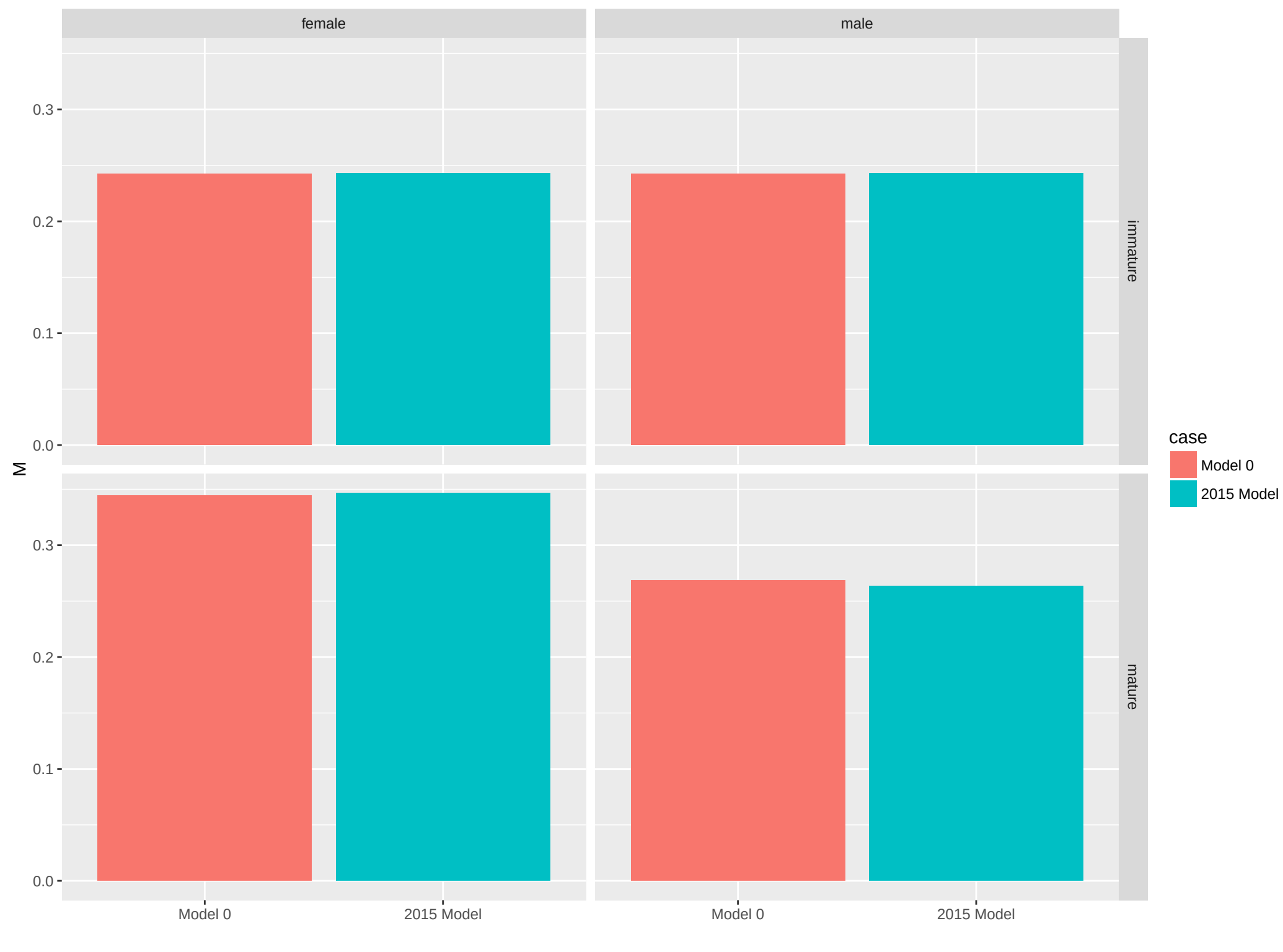
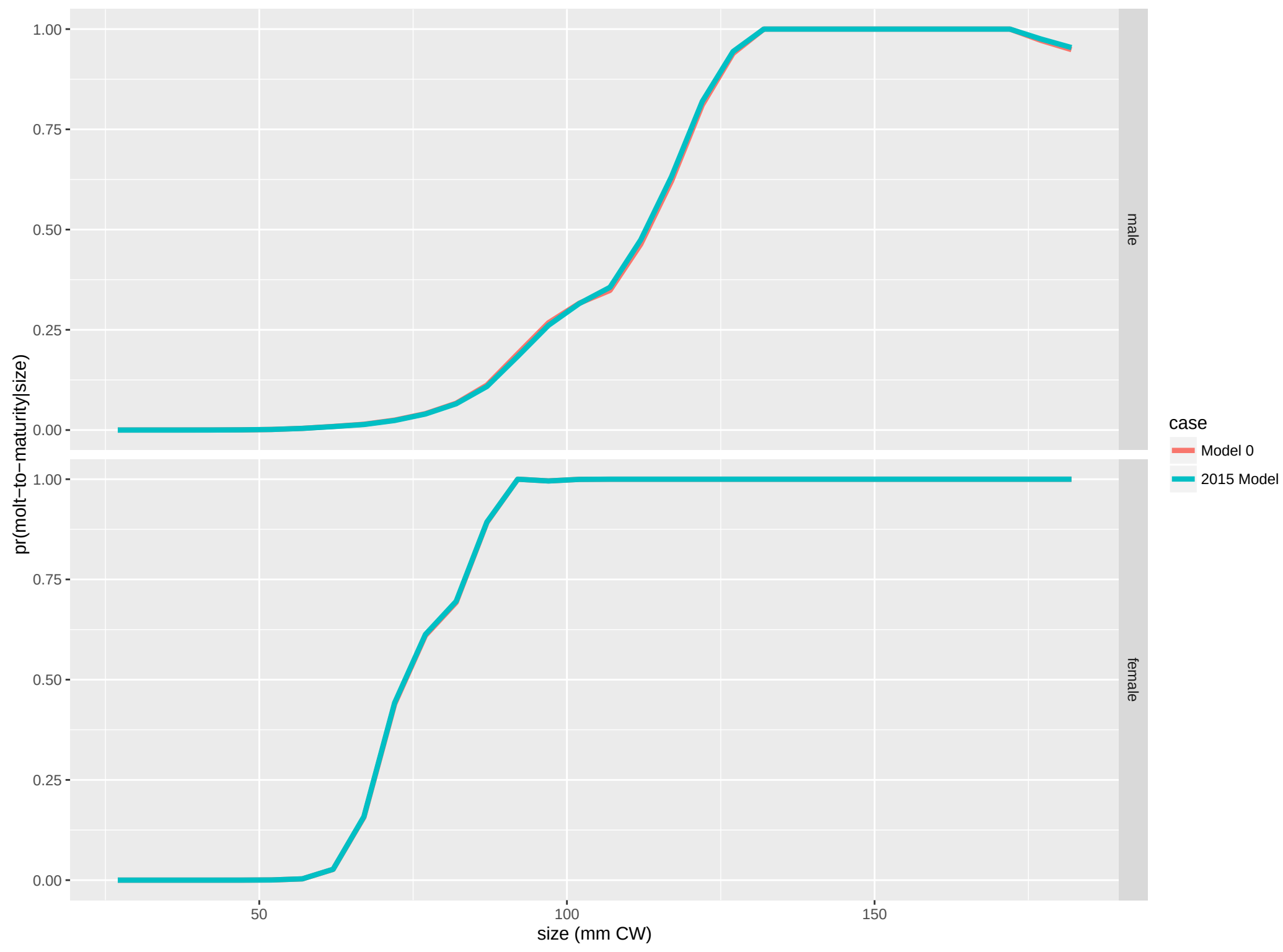
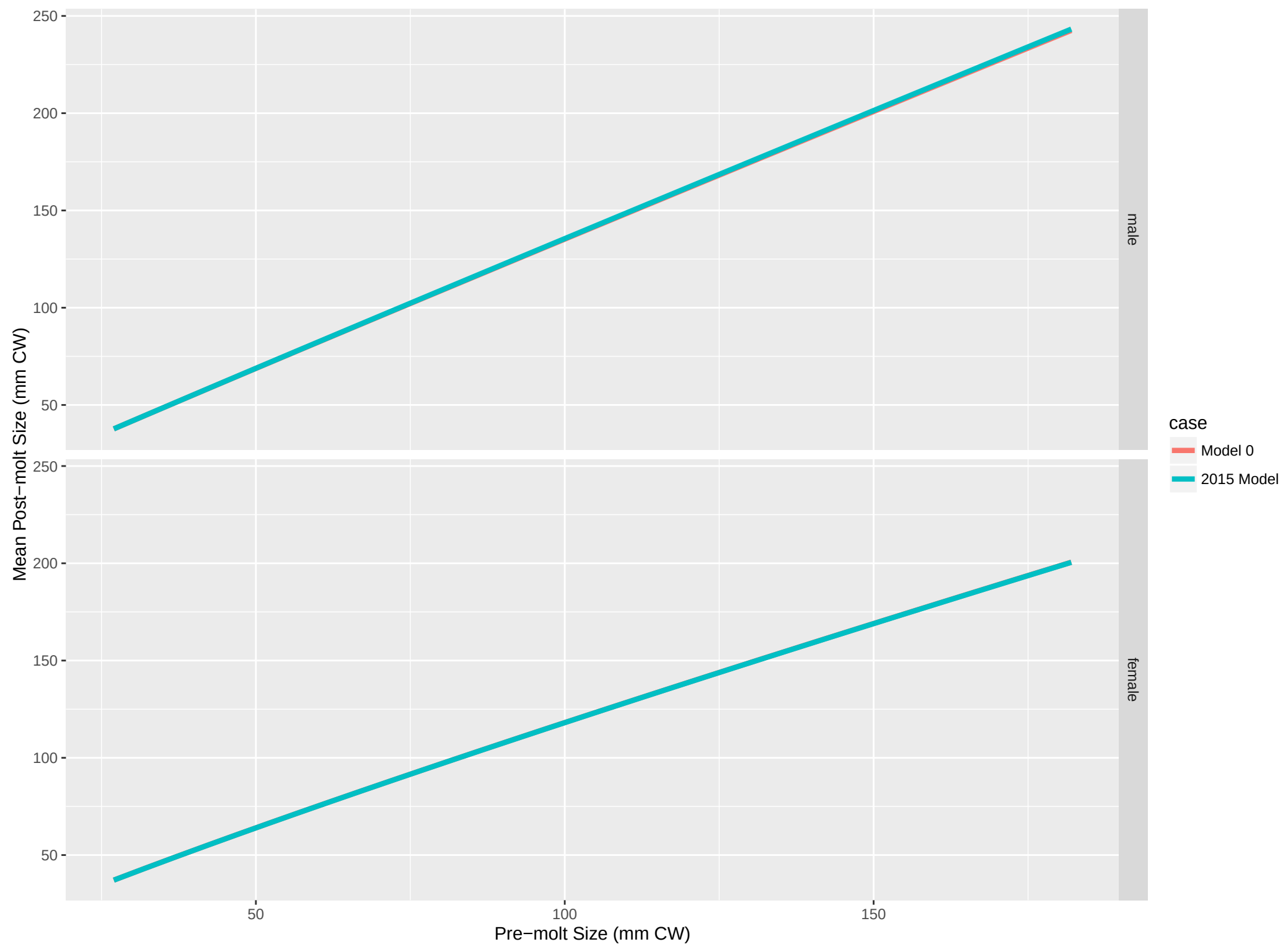
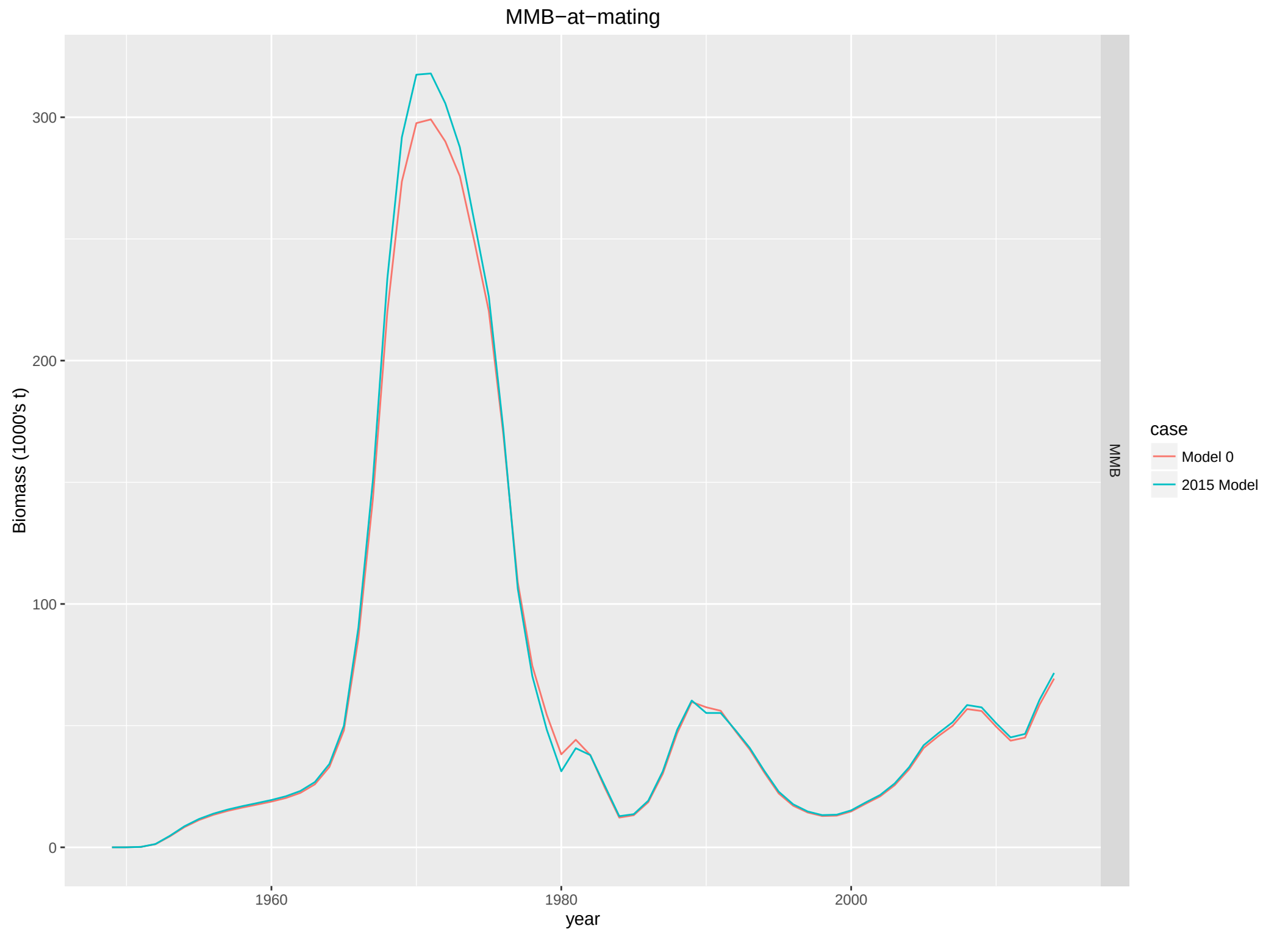
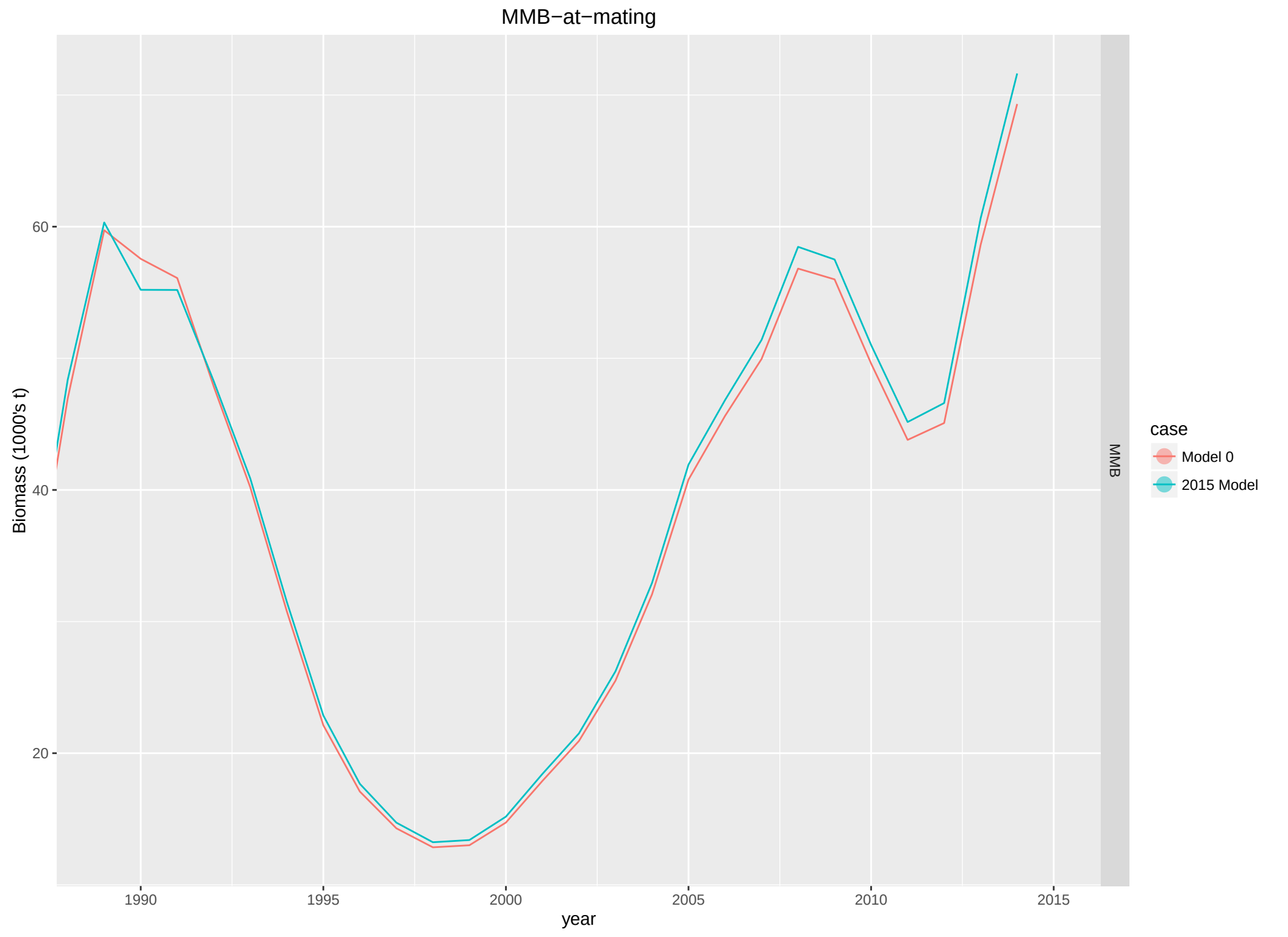
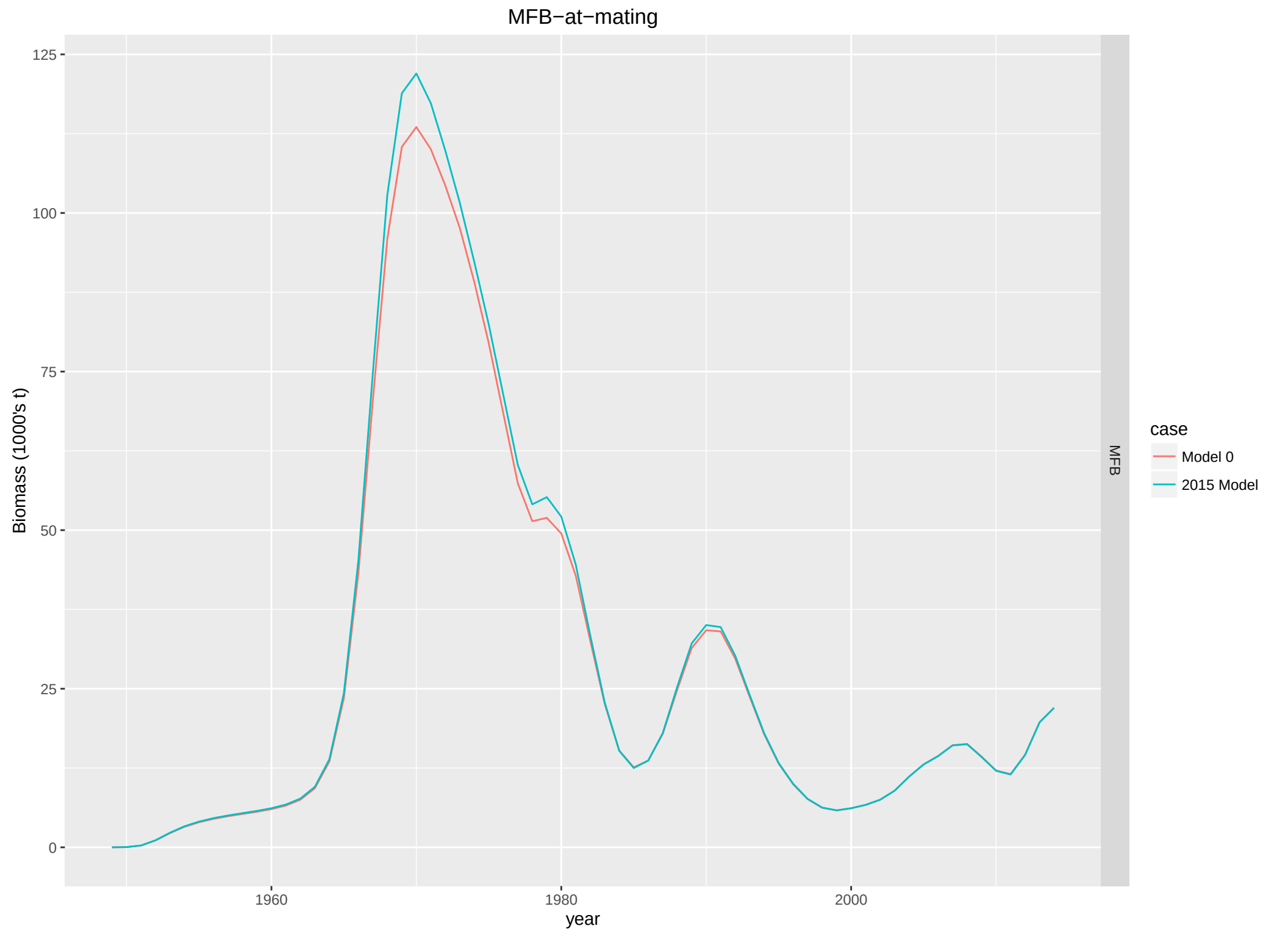

female
male
immature
mature
M
0.0
0.1
0.2
0.3
Model 0
2015 Model
case
Model 0
2015 Model

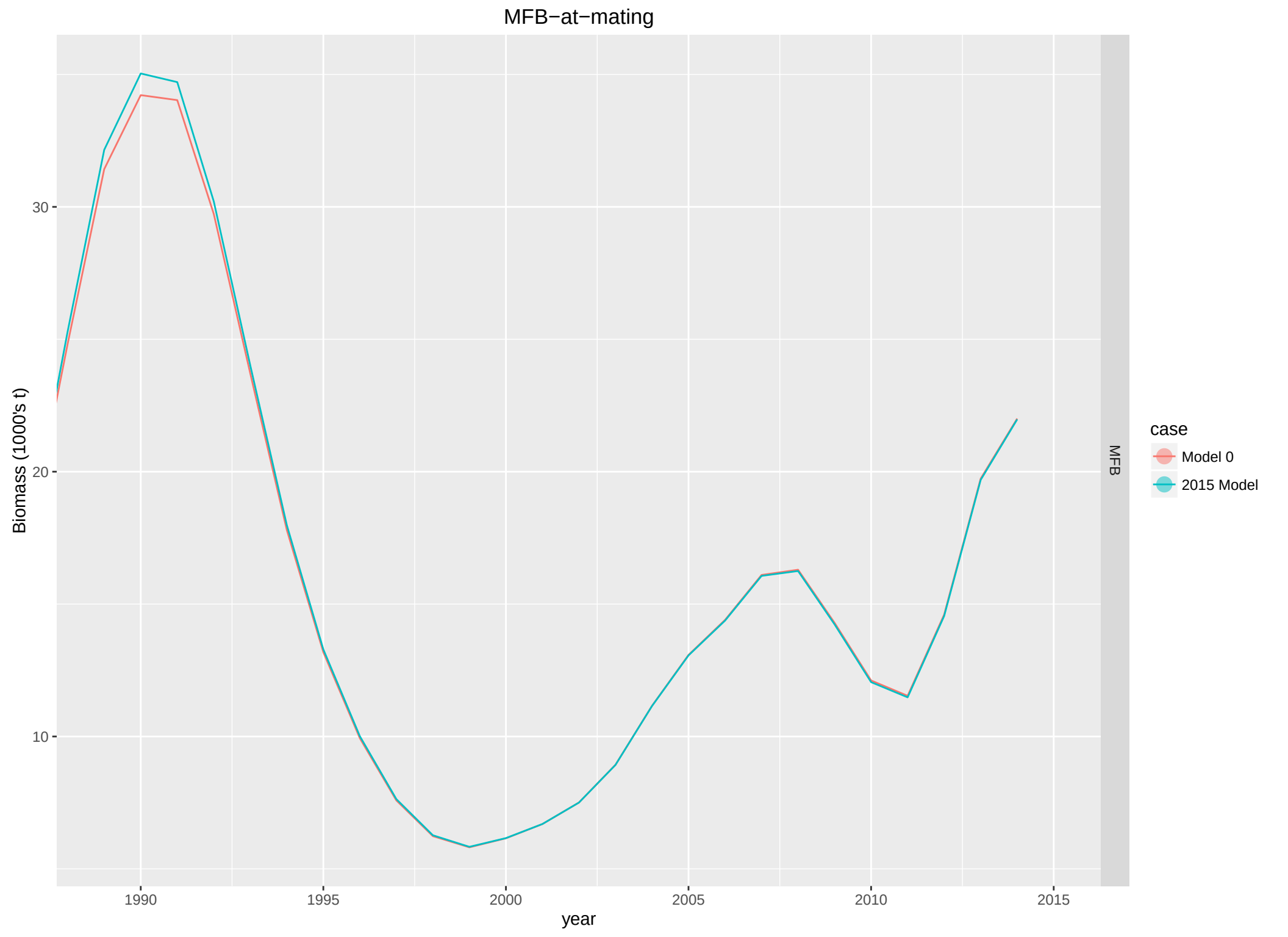

1.00
0.75
0.50
0.25
0.00
male
female
pr(molt−to−maturity|size)
50
100
150
size (mm CW)
case
Model 0
2015 Model

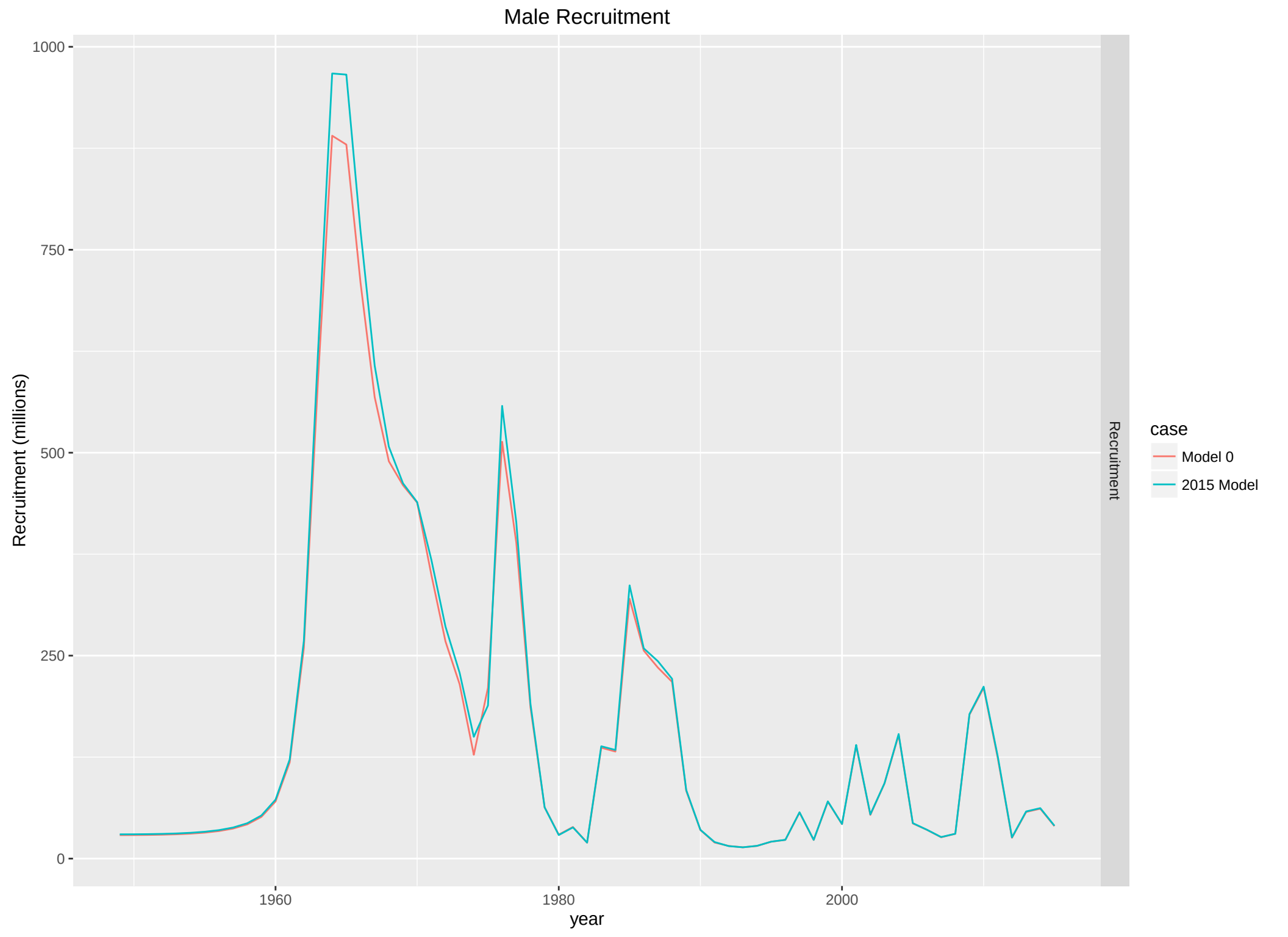

Mean Post−molt Size (mm CW)
250
200
150
100
50
male
female
50
100
150
Pre−molt Size (mm CW)
case
Model 0
2015 Model

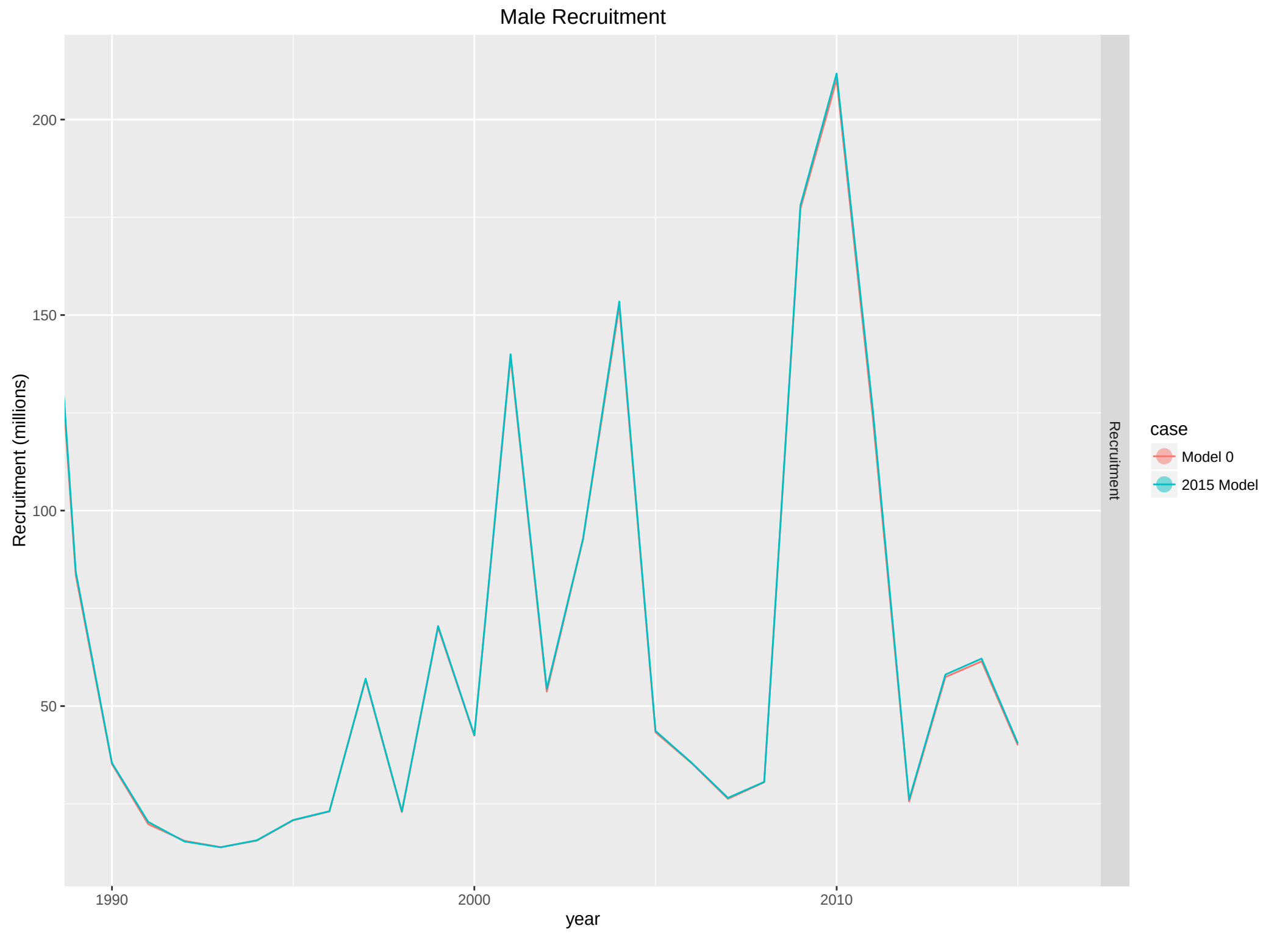

MMB−at−mating
Biomass (1000's t)
300
200
100
0
1960
1980
2000
year
MMB
case
Model 0
2015 Model

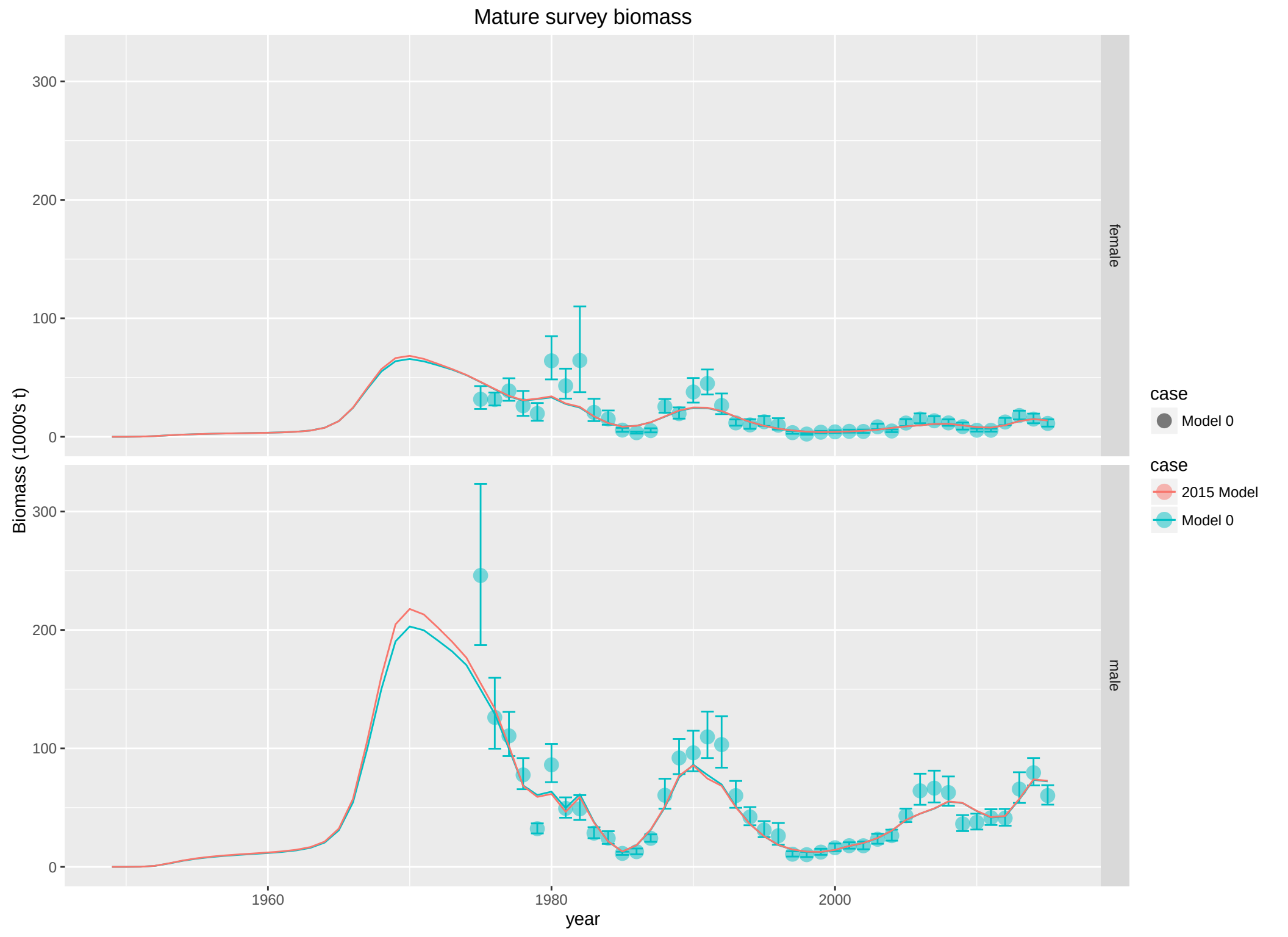

MMB−at−mating
Biomass (1000's t)
60
40
20
1990
1995
2000
2005
2010
2015
year
MMB
case
Model 0
2015 Model

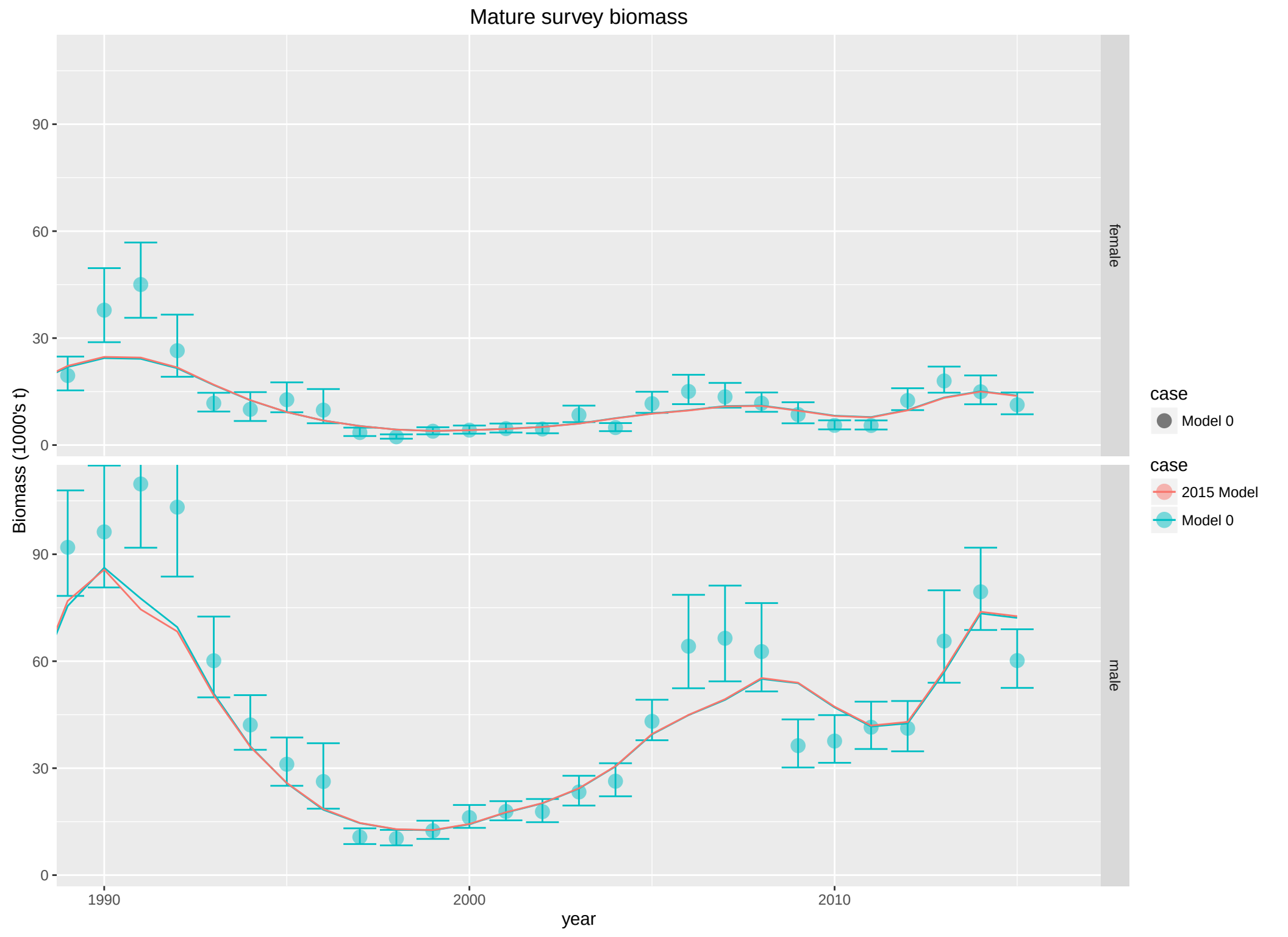

MFB−at−mating
125
100
75
50
25
0
Biomass (1000's t)
1960
1980
2000
year
MFB
case
Model 0
2015 Model

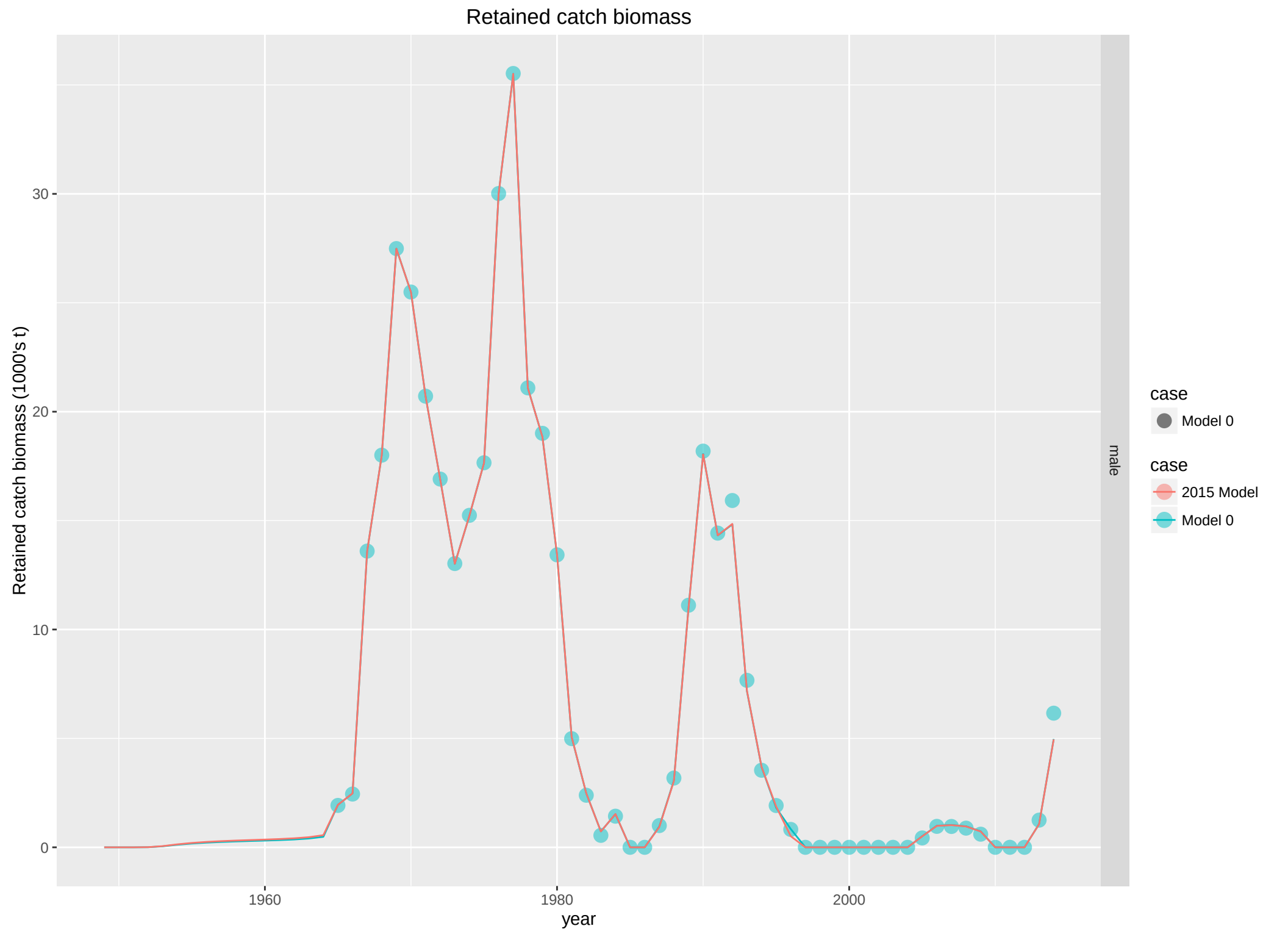

MFB−at−mating
Biomass (1000's t)
30
20
10
1990
1995
2000
2005
2010
2015
year
MFB
case
Model 0
2015 Model

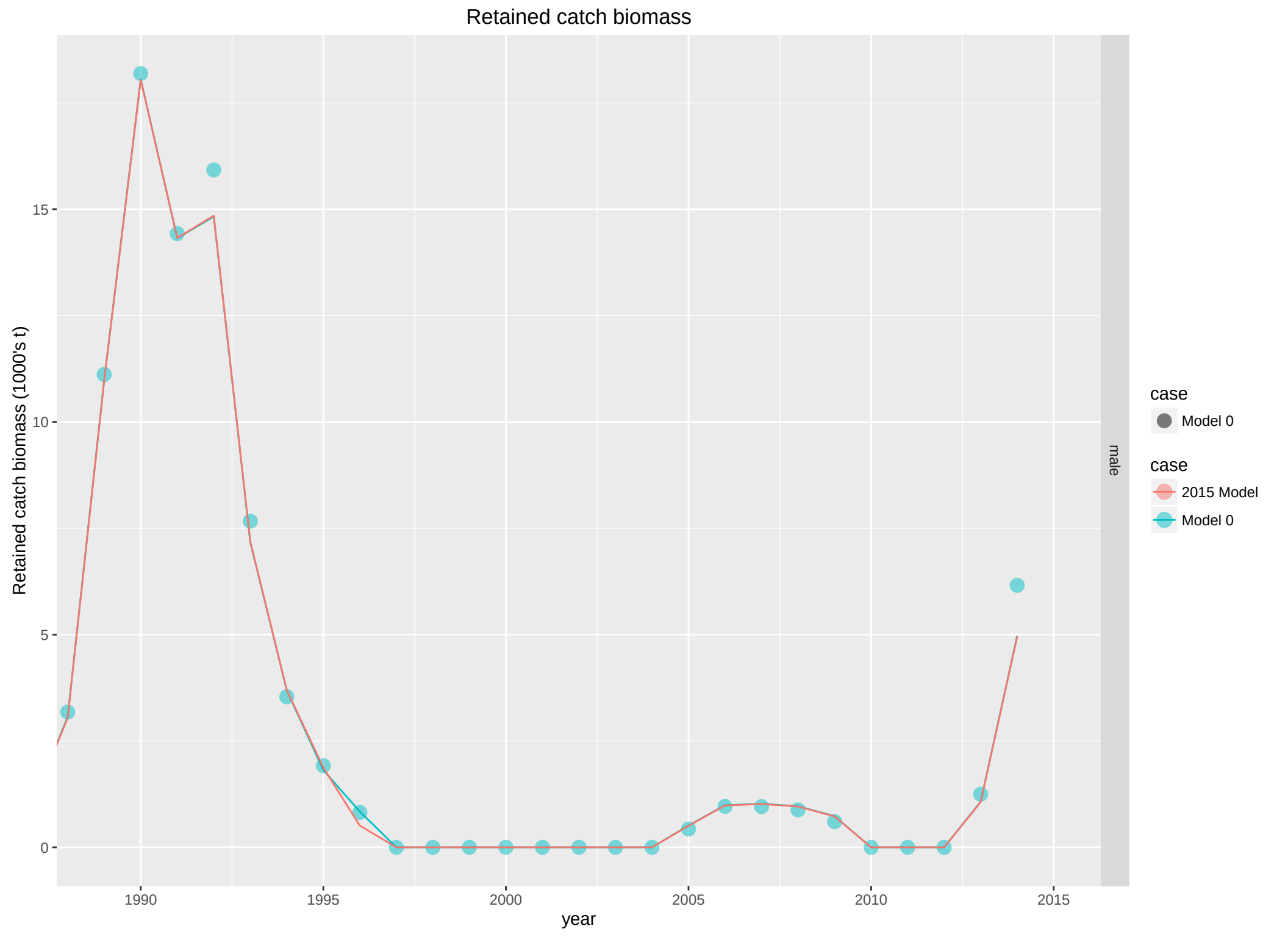

Male Recruitment
1000
750
500
250
0
Recruitment (millions)
1960
1980
2000
year
Recruitment
case
Model 0
2015 Model

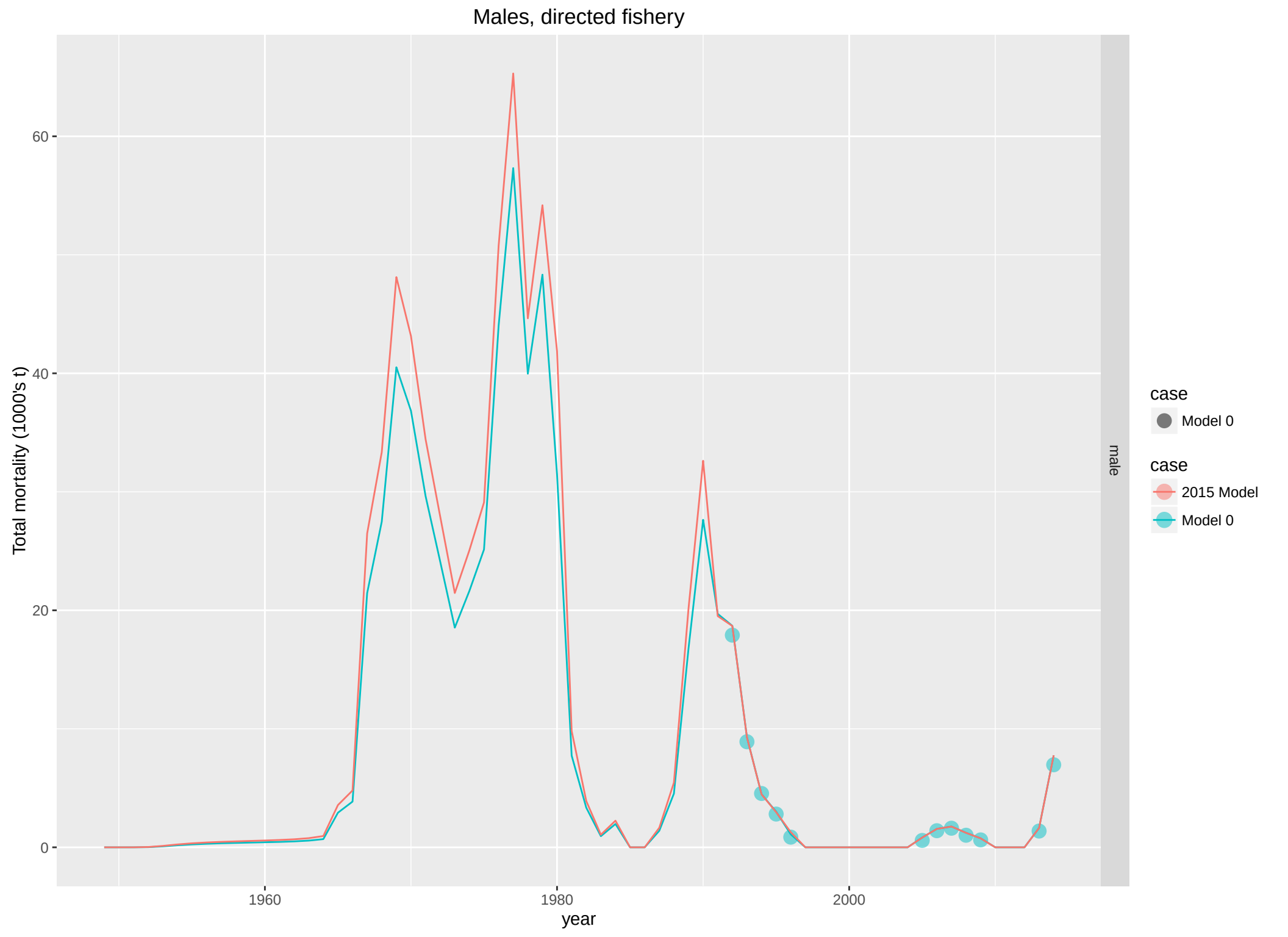

Male Recruitment
Recruitment (millions)
200
150
100
50
1990
2000
2010
year
Recruitment
case
Model 0
2015 Model

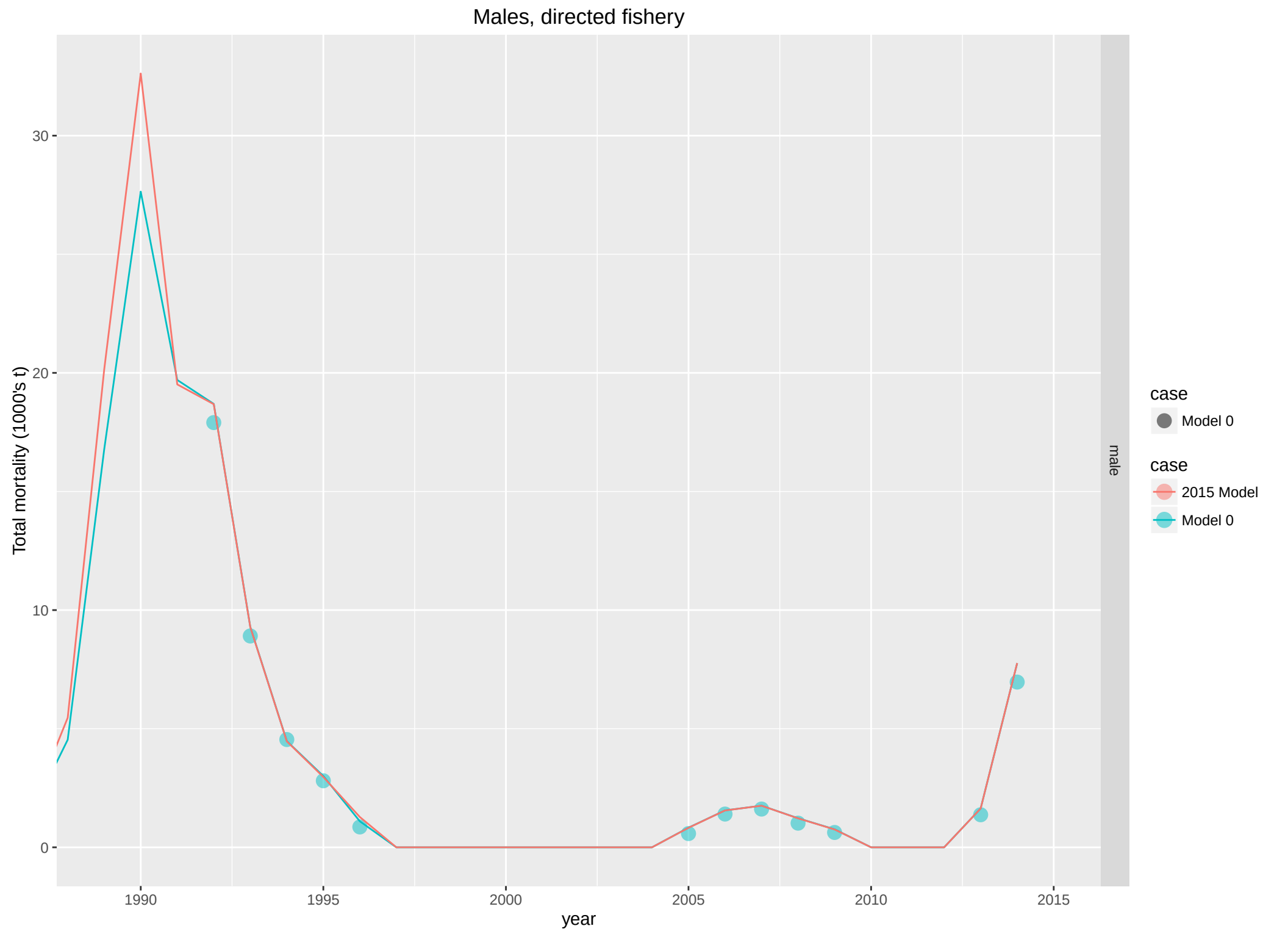

Mature survey biomass
Biomass (1000's t)
300
200
100
0
female
male
1960
1980
2000
year
case
Model 0
case
2015 Model
Model 0

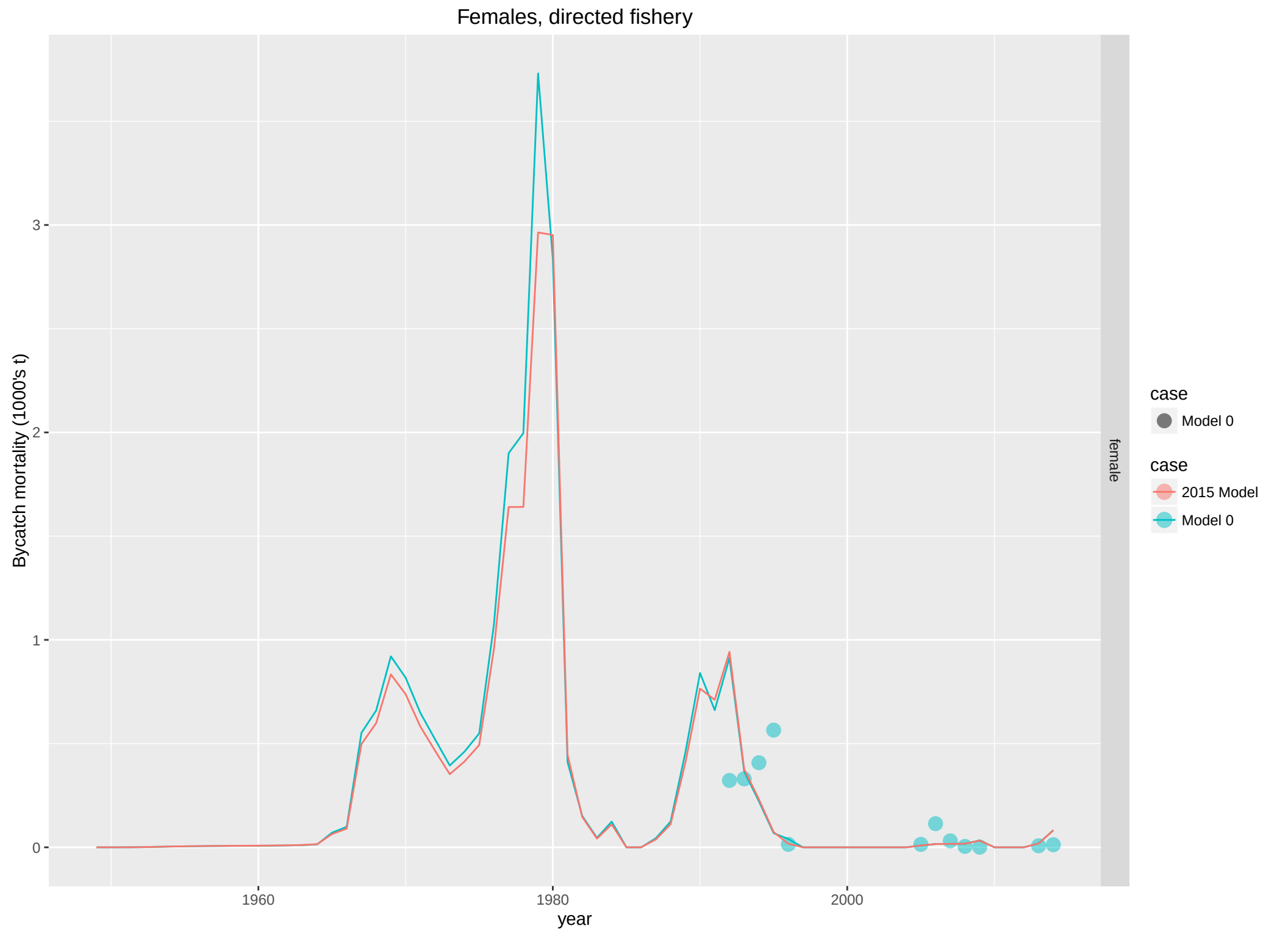

Mature survey biomass
Biomass (1000's t)
90
60
30
0
female
male
1990
2000
2010
year
case
Model 0
case
2015 Model
Model 0

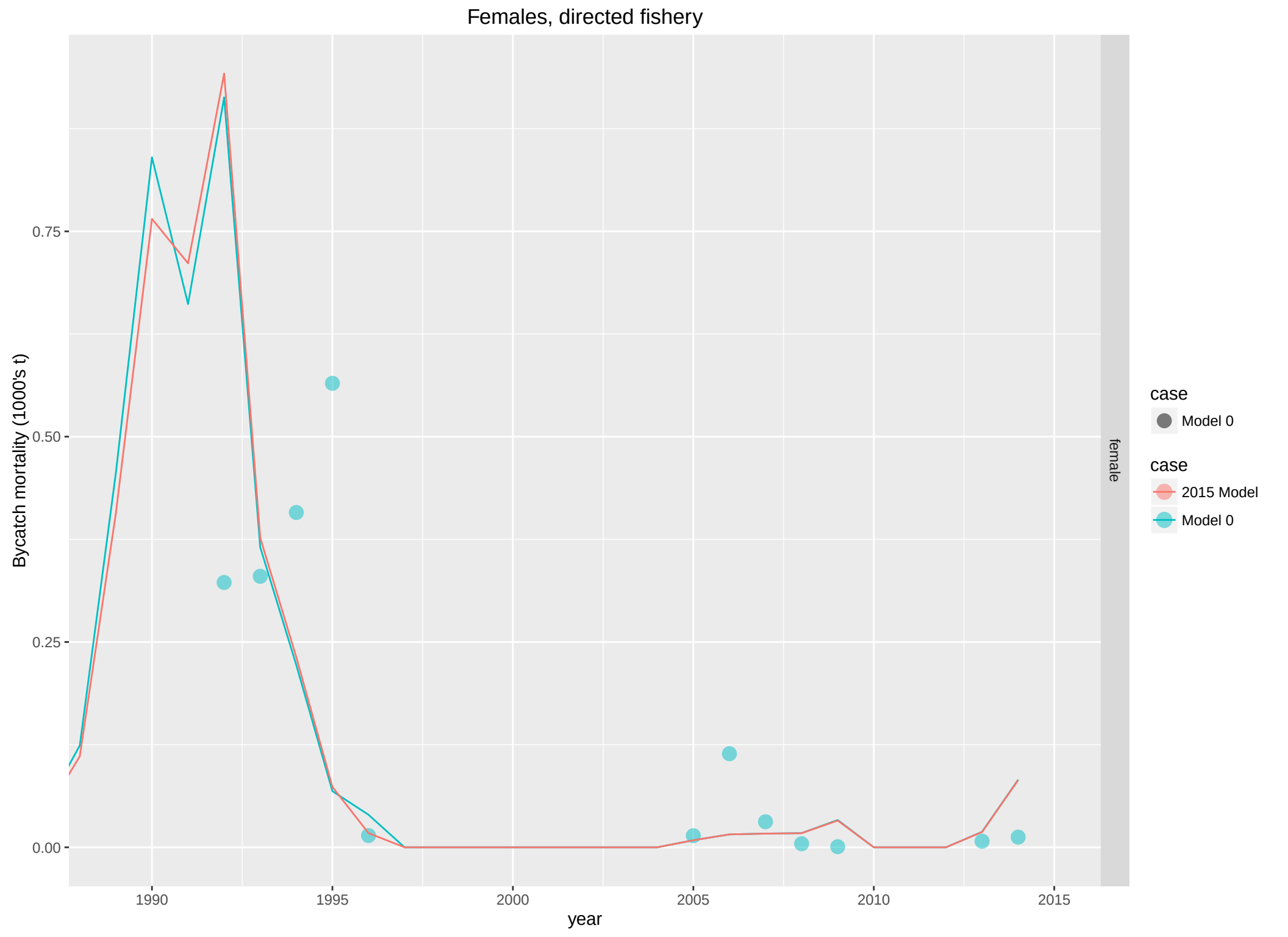

Retained catch biomass
Retained catch biomass (1000's t)
30
20
10
0
1960
1980
2000
year
male
case
Model 0
case
2015 Model
Model 0

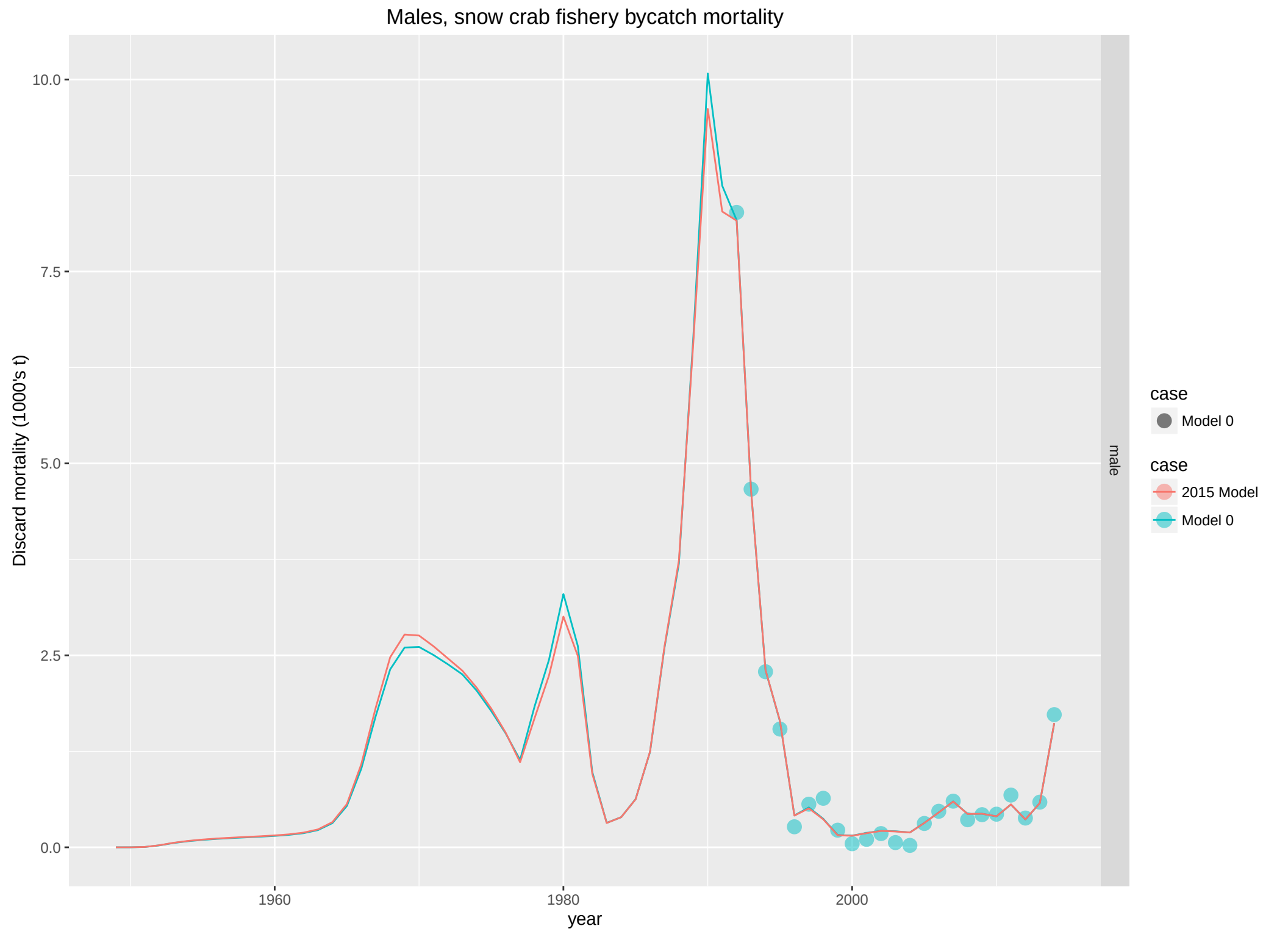

Retained catch biomass
Retained catch biomass (1000's t)
15
10
5
0
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
case
2015 Model
Model 0

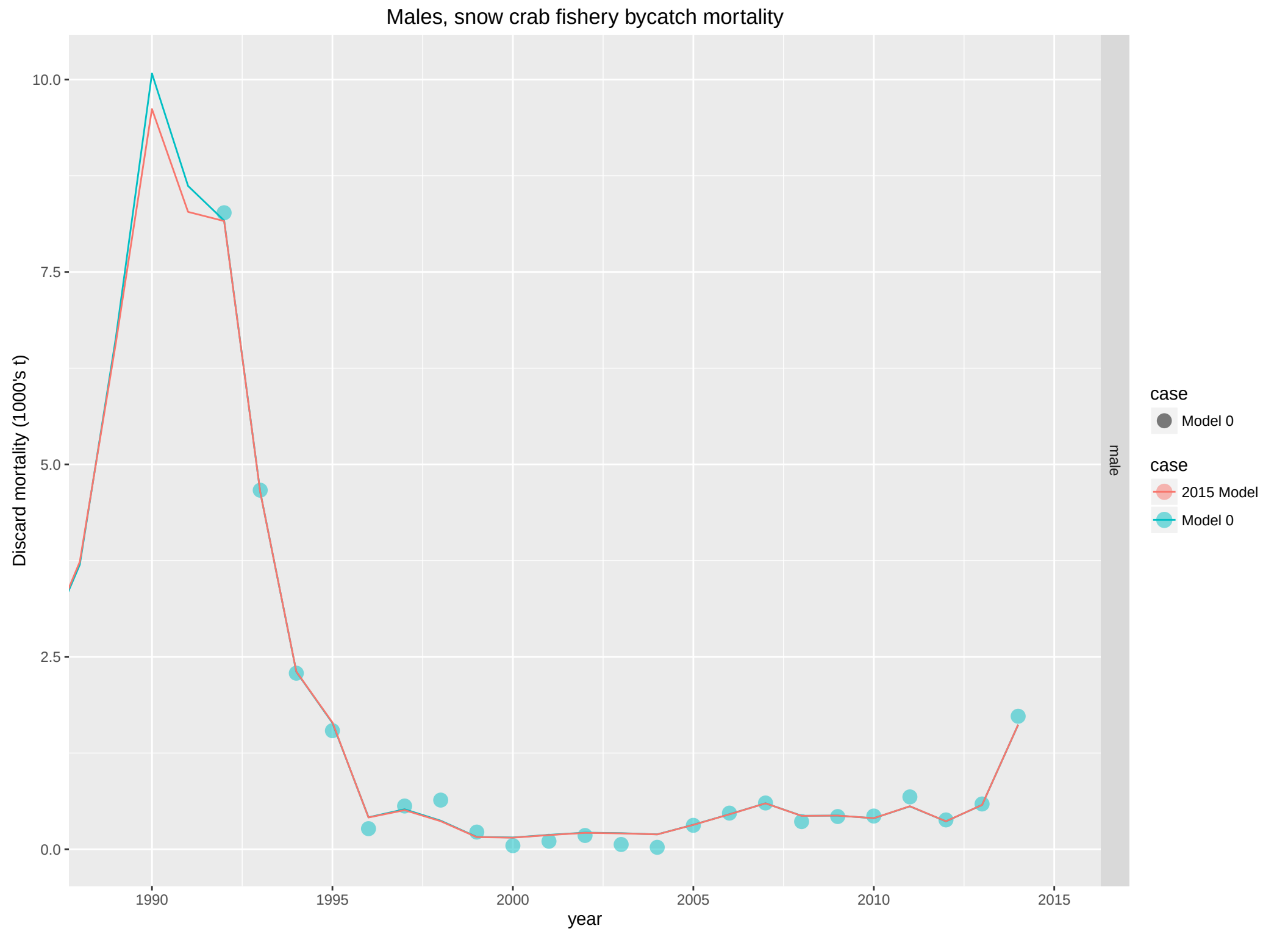

Males, directed fishery
Total mortality (1000's t)
60
40
20
0
1960
1980
2000
year
male
case
Model 0
case
2015 Model
Model 0

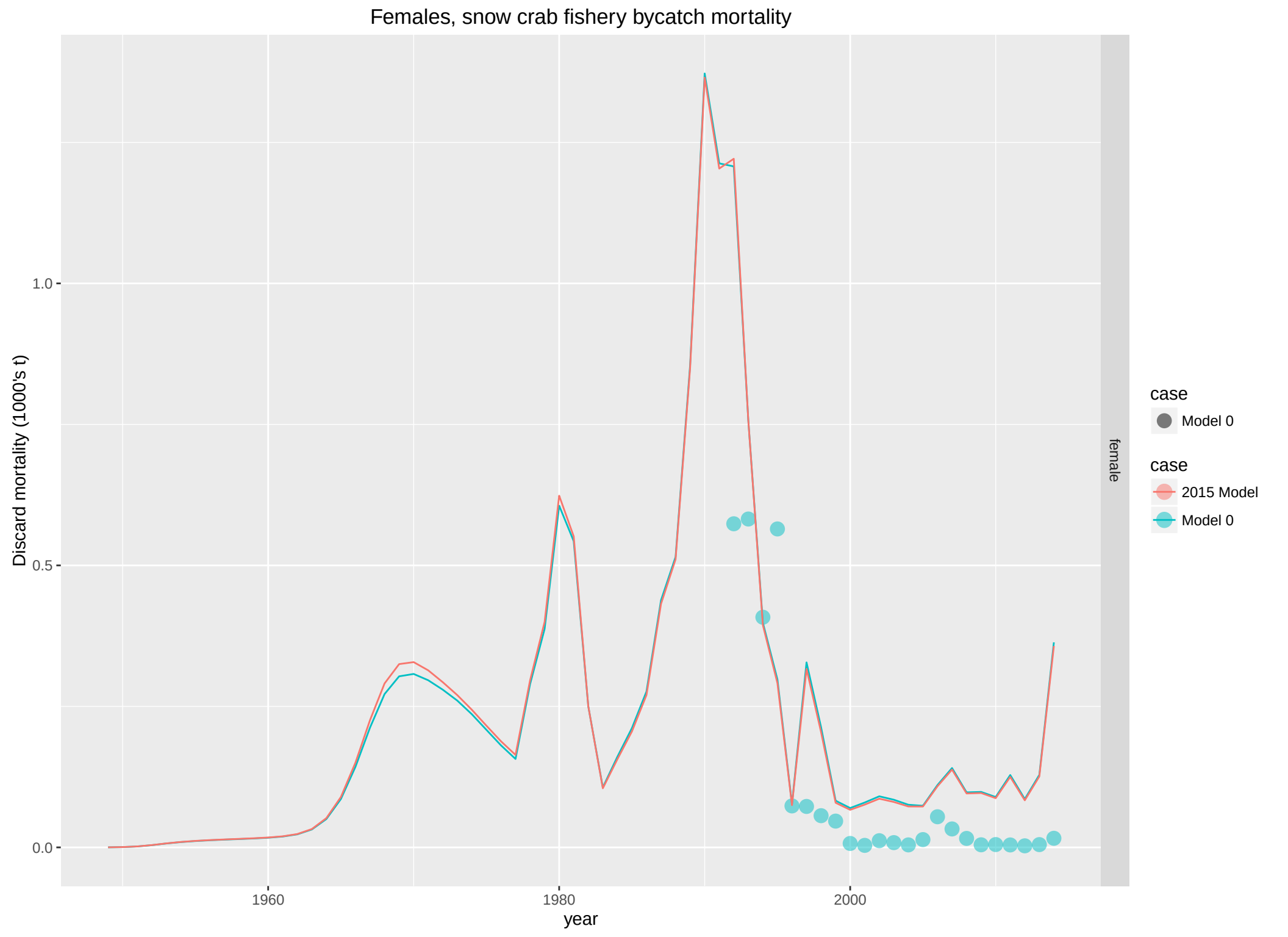

Males, directed fishery
Total mortality (1000's t)
30
20
10
0
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
case
2015 Model
Model 0

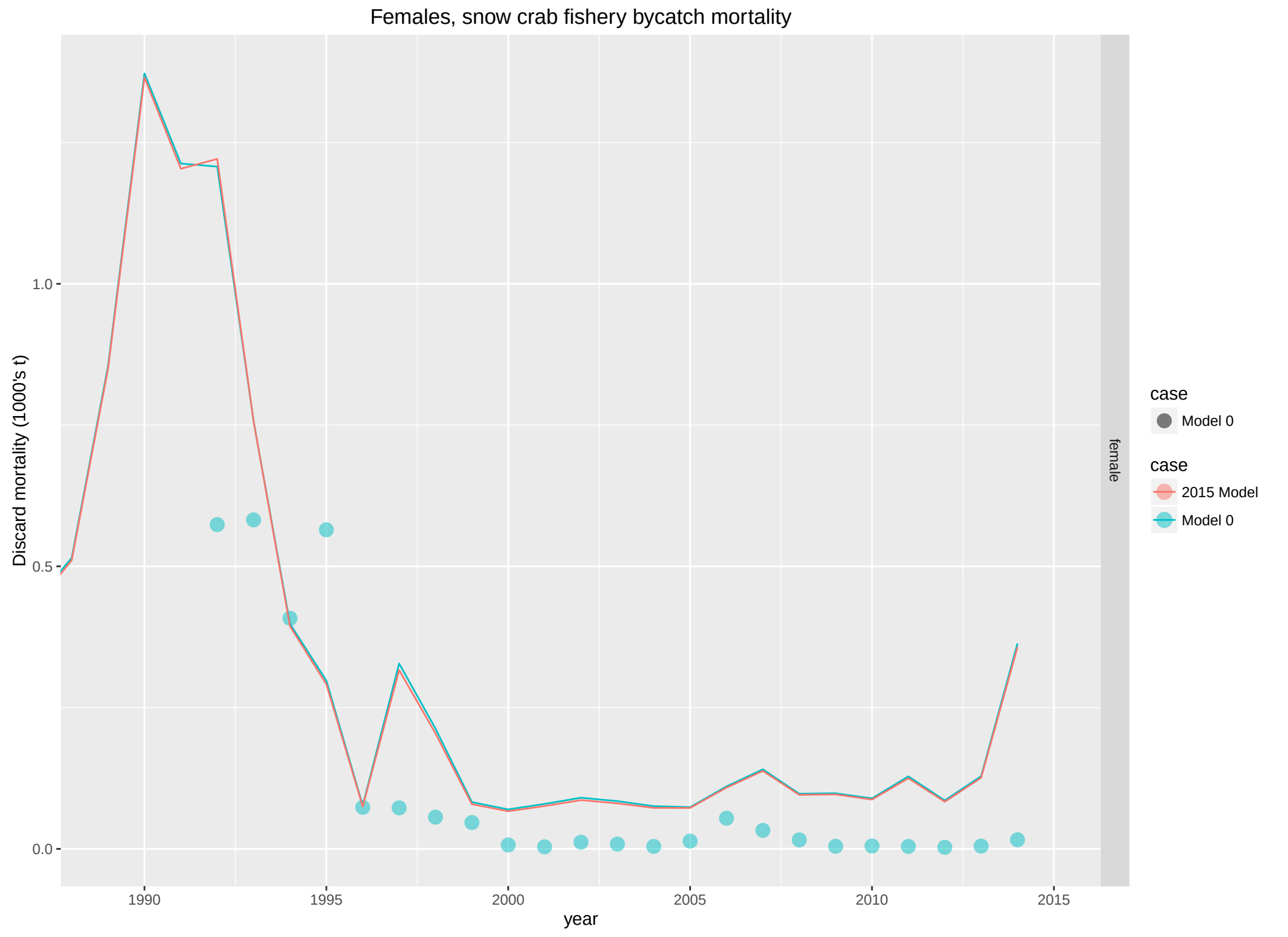

Females, directed fishery
Bycatch mortality (1000's t)
3
2
1
0
1960
1980
2000
year
female
case
Model 0
case
2015 Model
Model 0

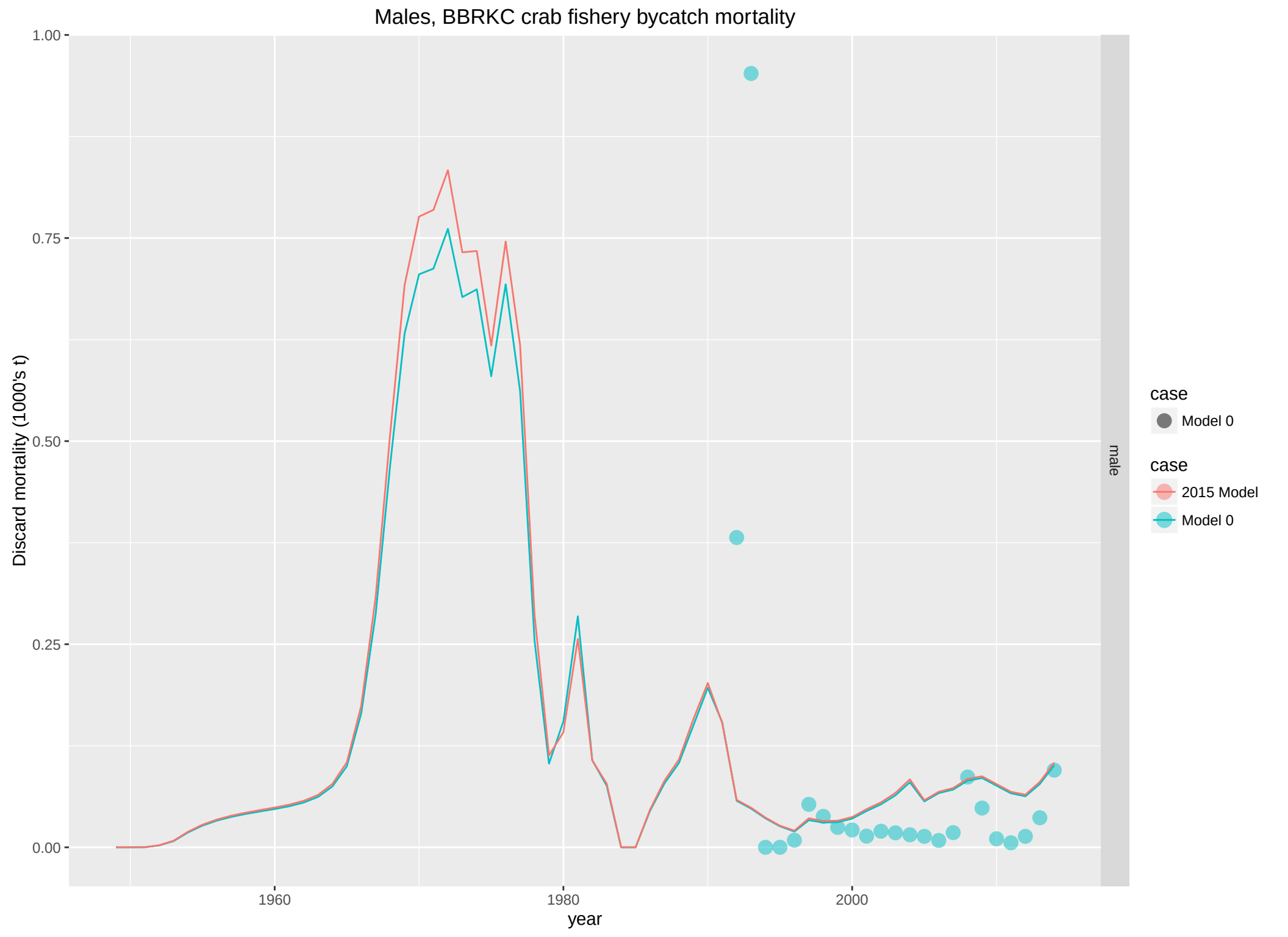

Females, directed fishery
Bycatch mortality (1000's t)
0.75
0.50
0.25
0.00
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
case
2015 Model
Model 0

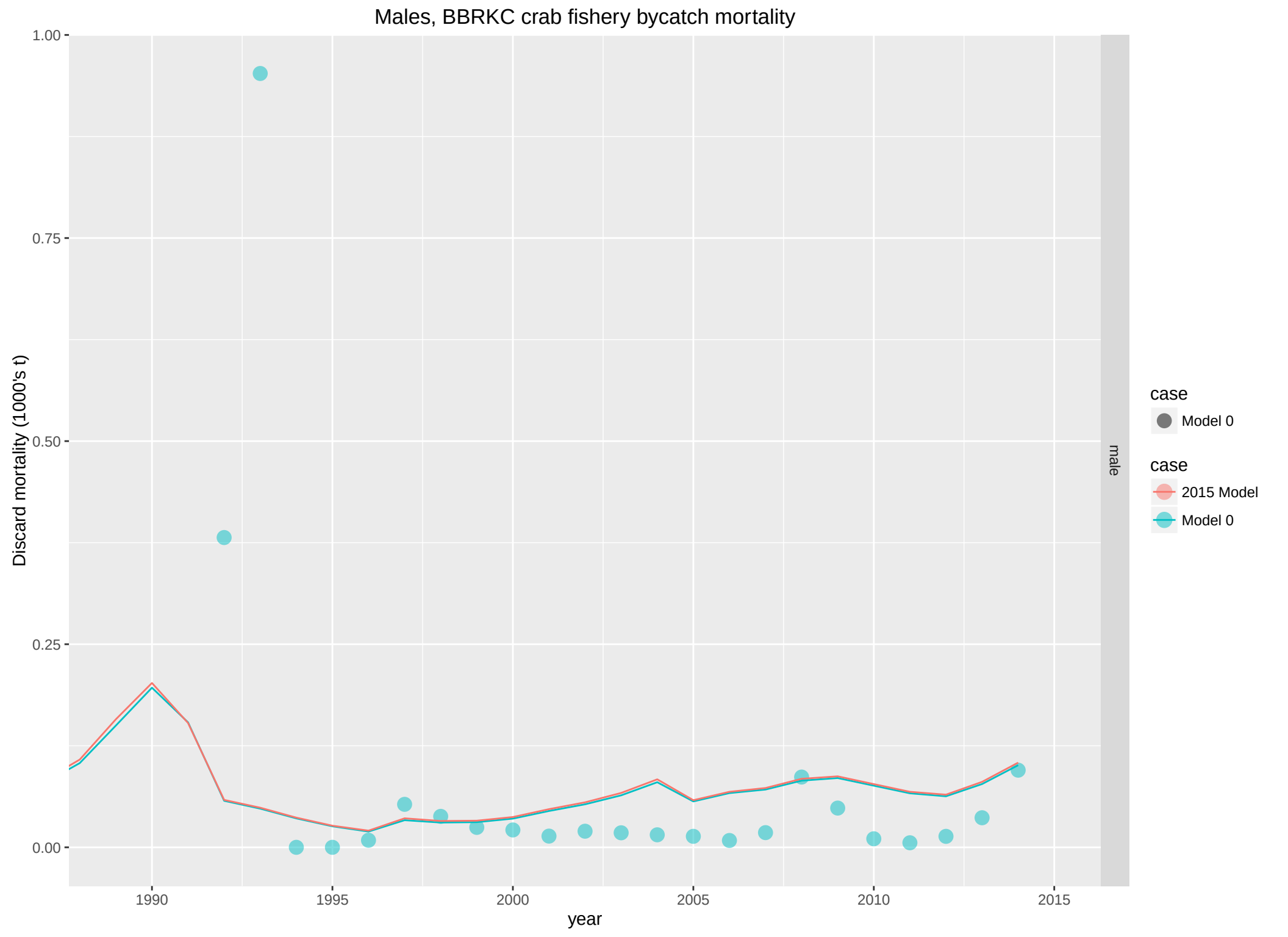

Males, snow crab fishery bycatch mortality
Discard mortality (1000's t)
10.0
7.5
5.0
2.5
0.0
1960
1980
2000
year
male
case
Model 0
case
2015 Model
Model 0

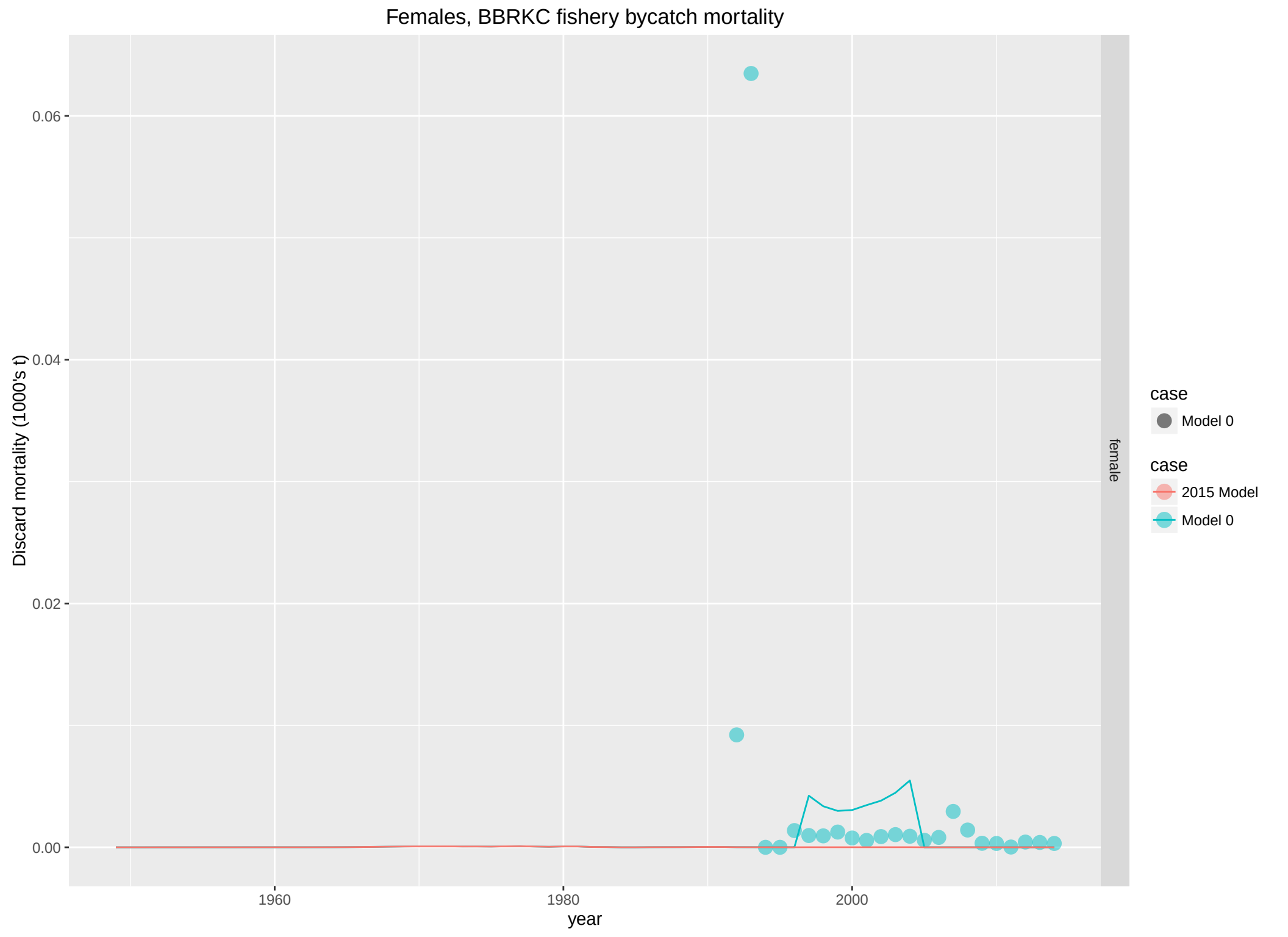

Males, snow crab fishery bycatch mortality
Discard mortality (1000's t)
10.0
7.5
5.0
2.5
0.0
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
case
2015 Model
Model 0

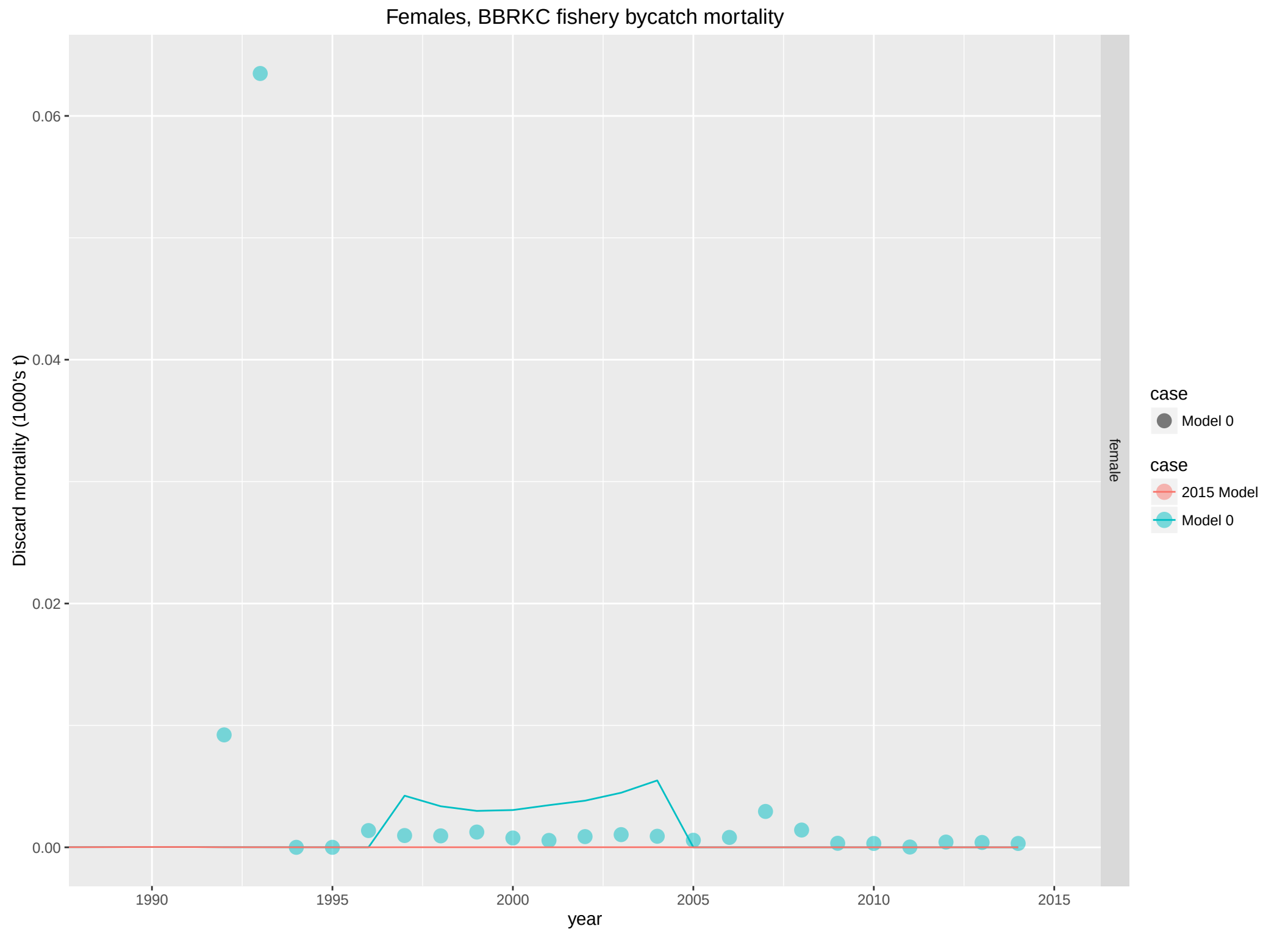

Females, snow crab fishery bycatch mortality
Discard mortality (1000's t)
1.0
0.5
0.0
1960
1980
2000
year
female
case
Model 0
case
2015 Model
Model 0

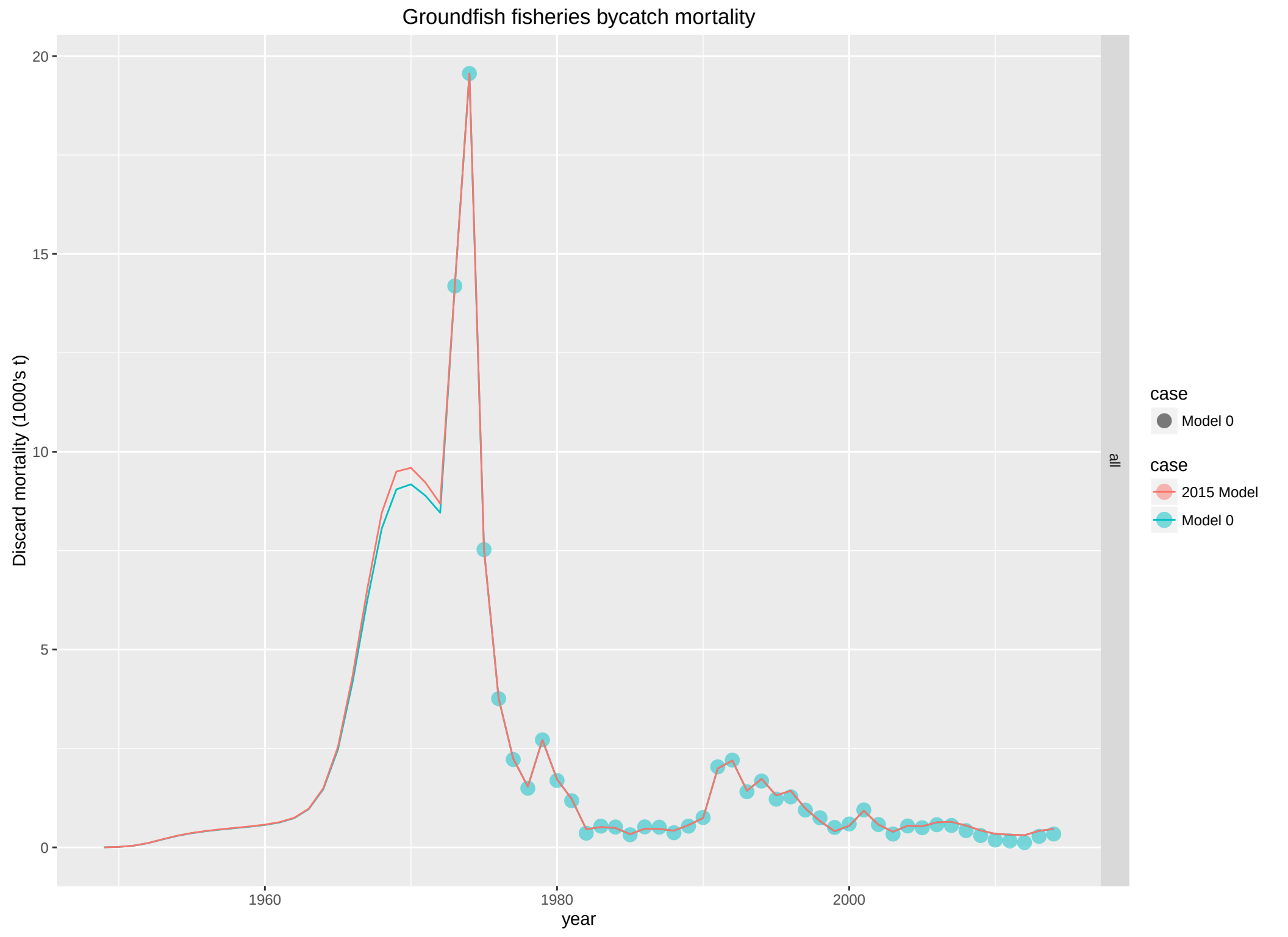

Females, snow crab fishery bycatch mortality
Discard mortality (1000's t)
1.0
0.5
0.0
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
case
2015 Model
Model 0

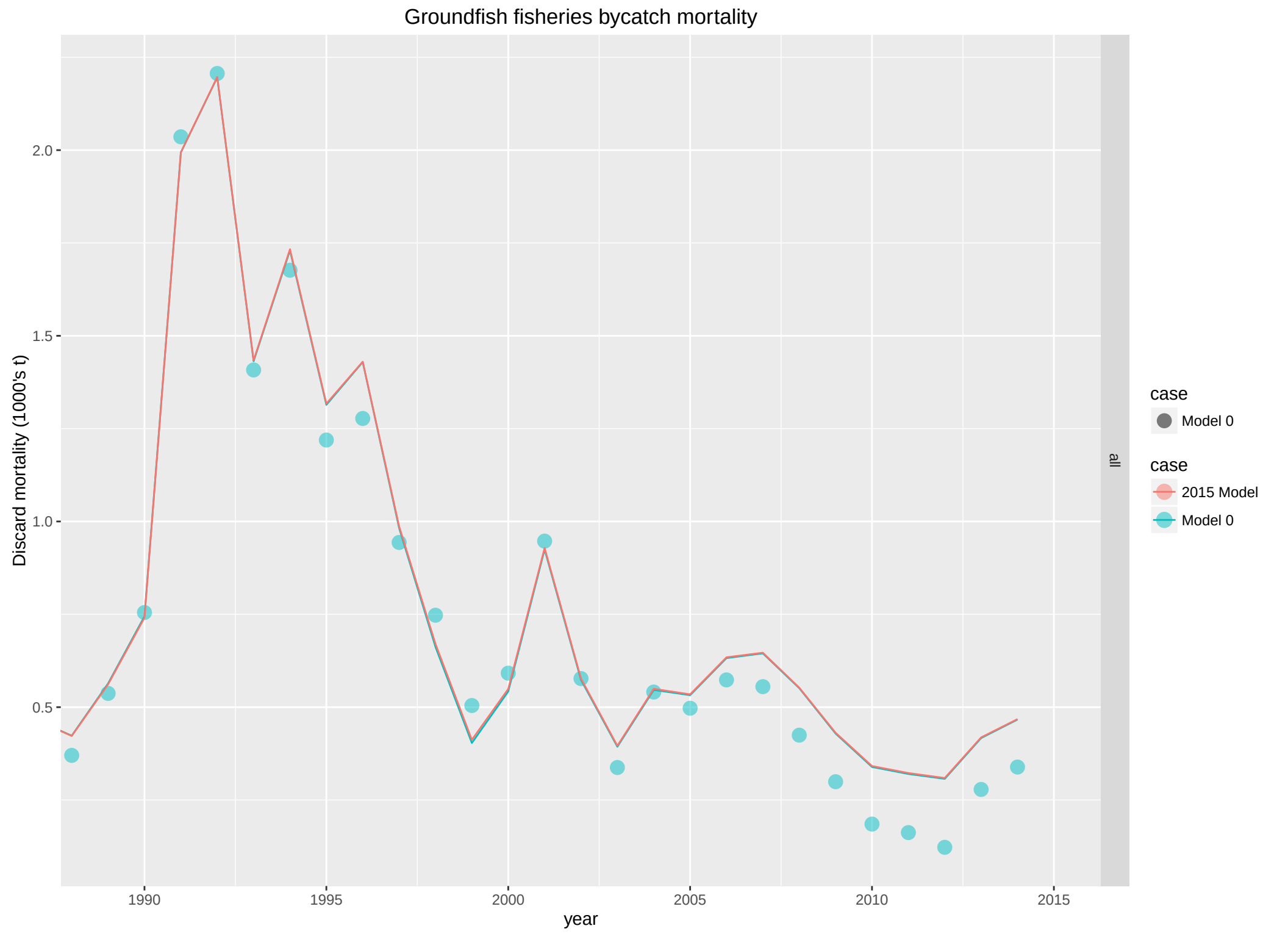

Males, BBRKC crab fishery bycatch mortality
Discard mortality (1000's t)
1.00
0.75
0.50
0.25
0.00
1960
1980
2000
year
male
case
Model 0
case
2015 Model
Model 0

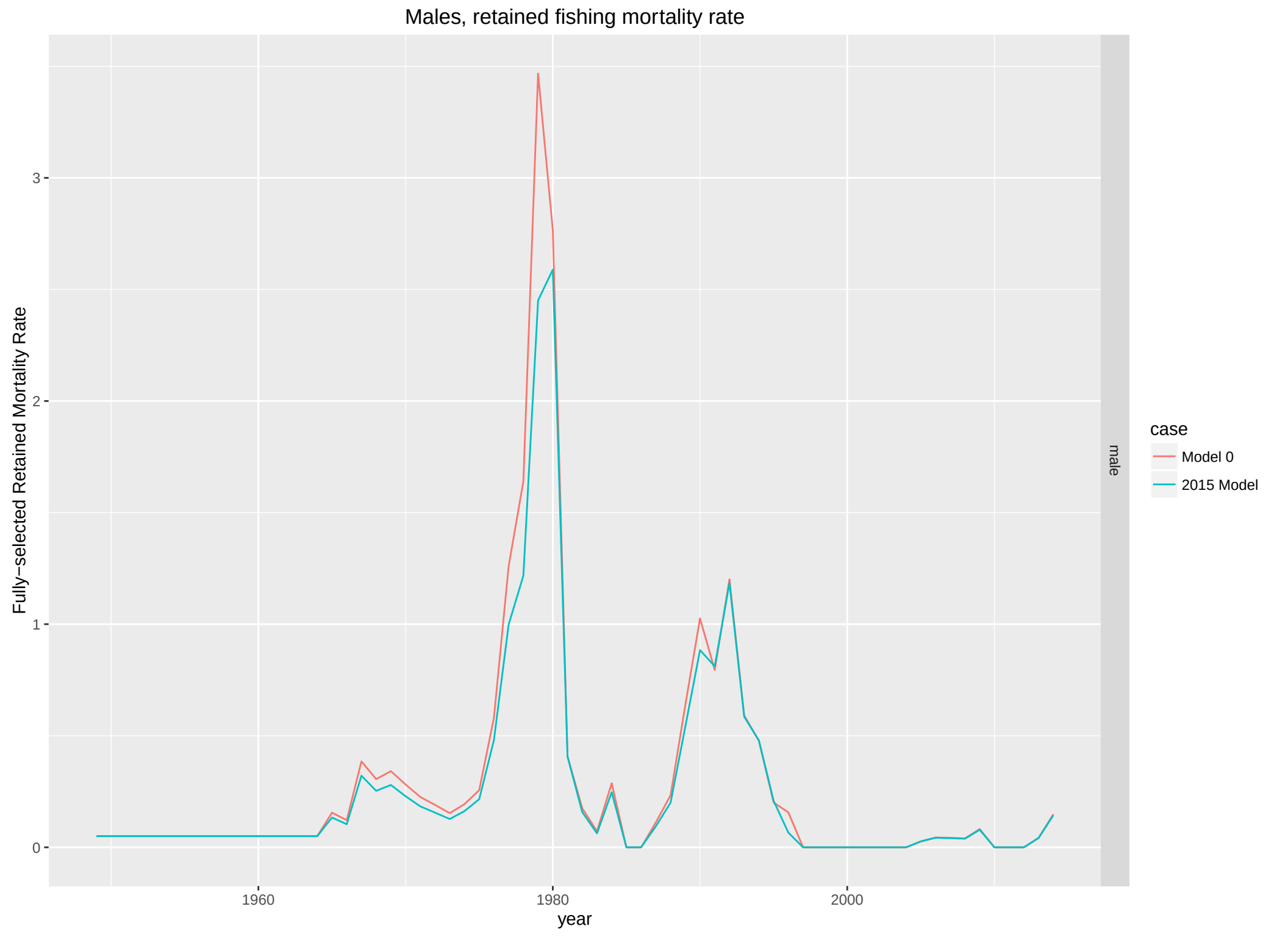

Males, BBRKC crab fishery bycatch mortality
Discard mortality (1000's t)
1.00
0.75
0.50
0.25
0.00
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
case
2015 Model
Model 0

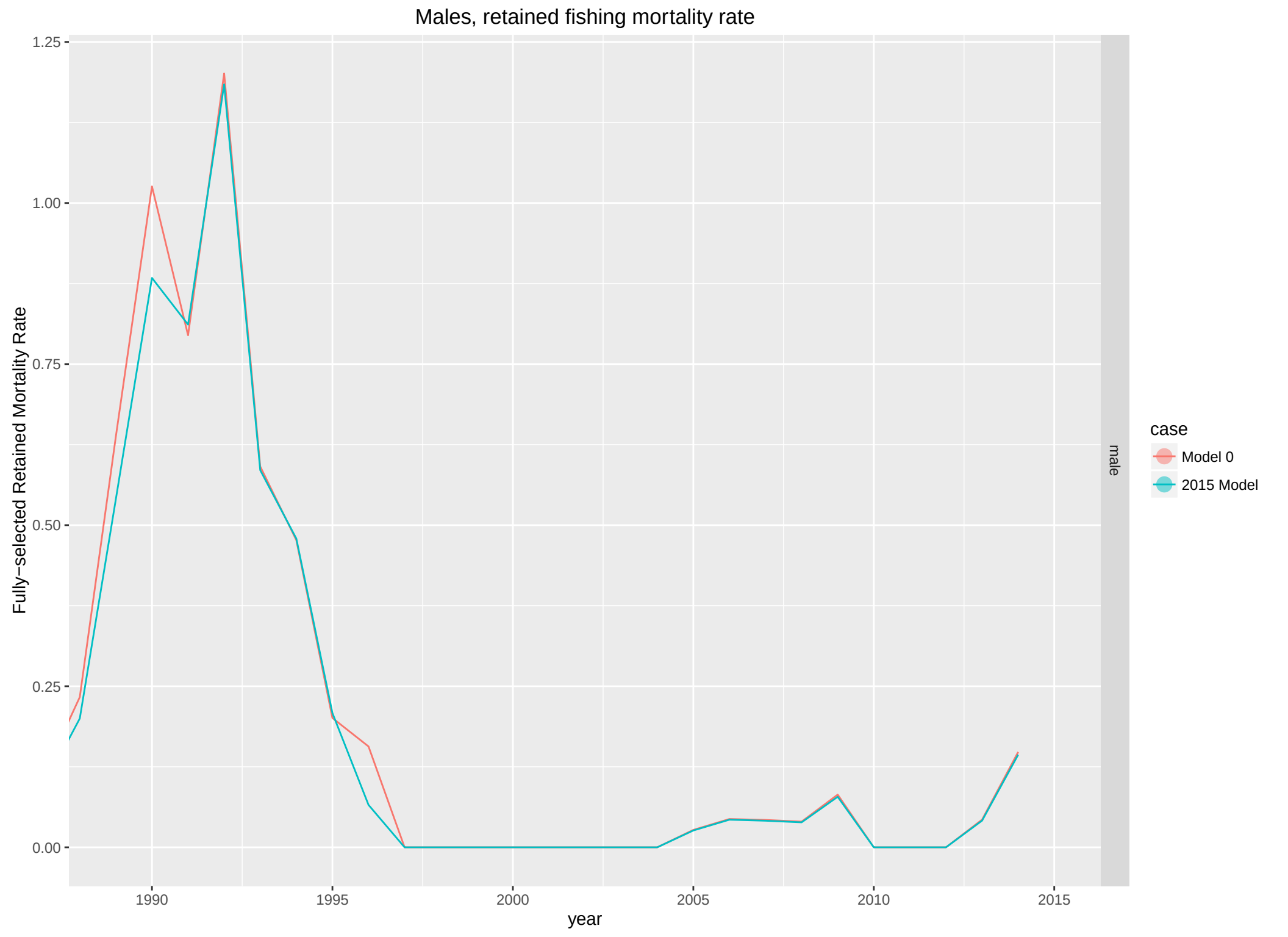

Females, BBRKC fishery bycatch mortality
Discard mortality (1000's t)
0.06
0.04
0.02
0.00
1960
1980
2000
year
female
case
Model 0
case
2015 Model
Model 0

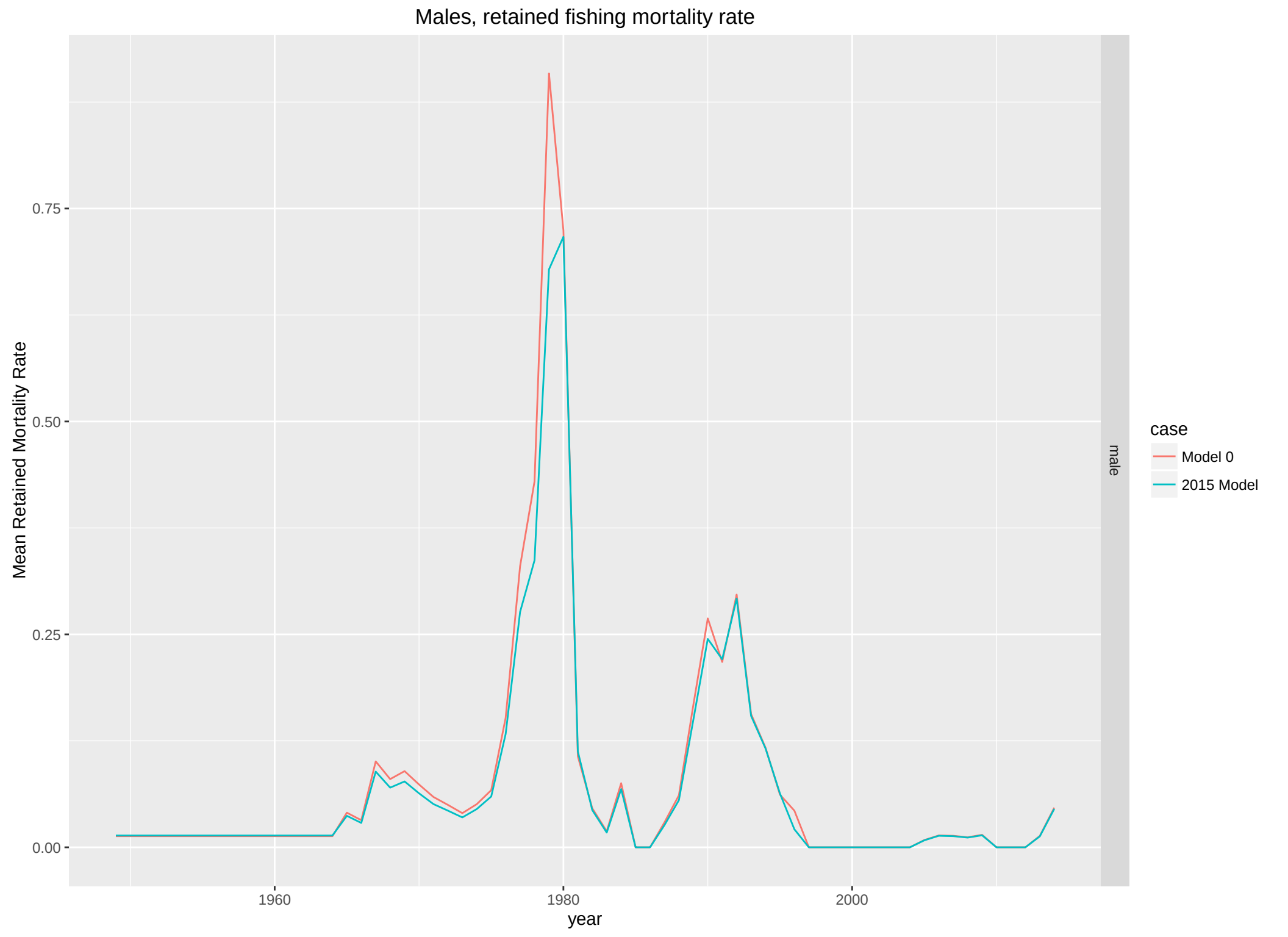

Females, BBRKC fishery bycatch mortality
Discard mortality (1000's t)
0.06
0.04
0.02
0.00
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
case
2015 Model
Model 0

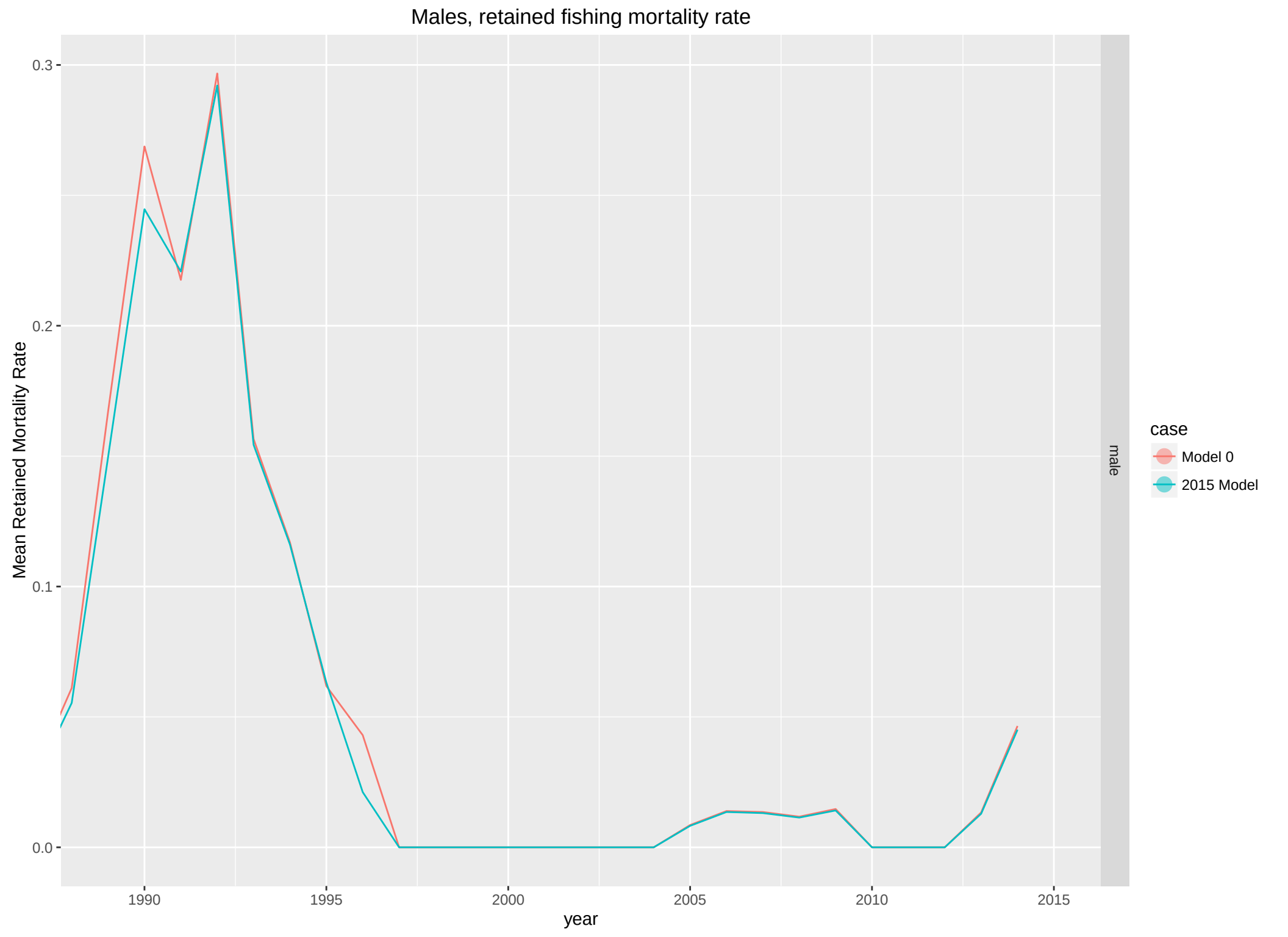

Groundfish fisheries bycatch mortality
Discard mortality (1000's t)
20
15
10
5
0
1960
1980
2000
year
all
case
Model 0
case
2015 Model
Model 0

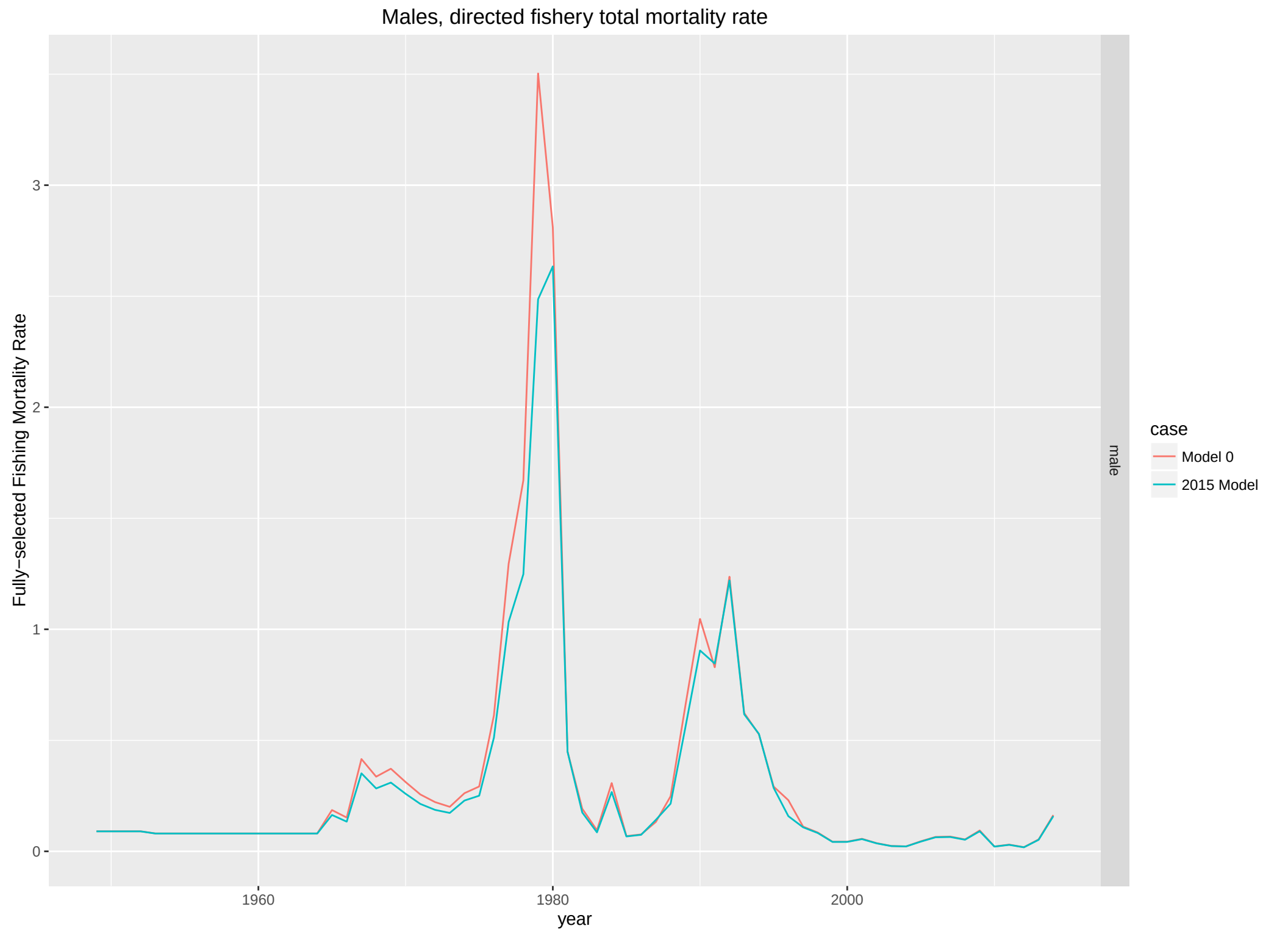

Groundfish fisheries bycatch mortality
Discard mortality (1000's t)
2.0
1.5
1.0
0.5
1990
1995
2000
2005
2010
2015
year
all
case
Model 0
case
2015 Model
Model 0

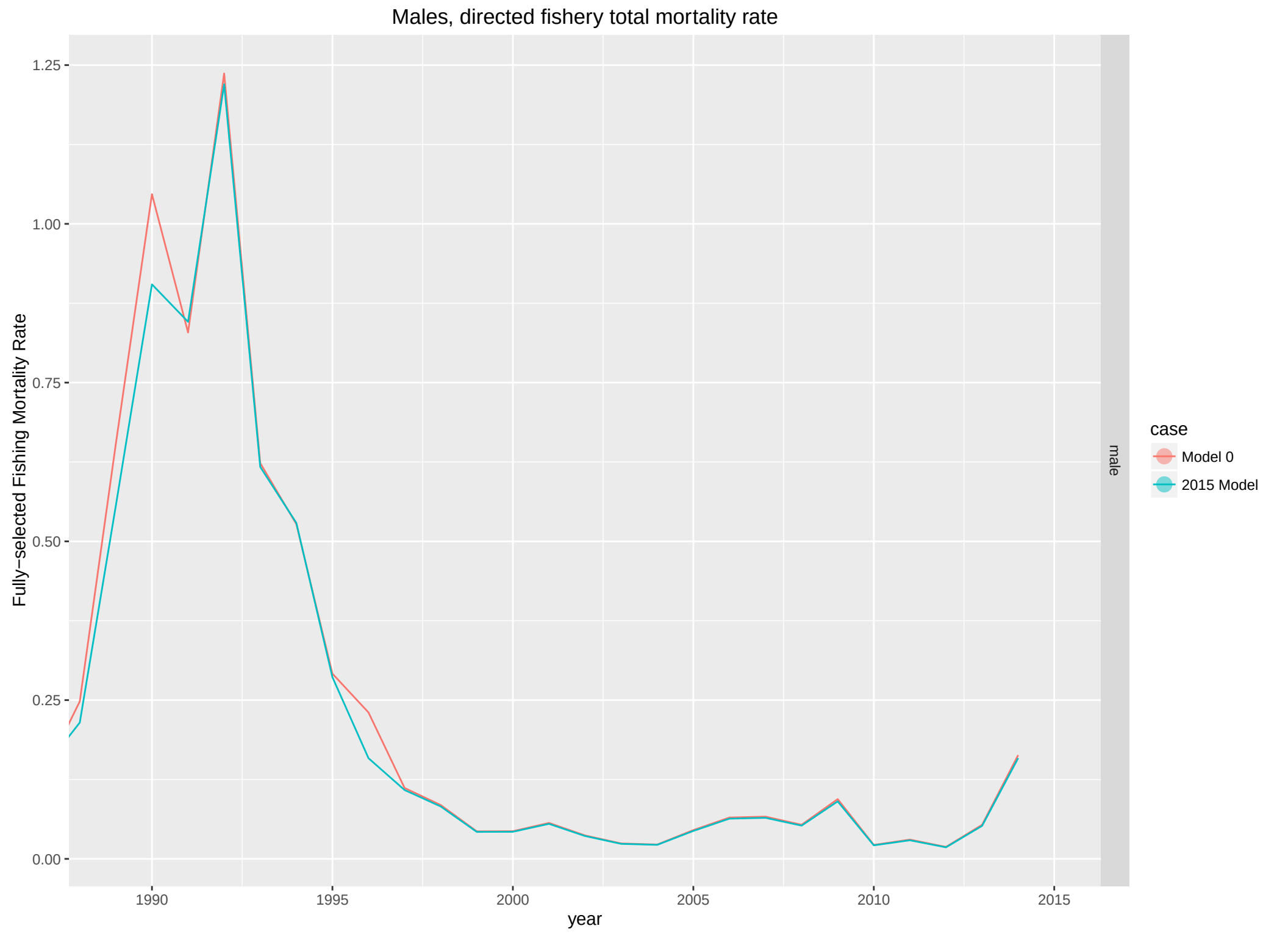

Males, retained fishing mortality rate
Fully−selected Retained Mortality Rate
0
1
2
3
1960
1980
2000
year
male
case
Model 0
2015 Model

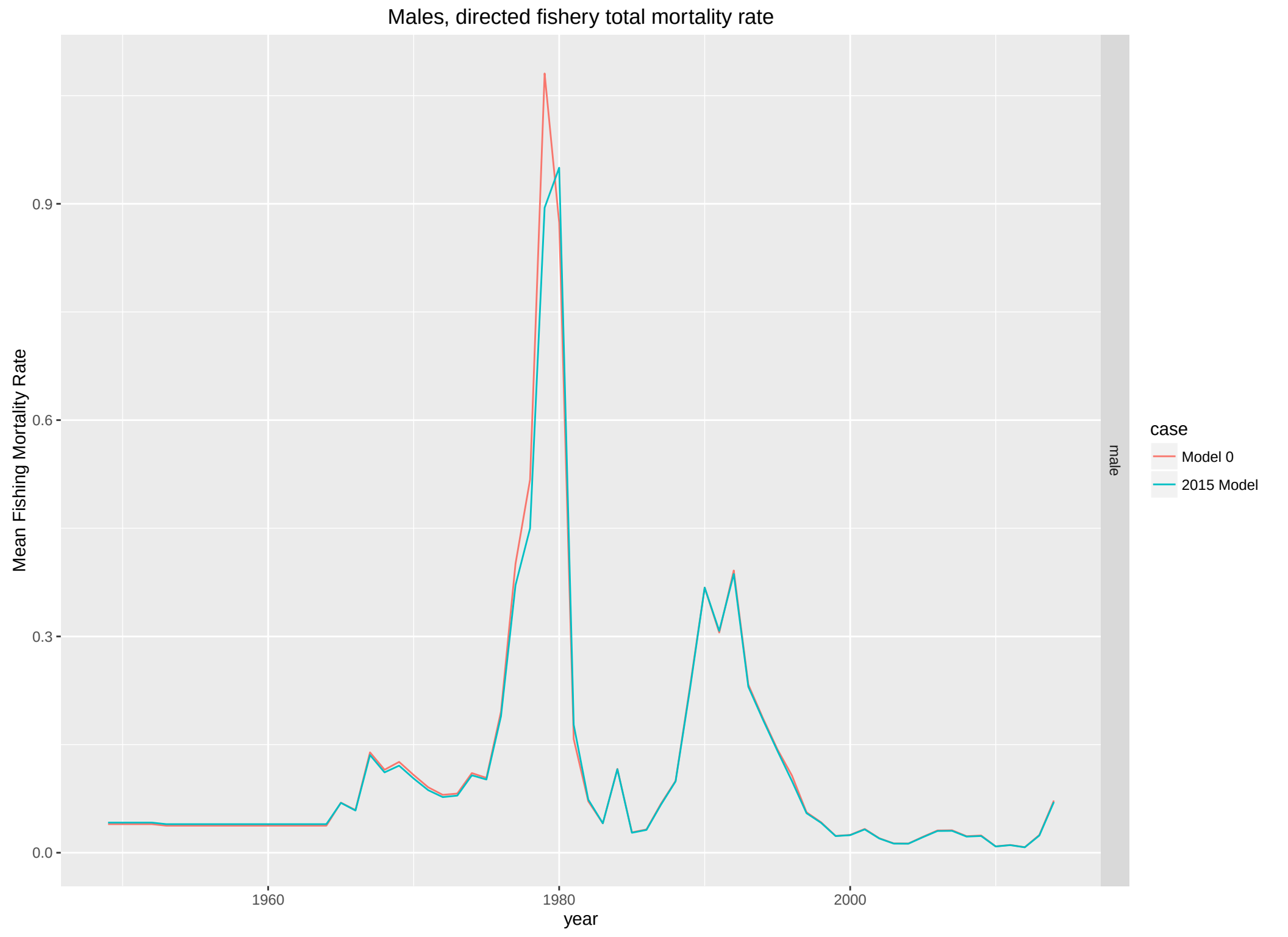

Males, retained fishing mortality rate
Fully−selected Retained Mortality Rate
1.25
1.00
0.75
0.50
0.25
0.00
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

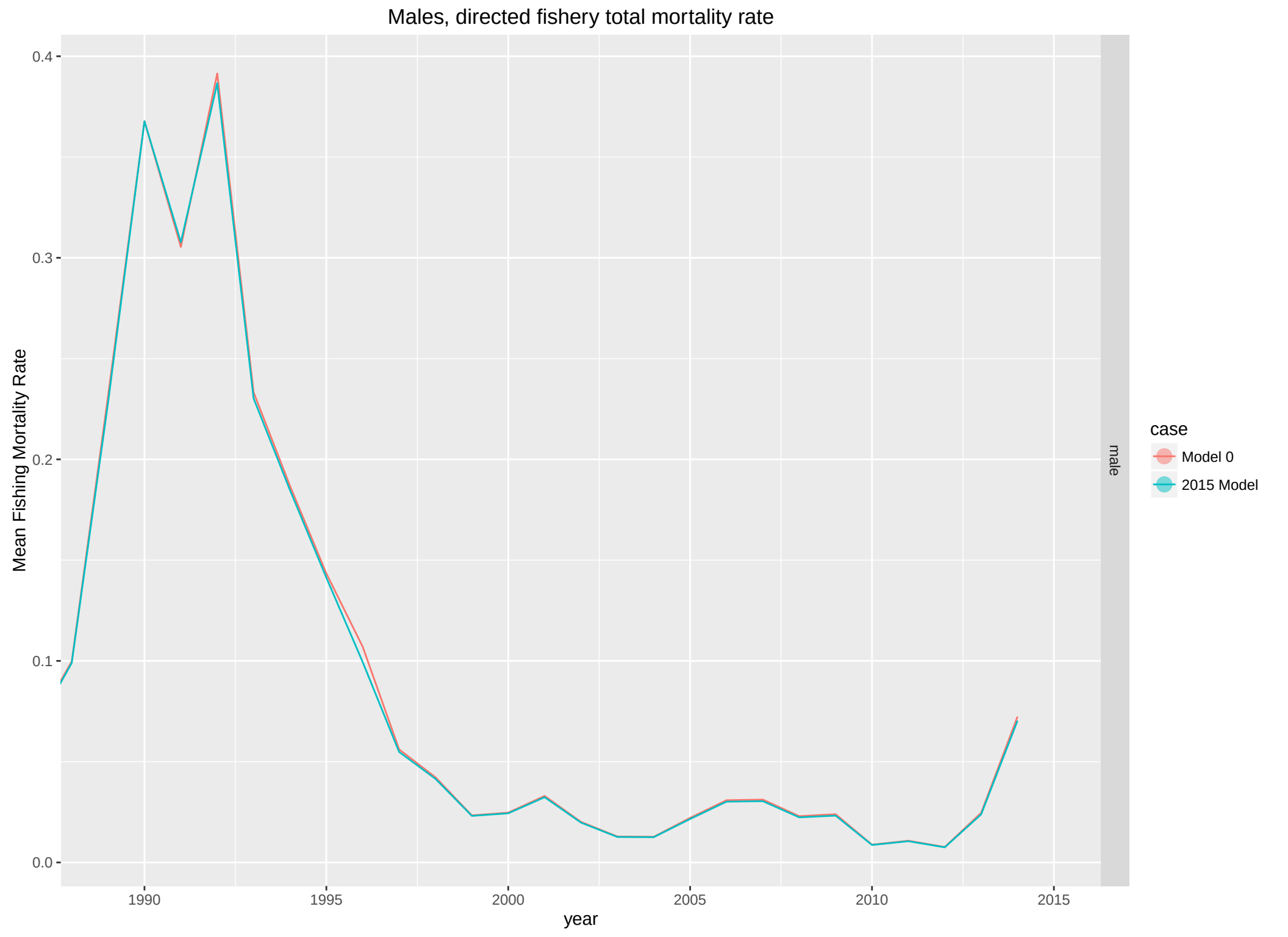

Males, retained fishing mortality rate
Mean Retained Mortality Rate
0.75
0.50
0.25
0.00
1960
1980
2000
year
male
case
Model 0
2015 Model

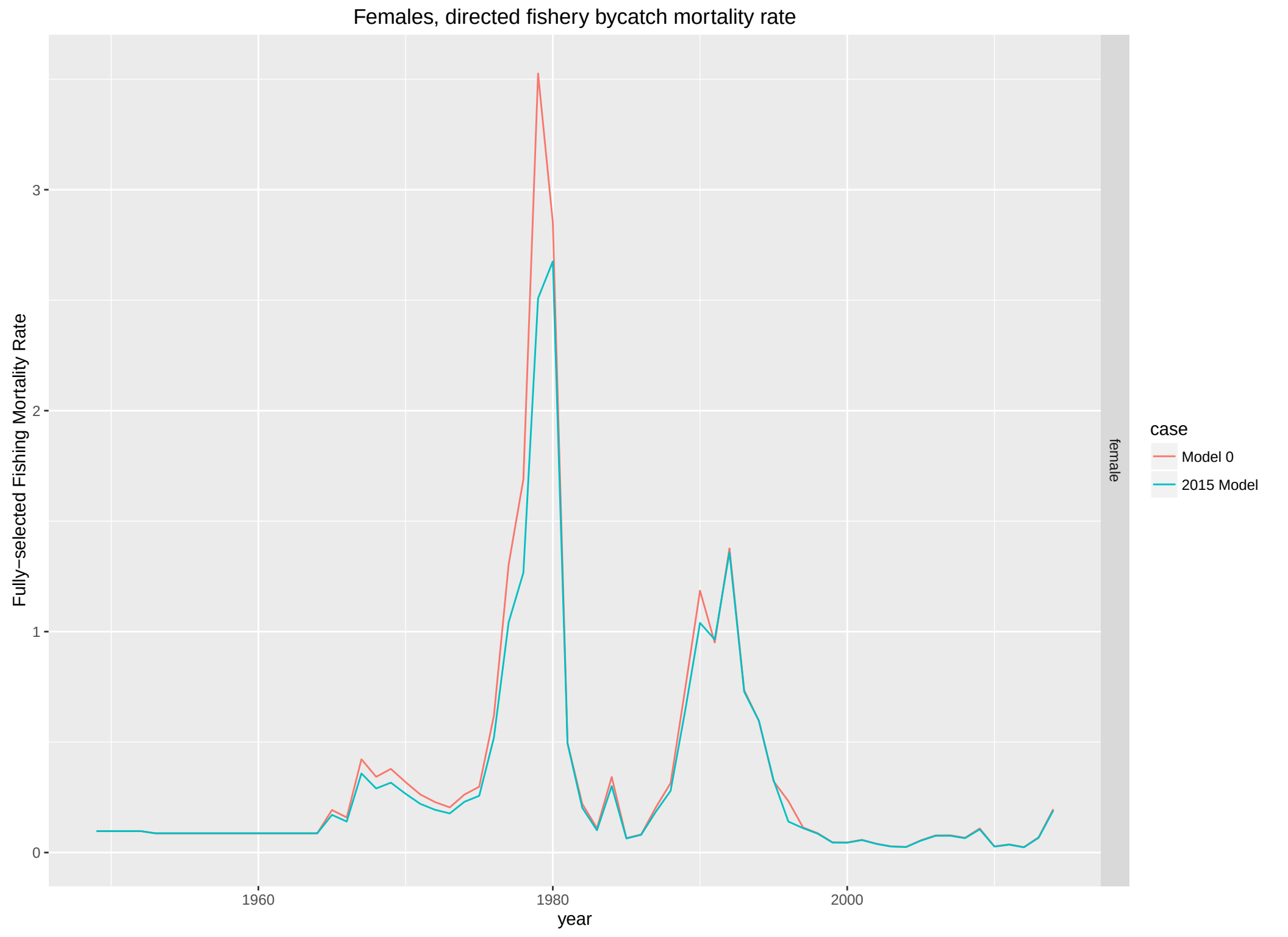

Males, retained fishing mortality rate
Mean Retained Mortality Rate
0.3
0.2
0.1
0.0
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

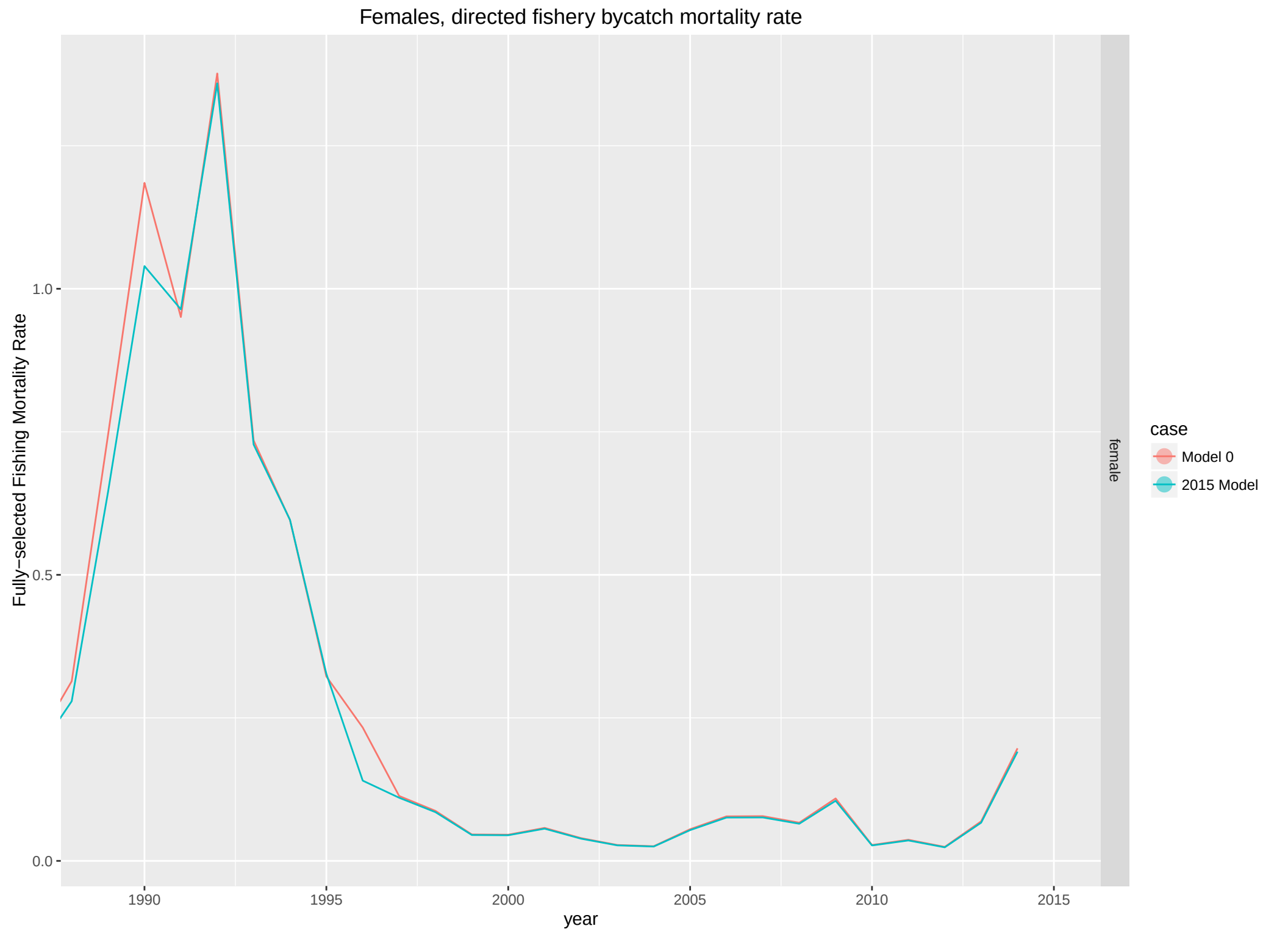

Males, directed fishery total mortality rate
Fully−selected Fishing Mortality Rate
0
1
2
3
1960
1980
2000
year
male
case
Model 0
2015 Model

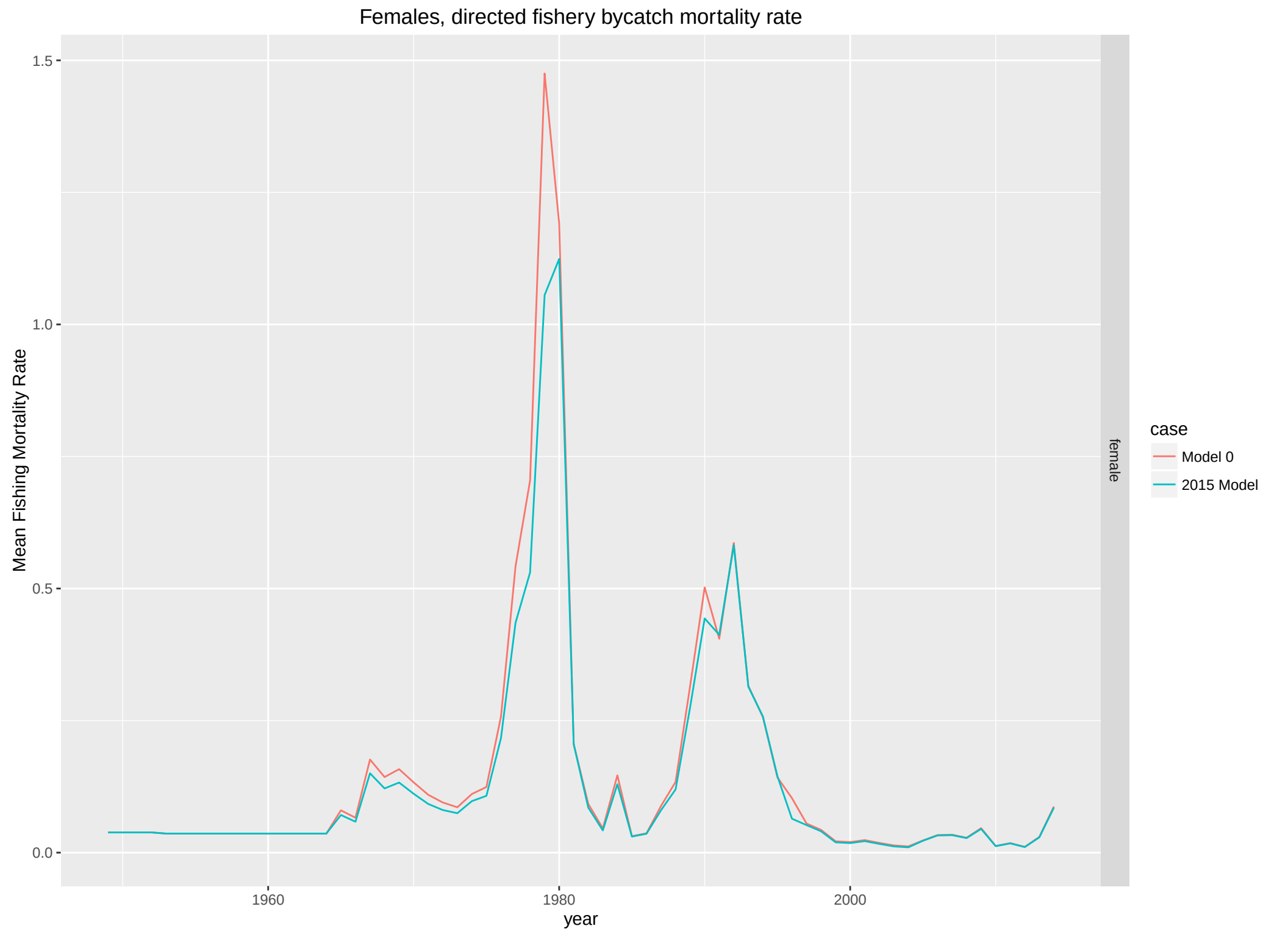

Males, directed fishery total mortality rate
Fully−selected Fishing Mortality Rate
1.25
1.00
0.75
0.50
0.25
0.00
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

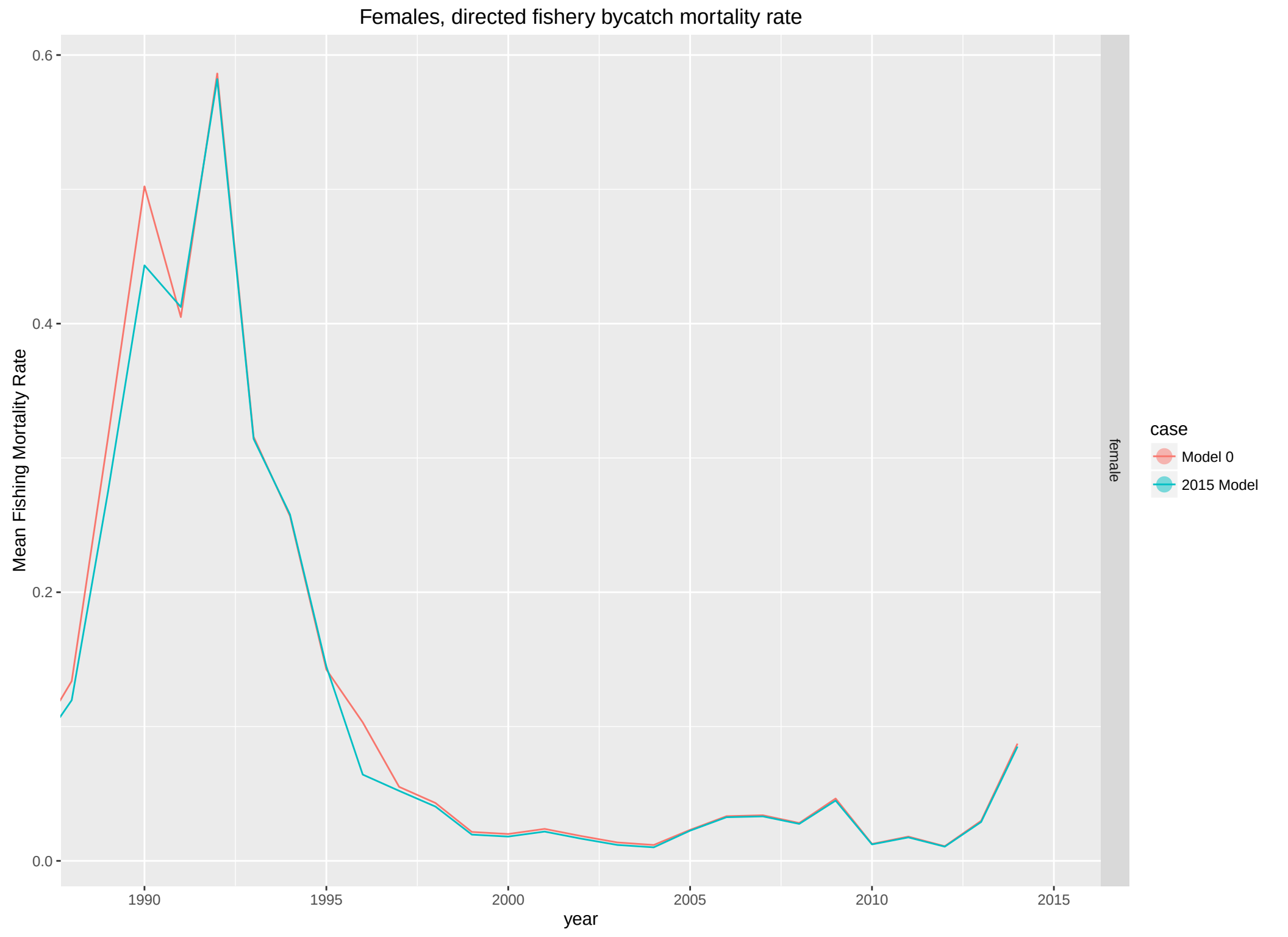

Males, directed fishery total mortality rate
Mean Fishing Mortality Rate
0.0
0.3
0.6
0.9
1960
1980
2000
year
male
case
Model 0
2015 Model

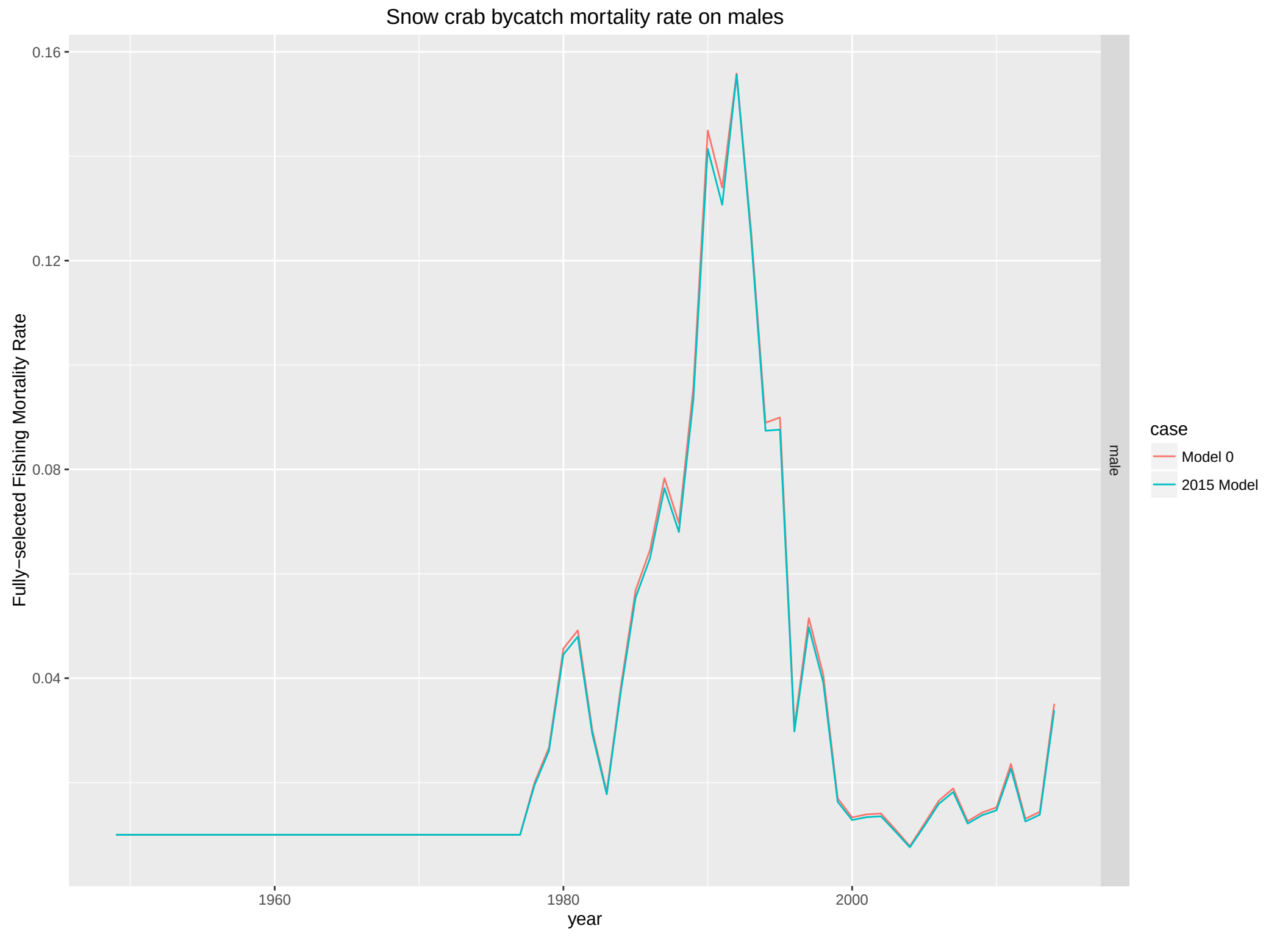

Males, directed fishery total mortality rate
Mean Fishing Mortality Rate
0.4
0.3
0.2
0.1
0.0
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

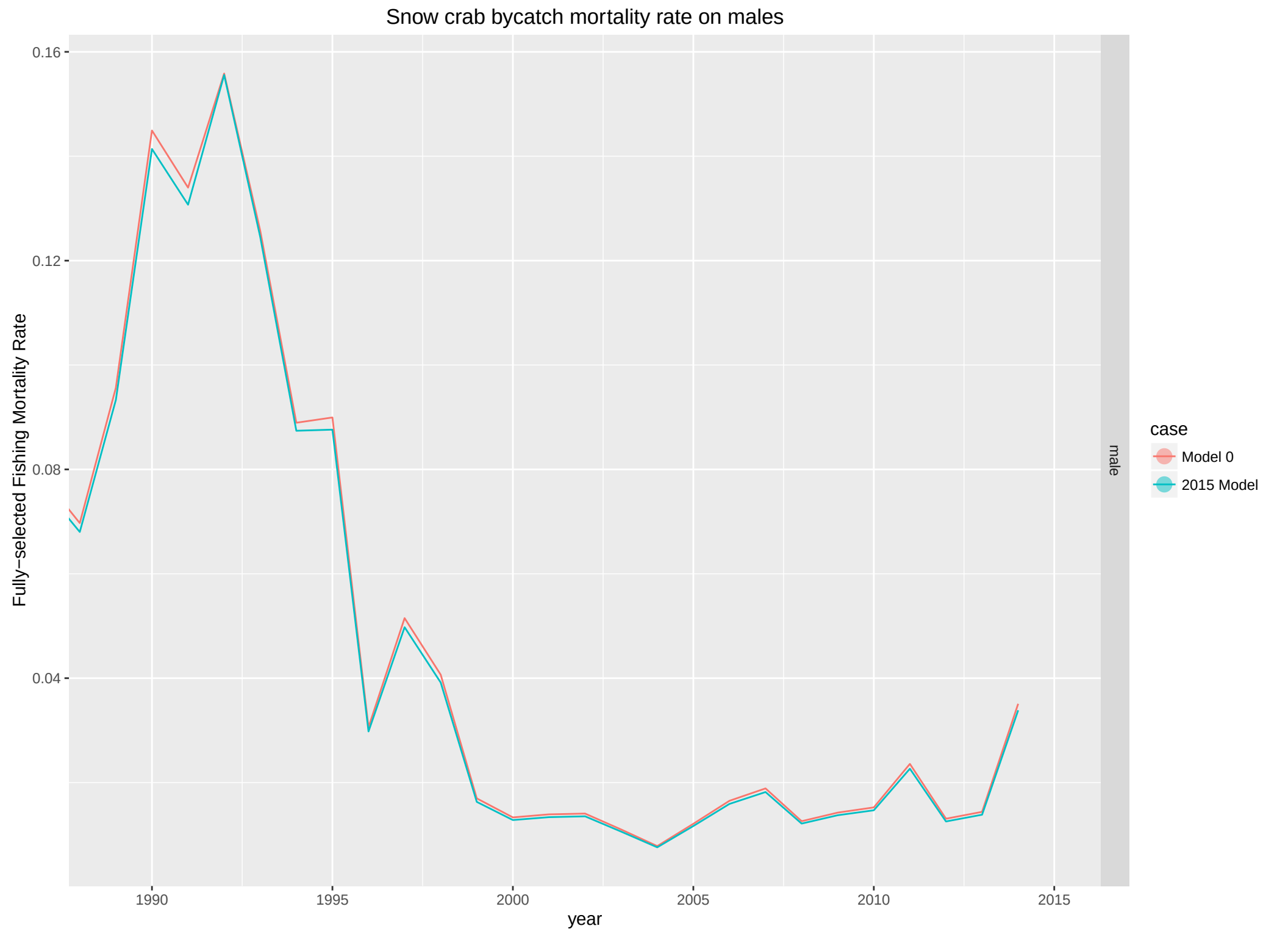

Females, directed fishery bycatch mortality rate
Fully−selected Fishing Mortality Rate
0
1
2
3
1960
1980
2000
year
female
case
Model 0
2015 Model

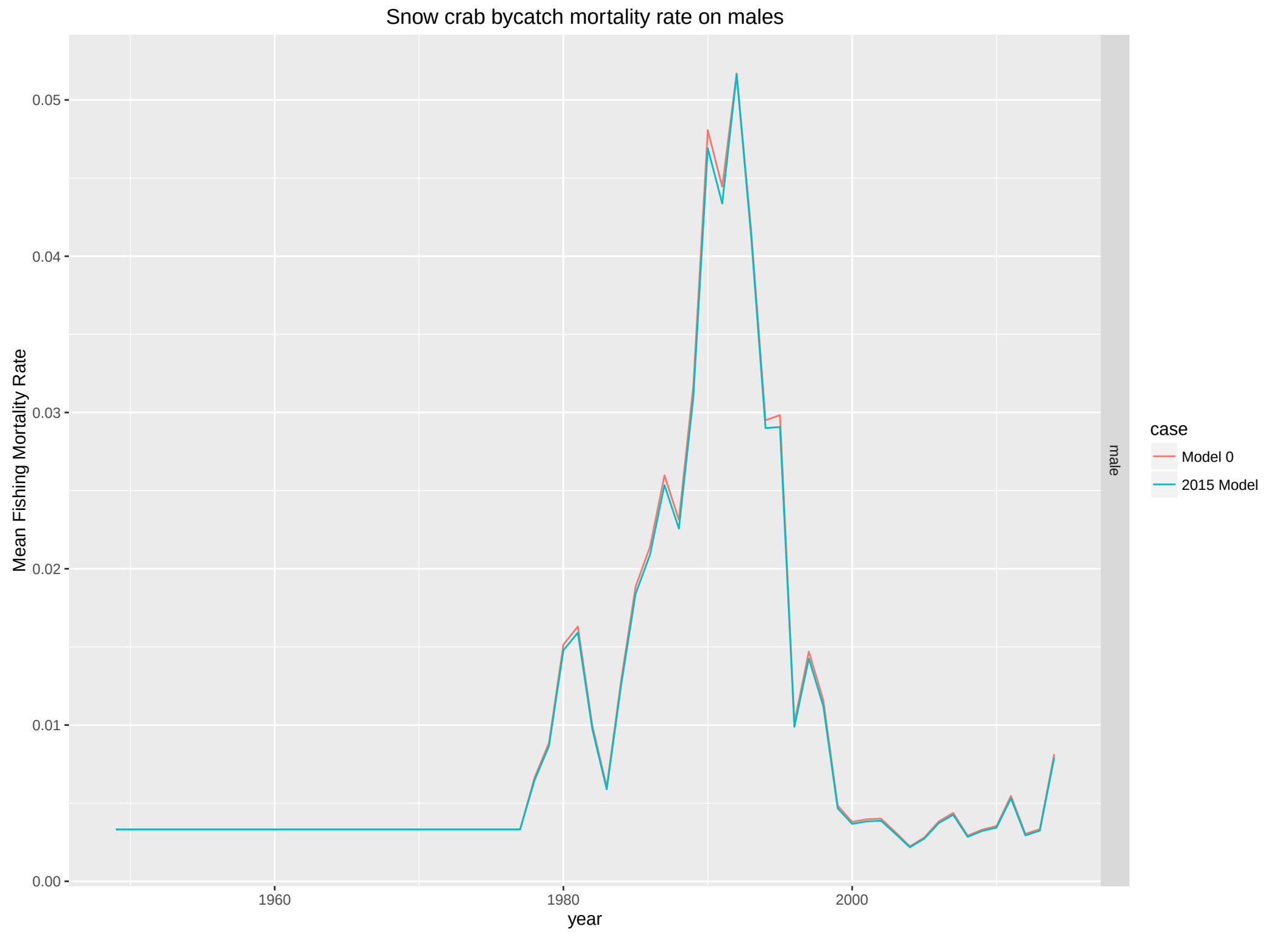

Females, directed fishery bycatch mortality rate
Fully−selected Fishing Mortality Rate
1.0
0.5
0.0
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
2015 Model

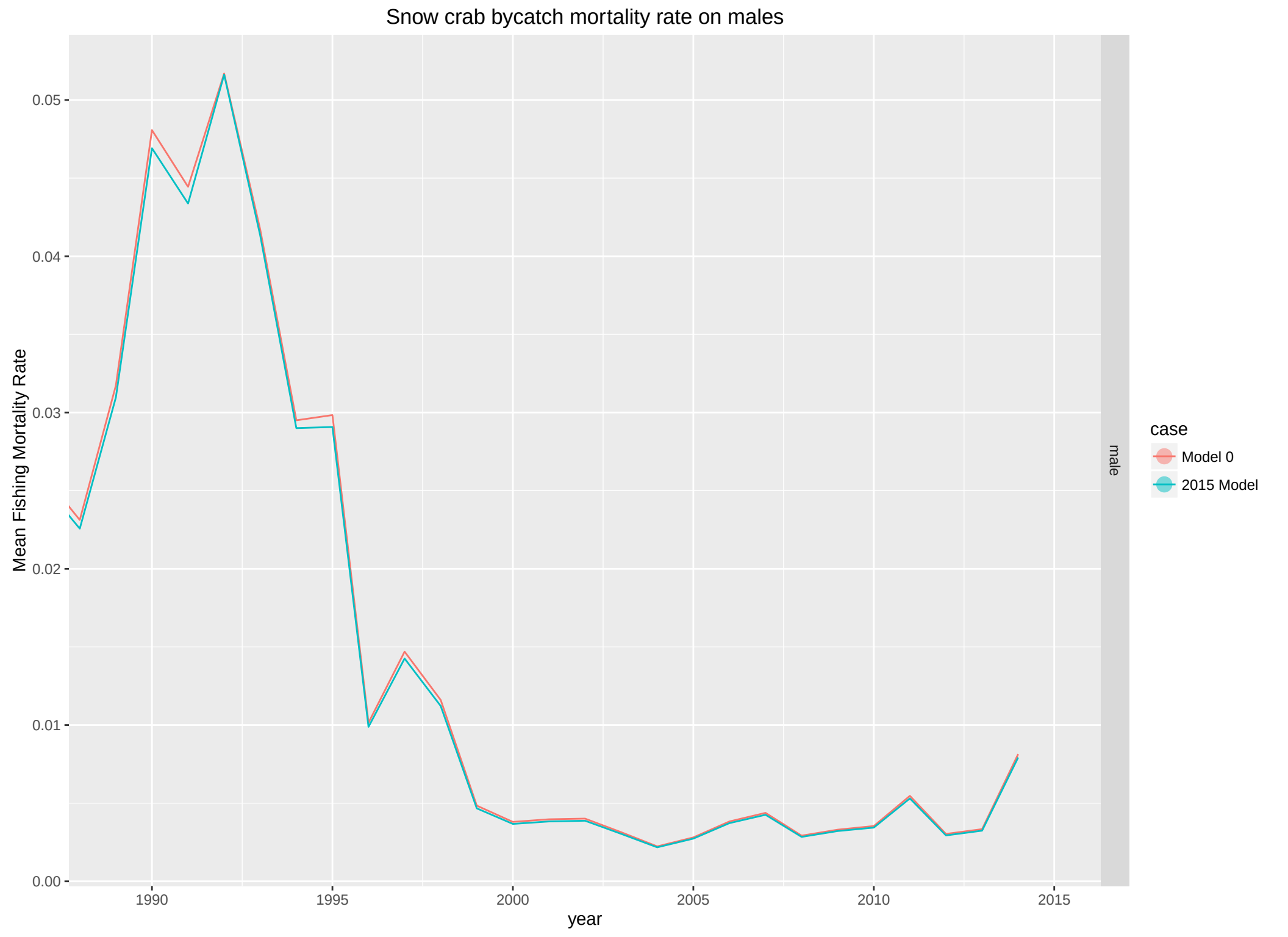

Females, directed fishery bycatch mortality rate
Mean Fishing Mortality Rate
1.5
1.0
0.5
0.0
1960
1980
2000
year
female
case
Model 0
2015 Model

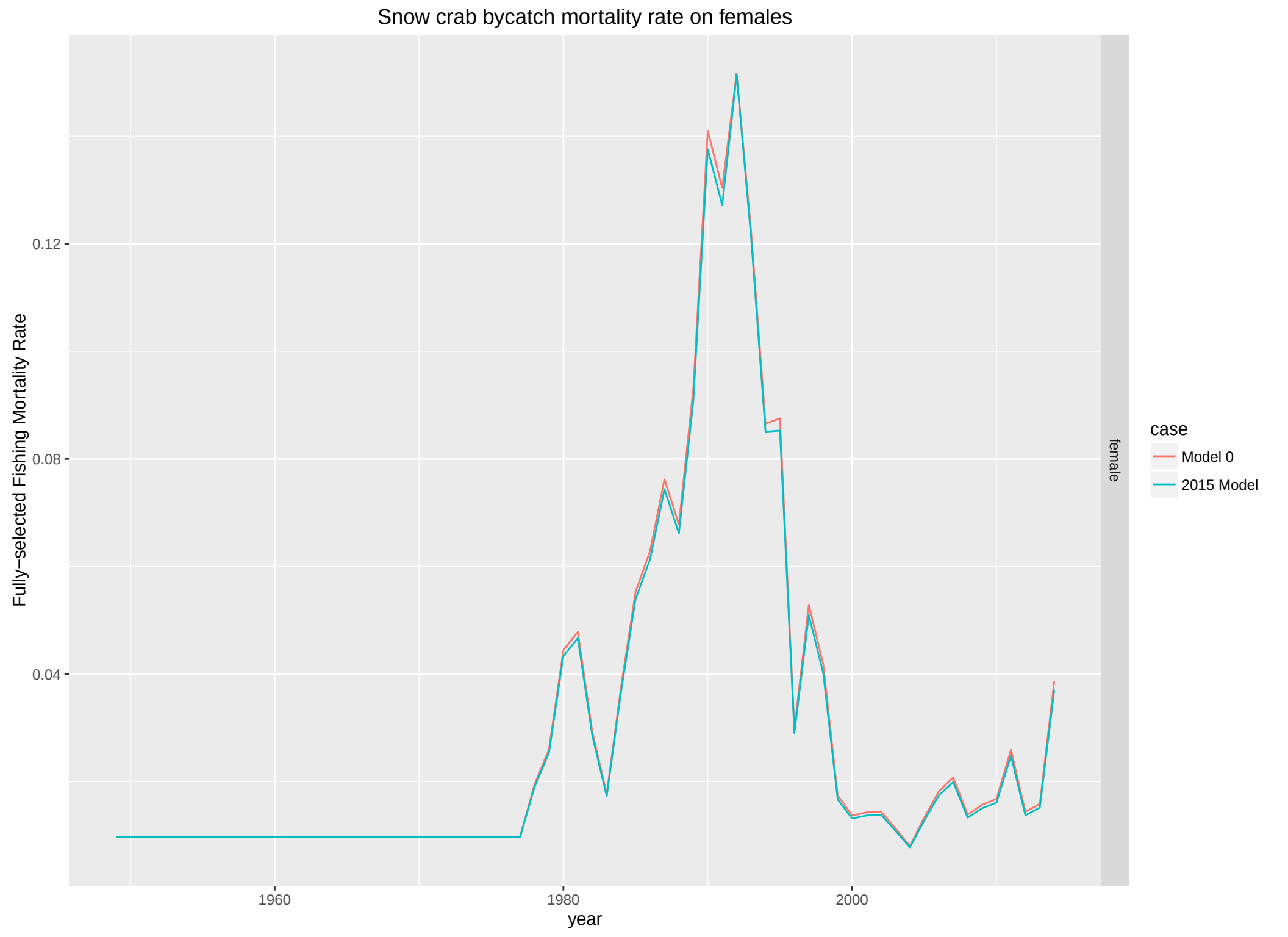

Females, directed fishery bycatch mortality rate
Mean Fishing Mortality Rate
0.6
0.4
0.2
0.0
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
2015 Model

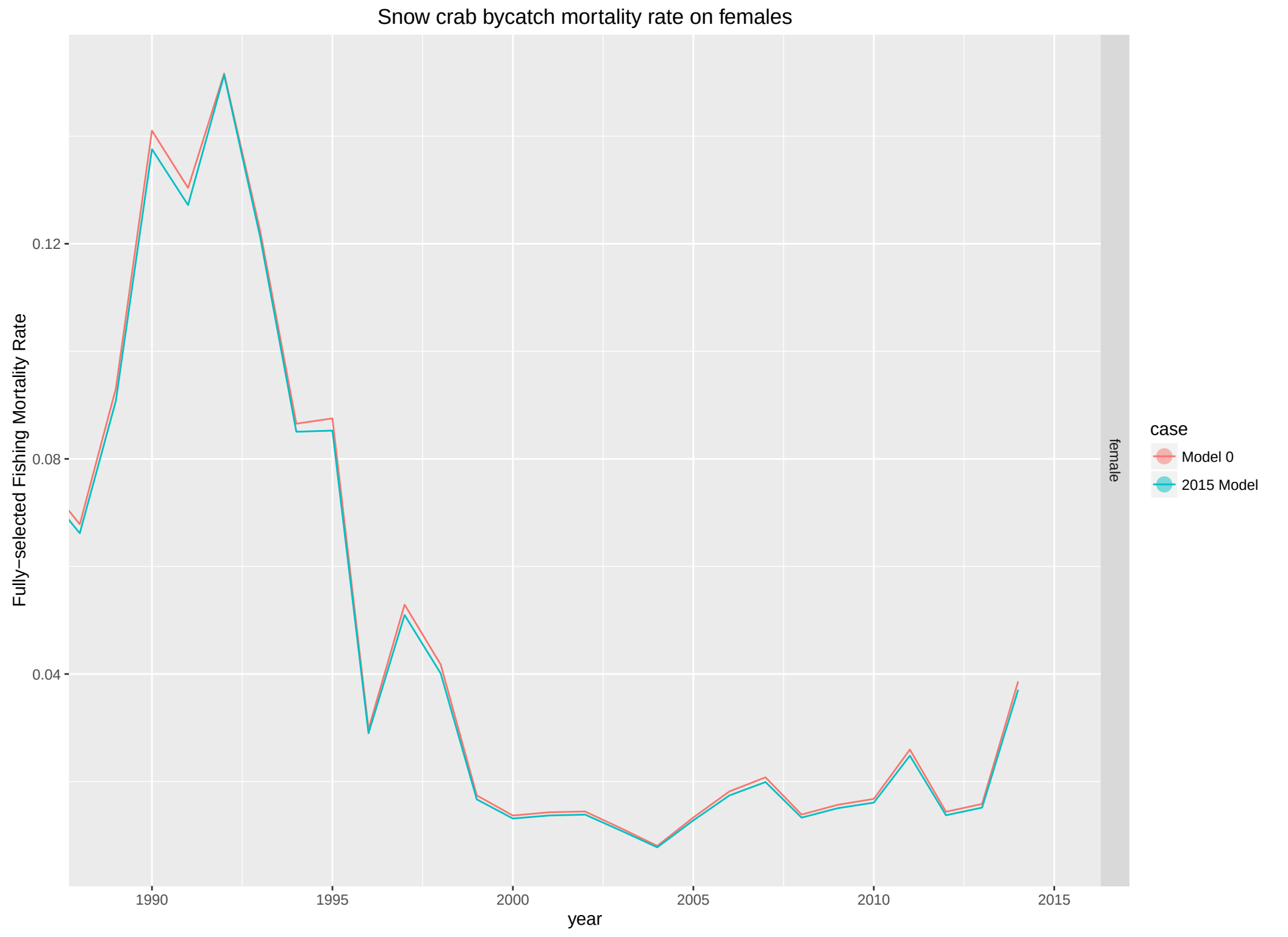

Snow crab bycatch mortality rate on males
Fully−selected Fishing Mortality Rate
0.16
0.12
0.08
0.04
1960
1980
2000
year
male
case
Model 0
2015 Model

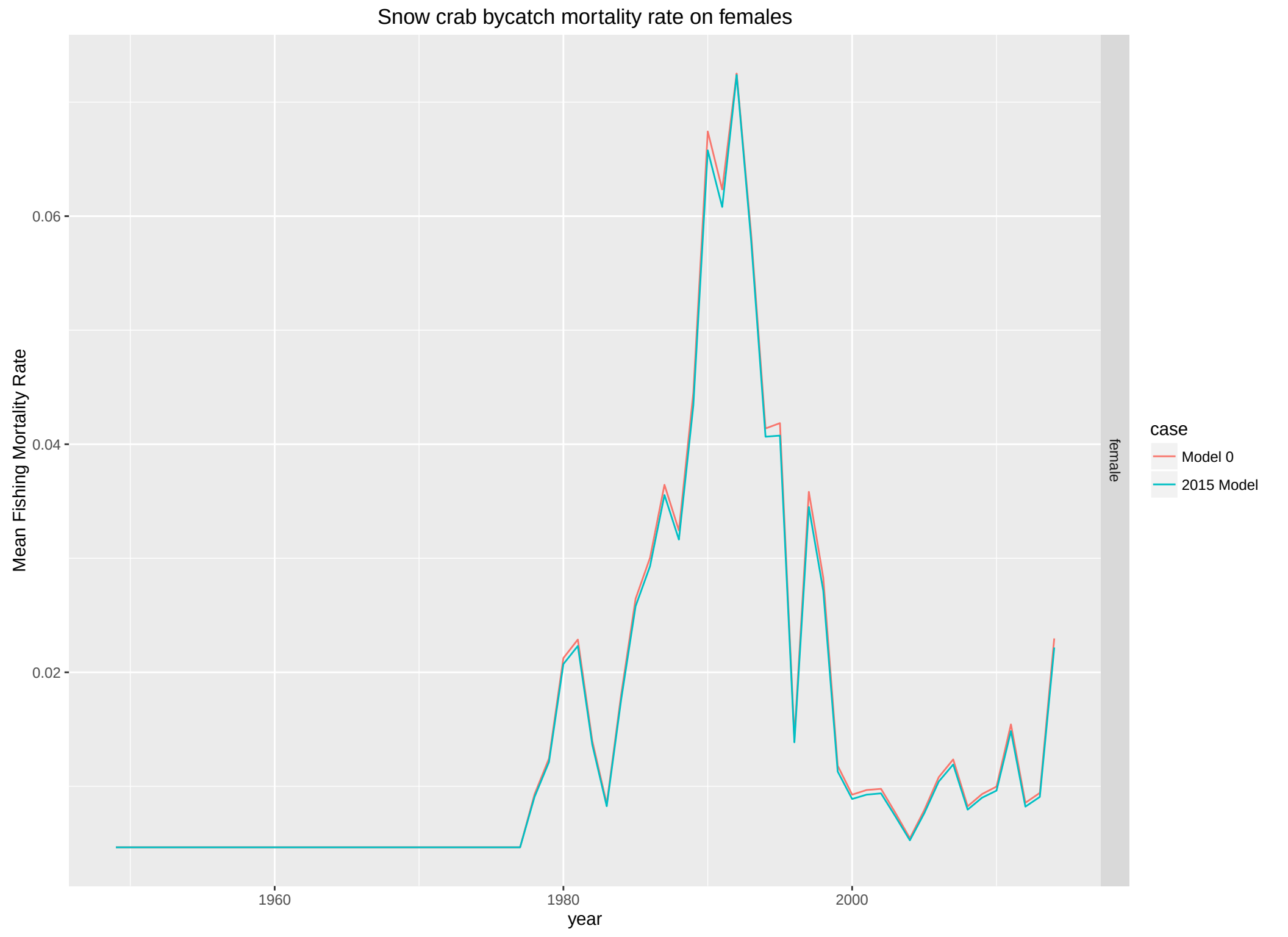

Snow crab bycatch mortality rate on males
0.16
0.12
0.08
0.04
Fully−selected Fishing Mortality Rate
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

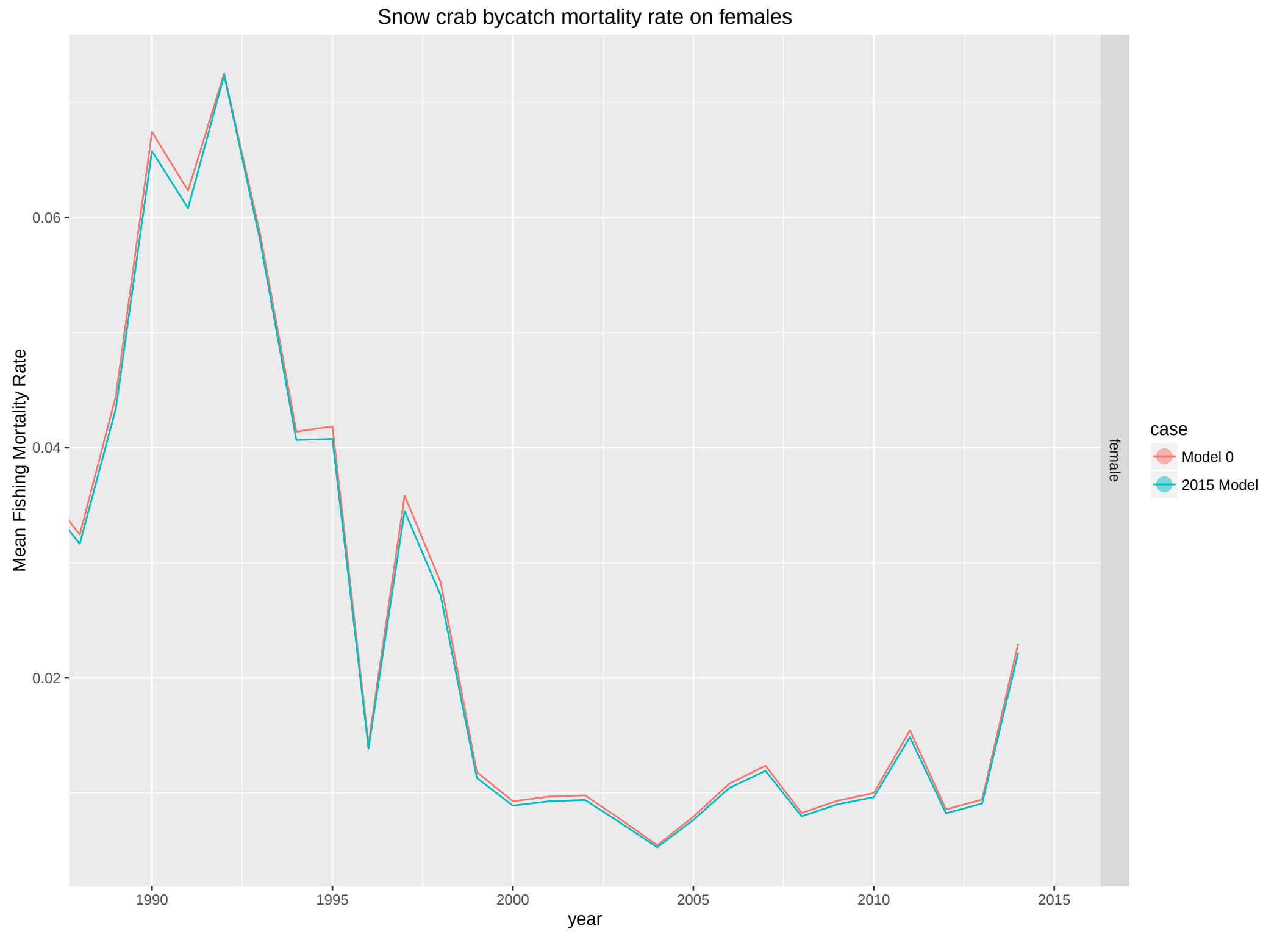

Snow crab bycatch mortality rate on males
Mean Fishing Mortality Rate
0.05
0.04
0.03
0.02
0.01
0.00
1960
1980
2000
year
male
case
Model 0
2015 Model

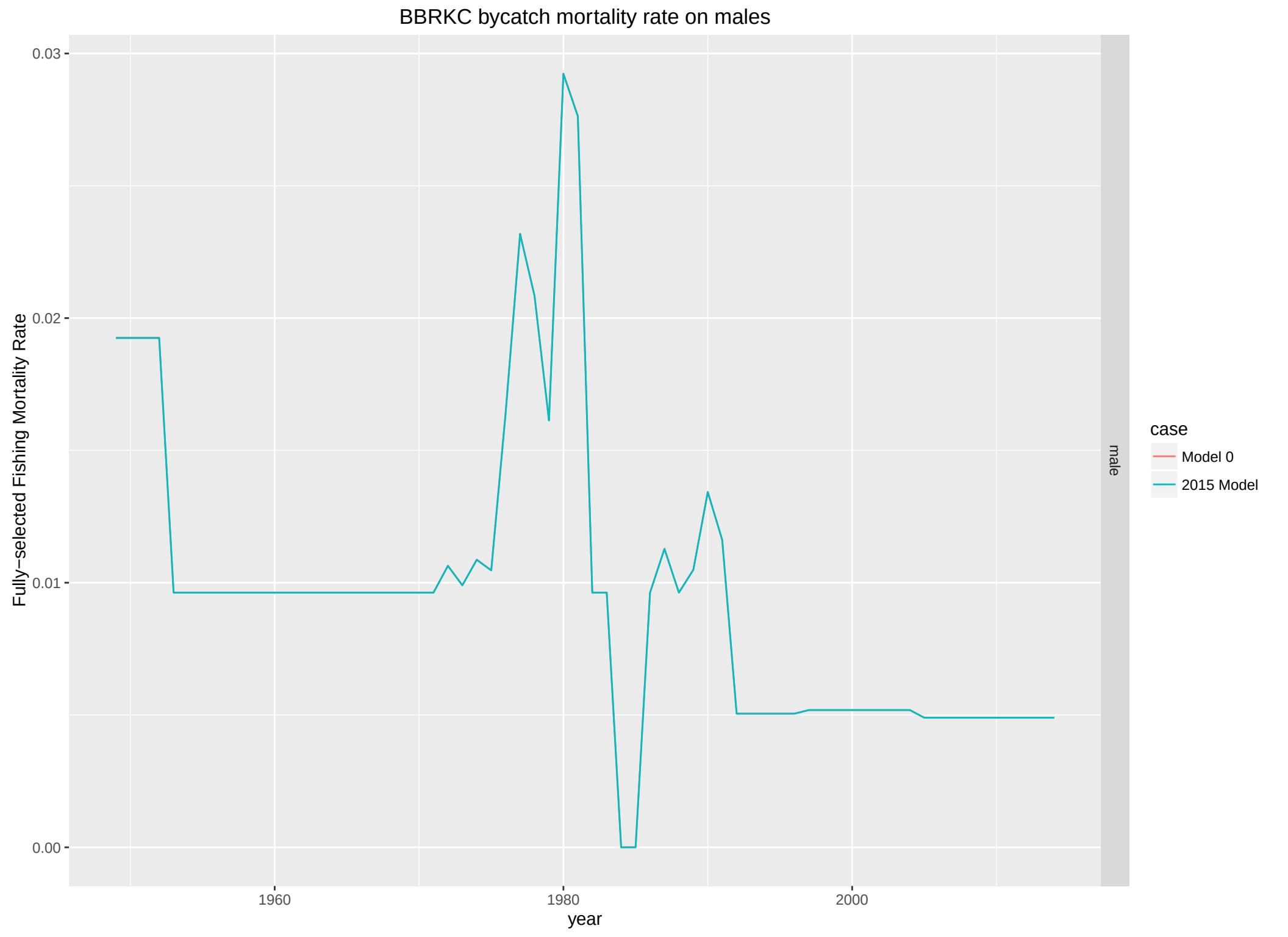

Snow crab bycatch mortality rate on males
Mean Fishing Mortality Rate
0.05
0.04
0.03
0.02
0.01
0.00
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

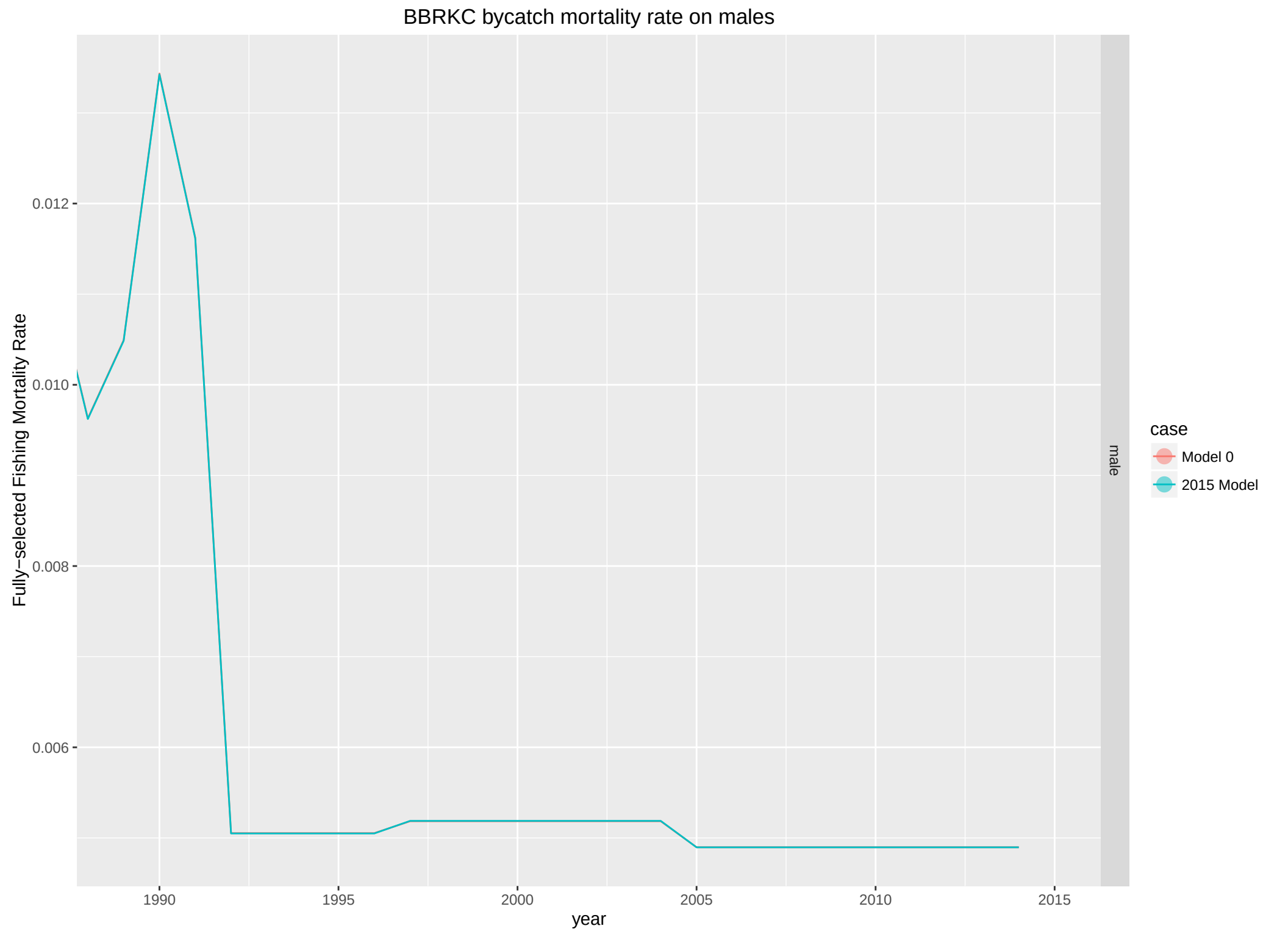

Snow crab bycatch mortality rate on females
Fully−selected Fishing Mortality Rate
0.12
0.08
0.04
1960
1980
2000
year
female
case
Model 0
2015 Model

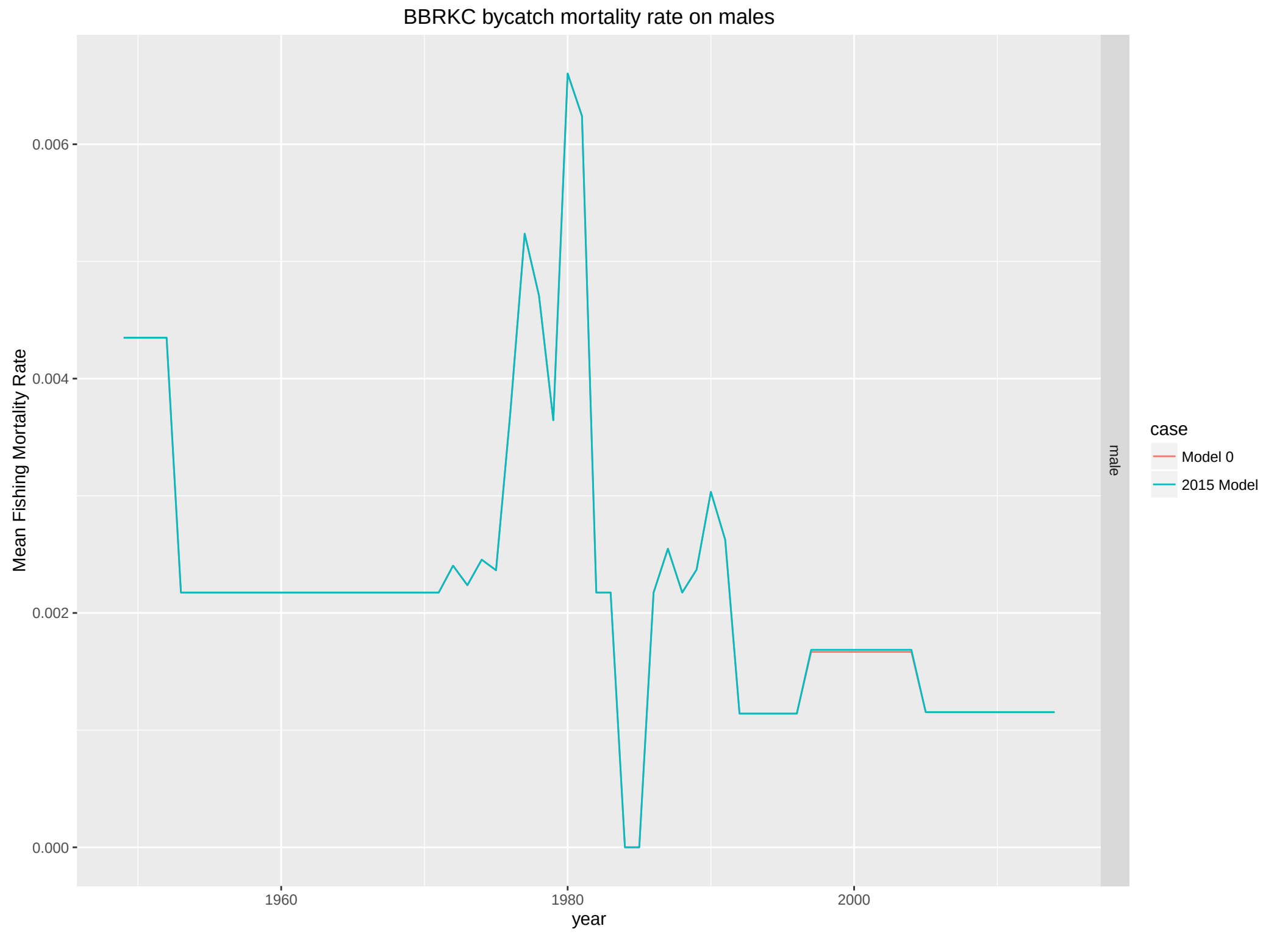

Snow crab bycatch mortality rate on females
Fully−selected Fishing Mortality Rate
0.12
0.08
0.04
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
2015 Model

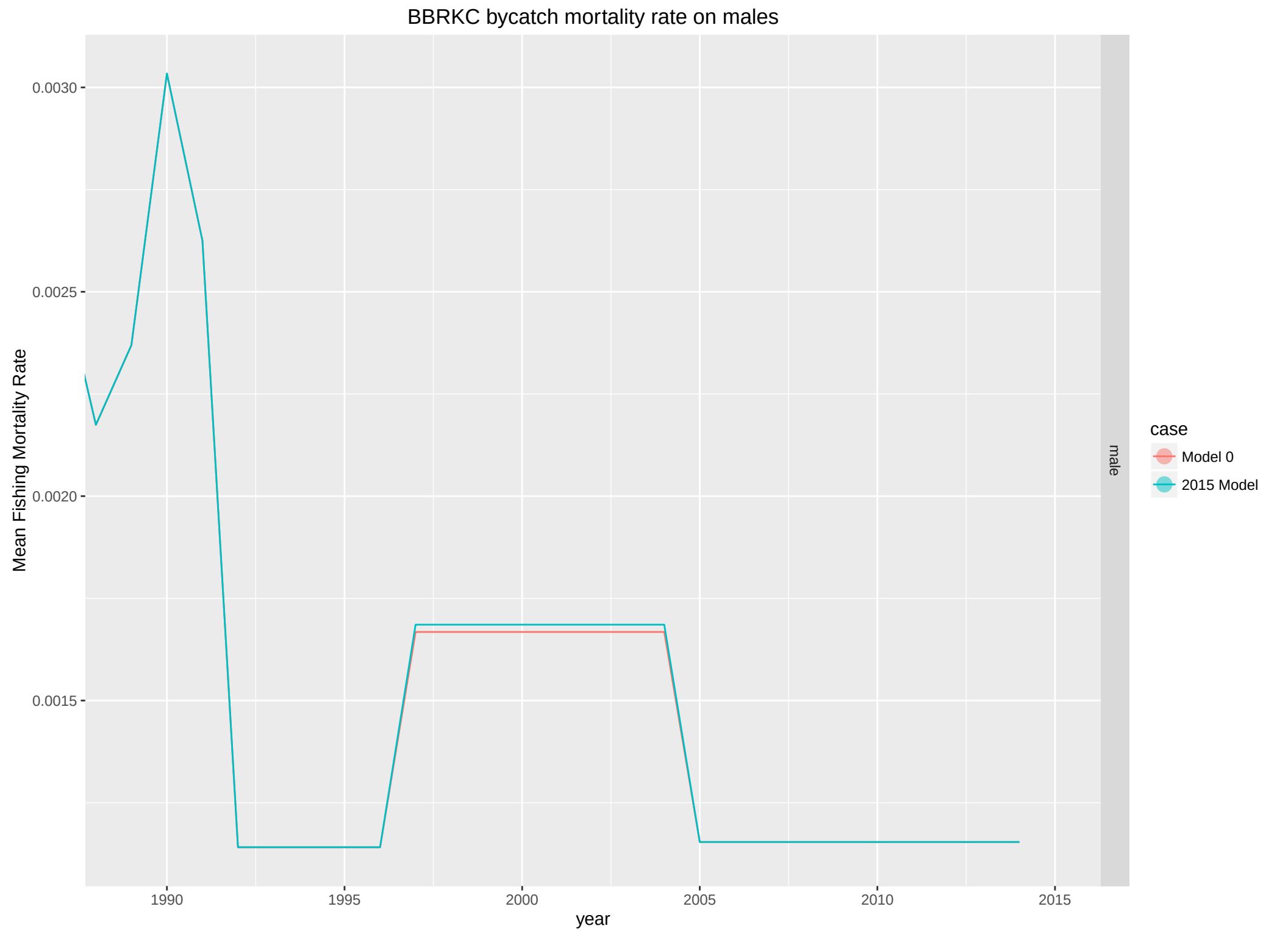

Snow crab bycatch mortality rate on females
Mean Fishing Mortality Rate
0.06
0.04
0.02
1960
1980
2000
year
female
case
Model 0
2015 Model

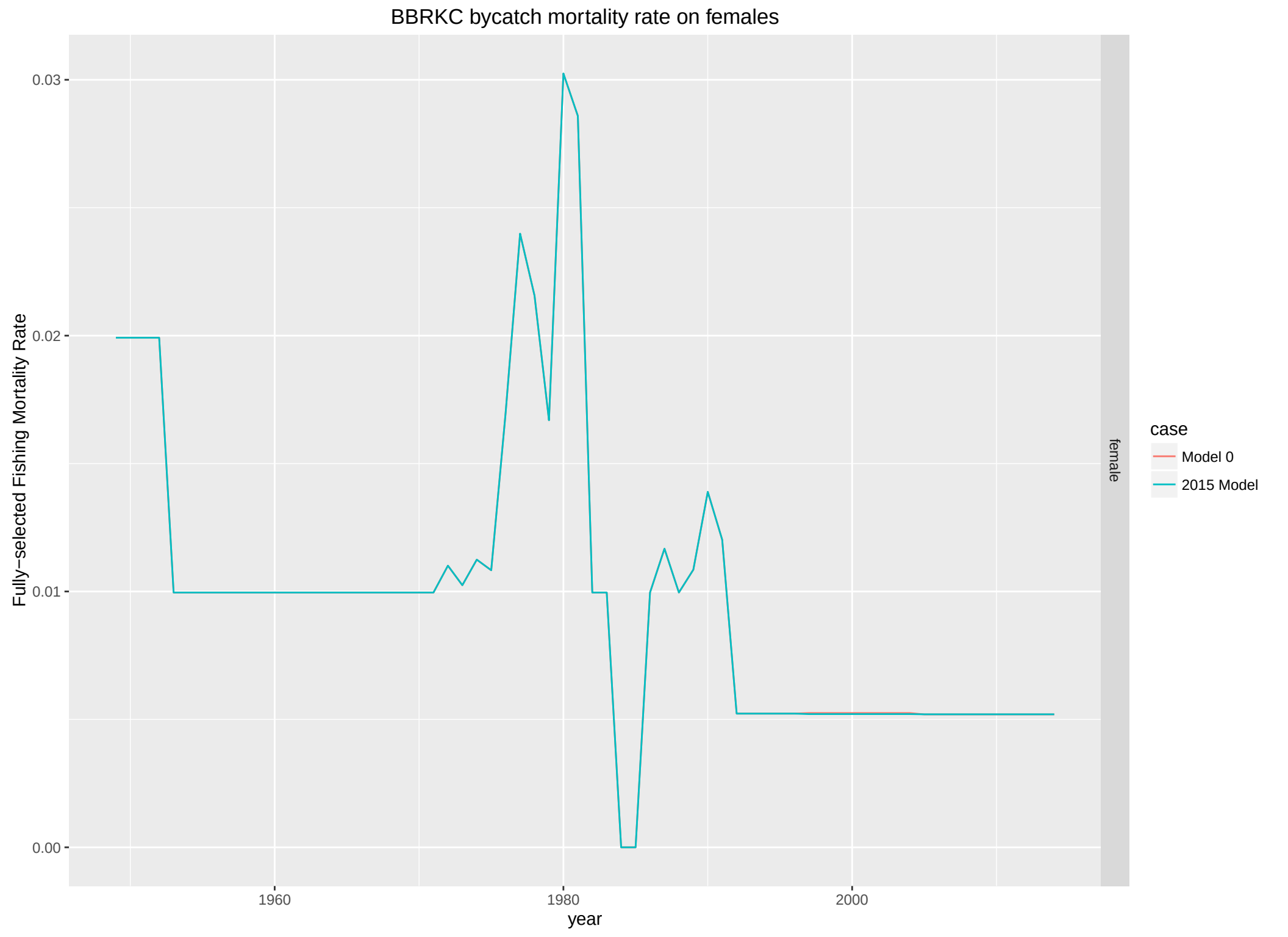

Snow crab bycatch mortality rate on females
Mean Fishing Mortality Rate
0.06
0.04
0.02
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
2015 Model

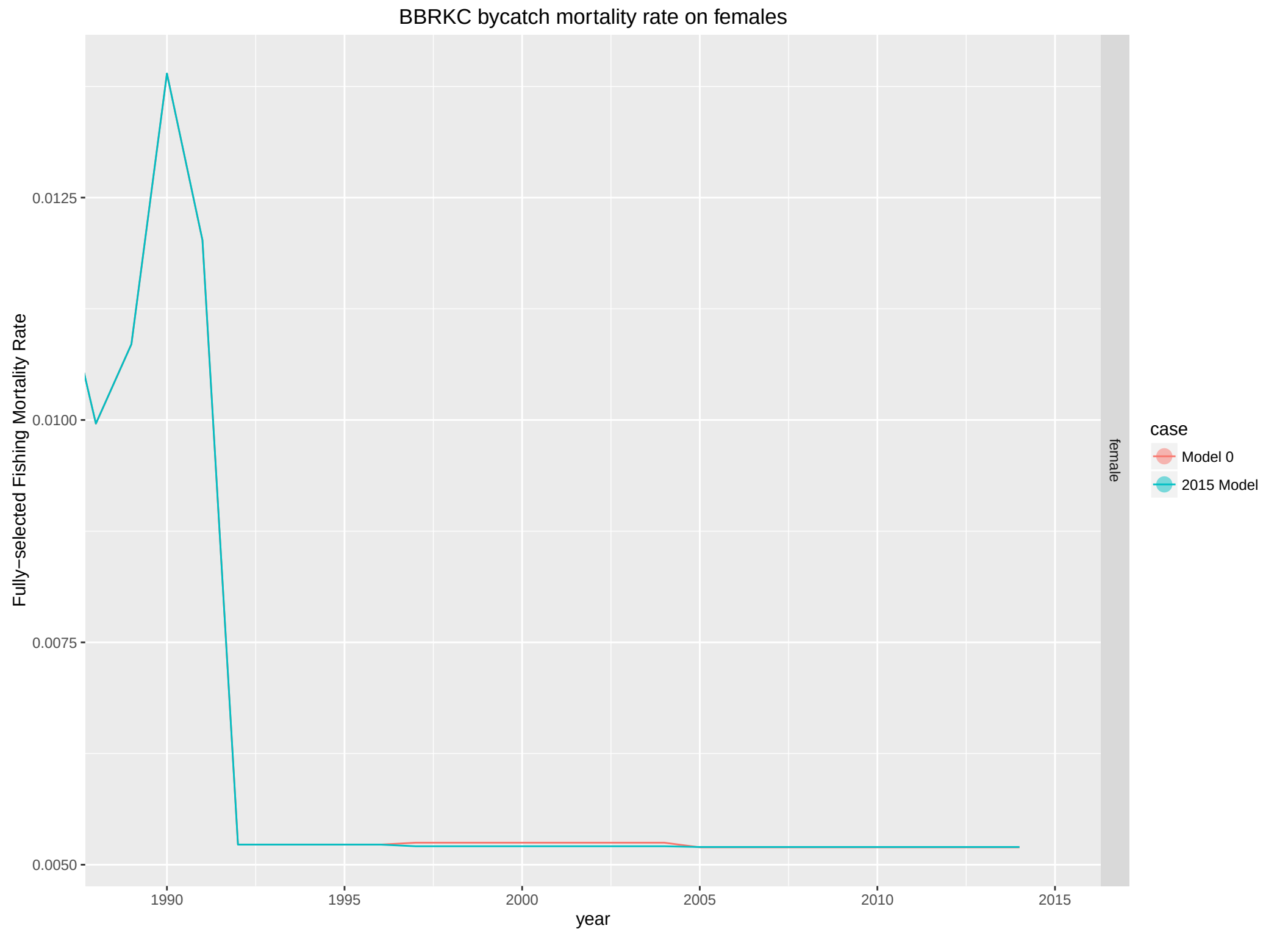

BBRKC bycatch mortality rate on males
Fully−selected Fishing Mortality Rate
0.03
0.02
0.01
0.00
1960
1980
2000
year
male
case
Model 0
2015 Model

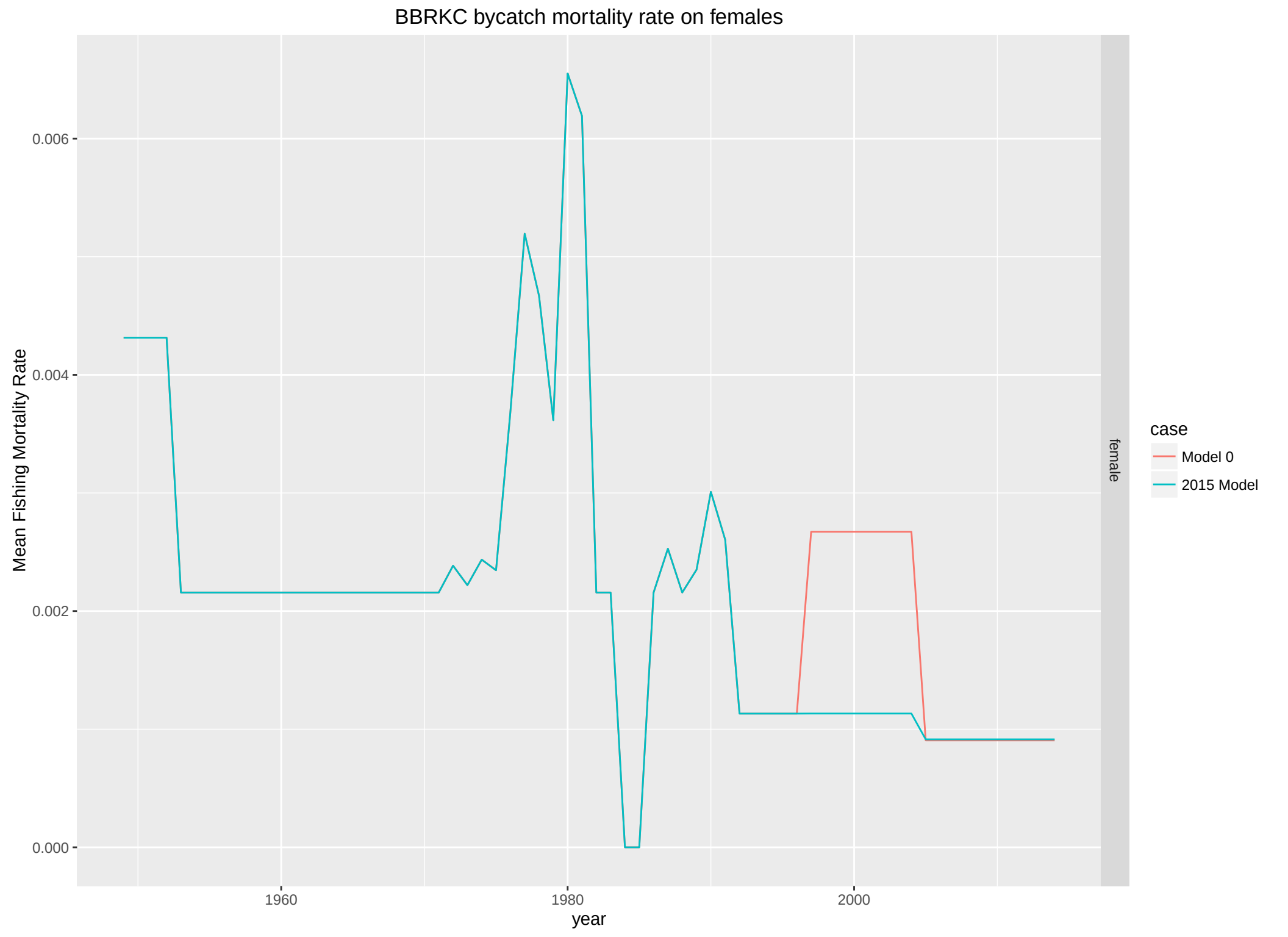

BBRKC bycatch mortality rate on males
Fully−selected Fishing Mortality Rate
0.012
0.010
0.008
0.006
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

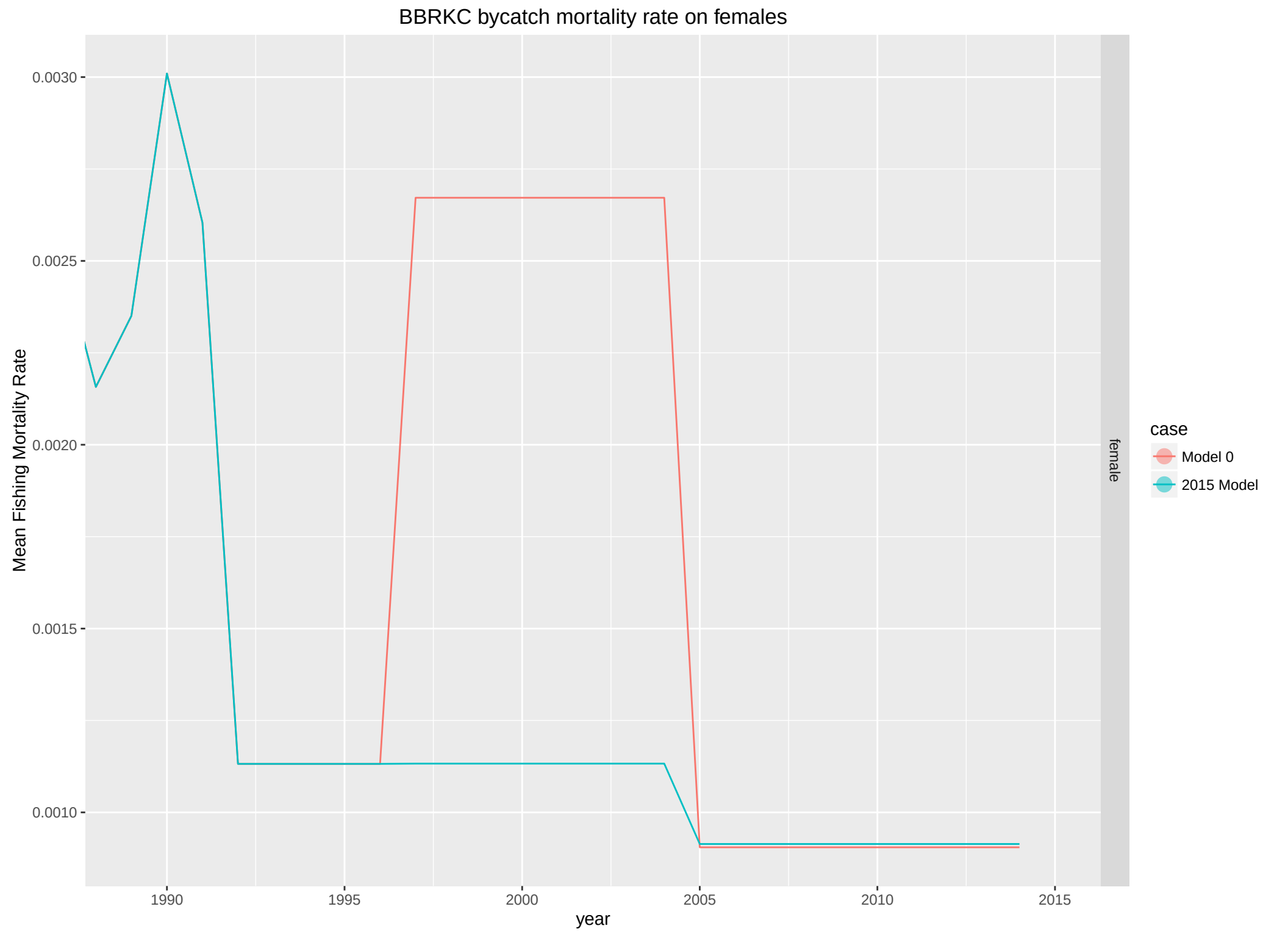

BBRKC bycatch mortality rate on males
Mean Fishing Mortality Rate
0.006
0.004
0.002
0.000
1960
1980
2000
year
male
case
Model 0
2015 Model

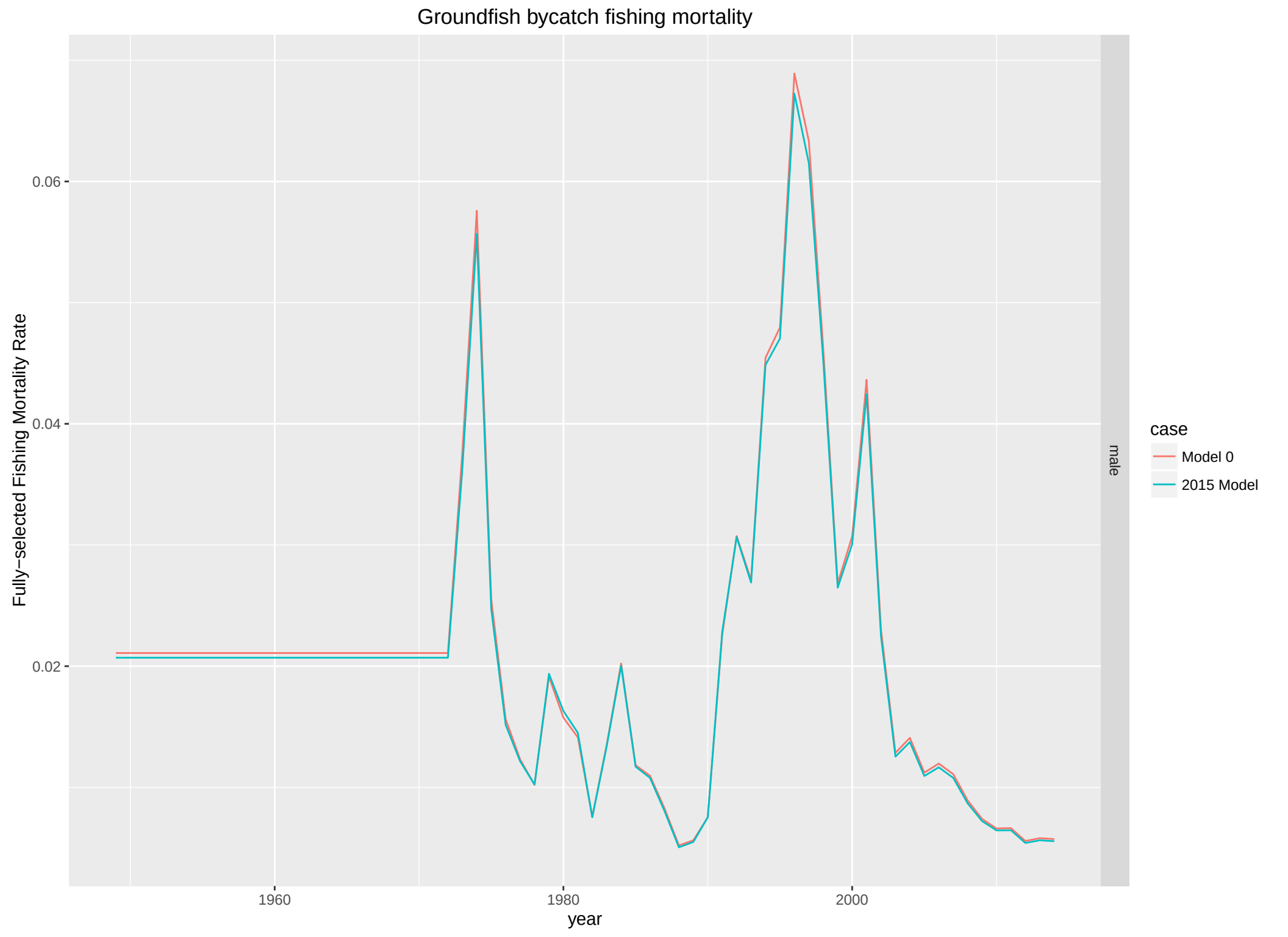

BBRKC bycatch mortality rate on males
Mean Fishing Mortality Rate
0.0030
0.0025
0.0020
0.0015
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

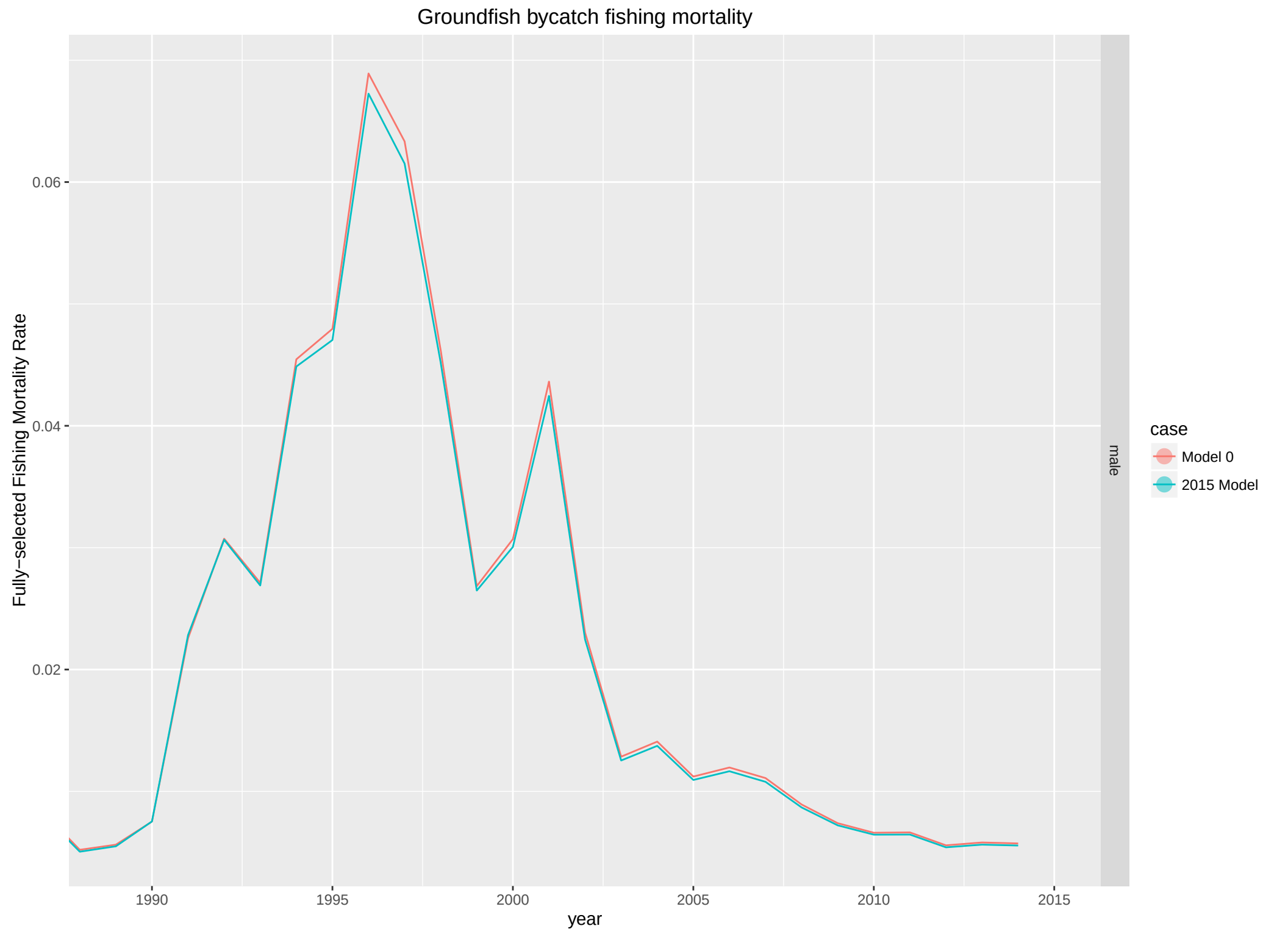

BBRKC bycatch mortality rate on females
Fully−selected Fishing Mortality Rate
0.03
0.02
0.01
0.00
1960
1980
2000
year
female
case
Model 0
2015 Model

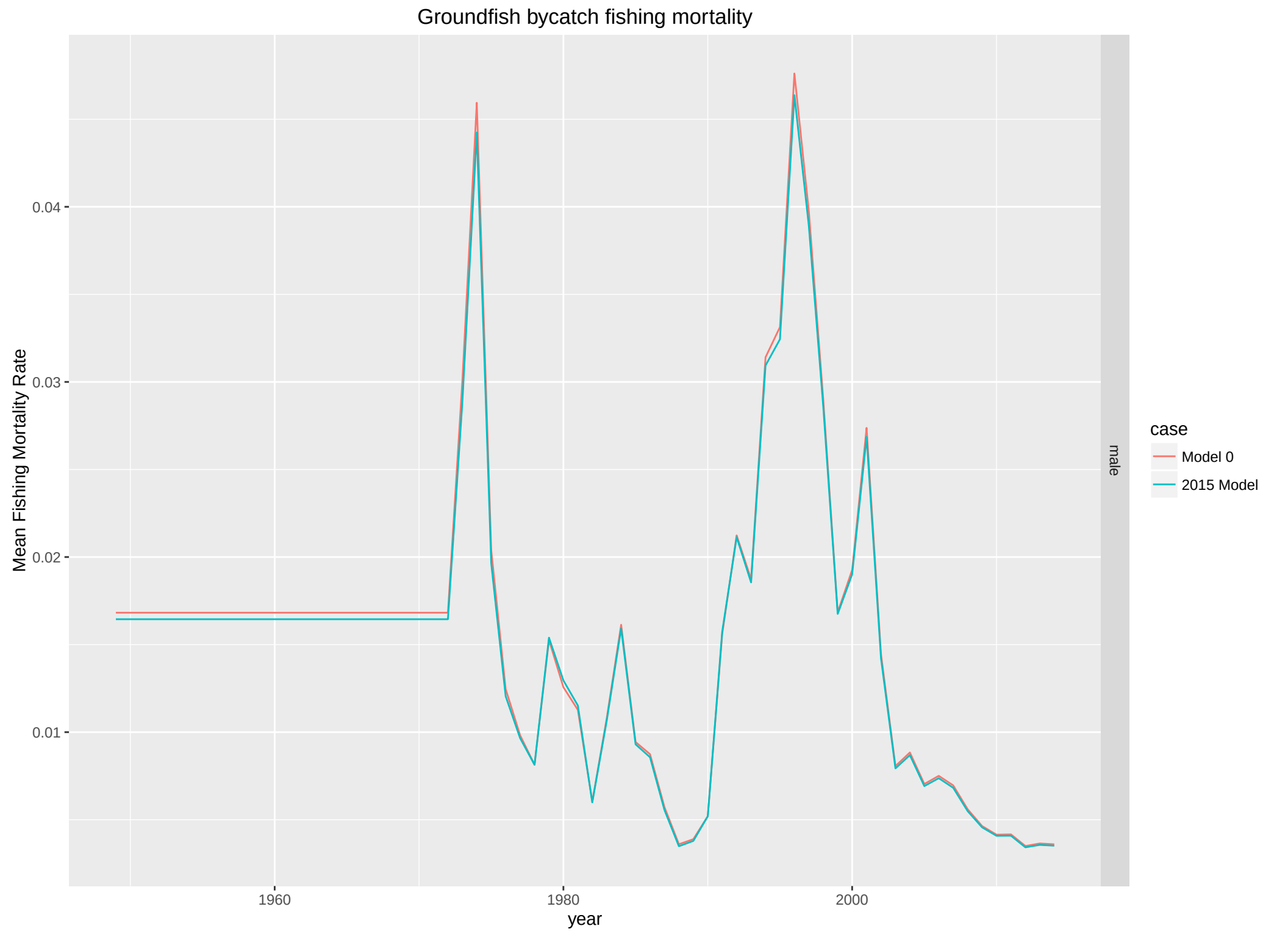

BBRKC bycatch mortality rate on females
Fully−selected Fishing Mortality Rate
0.0125
0.0100
0.0075
0.0050
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
2015 Model

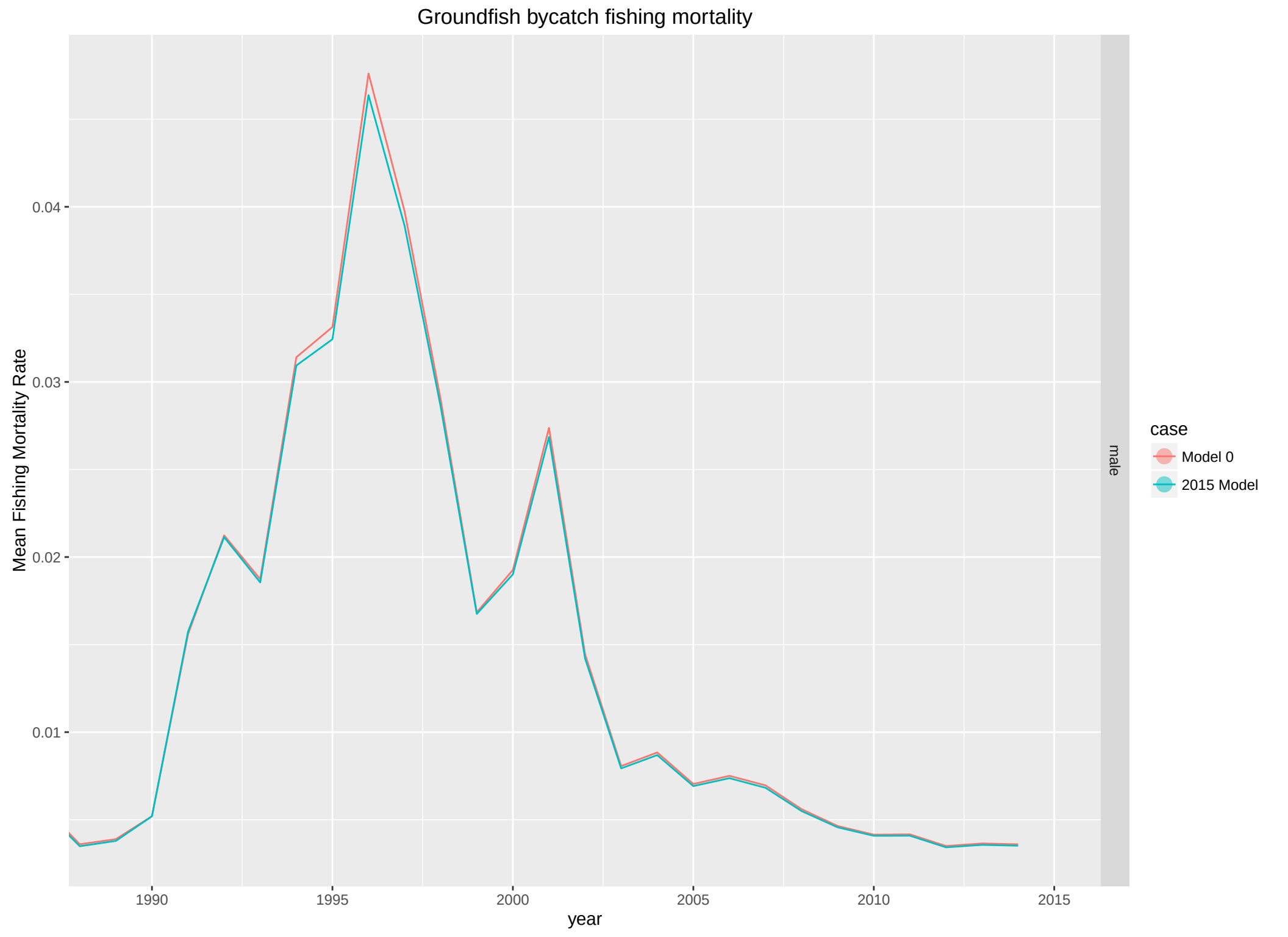

BBRKC bycatch mortality rate on females
Mean Fishing Mortality Rate
0.006
0.004
0.002
0.000
1960
1980
2000
year
female
case
Model 0
2015 Model


BBRKC bycatch mortality rate on females
Mean Fishing Mortality Rate
0.0030
0.0025
0.0020
0.0015
0.0010
1990
1995
2000
2005
2010
2015
year
female
case
Model 0
2015 Model


Groundfish bycatch fishing mortality
Fully−selected Fishing Mortality Rate
0.06
0.04
0.02
1960
1980
2000
year
male
case
Model 0
2015 Model

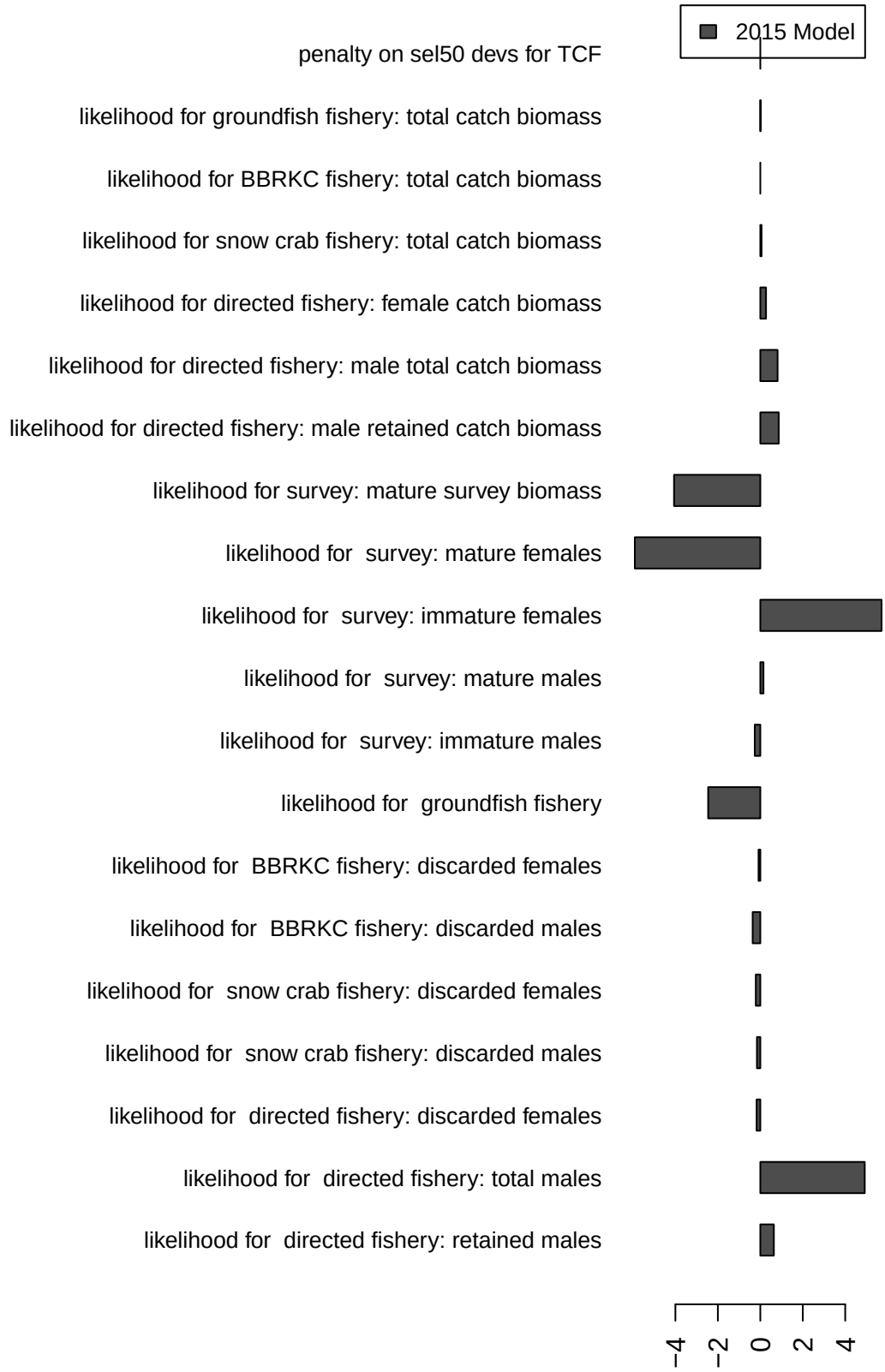

Groundfish bycatch fishing mortality
Fully−selected Fishing Mortality Rate
0.06
0.04
0.02
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

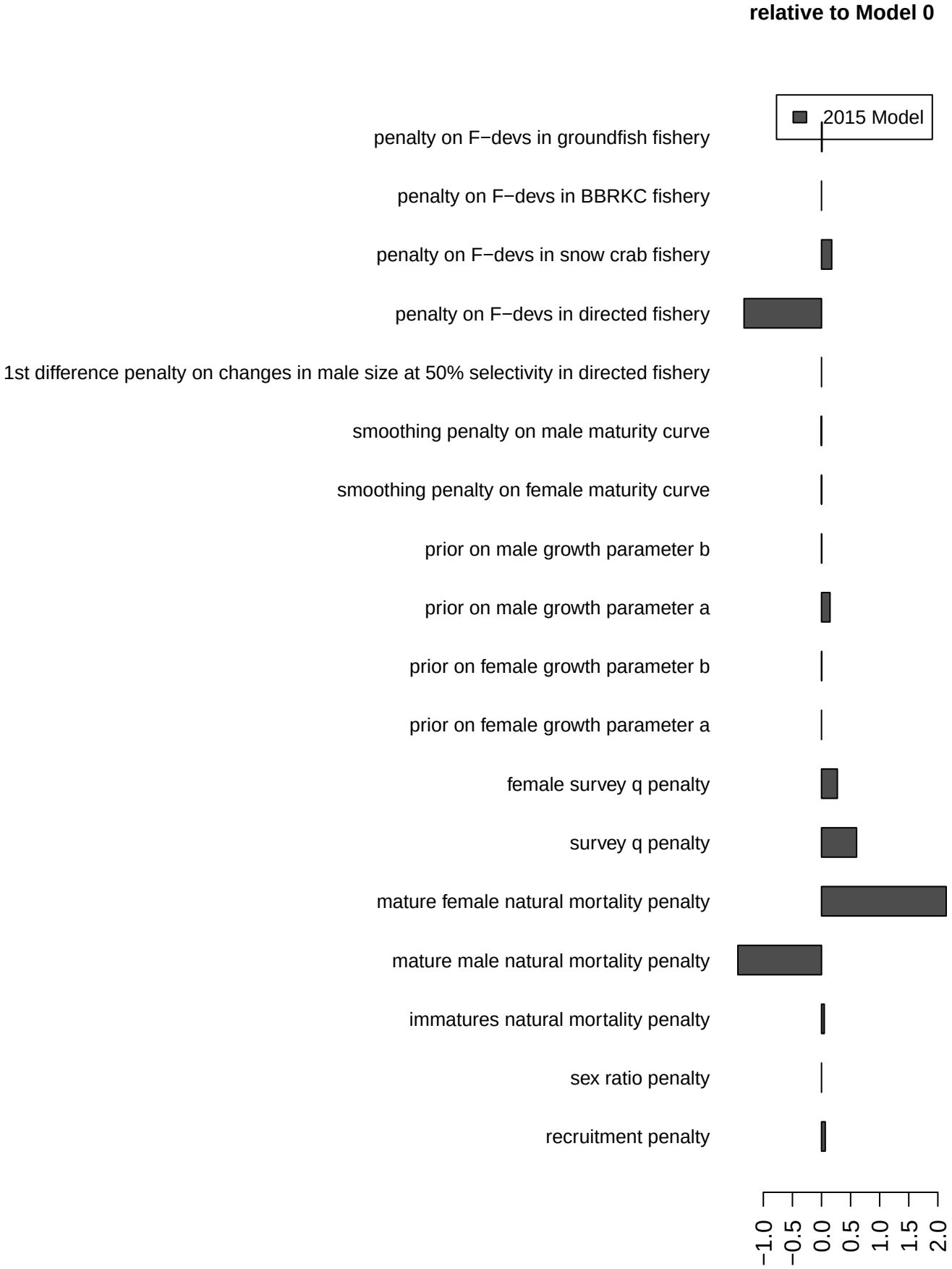

Groundfish bycatch fishing mortality
Mean Fishing Mortality Rate
0.04
0.03
0.02
0.01
1960
1980
2000
year
male
case
Model 0
2015 Model

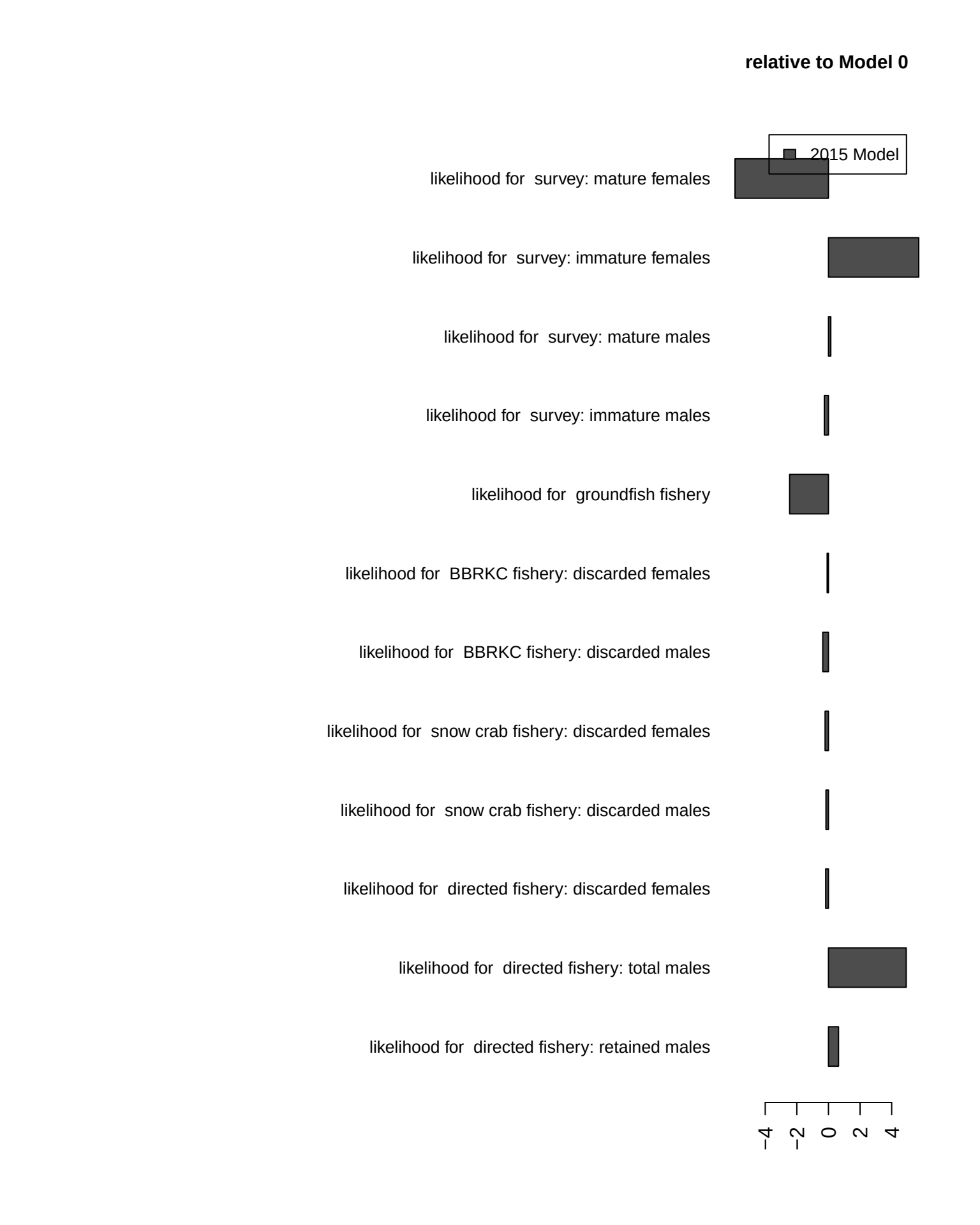

Groundfish bycatch fishing mortality
Mean Fishing Mortality Rate
0.04
0.03
0.02
0.01
1990
1995
2000
2005
2010
2015
year
male
case
Model 0
2015 Model

relative to Model 0

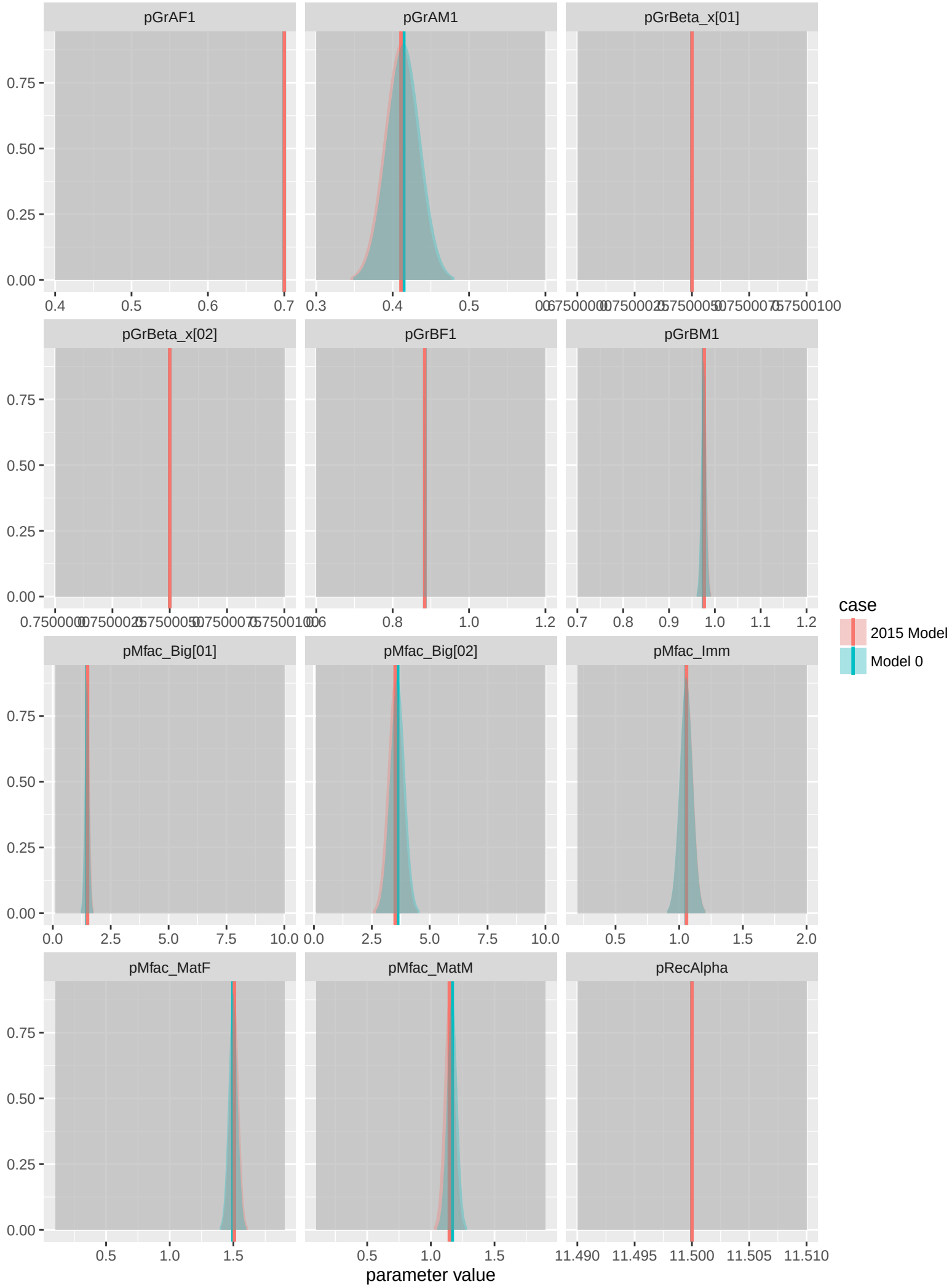
relative to Model 0

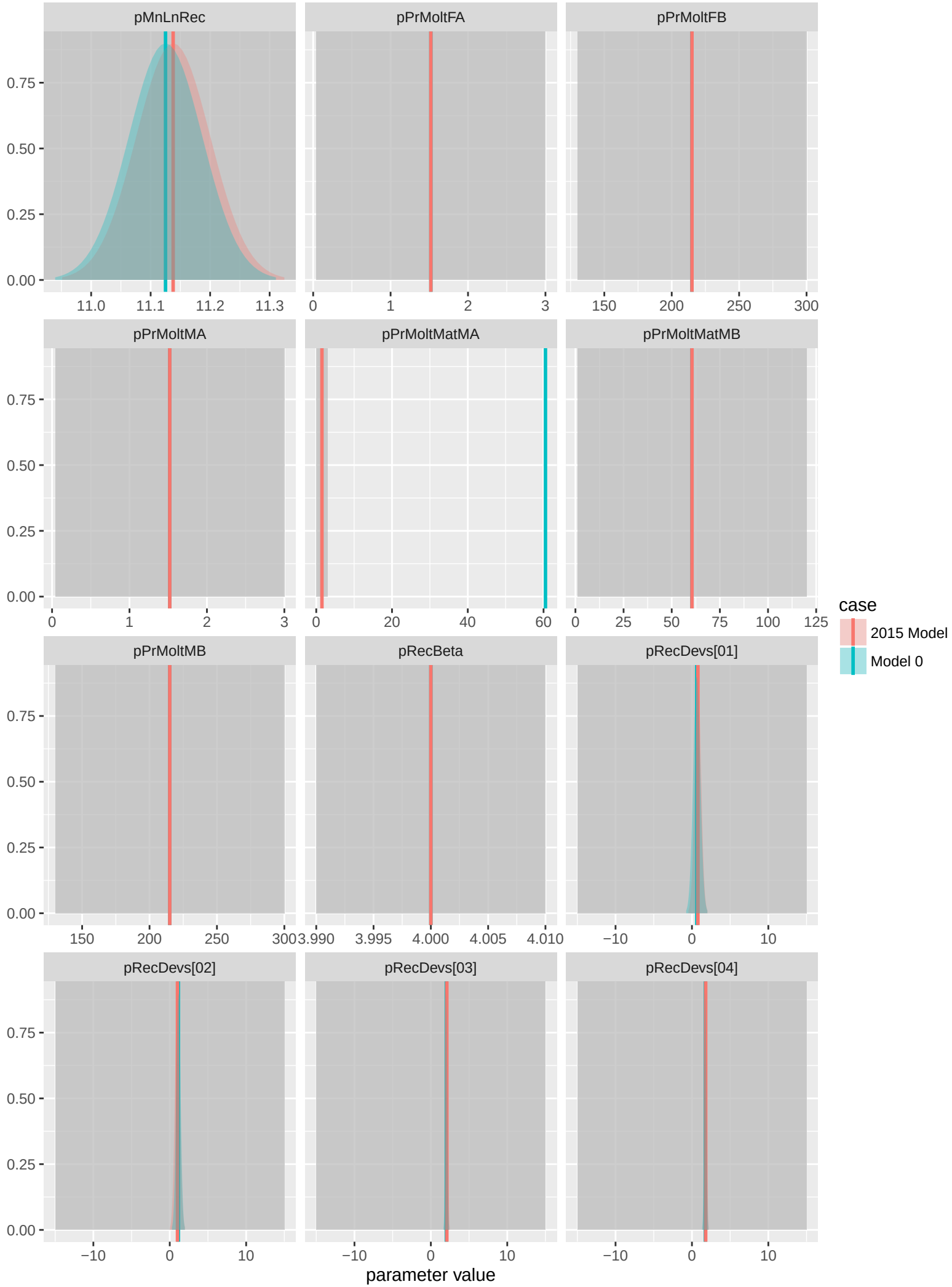


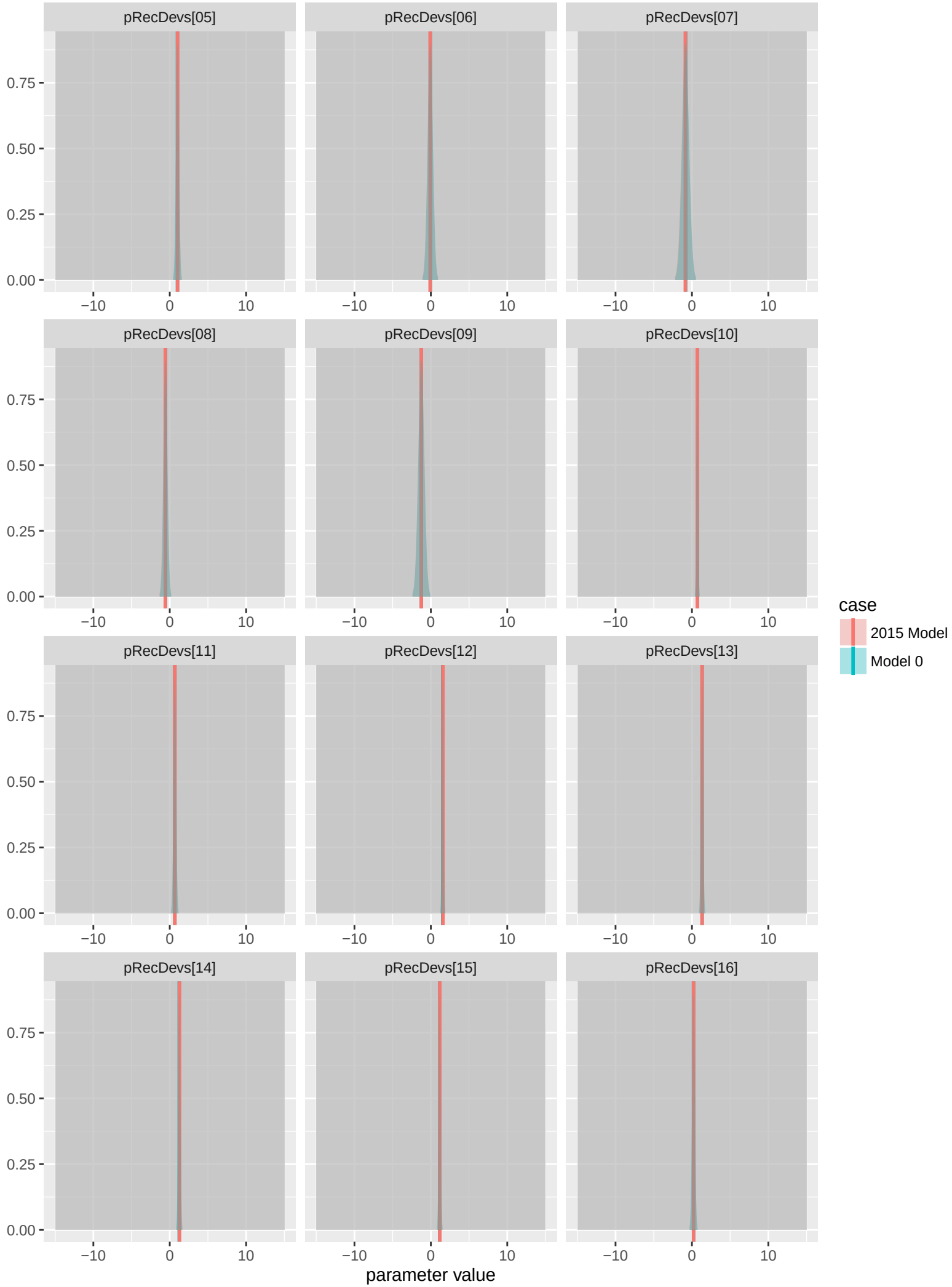

relative to Model 0
2015 Model
penalty on F−devs in groundfish fishery
penalty on F−devs in BBRKC fishery
penalty on F−devs in snow crab fishery
penalty on F−devs in directed fishery
1st difference penalty on changes in male size at 50% selectivity in directed fishery
smoothing penalty on male maturity curve
smoothing penalty on female maturity curve
prior on male growth parameter b
prior on male growth parameter a
prior on female growth parameter b
prior on female growth parameter a
female survey q penalty
survey q penalty
mature female natural mortality penalty
mature male natural mortality penalty
immatures natural mortality penalty
sex ratio penalty
recruitment penalty
−1.0
−0.5
0.0
0.5
1.0
1.5
2.0

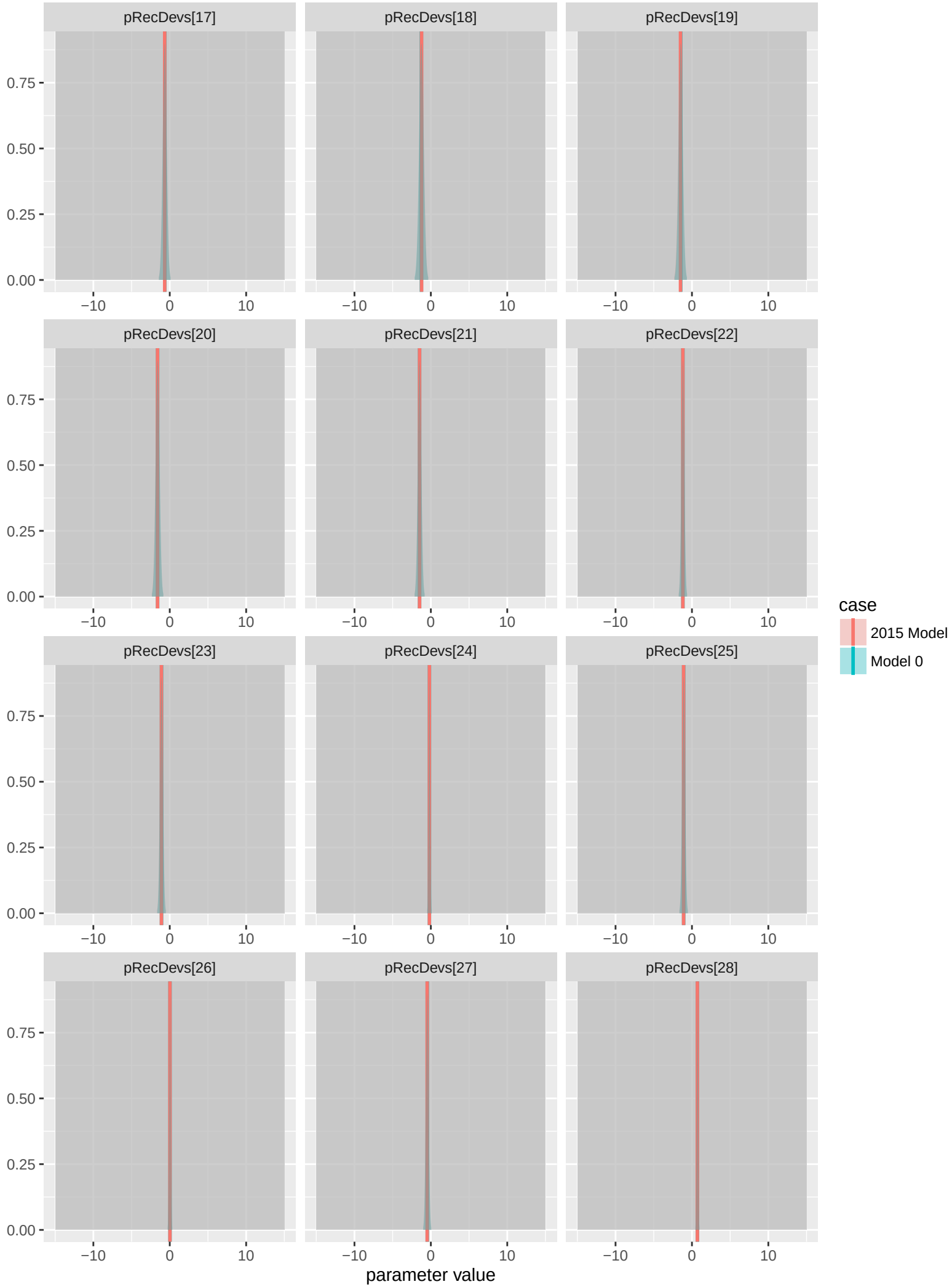

relative to Model 0
2015 Model
likelihood for survey: mature females
likelihood for survey: immature females
likelihood for survey: mature males
likelihood for survey: immature males
likelihood for groundfish fishery
likelihood for BBRKC fishery: discarded females
likelihood for BBRKC fishery: discarded males
likelihood for snow crab fishery: discarded females
likelihood for snow crab fishery: discarded males
likelihood for directed fishery: discarded females
likelihood for directed fishery: total males
likelihood for directed fishery: retained males
−4
−2
0
2
4

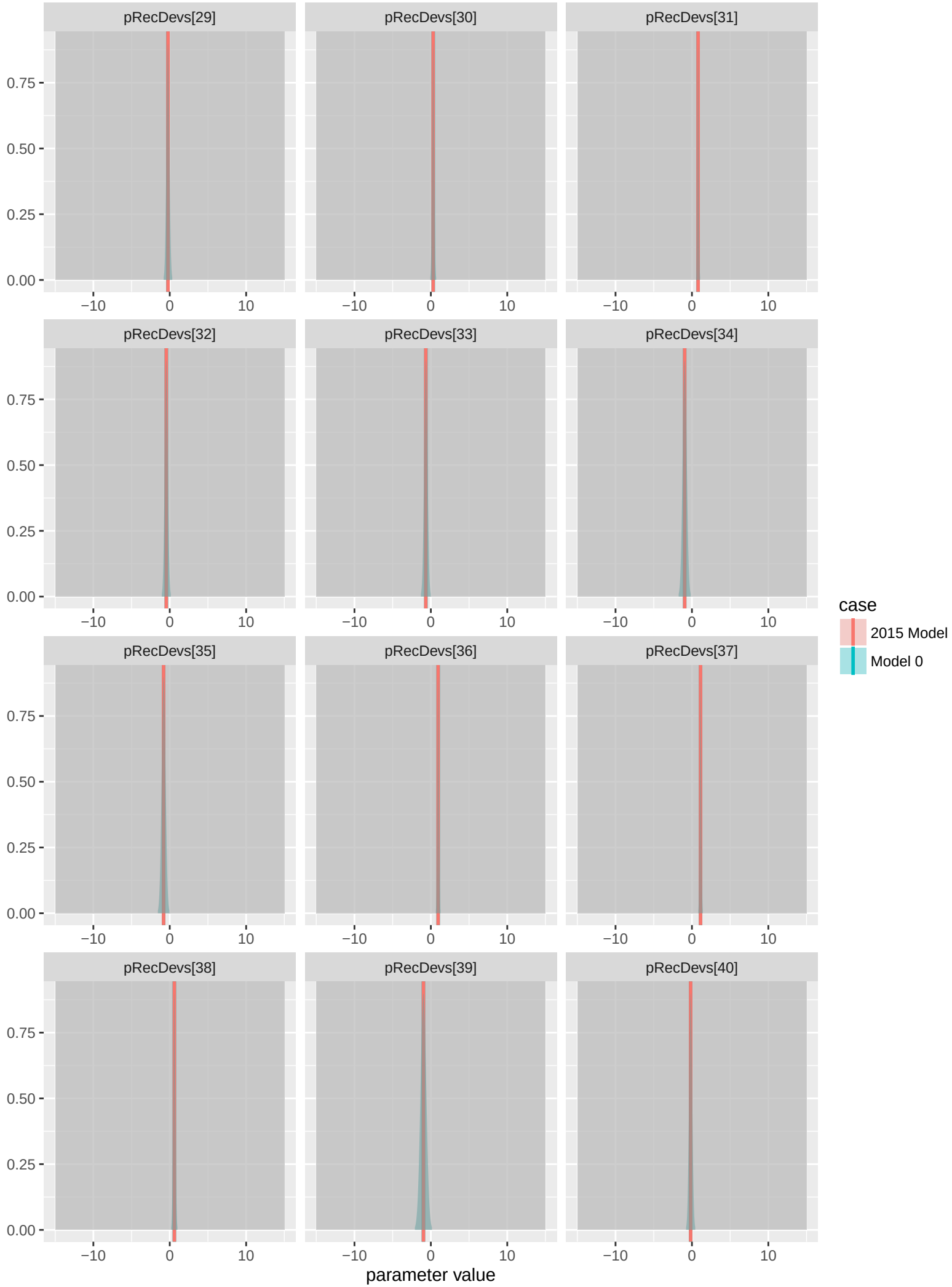
relative to Model 0
2015 Model
penalty on sel50 devs for TCF
likelihood for groundfish fishery: total catch biomass
likelihood for BBRKC fishery: total catch biomass
likelihood for snow crab fishery: total catch biomass
likelihood for directed fishery: female catch biomass
likelihood for directed fishery: male total catch biomass
likelihood for directed fishery: male retained catch biomass
likelihood for survey: mature survey biomass
−4
−3
−2
−1
0

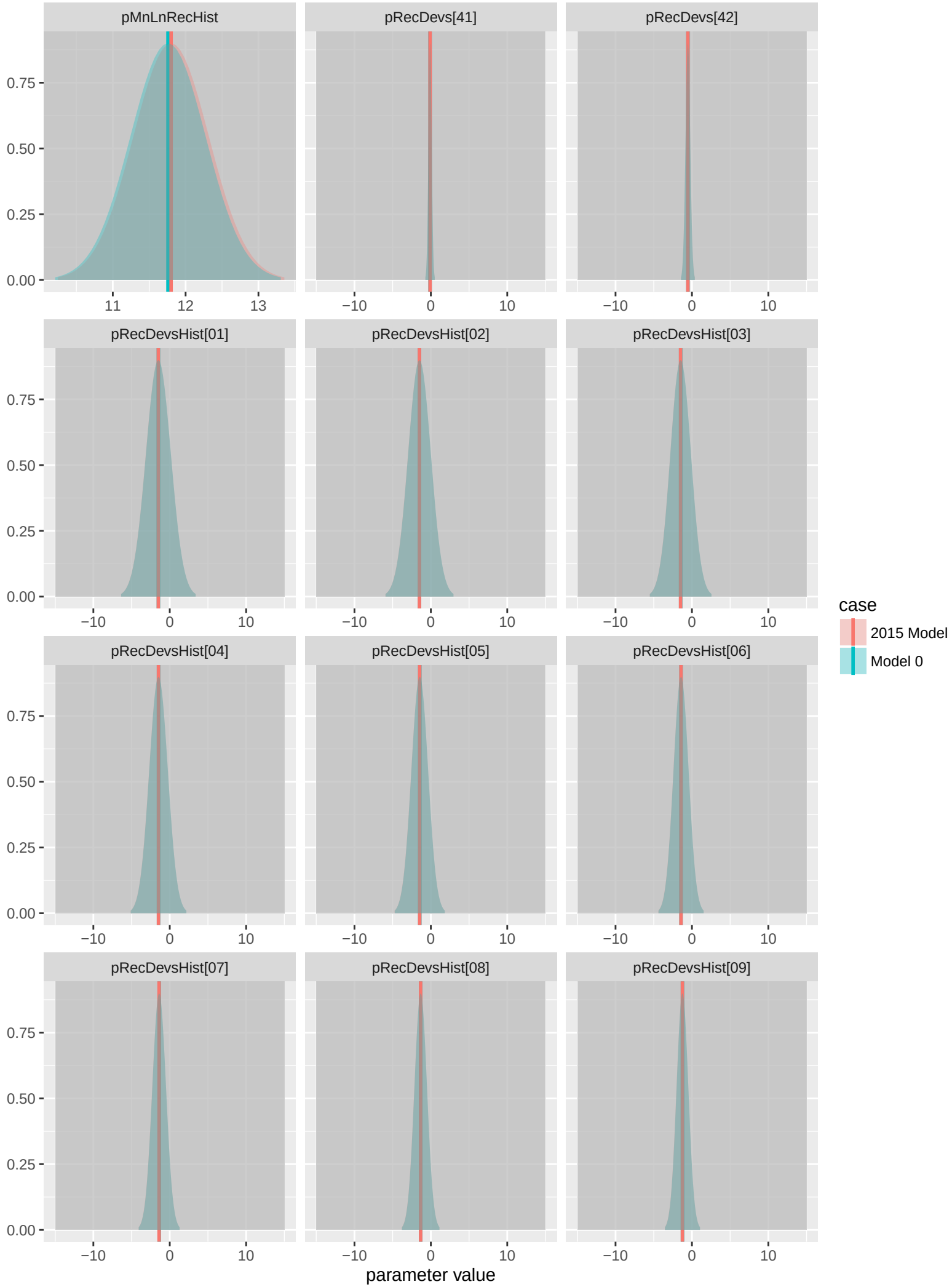

pGrAF1
pGrAM1
pGrBeta_x[01]
pGrBeta_x[02]
pGrBF1
pGrBM1
pMfac_Big[01]
pMfac_Big[02]
pMfac_Imm
pMfac_MatF
pMfac_MatM
pRecAlpha
case
2015 Model
Model 0
parameter value

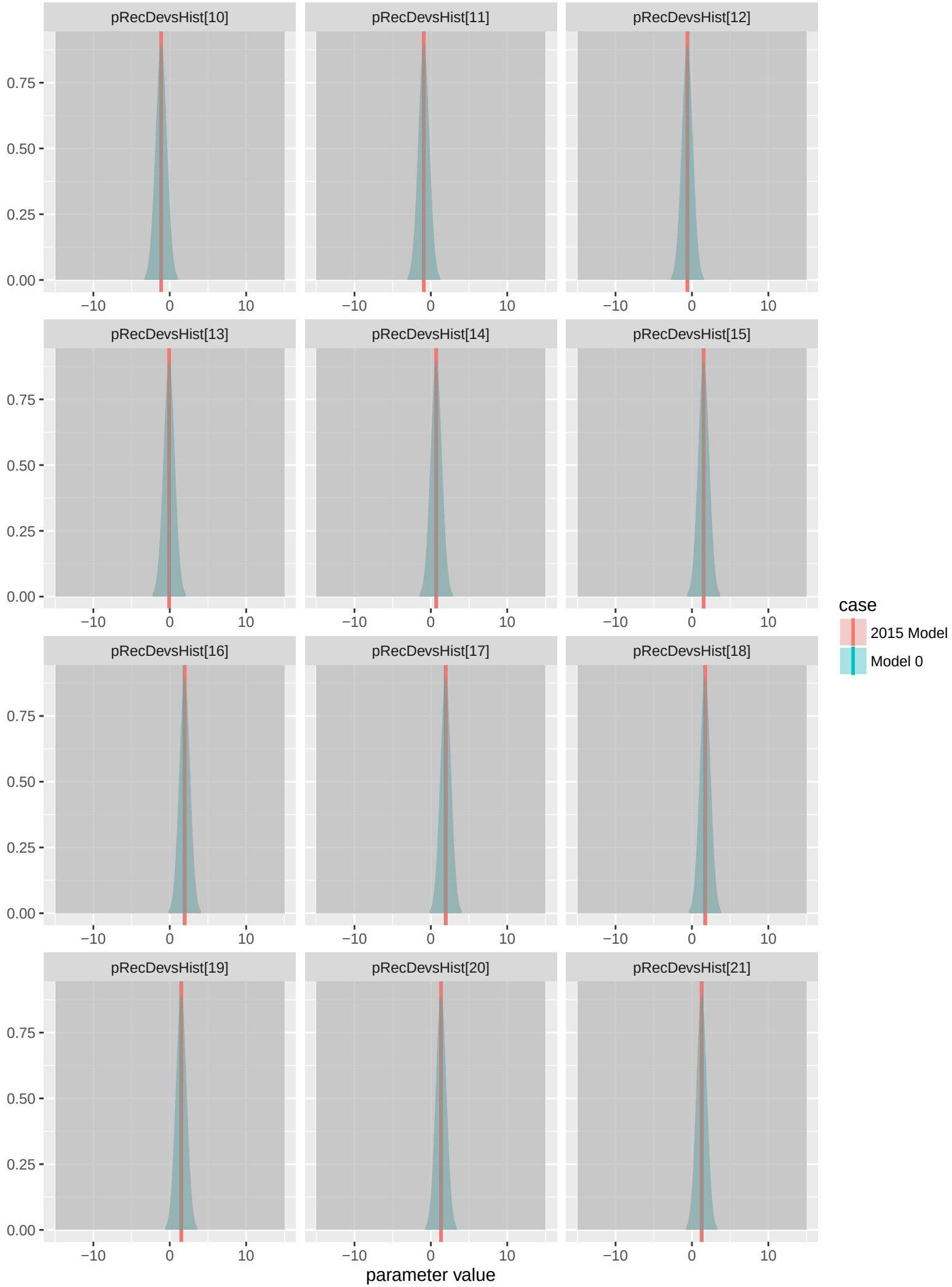

pMnLnRec
pPrMoltFA
pPrMoltFB
pPrMoltMA
pPrMoltMatMA
pPrMoltMatMB
pPrMoltMB
pRecBeta
pRecDevs[01]
pRecDevs[02]
pRecDevs[03]
pRecDevs[04]
0.00
0.25
0.50
0.75
11.0
11.1
11.2
11.3
0
1
2
3
150
200
250
300
0
20
40
60
0
25
50
75
100
125
3.990
3.995
4.000
4.005
4.010
−10
0
10
case
2015 Model
Model 0
parameter value

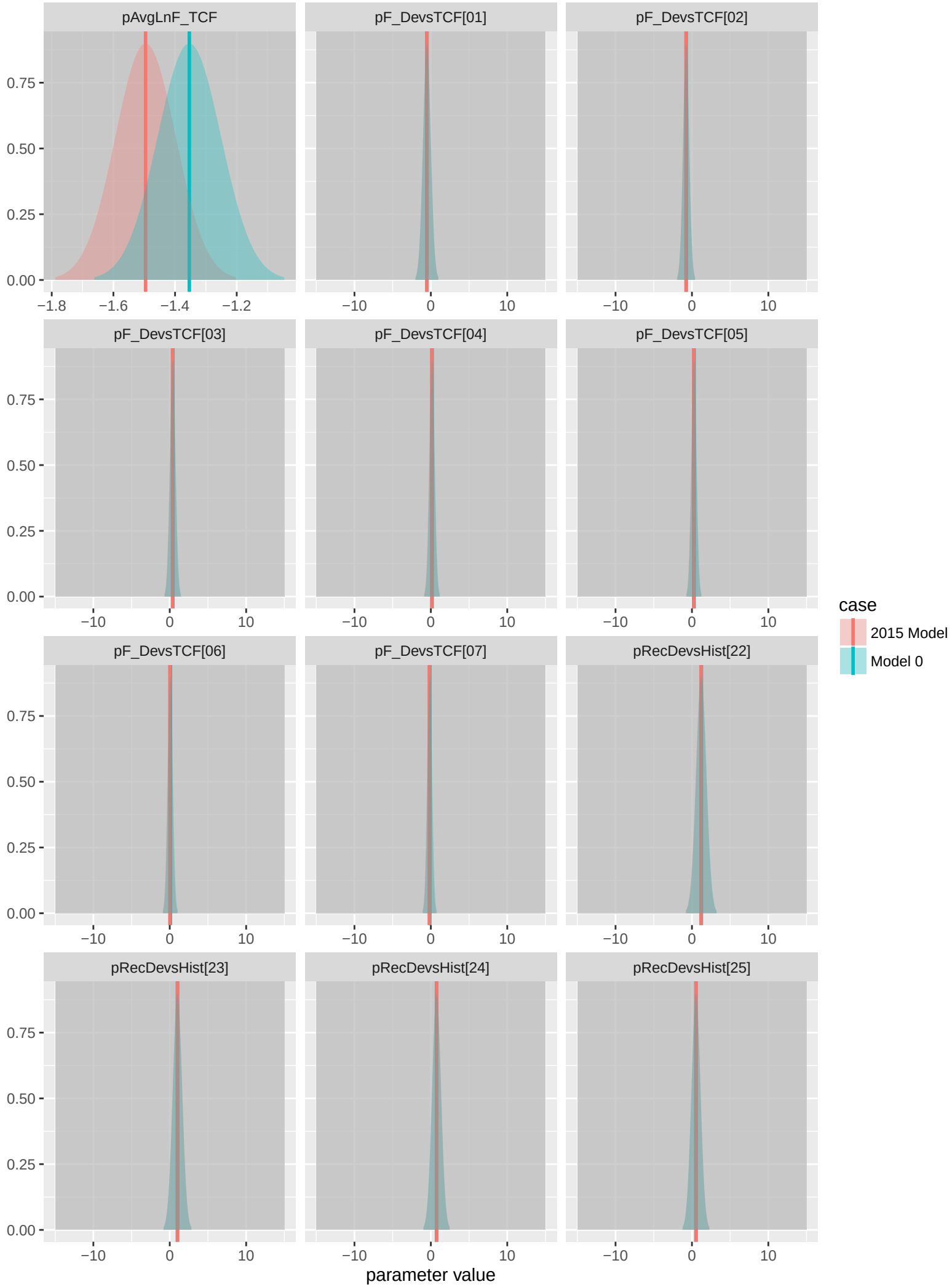

pRecDevs[05]
pRecDevs[06]
pRecDevs[07]
pRecDevs[08]
pRecDevs[09]
pRecDevs[10]
pRecDevs[11]
pRecDevs[12]
pRecDevs[13]
pRecDevs[14]
pRecDevs[15]
pRecDevs[16]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

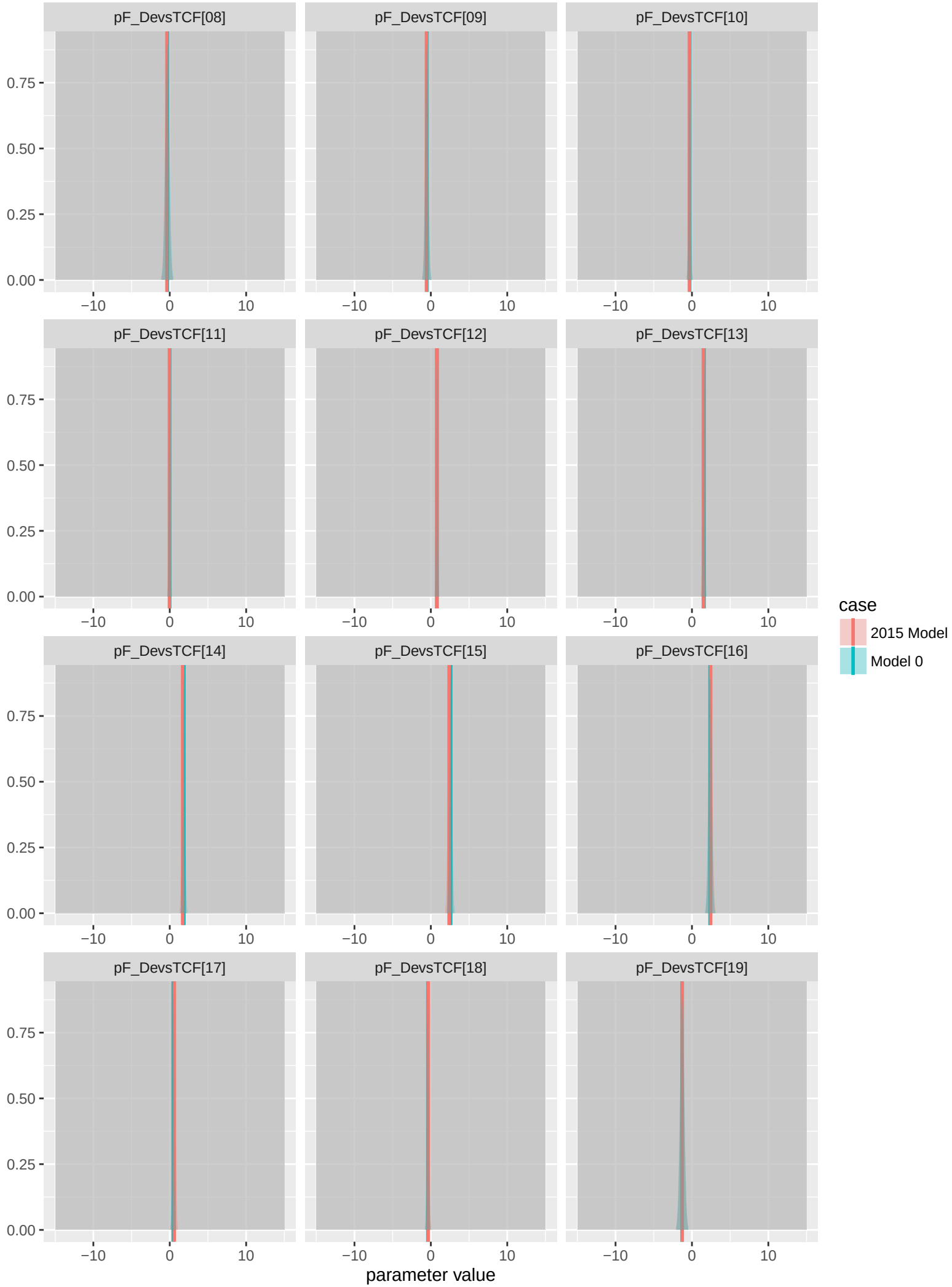

pRecDevs[17]
pRecDevs[18]
pRecDevs[19]
pRecDevs[20]
pRecDevs[21]
pRecDevs[22]
pRecDevs[23]
pRecDevs[24]
pRecDevs[25]
pRecDevs[26]
pRecDevs[27]
pRecDevs[28]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

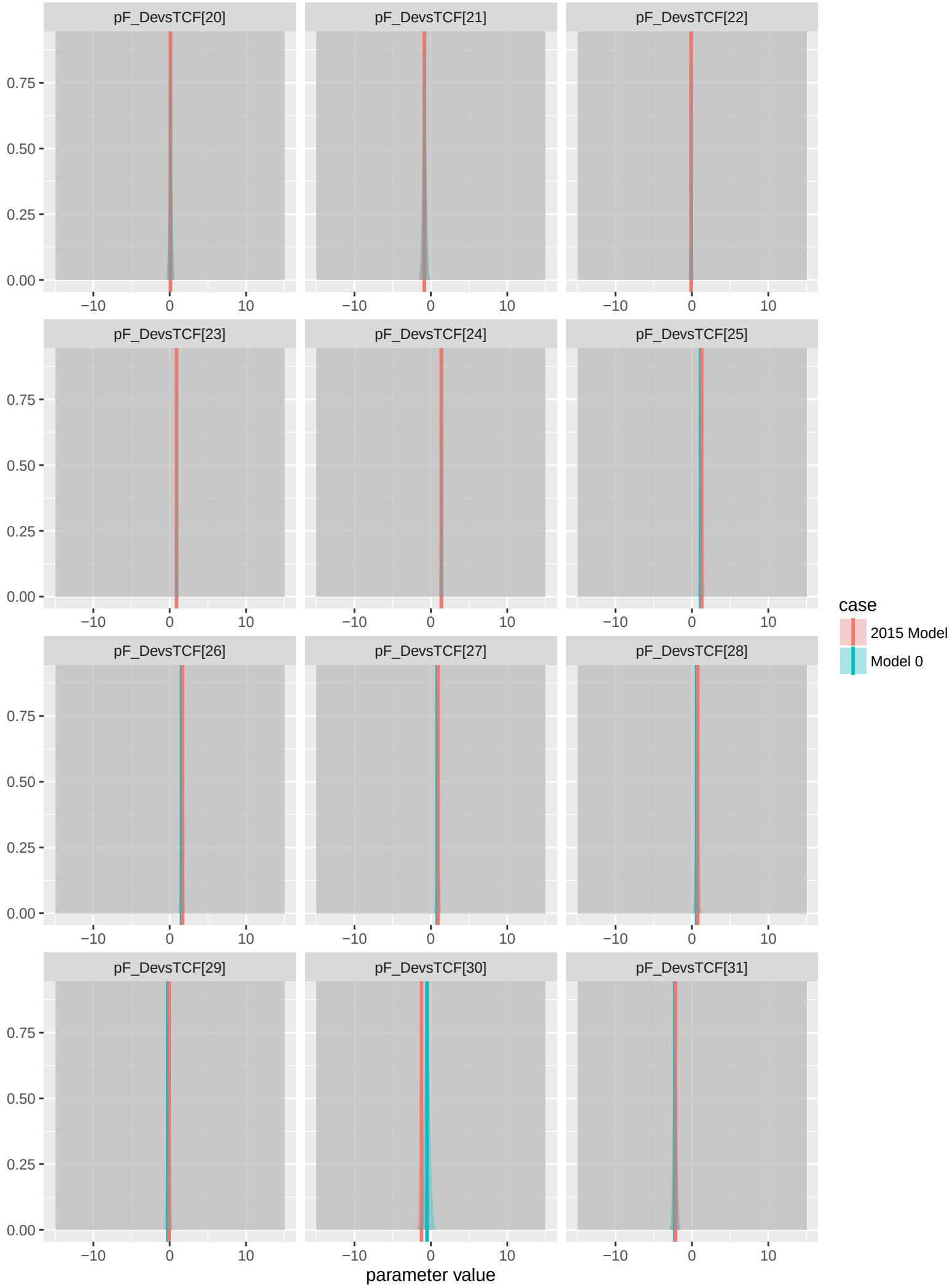

pRecDevs[29]
pRecDevs[30]
pRecDevs[31]
pRecDevs[32]
pRecDevs[33]
pRecDevs[34]
pRecDevs[35]
pRecDevs[36]
pRecDevs[37]
pRecDevs[38]
pRecDevs[39]
pRecDevs[40]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

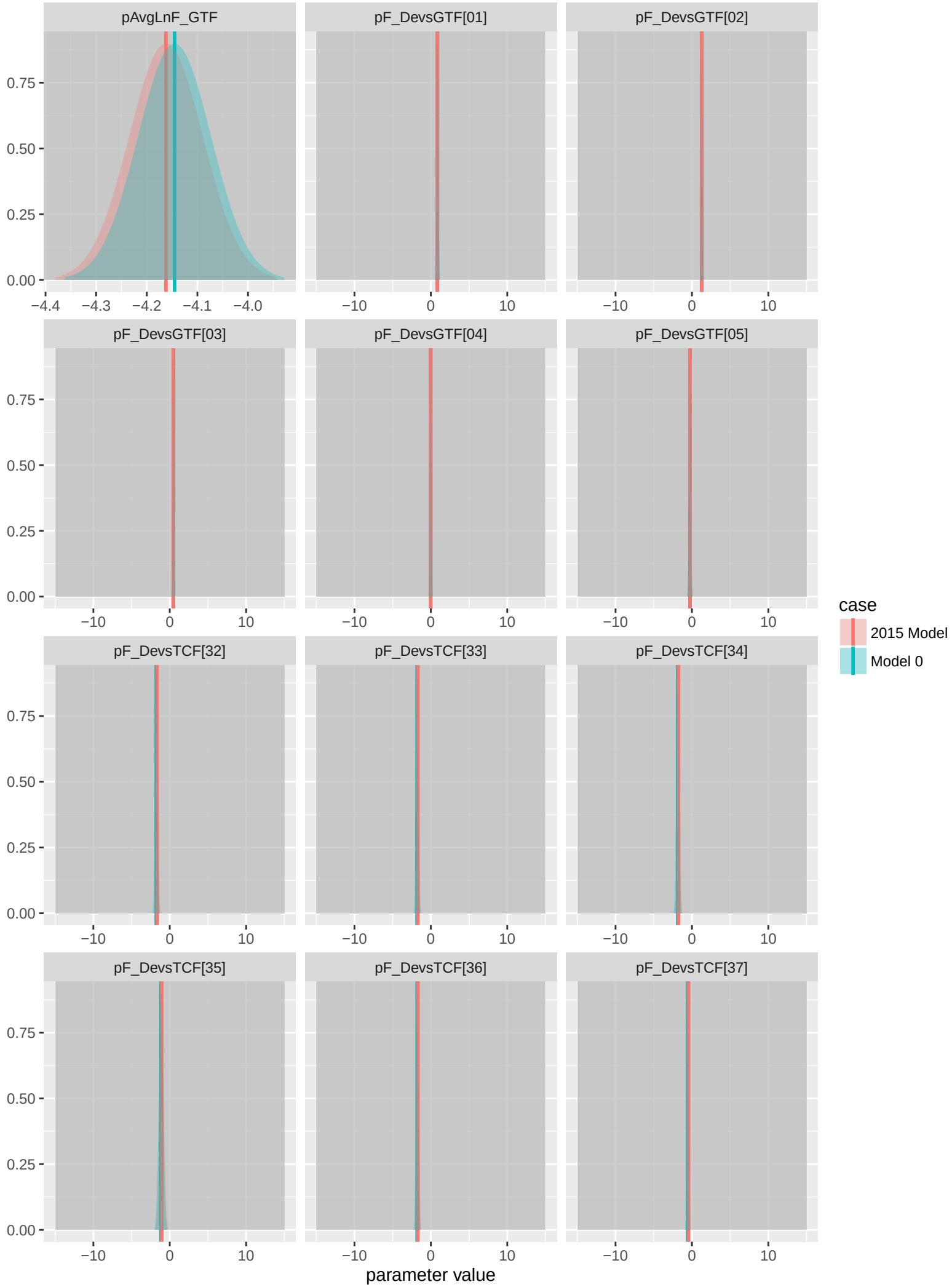

pMnLnRecHist
pRecDevs[41]
pRecDevs[42]
pRecDevsHist[01]
pRecDevsHist[02]
pRecDevsHist[03]
pRecDevsHist[04]
pRecDevsHist[05]
pRecDevsHist[06]
pRecDevsHist[07]
pRecDevsHist[08]
pRecDevsHist[09]
0.00
0.25
0.50
0.75
11
12
13
−10
0
10
case
2015 Model
Model 0
parameter value

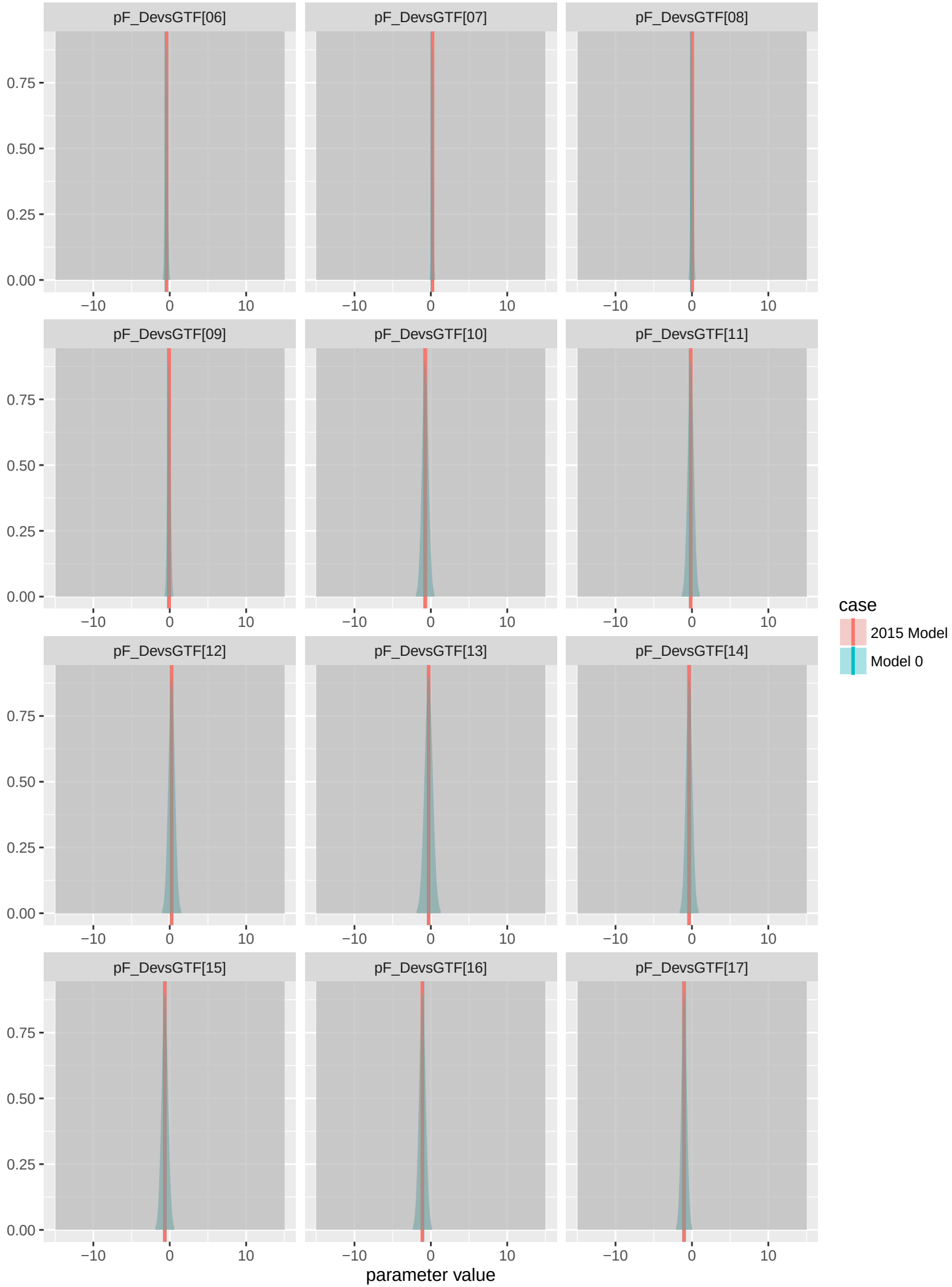

pRecDevsHist[10]
pRecDevsHist[11]
pRecDevsHist[12]
pRecDevsHist[13]
pRecDevsHist[14]
pRecDevsHist[15]
pRecDevsHist[16]
pRecDevsHist[17]
pRecDevsHist[18]
pRecDevsHist[19]
pRecDevsHist[20]
pRecDevsHist[21]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

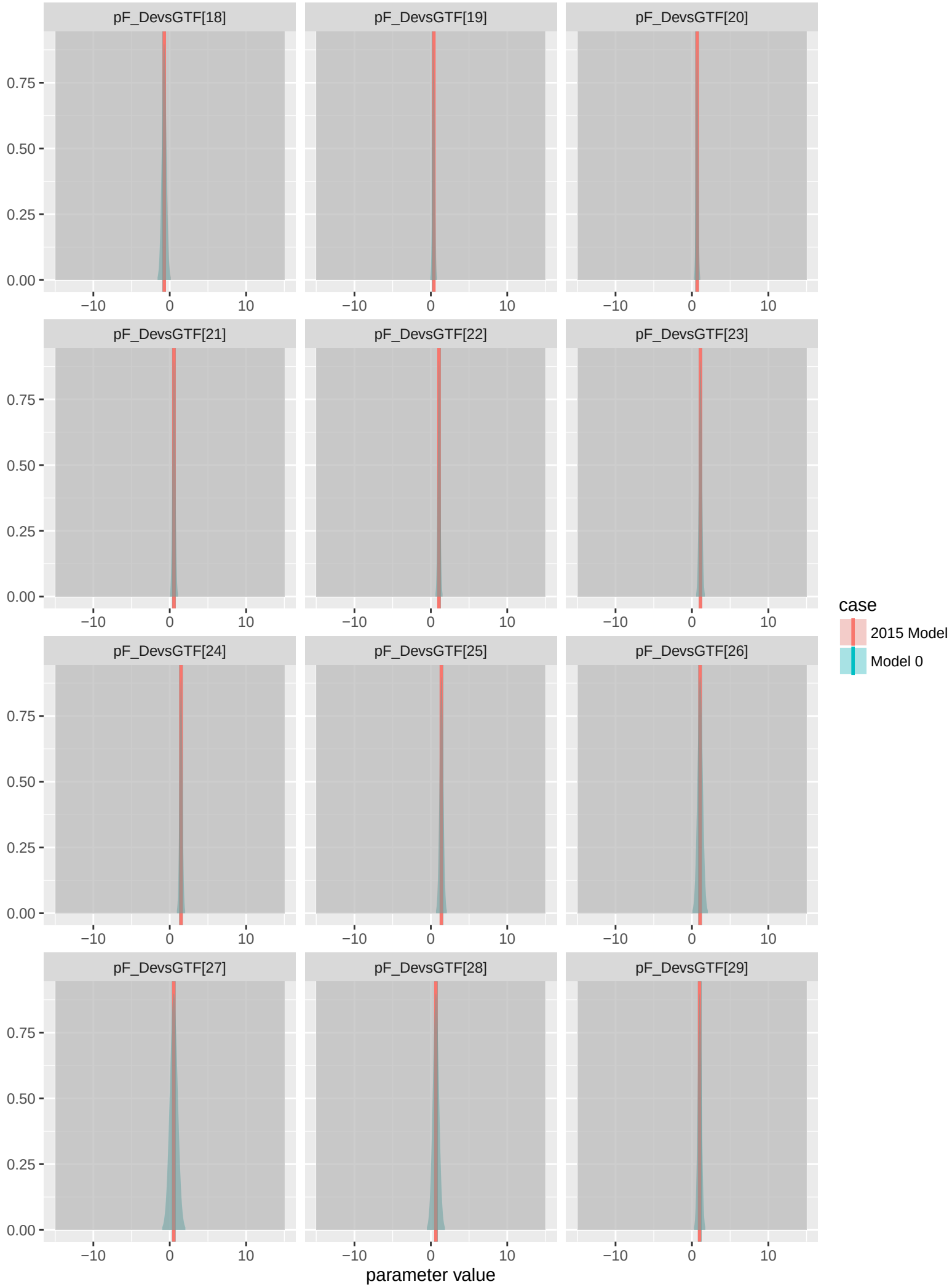

pAvgLnF_TCF
pF_DevsTCF[01]
pF_DevsTCF[02]
pF_DevsTCF[03]
pF_DevsTCF[04]
pF_DevsTCF[05]
pF_DevsTCF[06]
pF_DevsTCF[07]
pRecDevsHist[22]
pRecDevsHist[23]
pRecDevsHist[24]
pRecDevsHist[25]
0.00
0.25
0.50
0.75
−1.8
−1.6
−1.4
−1.2
−10
0
10
parameter value
case
2015 Model
Model 0

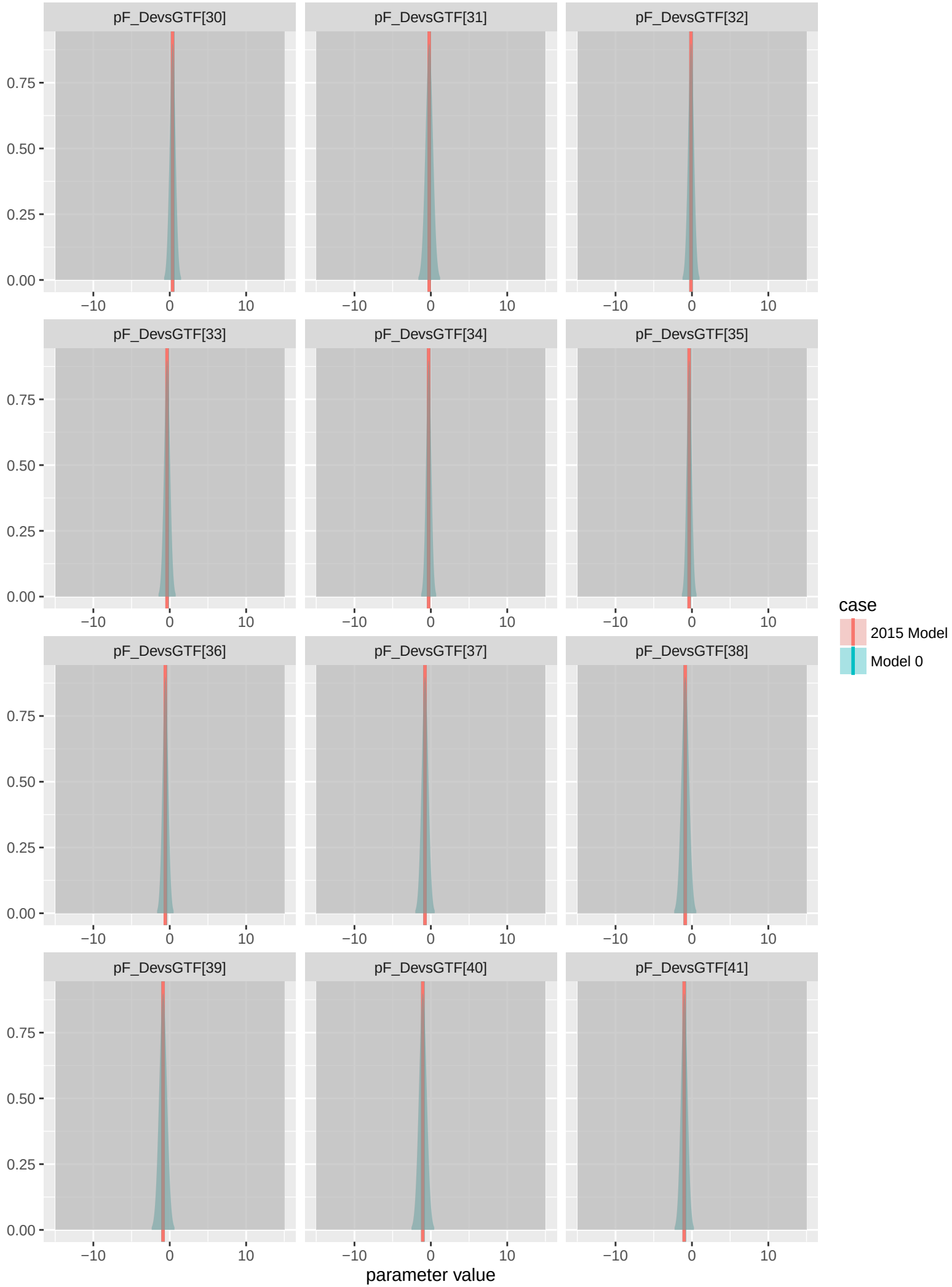

pF_DevsTCF[08]
pF_DevsTCF[09]
pF_DevsTCF[10]
pF_DevsTCF[11]
pF_DevsTCF[12]
pF_DevsTCF[13]
pF_DevsTCF[14]
pF_DevsTCF[15]
pF_DevsTCF[16]
pF_DevsTCF[17]
pF_DevsTCF[18]
pF_DevsTCF[19]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

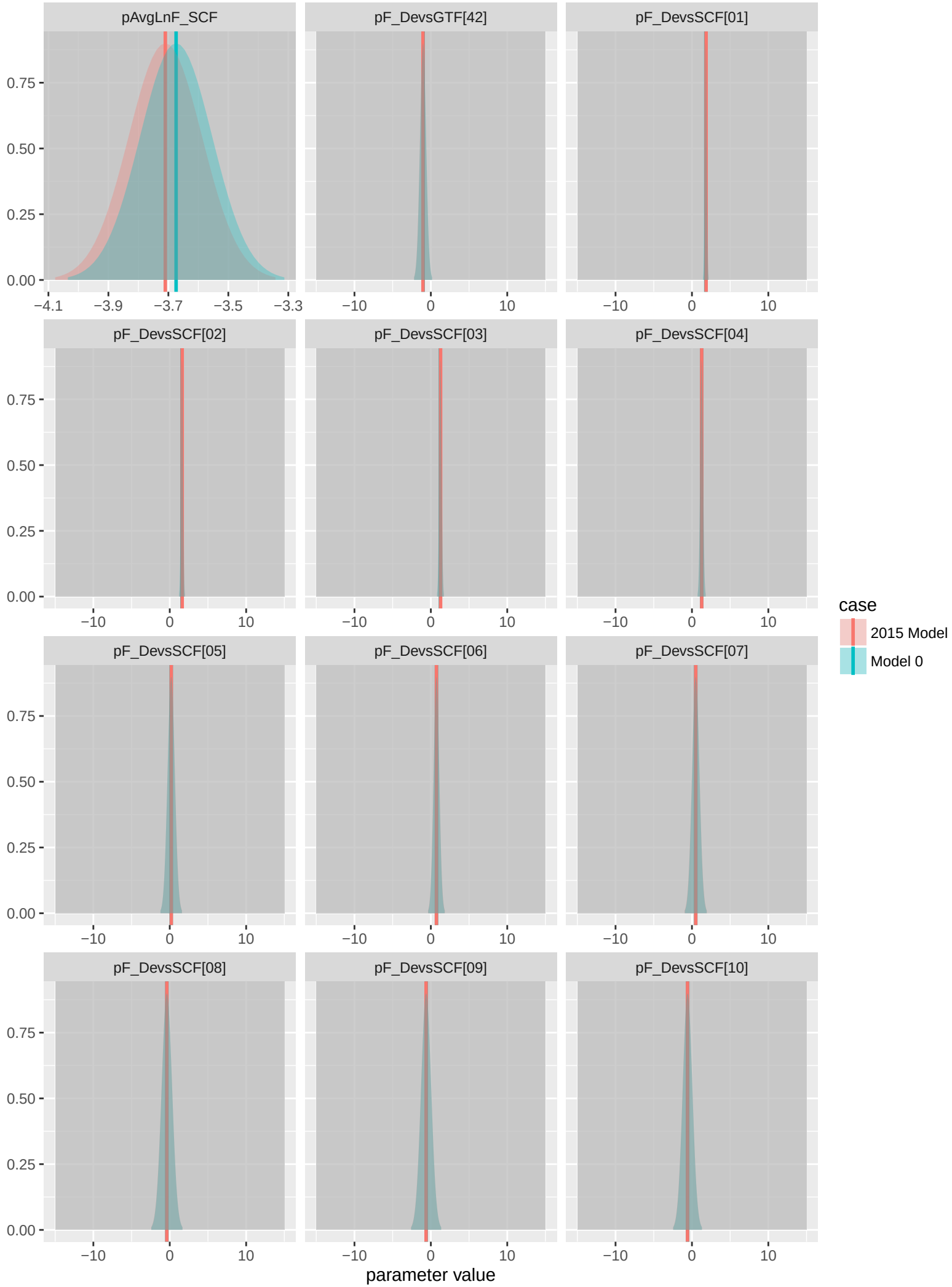

pF_DevsTCF[20]
pF_DevsTCF[21]
pF_DevsTCF[22]
pF_DevsTCF[23]
pF_DevsTCF[24]
pF_DevsTCF[25]
pF_DevsTCF[26]
pF_DevsTCF[27]
pF_DevsTCF[28]
pF_DevsTCF[29]
pF_DevsTCF[30]
pF_DevsTCF[31]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

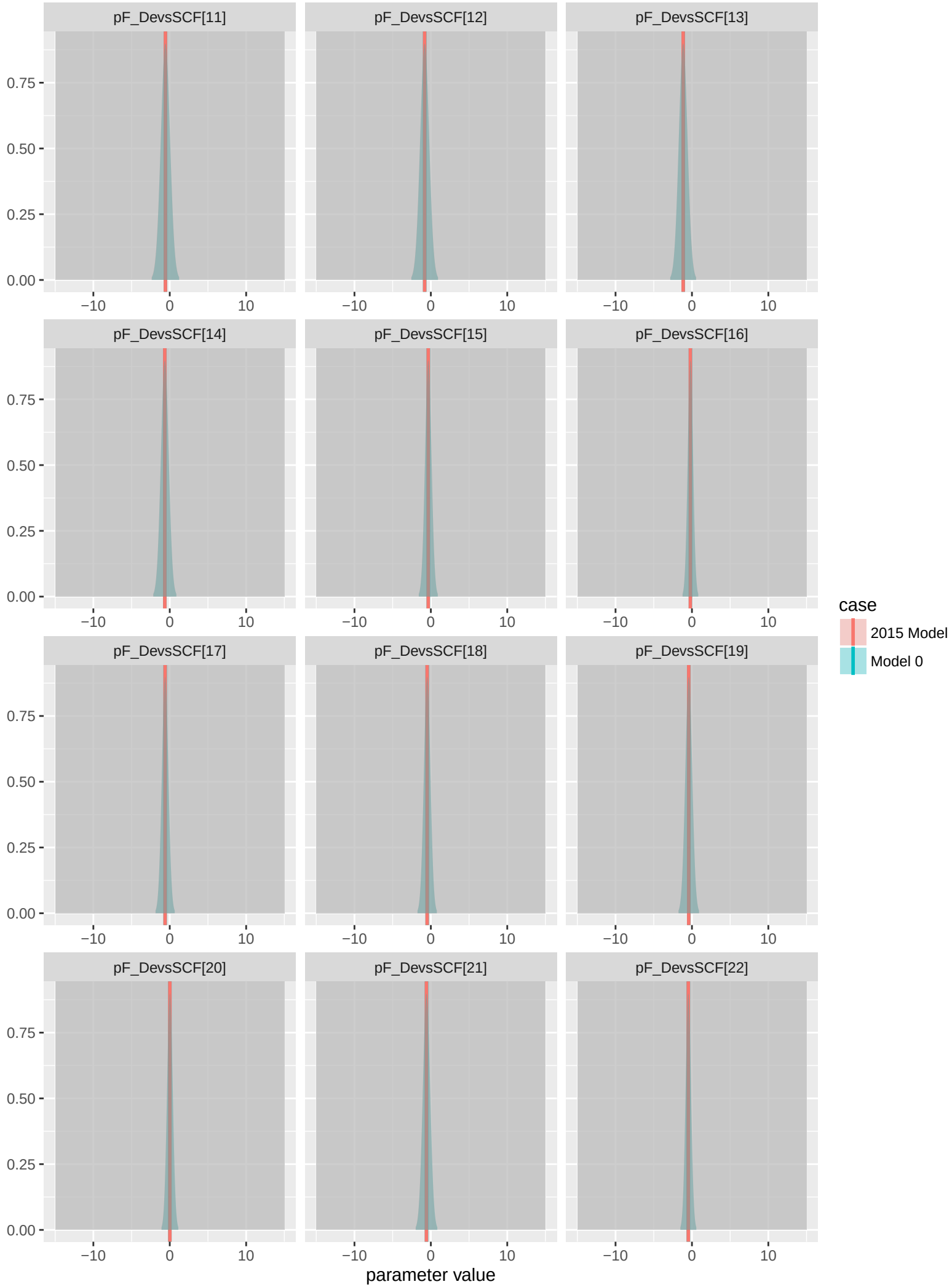

pAvgLnF_GTF
pF_DevsGTF[01]
pF_DevsGTF[02]
pF_DevsGTF[03]
pF_DevsGTF[04]
pF_DevsGTF[05]
pF_DevsTCF[32]
pF_DevsTCF[33]
pF_DevsTCF[34]
pF_DevsTCF[35]
pF_DevsTCF[36]
pF_DevsTCF[37]
0.00
0.25
0.50
0.75
−4.4
−4.3
−4.2
−4.1
−4.0
−10
0
10
case
2015 Model
Model 0
parameter value

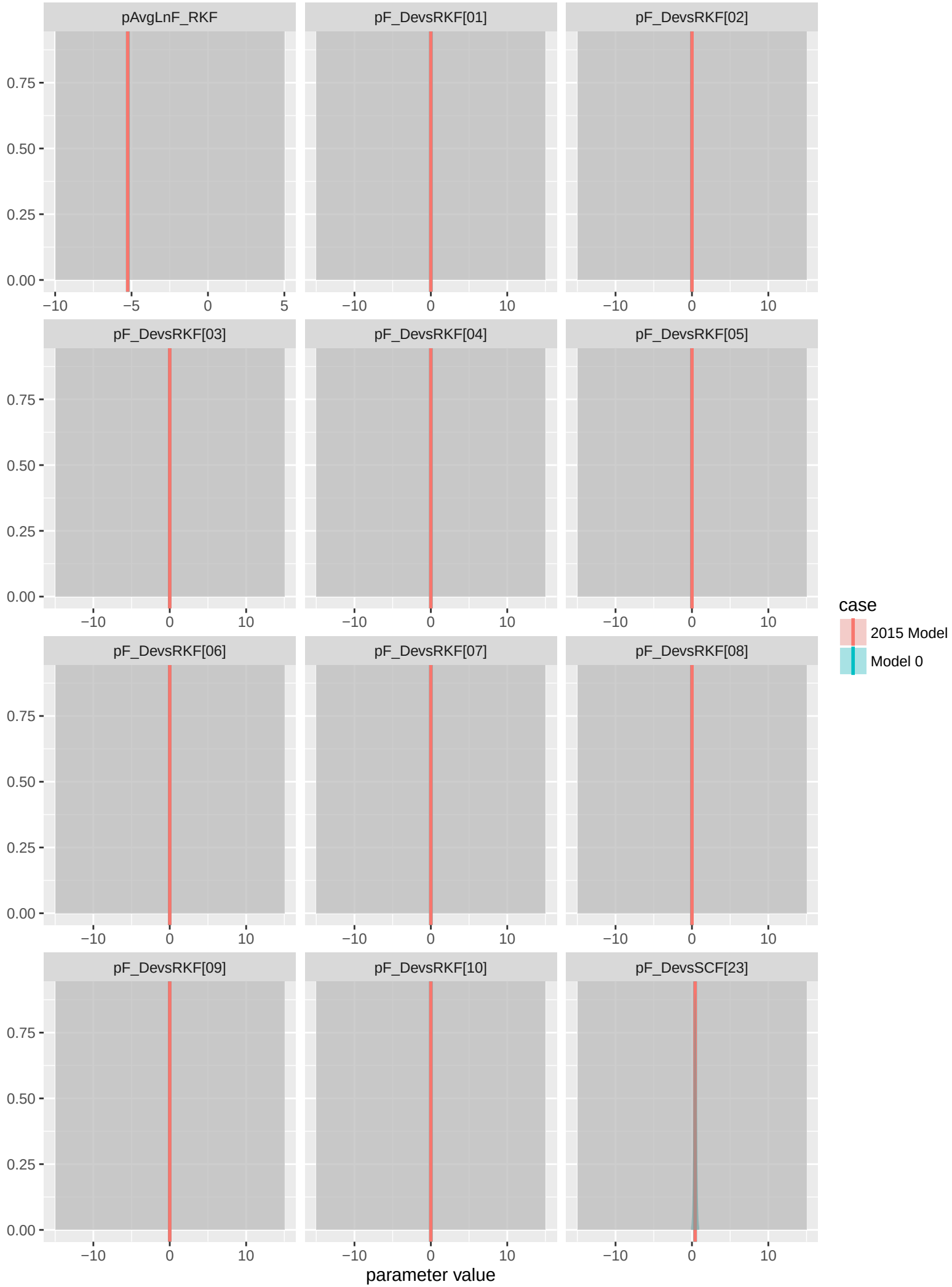

pF_DevsGTF[06]
pF_DevsGTF[07]
pF_DevsGTF[08]
pF_DevsGTF[09]
pF_DevsGTF[10]
pF_DevsGTF[11]
pF_DevsGTF[12]
pF_DevsGTF[13]
pF_DevsGTF[14]
pF_DevsGTF[15]
pF_DevsGTF[16]
pF_DevsGTF[17]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

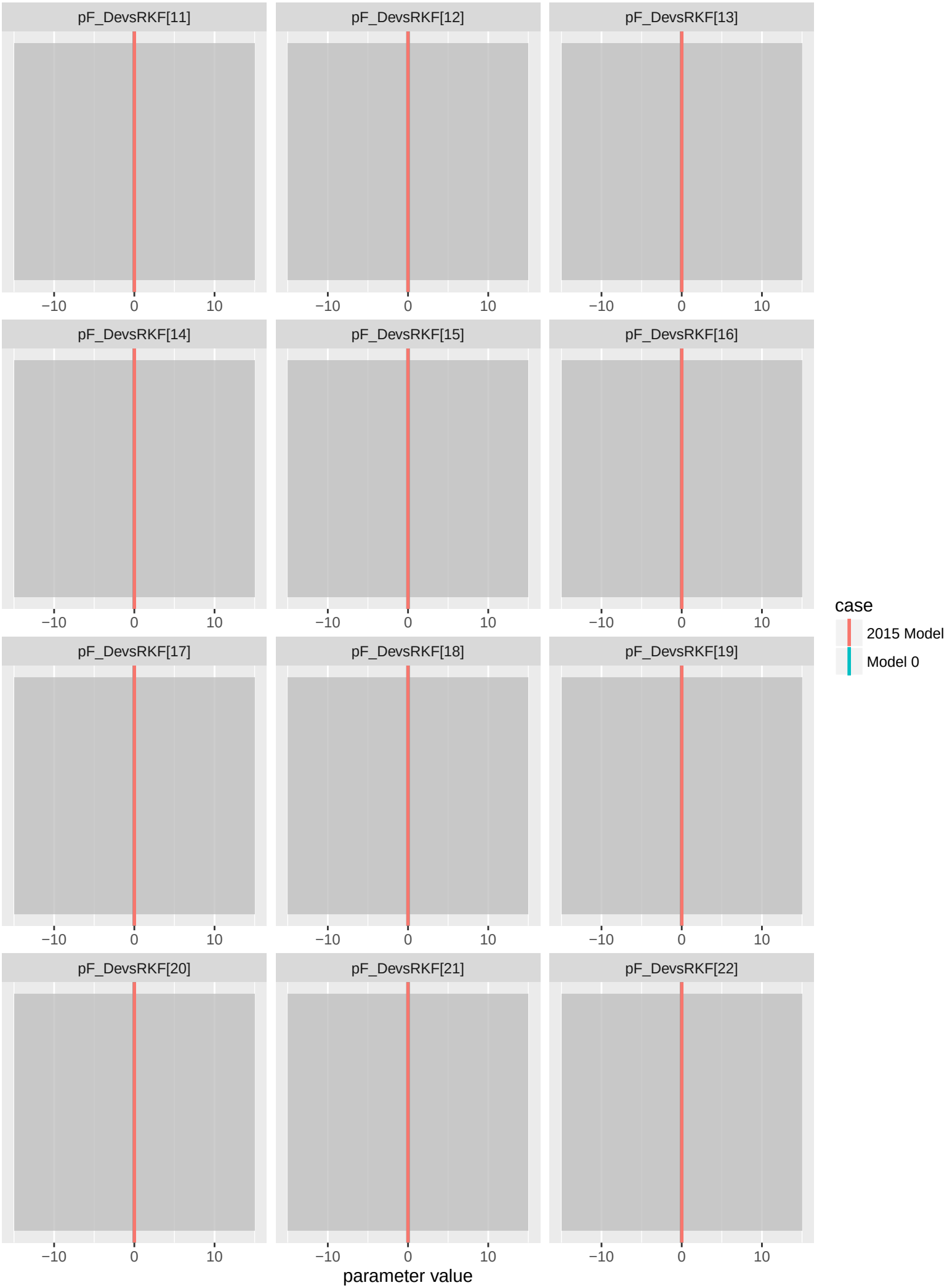

pF_DevsGTF[18]
pF_DevsGTF[19]
pF_DevsGTF[20]
pF_DevsGTF[21]
pF_DevsGTF[22]
pF_DevsGTF[23]
pF_DevsGTF[24]
pF_DevsGTF[25]
pF_DevsGTF[26]
pF_DevsGTF[27]
pF_DevsGTF[28]
pF_DevsGTF[29]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

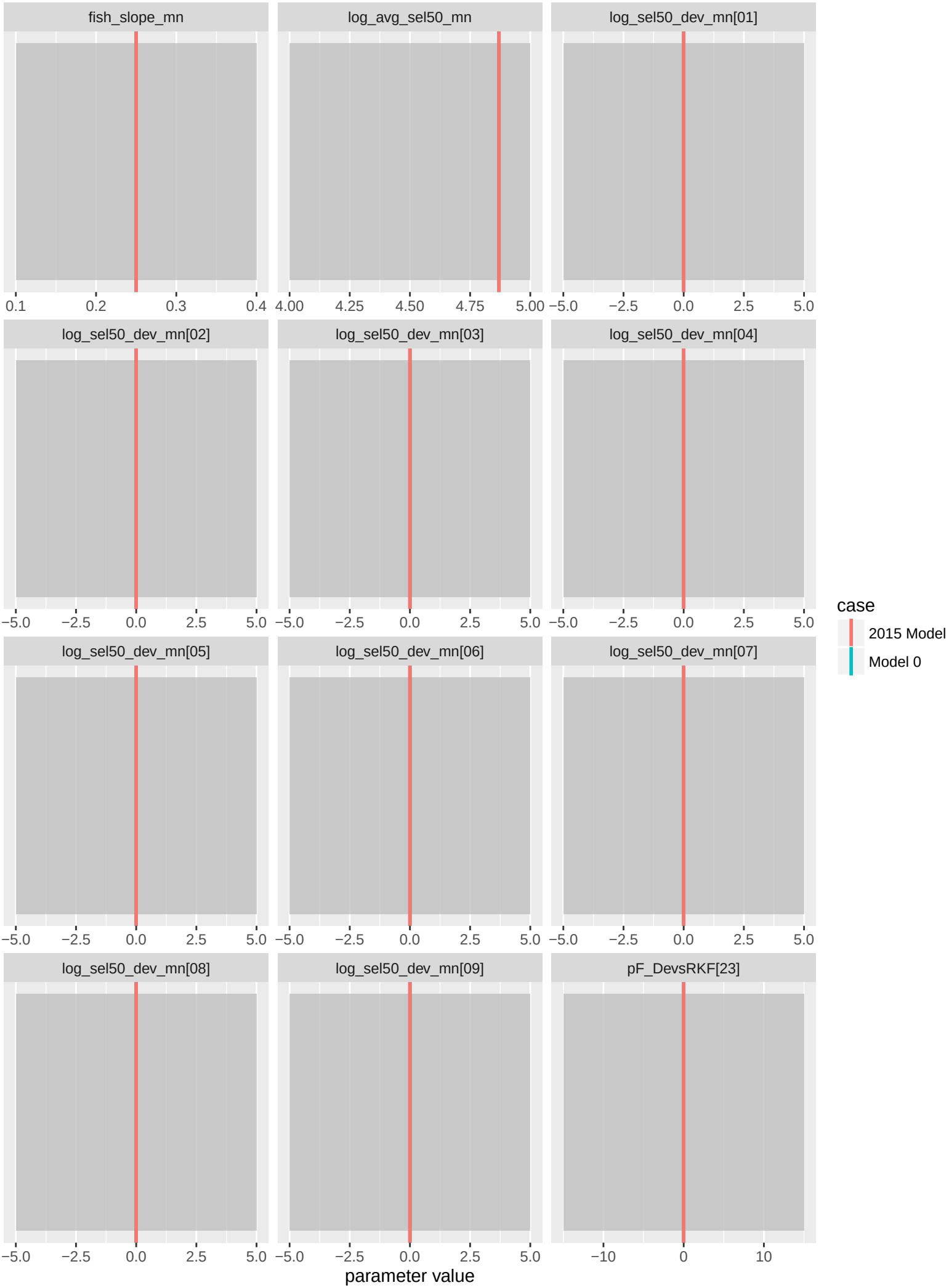

pF_DevsGTF[30]
pF_DevsGTF[31]
pF_DevsGTF[32]
pF_DevsGTF[33]
pF_DevsGTF[34]
pF_DevsGTF[35]
pF_DevsGTF[36]
pF_DevsGTF[37]
pF_DevsGTF[38]
pF_DevsGTF[39]
pF_DevsGTF[40]
pF_DevsGTF[41]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0


pAvgLnF_SCF
pF_DevsGTF[42]
pF_DevsSCF[01]
pF_DevsSCF[02]
pF_DevsSCF[03]
pF_DevsSCF[04]
pF_DevsSCF[05]
pF_DevsSCF[06]
pF_DevsSCF[07]
pF_DevsSCF[08]
pF_DevsSCF[09]
pF_DevsSCF[10]
0.00
0.25
0.50
0.75
−4.1
−3.9
−3.7
−3.5
−3.3
−10
0
10
case
2015 Model
Model 0
parameter value

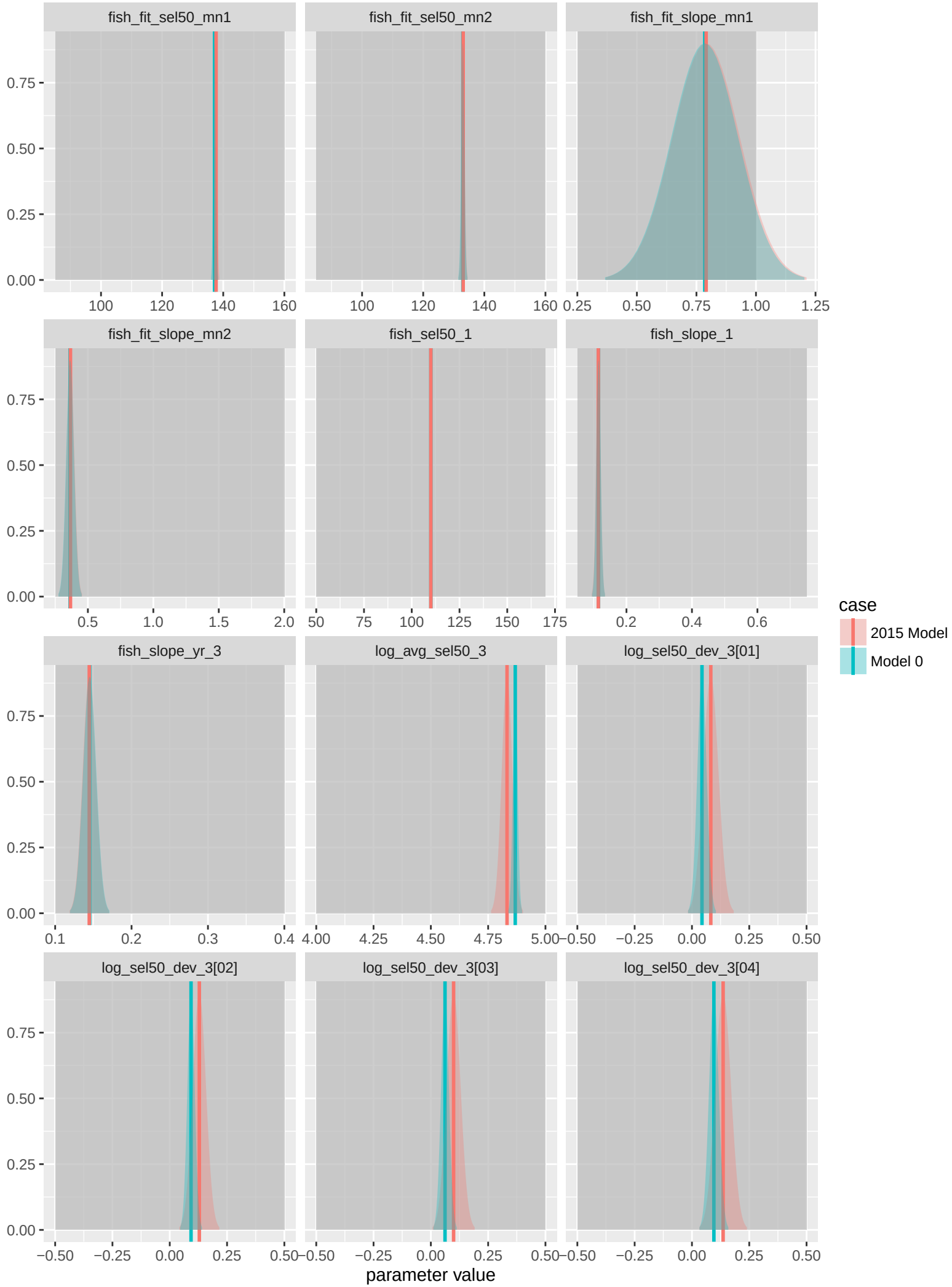

pF_DevsSCF[11]
pF_DevsSCF[12]
pF_DevsSCF[13]
pF_DevsSCF[14]
pF_DevsSCF[15]
pF_DevsSCF[16]
pF_DevsSCF[17]
pF_DevsSCF[18]
pF_DevsSCF[19]
pF_DevsSCF[20]
pF_DevsSCF[21]
pF_DevsSCF[22]
0.00
0.25
0.50
0.75
−10
0
10
parameter value
case
2015 Model
Model 0

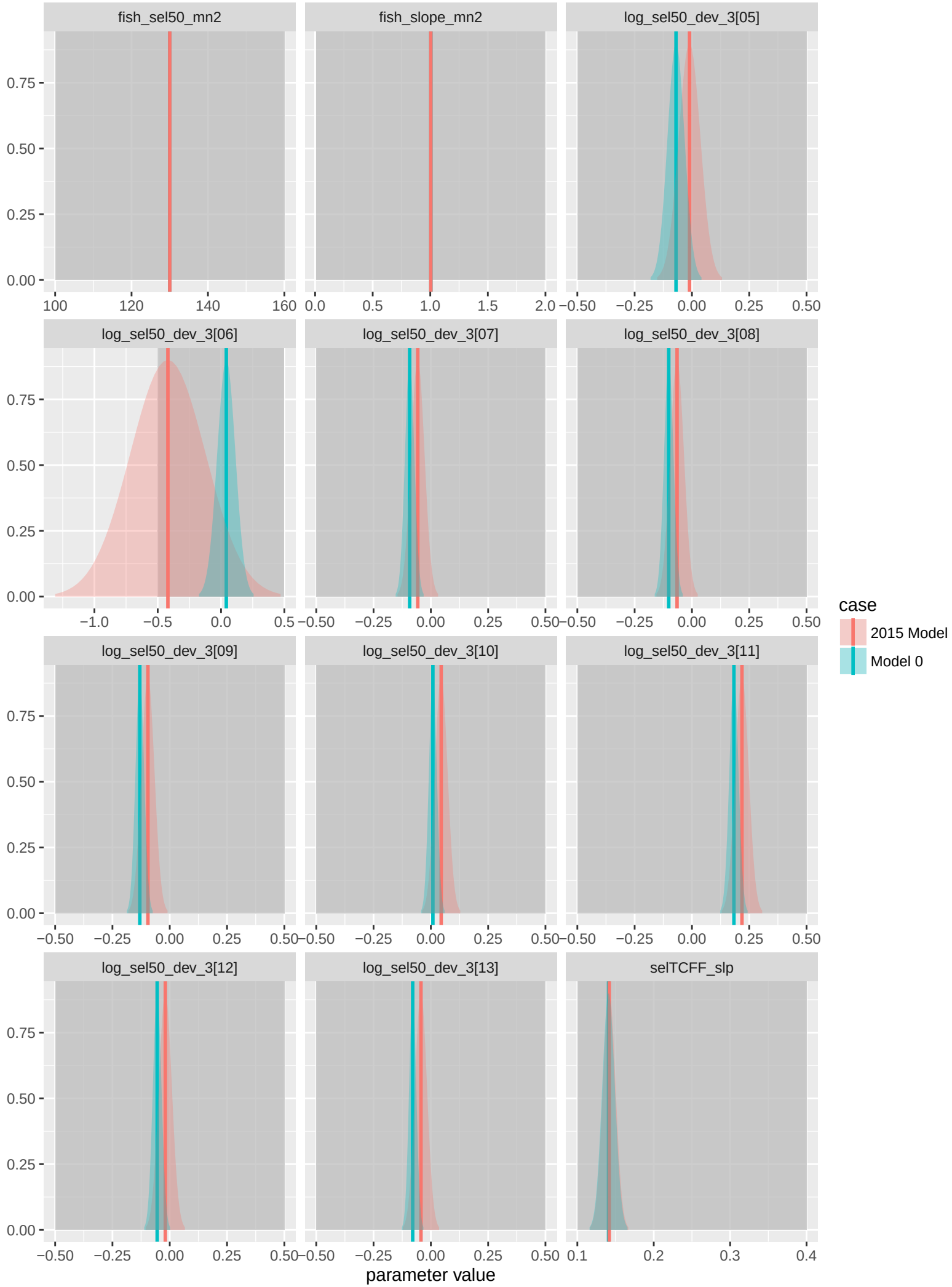

pAvgLnF_RKF
pF_DevsRKF[01]
pF_DevsRKF[02]
pF_DevsRKF[03]
pF_DevsRKF[04]
pF_DevsRKF[05]
pF_DevsRKF[06]
pF_DevsRKF[07]
pF_DevsRKF[08]
pF_DevsRKF[09]
pF_DevsRKF[10]
pF_DevsSCF[23]
0.00
0.25
0.50
0.75
−10
−5
0
5
10
parameter value
case
2015 Model
Model 0

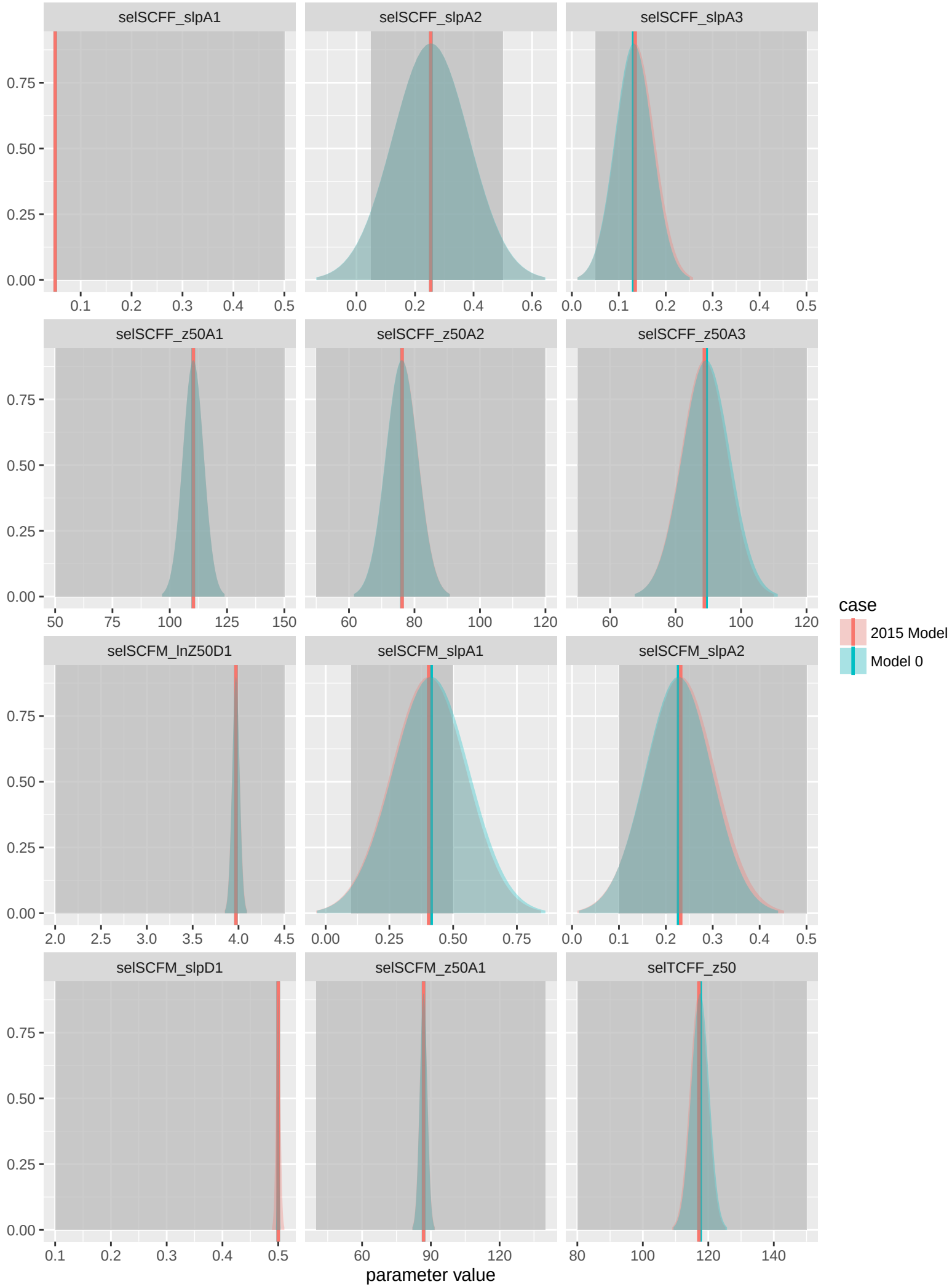

pF_DevsRKF[11]
pF_DevsRKF[12]
pF_DevsRKF[13]
pF_DevsRKF[14]
pF_DevsRKF[15]
pF_DevsRKF[16]
pF_DevsRKF[17]
pF_DevsRKF[18]
pF_DevsRKF[19]
pF_DevsRKF[20]
pF_DevsRKF[21]
pF_DevsRKF[22]
−10
0
10
parameter value
case
2015 Model
Model 0

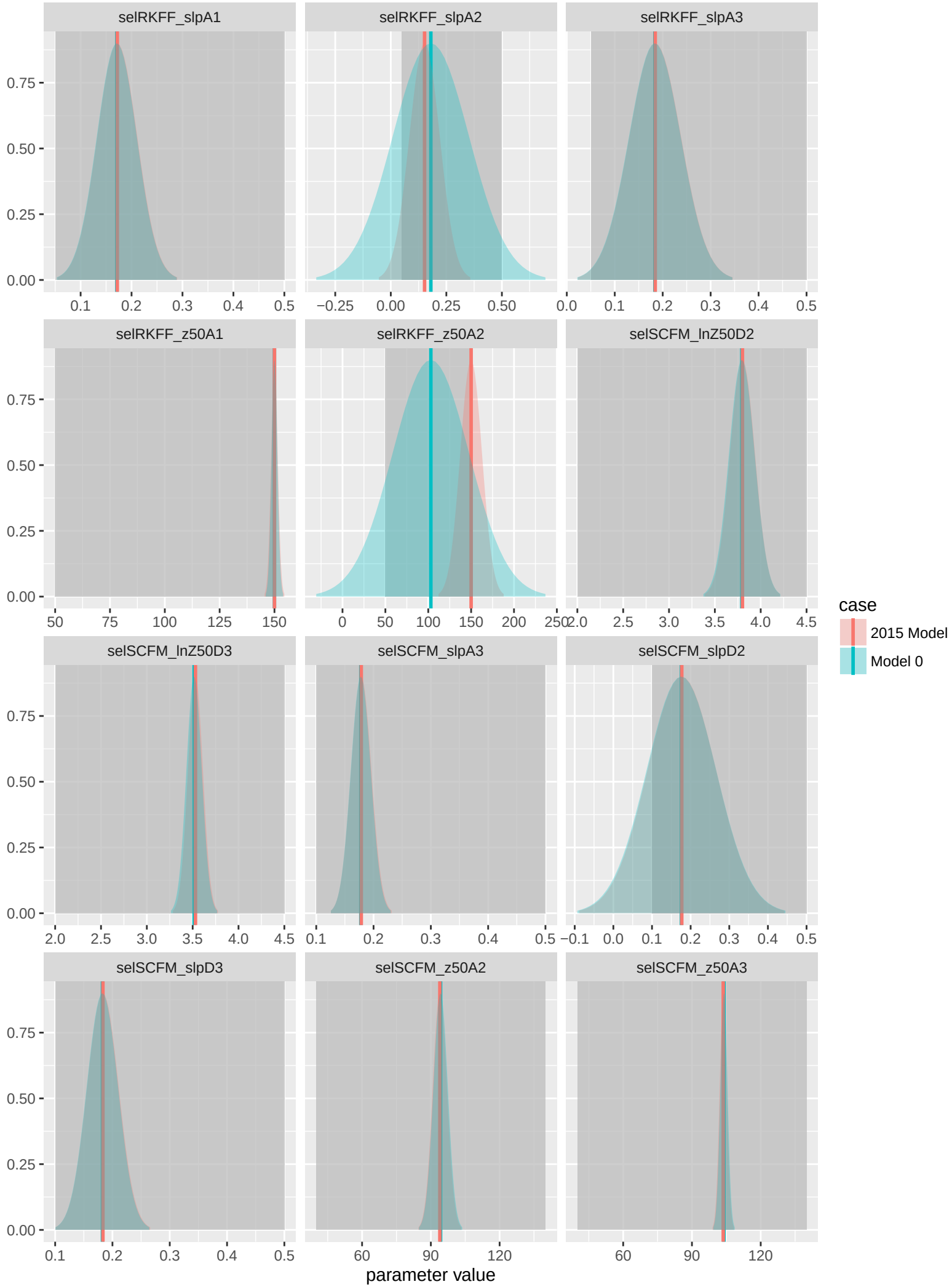

fish_slope_mn
log_avg_sel50_mn
log_sel50_dev_mn[01]
log_sel50_dev_mn[02]
log_sel50_dev_mn[03]
log_sel50_dev_mn[04]
log_sel50_dev_mn[05]
log_sel50_dev_mn[06]
log_sel50_dev_mn[07]
log_sel50_dev_mn[08]
log_sel50_dev_mn[09]
pF_DevsRKF[23]
0.1
0.2
0.3
0.4
4.00
4.25
4.50
4.75
5.00
−5.0
−2.5
0.0
2.5
5.0
−10
0
10
parameter value
case
2015 Model
Model 0

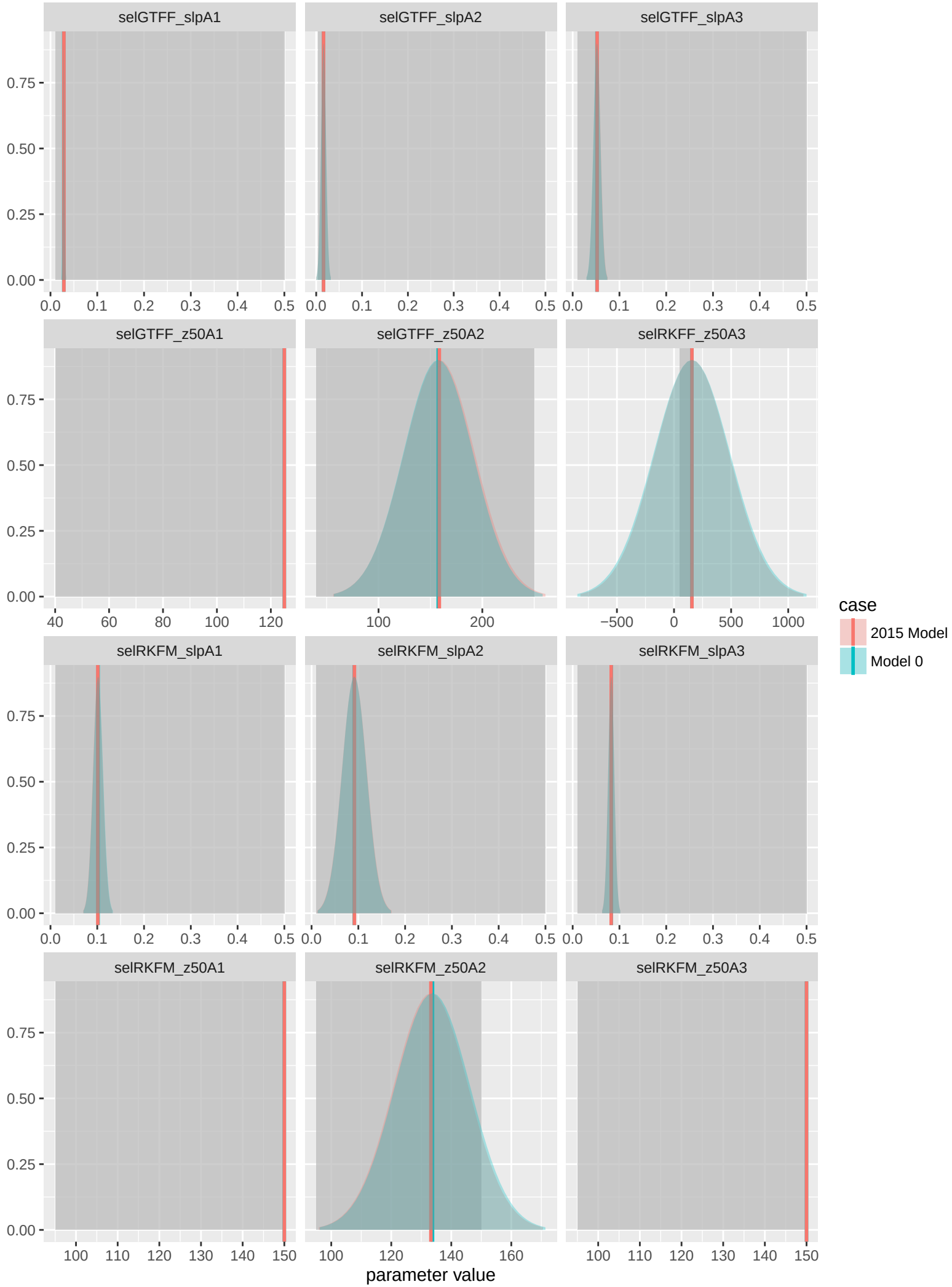
log_sel50_dev_mn[10]
log_sel50_dev_mn[11]
log_sel50_dev_mn[12]
log_sel50_dev_mn[13]
log_sel50_dev_mn[14]
log_sel50_dev_mn[15]
log_sel50_dev_mn[16]
log_sel50_dev_mn[17]
log_sel50_dev_mn[18]
log_sel50_dev_mn[19]
log_sel50_dev_mn[20]
log_sel50_dev_mn[21]
−5.0
−2.5
0.0
2.5
5.0
parameter value
case
2015 Model
Model 0

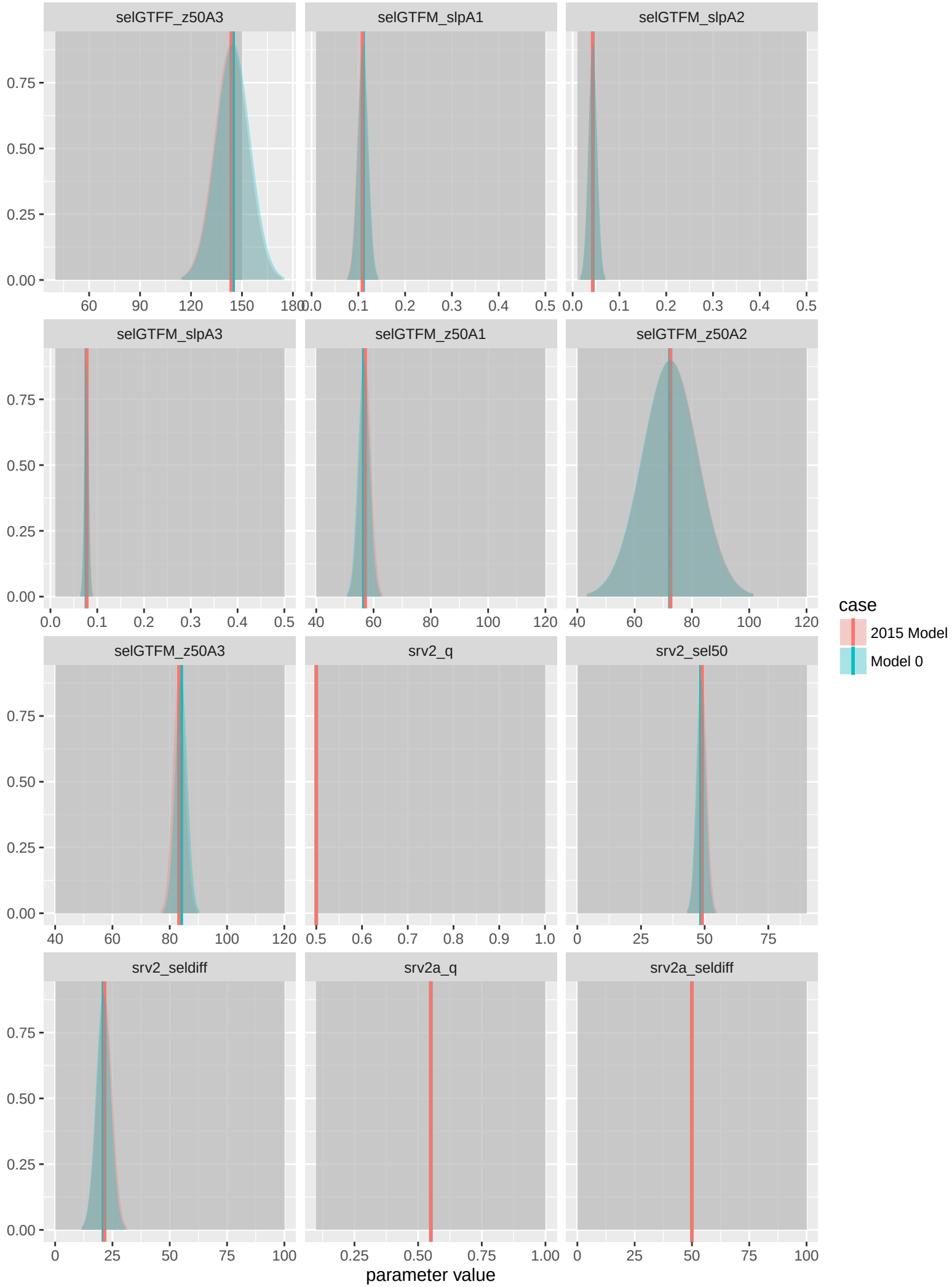

fish_fit_sel50_mn1
fish_fit_sel50_mn2
fish_fit_slope_mn1
fish_fit_slope_mn2
fish_sel50_1
fish_slope_1
fish_slope_yr_3
log_avg_sel50_3
log_sel50_dev_3[01]
log_sel50_dev_3[02]
log_sel50_dev_3[03]
log_sel50_dev_3[04]
0.00
0.25
0.50
0.75
parameter value
case
2015 Model
Model 0

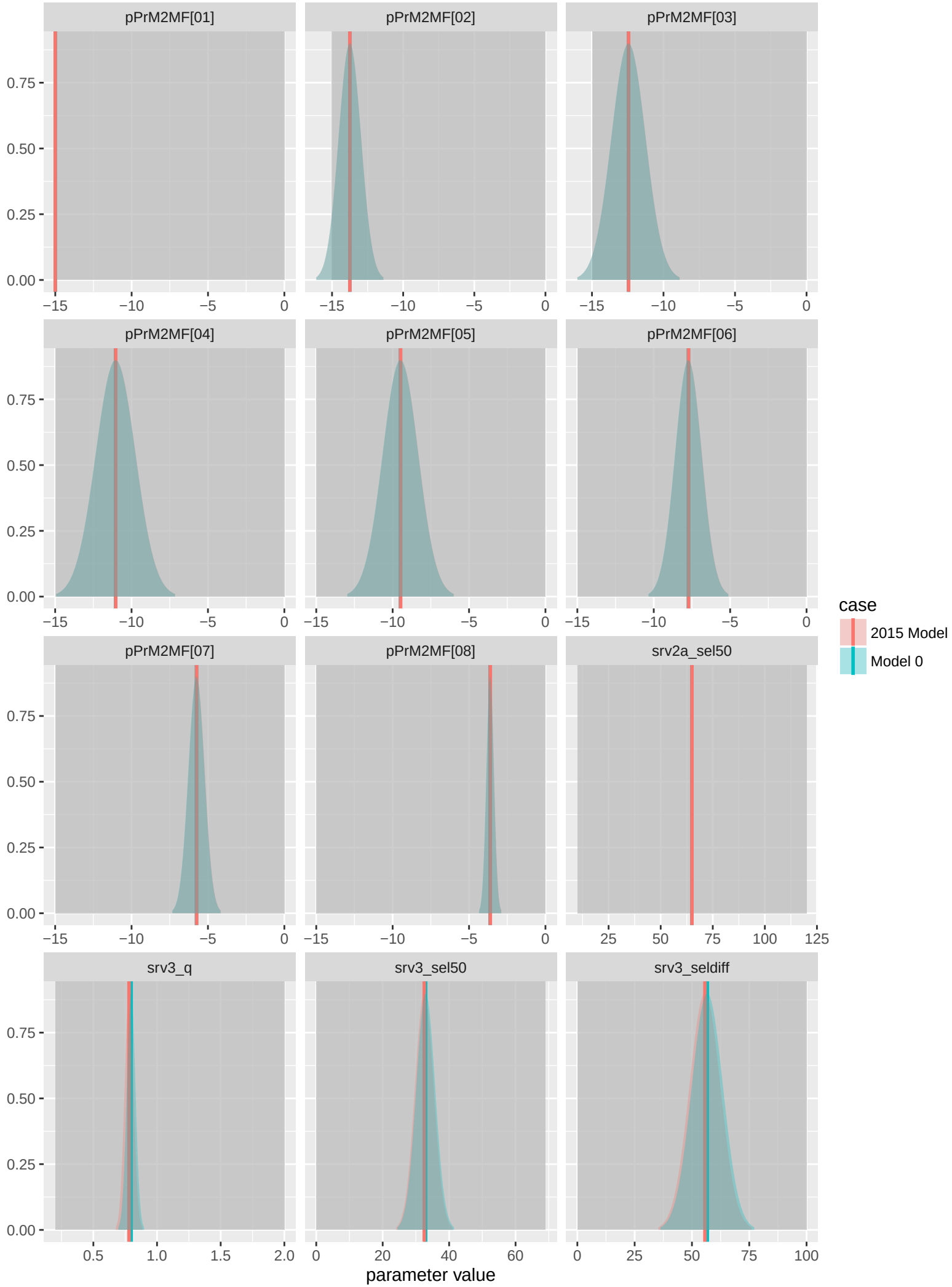

fish_sel50_mn2
fish_slope_mn2
log_sel50_dev_3[05]
log_sel50_dev_3[06]
log_sel50_dev_3[07]
log_sel50_dev_3[08]
log_sel50_dev_3[09]
log_sel50_dev_3[10]
log_sel50_dev_3[11]
log_sel50_dev_3[12]
log_sel50_dev_3[13]
selTCFF_slp
0.00
0.25
0.50
0.75
100
120
140
160
0.0
0.5
1.0
1.5
2.0
−0.50
−0.25
0.00
0.25
0.50
−1.0
−0.5
0.0
0.5
case
2015 Model
Model 0
parameter value

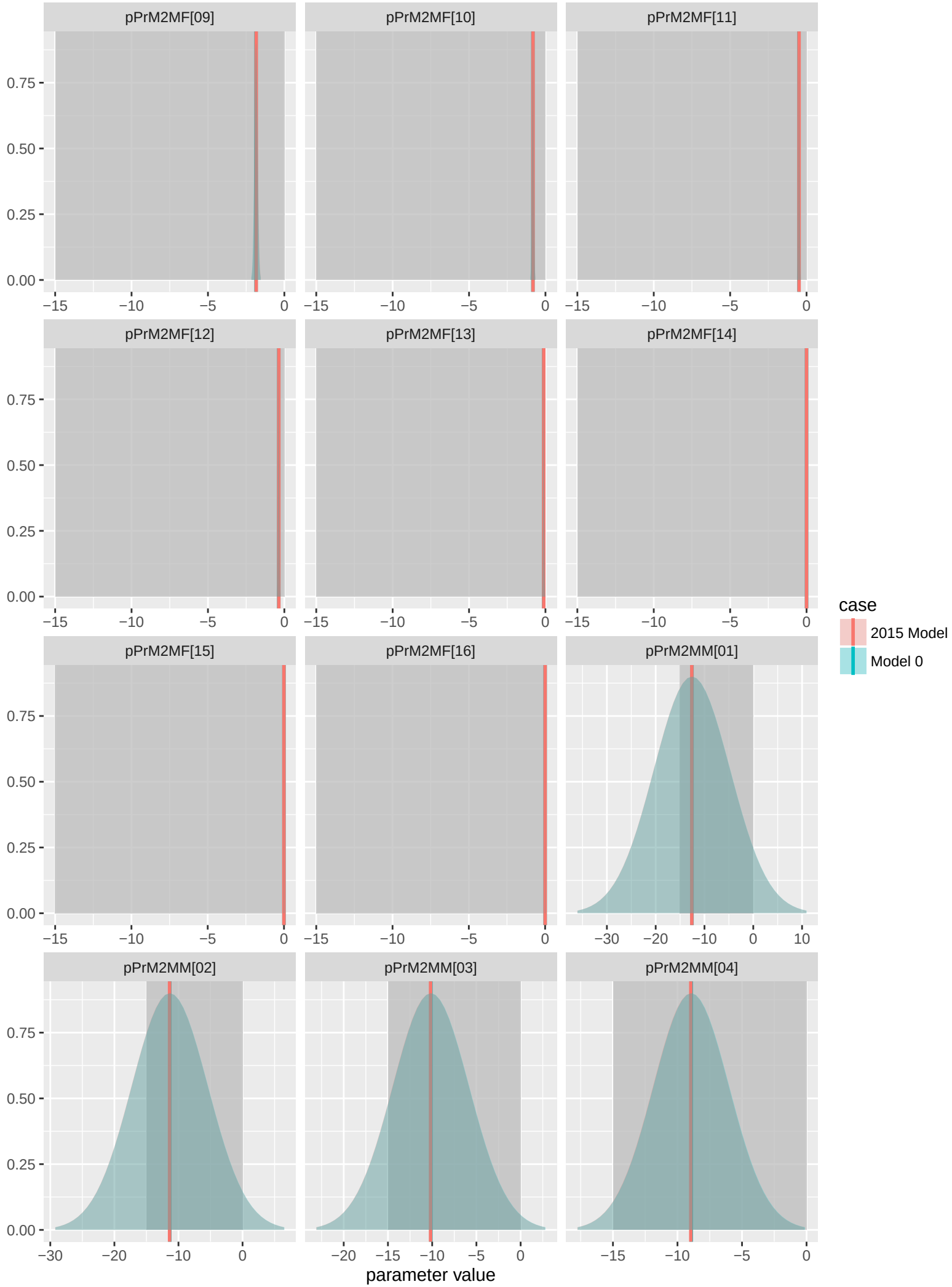

selSCFF_slpA1
selSCFF_slpA2
selSCFF_slpA3
selSCFF_z50A1
selSCFF_z50A2
selSCFF_z50A3
selSCFM_lnZ50D1
selSCFM_slpA1
selSCFM_slpA2
selSCFM_slpD1
selSCFM_z50A1
selTCFF_z50
0.00
0.25
0.50
0.75
parameter value
case
2015 Model
Model 0

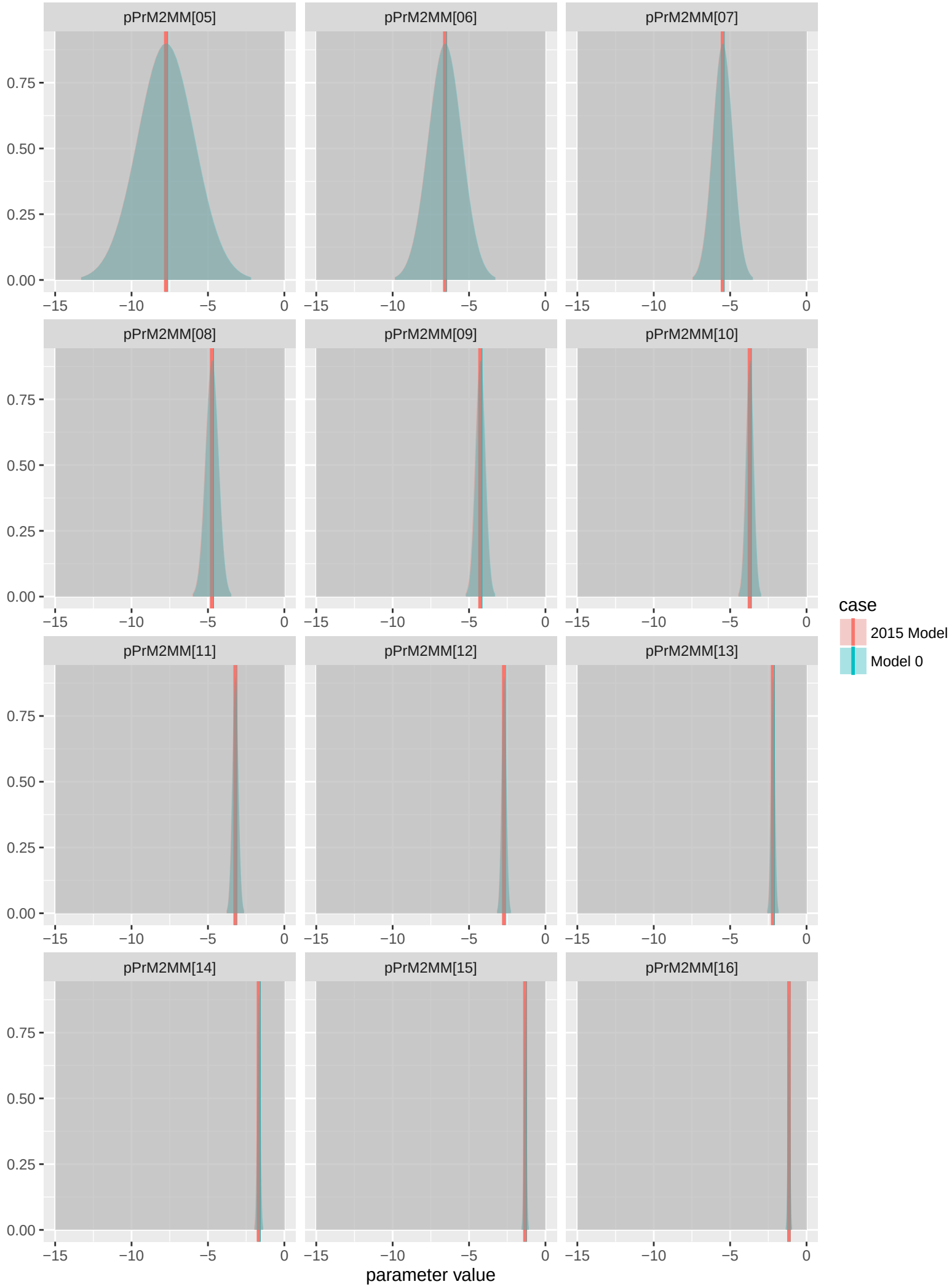

selRKFF_slpA1
selRKFF_slpA2
selRKFF_slpA3
selRKFF_z50A1
selRKFF_z50A2
selSCFM_lnZ50D2
selSCFM_lnZ50D3
selSCFM_slpA3
selSCFM_slpD2
selSCFM_slpD3
selSCFM_z50A2
selSCFM_z50A3
0.00
0.25
0.50
0.75
parameter value
case
2015 Model
Model 0

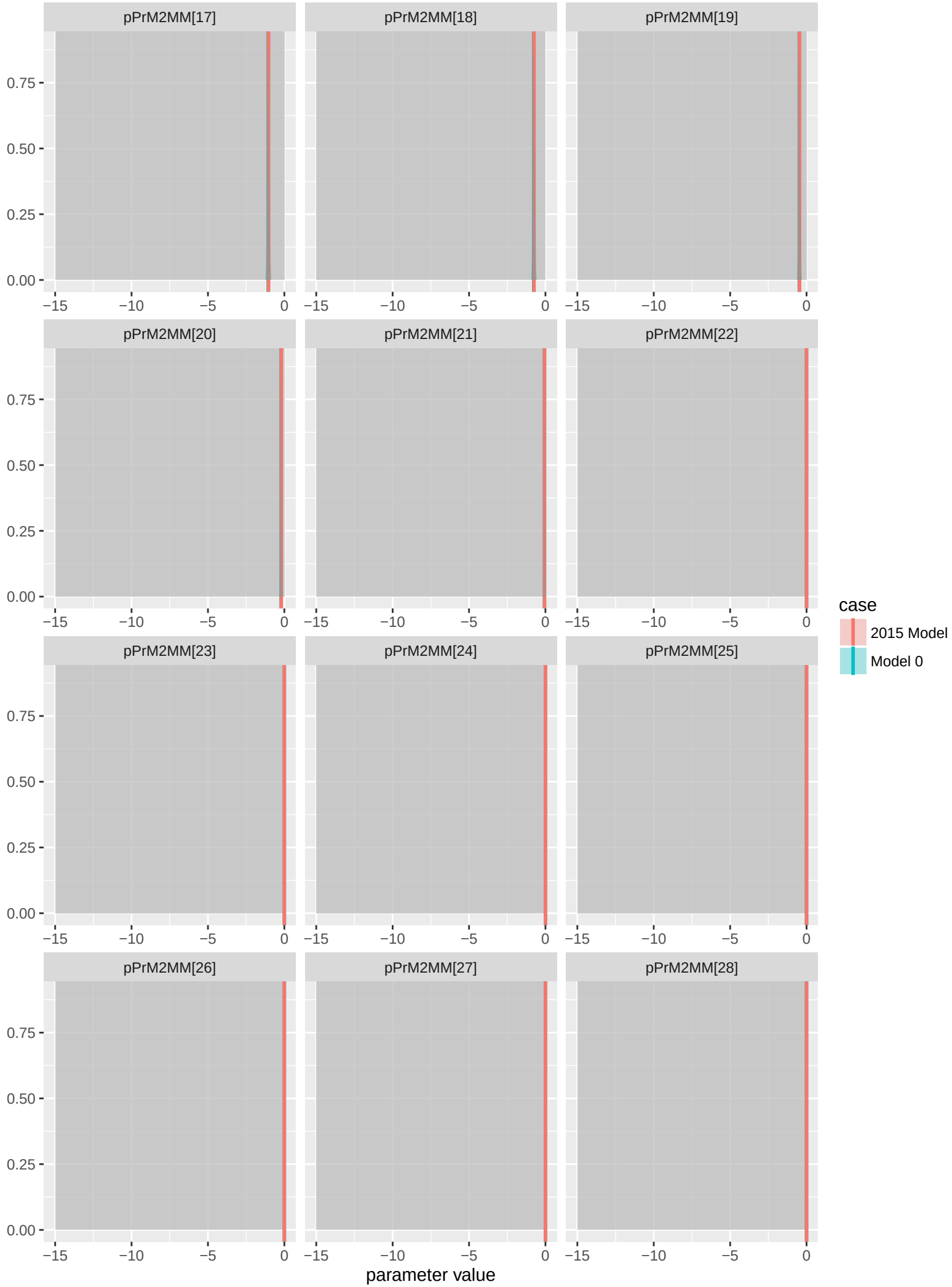

selGTFF_slpA1
selGTFF_slpA2
selGTFF_slpA3
selGTFF_z50A1
selGTFF_z50A2
selRKFF_z50A3
selRKFM_slpA1
selRKFM_slpA2
selRKFM_slpA3
selRKFM_z50A1
selRKFM_z50A2
selRKFM_z50A3
0.00
0.25
0.50
0.75
parameter value
case
2015 Model
Model 0

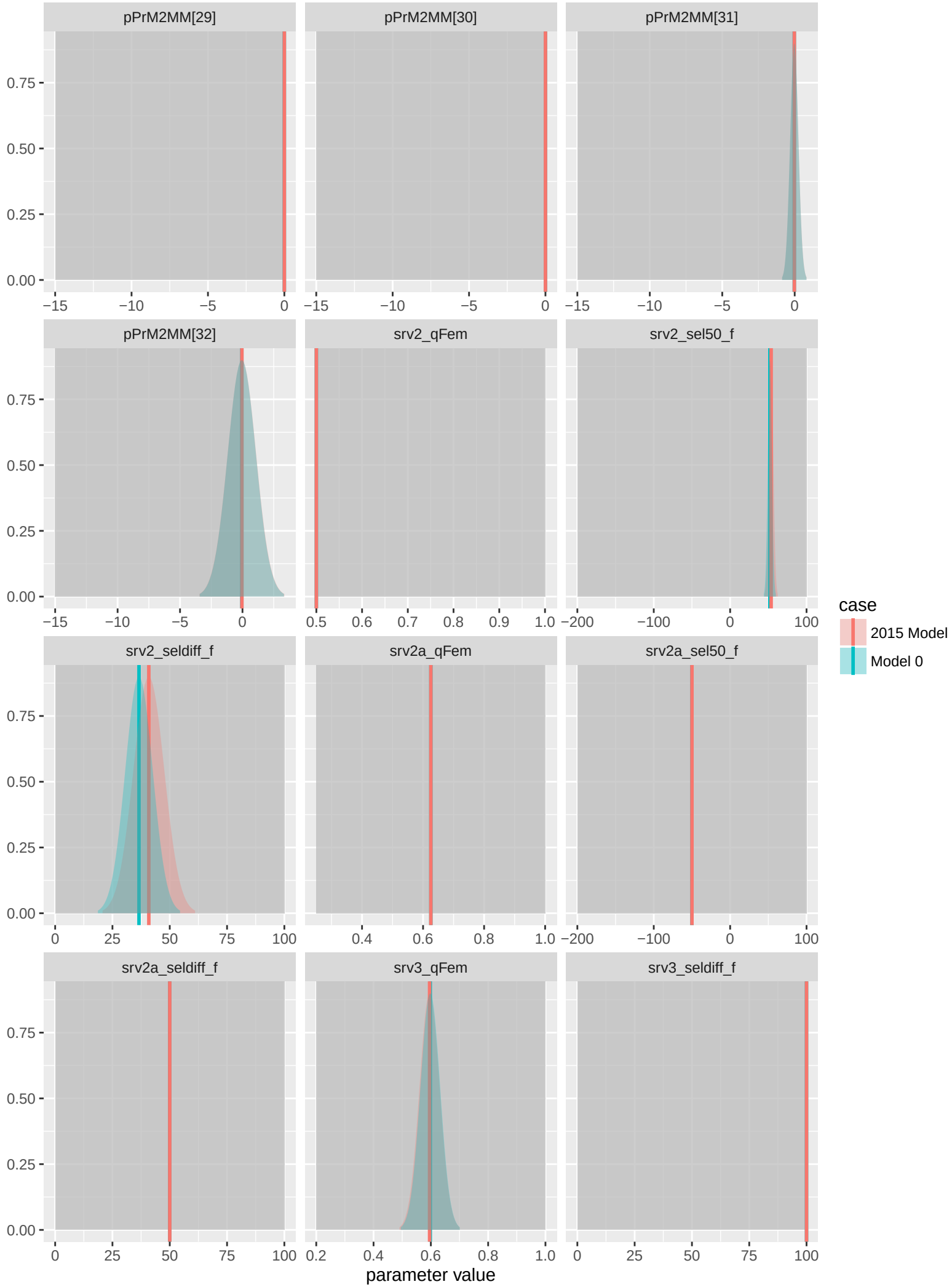

selGTFF_z50A3
selGTFM_slpA1
selGTFM_slpA2
selGTFM_slpA3
selGTFM_z50A1
selGTFM_z50A2
selGTFM_z50A3
srv2_q
srv2_sel50
srv2_seldiff
srv2a_q
srv2a_seldiff
0.00
0.25
0.50
0.75
parameter value
case
2015 Model
Model 0

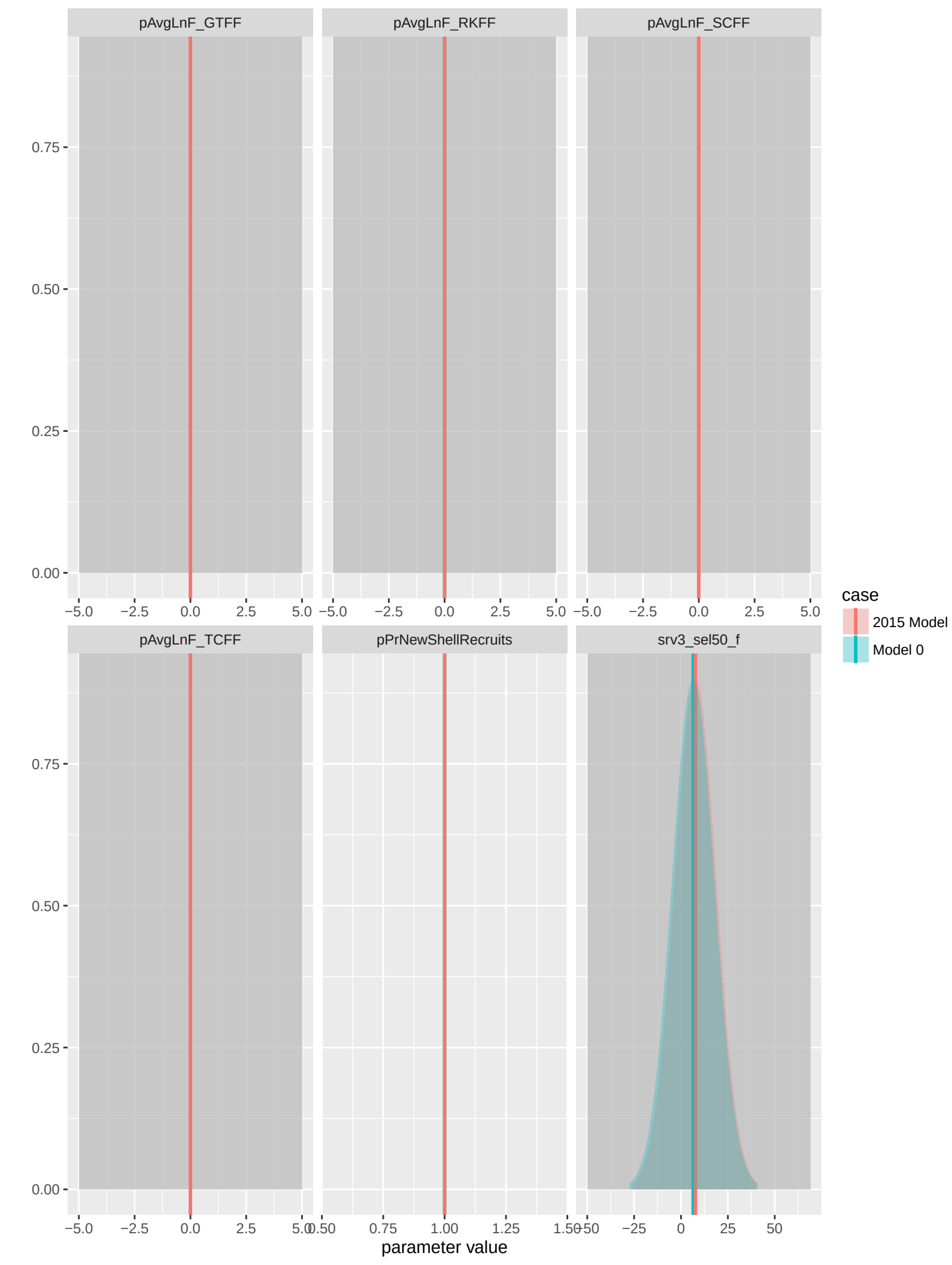

pPrM2MF[01]
pPrM2MF[02]
pPrM2MF[03]
pPrM2MF[04]
pPrM2MF[05]
pPrM2MF[06]
pPrM2MF[07]
pPrM2MF[08]
srv2a_sel50
srv3_q
srv3_sel50
srv3_seldiff
0.00
0.25
0.50
0.75
−15
−10
−5
0
25
50
75
100
125
0.5
1.0
1.5
2.0
0
20
40
60
parameter value
case
2015 Model
Model 0

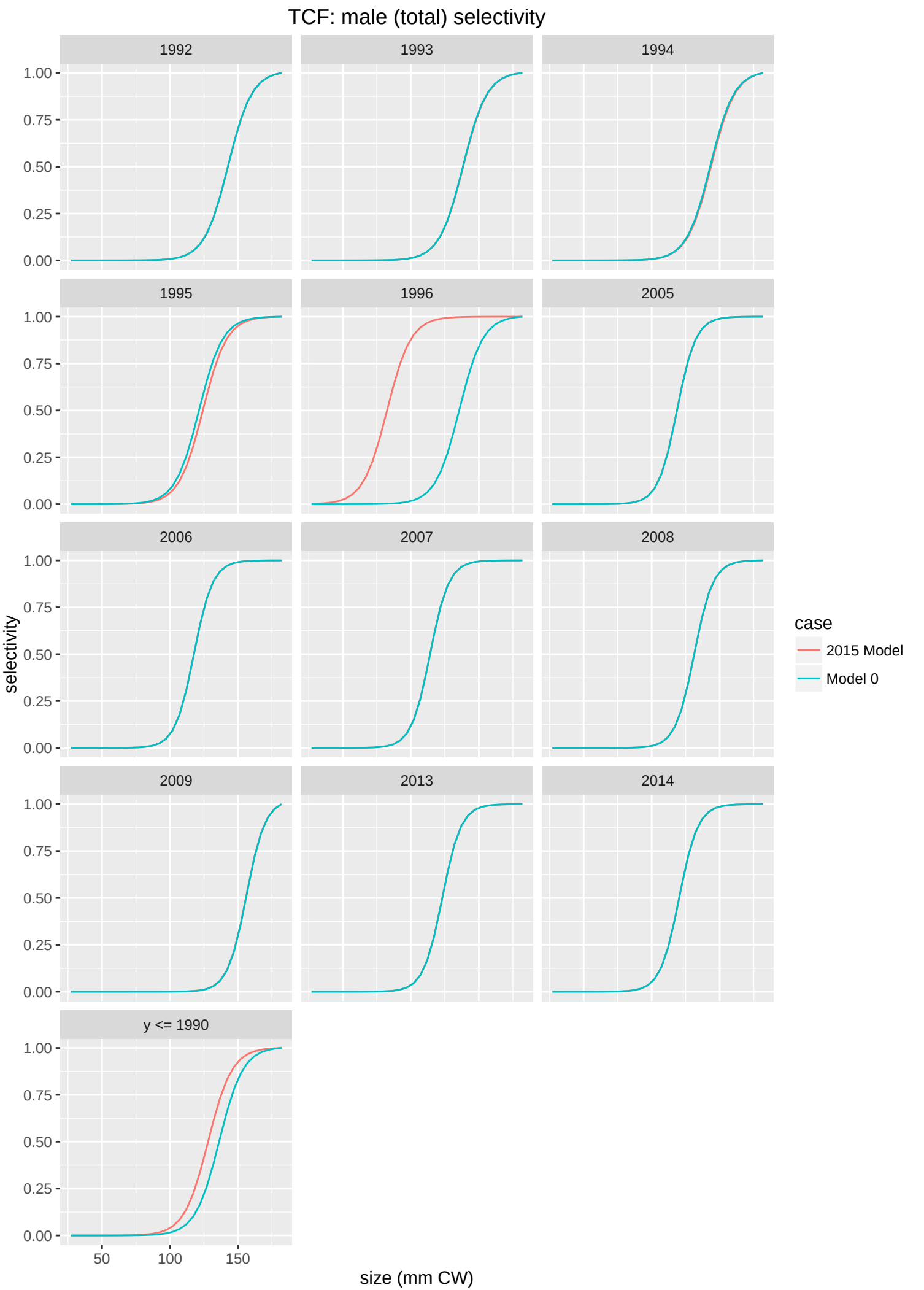

pPrM2MF[09]
pPrM2MF[10]
pPrM2MF[11]
pPrM2MF[12]
pPrM2MF[13]
pPrM2MF[14]
pPrM2MF[15]
pPrM2MF[16]
pPrM2MM[01]
pPrM2MM[02]
pPrM2MM[03]
pPrM2MM[04]
0.00
0.25
0.50
0.75
parameter value
case
2015 Model
Model 0

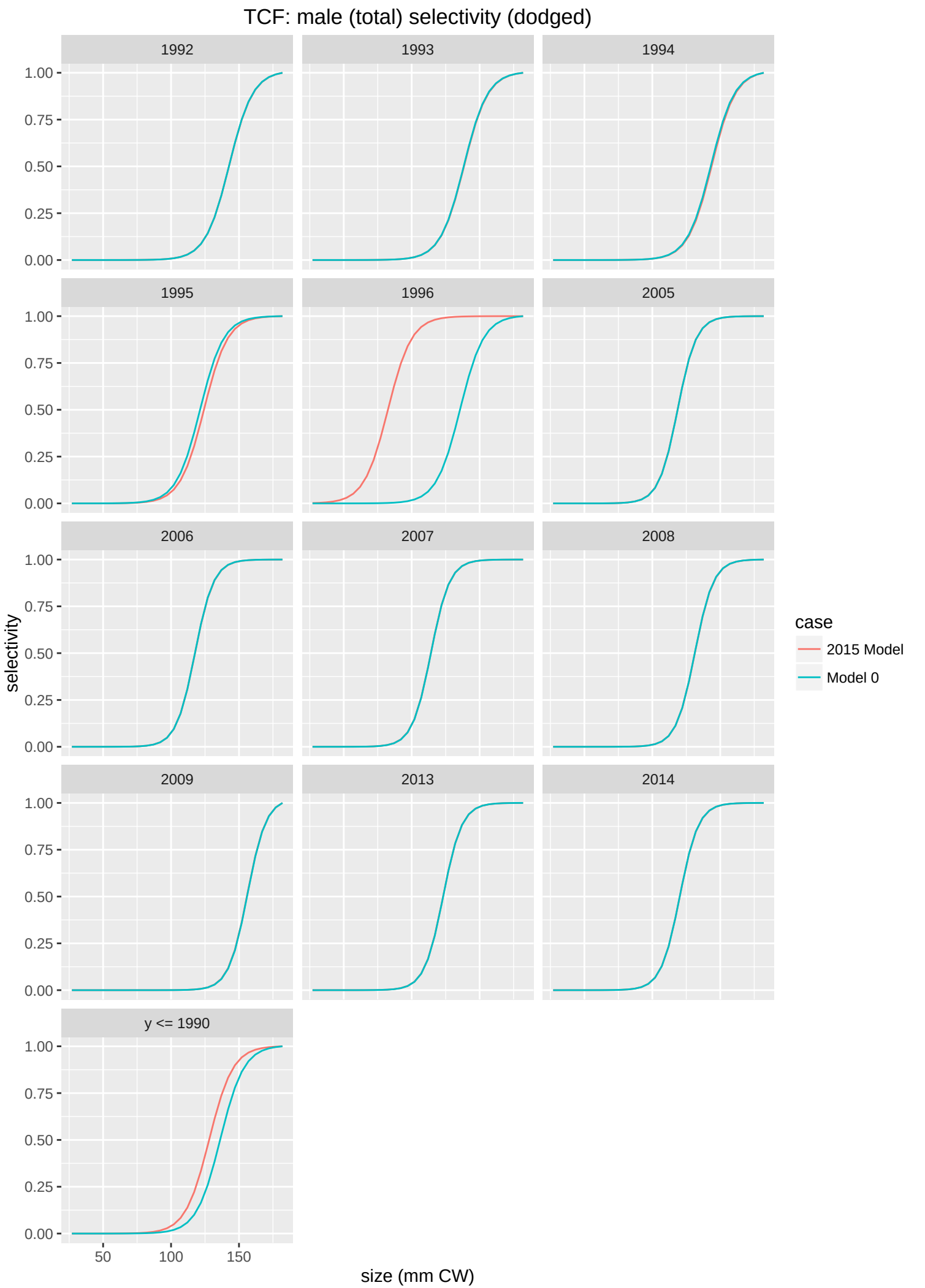

pPrM2MM[05]
pPrM2MM[06]
pPrM2MM[07]
pPrM2MM[08]
pPrM2MM[09]
pPrM2MM[10]
pPrM2MM[11]
pPrM2MM[12]
pPrM2MM[13]
pPrM2MM[14]
pPrM2MM[15]
pPrM2MM[16]
0.00
0.25
0.50
0.75
−15
−10
−5
0
parameter value
case
2015 Model
Model 0

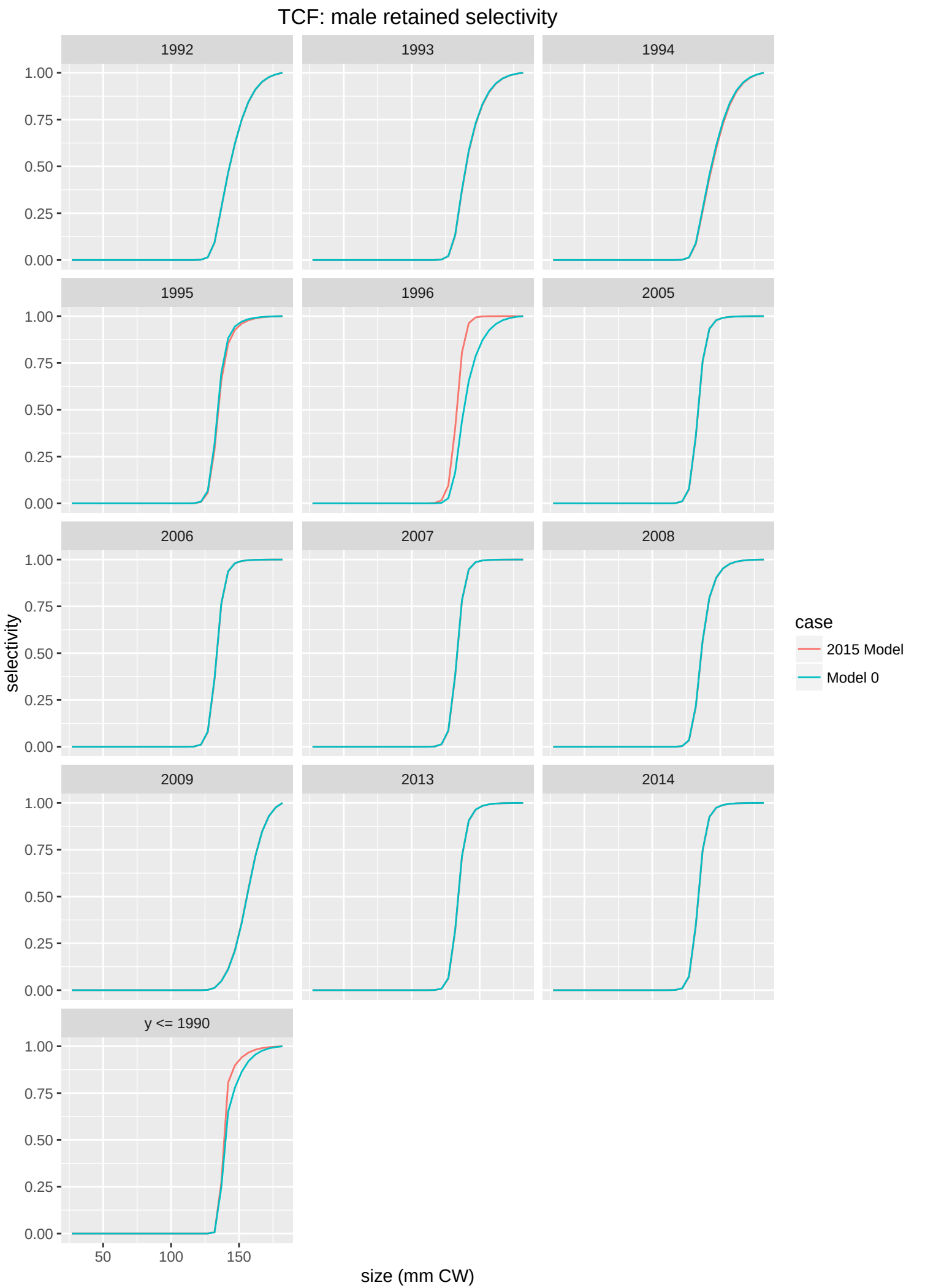

pPrM2MM[17]
pPrM2MM[18]
pPrM2MM[19]
pPrM2MM[20]
pPrM2MM[21]
pPrM2MM[22]
pPrM2MM[23]
pPrM2MM[24]
pPrM2MM[25]
pPrM2MM[26]
pPrM2MM[27]
pPrM2MM[28]
0.00
0.25
0.50
0.75
−15
−10
−5
0
parameter value
case
2015 Model
Model 0

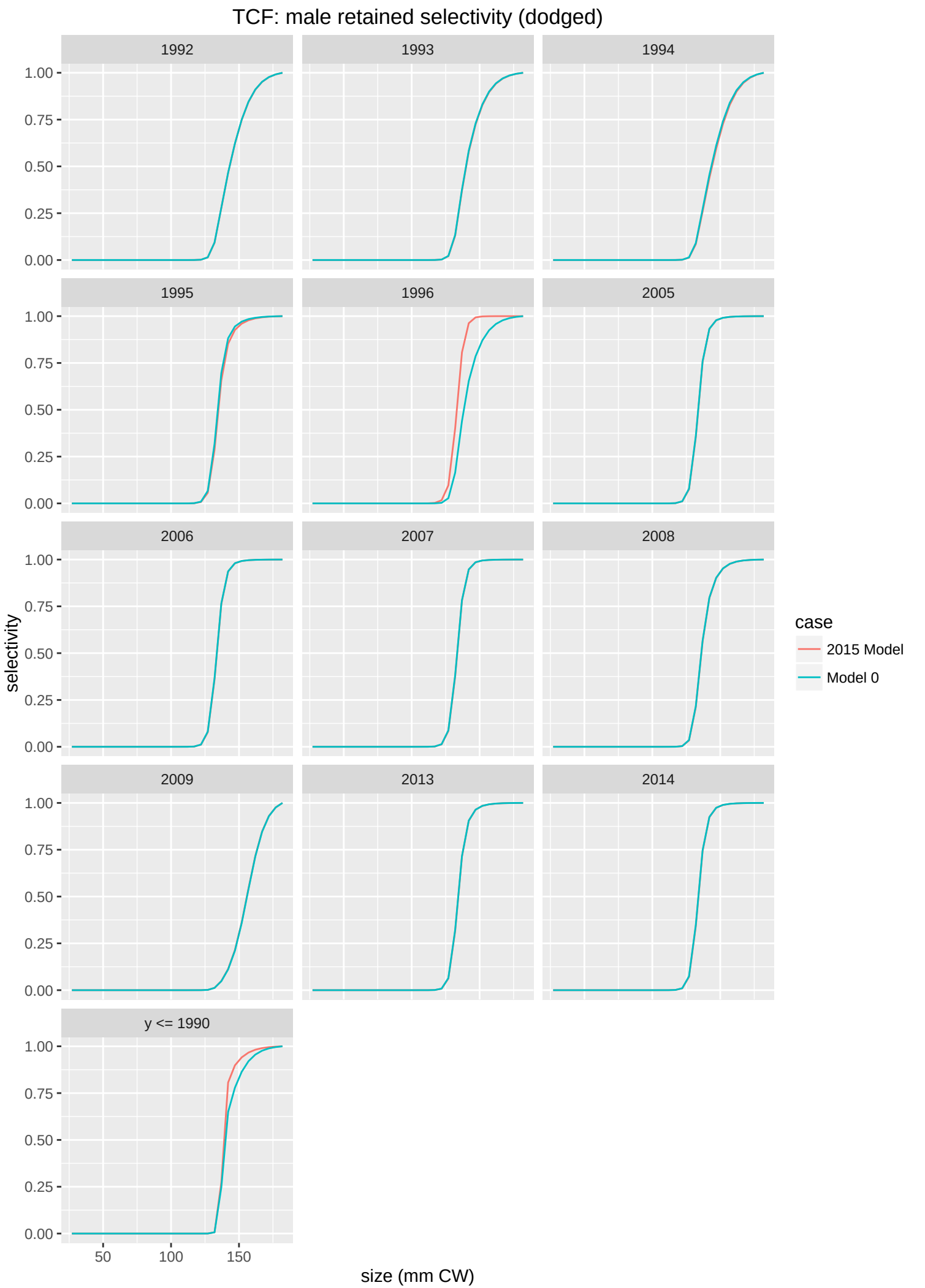

pPrM2MM[29]
pPrM2MM[30]
pPrM2MM[31]
pPrM2MM[32]
srv2_qFem
srv2_sel50_f
srv2_seldiff_f
srv2a_qFem
srv2a_sel50_f
srv2a_seldiff_f
srv3_qFem
srv3_seldiff_f
0.00
0.25
0.50
0.75
−15
−10
−5
0
0.5
0.6
0.7
0.8
0.9
1.0
−200
−100
100
25
50
75
0.2
0.4
case
2015 Model
Model 0
parameter value

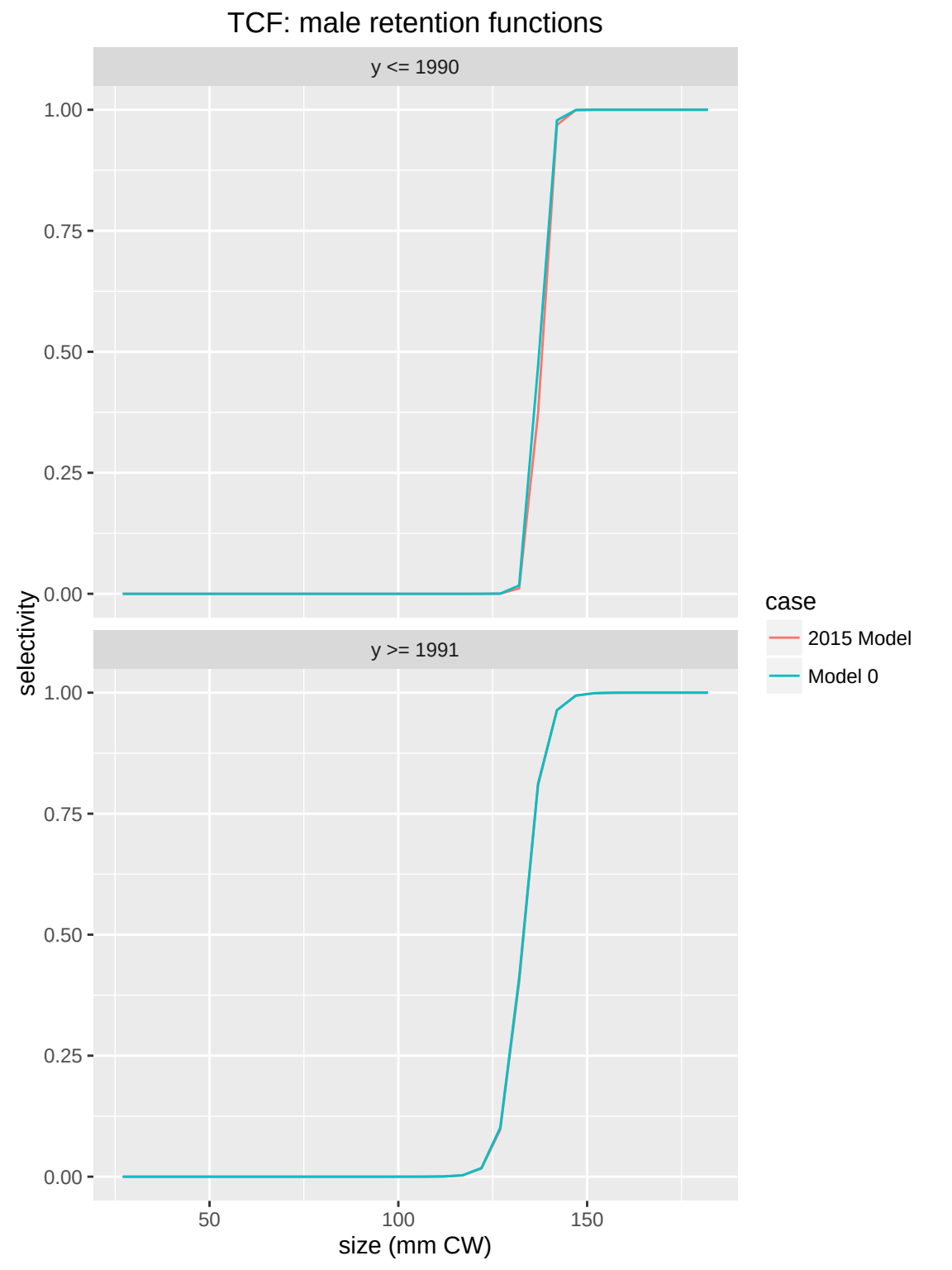

pAvgLnF_GTFF
pAvgLnF_RKFF
pAvgLnF_SCFF
pAvgLnF_TCFF
pPrNewShellRecruits
srv3_sel50_f
0.00
0.25
0.50
0.75
−5.0
−2.5
0.0
2.5
5.0
0.50
0.75
1.00
1.25
1.50
−50
−25
0
25
50
parameter value
case
2015 Model
Model 0

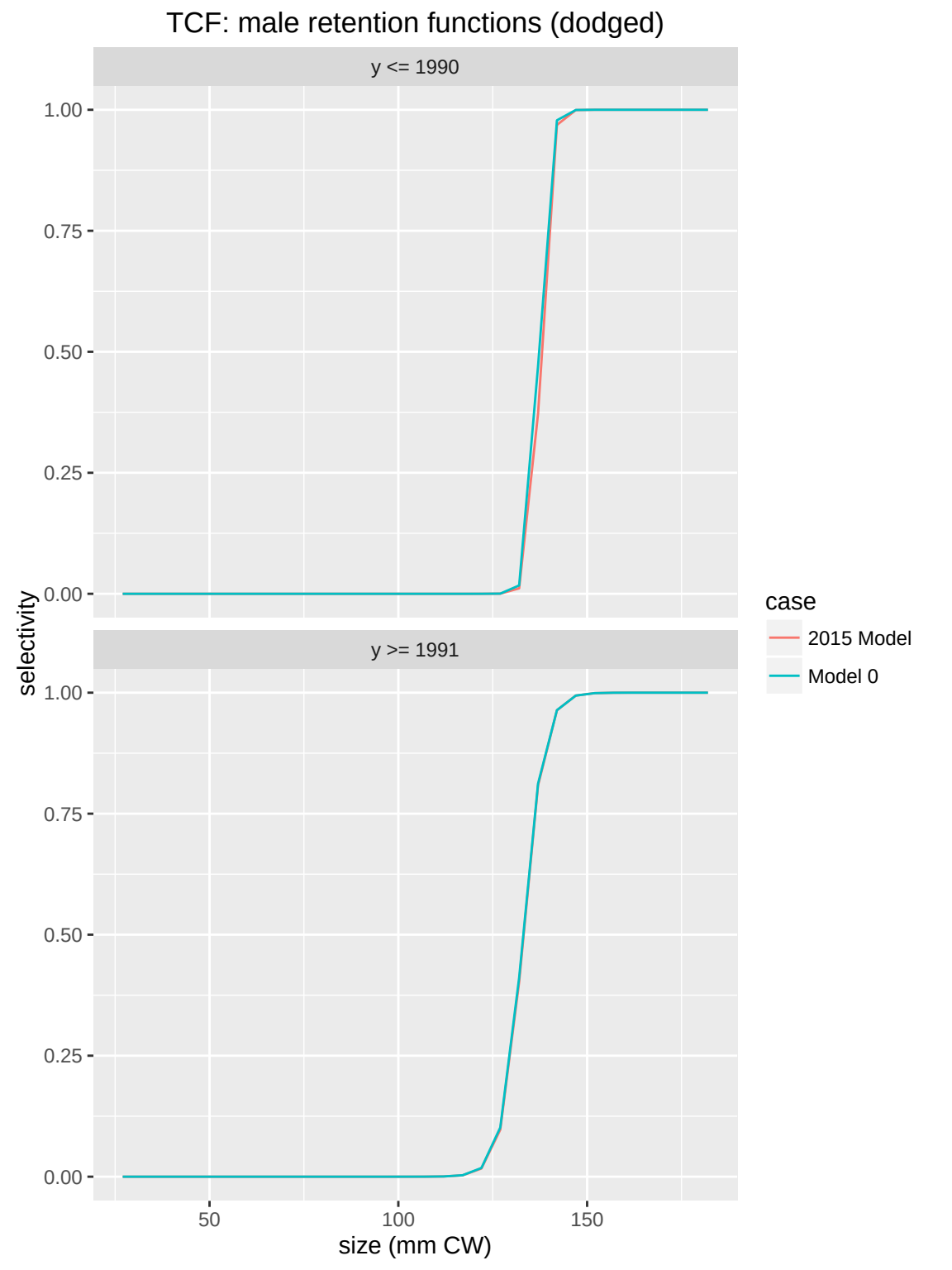

TCF: male (total) selectivity
1992
1993
1994
1995
1996
2005
2006
2007
2008
2009
2013
2014
y <= 1990
1.00
0.75
0.50
0.25
0.00
selectivity
50
100
150
size (mm CW)
case
2015 Model
Model 0

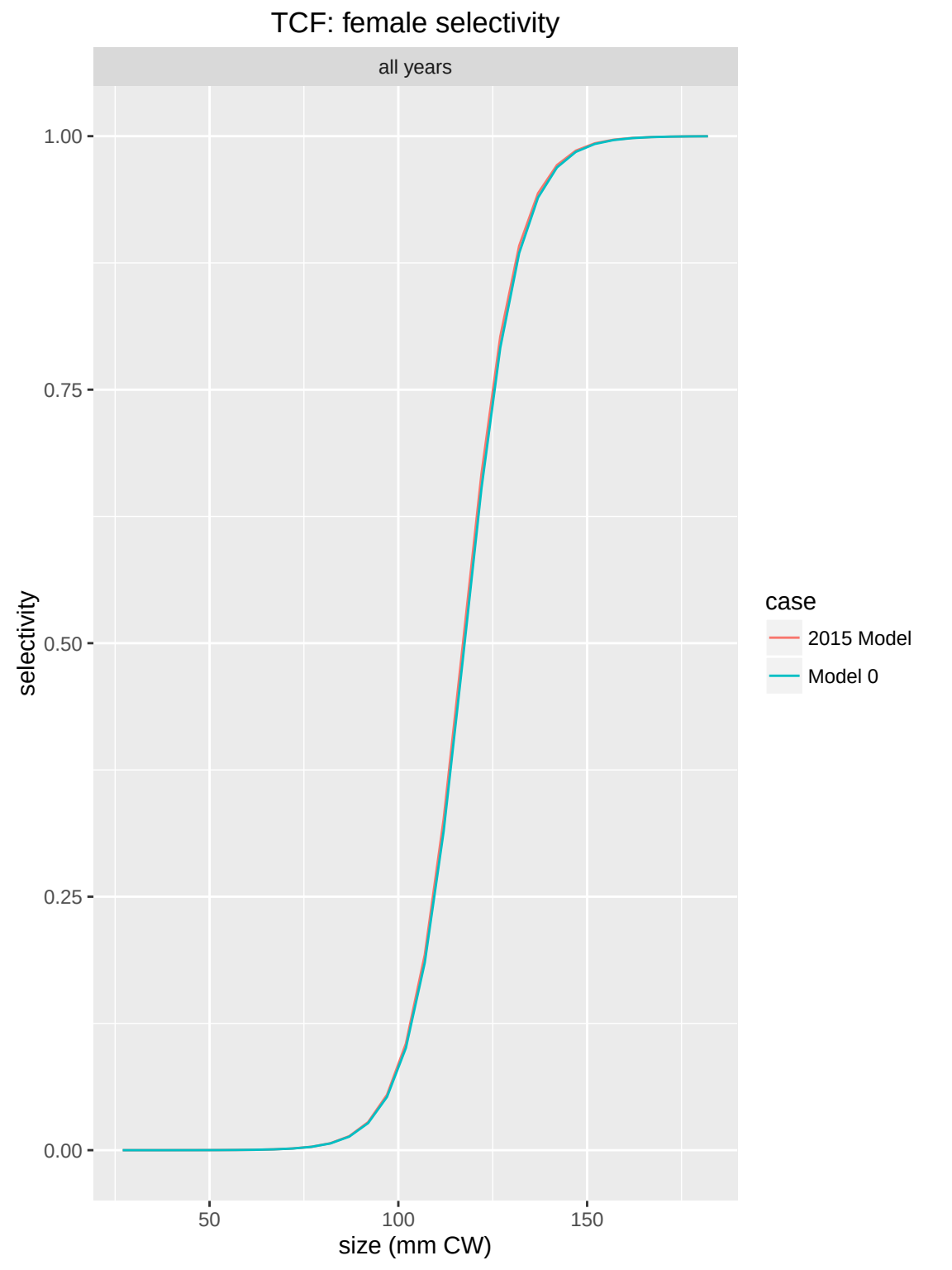

TCF: male (total) selectivity (dodged)
1992
1993
1994
1995
1996
2005
2006
2007
2008
2009
2013
2014
y <= 1990
selectivity
size (mm CW)
case
2015 Model
Model 0

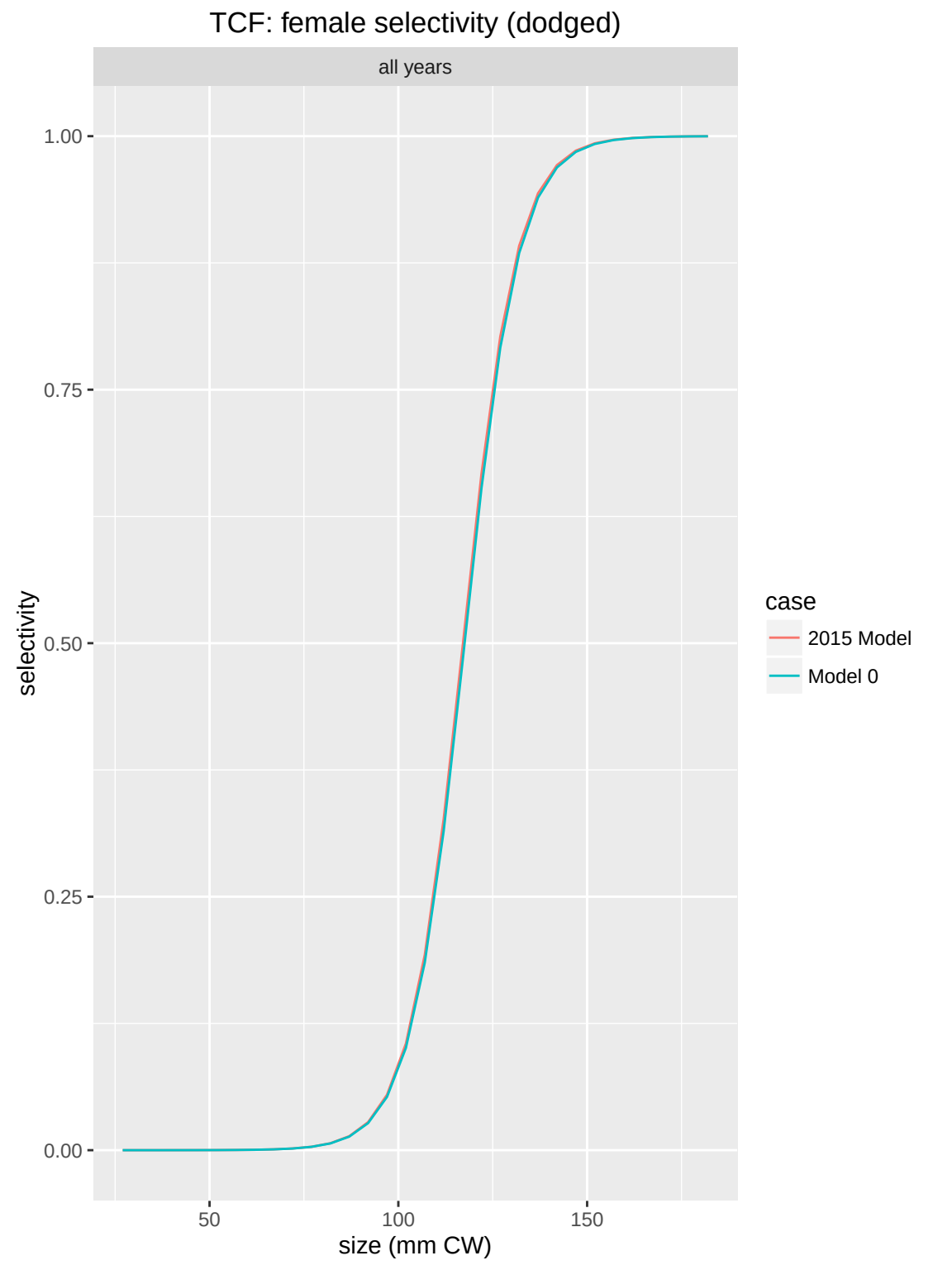

TCF: male retained selectivity
1992
1993
1994
1995
1996
2005
2006
2007
2008
2009
2013
2014
y <= 1990
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

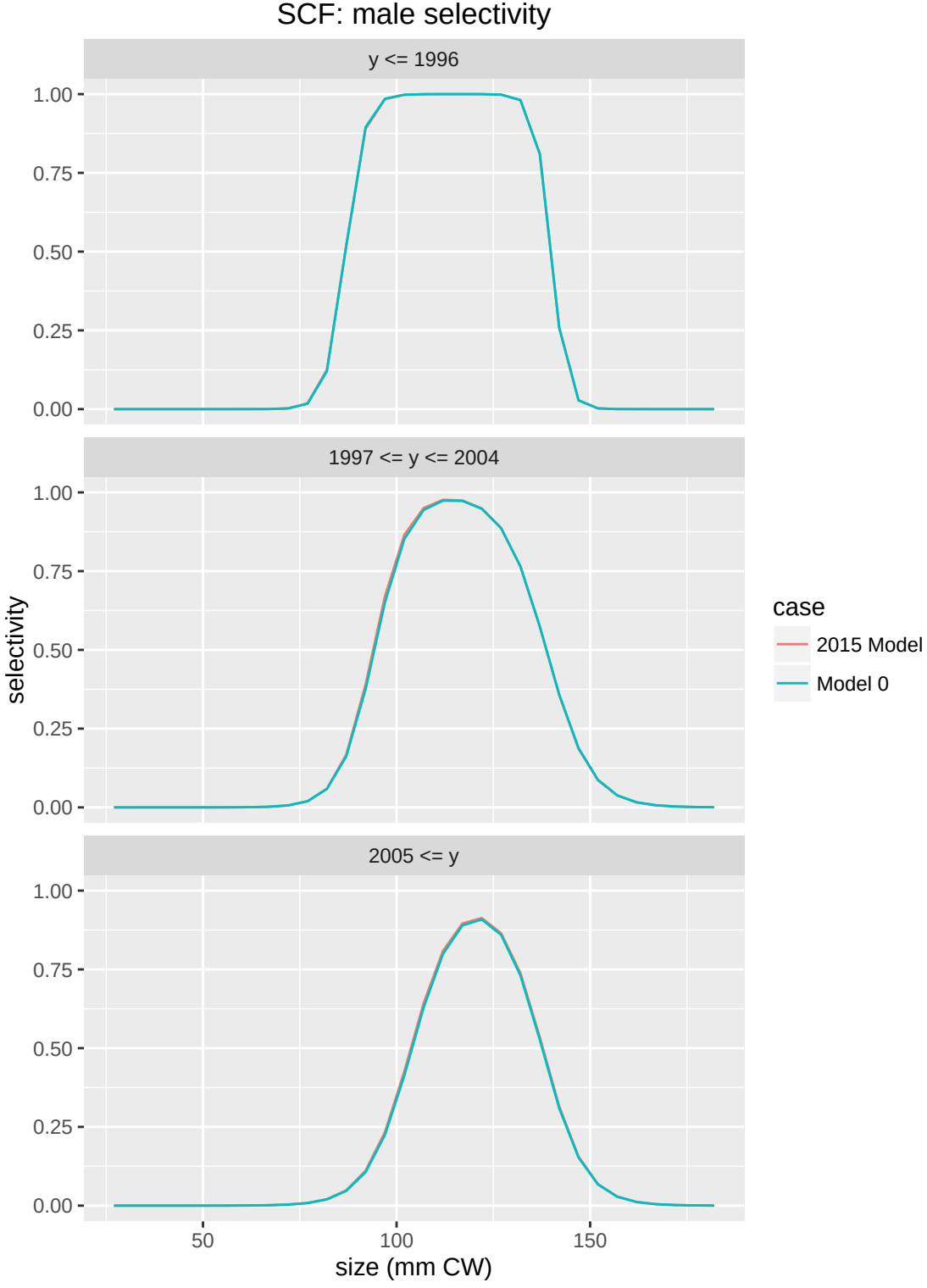

TCF: male retained selectivity (dodged)
1992
1993
1994
1995
1996
2005
2006
2007
2008
2009
2013
2014
y <= 1990
selectivity
size (mm CW)
case
2015 Model
Model 0

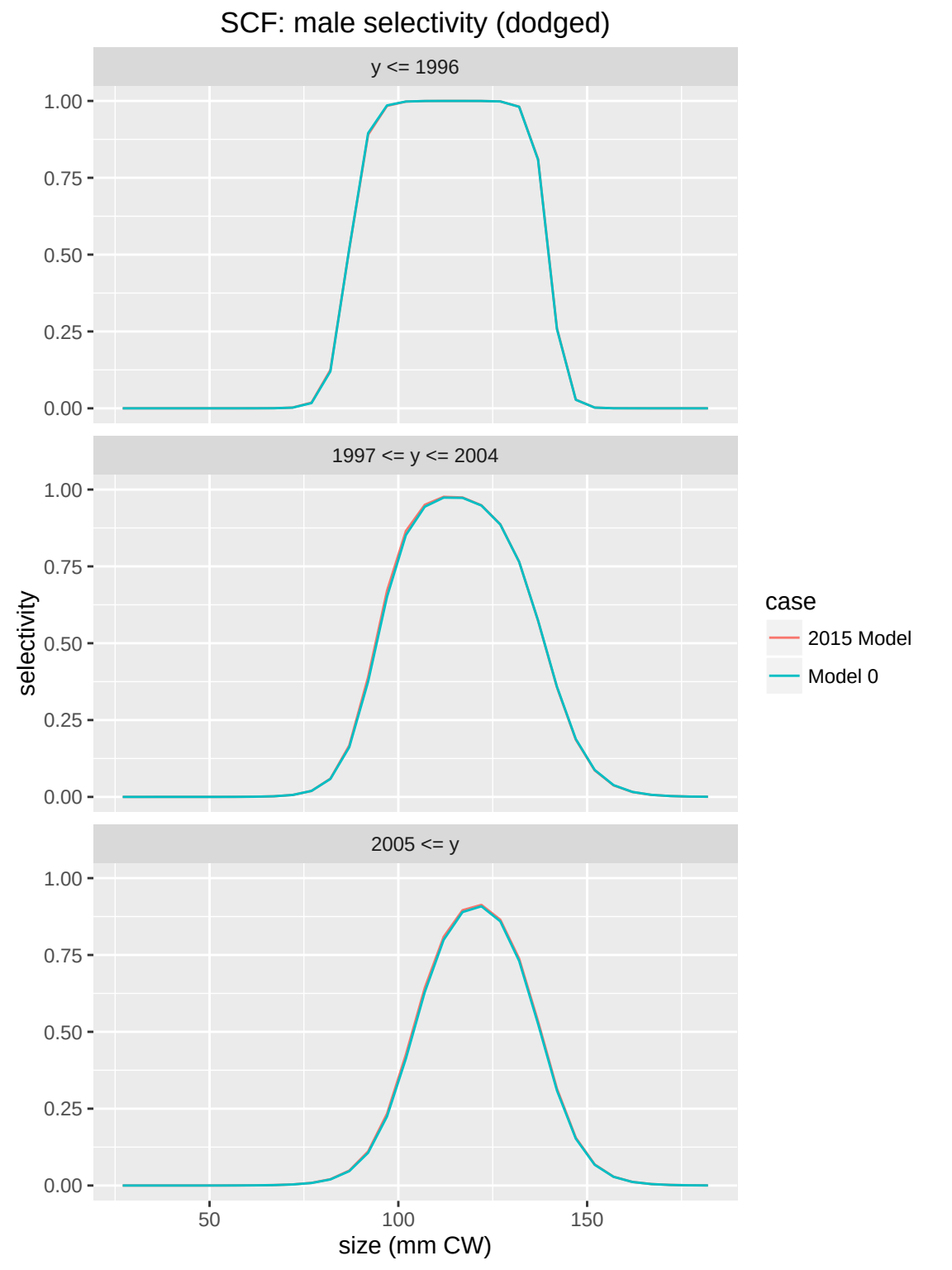

TCF: male retention functions
y <= 1990
y >= 1991
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

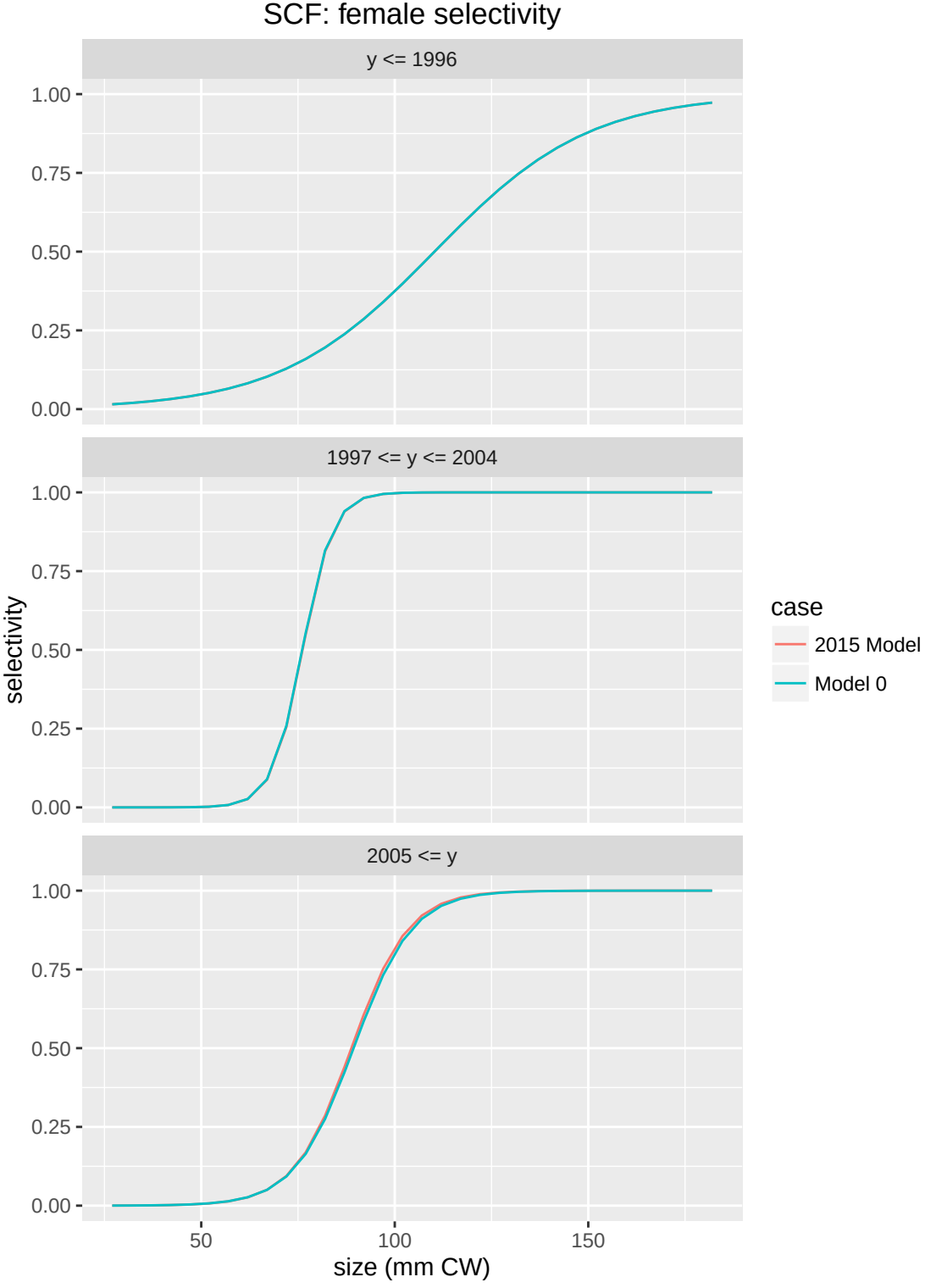

TCF: male retention functions (dodged)
y <= 1990
y >= 1991
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

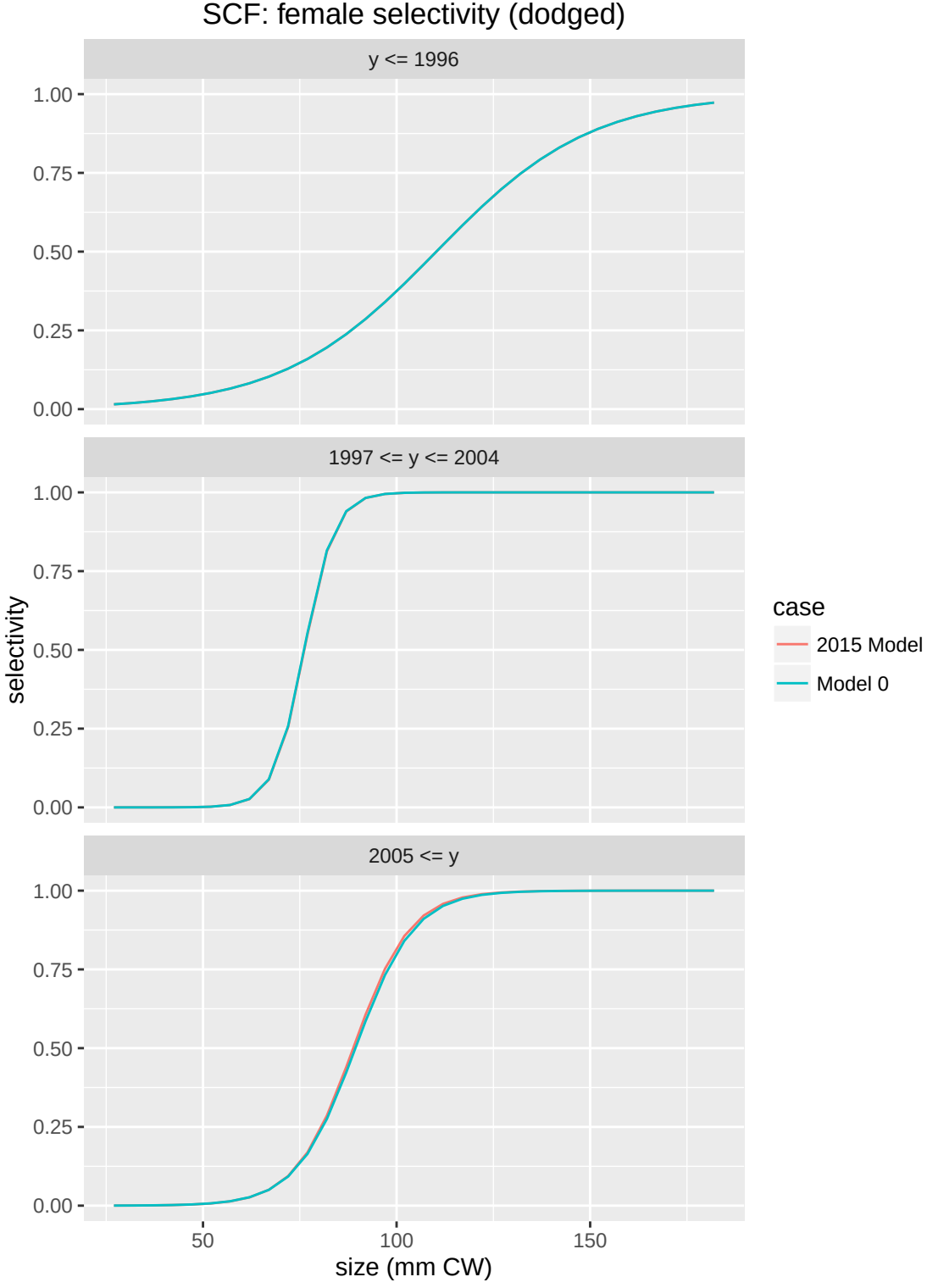

TCF: female selectivity
all years
1.00
0.75
0.50
0.25
0.00
selectivity
50
100
150
size (mm CW)
case
2015 Model
Model 0

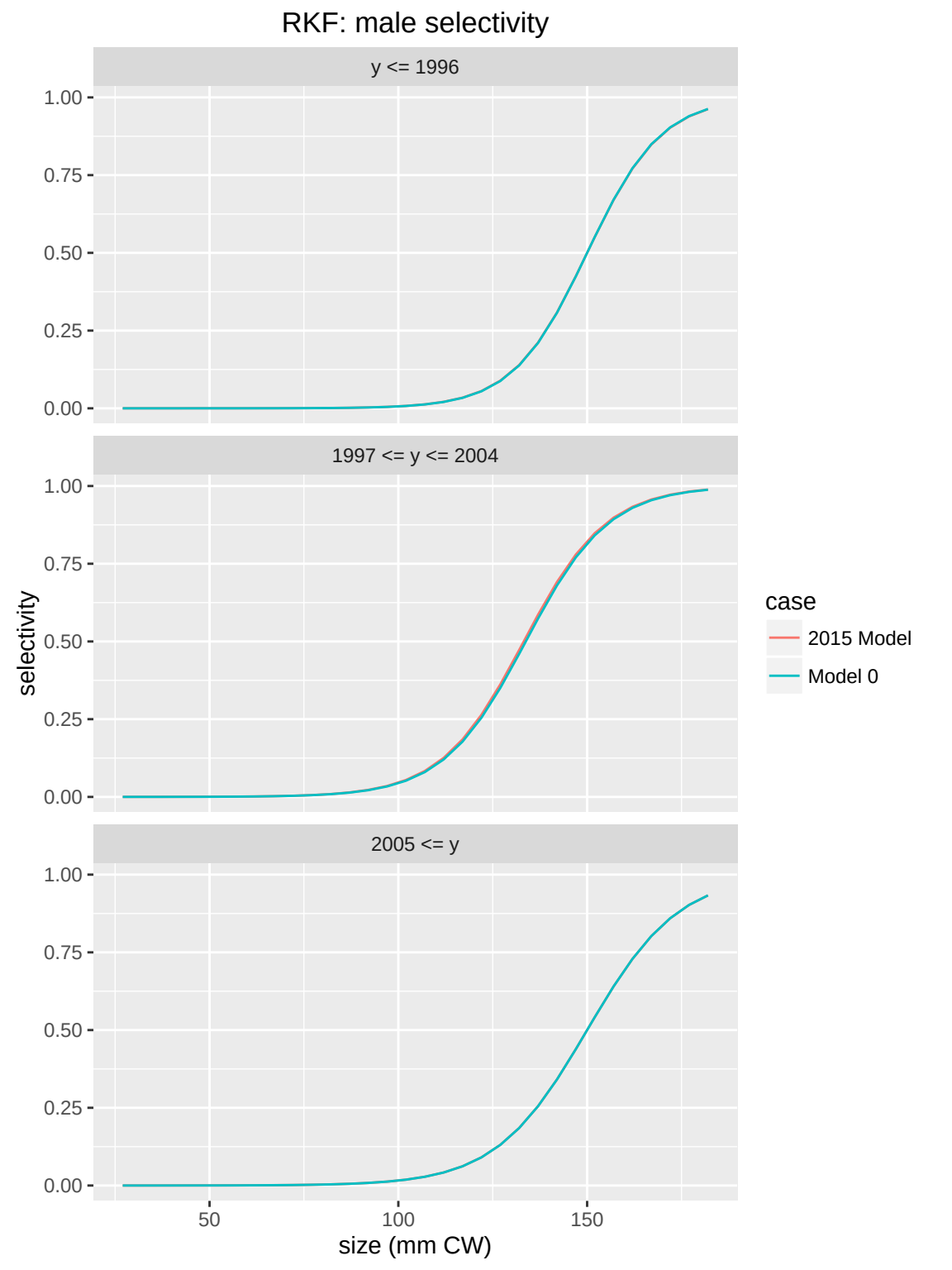

TCF: female selectivity (dodged)
all years
1.00
0.75
0.50
0.25
0.00
selectivity
50
100
150
size (mm CW)
case
2015 Model
Model 0

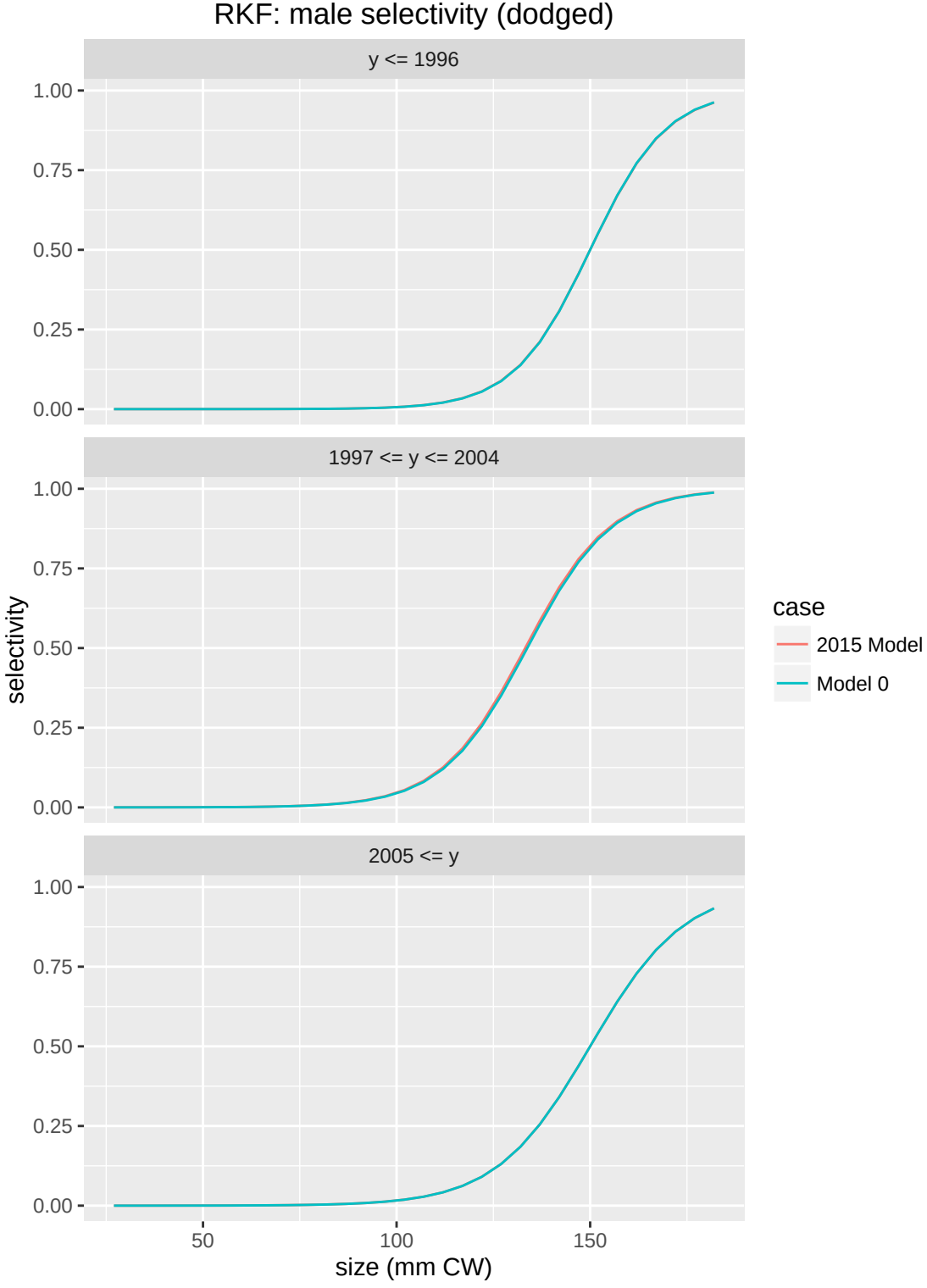

SCF: male selectivity
y <= 1996
1997 <= y <= 2004
2005 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

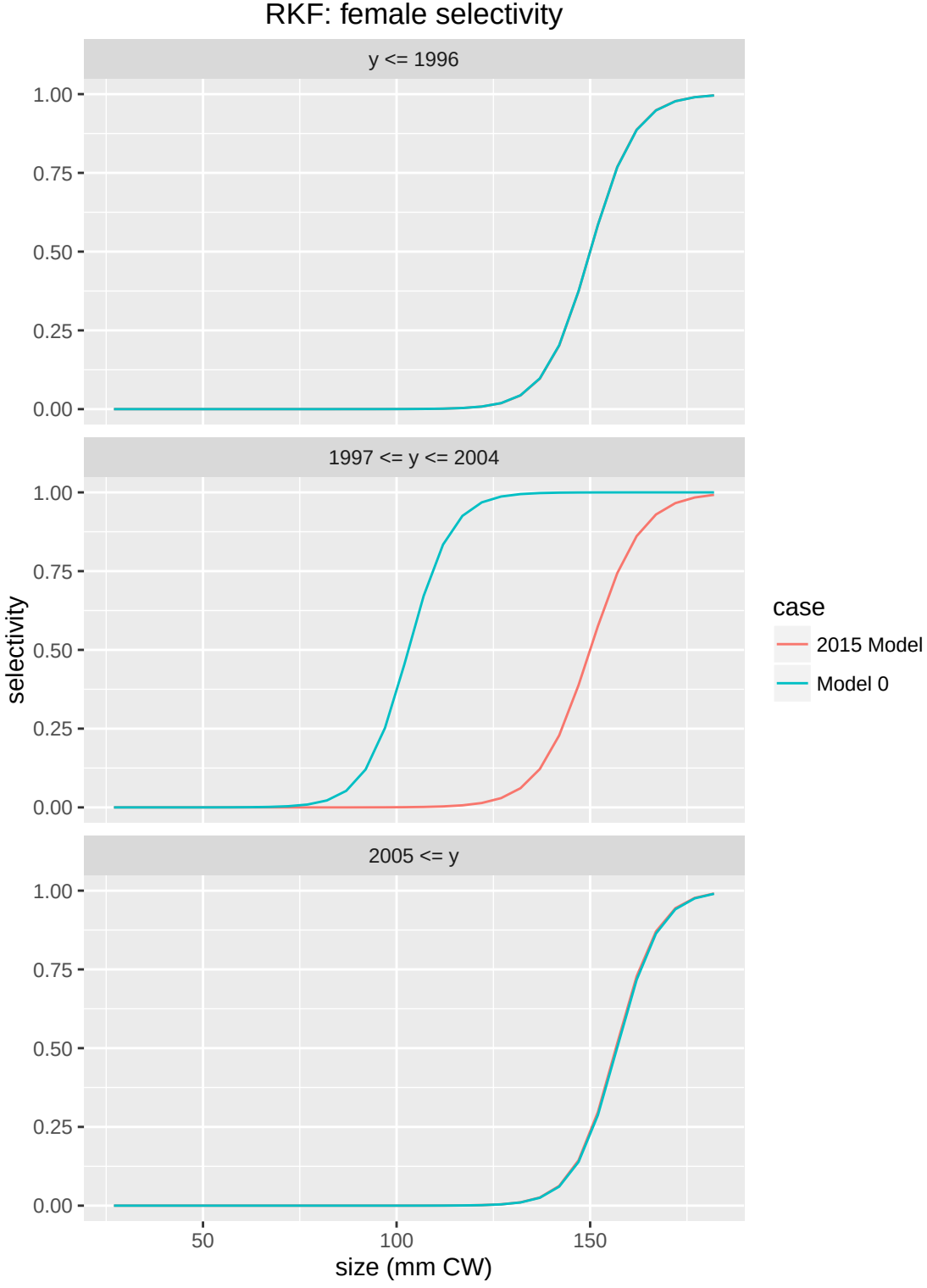

SCF: male selectivity (dodged)
y <= 1996
1997 <= y <= 2004
2005 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

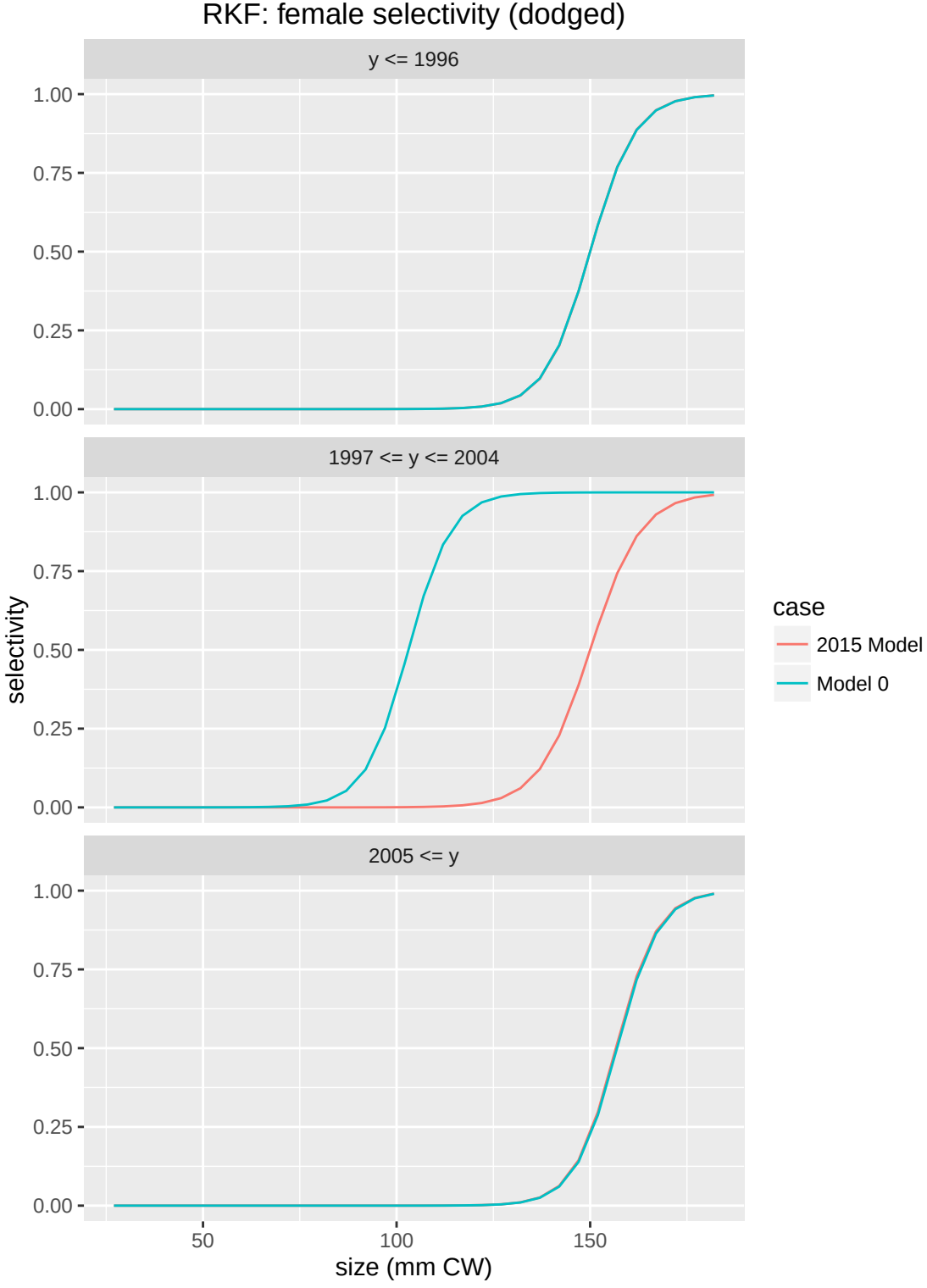

SCF: female selectivity
y <= 1996
1997 <= y <= 2004
2005 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

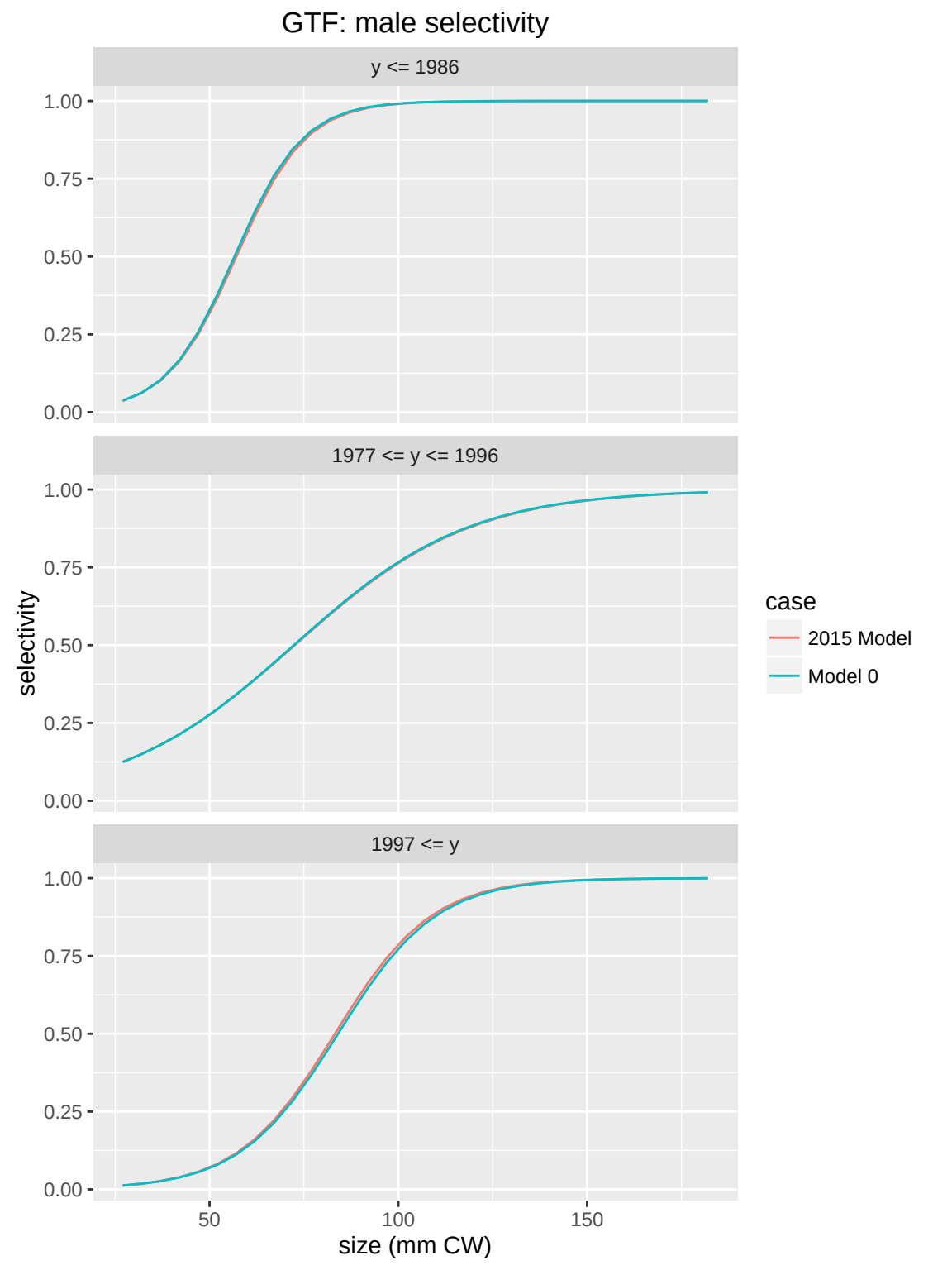

SCF: female selectivity (dodged)
y <= 1996
1997 <= y <= 2004
2005 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

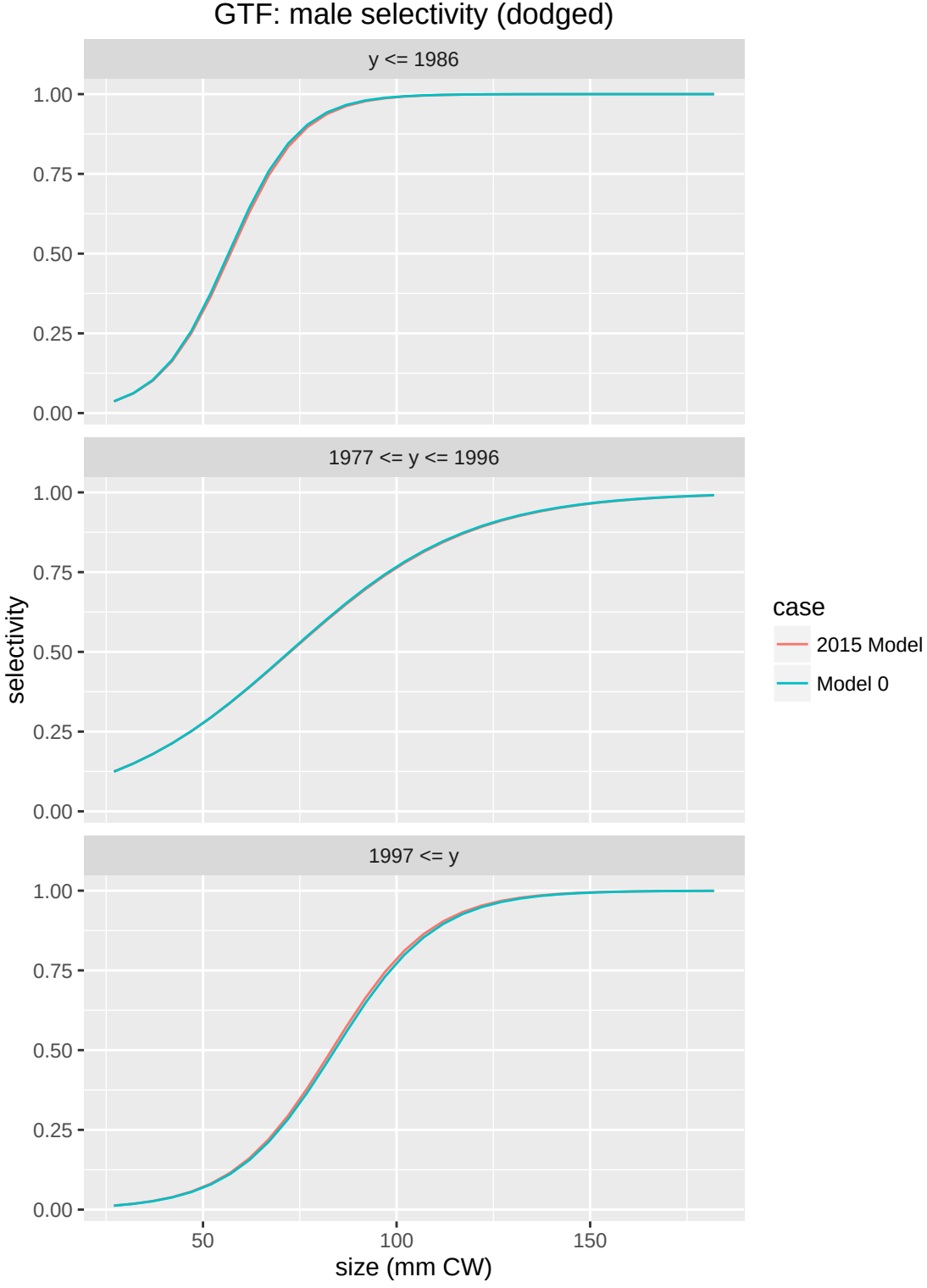

RKF: male selectivity
y <= 1996
1997 <= y <= 2004
2005 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

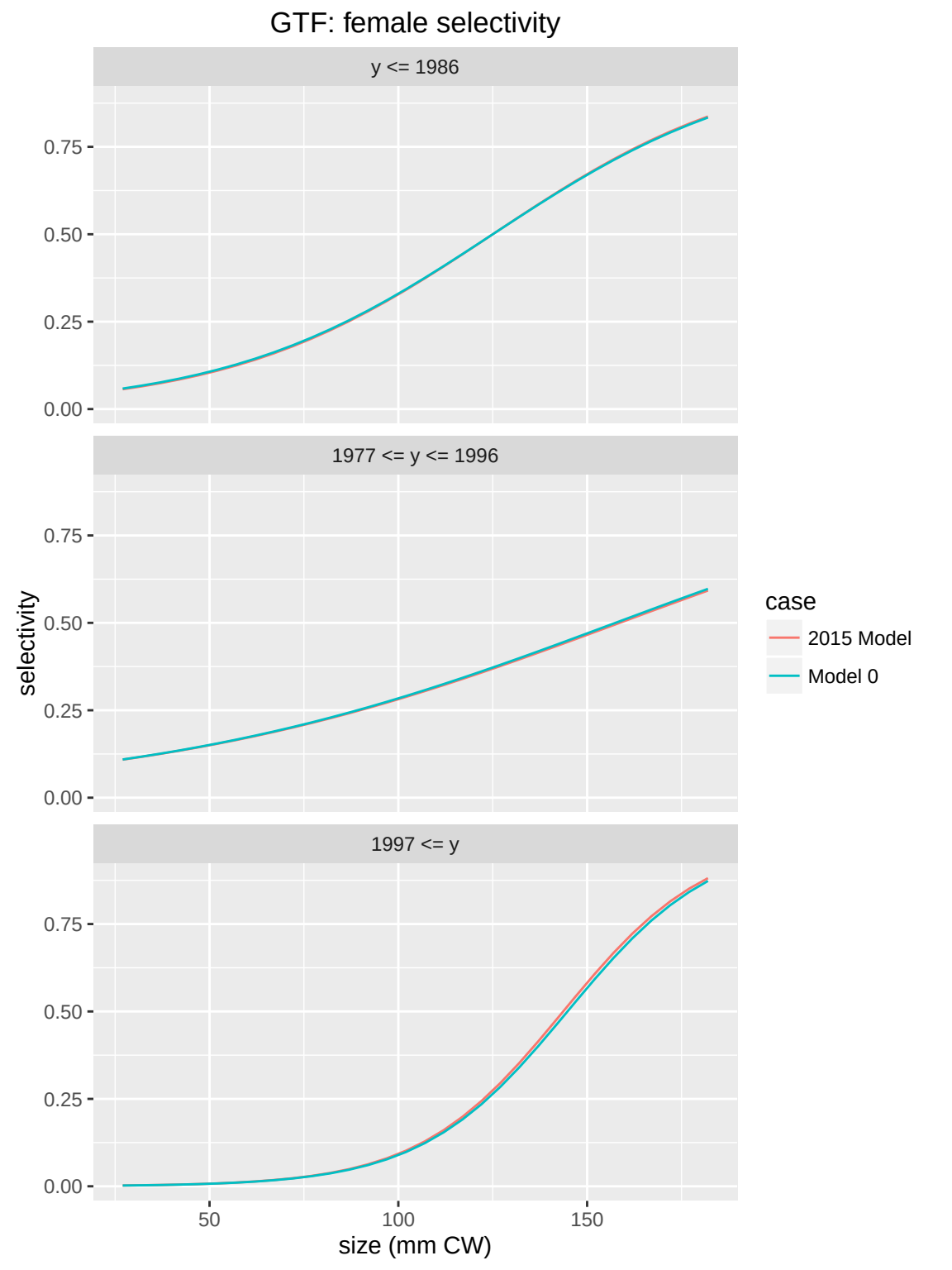

RKF: male selectivity (dodged)
y <= 1996
1997 <= y <= 2004
2005 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

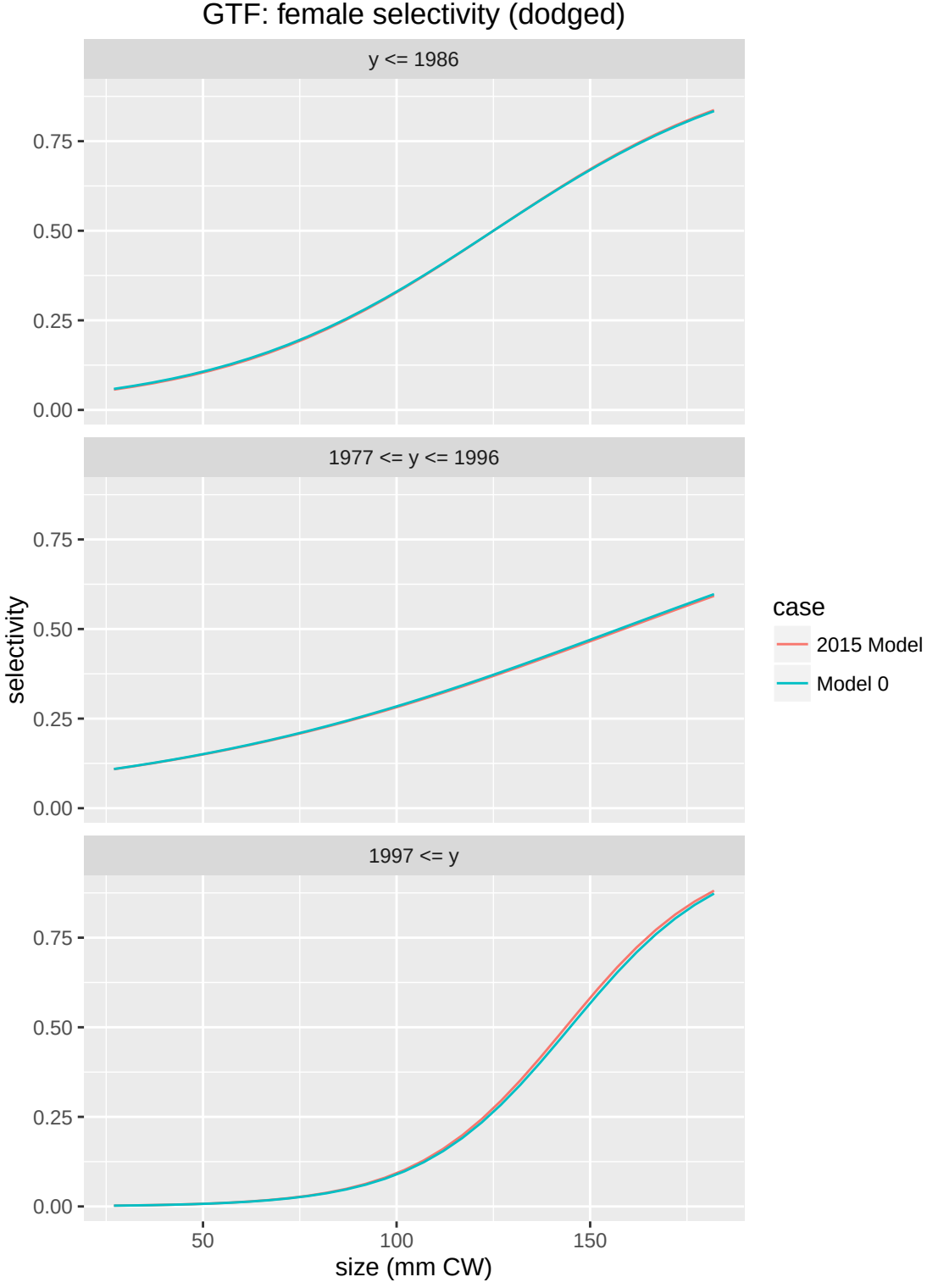

RKF: female selectivity
y <= 1996
1997 <= y <= 2004
2005 <= y
selectivity
size (mm CW)
1.00
0.75
0.50
0.25
0.00
50
100
150
case
2015 Model
Model 0

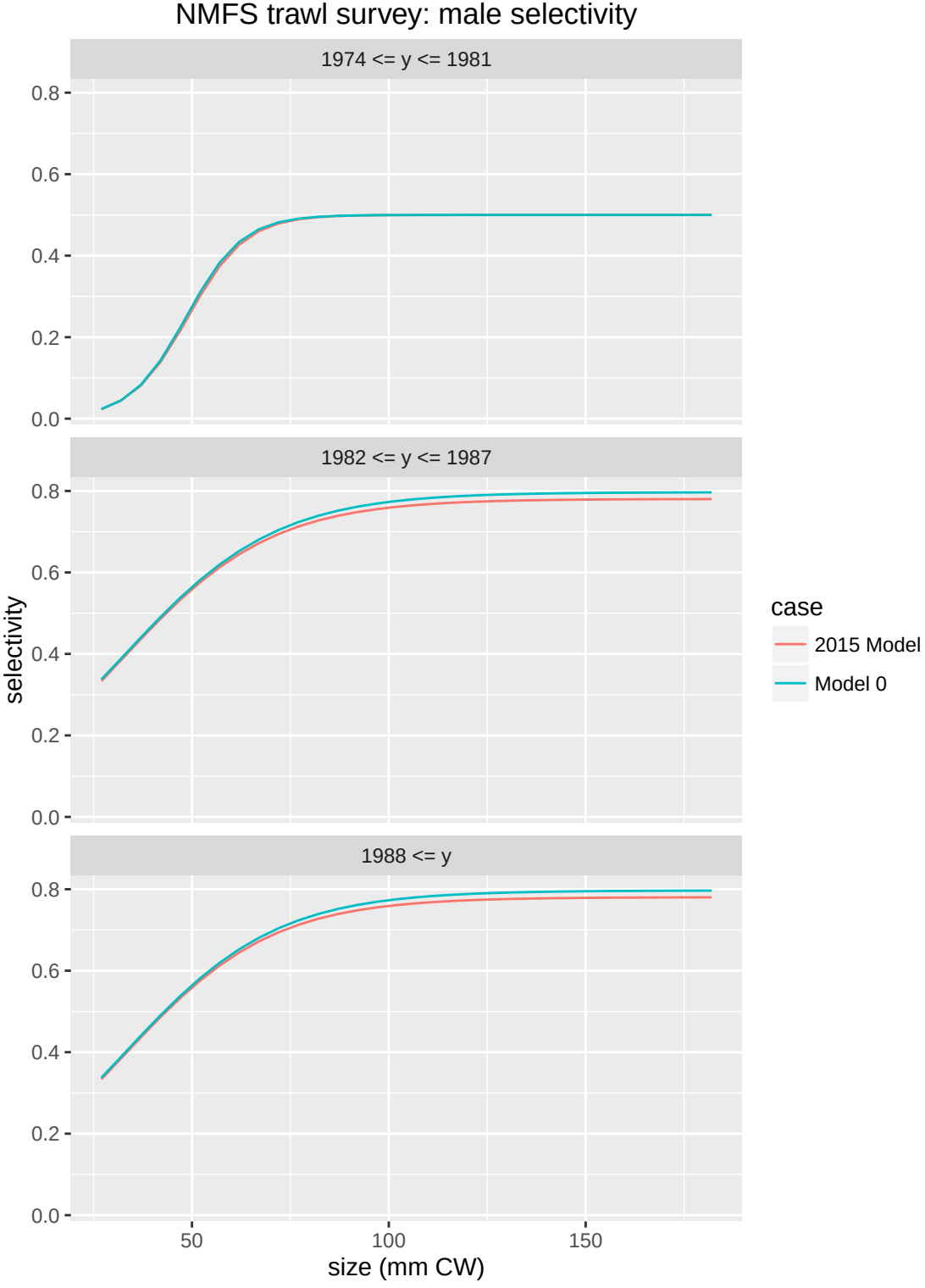

RKF: female selectivity (dodged)
y <= 1996
1997 <= y <= 2004
2005 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

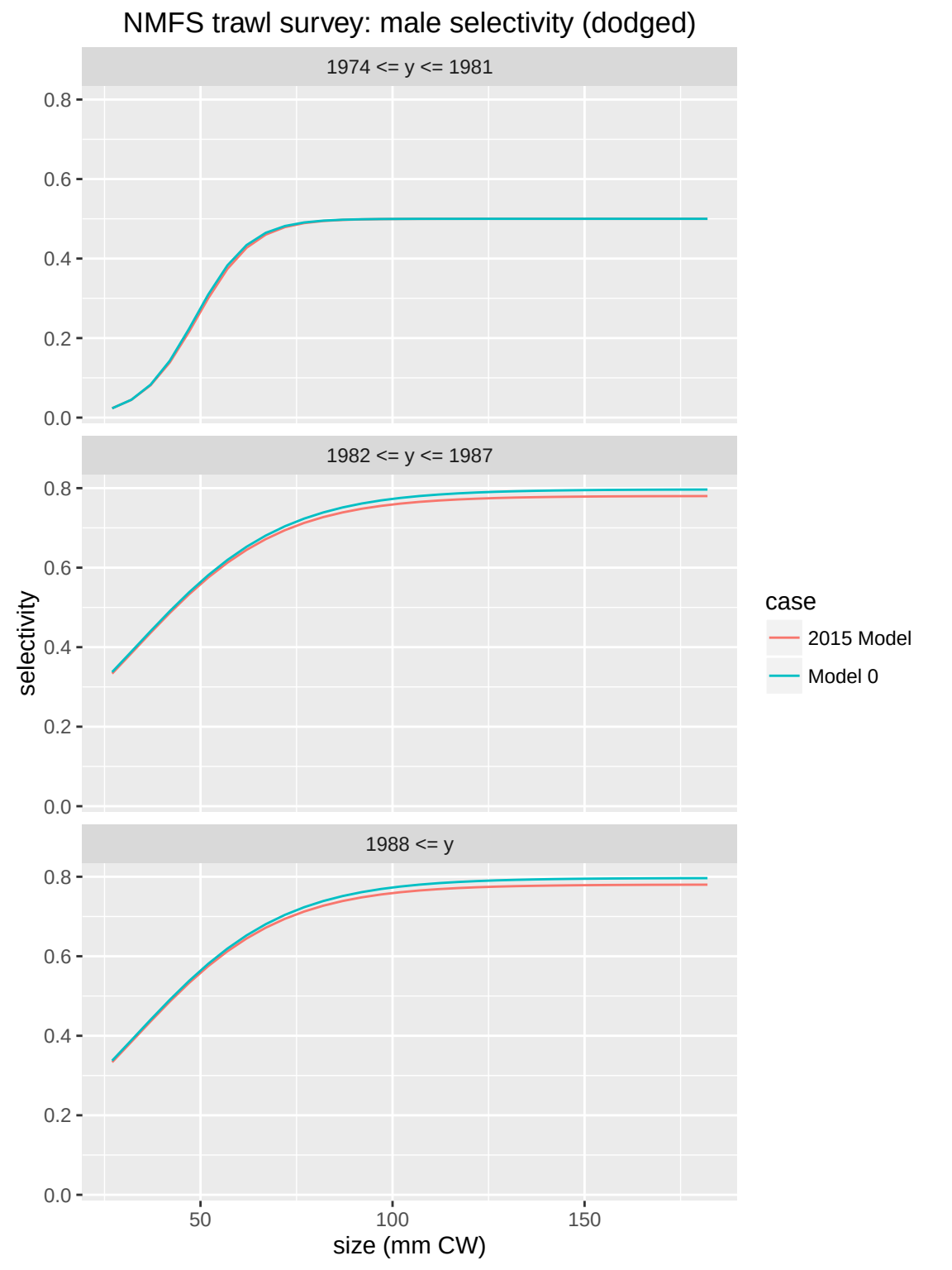

GTF: male selectivity
y <= 1986
1977 <= y <= 1996
1997 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

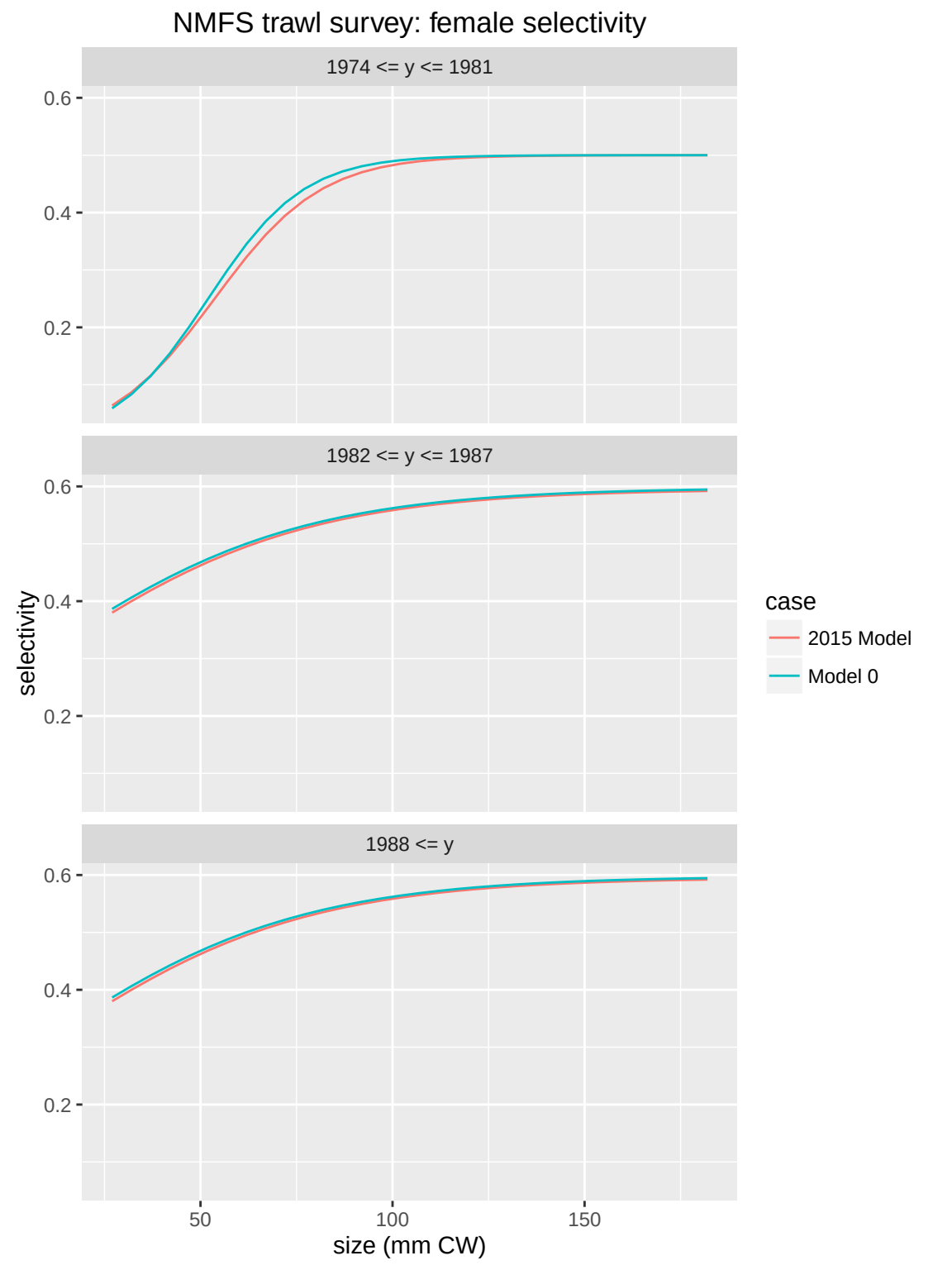

GTF: male selectivity (dodged)
y <= 1986
1977 <= y <= 1996
1997 <= y
selectivity
1.00
0.75
0.50
0.25
0.00
50
100
150
size (mm CW)
case
2015 Model
Model 0

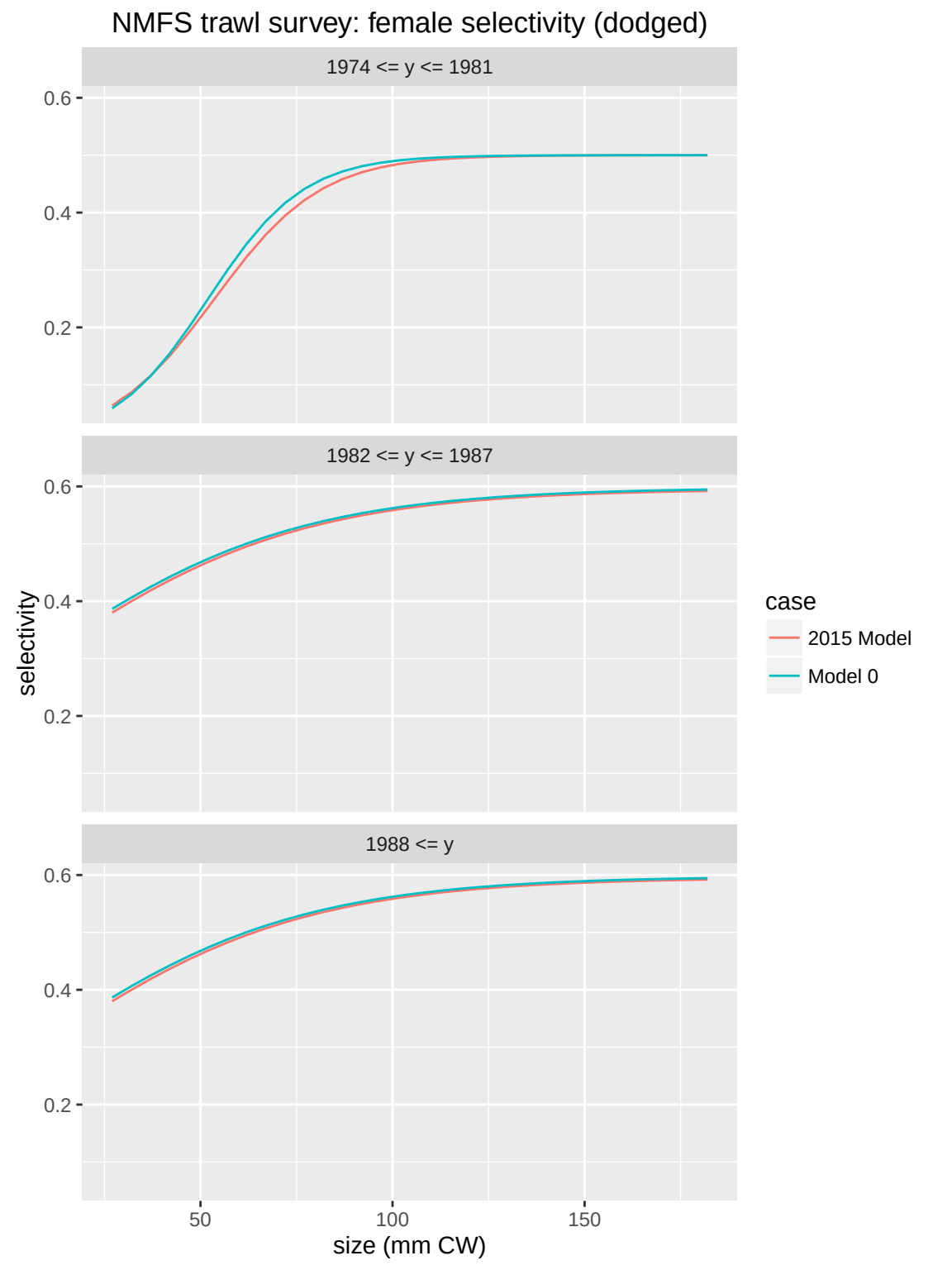

GTF: female selectivity
y <= 1986
1977 <= y <= 1996
1997 <= y
selectivity
0.00
0.25
0.50
0.75
50
100
150
size (mm CW)
case
2015 Model
Model 0


GTF: female selectivity (dodged)
y <= 1986
1977 <= y <= 1996
1997 <= y
selectivity
0.00
0.25
0.50
0.75
50
100
150
size (mm CW)
case
2015 Model
Model 0


NMFS trawl survey: male selectivity
1974 <= y <= 1981
1982 <= y <= 1987
1988 <= y
selectivity
0.0
0.2
0.4
0.6
0.8
50
100
150
size (mm CW)
case
2015 Model
Model 0


NMFS trawl survey: male selectivity (dodged)
1974 <= y <= 1981
1982 <= y <= 1987
1988 <= y
selectivity
0.0
0.2
0.4
0.6
0.8
50
100
150
size (mm CW)
case
2015 Model
Model 0


NMFS trawl survey: female selectivity
1974 <= y <= 1981
1982 <= y <= 1987
1988 <= y
selectivity
0.6
0.4
0.2
50
100
150
size (mm CW)
case
2015 Model
Model 0


NMFS trawl survey: female selectivity (dodged)
1974 <= y <= 1981
1982 <= y <= 1987
1988 <= y
selectivity
0.6
0.4
0.2
50
100
150
size (mm CW)
case
2015 Model
Model 0