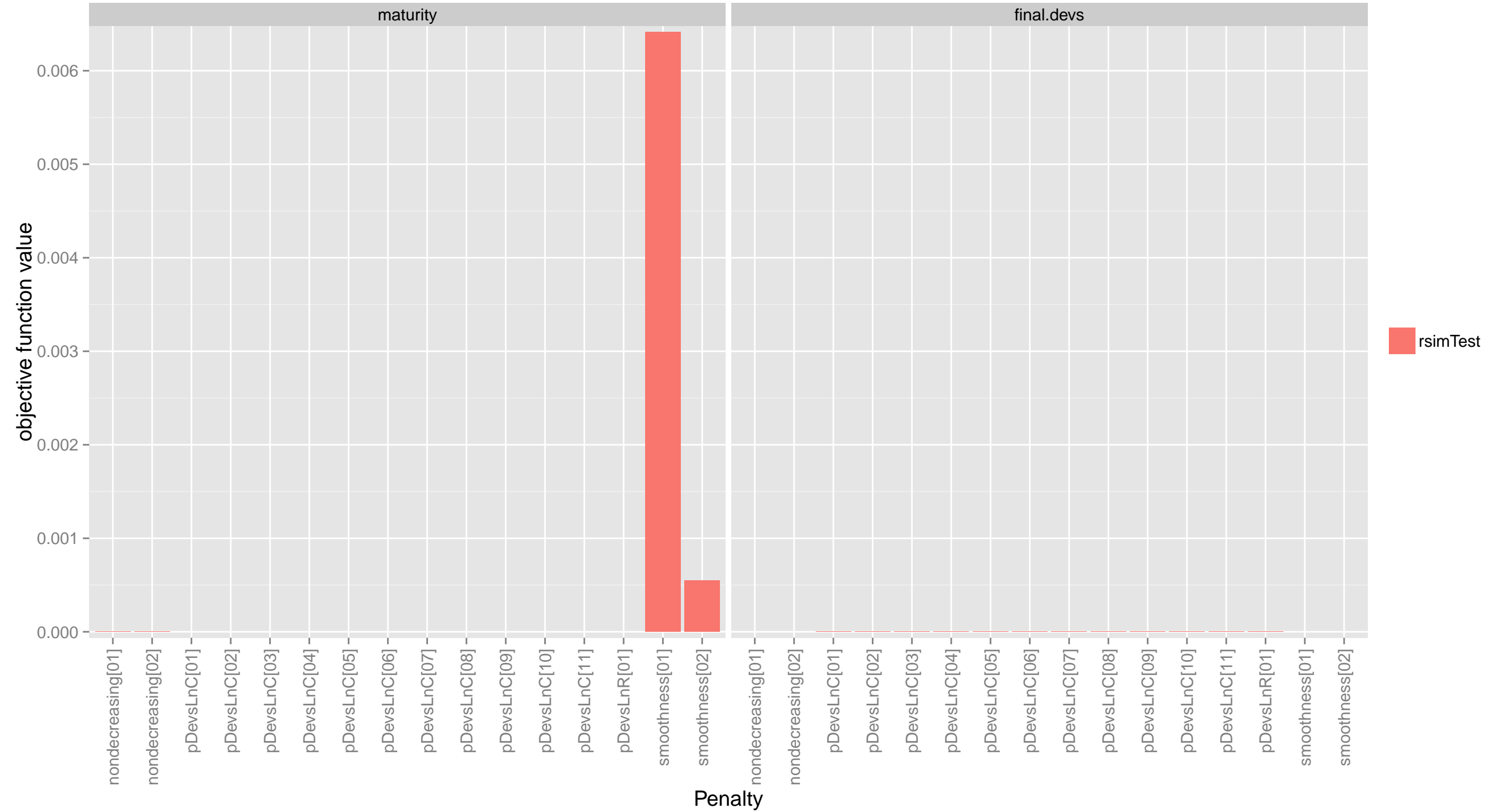
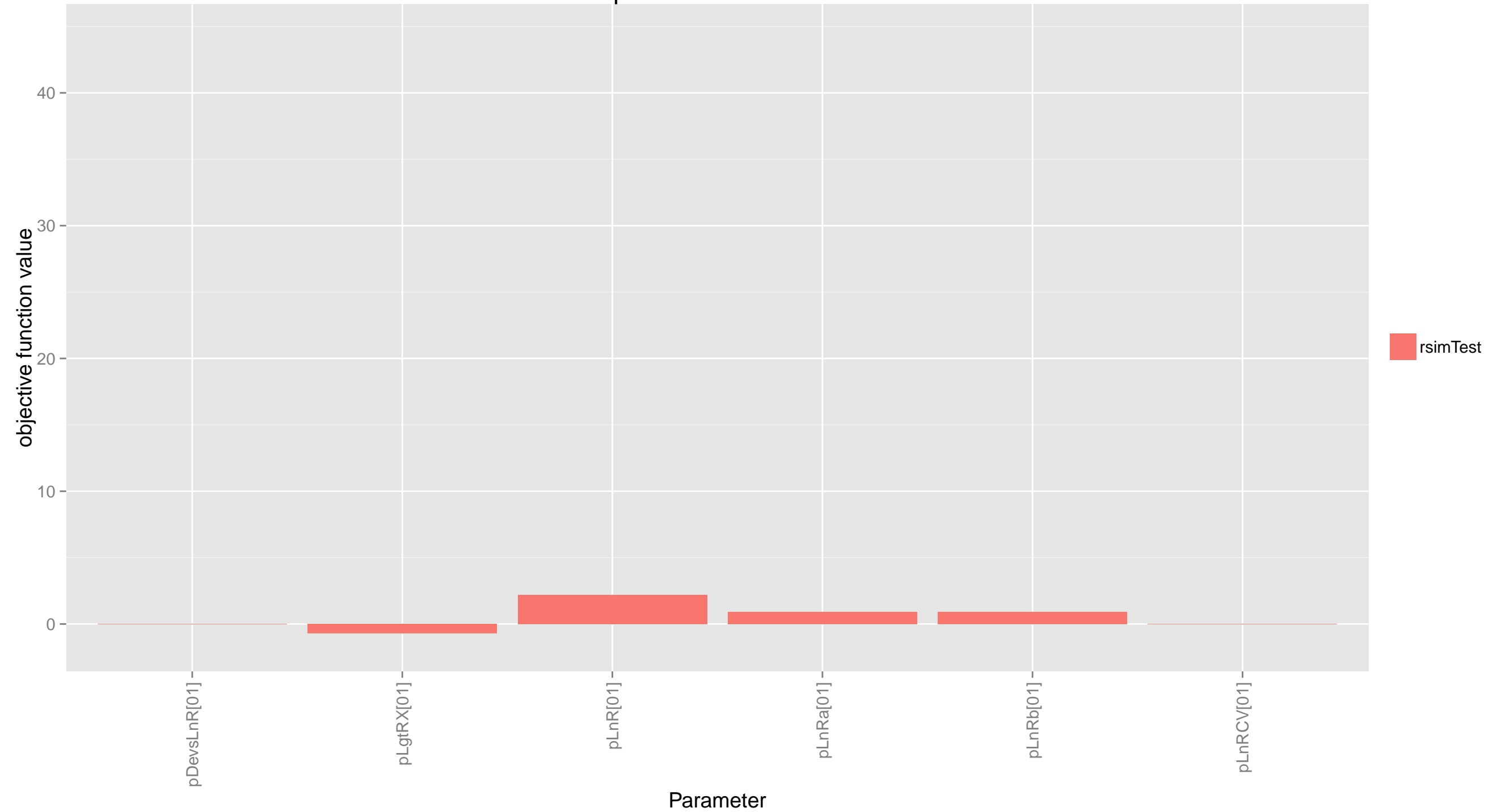


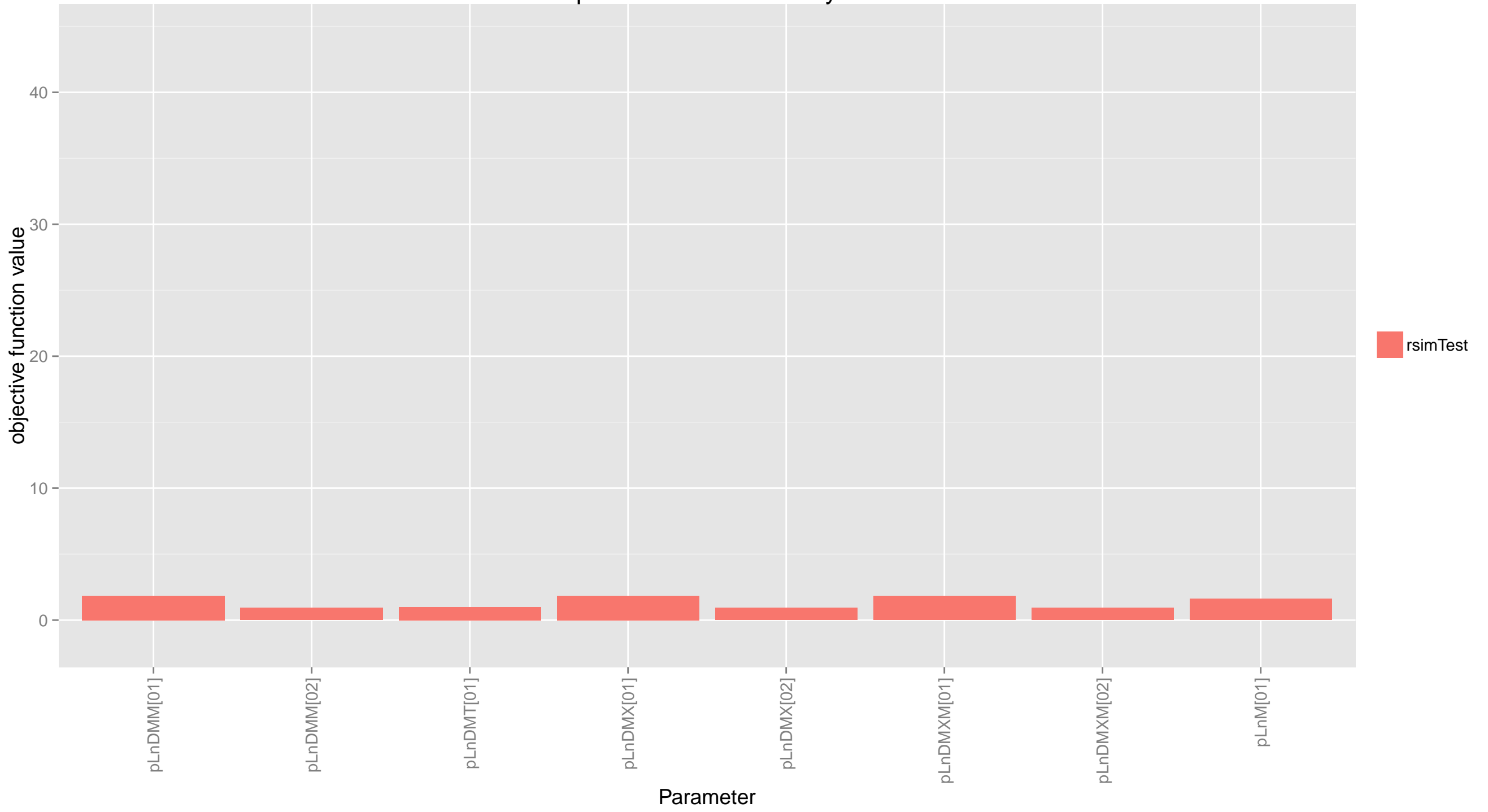
Penalties



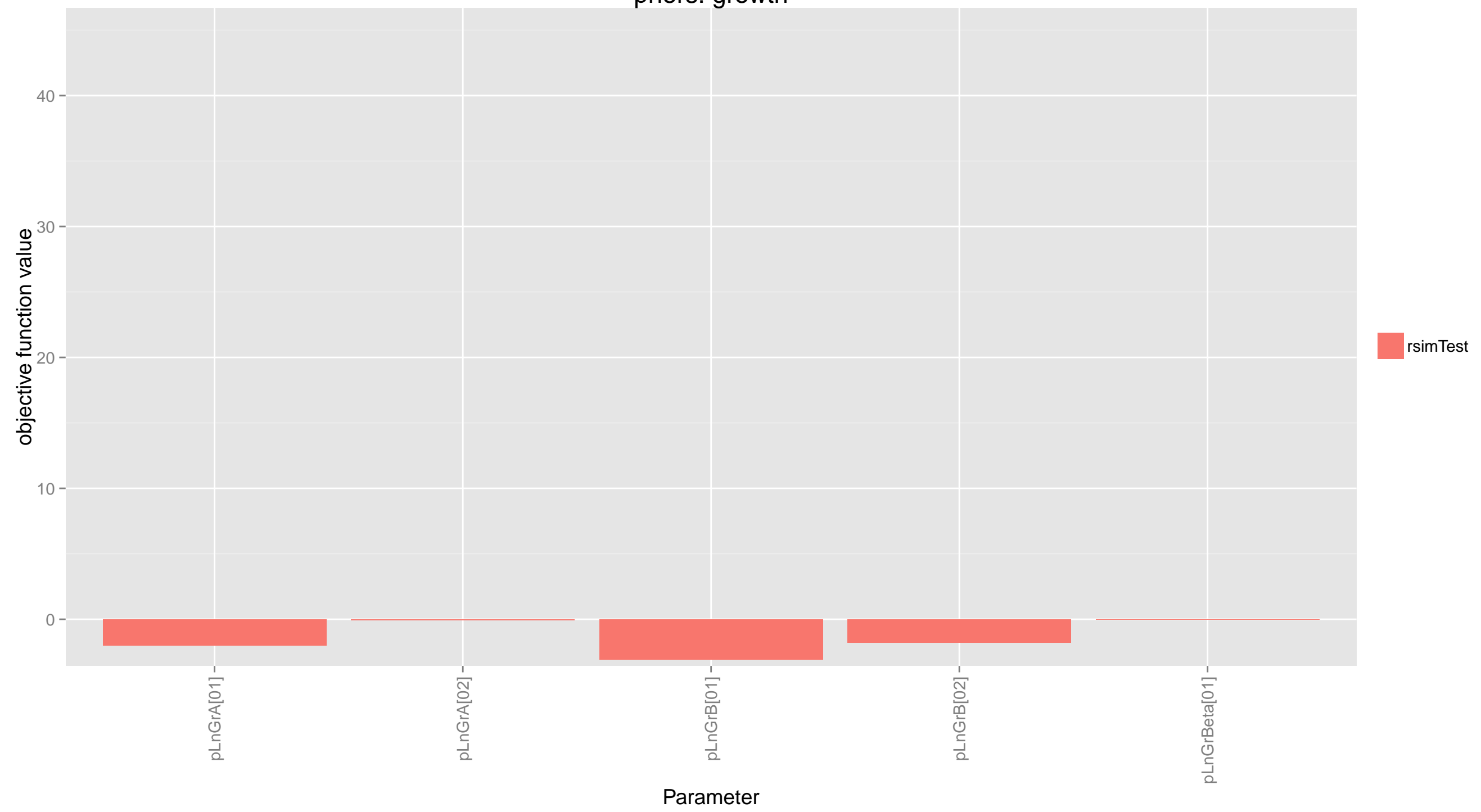
priors: recruitment



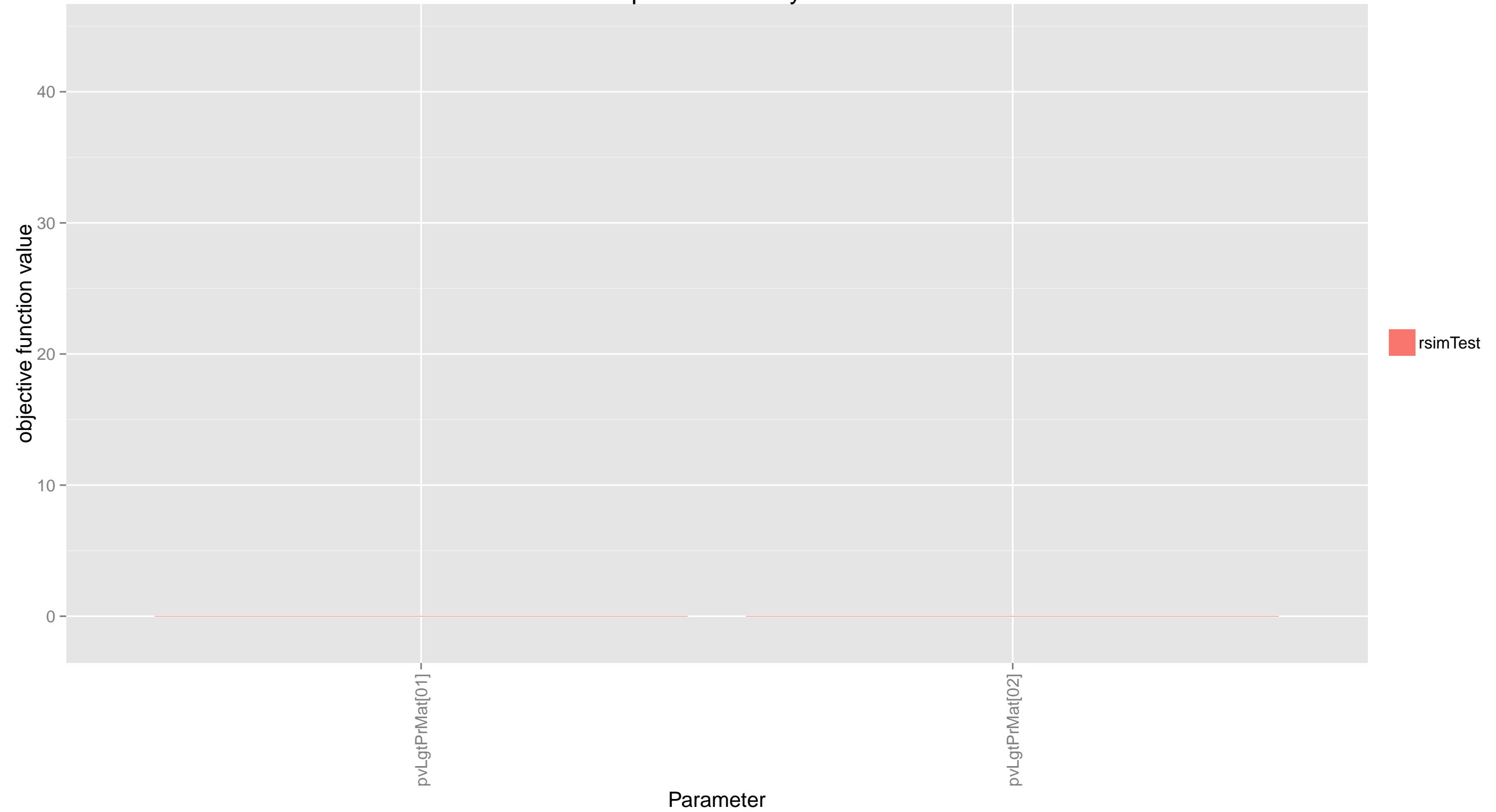
priors: natural mortality



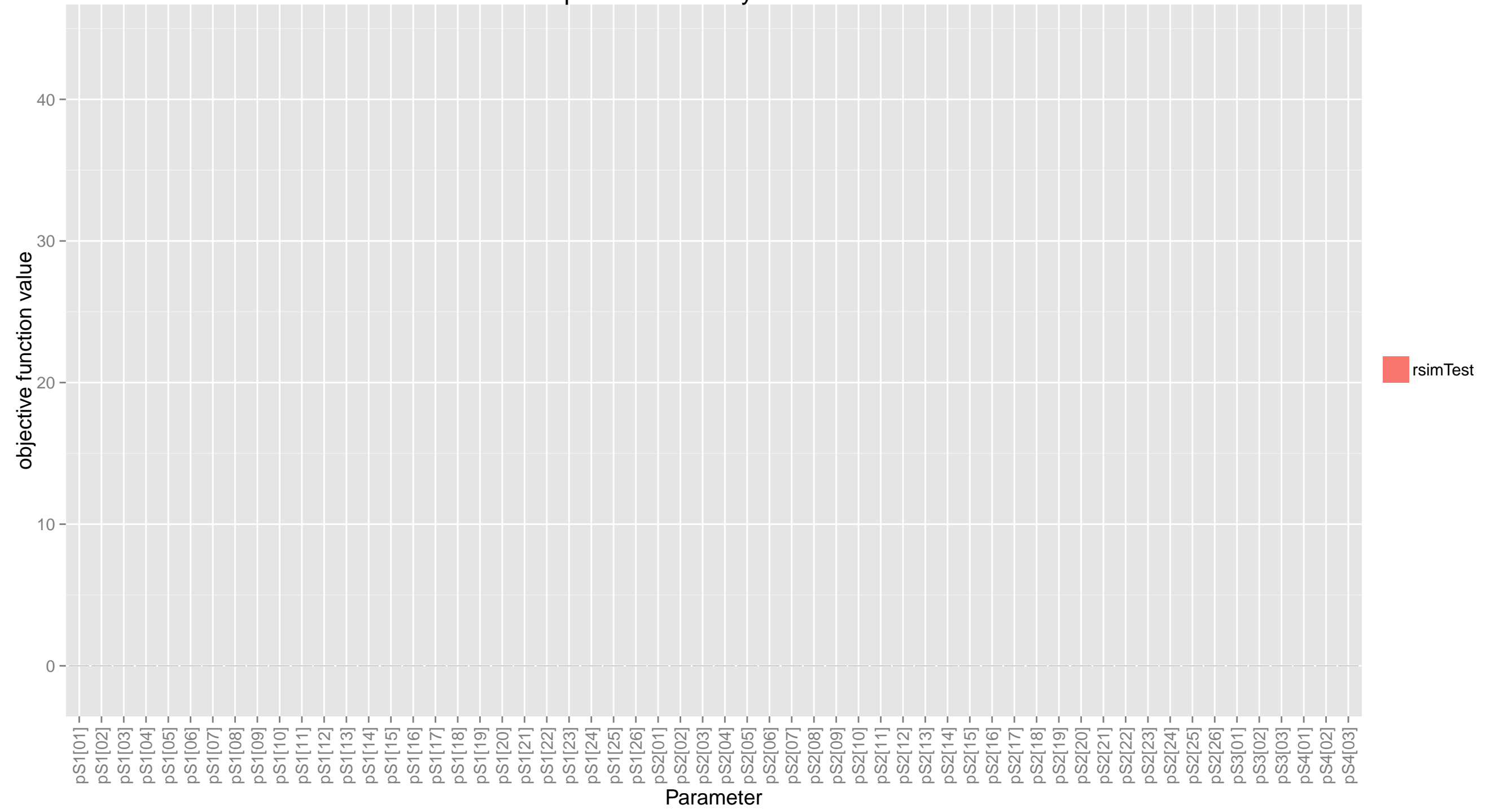
priors: growth



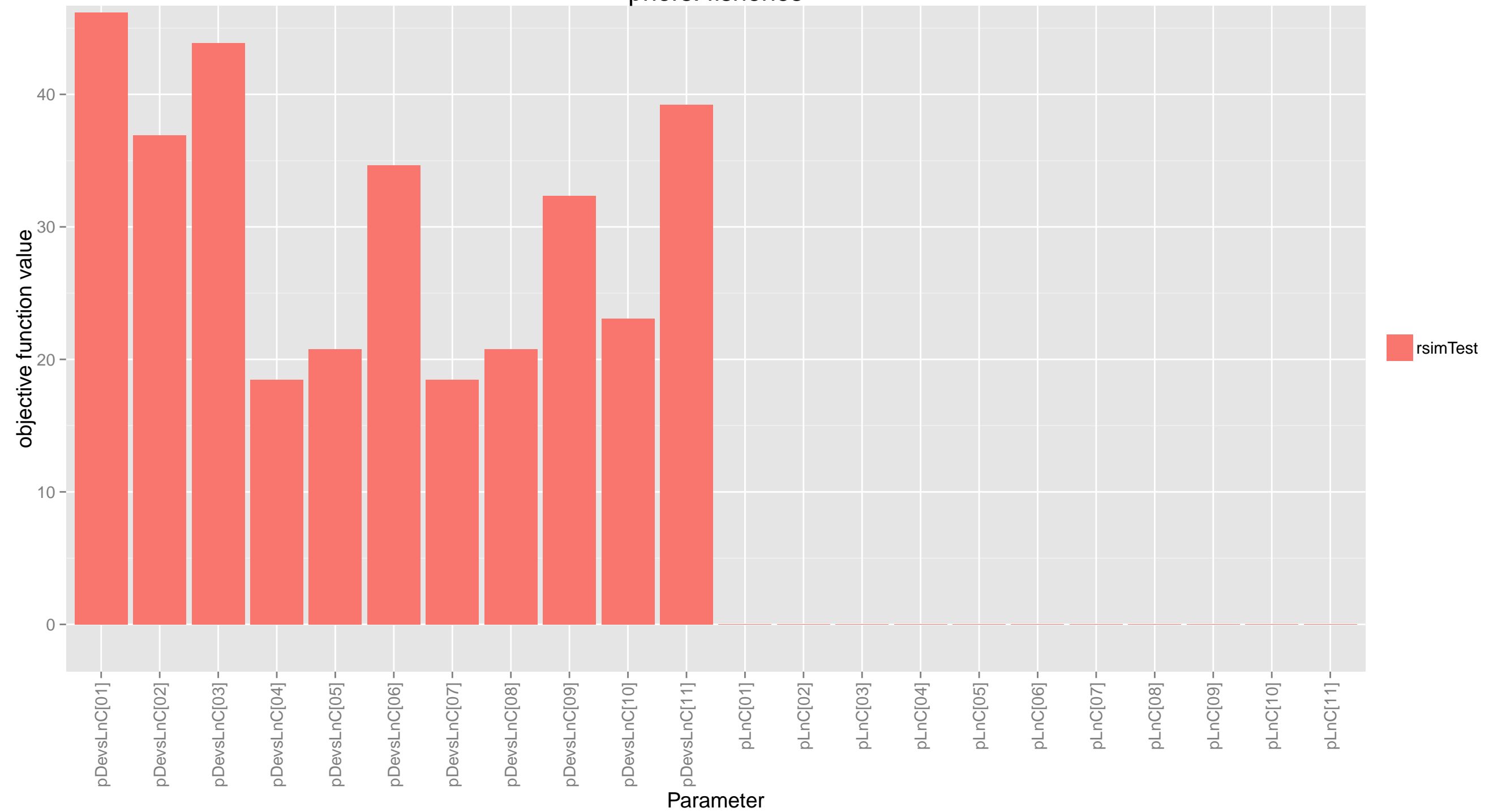
priors: maturity



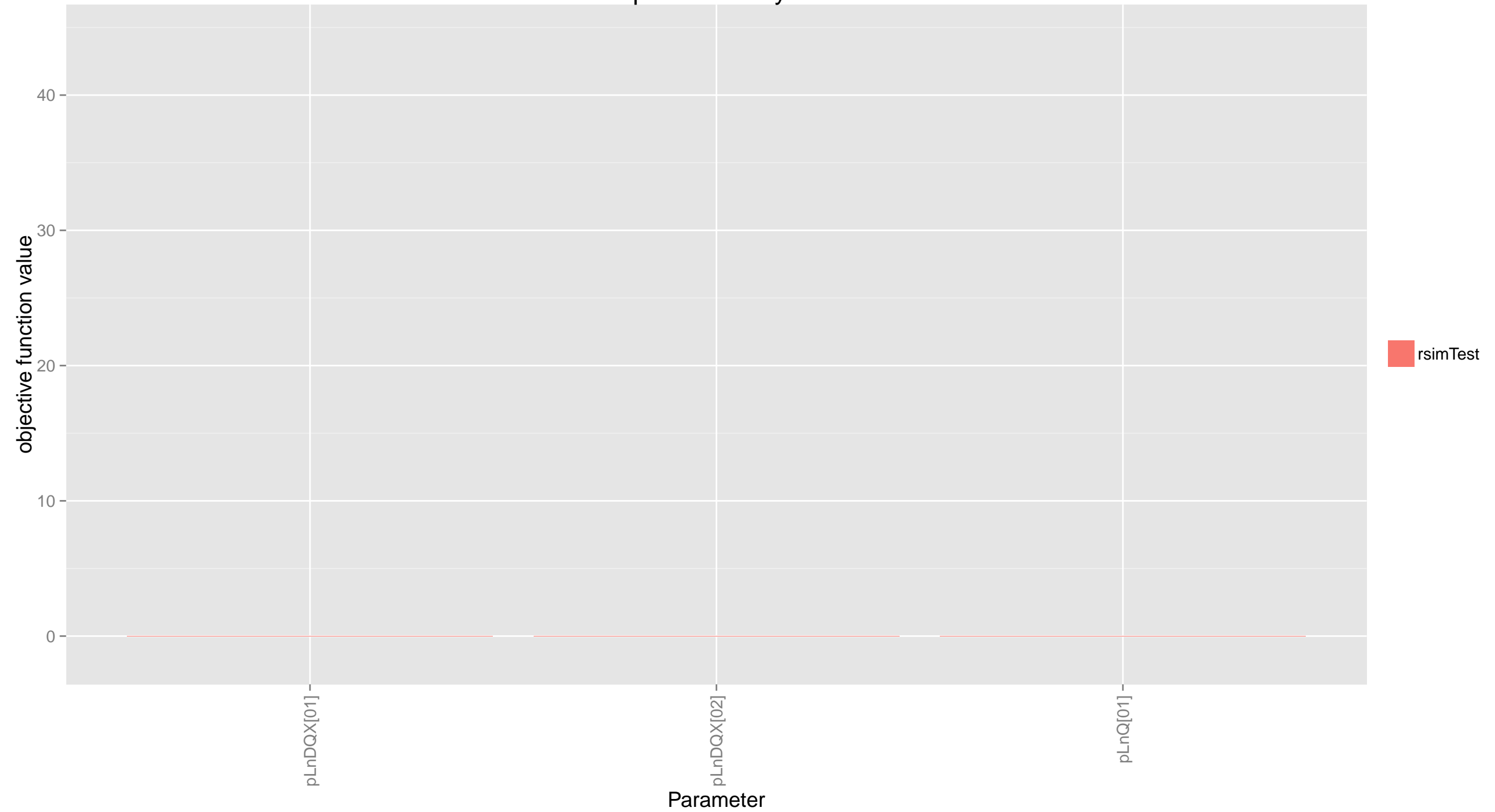
priors: selectivity functions



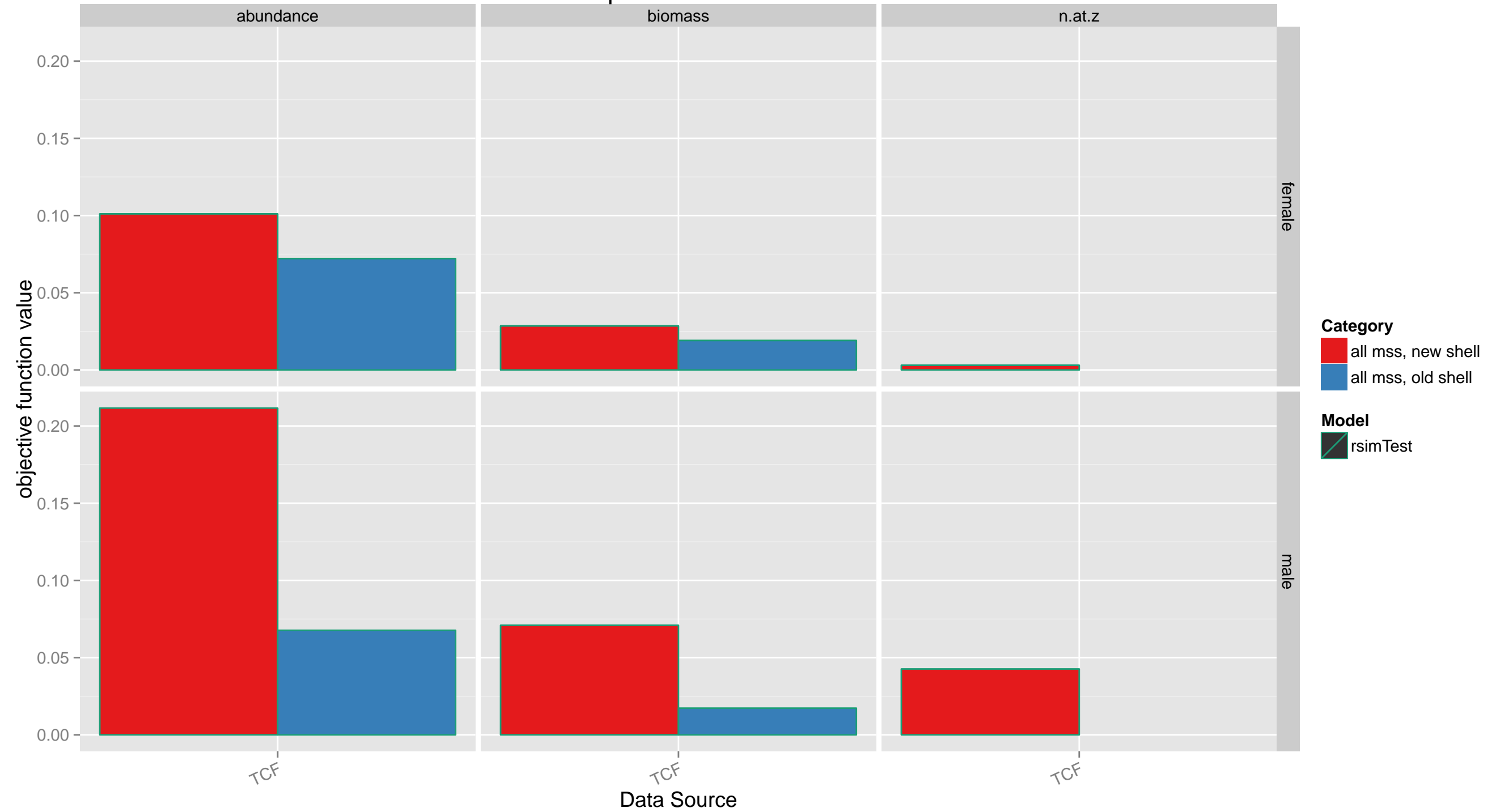
priors: fisheries



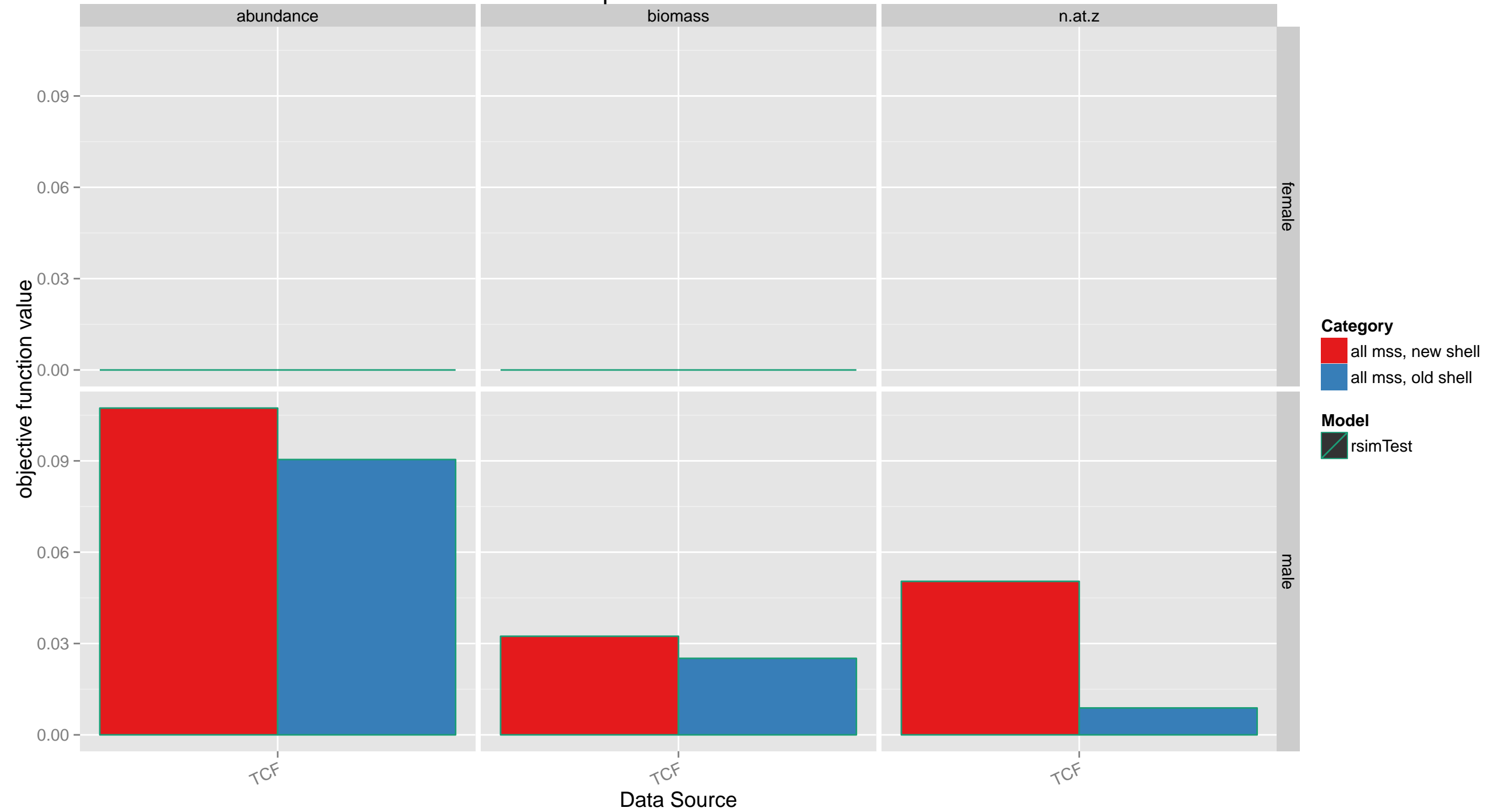
priors: surveys

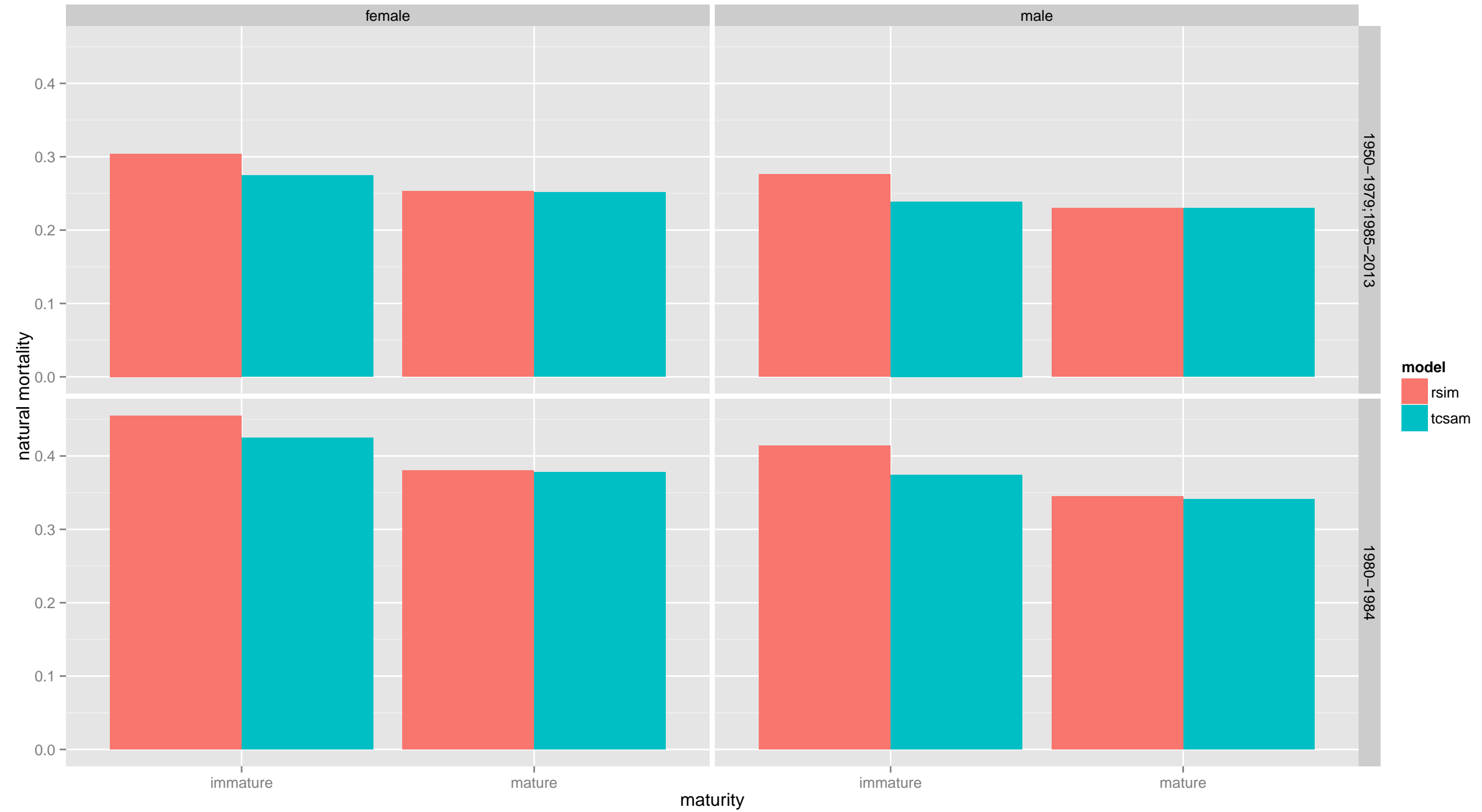


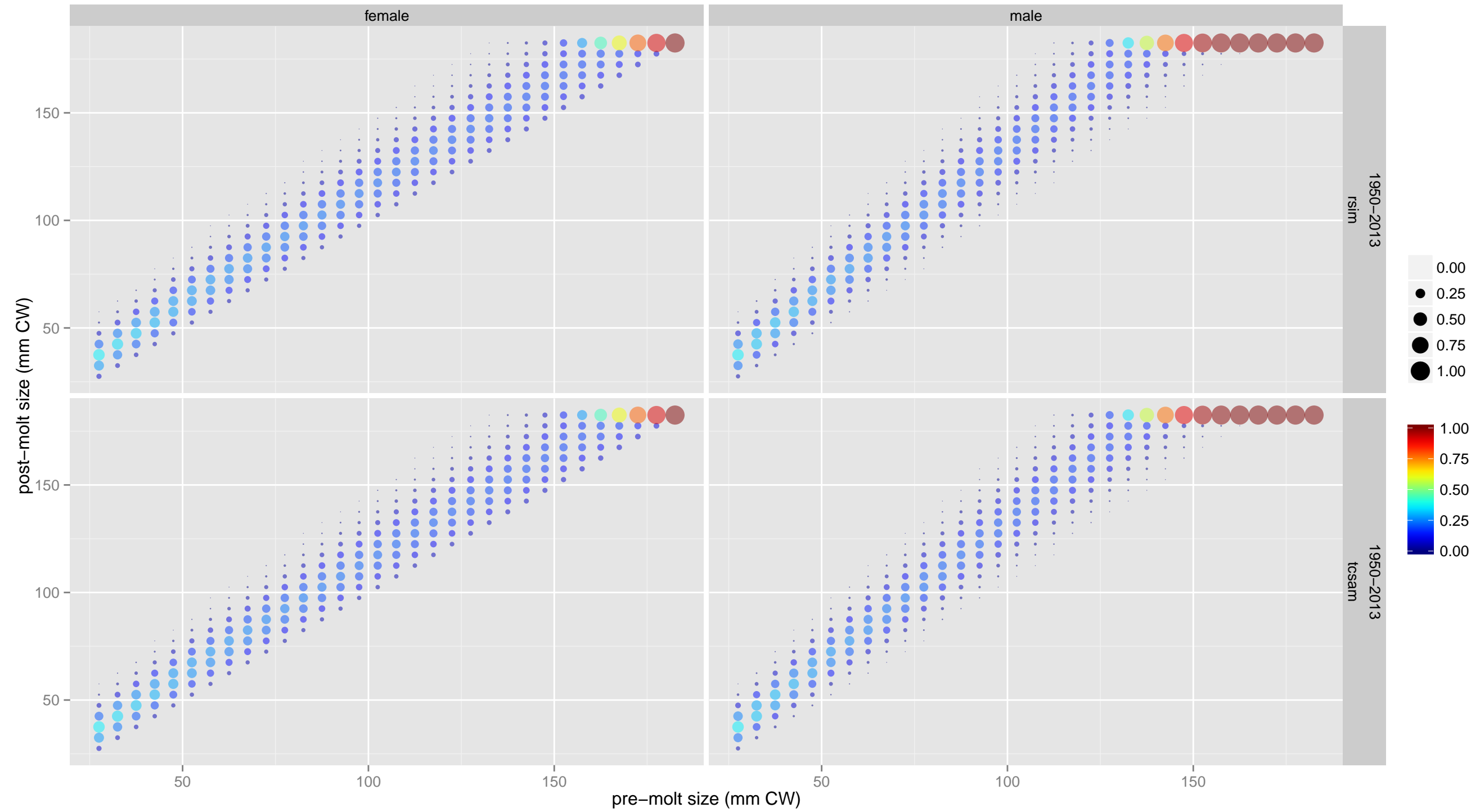
Data Components: discard catch

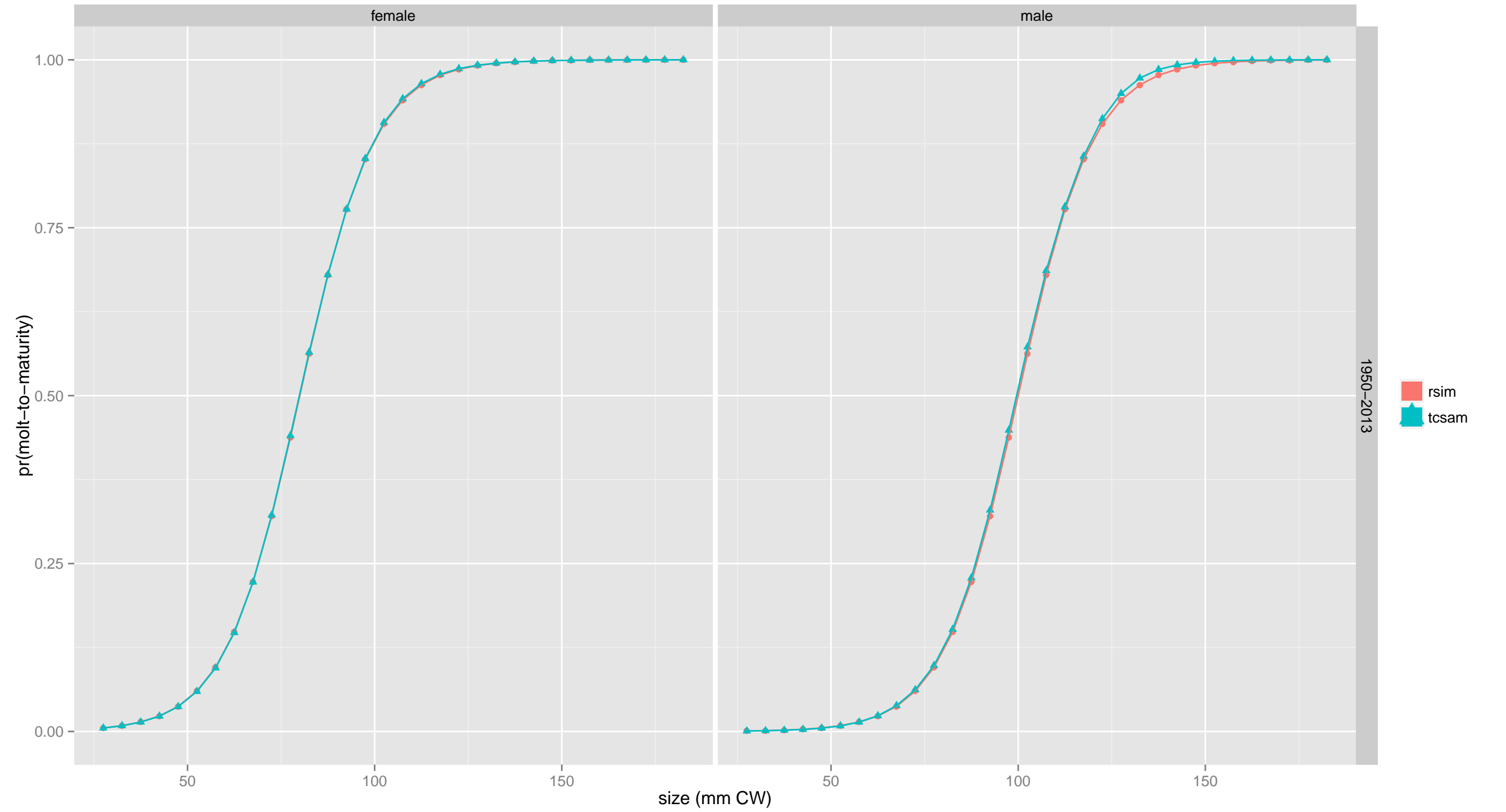


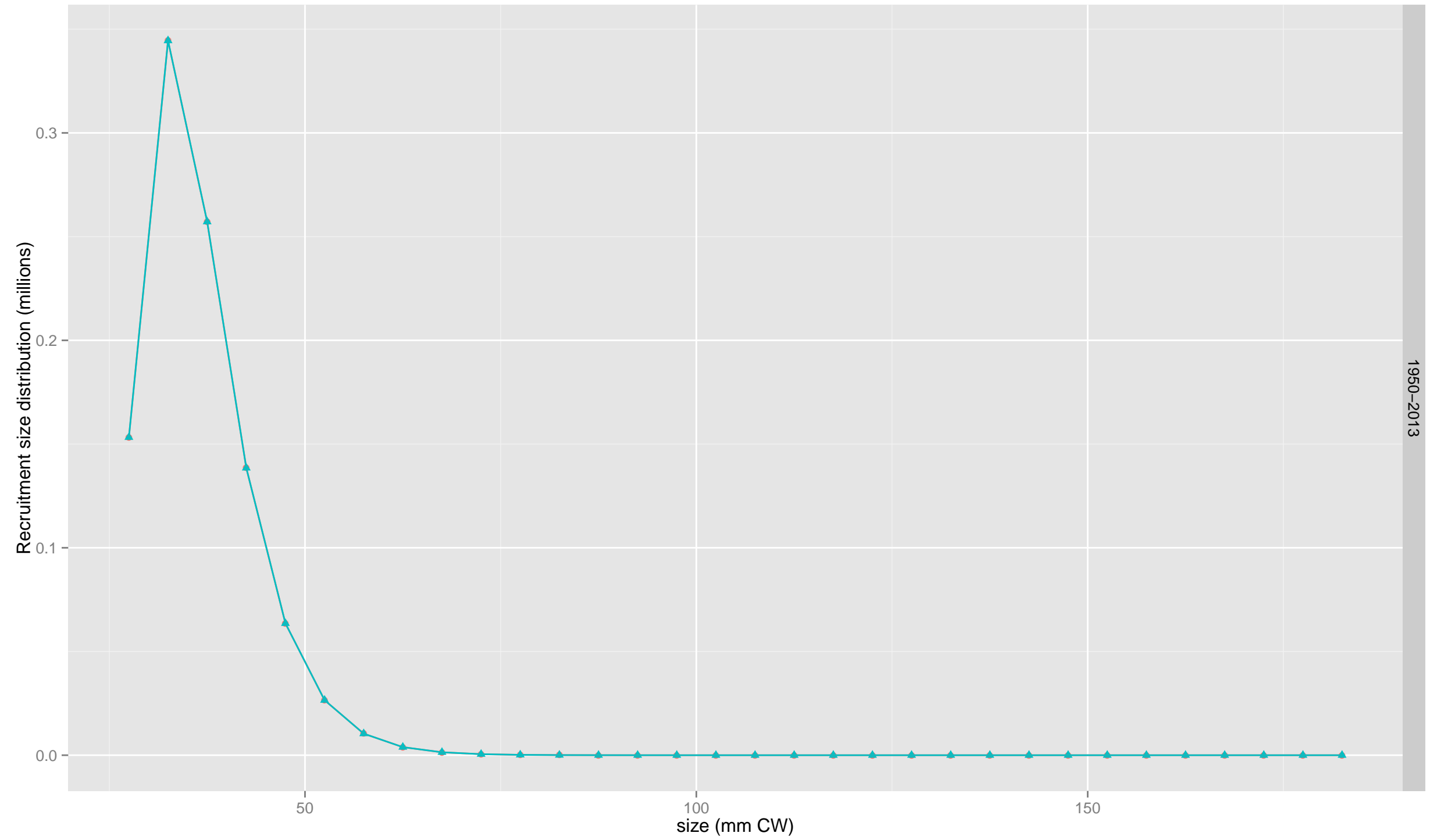
Data Components: retained catch





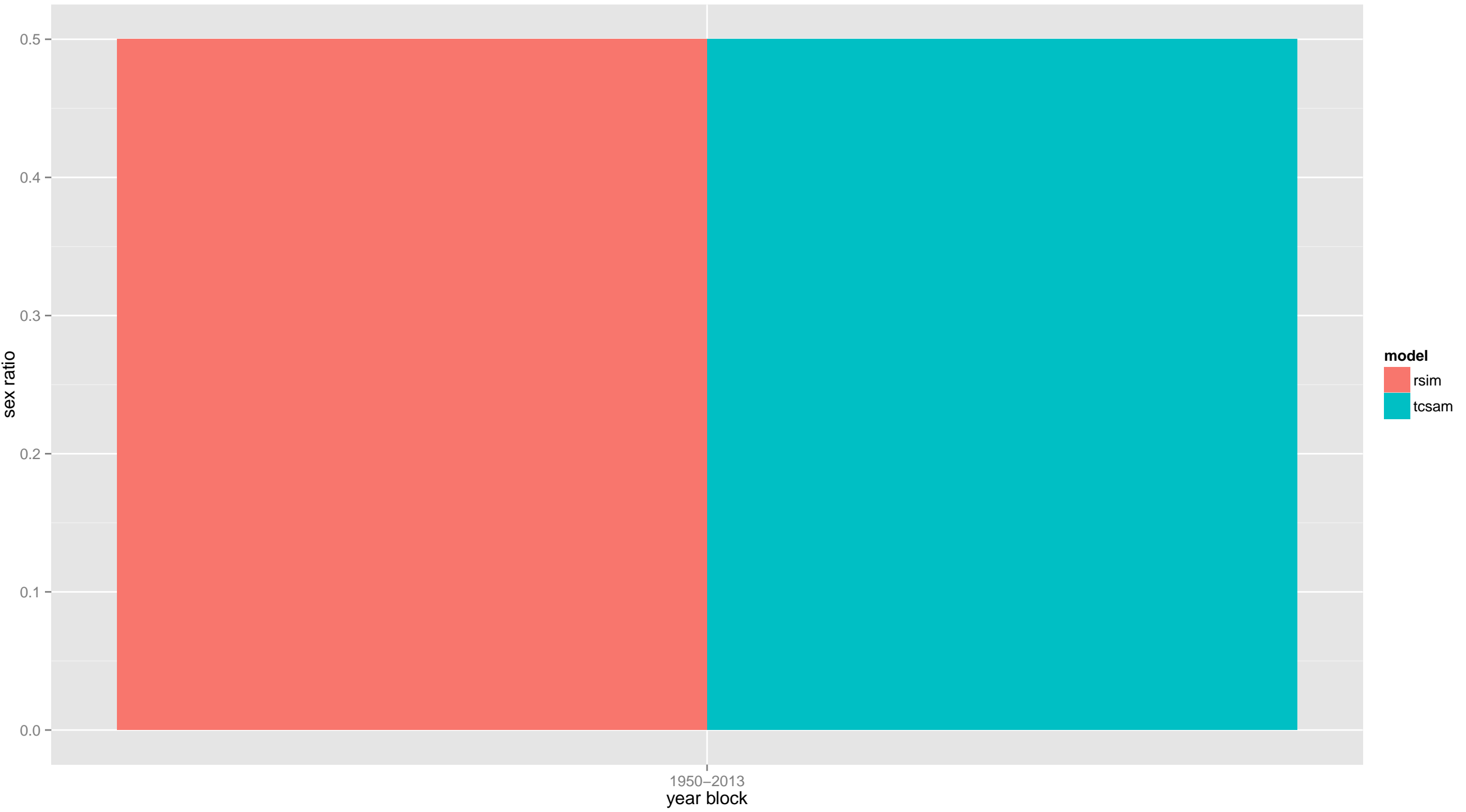




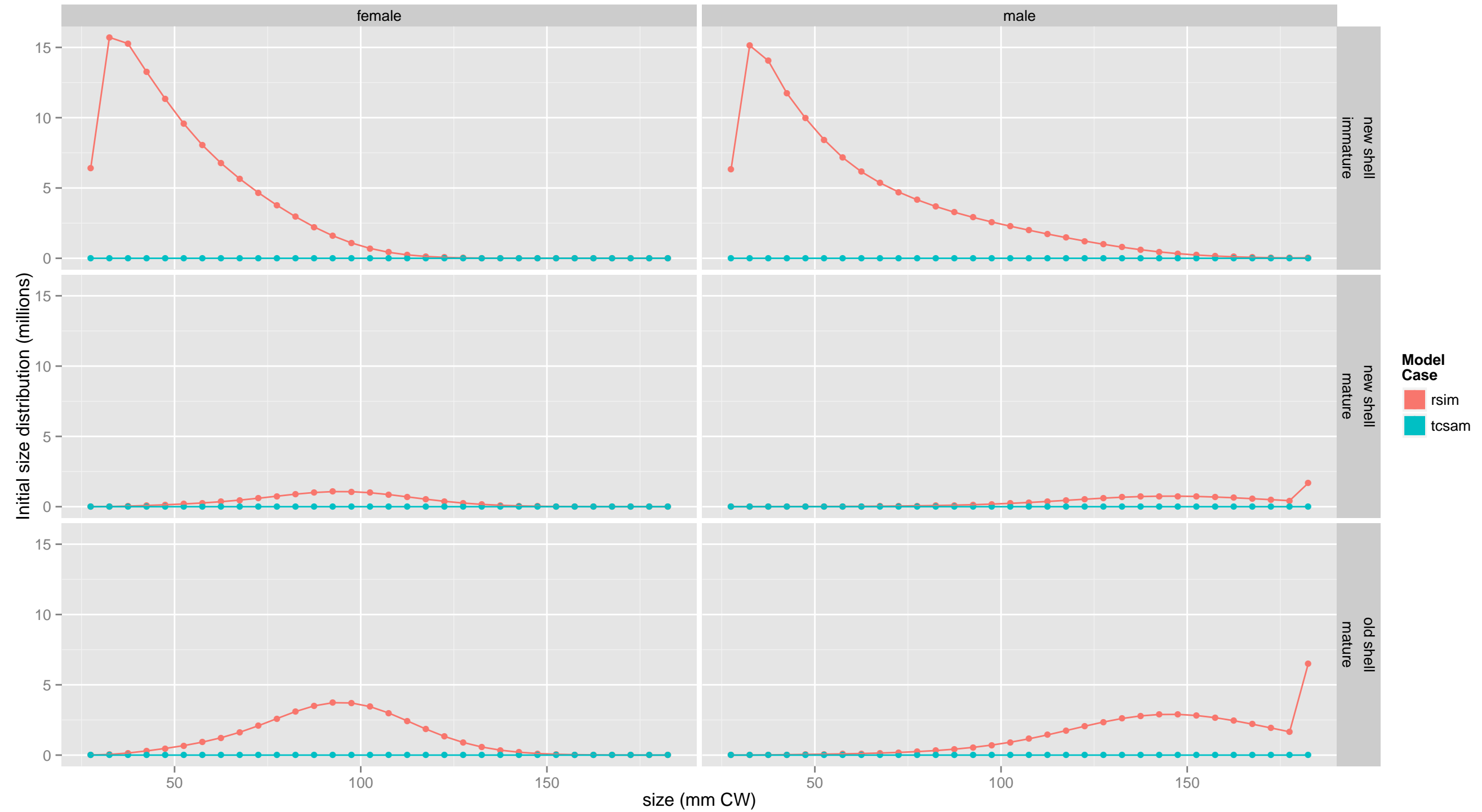


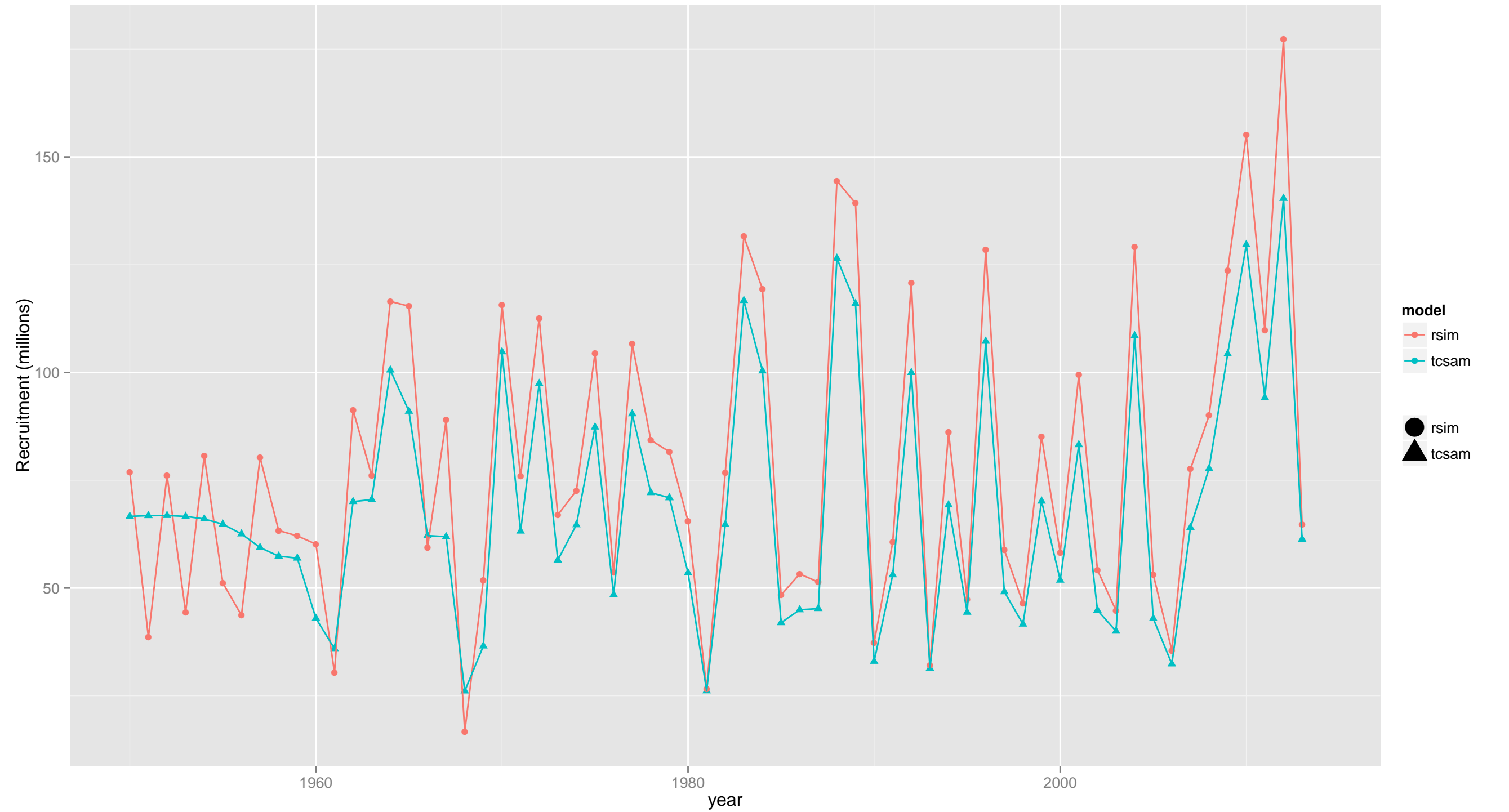
rsim
tcsam

1950-2013

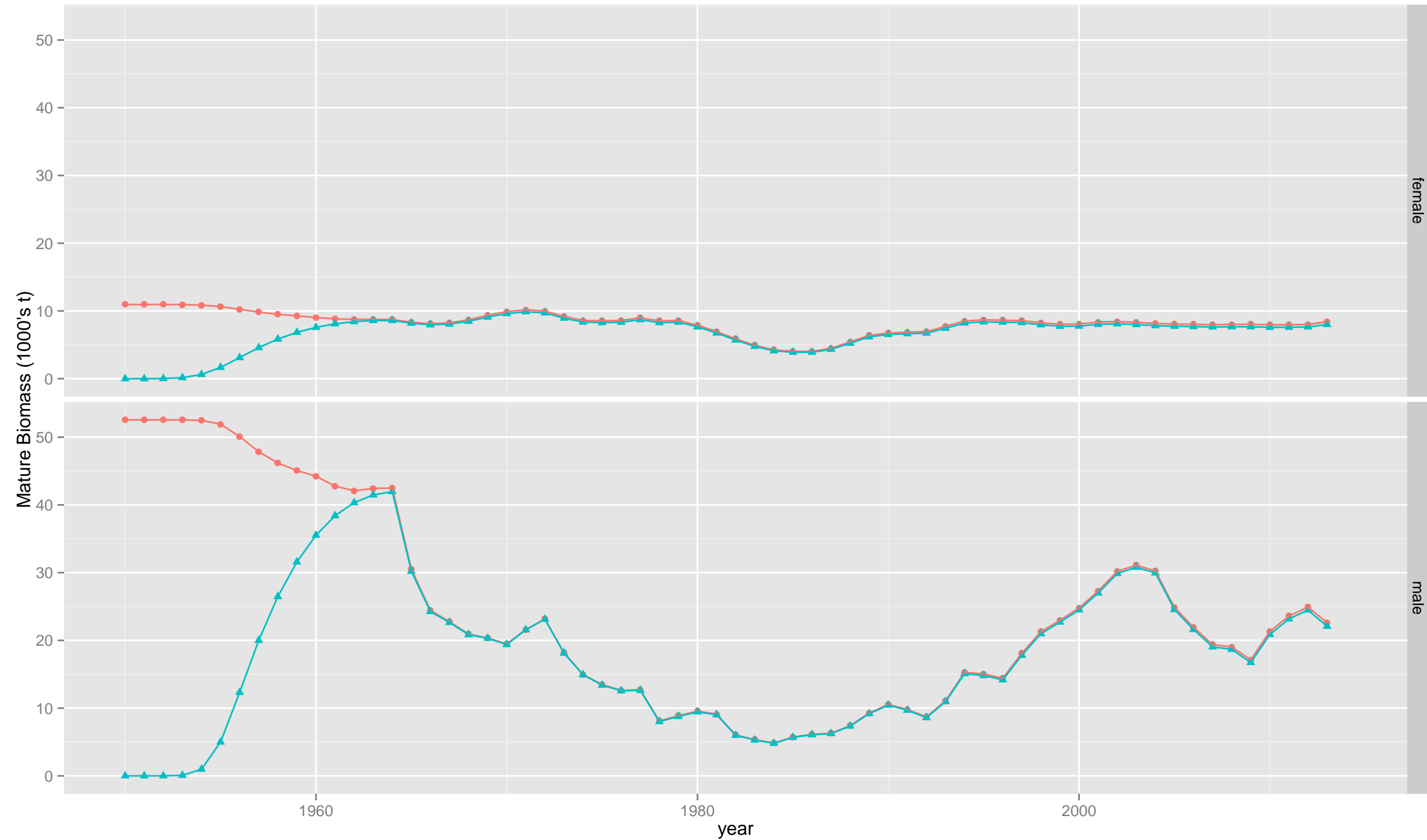


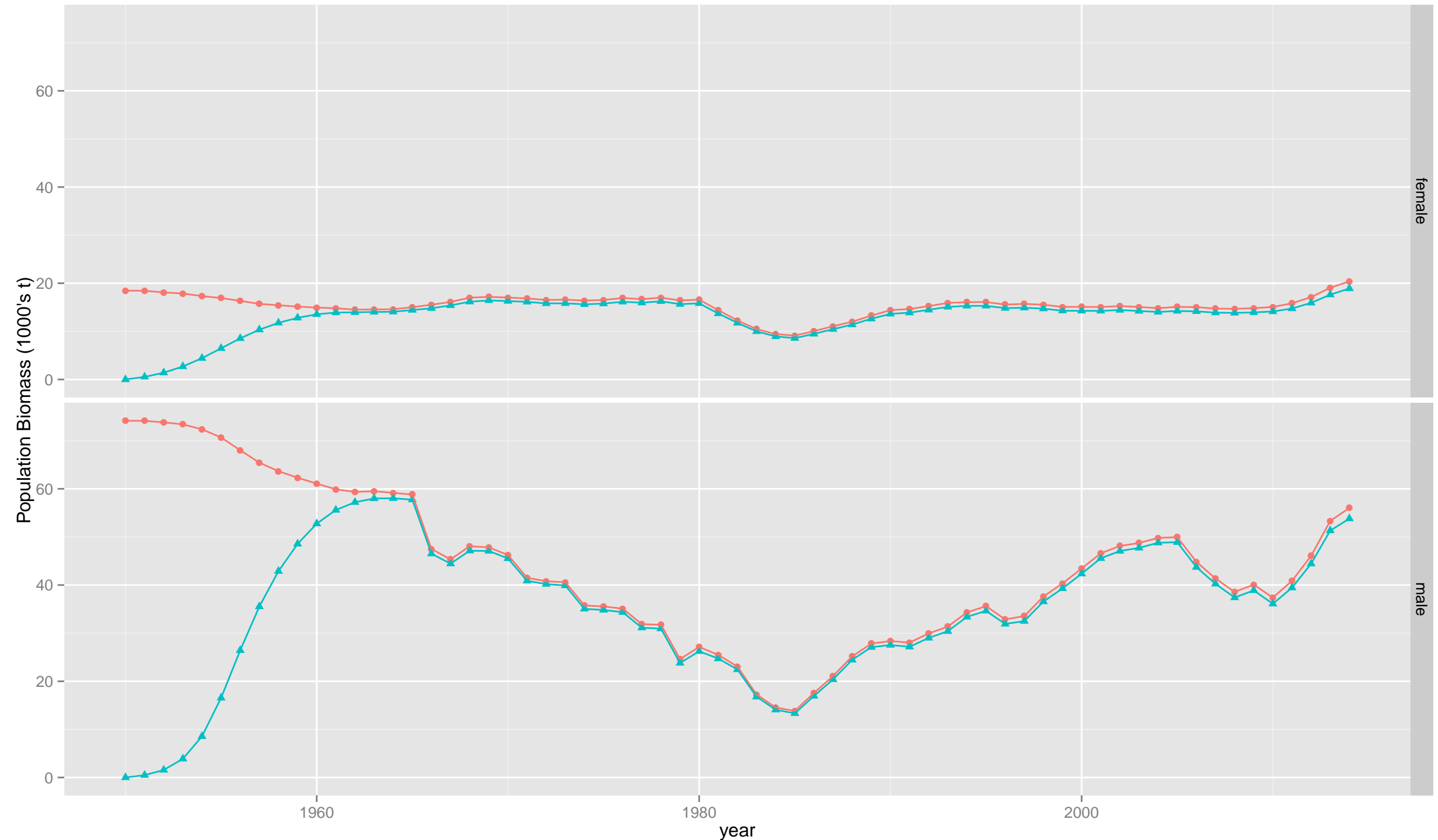
model
rsim
tcsam







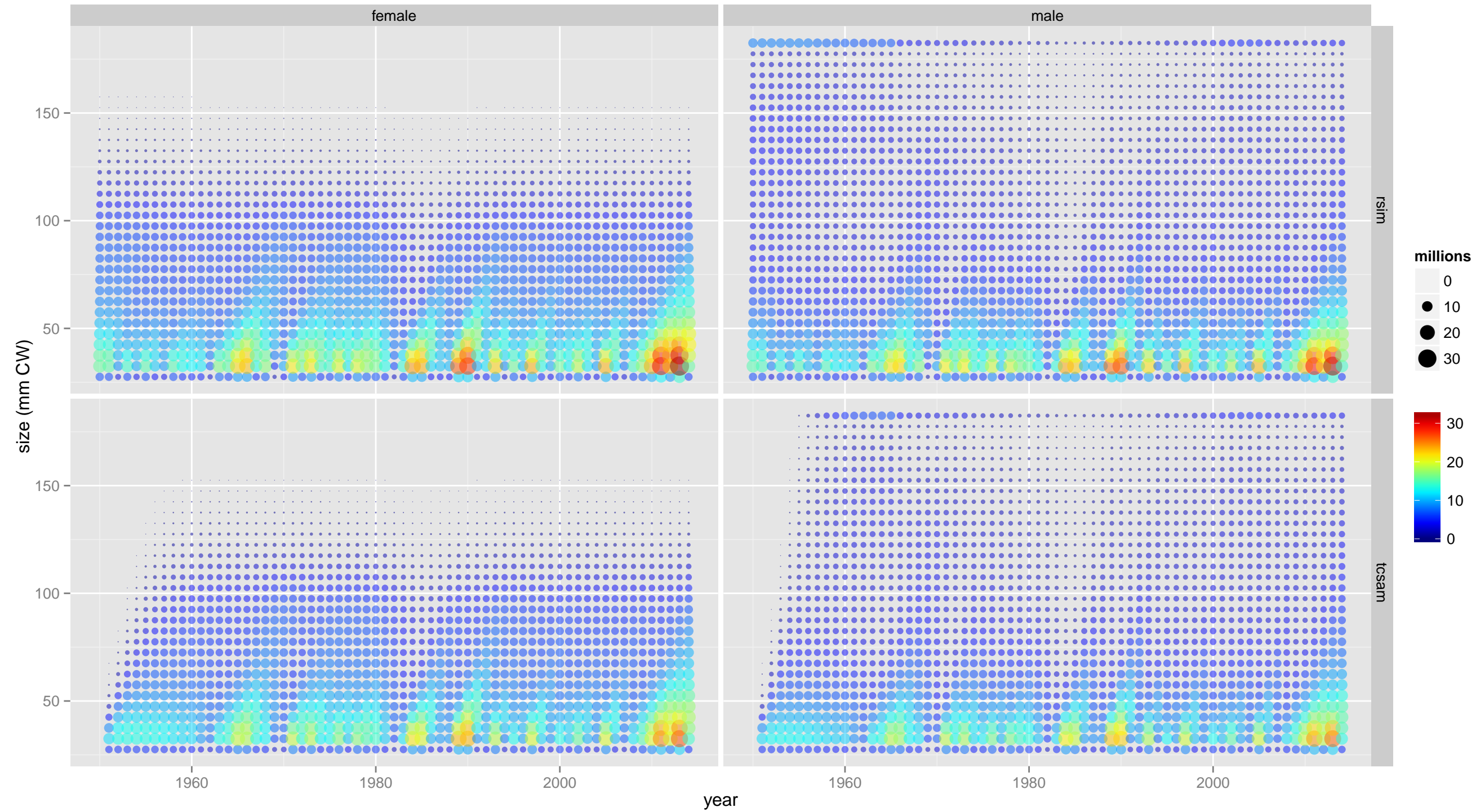


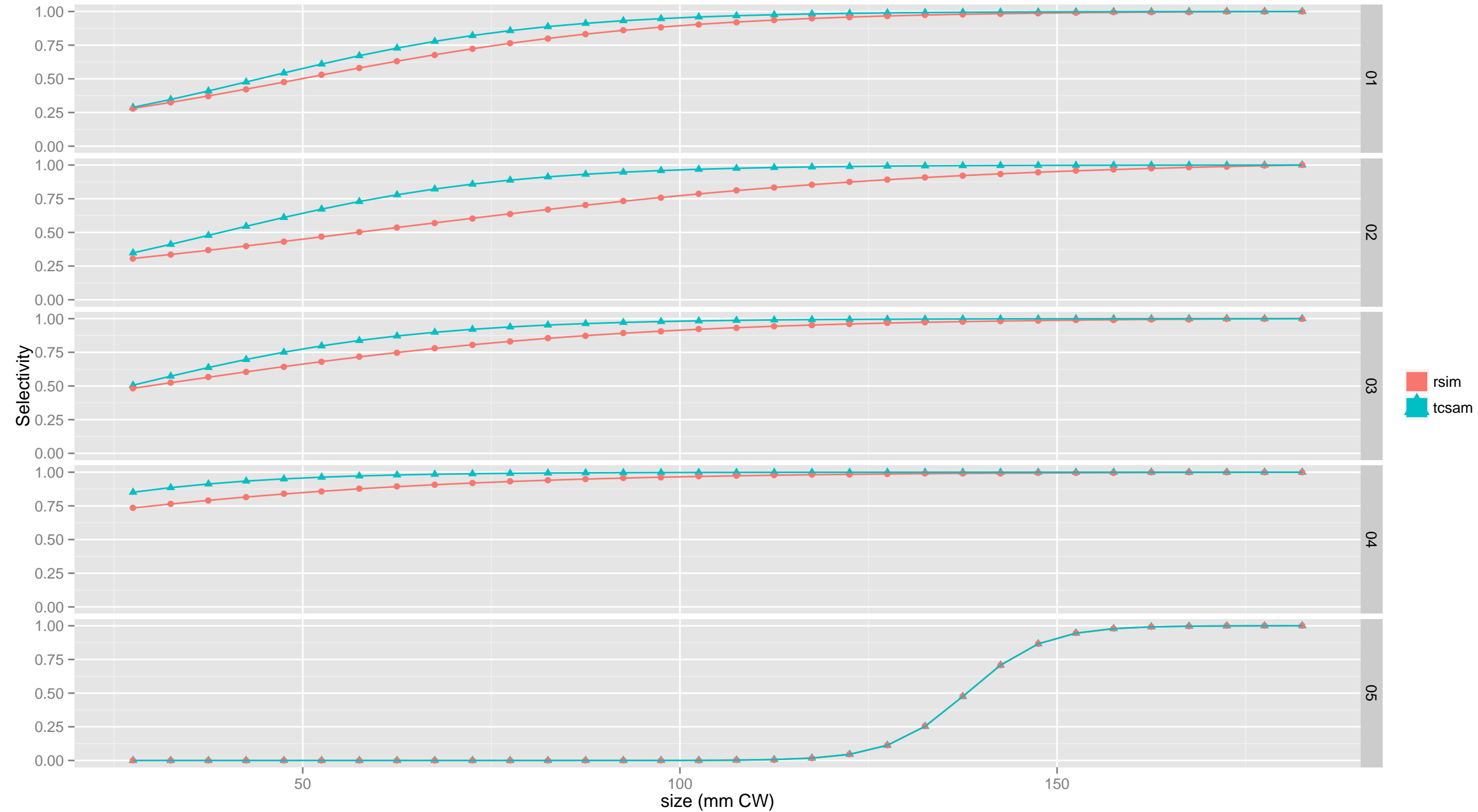


rsim
tcsam

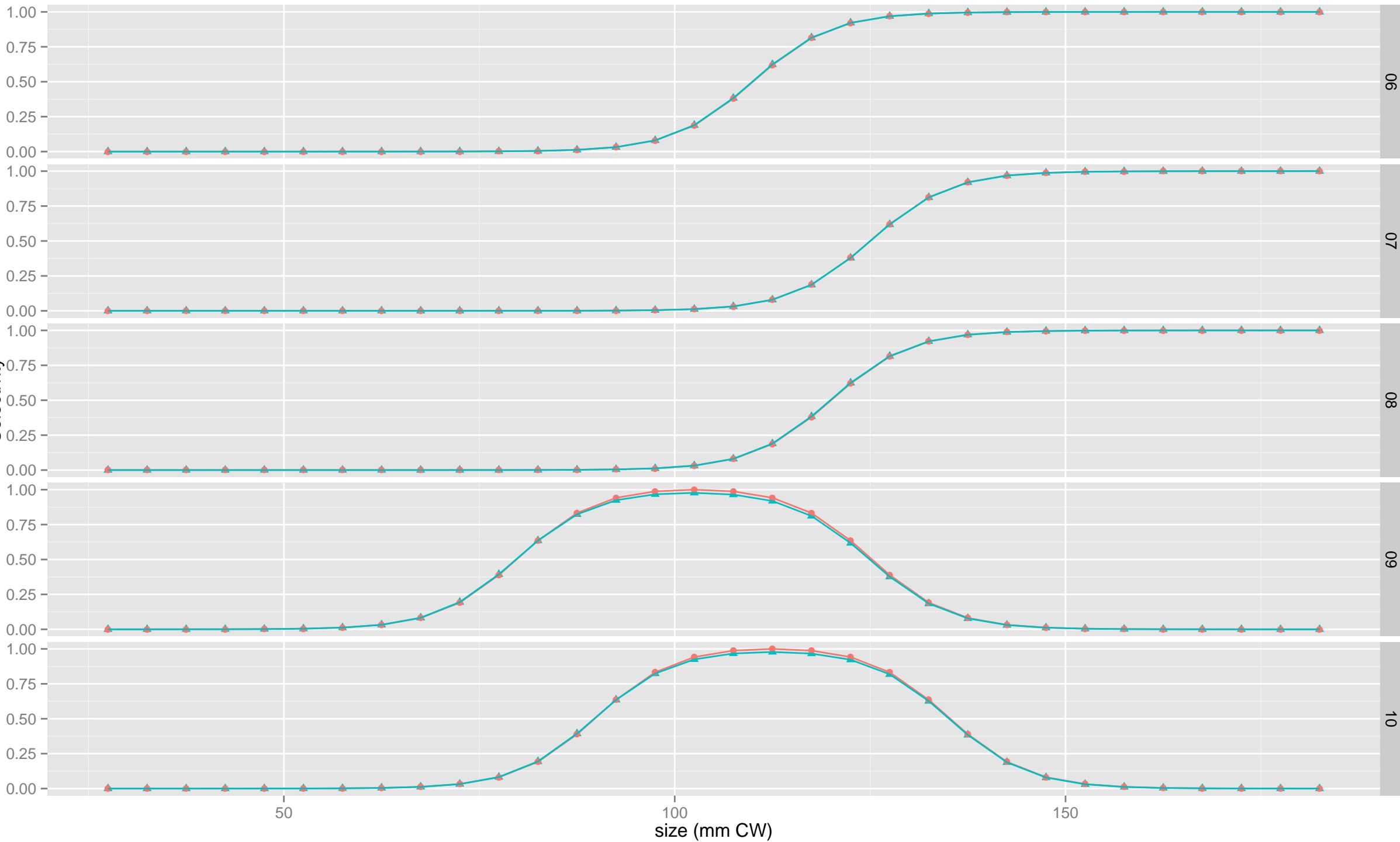


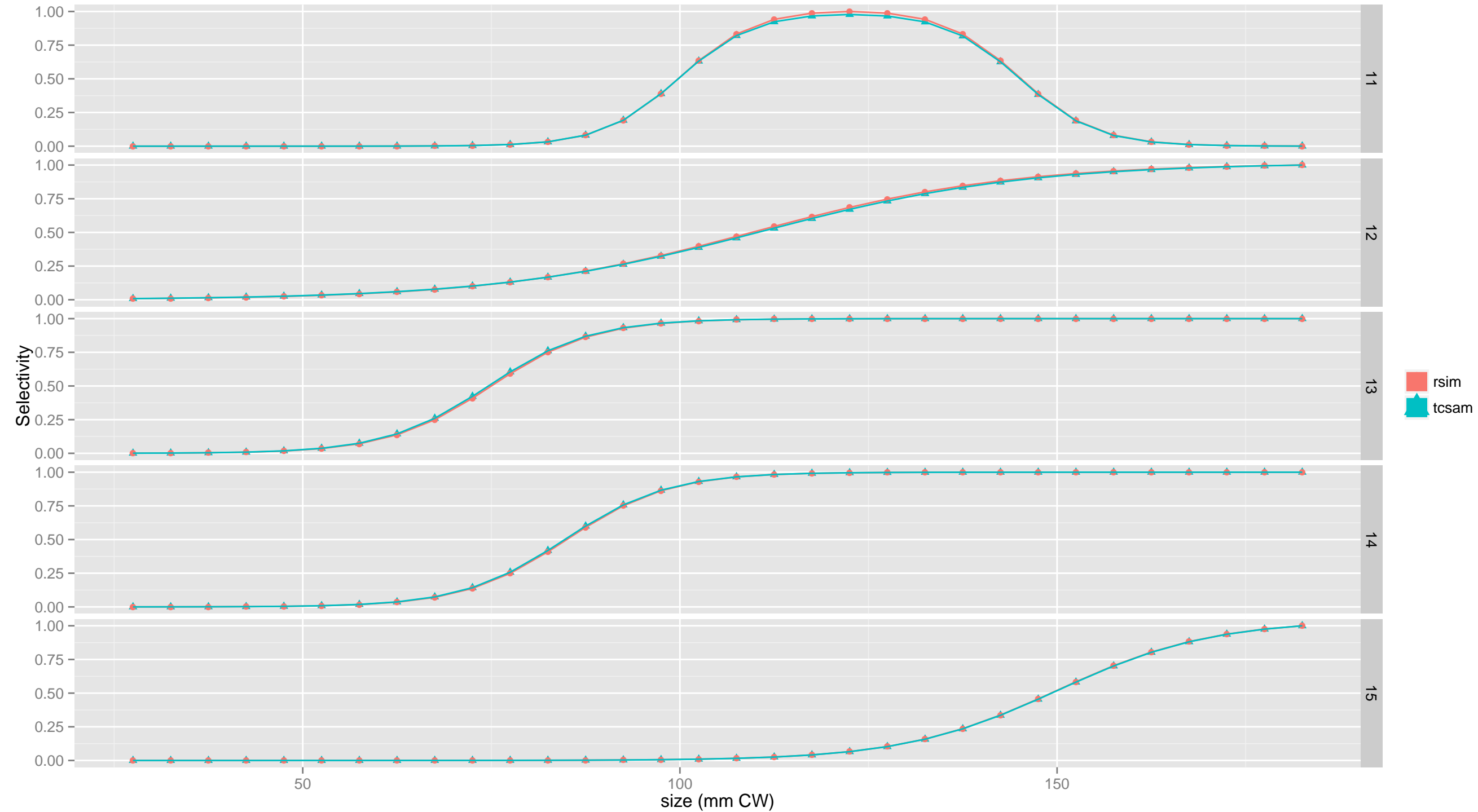
rsim
tcsam

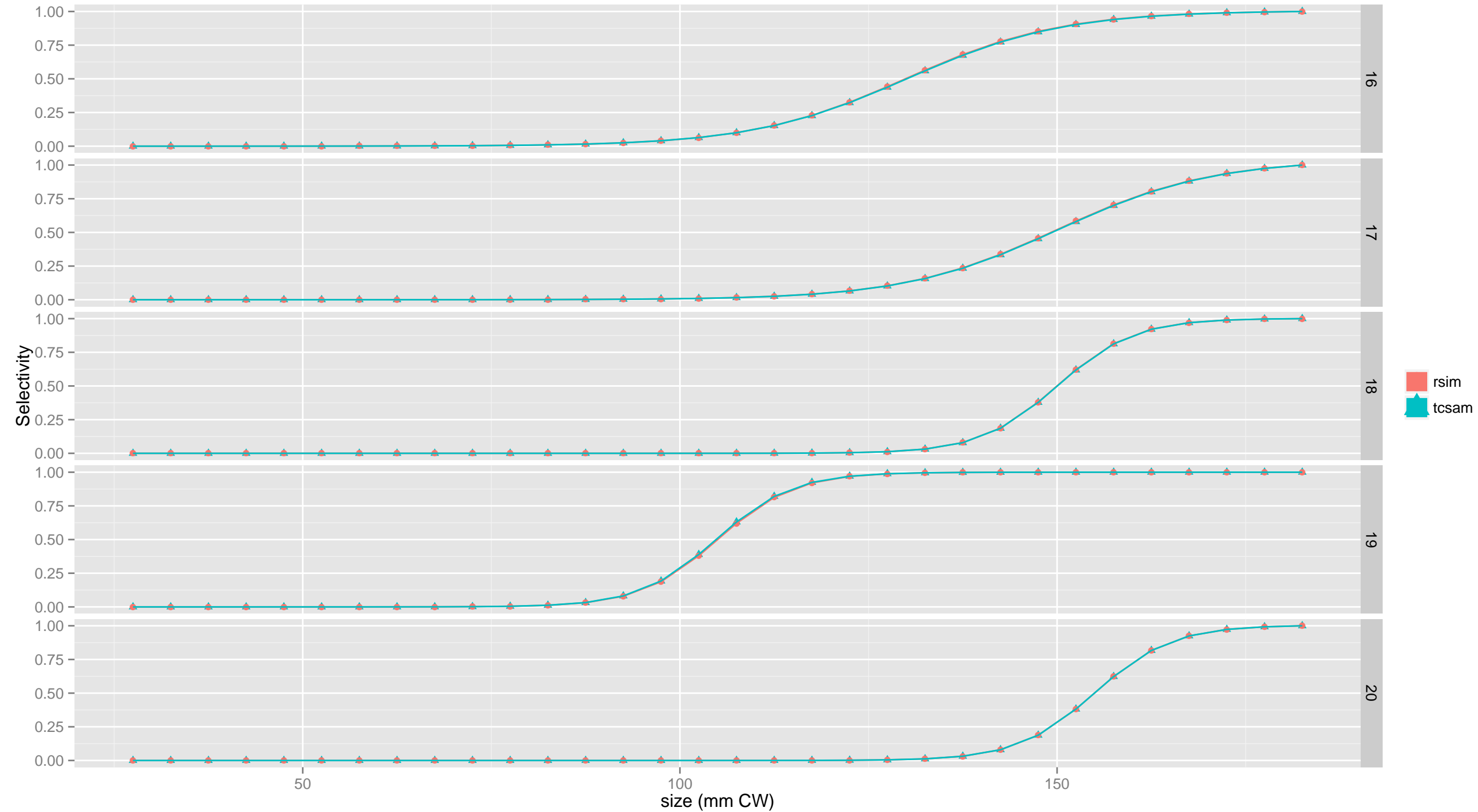


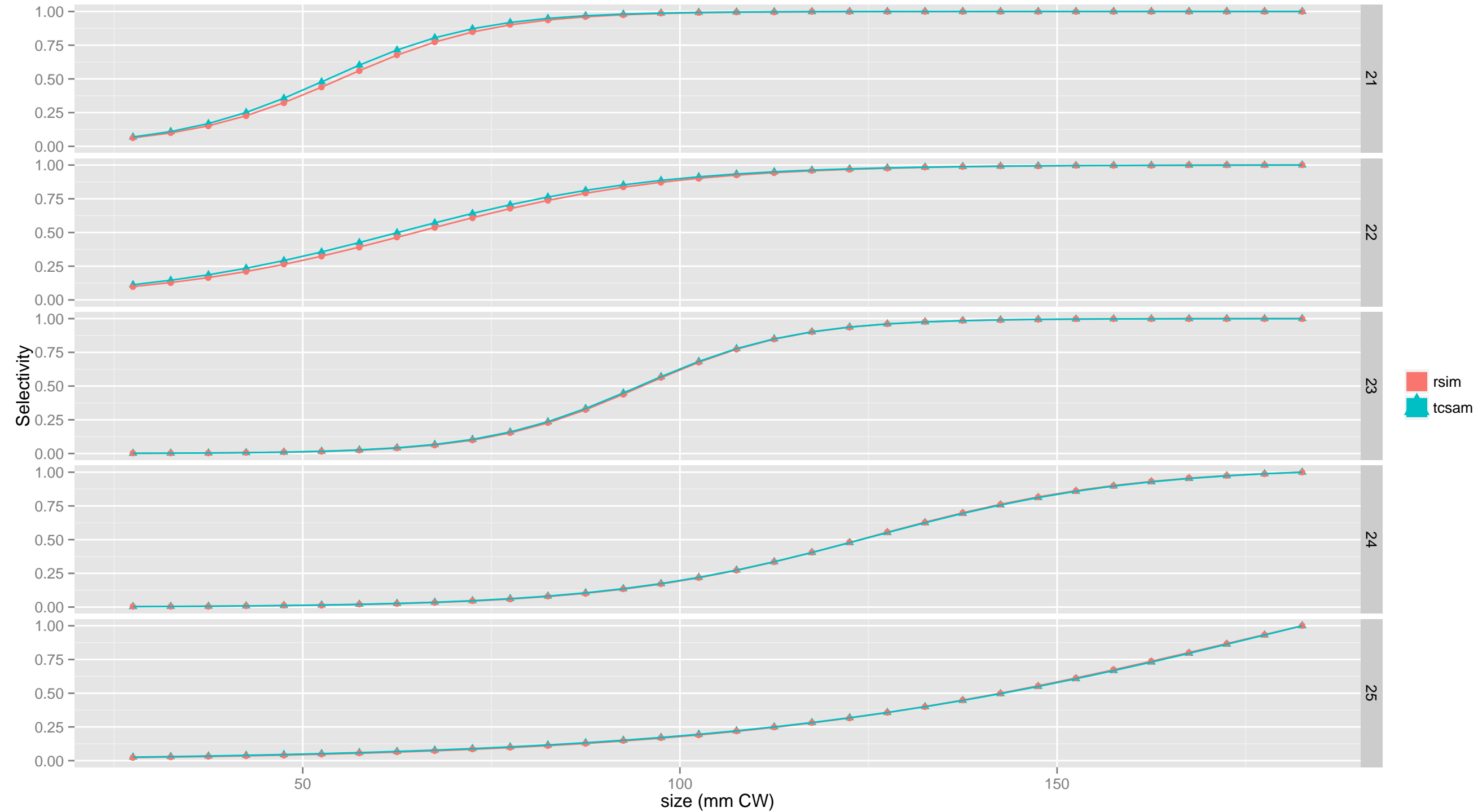


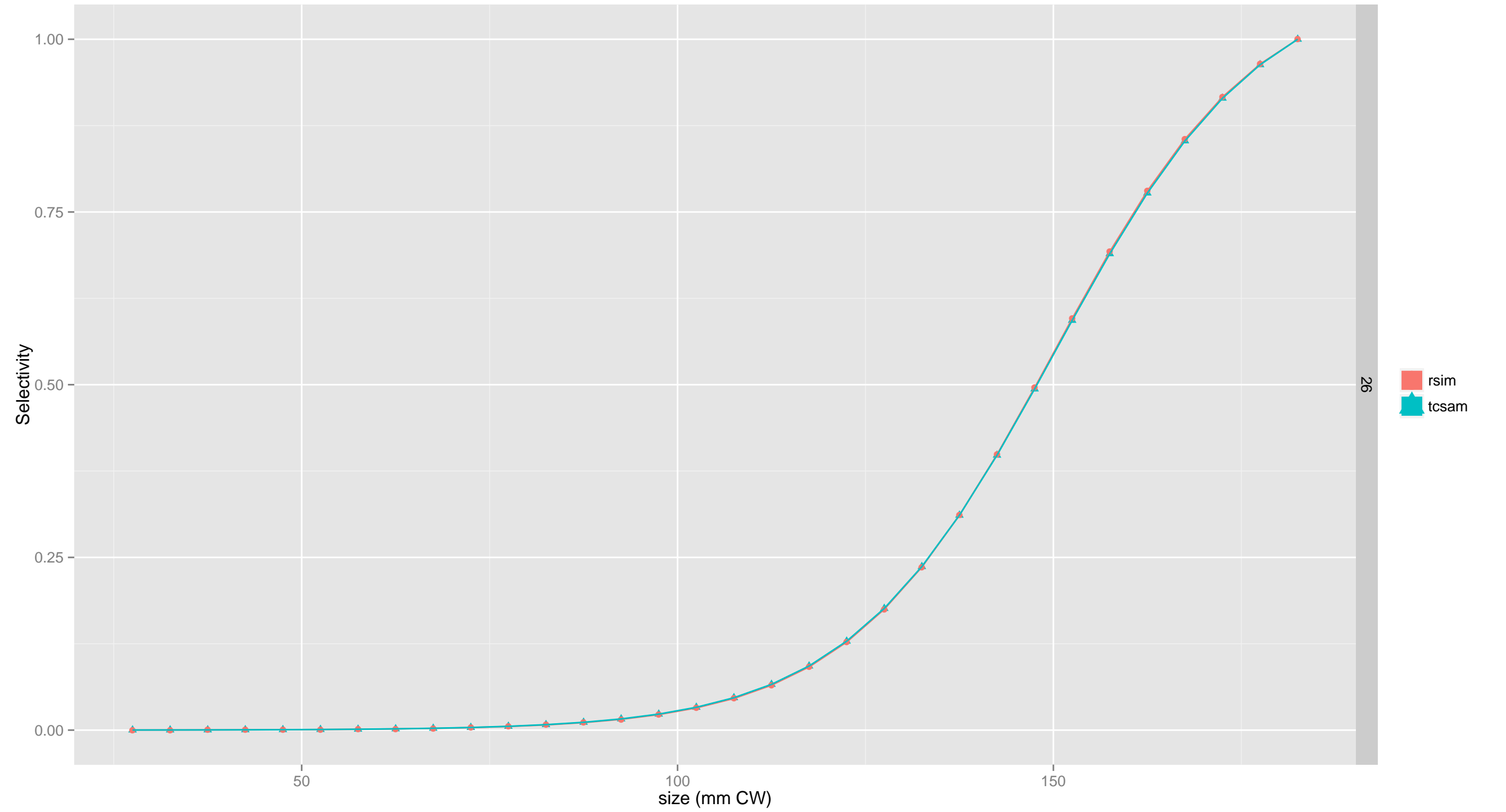
Selectivity



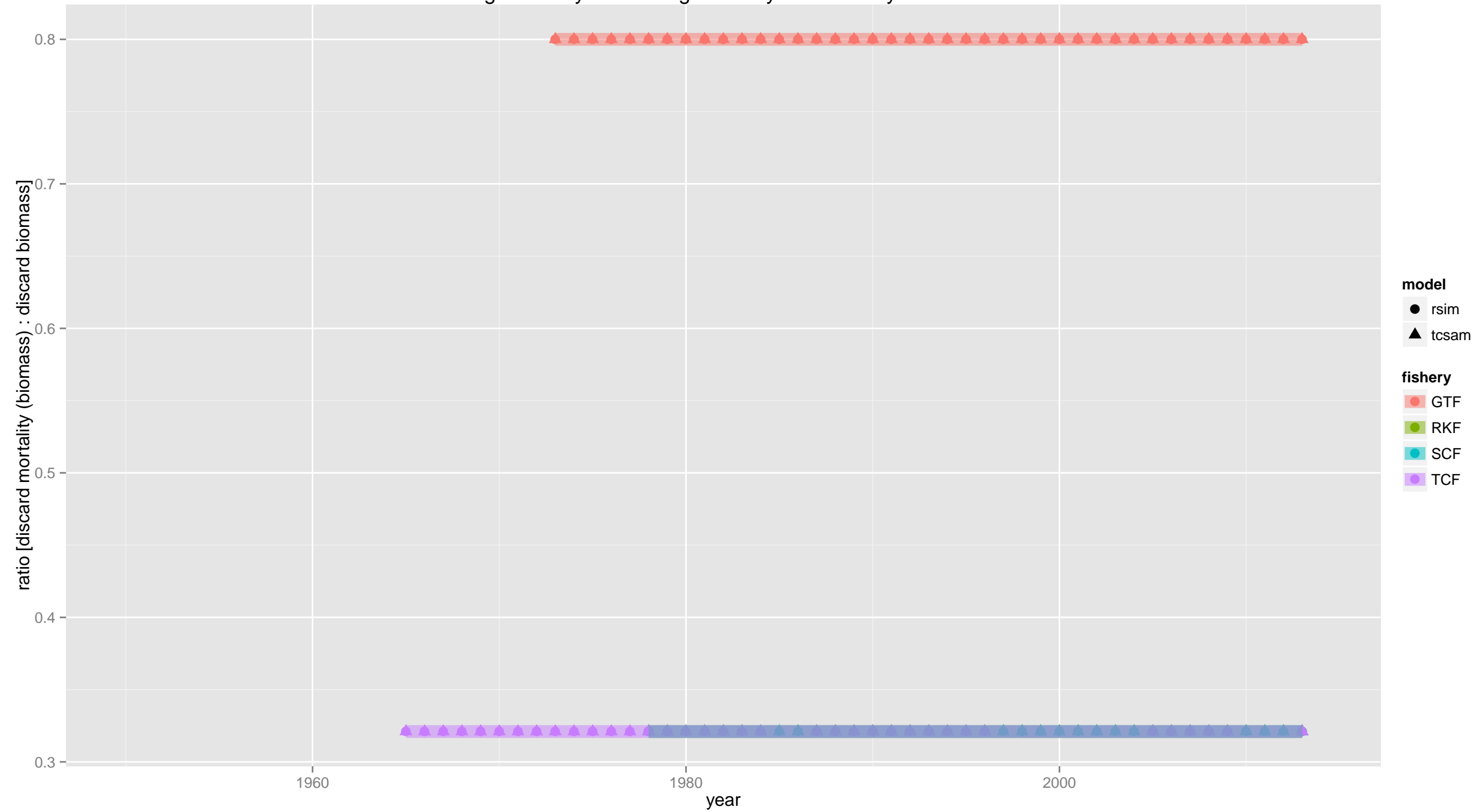








gmacs-style Handling Mortality Consistency Check



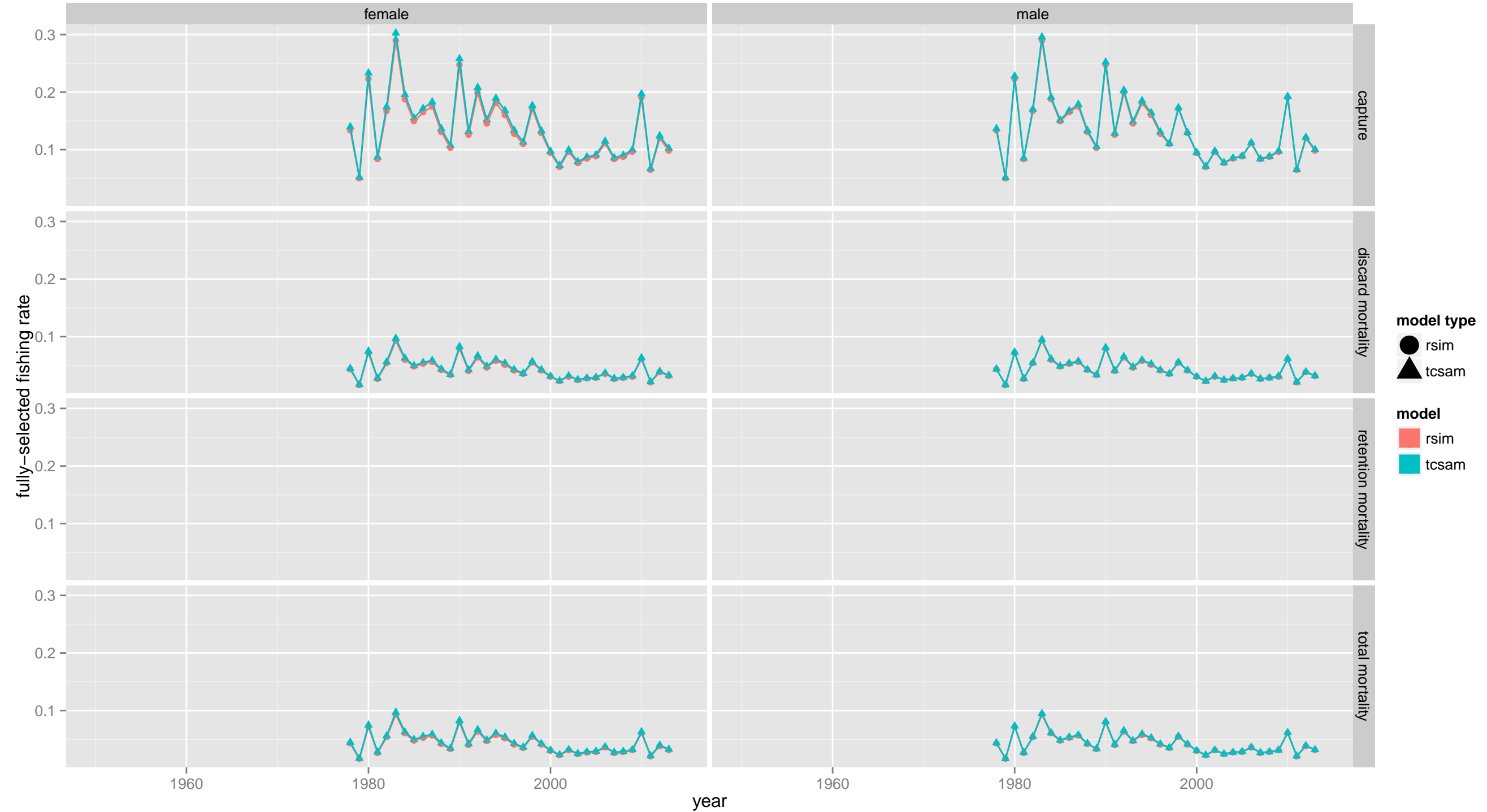
TCF



TCF



SCF



SCF

female

male



model type

- rsim
- tcsam

model

- rsim
- tcsam

capture

discard mortality

retention mortality

total mortality

1960

1980

2000

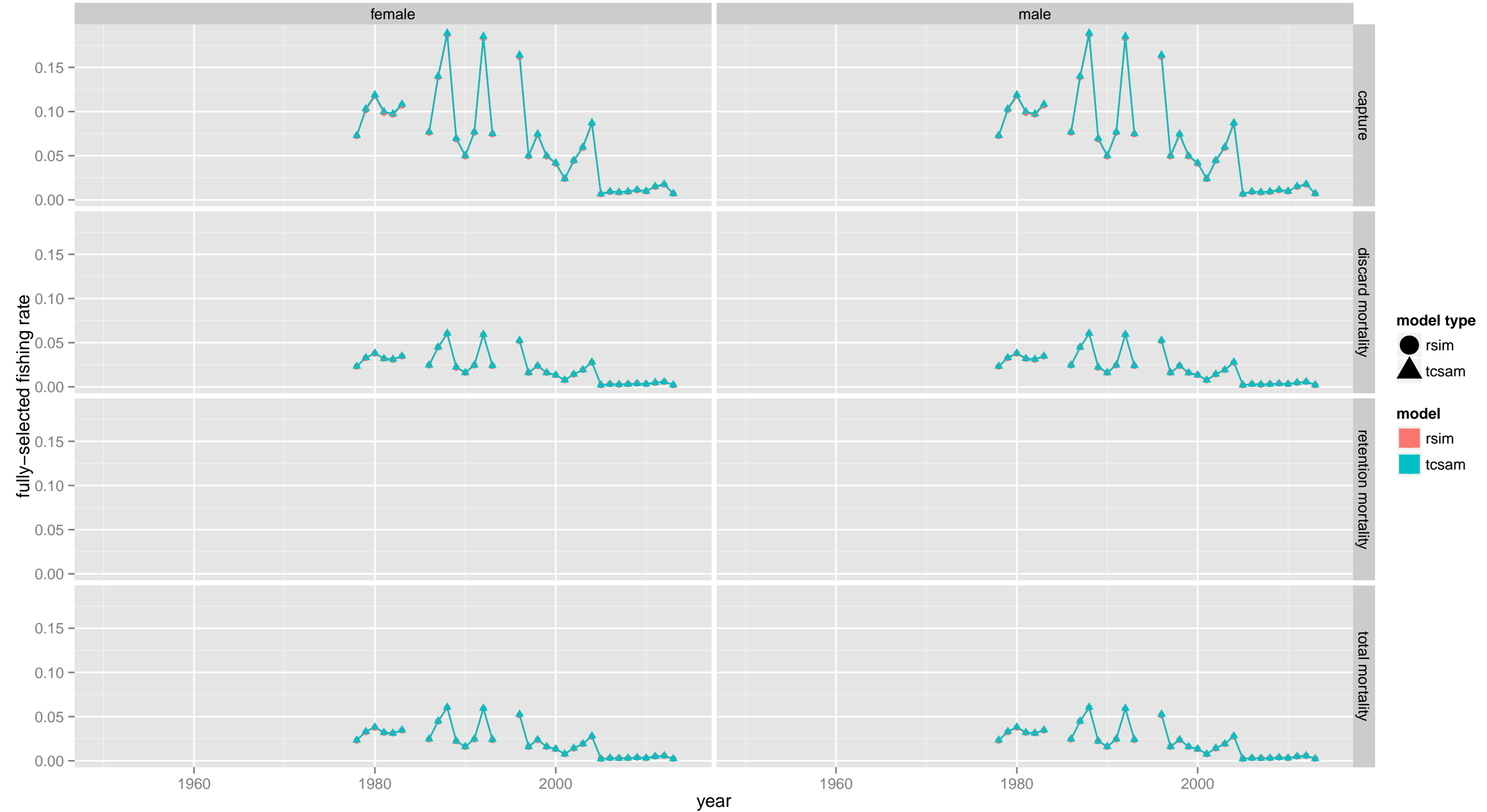
year

1960

1980

2000

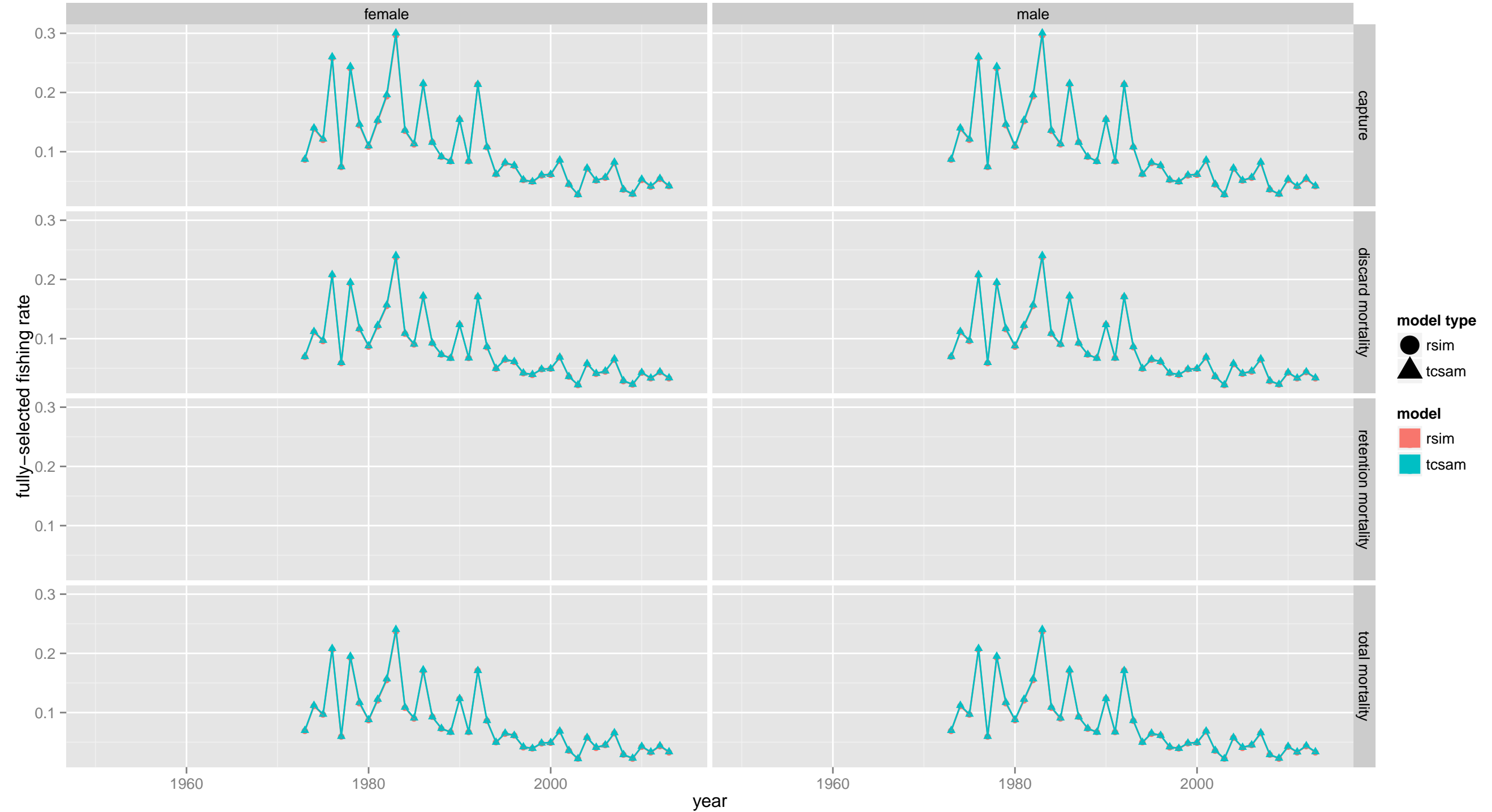
RKF



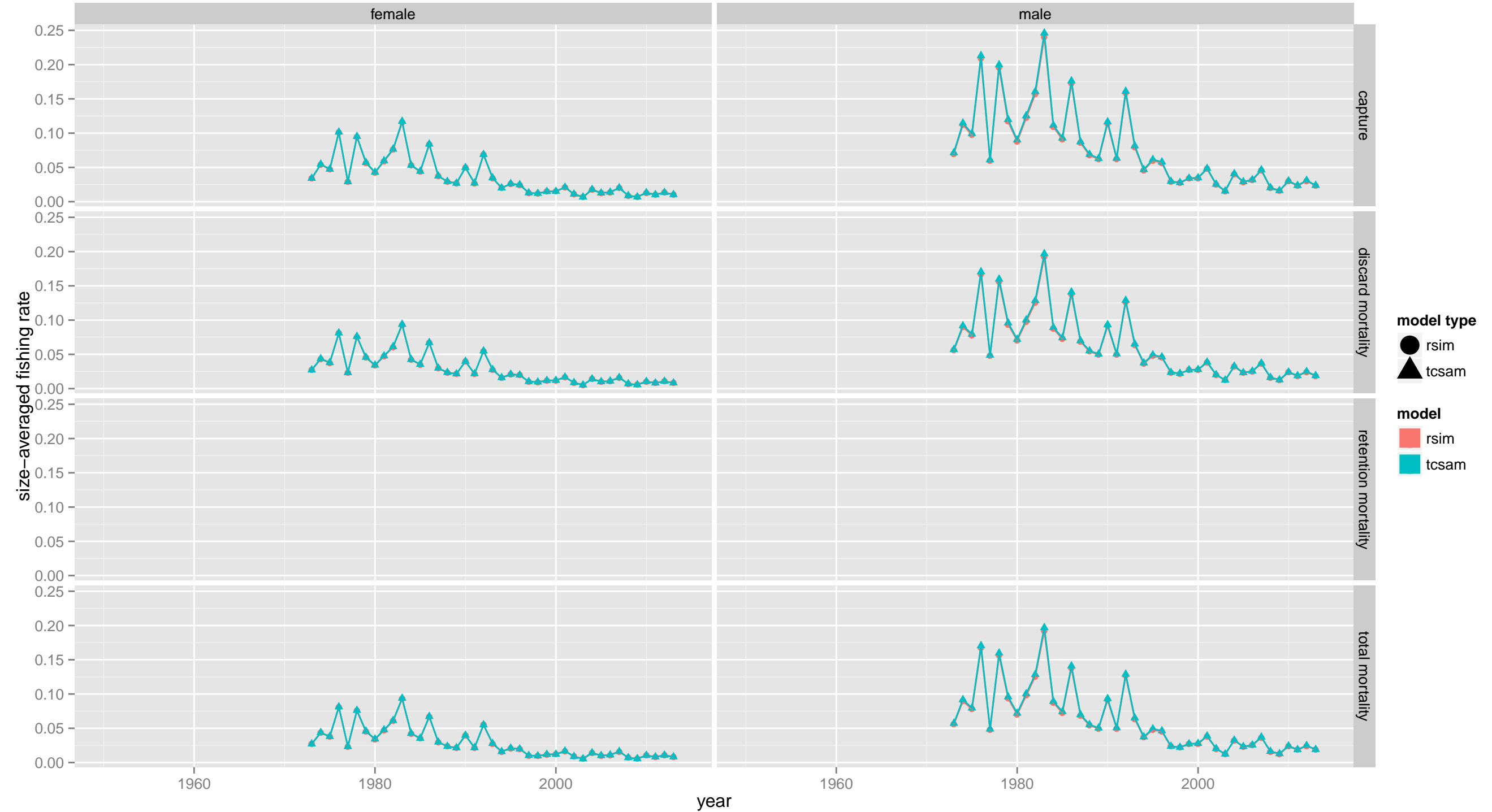
RKF



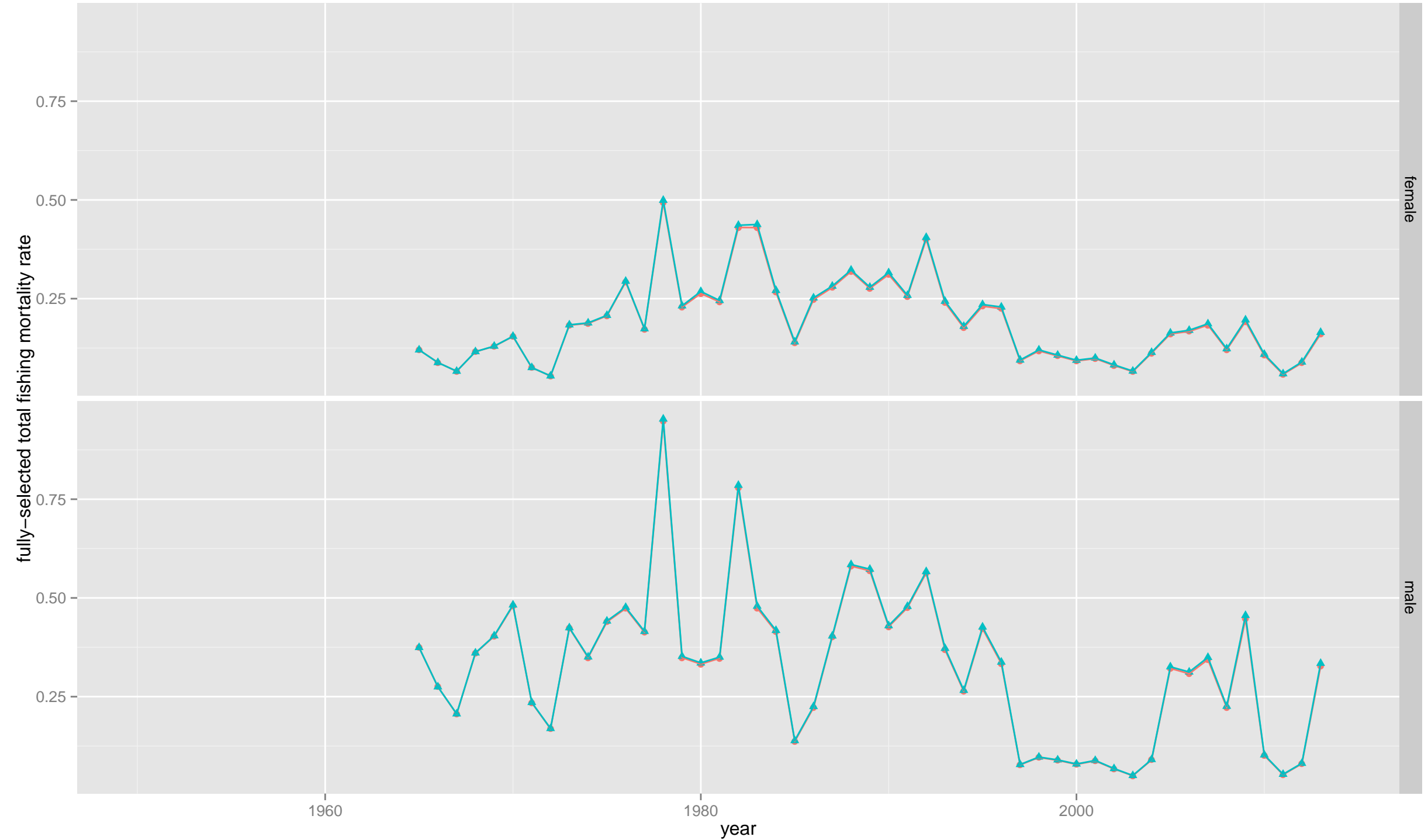
GTF



GTF



all fisheries



all fisheries

female

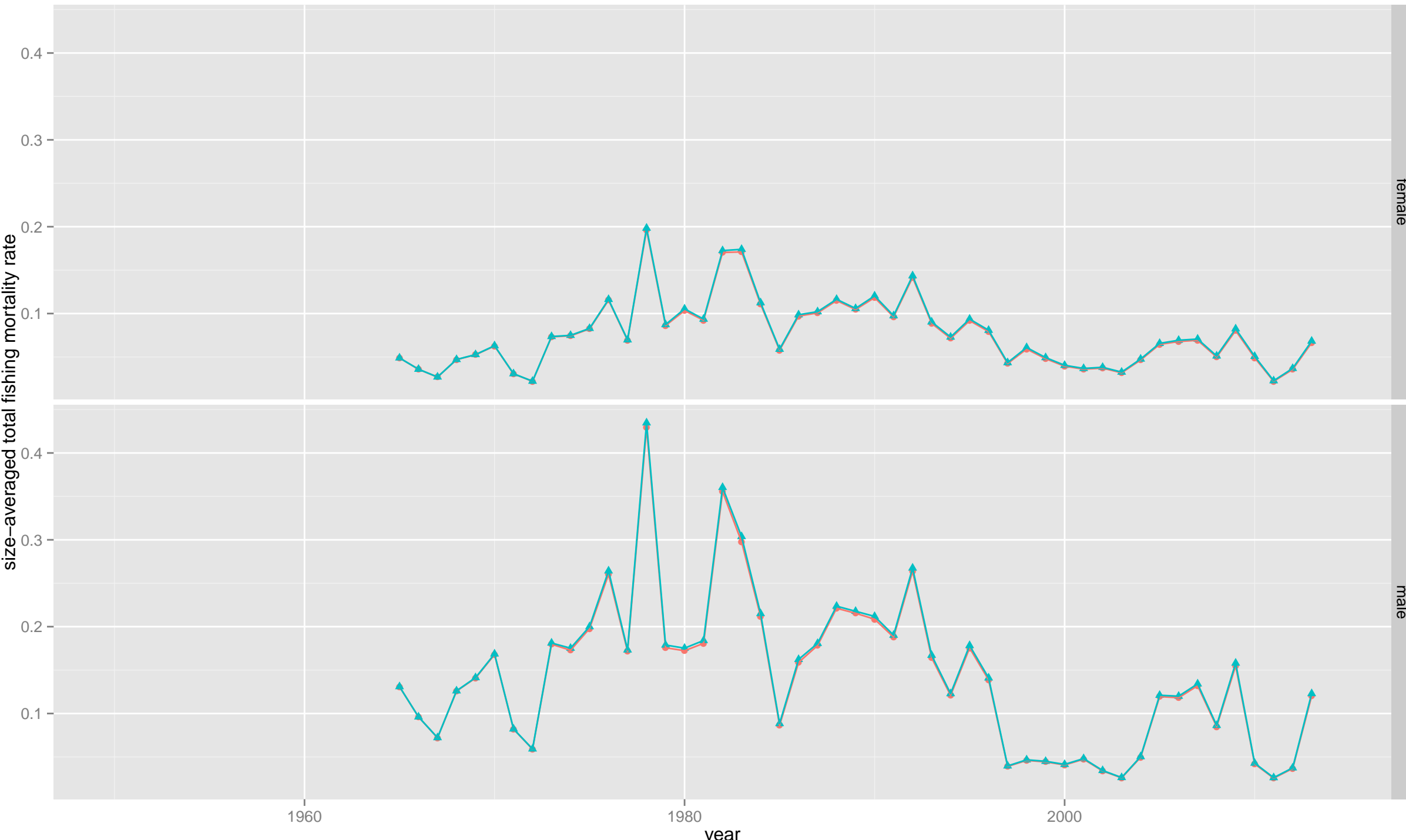
male

model type

- rsim
- ▲ tcsam

model

- rsim
- tcsam



TCF

female

male

captured

discard mortality

discarded

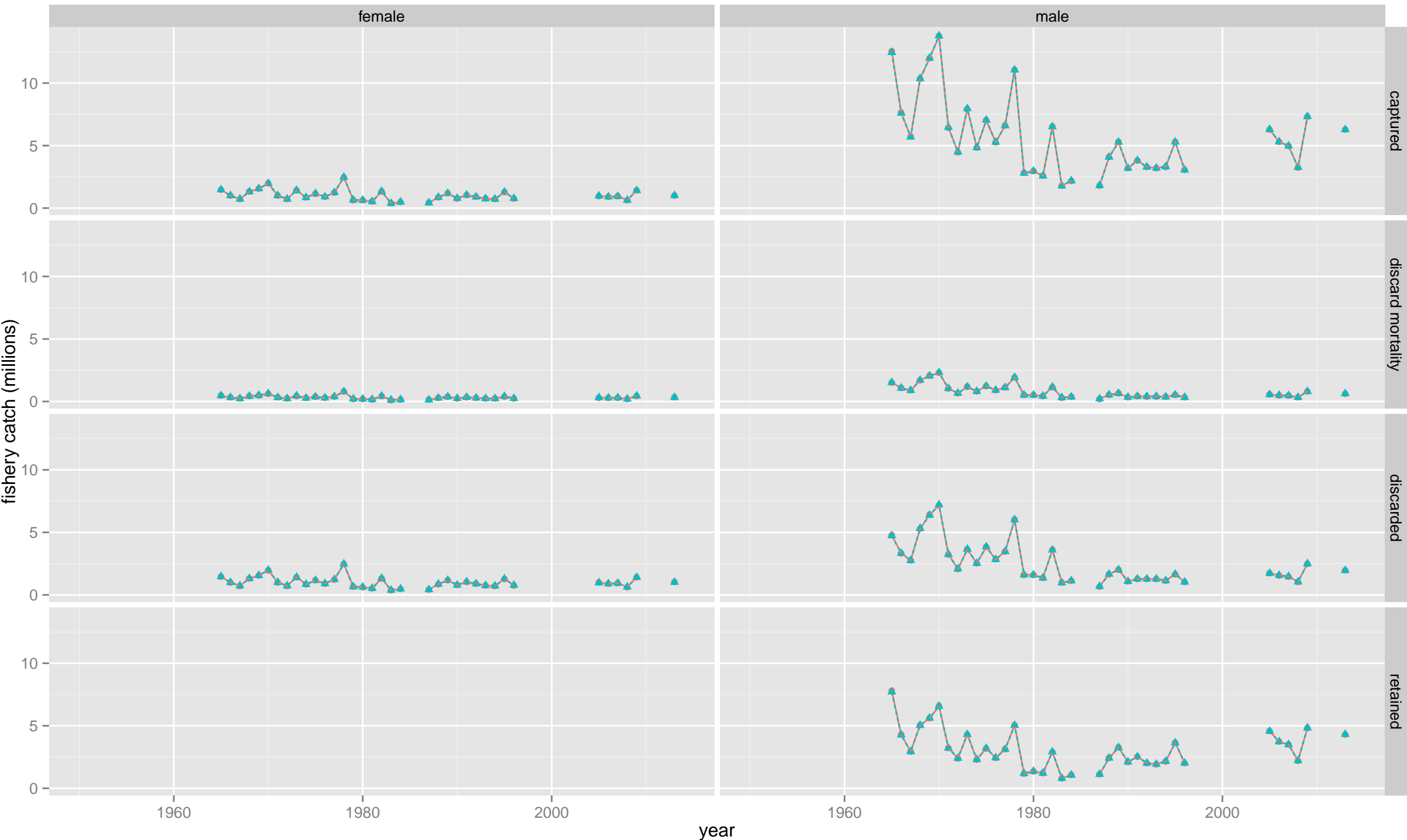
retained

model type

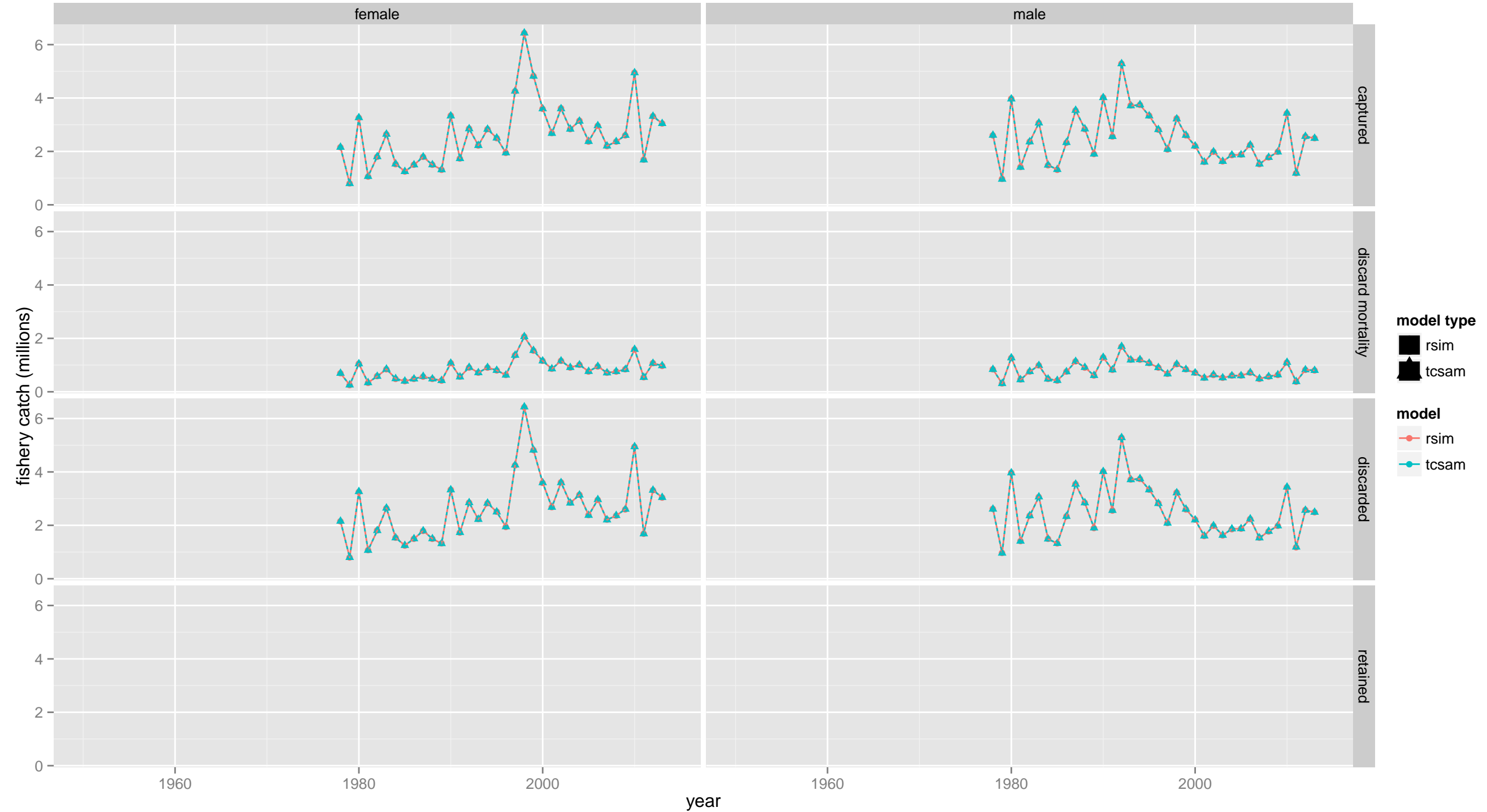
- rsim
- tcsam

model

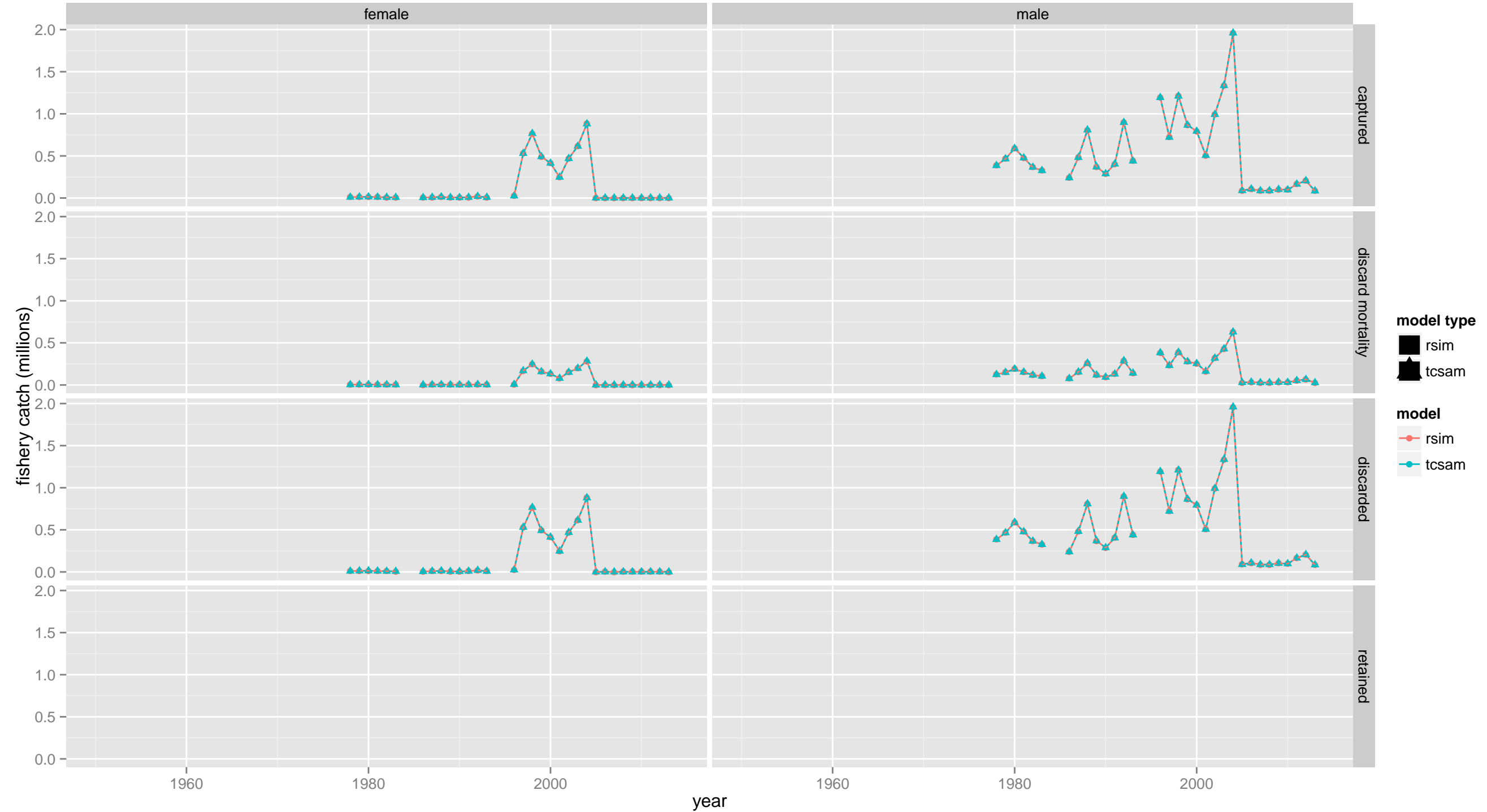
- rsim
- tcsam



SCF



RKF



GTF

female

male

captured

discard mortality

discarded

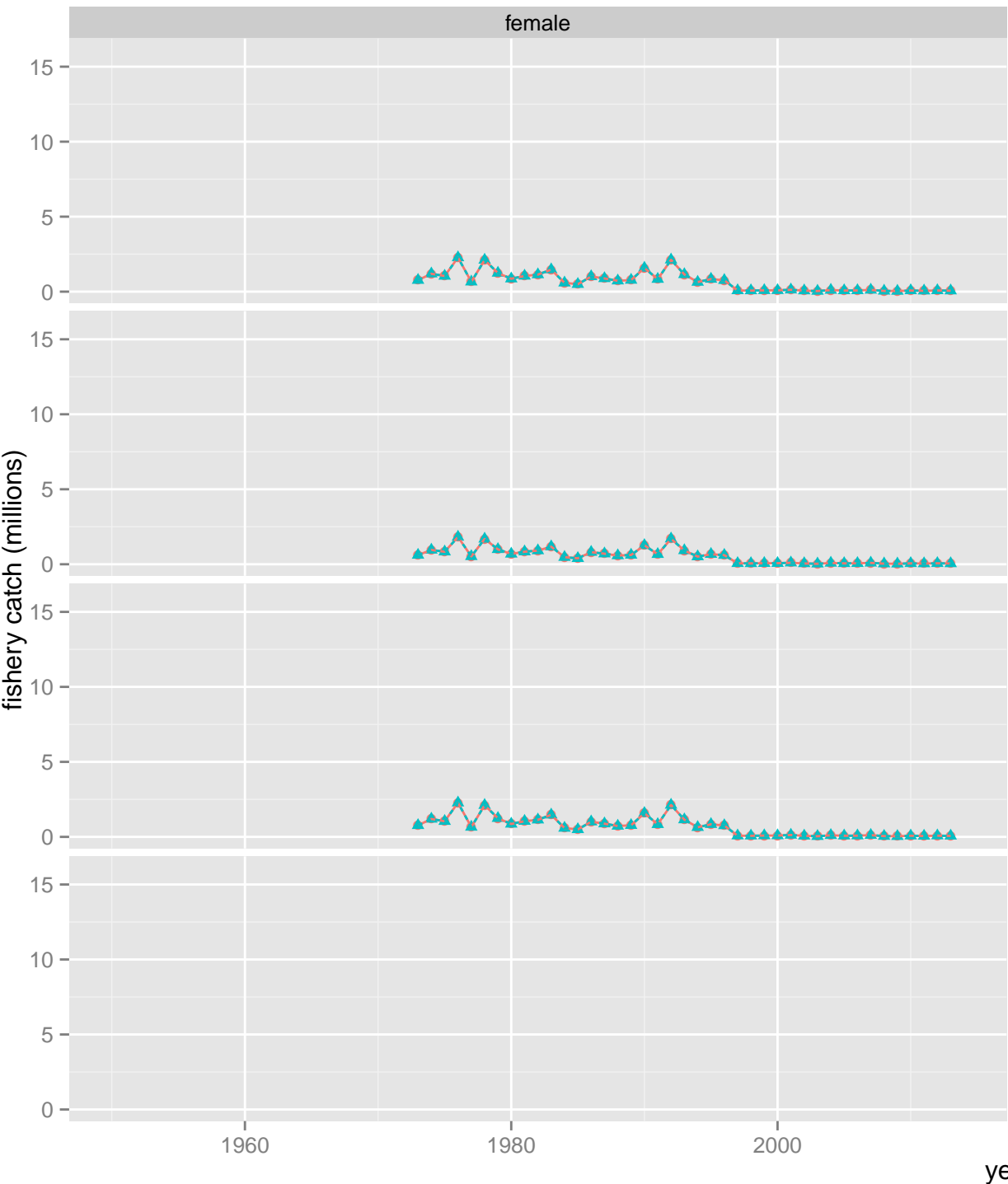
retained

model type

- rsim
- tcsam

model

- rsim
- tcsam



1960

1980

2000

year

1960

1980

2000

TCF

female

male

captured

discard mortality

discarded

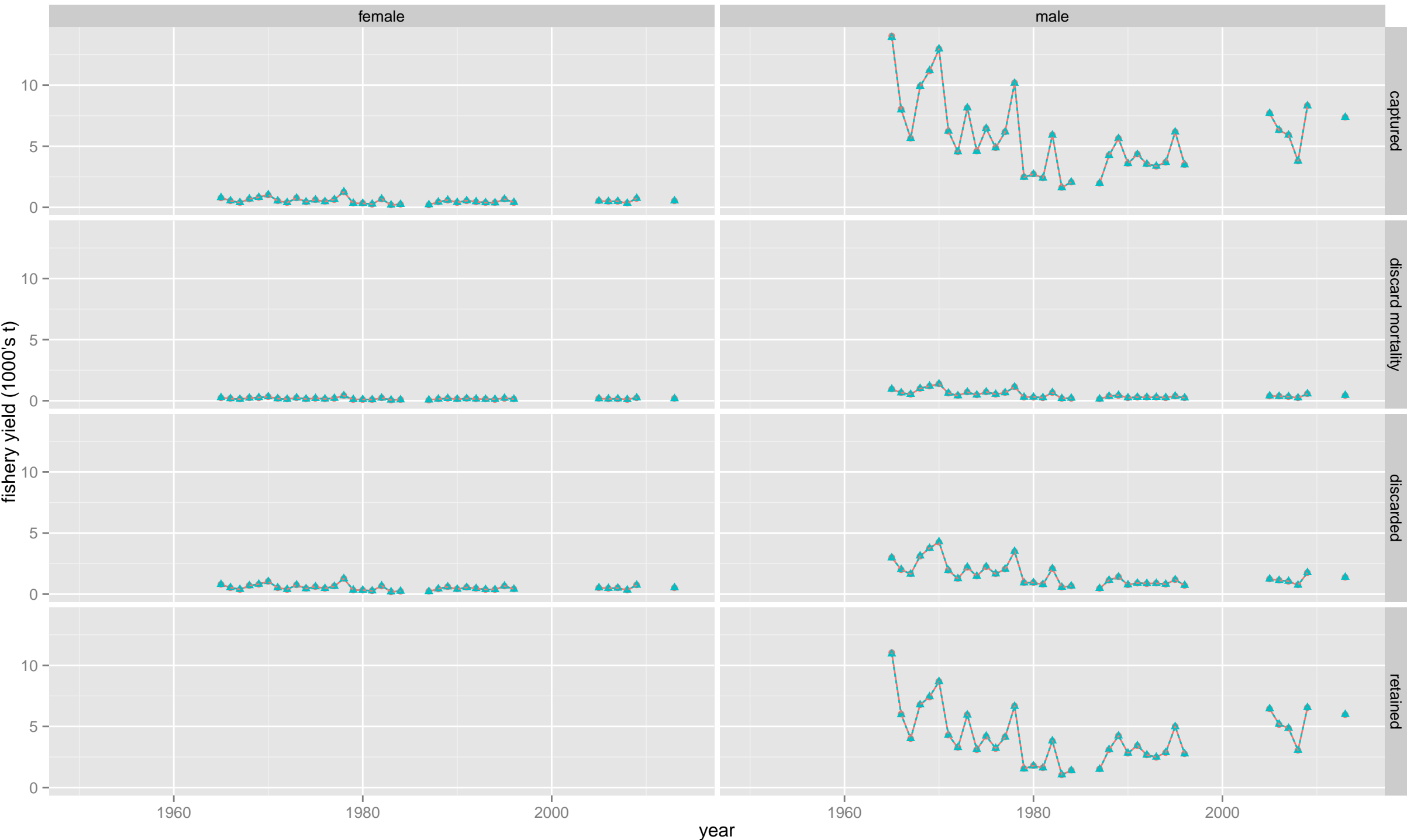
retained

model type

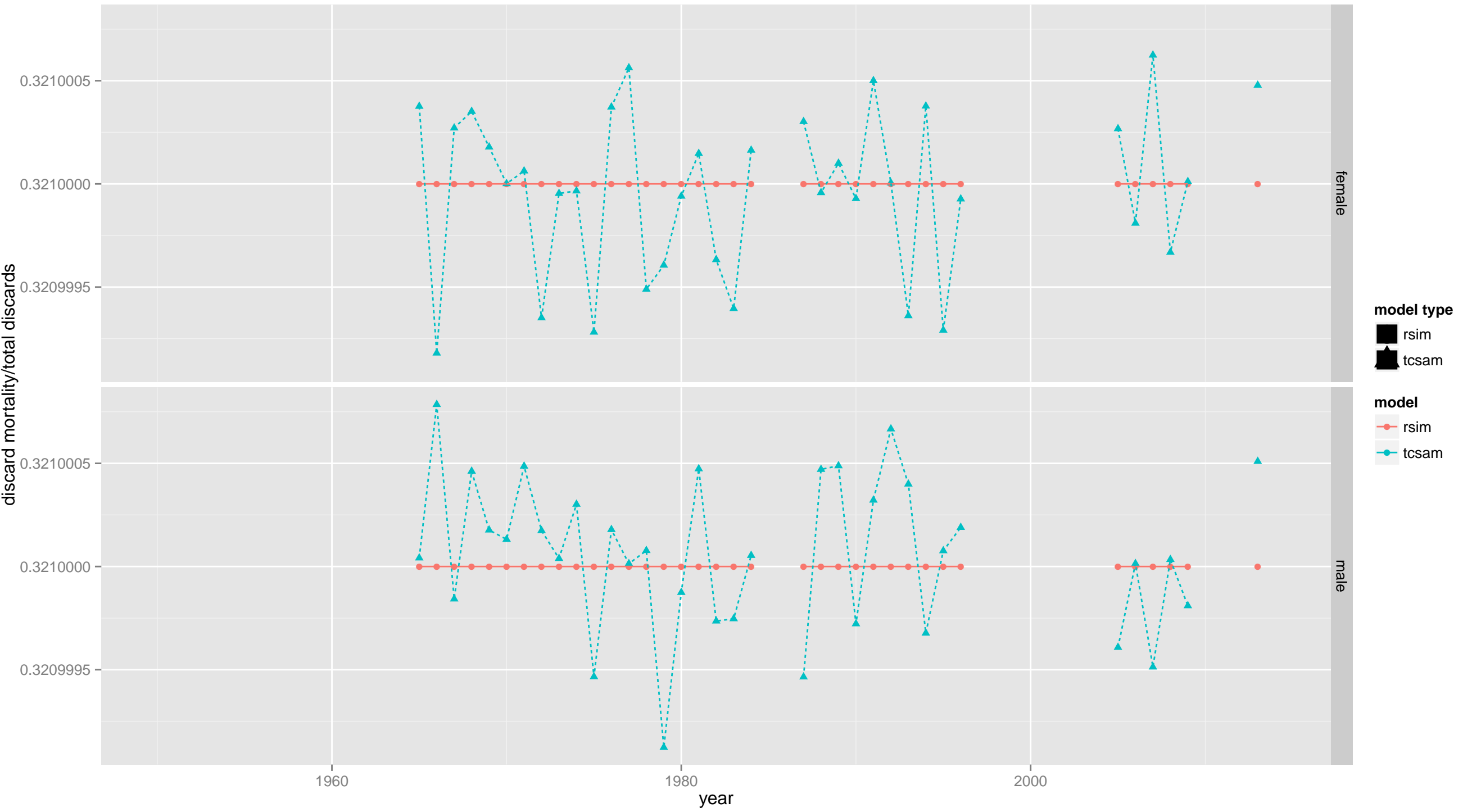
- rsim
- tcsam

model

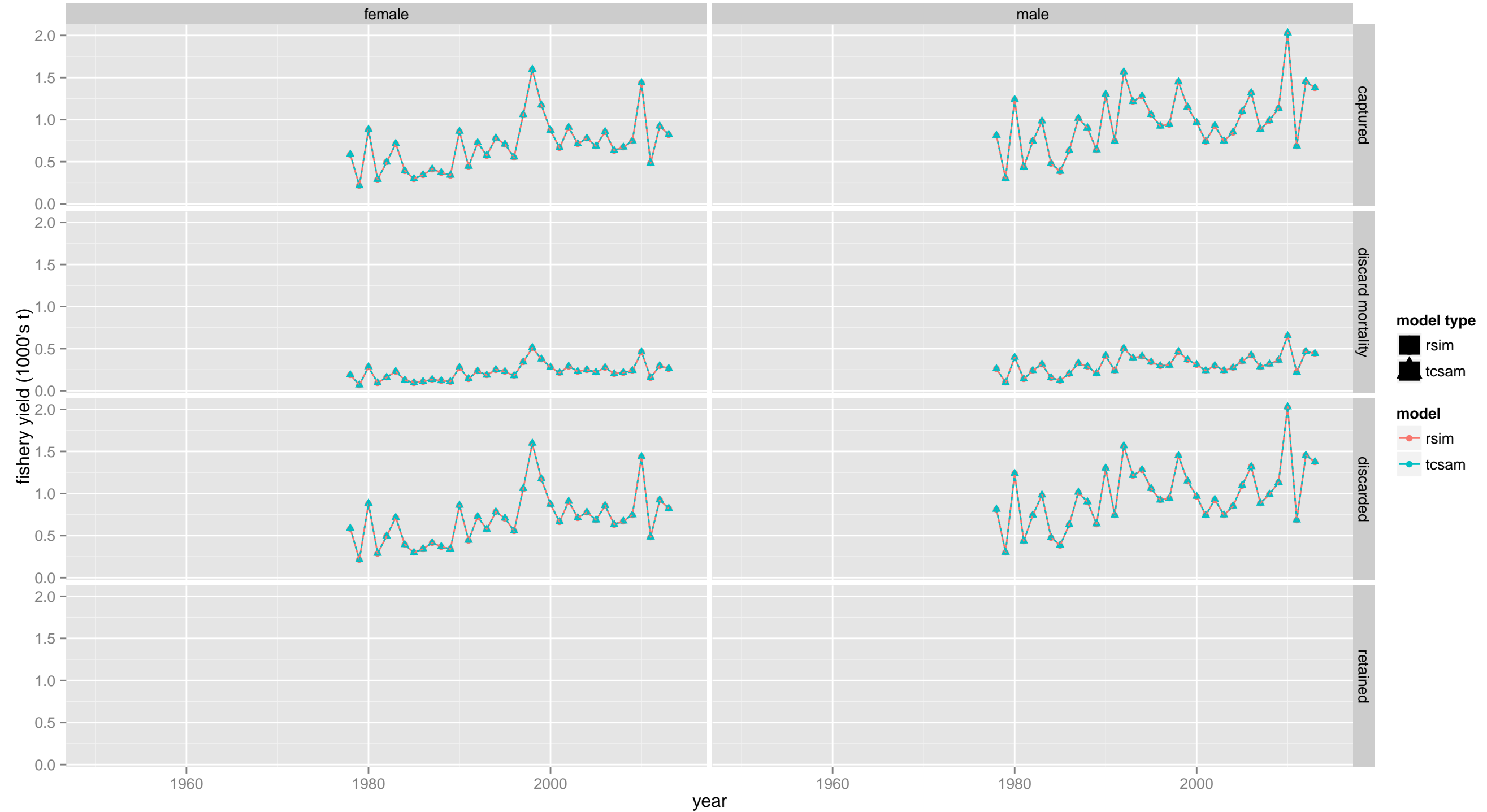
- rsim
- tcsam



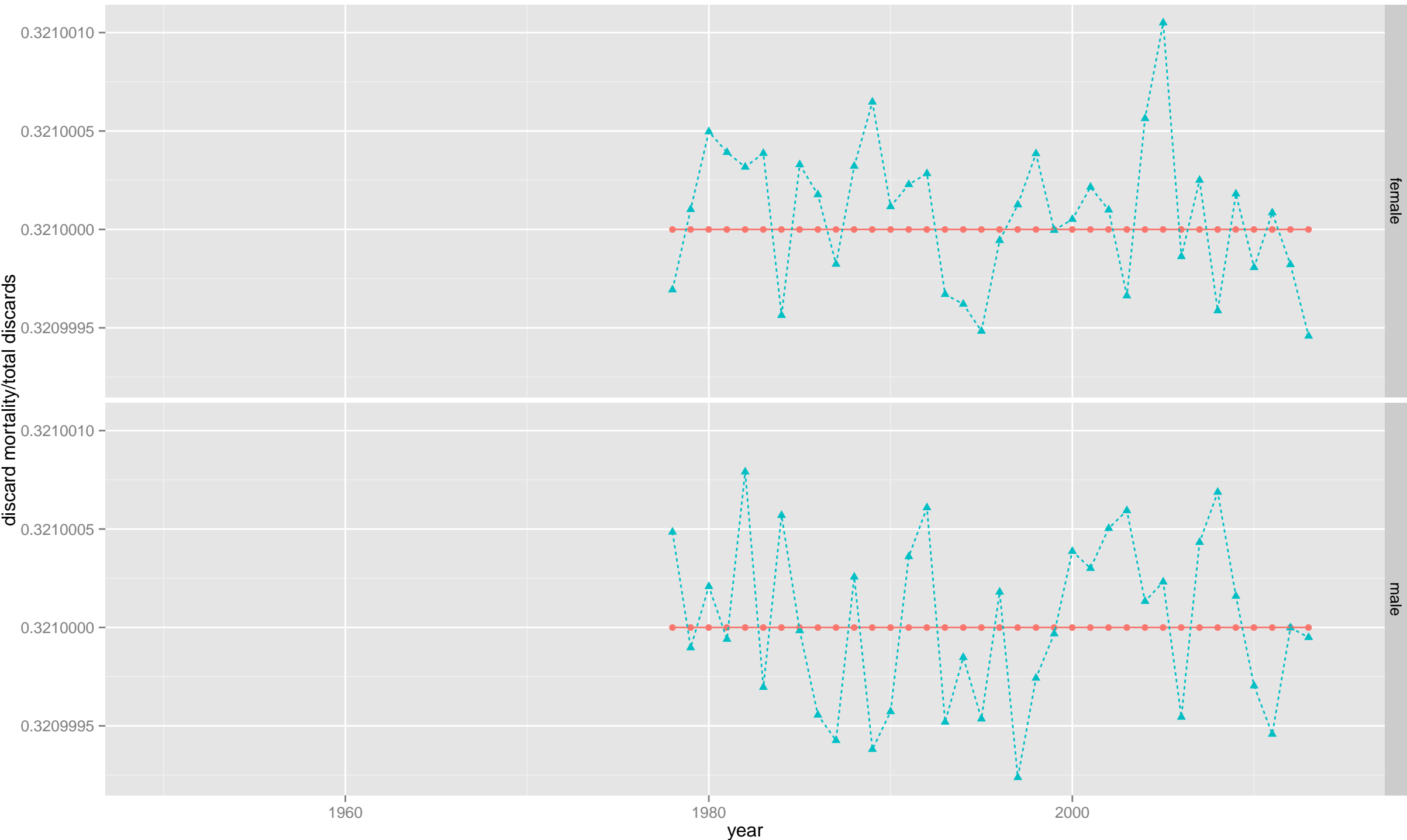
TCF



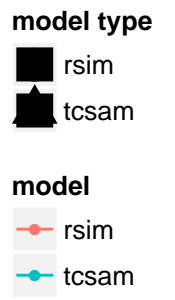
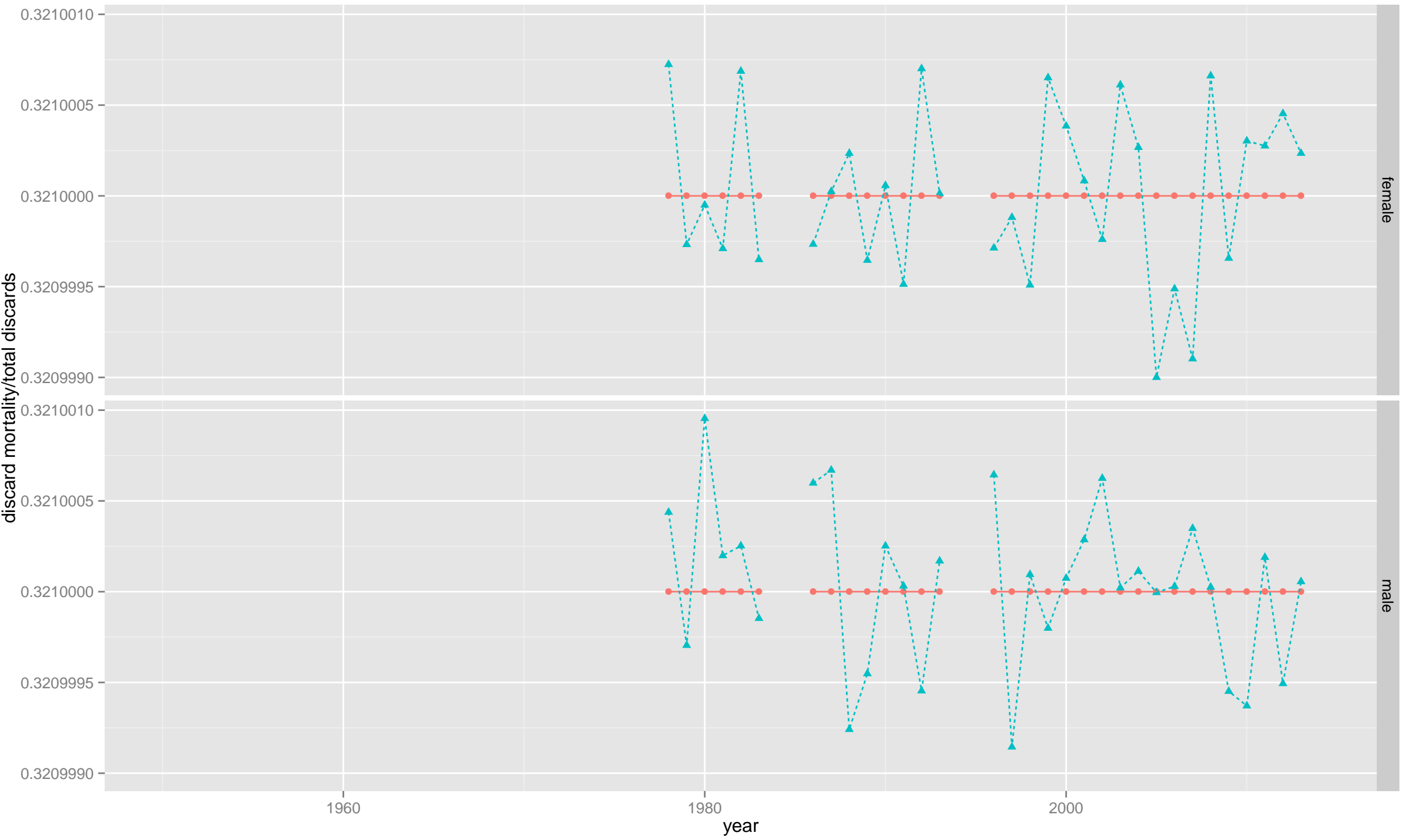
SCF



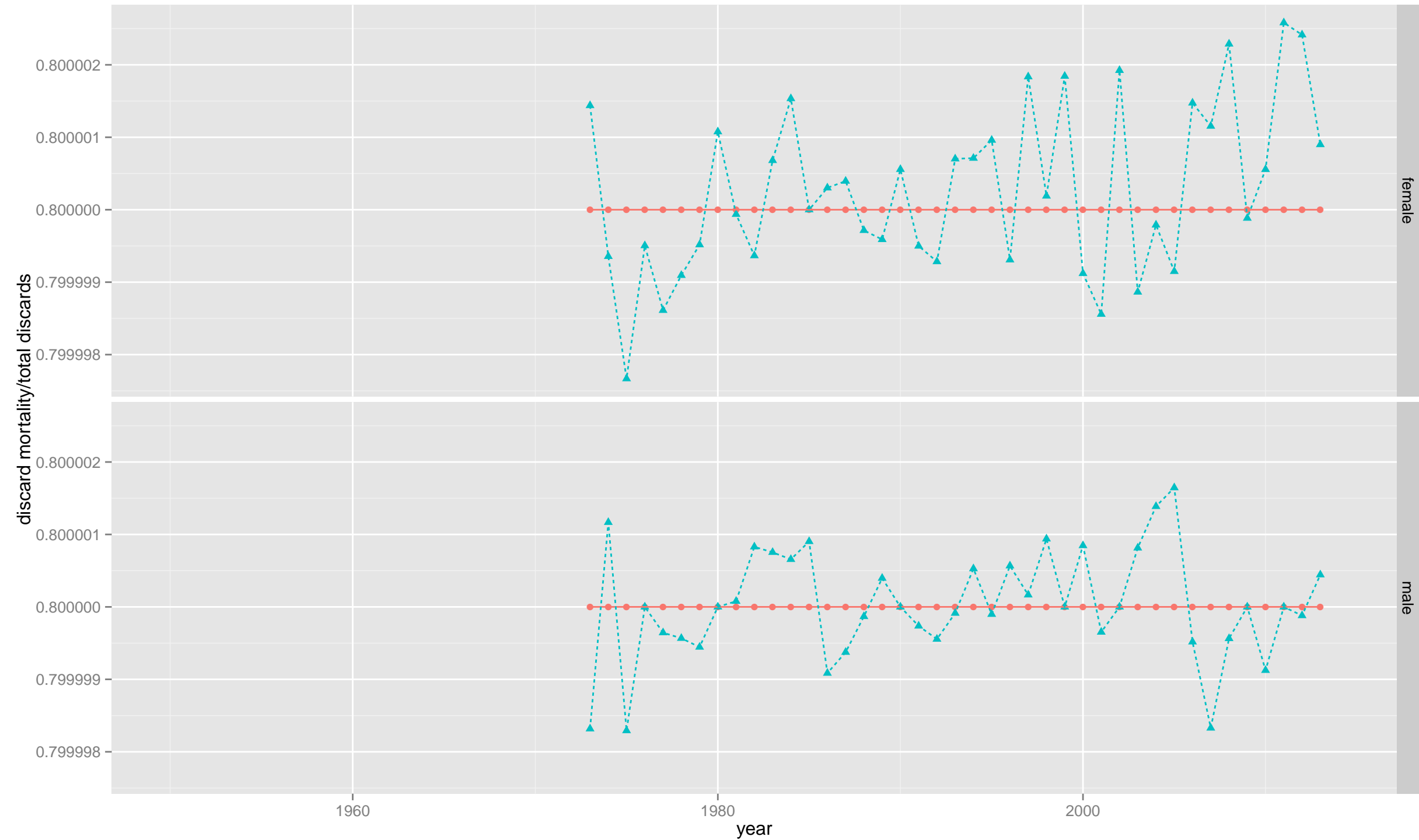
SCF



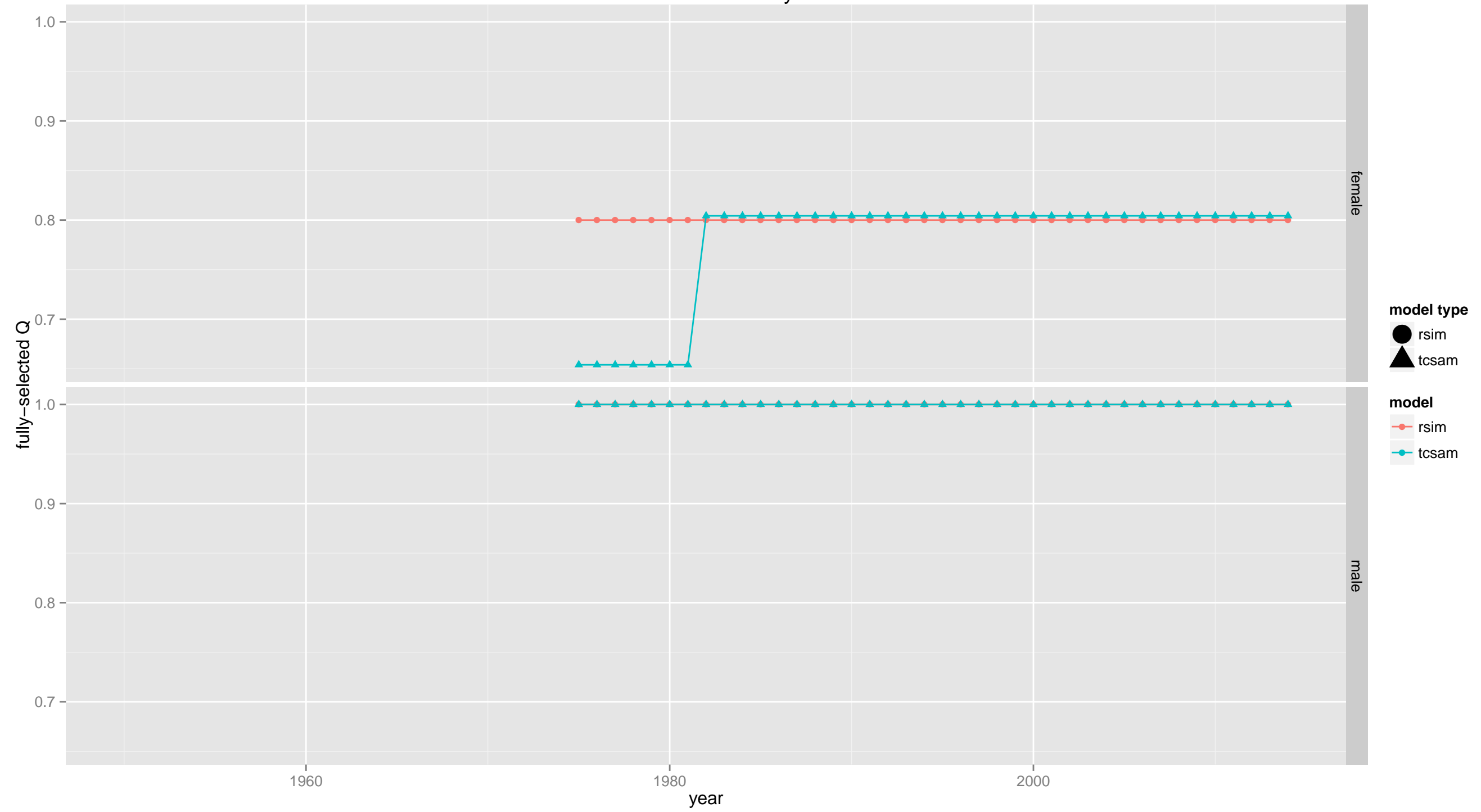
RKF



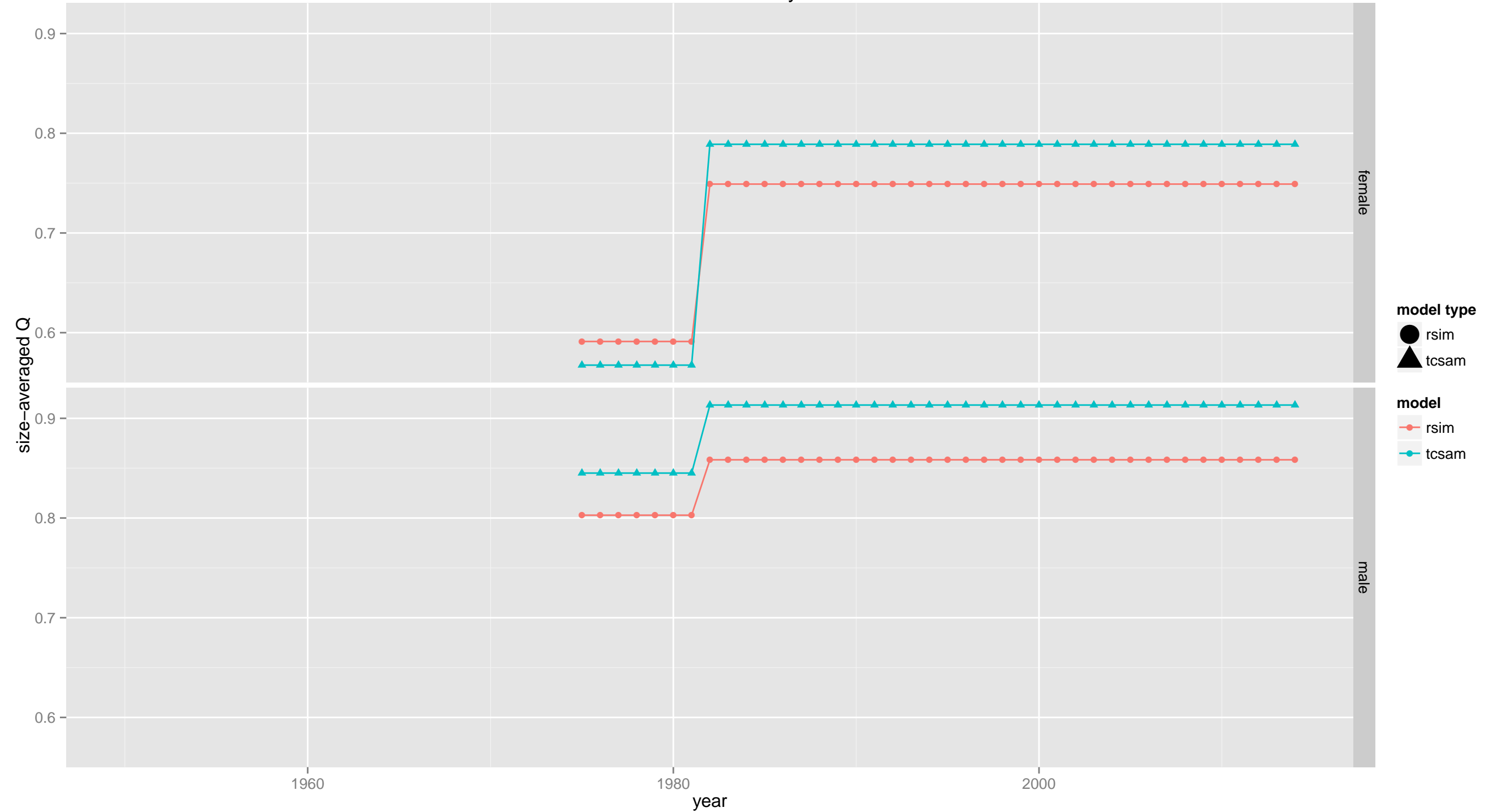
GTF



NMFS trawl survey



NMFS trawl survey



NMFS trawl survey



NMFS trawl survey

