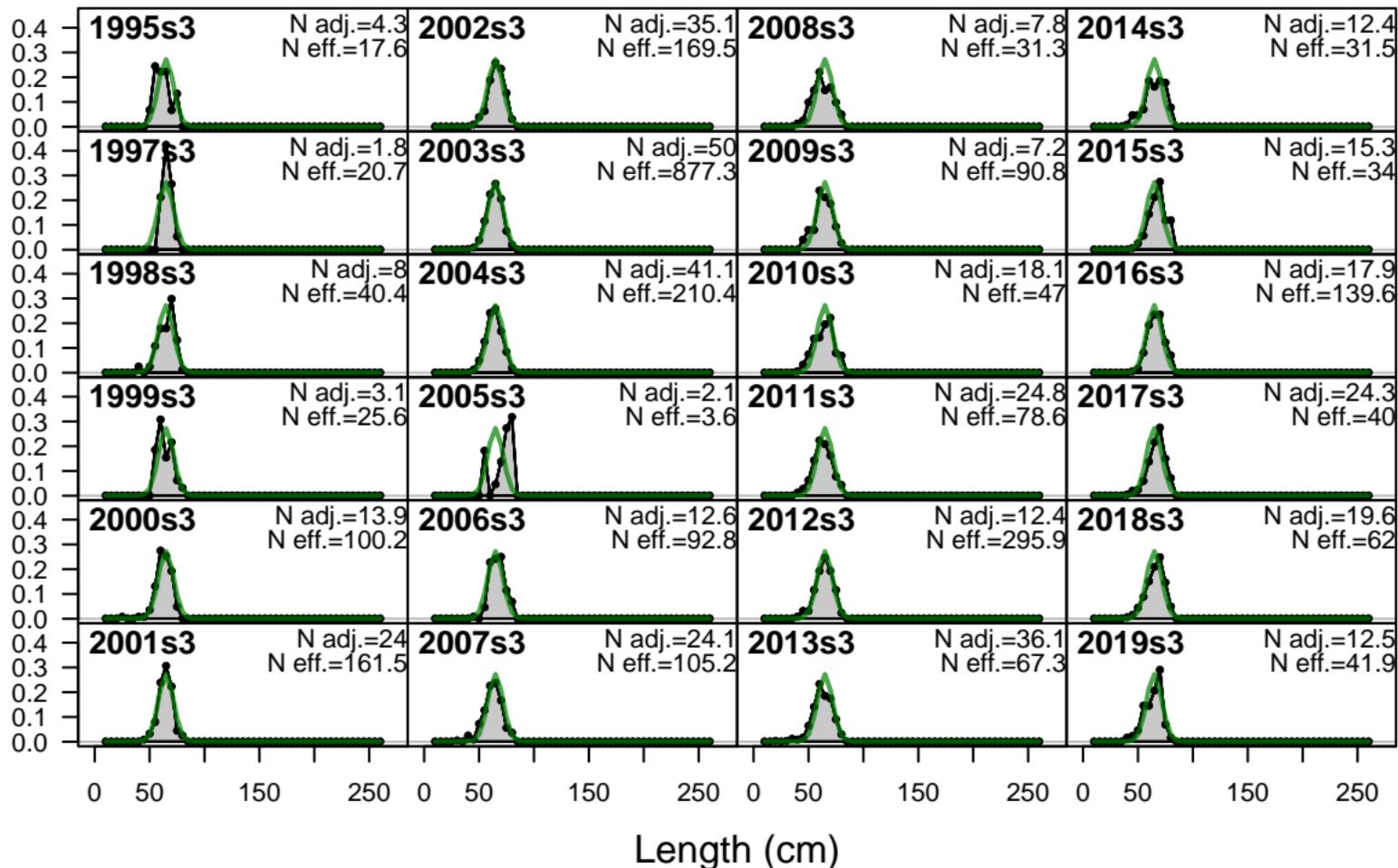
Effective sample size



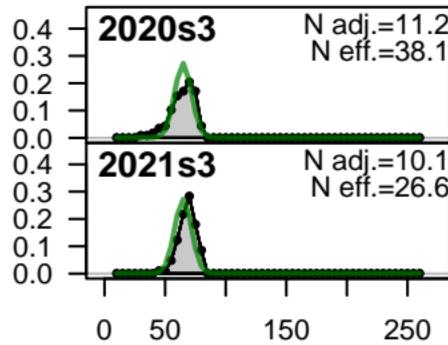
F9\_US\_WCNPO\_LL\_deep\_Q12 (whole catch)

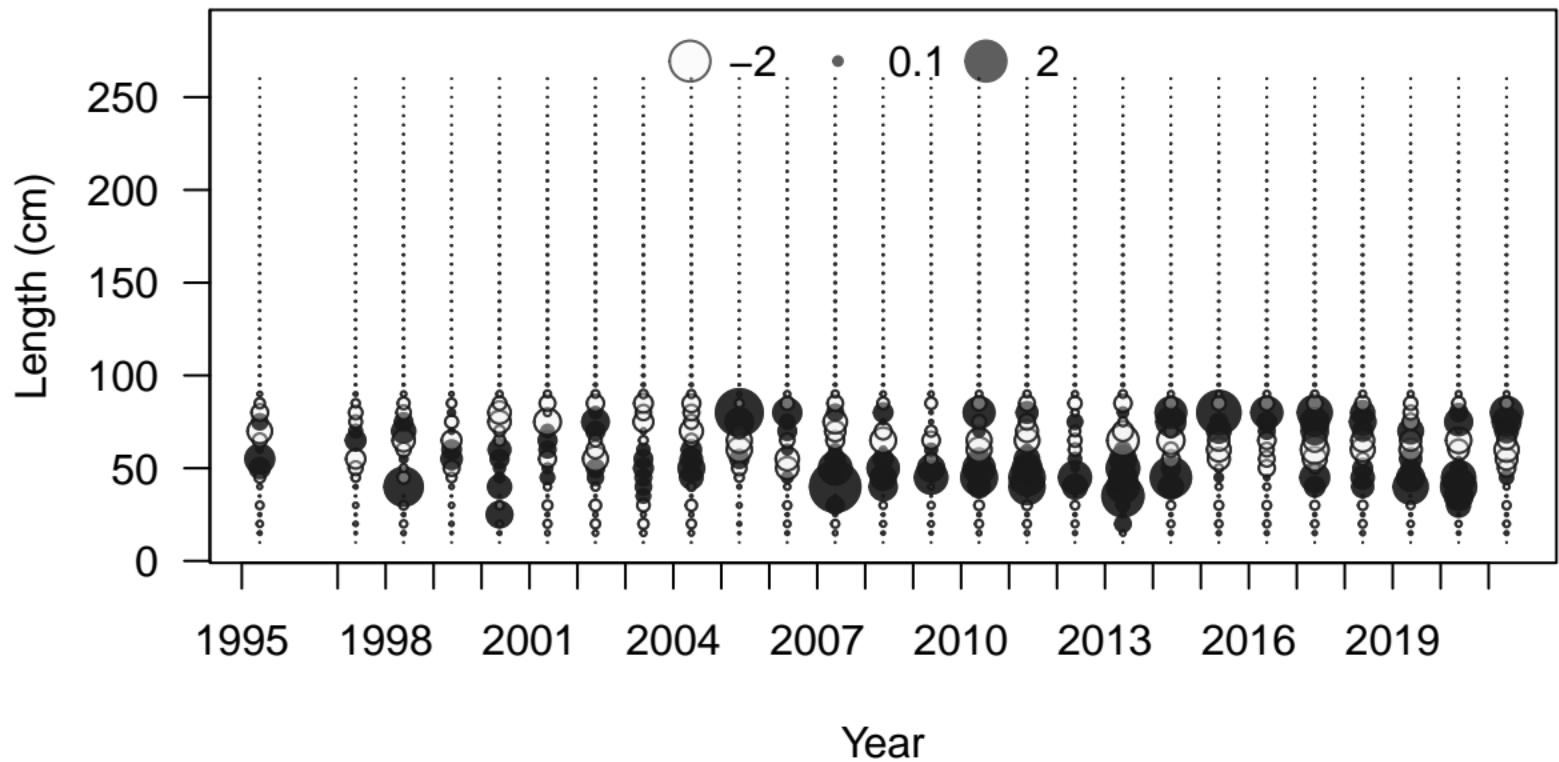


Proportion



Proportion





Effective sample size

800  
600  
400  
200  
0

0 10 20 30 40 50

Observed sample size

harmonic mean

geometric mean

2012s3

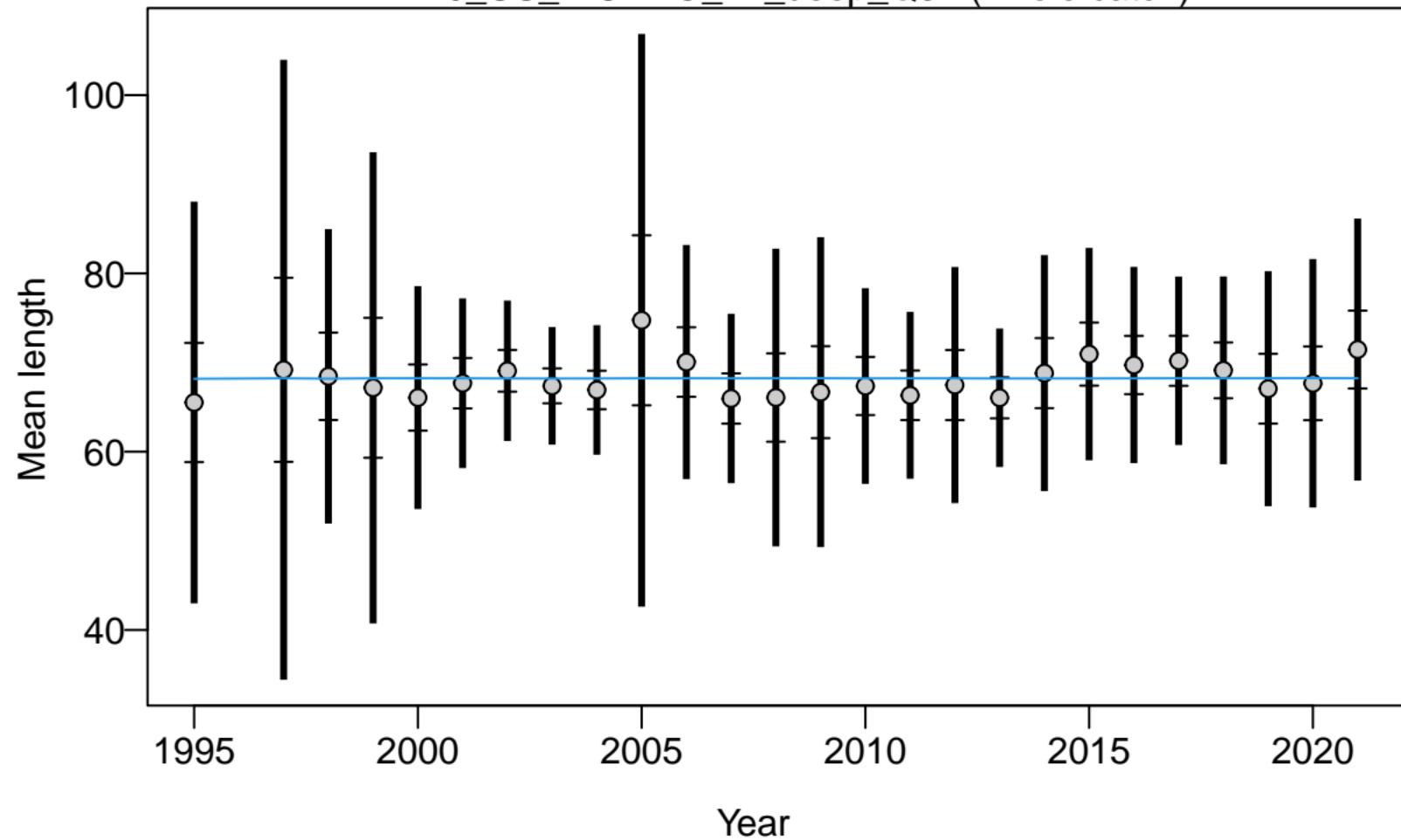
2009s3  
2008s3  
2007s3  
2006s3  
2005s3  
2004s3  
2003s3

2016s3  
2015s3  
2014s3  
2013s3  
2012s3  
2011s3  
2007s3  
2001s3  
2006s3

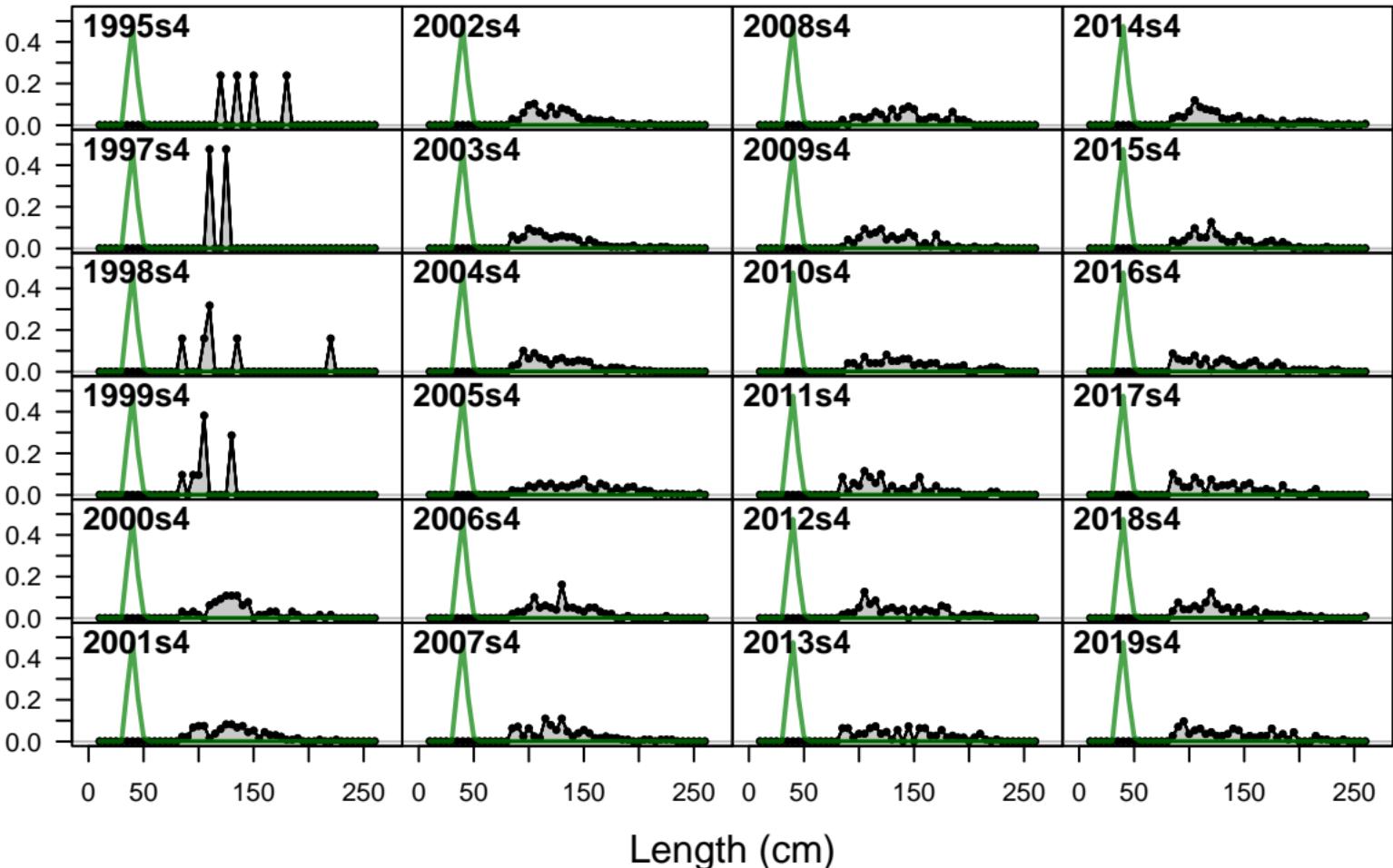
2002s3  
2013s3  
2004s3

2003s3

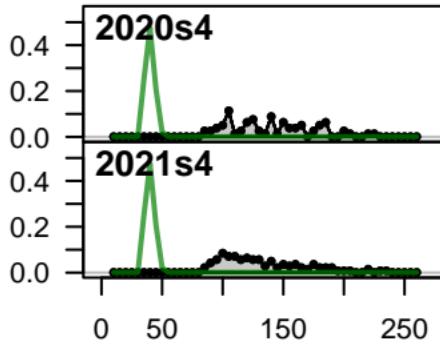
# F20\_US\_WCNPO\_LL\_deep\_Q34 (whole catch)



Proportion

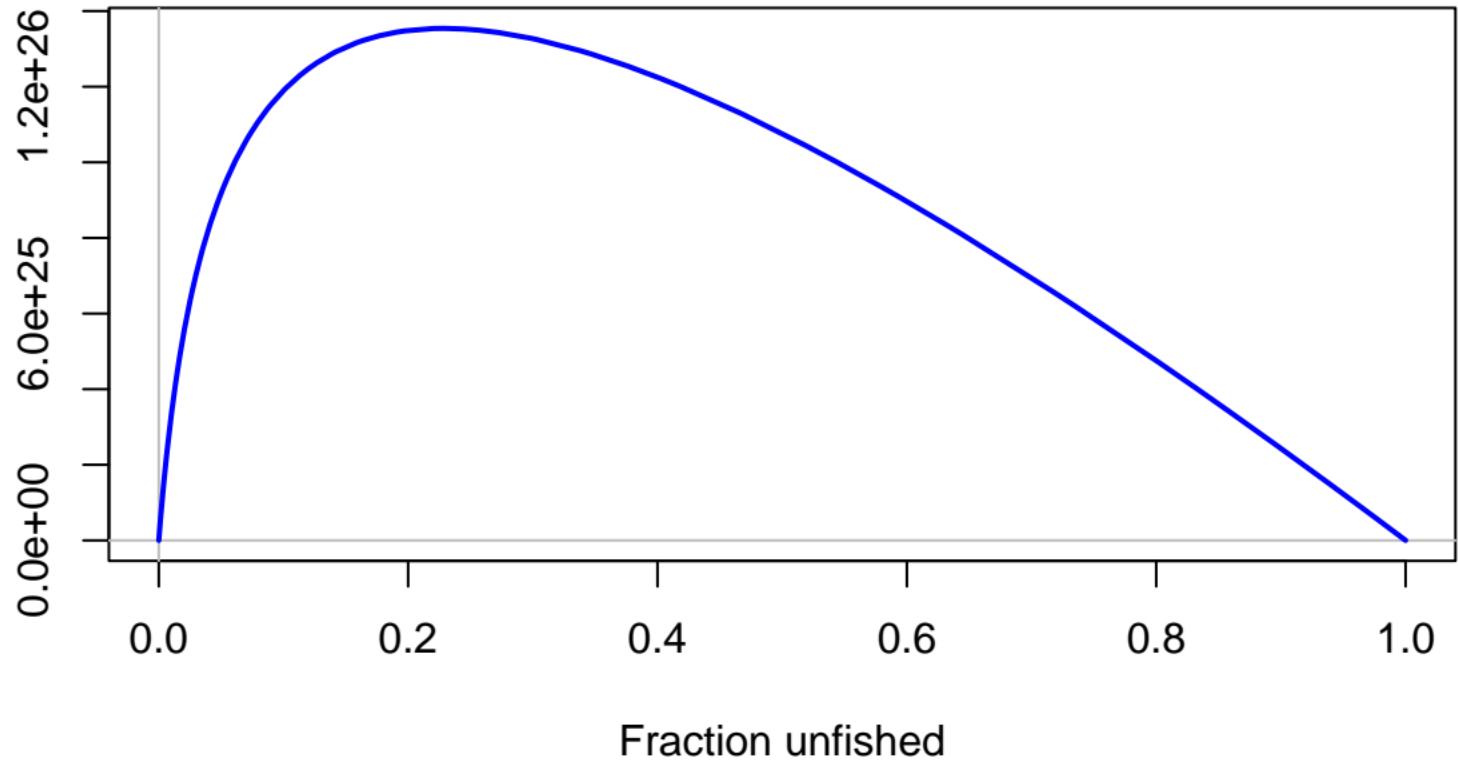


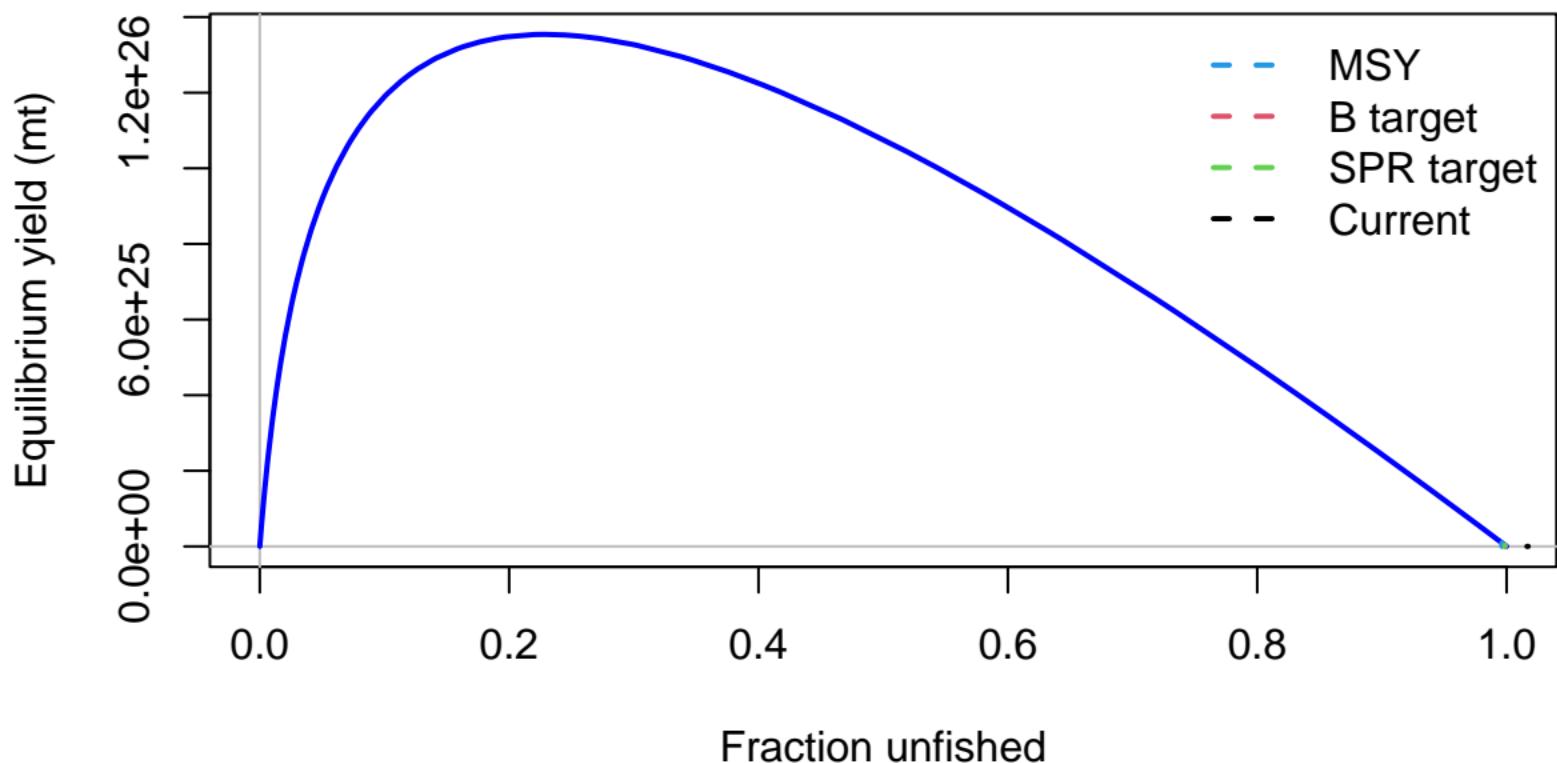
Proportion



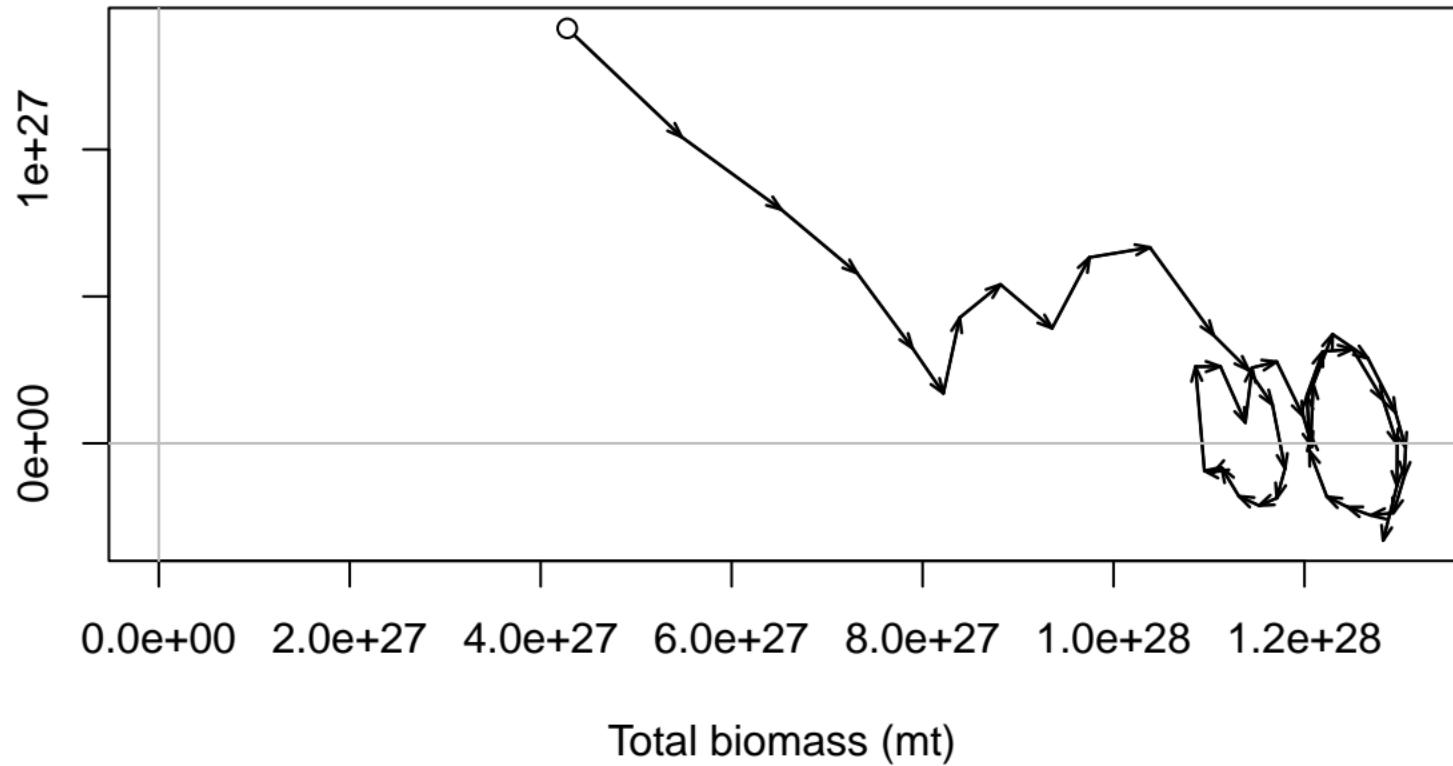
Length (cm)

Equilibrium yield (mt)





Surplus production (mt)



Yield per recruit (kg)

1.0e+20

0.0e+00

1980

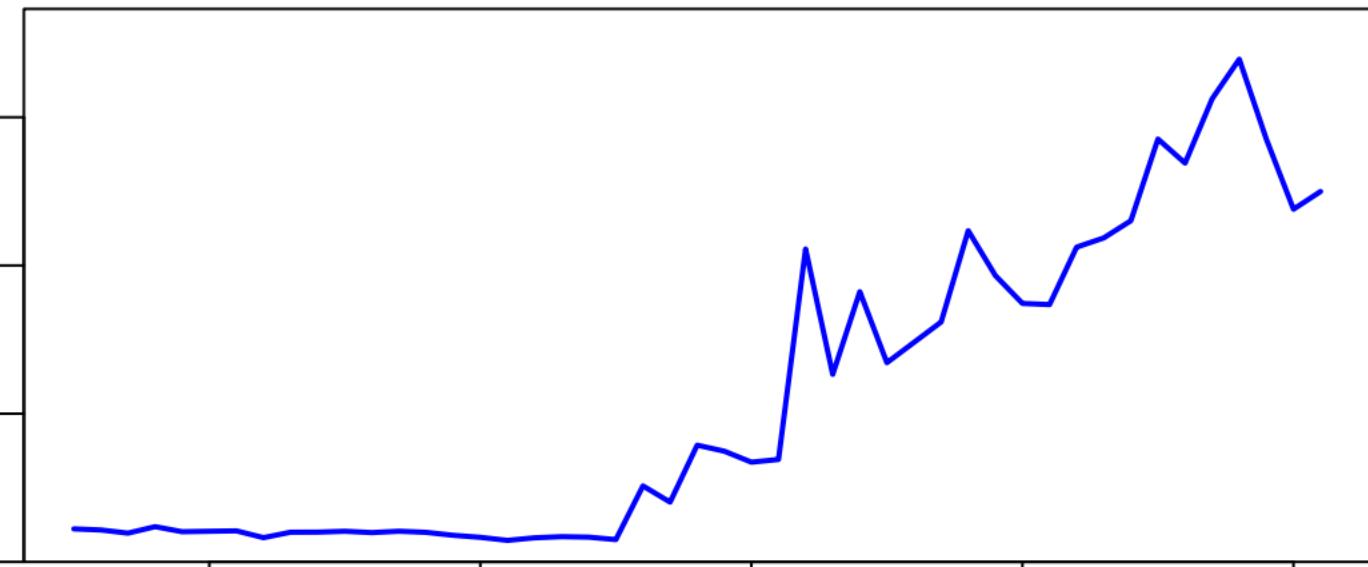
1990

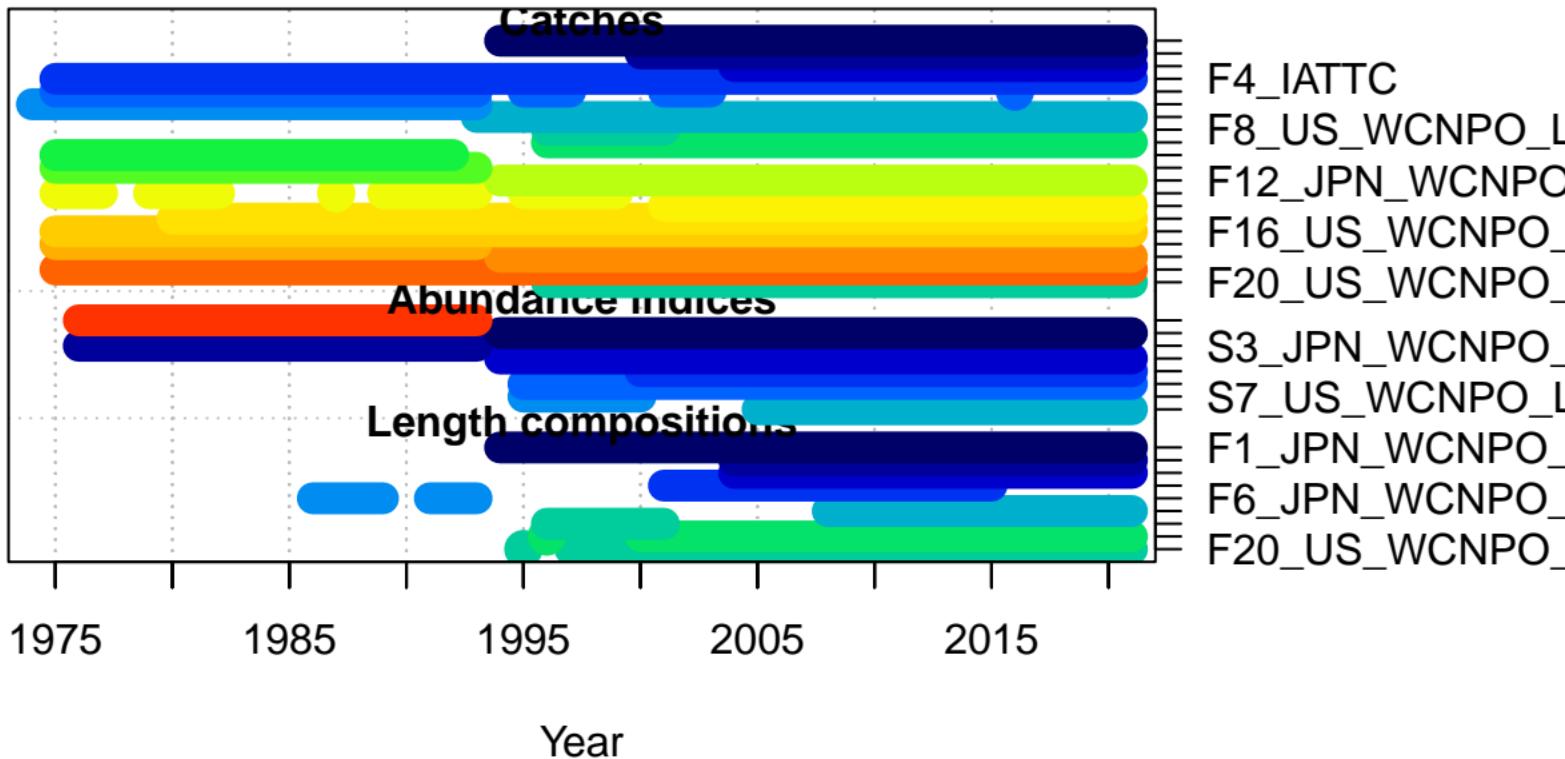
2000

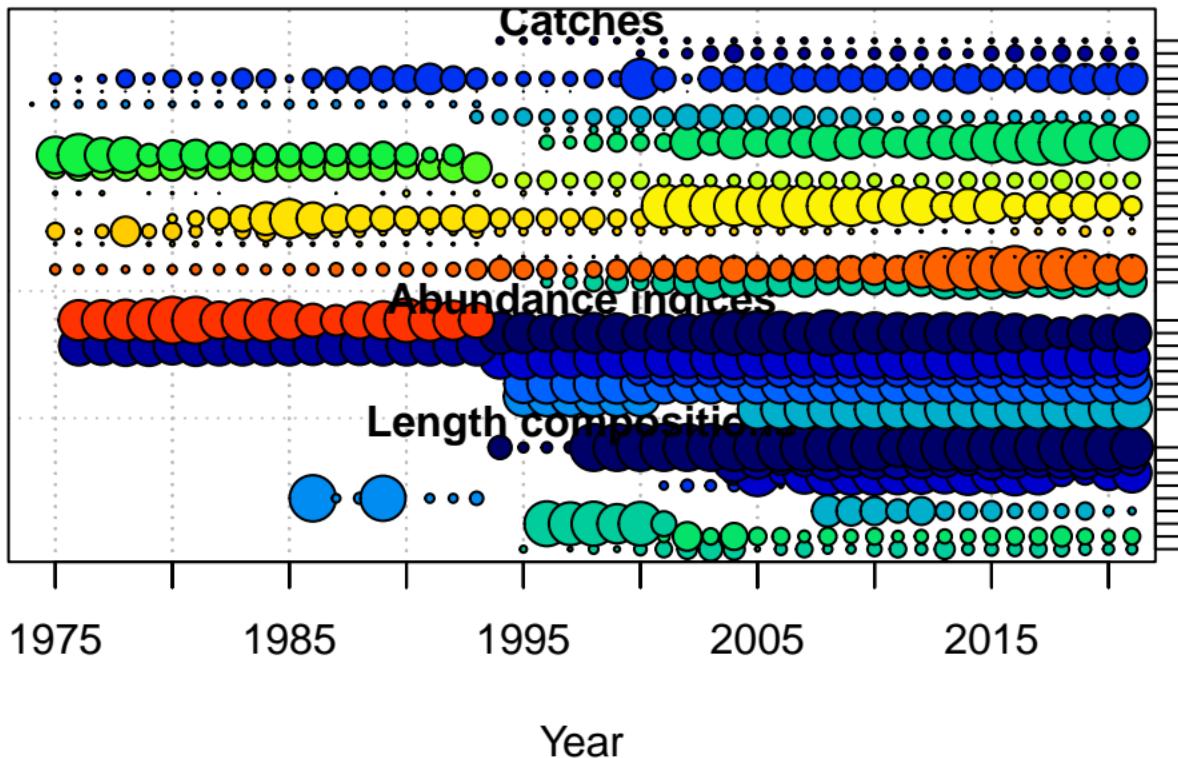
2010

2020

Year



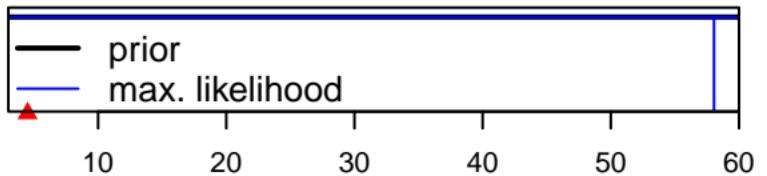




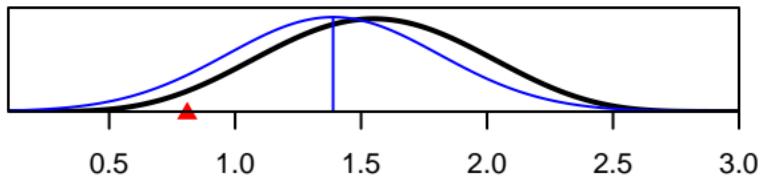
F4\_IATTC  
F8\_US\_WCNPO\_L  
F12\_JPN\_WCNPO\_L  
F16\_US\_WCNPO\_L  
F20\_US\_WCNPO\_L  
S3\_JPN\_WCNPO\_L  
S7\_US\_WCNPO\_L  
F1\_JPN\_WCNPO\_L  
F6\_JPN\_WCNPO\_L  
F20\_US\_WCNPO\_L

Density

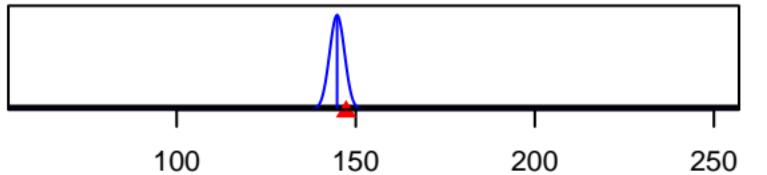
SR\_LN(R0)



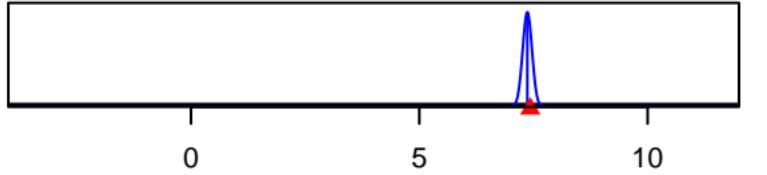
InitF\_seas\_1\_flt\_6F6\_JPN\_WCNPO\_OSDWLL\_early\_Area1



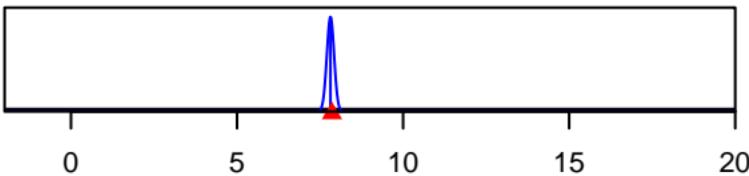
Size\_DbIN\_peak\_F1\_JPN\_WCNPO\_OSDWCOLL\_late\_Area1(



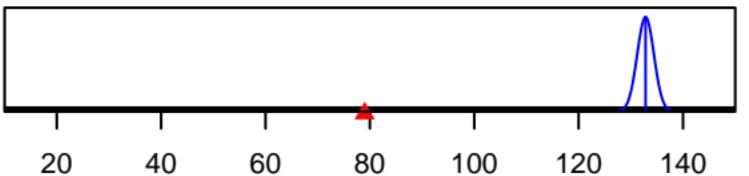
\_DbIN\_ascend\_se\_F1\_JPN\_WCNPO\_OSDWCOLL\_late\_Are



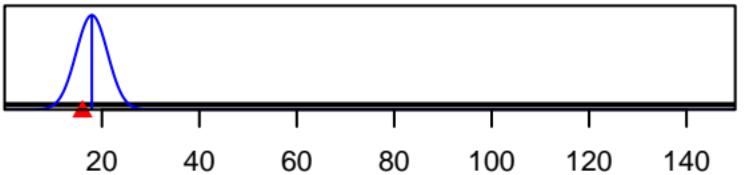
DbIN\_descend\_se\_F1\_JPN\_WCNPO\_OSDWCOLL\_late\_Are



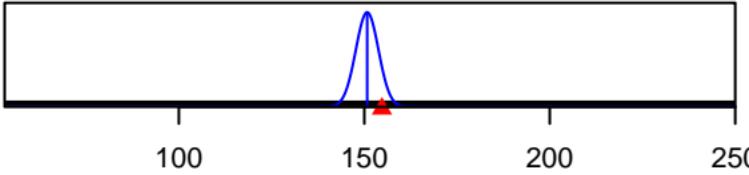
Size\_inflection\_F2\_TWN\_WCNPO\_DWLL\_late(2)



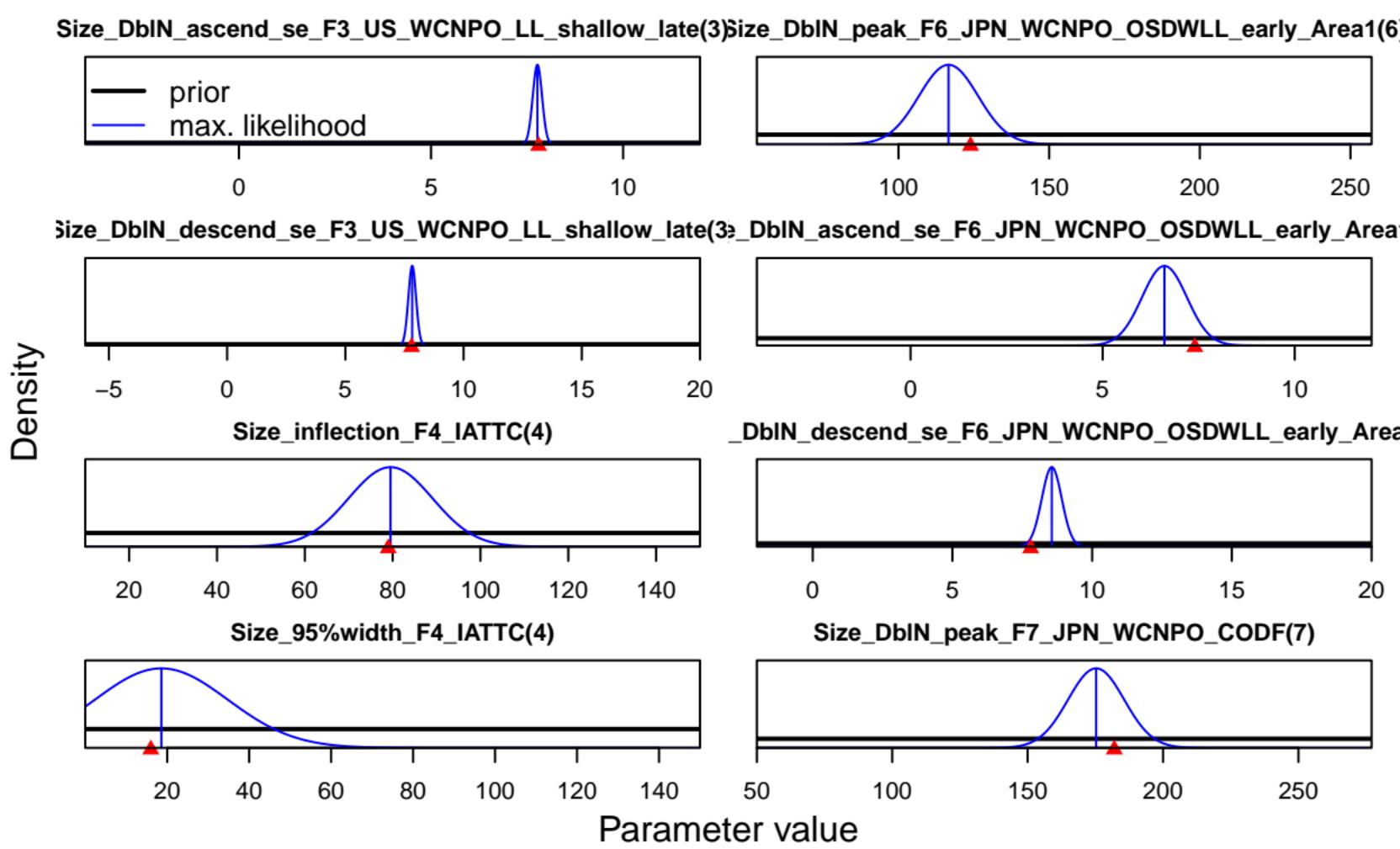
Size\_95%width\_F2\_TWN\_WCNPO\_DWLL\_late(2)



Size\_DbIN\_peak\_F3\_US\_WCNPO\_LL\_shallow\_late(3)

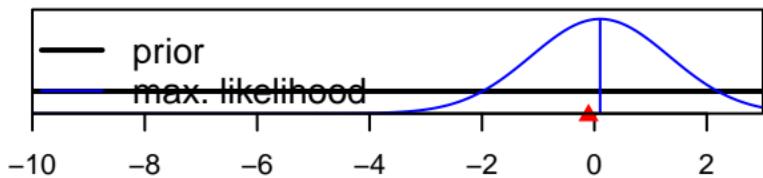


Parameter value

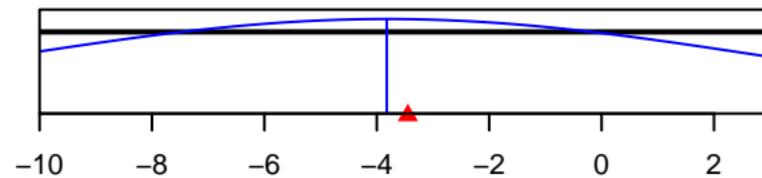


Density

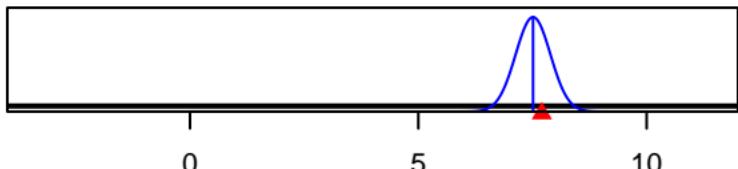
Size\_DbIN\_top\_logit\_F7\_JPN\_WCNPO\_CODF(7)



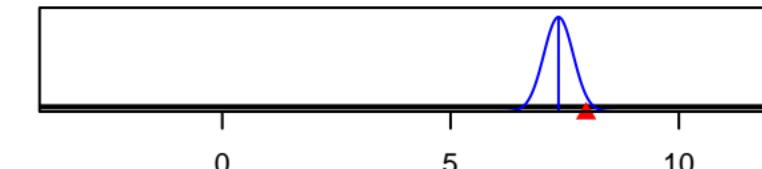
Size\_DbIN\_top\_logit\_F8\_US\_WCNPO\_LL\_shallow\_early(8)



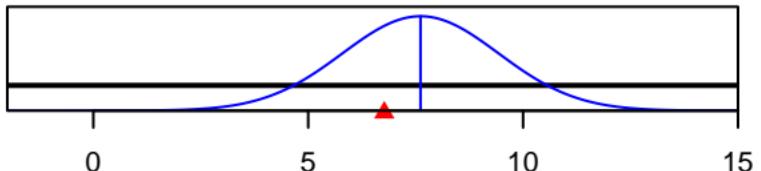
Size\_DbIN\_ascend\_se\_F7\_JPN\_WCNPO\_CODF(7)



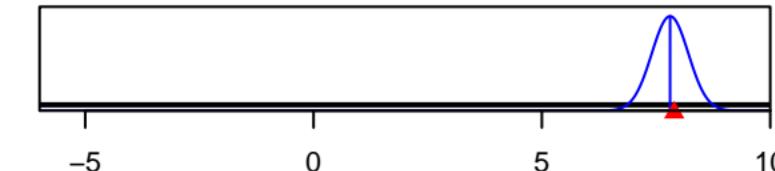
Size\_DbIN\_ascend\_se\_F8\_US\_WCNPO\_LL\_shallow\_early(8)



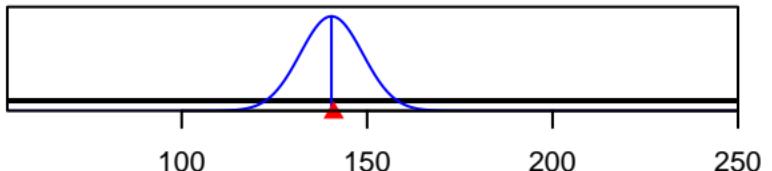
Size\_DbIN\_descend\_se\_F7\_JPN\_WCNPO\_CODF(7)



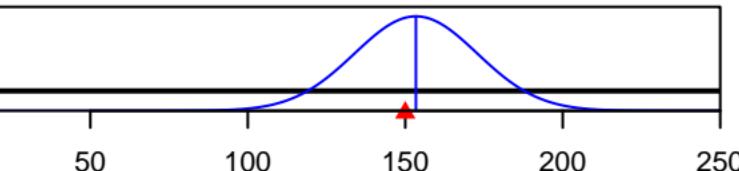
Size\_DbIN\_descend\_se\_F8\_US\_WCNPO\_LL\_shallow\_early(8)



Size\_DbIN\_peak\_F8\_US\_WCNPO\_LL\_shallow\_early(8)

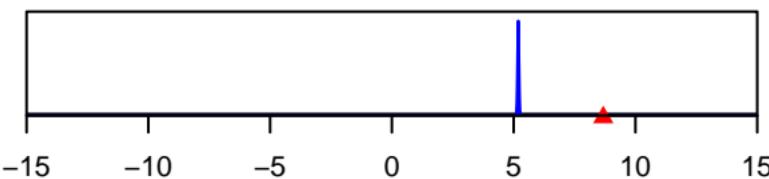
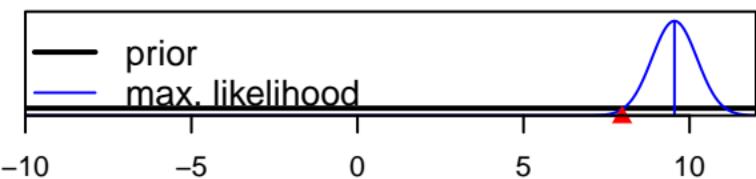


Size\_DbIN\_peak\_F9\_US\_WCNPO\_LL\_deep\_Q12(9)

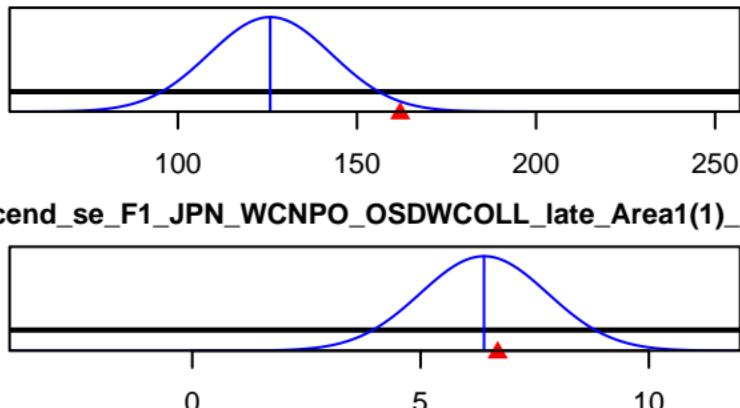
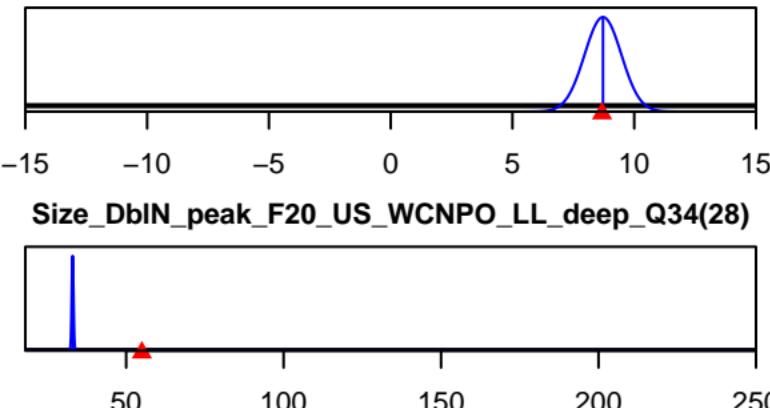


Parameter value

Size\_DbIN\_ascend\_se\_F9\_US\_WCNPO\_LL\_deep\_Q12(9) Size\_DbIN\_descend\_se\_F20\_US\_WCNPO\_LL\_deep\_Q34(28)

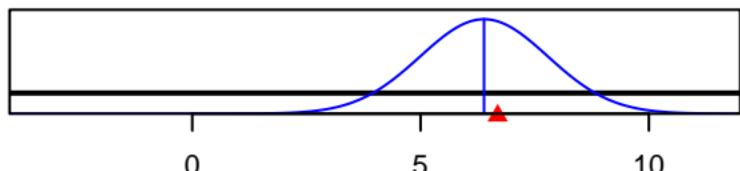
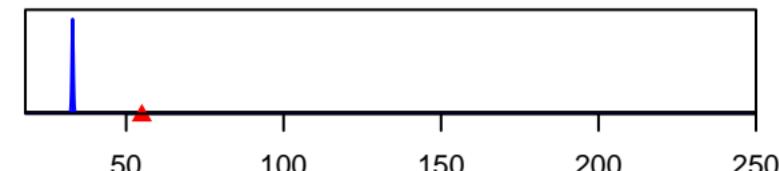


Size\_DbIN\_descend\_se\_F9\_US\_WCNPO\_LL\_deep\_Q12(9) l\_peak\_F1\_JPN\_WCNPO OSDWCOLL\_late\_Area1(1)\_BLK2

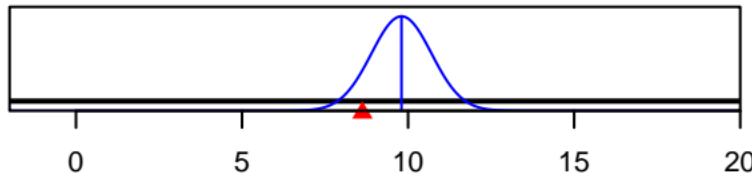
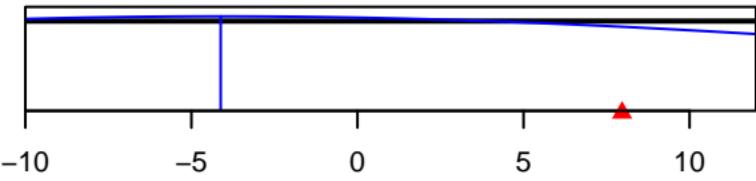


Size\_DbIN\_peak\_F20\_US\_WCNPO\_LL\_deep\_Q34(28)

scend\_se\_F1\_JPN\_WCNPO OSDWCOLL\_late\_Area1(1)\_BLK2

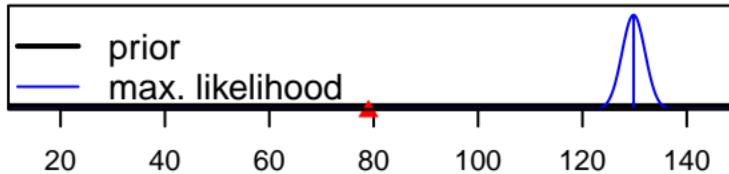


Size\_DbIN\_ascend\_se\_F20\_US\_WCNPO\_LL\_deep\_Q34(28) scend\_se\_F1\_JPN\_WCNPO OSDWCOLL\_late\_Area1(1)\_BLK2

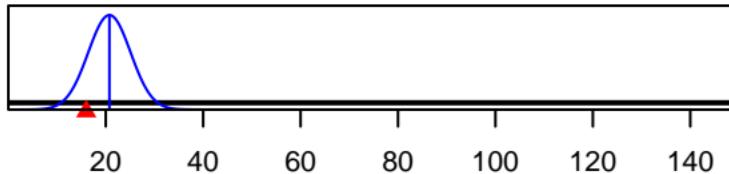


Parameter value

:e\_inflection\_F2\_TWN\_WCNPO\_DWLL\_late(2)\_BLK1repl\_20



:e\_95%width\_F2\_TWN\_WCNPO\_DWLL\_late(2)\_BLK1repl\_20



Density

Parameter value