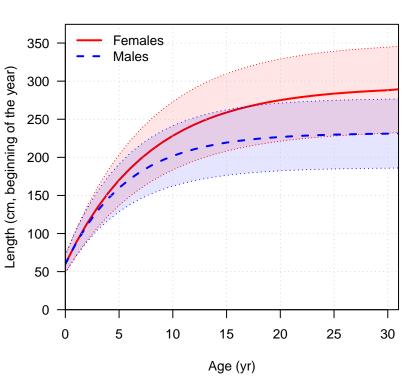
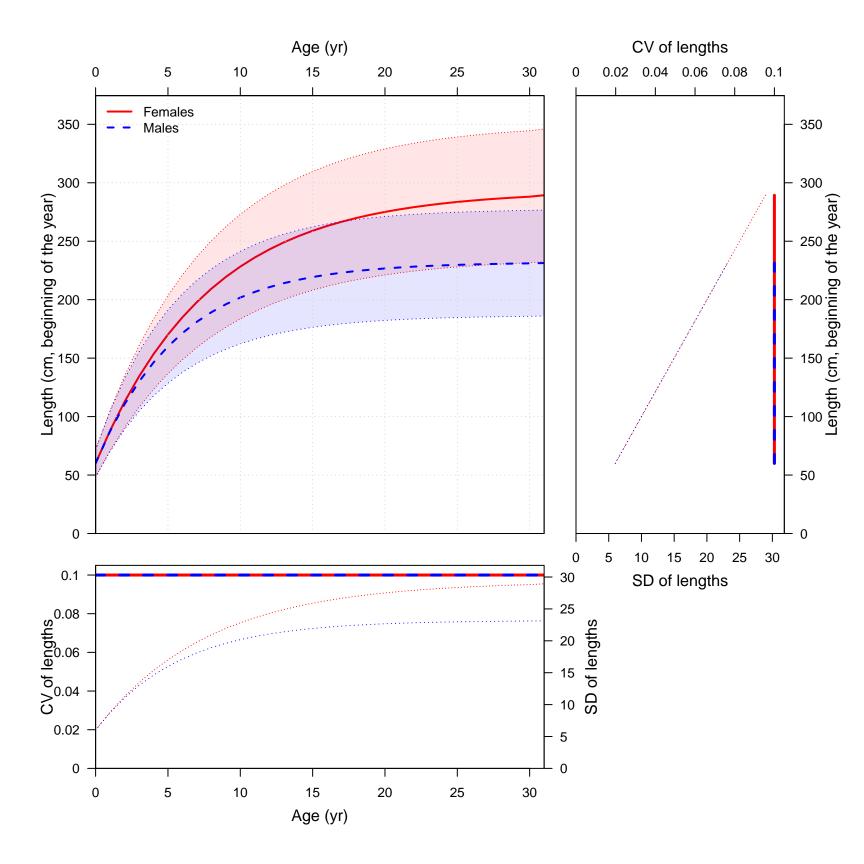
Plots created using the 'r4ss' package in R Stock Synthesis version: SS-V3.24U

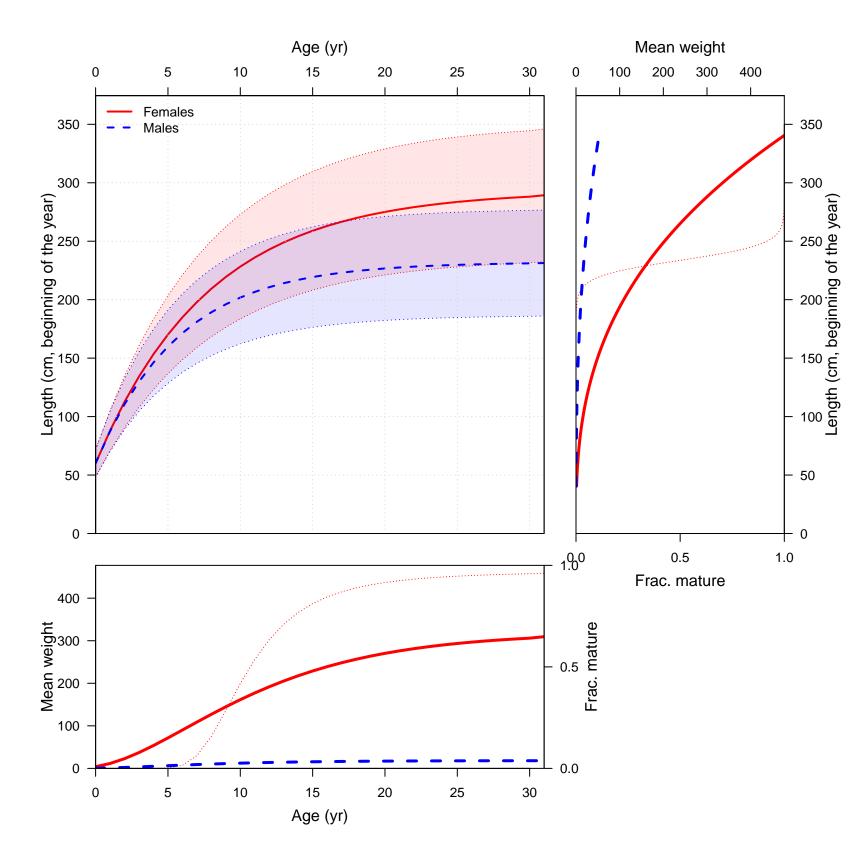
Data\_File: DATA.ss

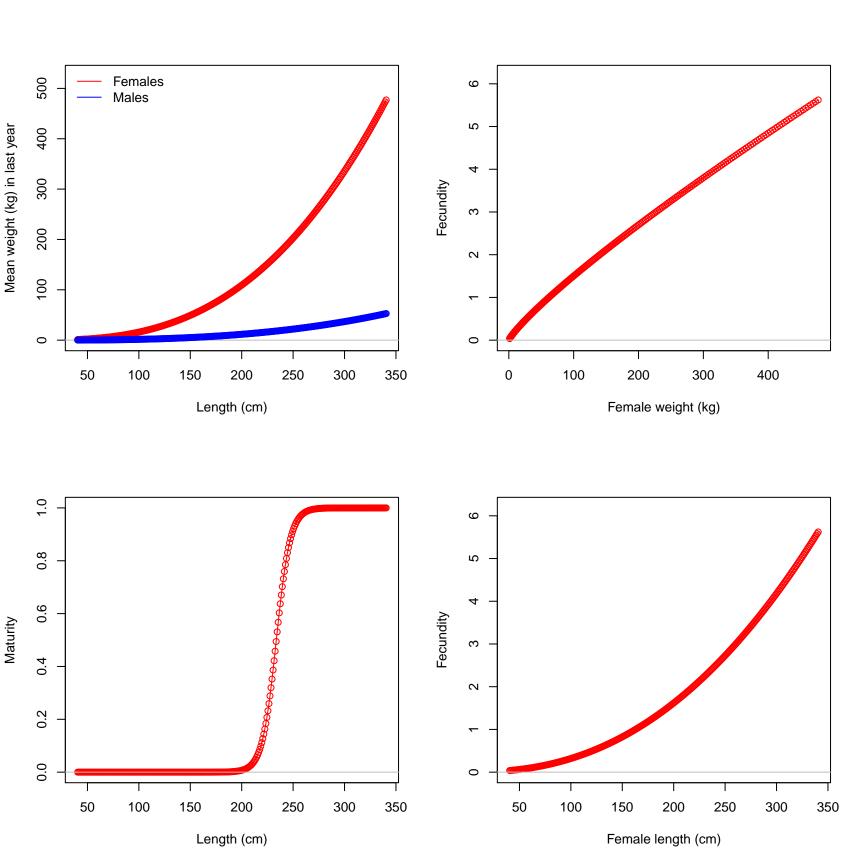
Control\_File: CONTROL.ss

# Ending year expected growth (with 95% intervals)

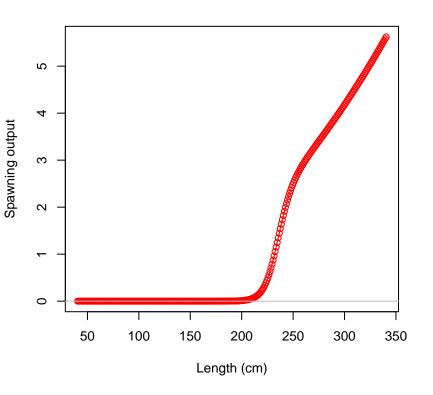


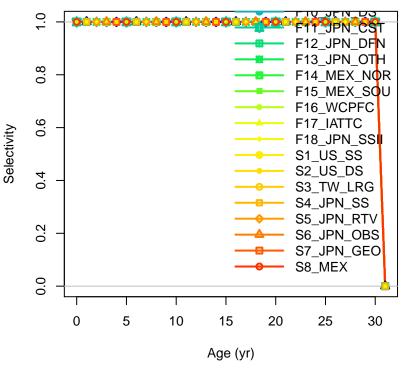




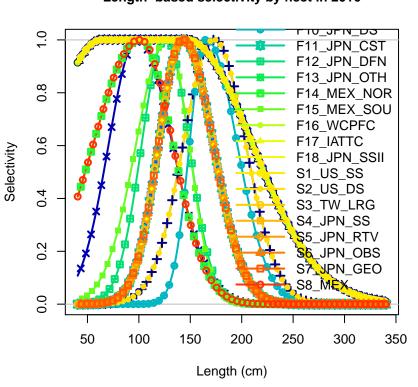


#### Age-based selectivity by fleet in 2016

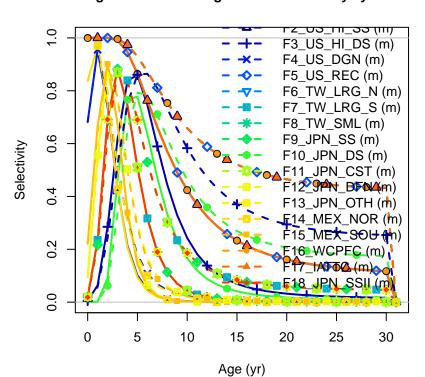


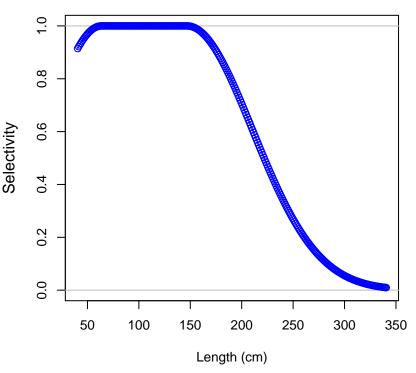


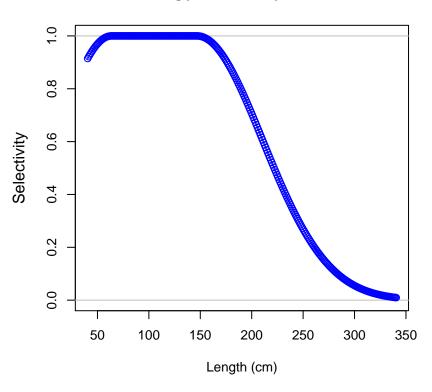
Length-based selectivity by fleet in 2016



Derived age-based from length-based selectivity by fleet in 201







Male ending year selectivity for F1\_US\_CA

Selectivity

0.1

8.0

0.7

50

100

150

200

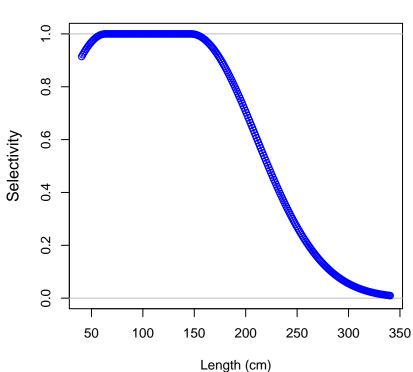
250

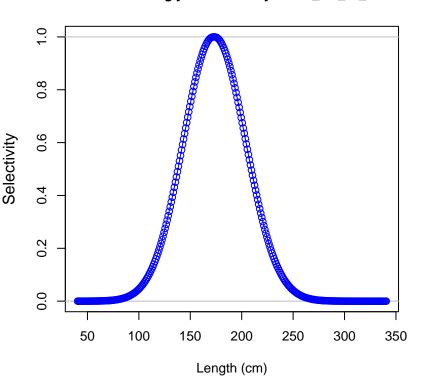
300

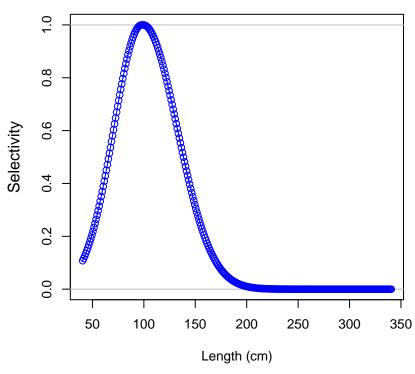
350

Length (cm)

Male ending year selectivity for F2\_US\_HI\_SS





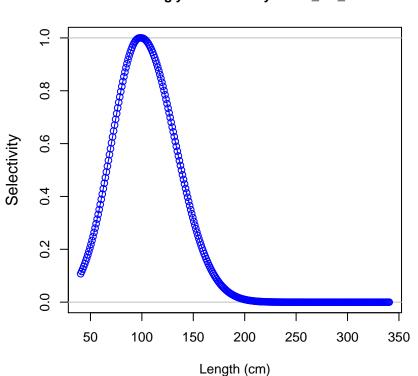


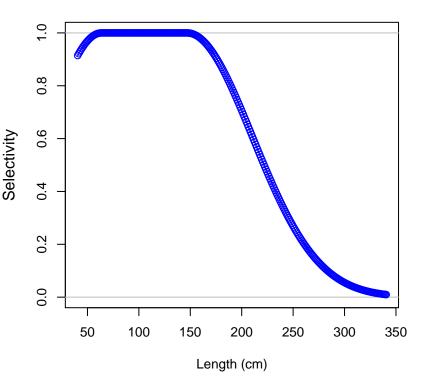
Male ending year selectivity for F3\_US\_HI\_DS

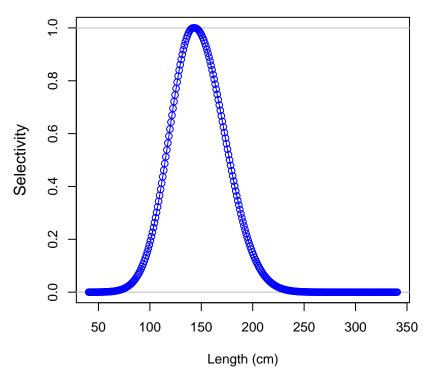
0.7 8.0 9.0 7.0 50 100 150 200 250 300 350 Length (cm)

Selectivity

Male ending year selectivity for F4\_US\_DGN

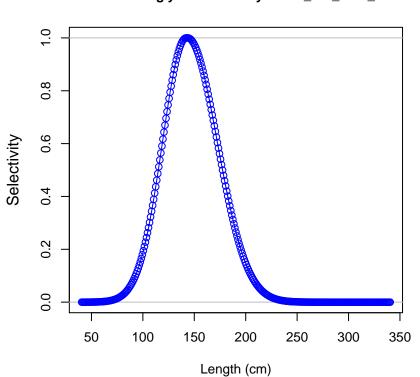






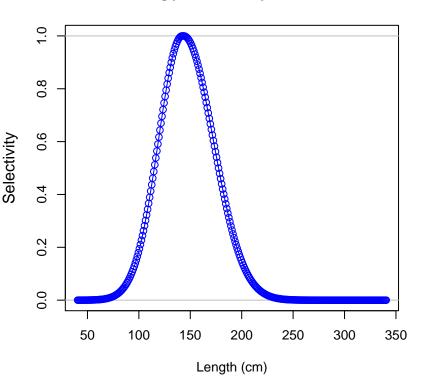
Male ending year selectivity for F5\_US\_REC

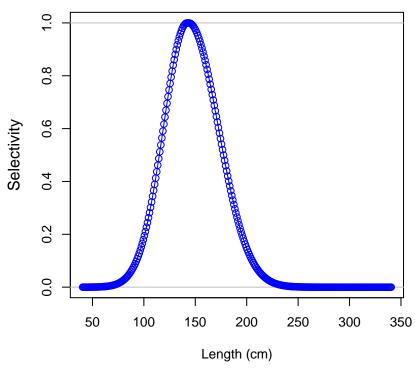
Male ending year selectivity for F6\_TW\_LRG\_N





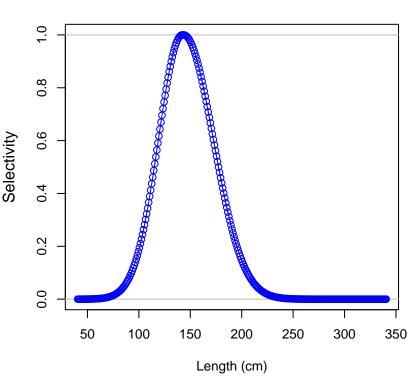
Female ending year selectivity for F8\_TW\_SML

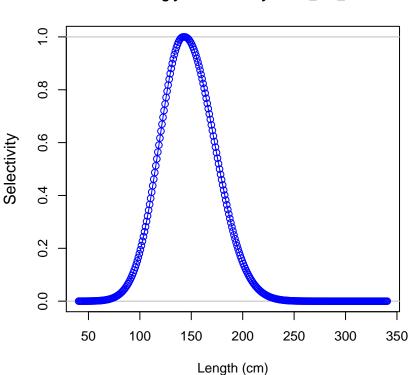


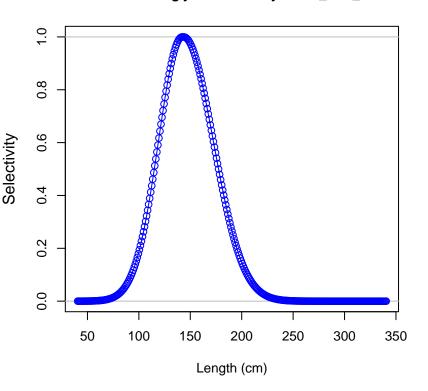


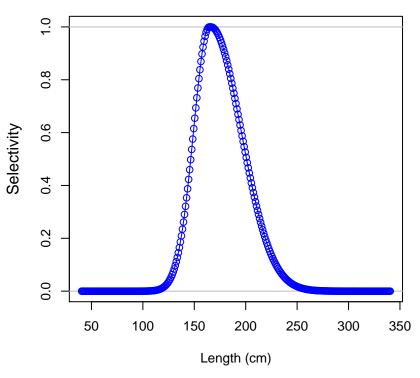
Male ending year selectivity for F7\_TW\_LRG\_S

Male ending year selectivity for F8\_TW\_SML









Male ending year selectivity for F9\_JPN\_SS

Selectivity

0.1

8.0

0.2

0.4

0.6

0.7

0.7

0.9

0.7

100

150

200

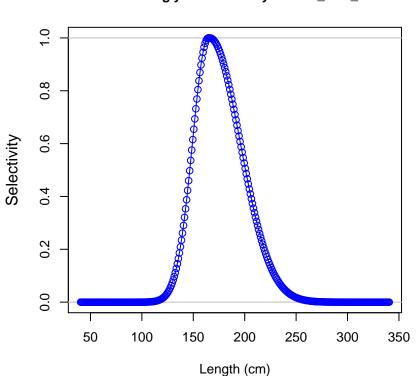
250

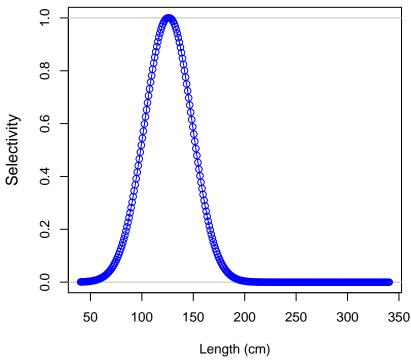
300

350

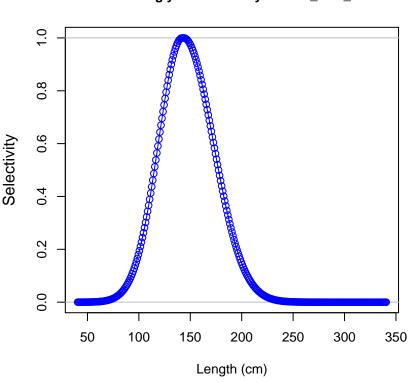
Length (cm)

Male ending year selectivity for F10\_JPN\_DS

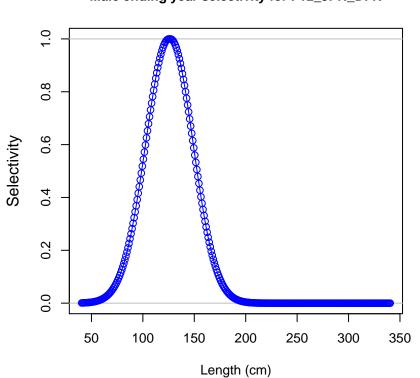


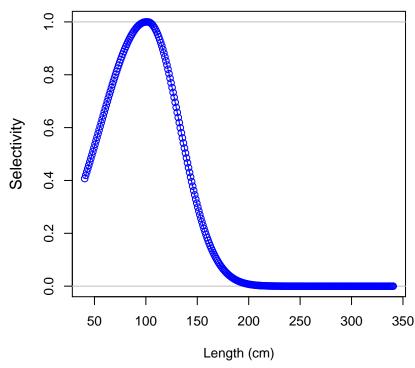


Male ending year selectivity for F11\_JPN\_CST



Male ending year selectivity for F12\_JPN\_DFN





Male ending year selectivity for F13\_JPN\_OTH

Length (cm)

200

250

300

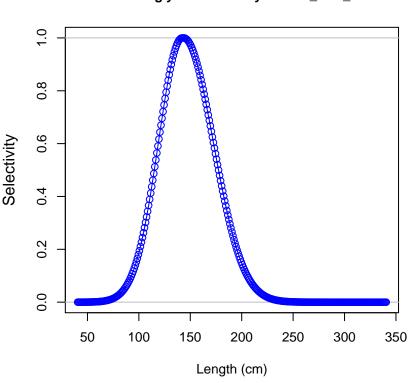
350

Selectivity

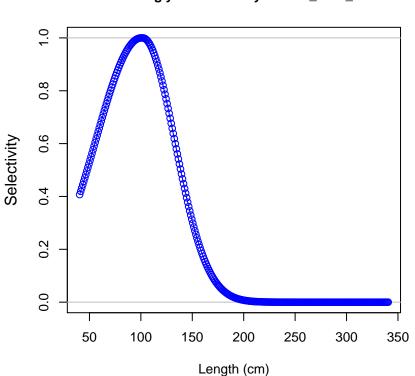
0.0

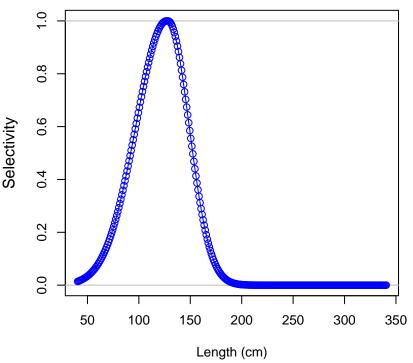
50

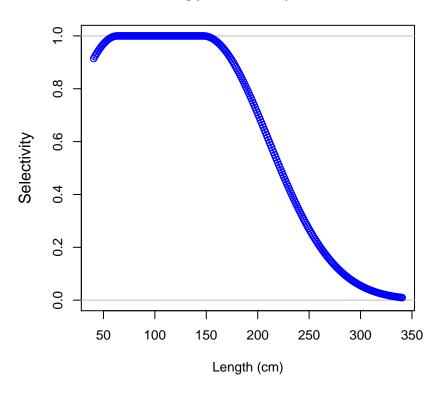
100



Male ending year selectivity for F14\_MEX\_NOR





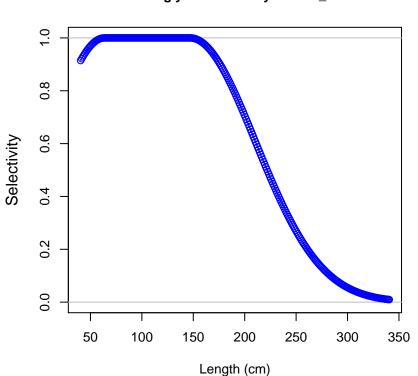


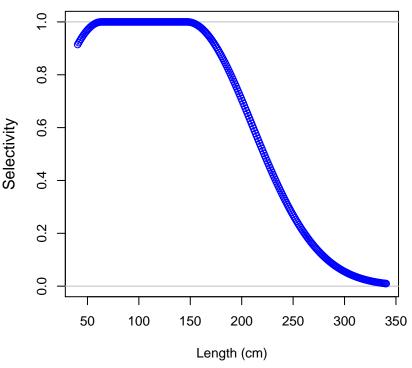
Male ending year selectivity for F15\_MEX\_SOU

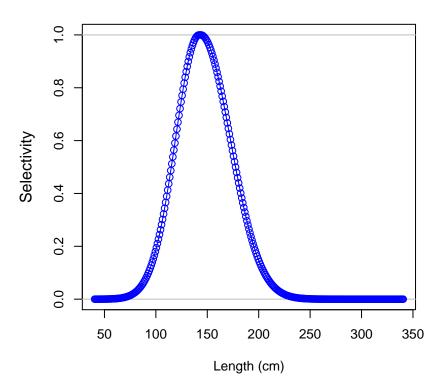
0.7 8.0 9.0 7.0 50 100 150 200 250 300 350 Length (cm)

Selectivity

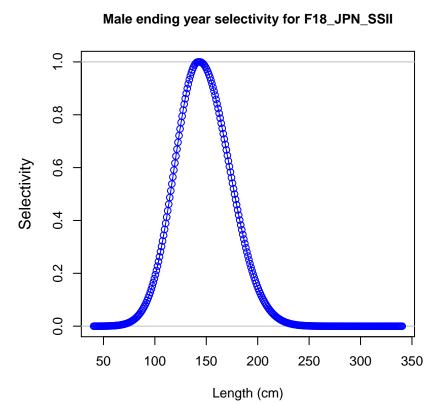
Male ending year selectivity for F16\_WCPFC



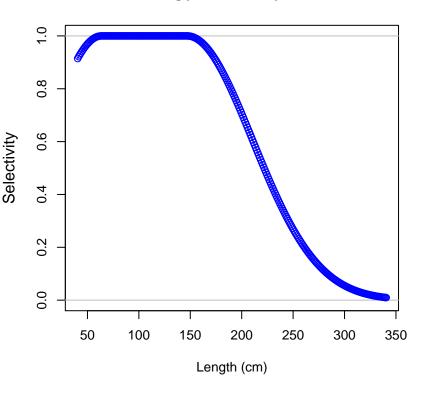


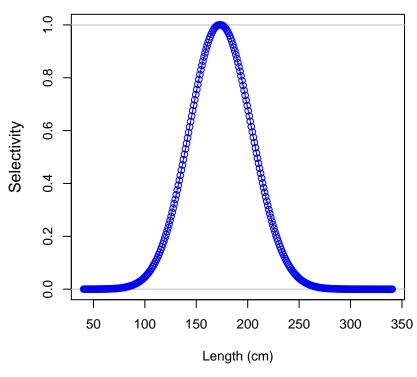


Male ending year selectivity for F17\_IATTC



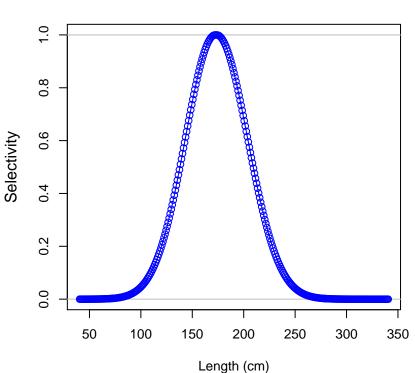
1.0 0.8 9.0 Selectivity 0.4 0.2 0.0 50 100 150 200 250 300 350 Length (cm)

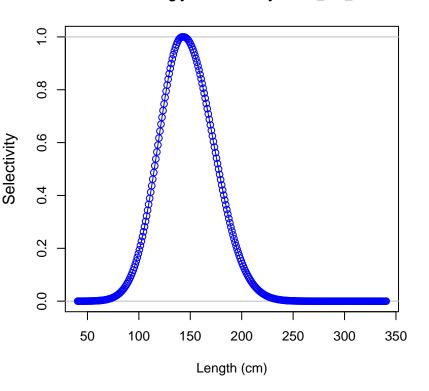


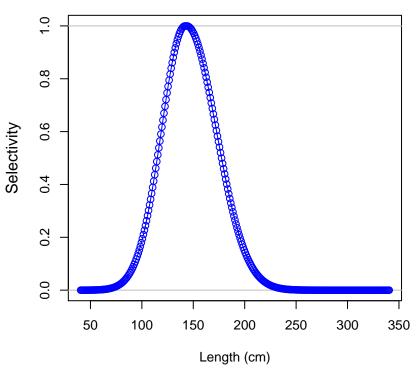


Male ending year selectivity for S1\_US\_SS

Male ending year selectivity for S2\_US\_DS



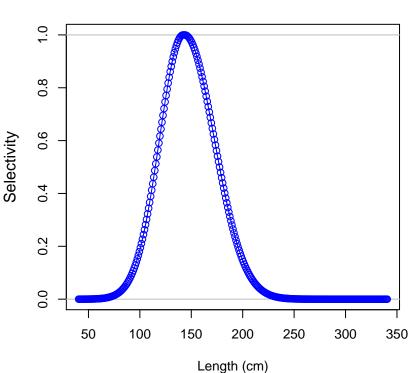


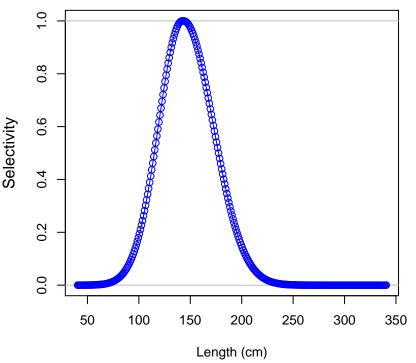


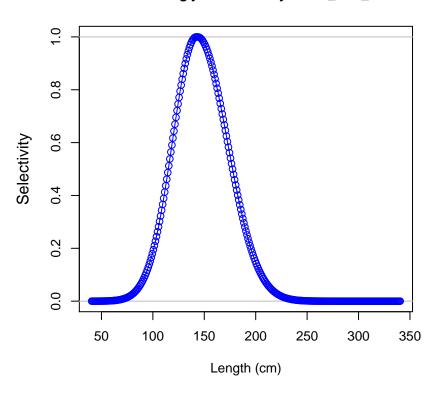
Male ending year selectivity for S3\_TW\_LRG

Selectivity 50 100 150 200 250 300 350 Length (cm)

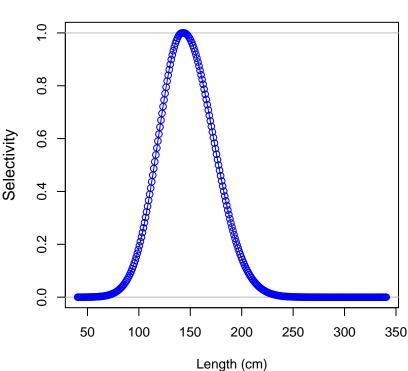
Male ending year selectivity for S4\_JPN\_SS



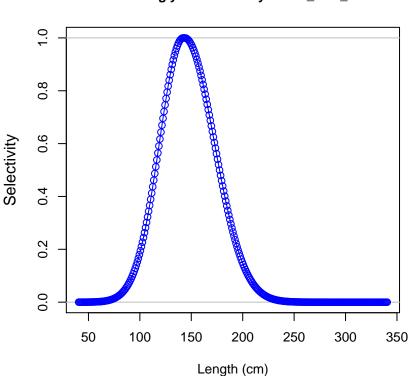




Male ending year selectivity for S5\_JPN\_RTV

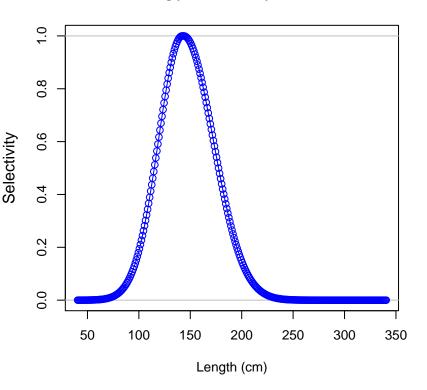


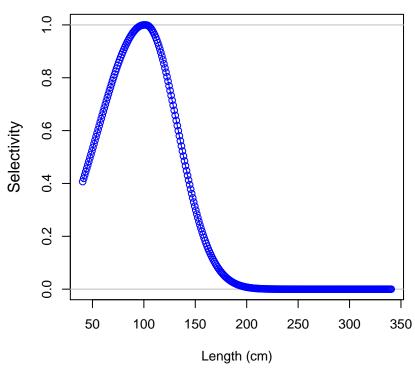
Male ending year selectivity for S6\_JPN\_OBS





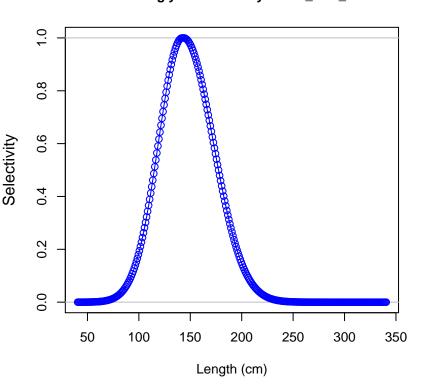
## Female ending year selectivity for S8\_MEX

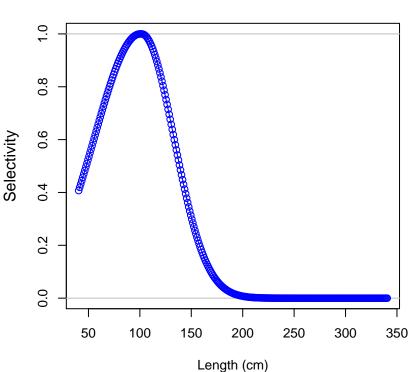


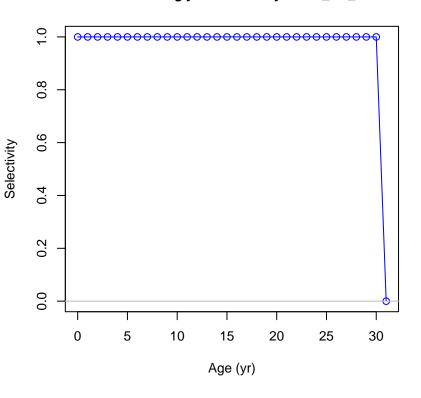


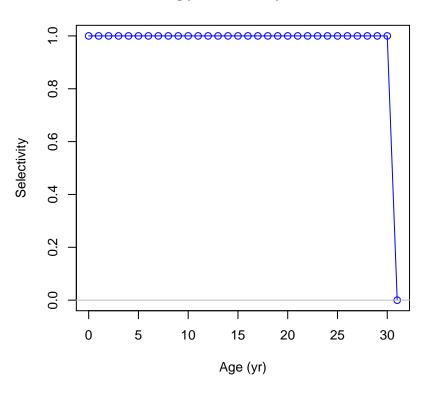
Male ending year selectivity for S7\_JPN\_GEO

Male ending year selectivity for S8\_MEX









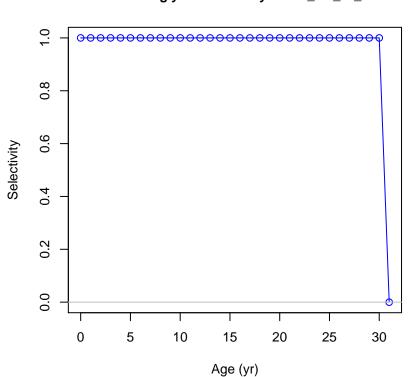
Male ending year selectivity for F1\_US\_CA

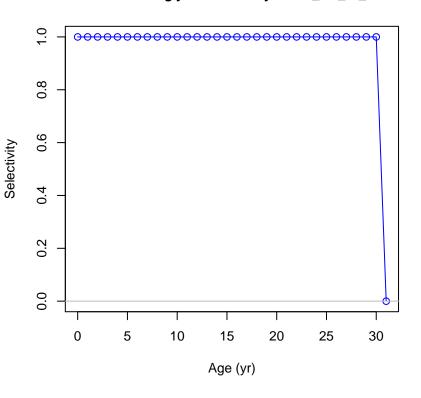
Selectivity

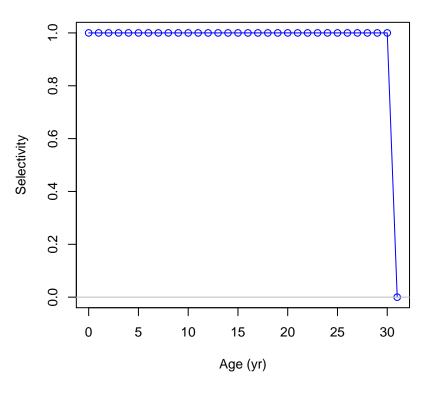
0.1

Age (yr)

Male ending year selectivity for F2\_US\_HI\_SS



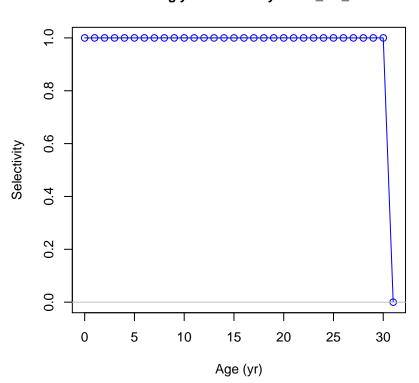


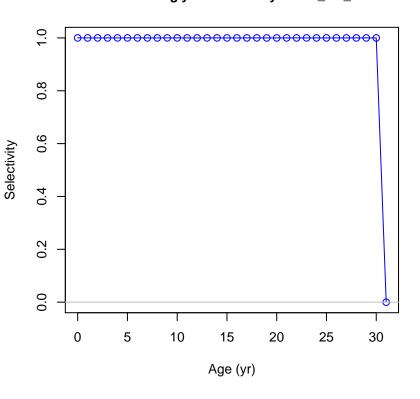


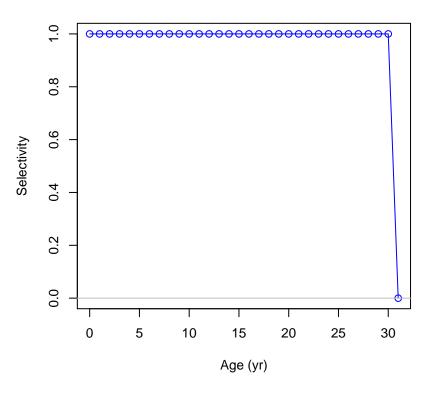
Male ending year selectivity for F3\_US\_HI\_DS

1.0 0.8 9.0 Selectivity 0.4 0.2 0.0 0 5 10 15 20 25 30 Age (yr)

Male ending year selectivity for F4\_US\_DGN



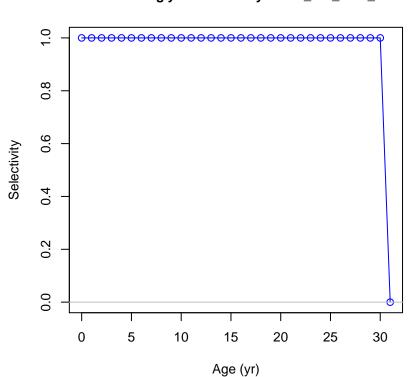




Male ending year selectivity for F5\_US\_REC

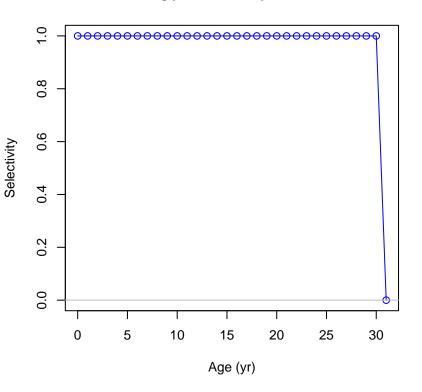
1.0 0.8 9.0 Selectivity 0.4 0.2 0.0 0 5 10 15 20 25 30 Age (yr)

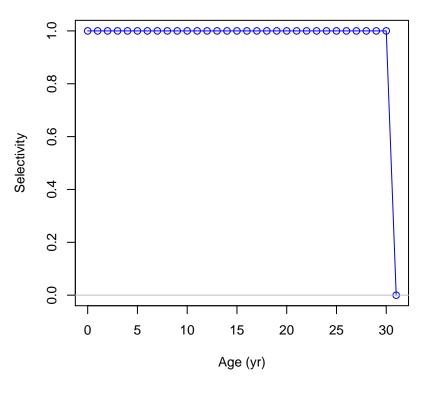
Male ending year selectivity for F6\_TW\_LRG\_N





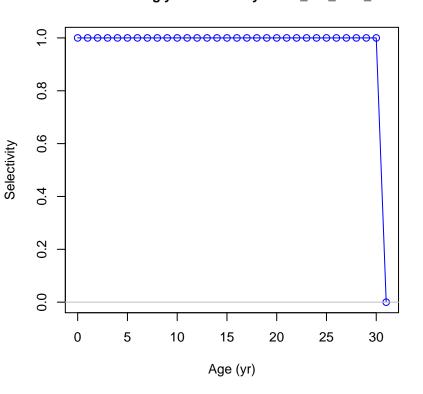
## Female ending year selectivity for F8\_TW\_SML

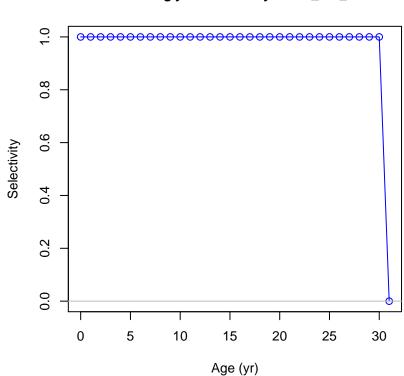


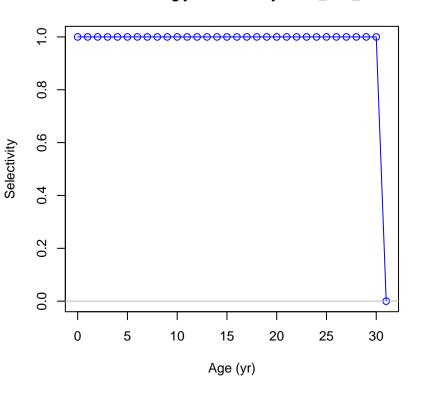


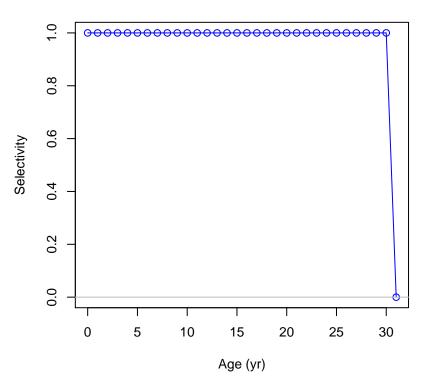
Male ending year selectivity for F7\_TW\_LRG\_S

Male ending year selectivity for F8\_TW\_SML





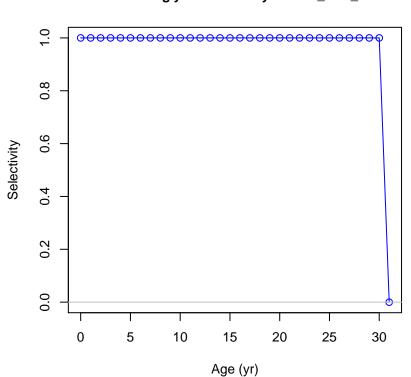




Male ending year selectivity for F9\_JPN\_SS

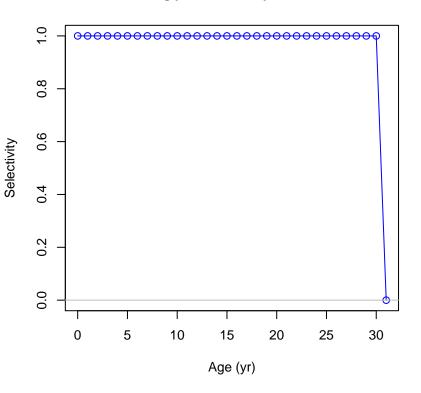
1.0 0.8 9.0 Selectivity 0.4 0.2 0.0 0 5 10 15 20 25 30 Age (yr)

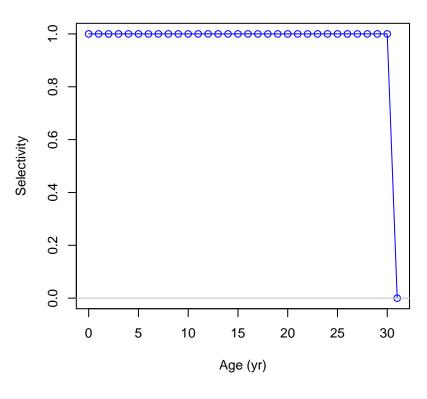
Male ending year selectivity for F10\_JPN\_DS





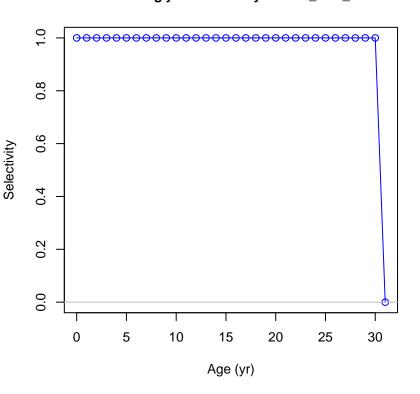
## Female ending year selectivity for F12\_JPN\_DFN

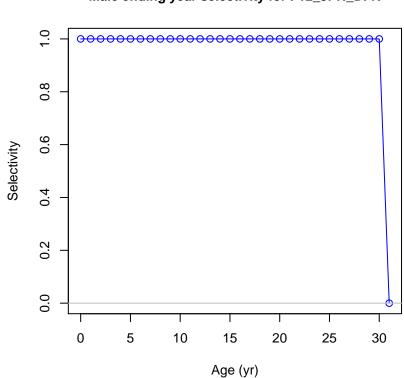




Male ending year selectivity for F11\_JPN\_CST

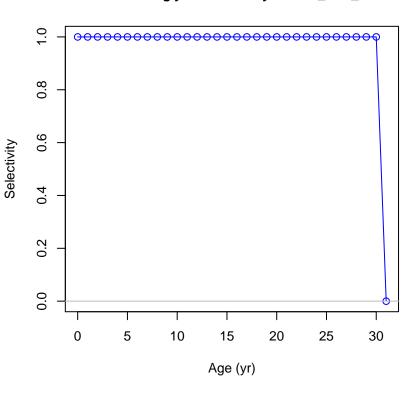
Male ending year selectivity for F12\_JPN\_DFN

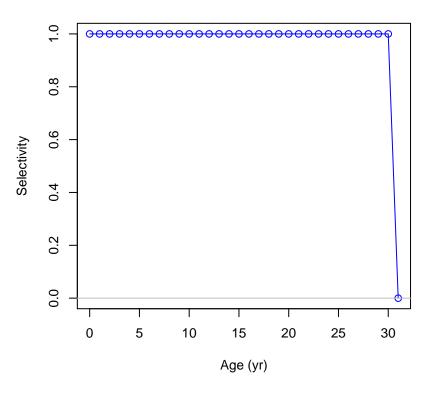






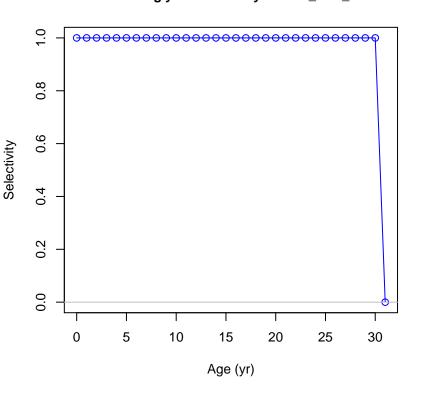
## Female ending year selectivity for F14\_MEX\_NOR

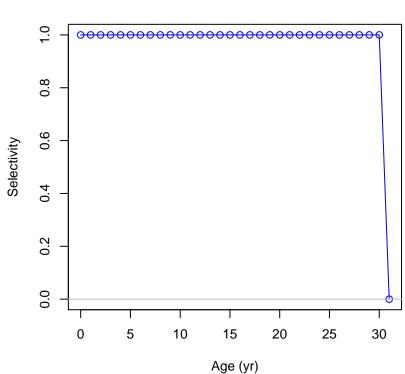




Male ending year selectivity for F13\_JPN\_OTH

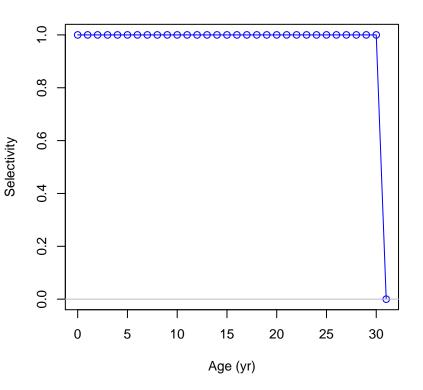
Male ending year selectivity for F14\_MEX\_NOR

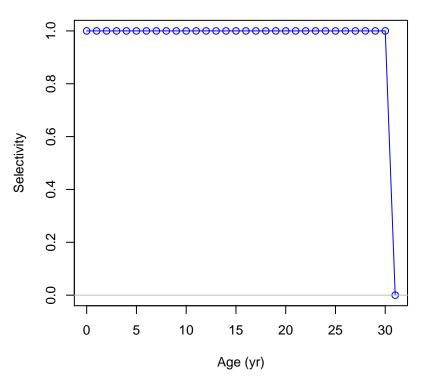






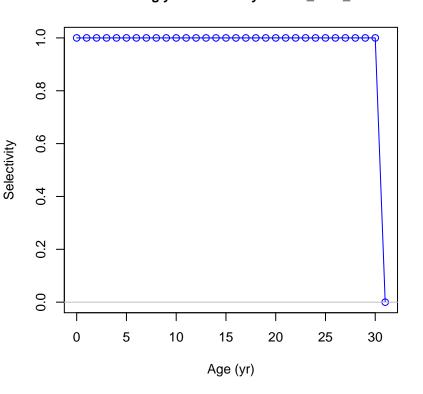
## Female ending year selectivity for F16\_WCPFC

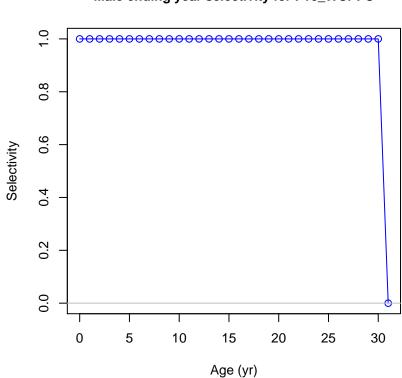




Male ending year selectivity for F15\_MEX\_SOU

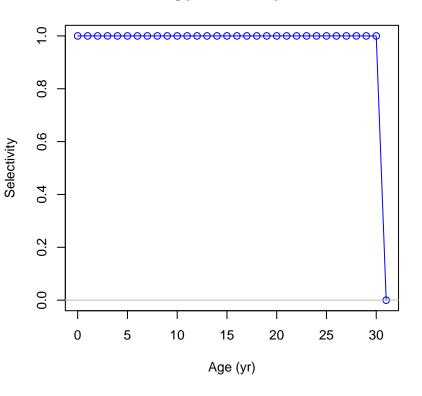
Male ending year selectivity for F16\_WCPFC

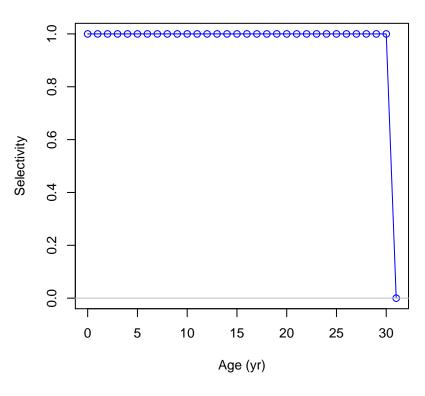






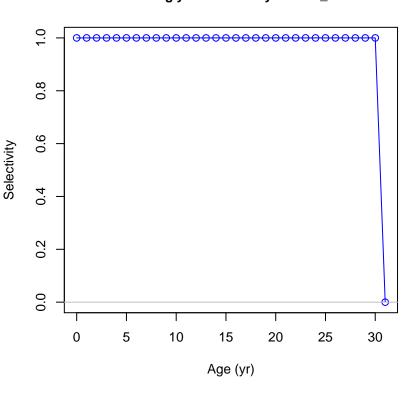
## Female ending year selectivity for F18\_JPN\_SSII

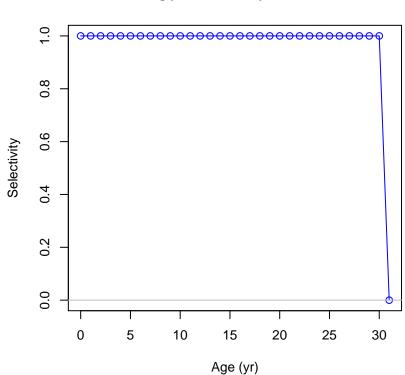


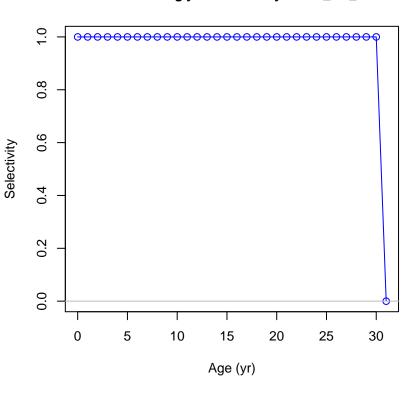


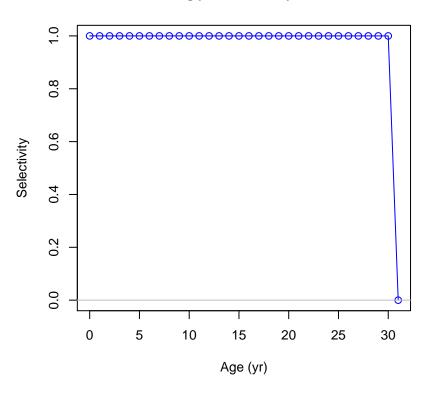
Male ending year selectivity for F17\_IATTC

Male ending year selectivity for F18\_JPN\_SSII









Male ending year selectivity for S1\_US\_SS

Age (yr)

20

25

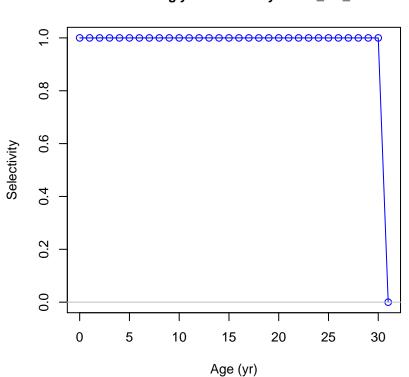
30

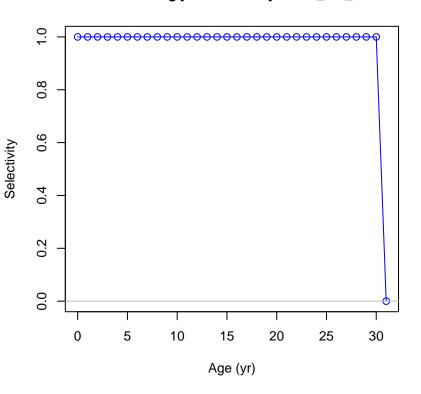
Selectivity

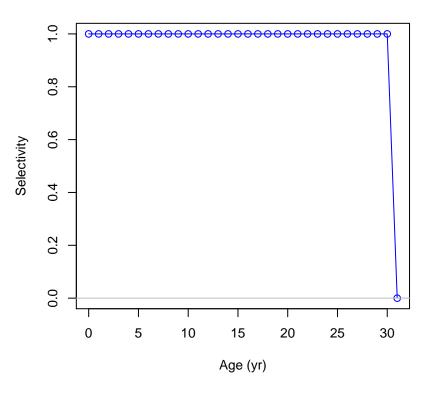
0

5

Male ending year selectivity for S2\_US\_DS



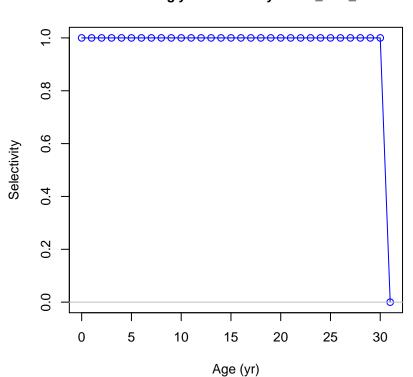


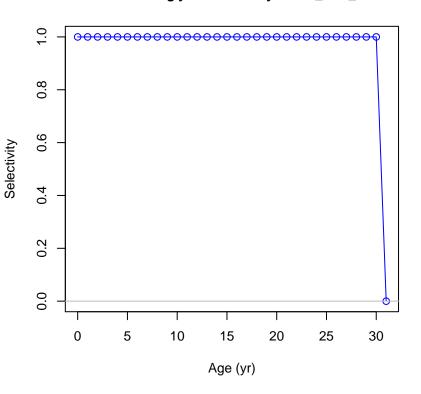


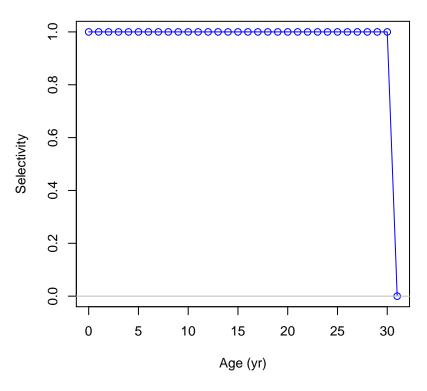
Male ending year selectivity for S3\_TW\_LRG

Selectivity

Male ending year selectivity for S4\_JPN\_SS



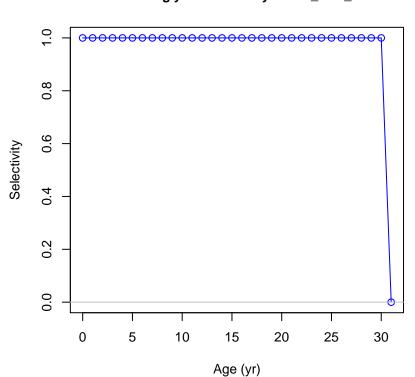




Male ending year selectivity for S5\_JPN\_RTV

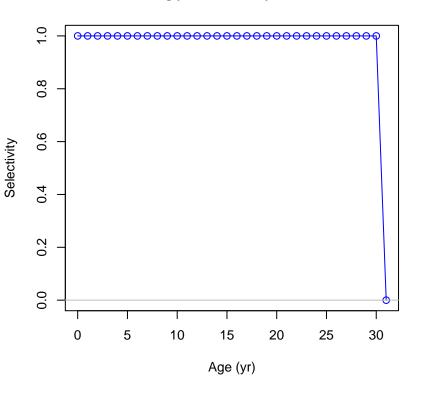
1.0 0.8 9.0 Selectivity 0.4 0.2 0.0 0 5 10 15 20 25 30 Age (yr)

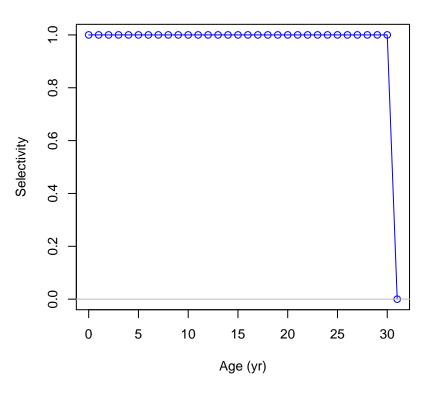
Male ending year selectivity for S6\_JPN\_OBS





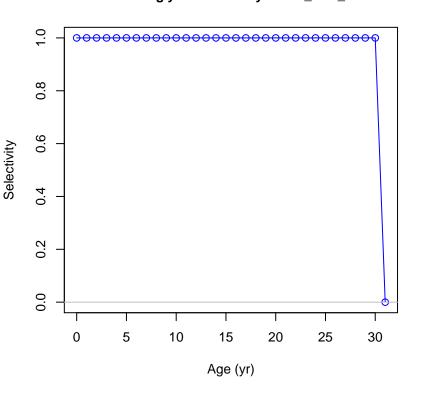
# Female ending year selectivity for S8\_MEX

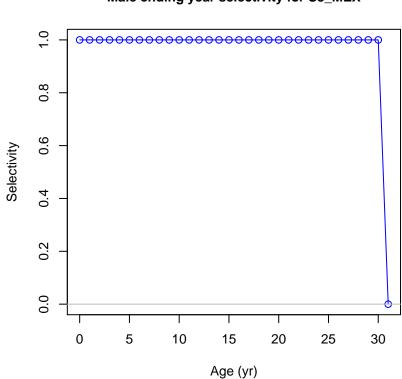




Male ending year selectivity for S7\_JPN\_GEO

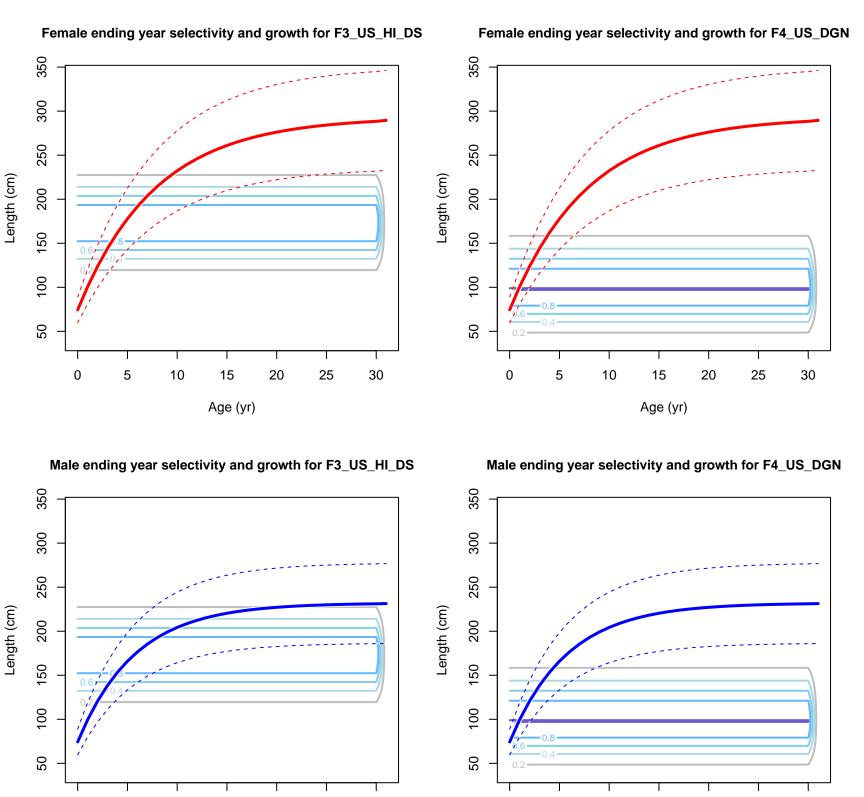
Male ending year selectivity for S8\_MEX





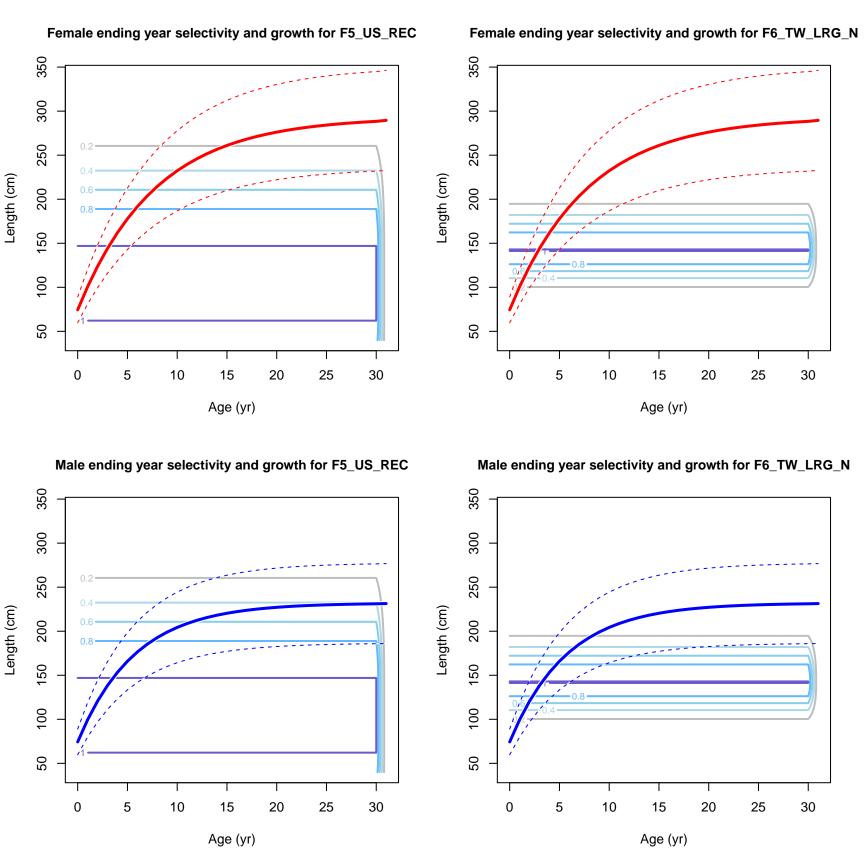
Age (yr)

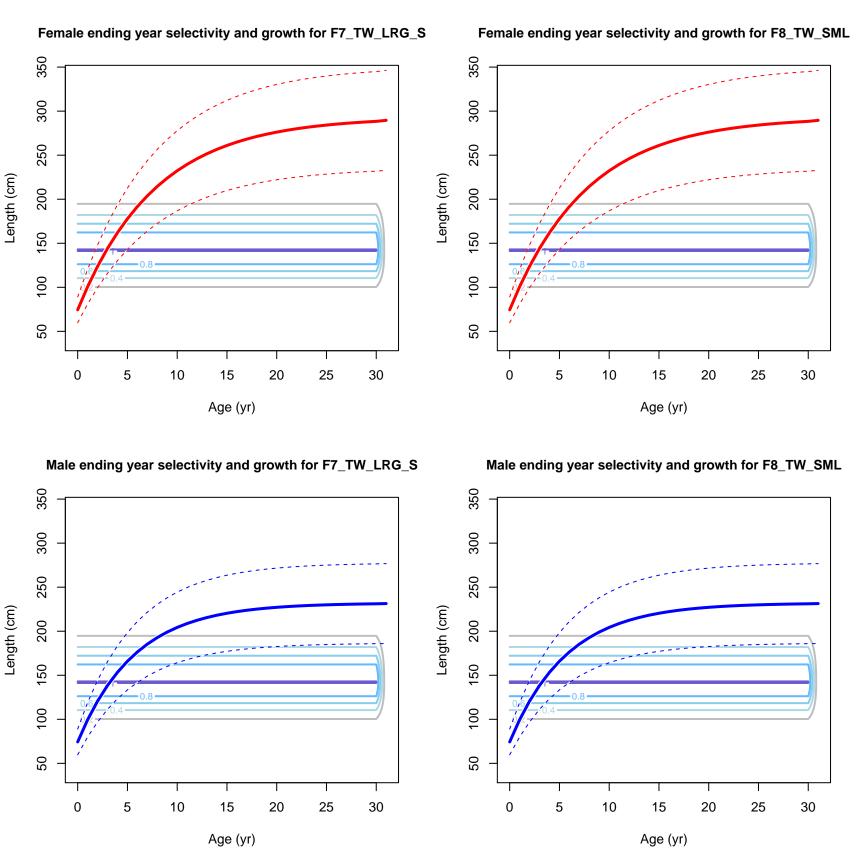
Age (yr)



Age (yr)

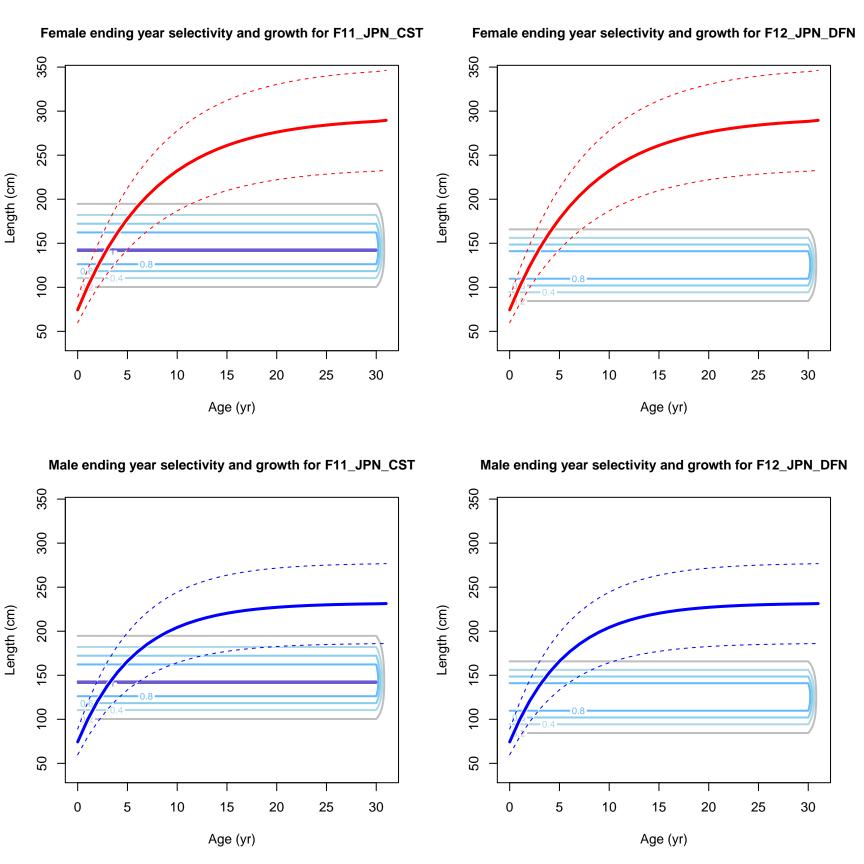
Age (yr)

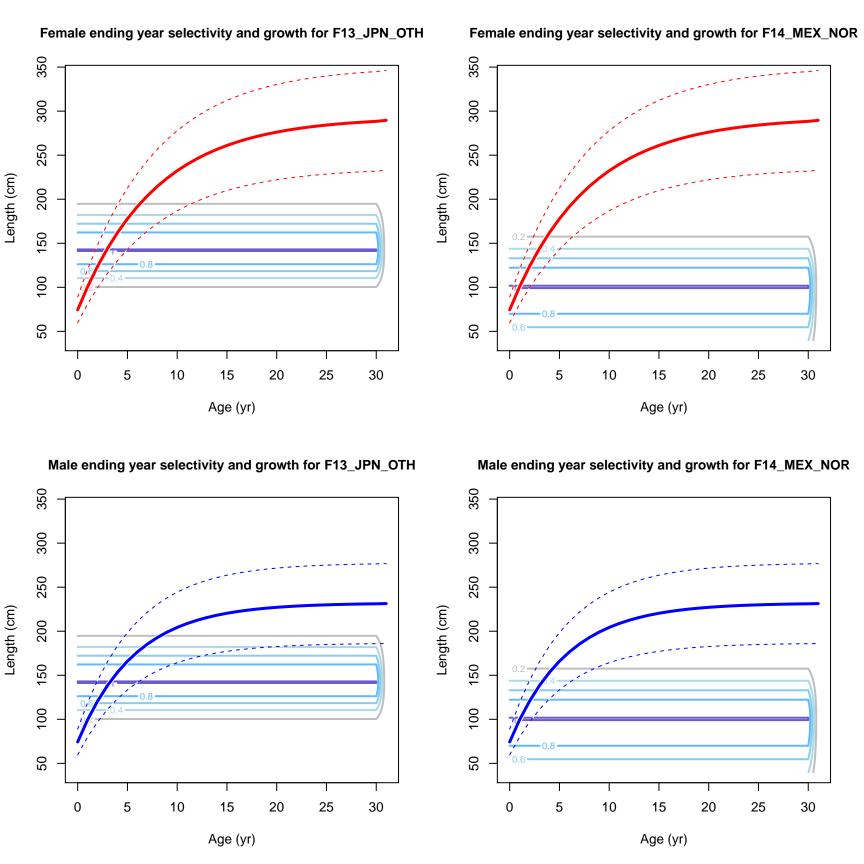




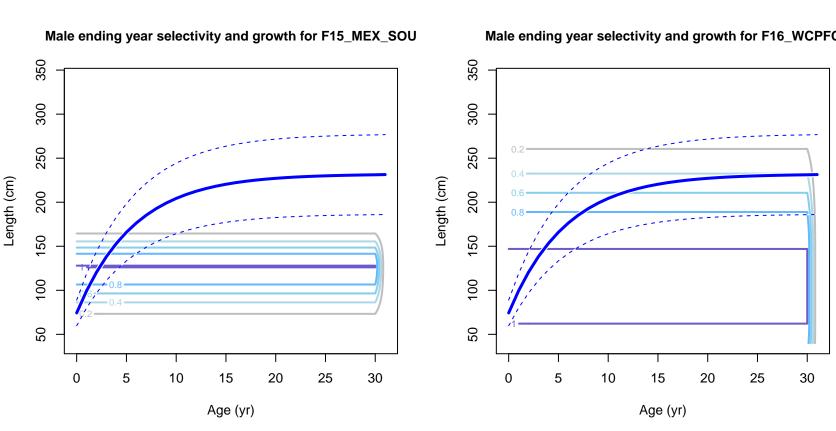
Age (yr)

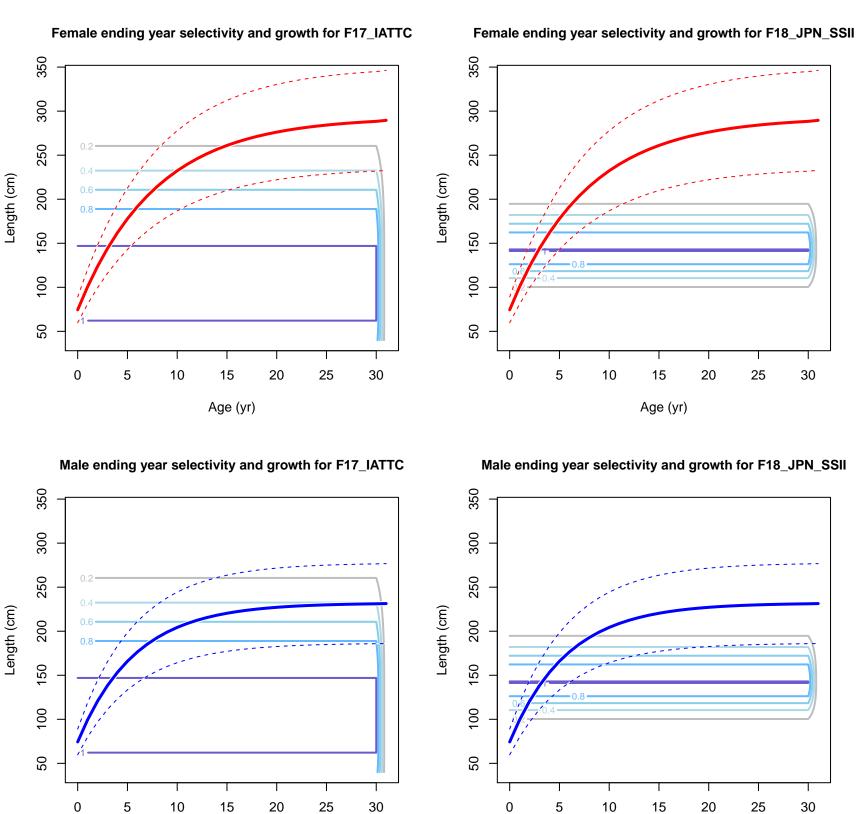
Age (yr)





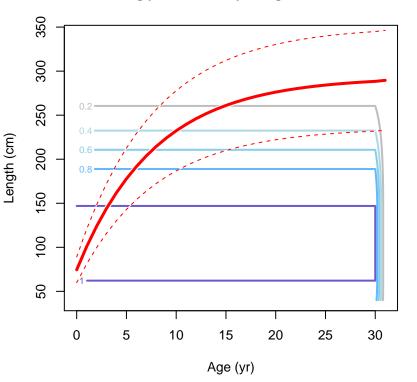
Length (cm)

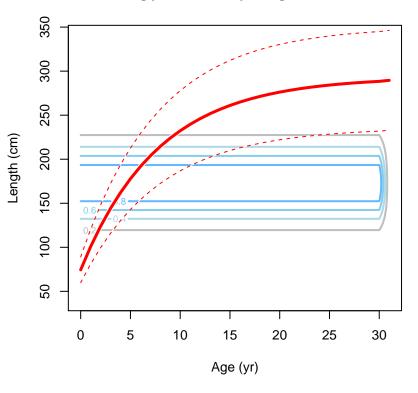




Age (yr)

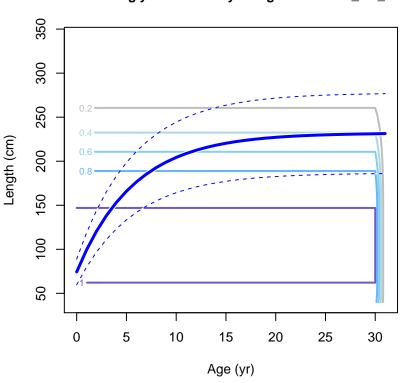
Age (yr)

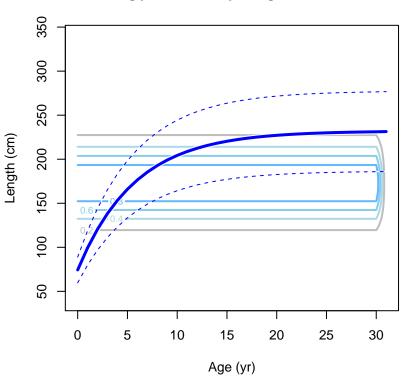




Male ending year selectivity and growth for S1\_US\_SS

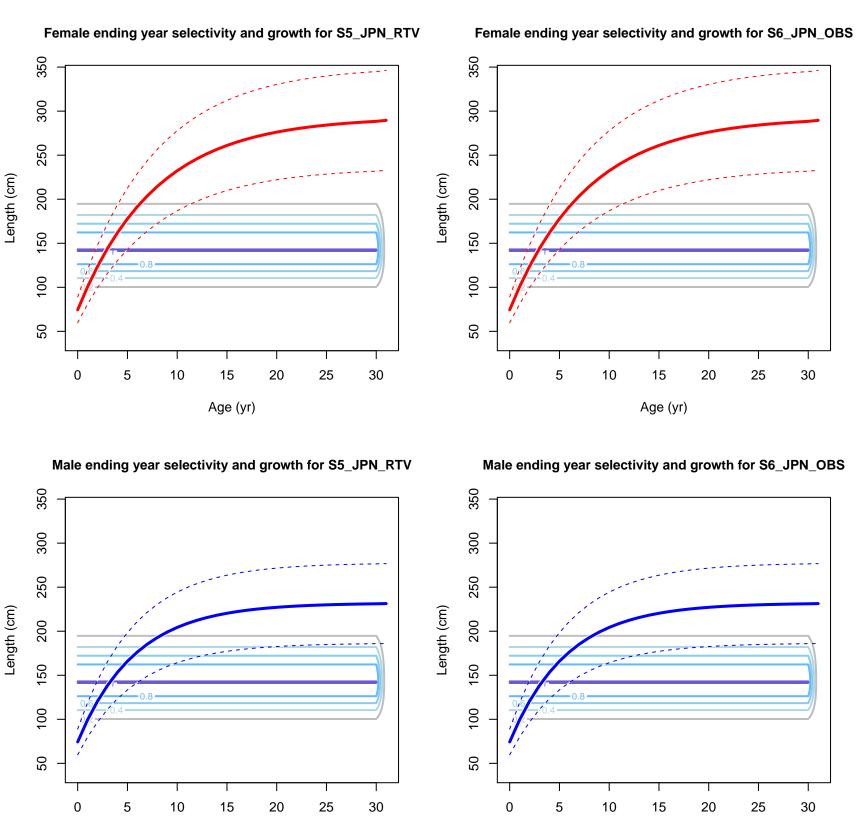
Male ending year selectivity and growth for S2\_US\_DS





Age (yr)

Age (yr)



Age (yr)

Age (yr)

Age (yr)

Age (yr)

