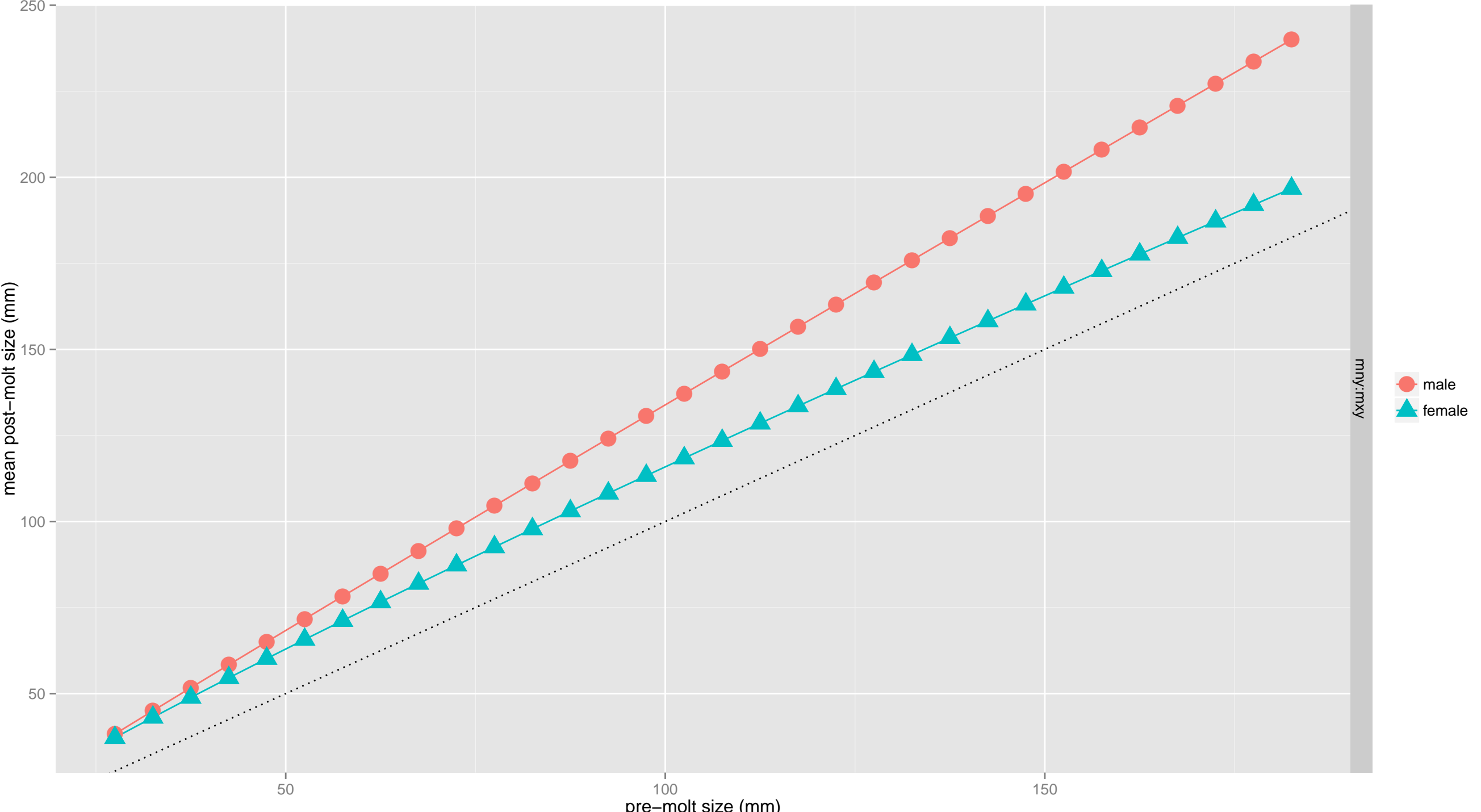
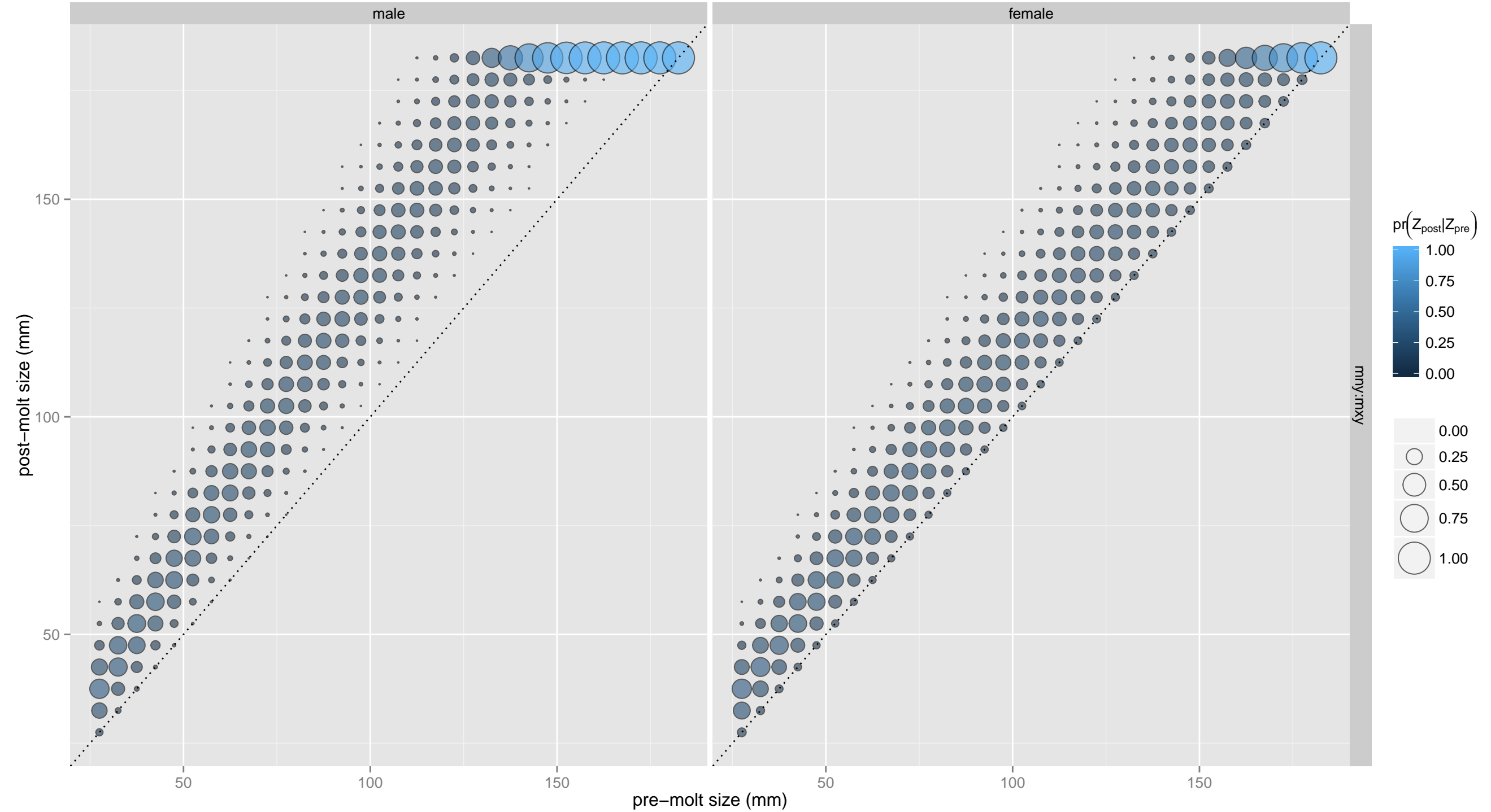
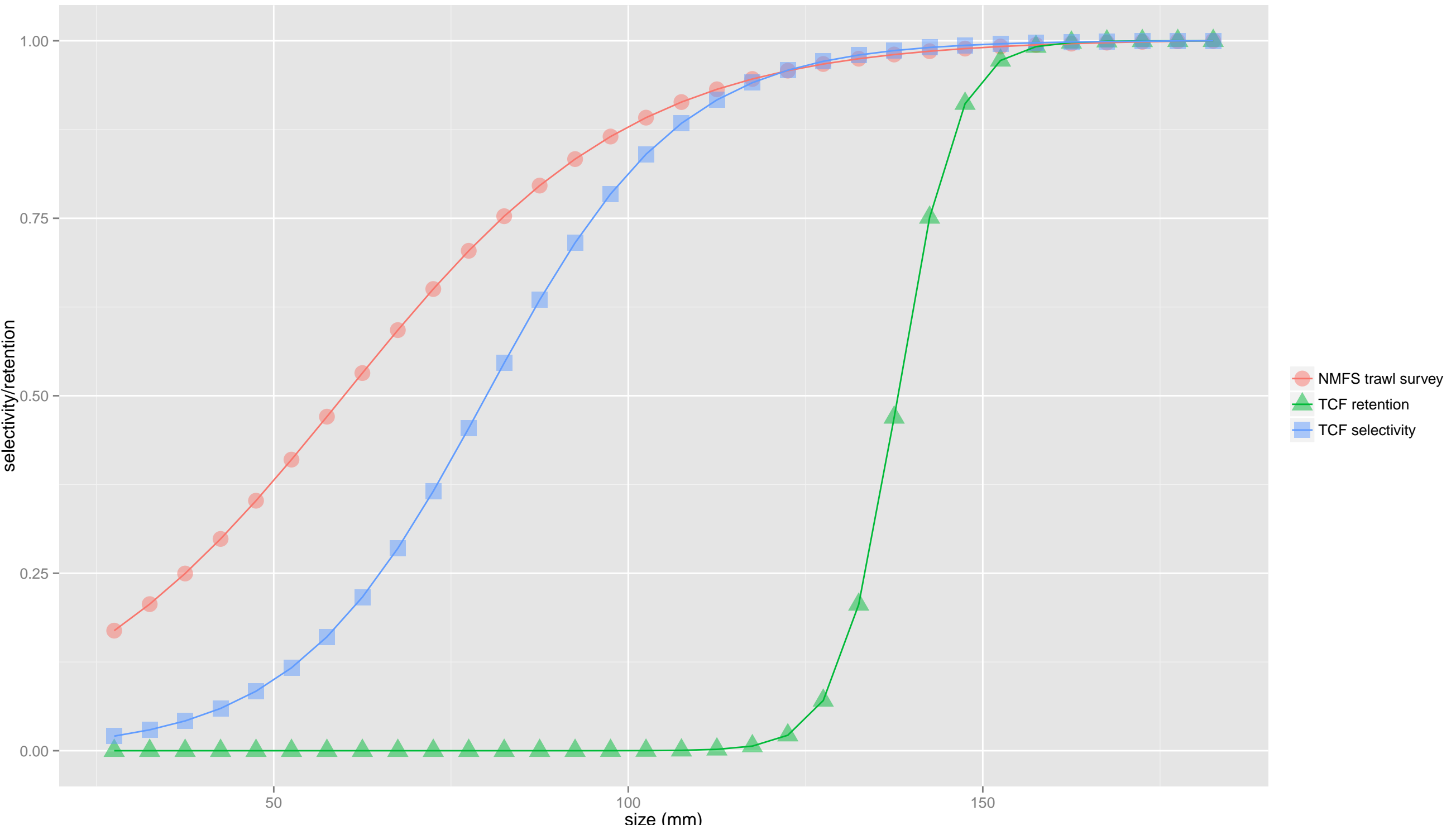


Mean Growth

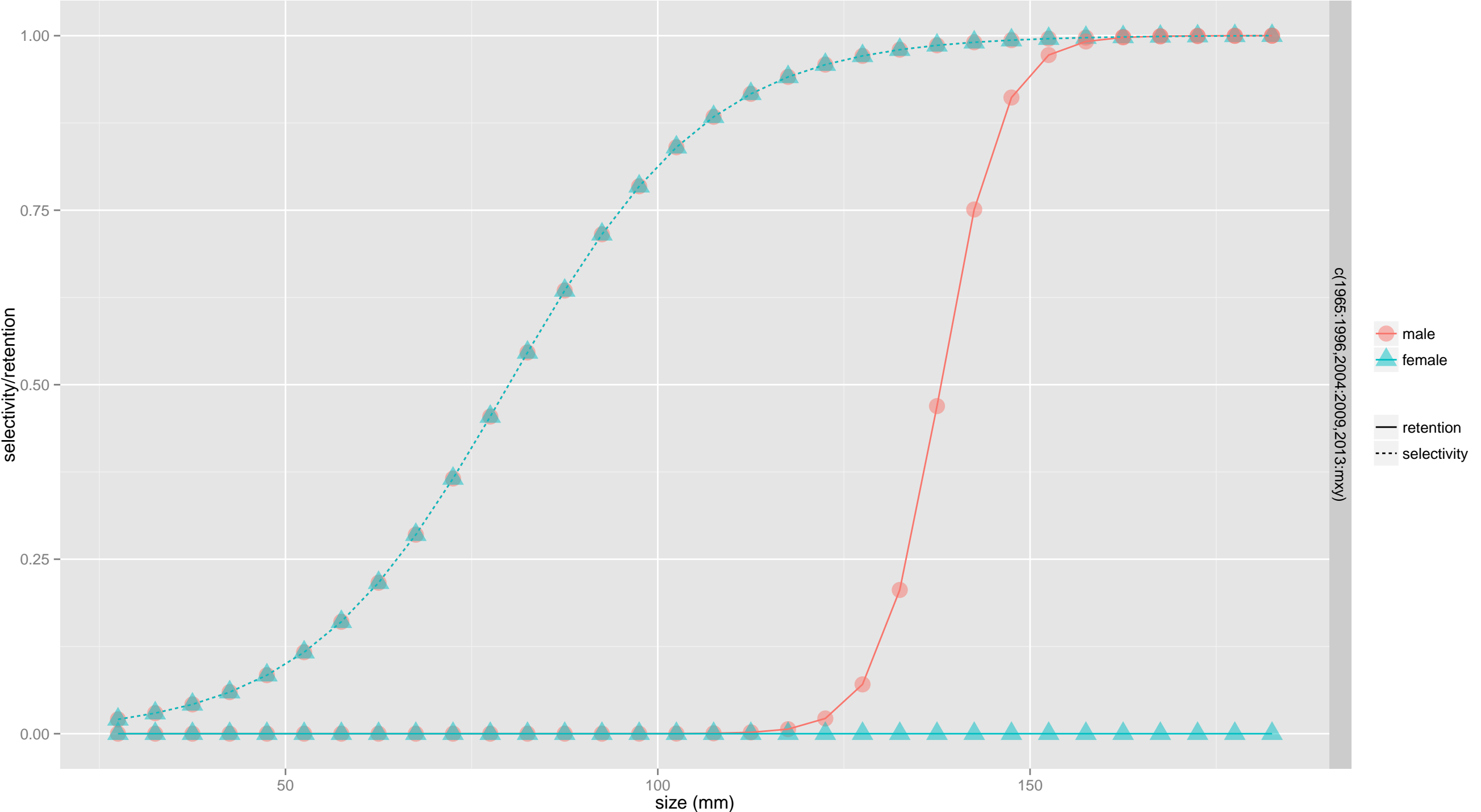


# Growth Transition Matrices





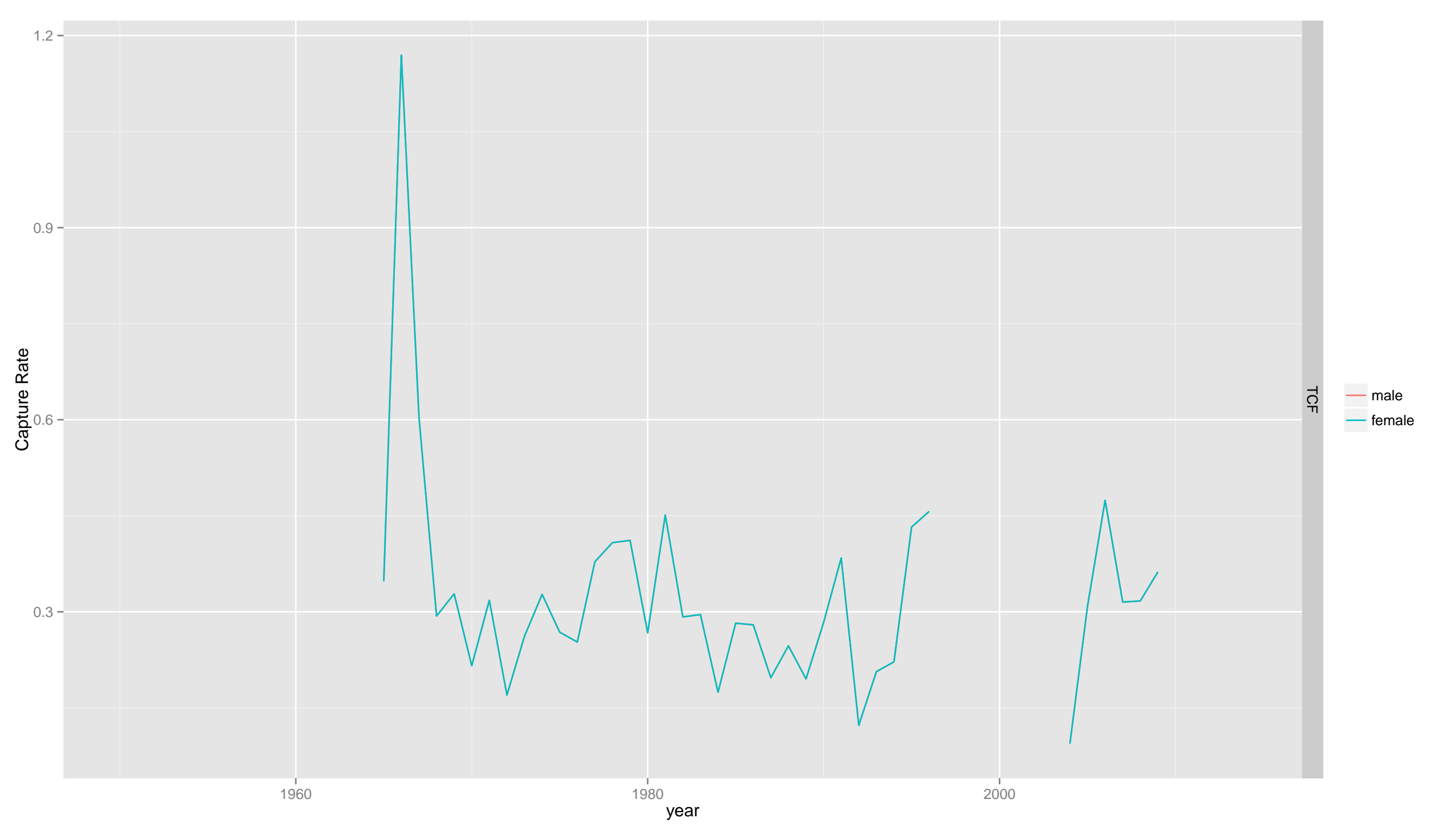
# TCF



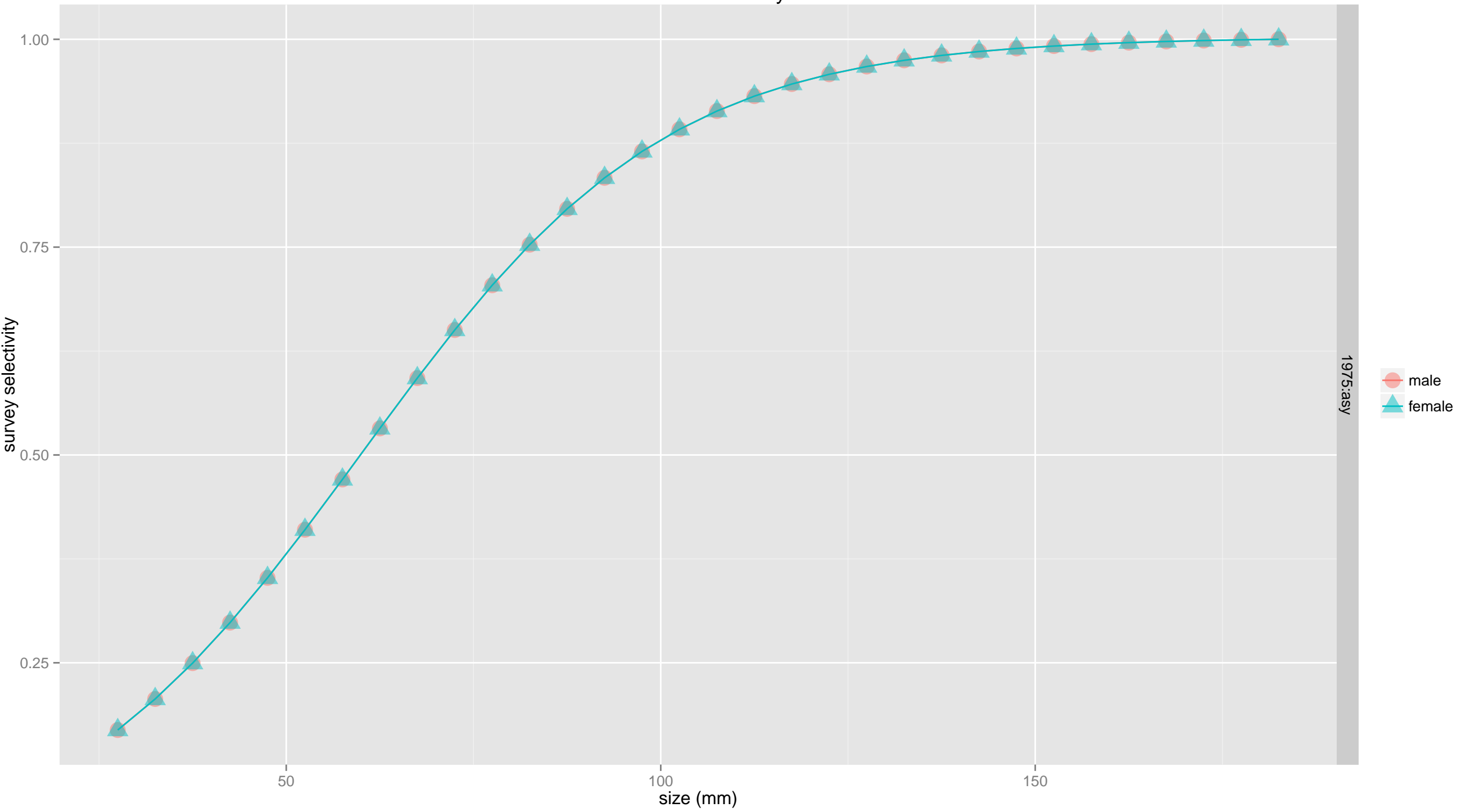
c(1965:1996,2004:2009,2013:mxv)

- male
- ▲ female
- retention
- - - selectivity

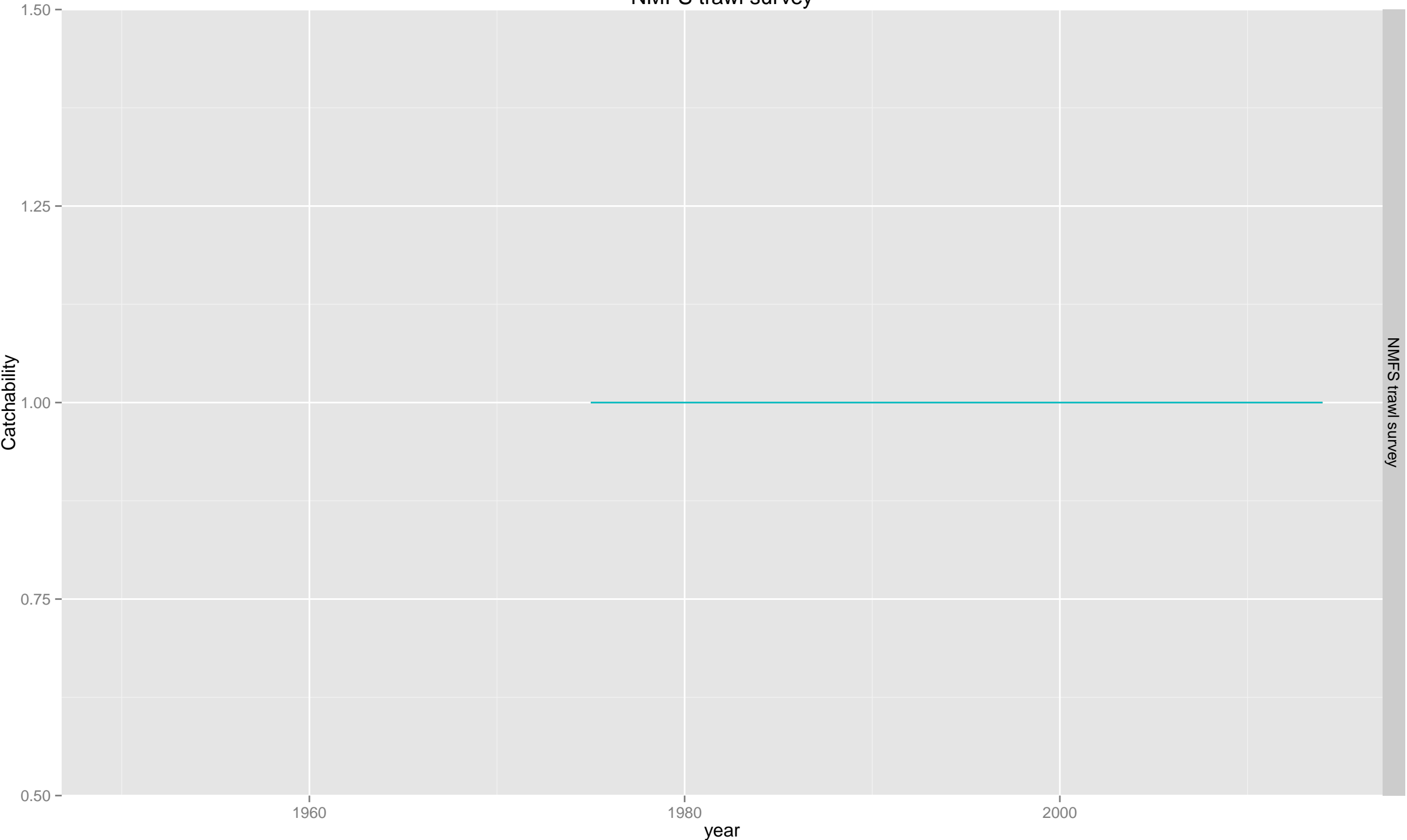




NMFS trawl survey

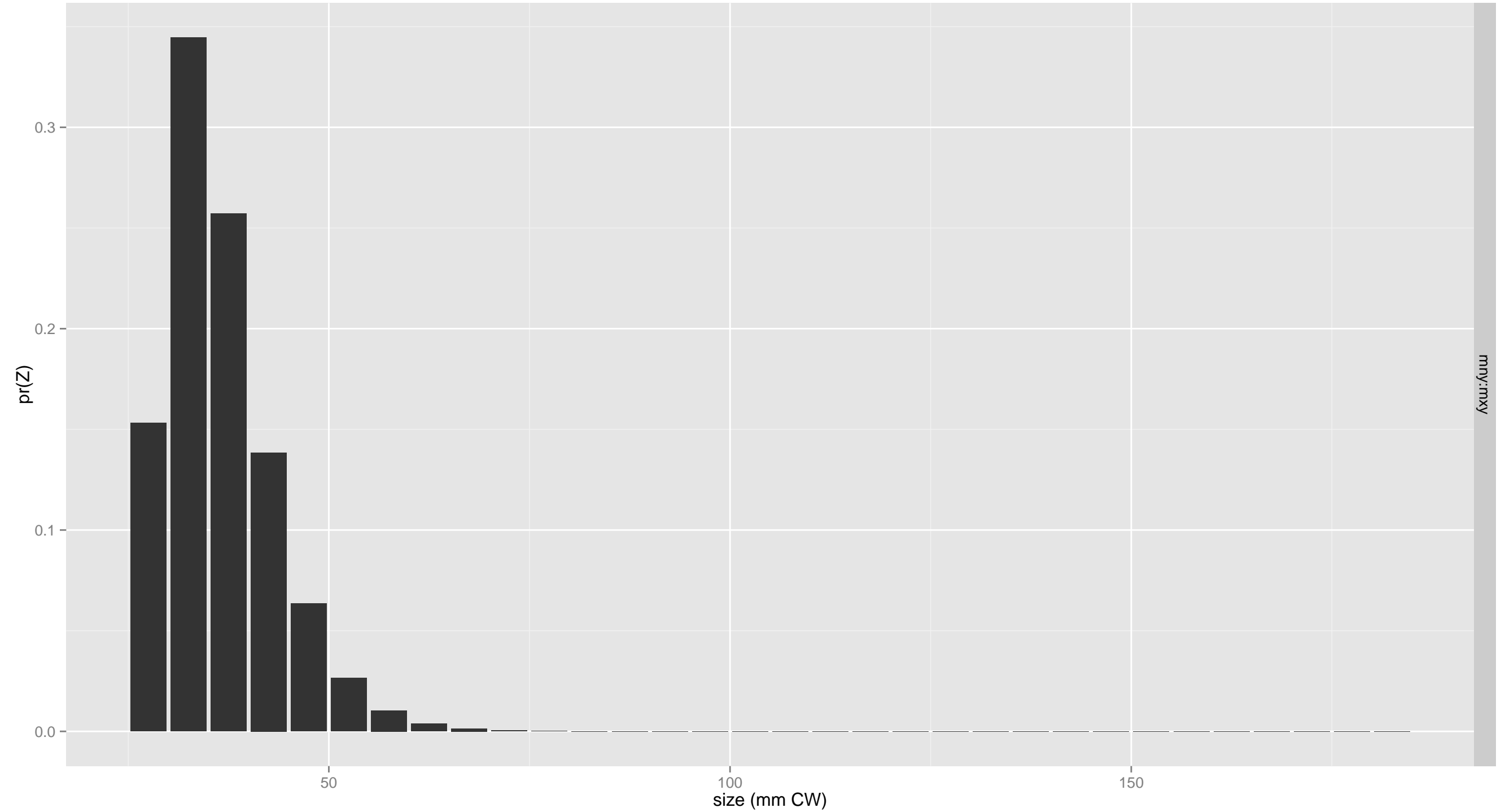


# NMFS trawl survey

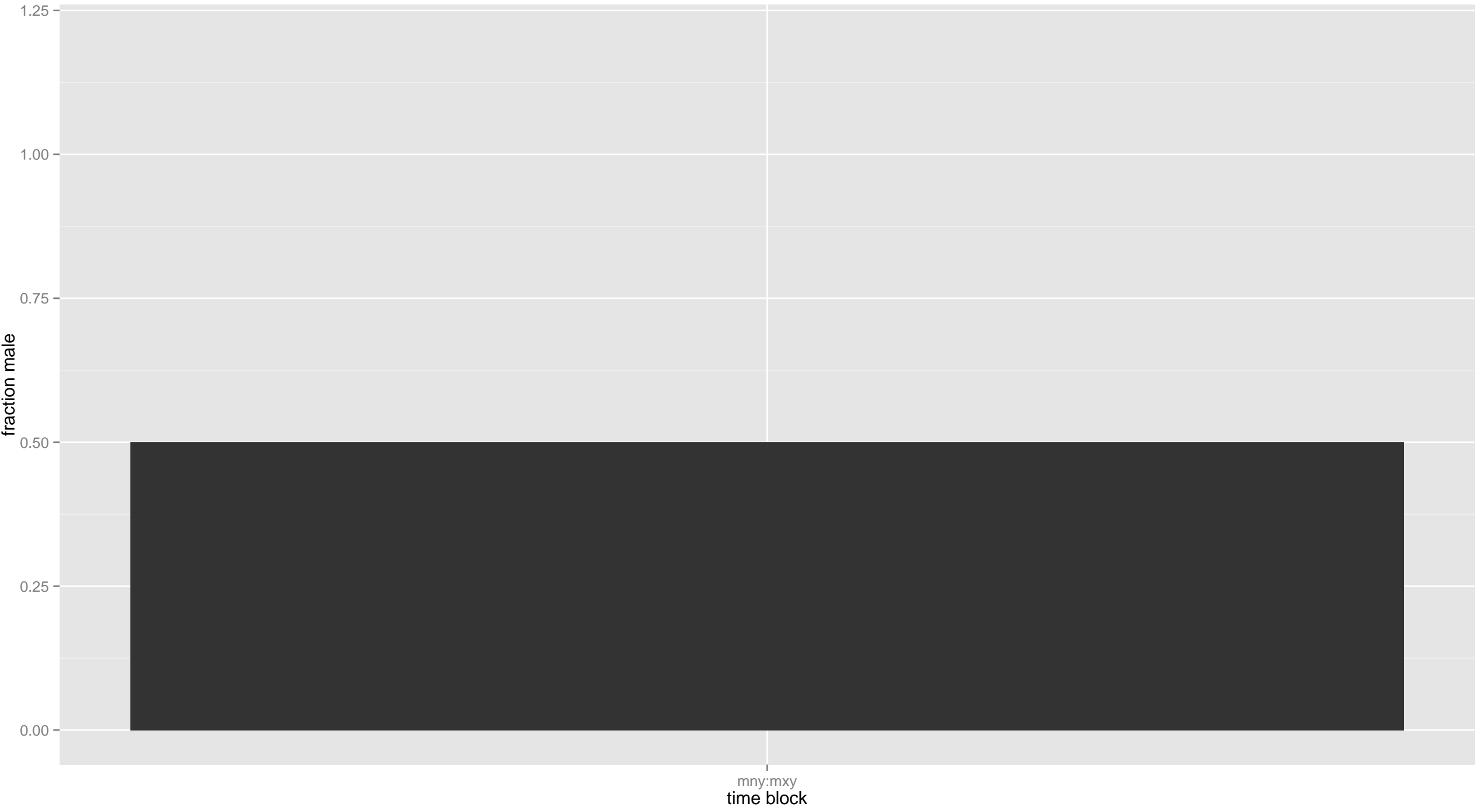


- male
- female

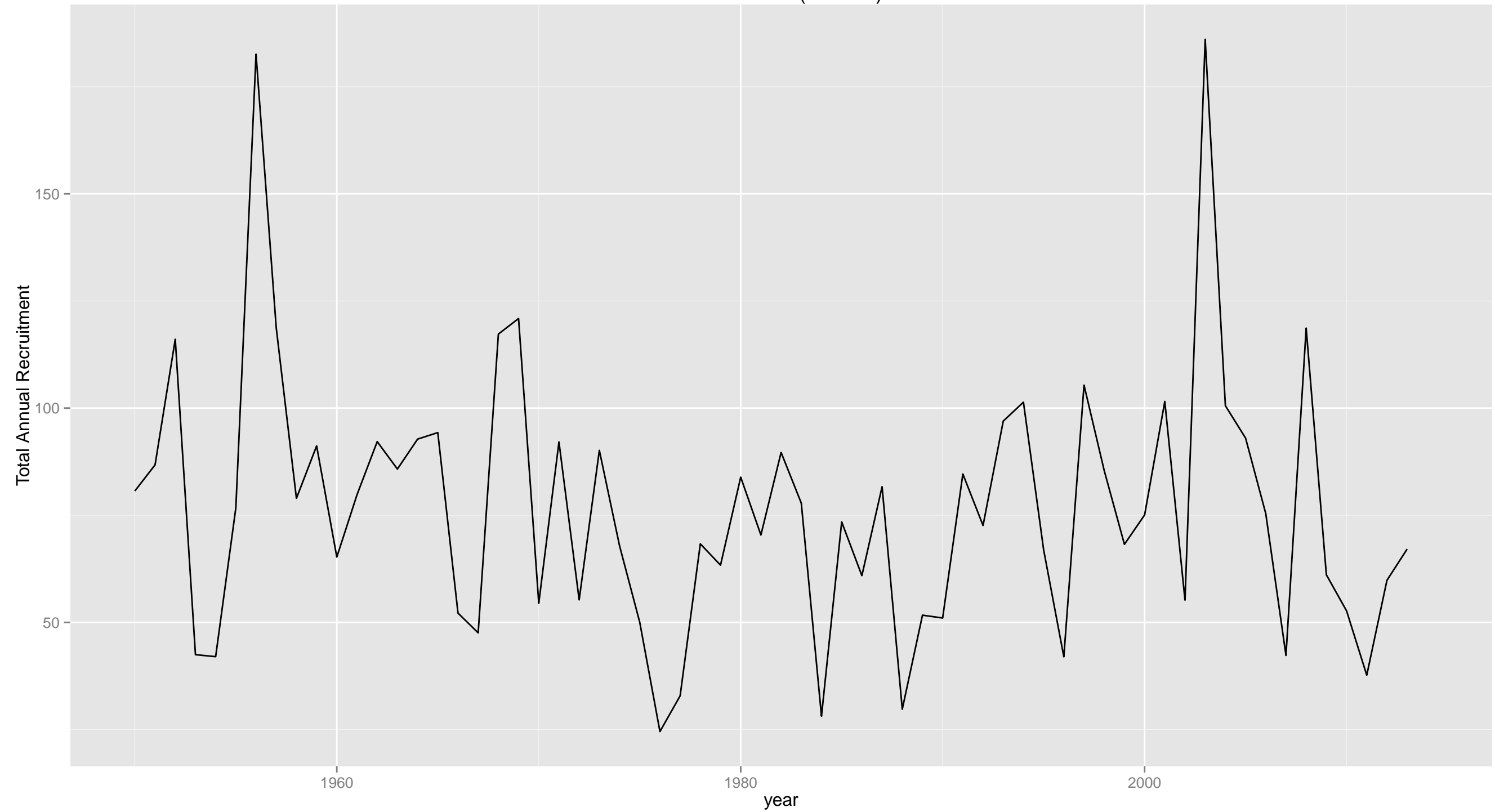
Recruitment Size Distributions



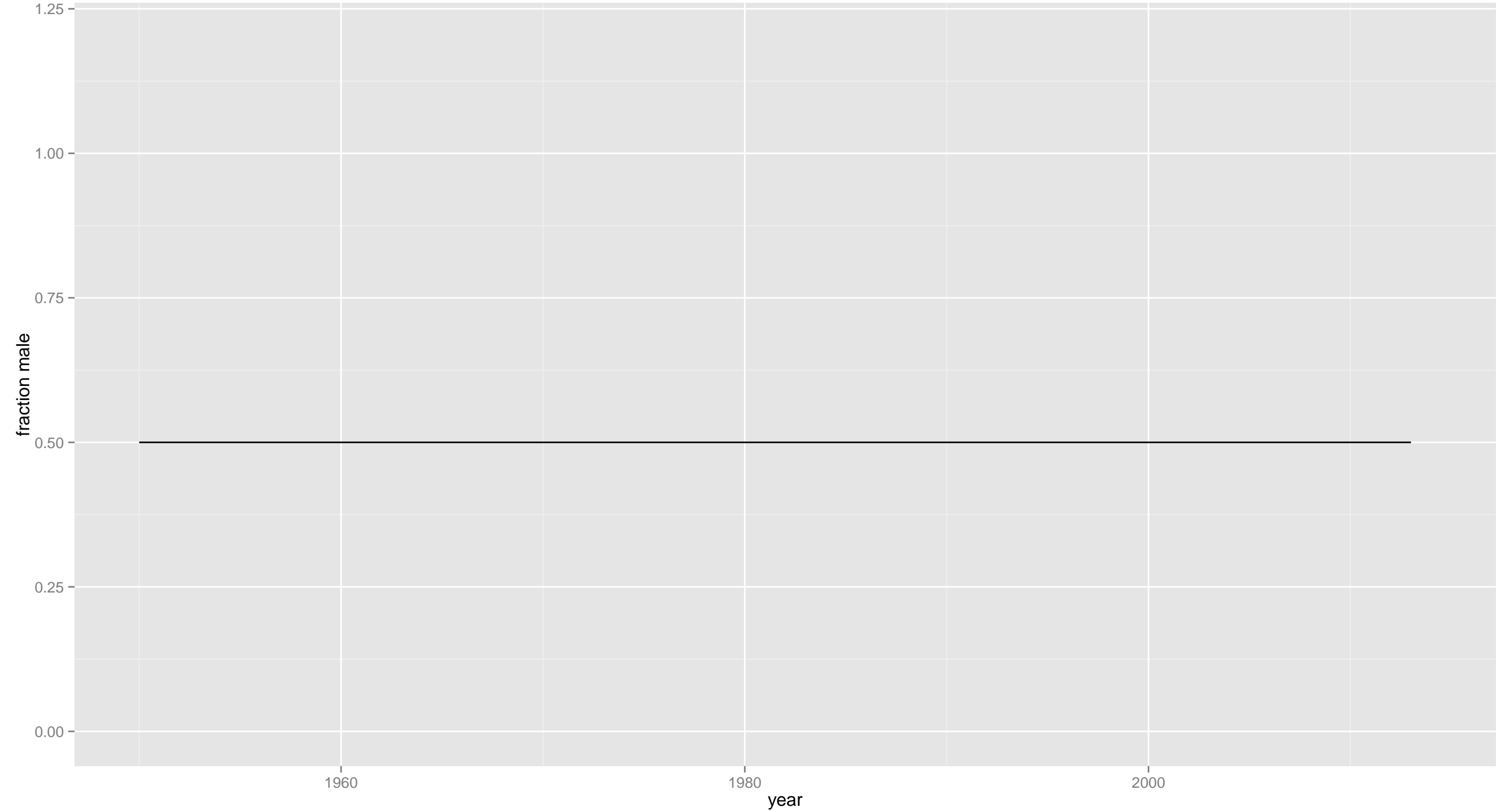
sex ratio

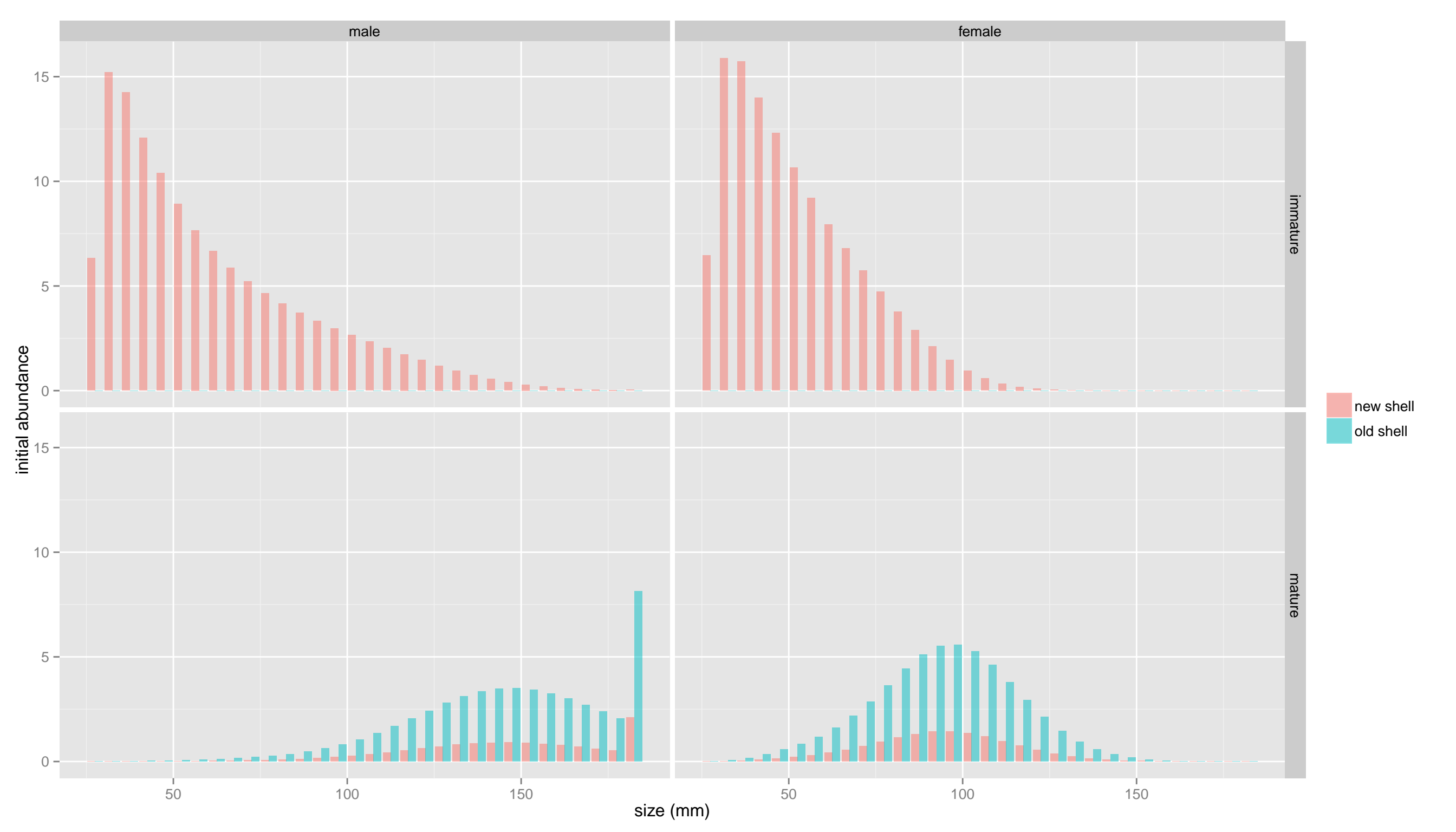


Recruitment (millions)



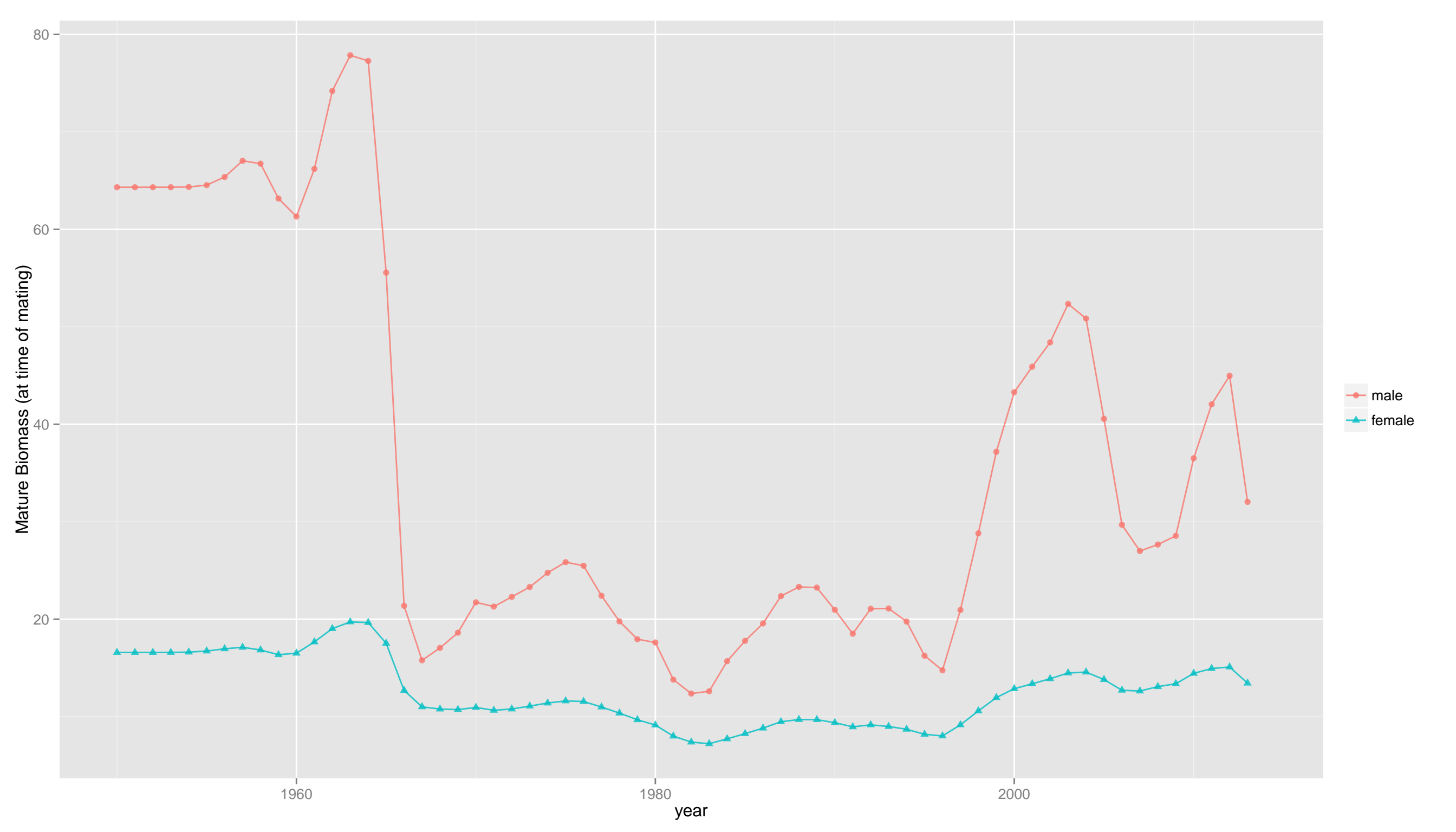
sex ratio



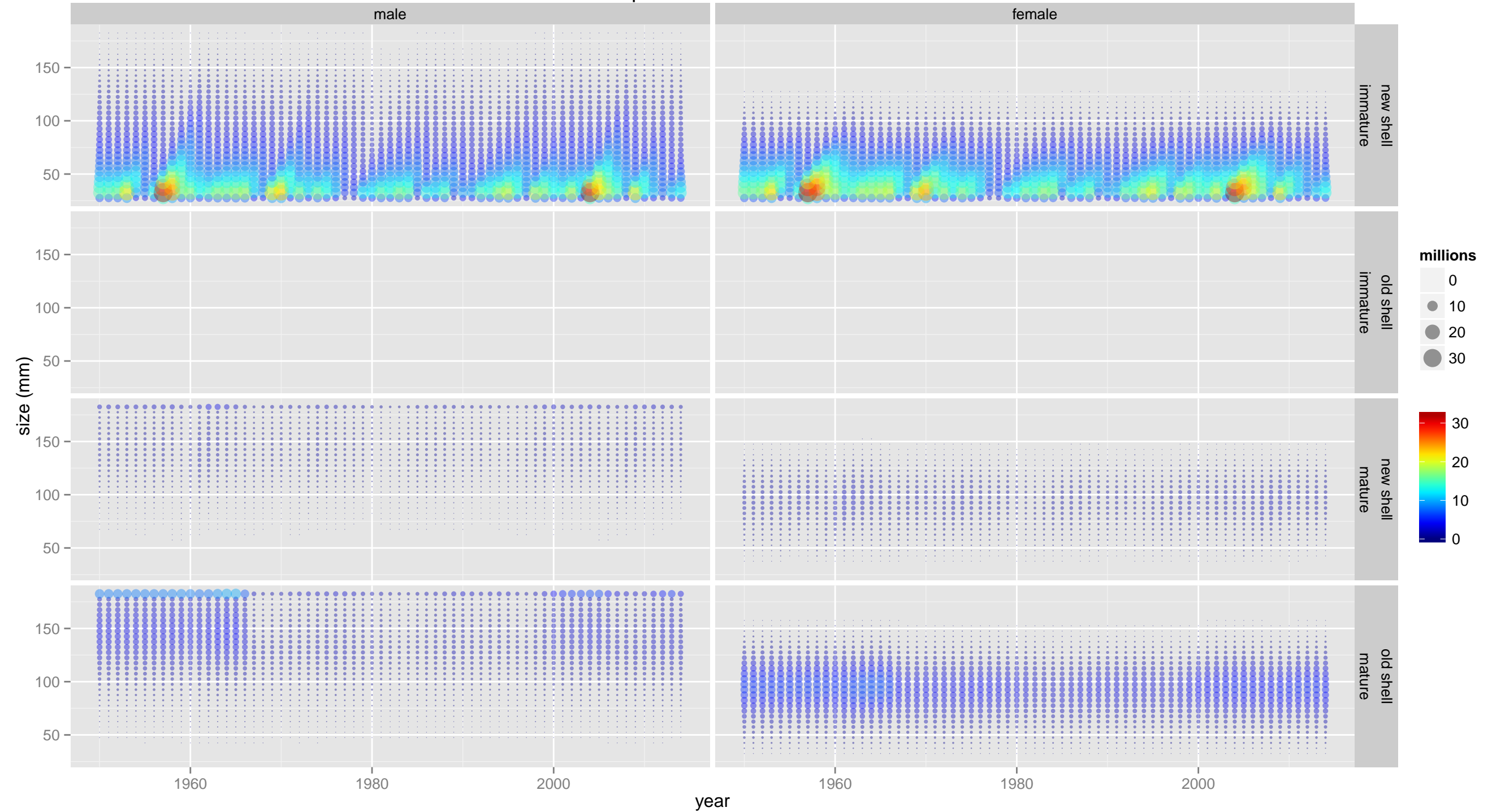


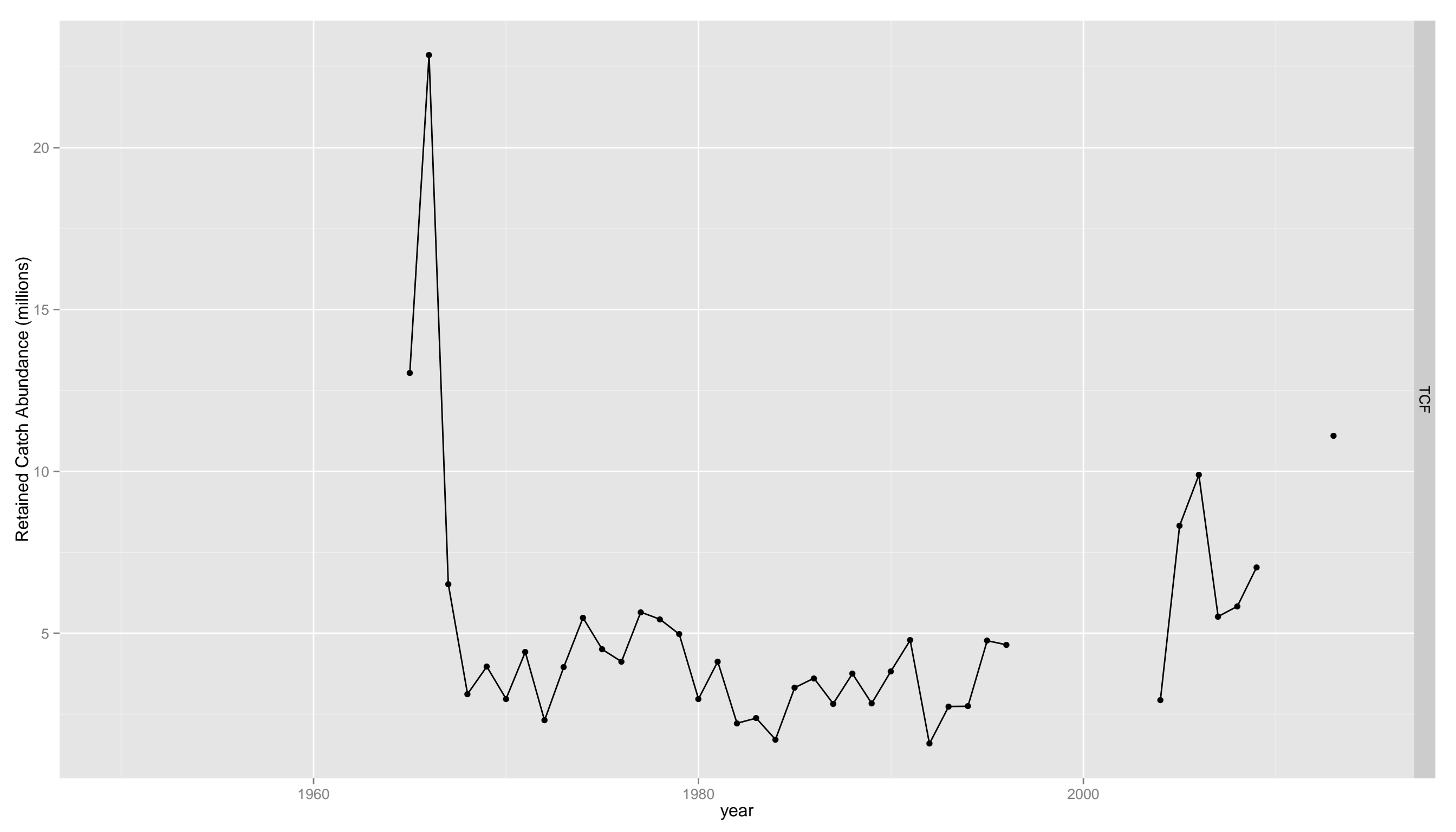




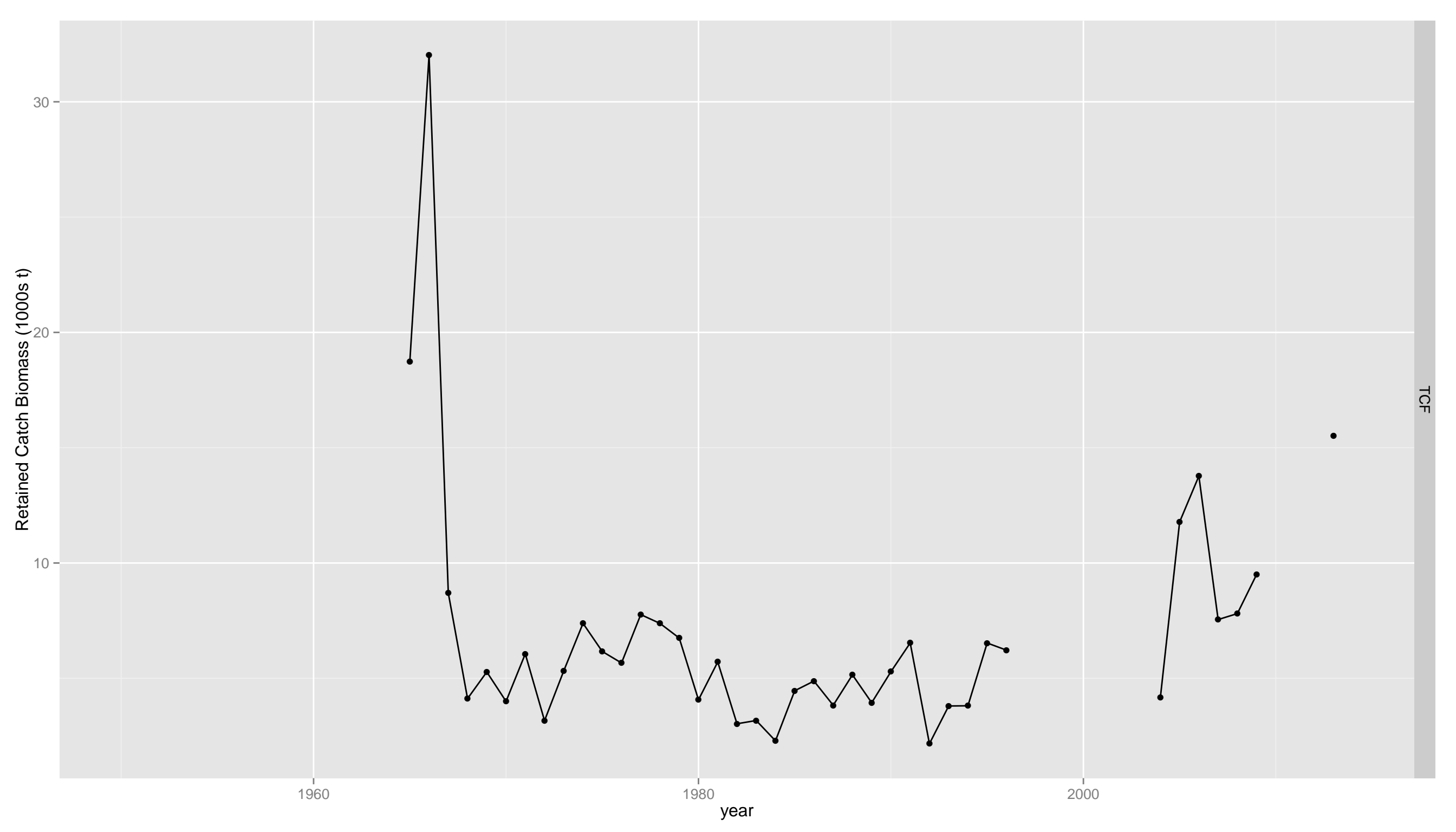


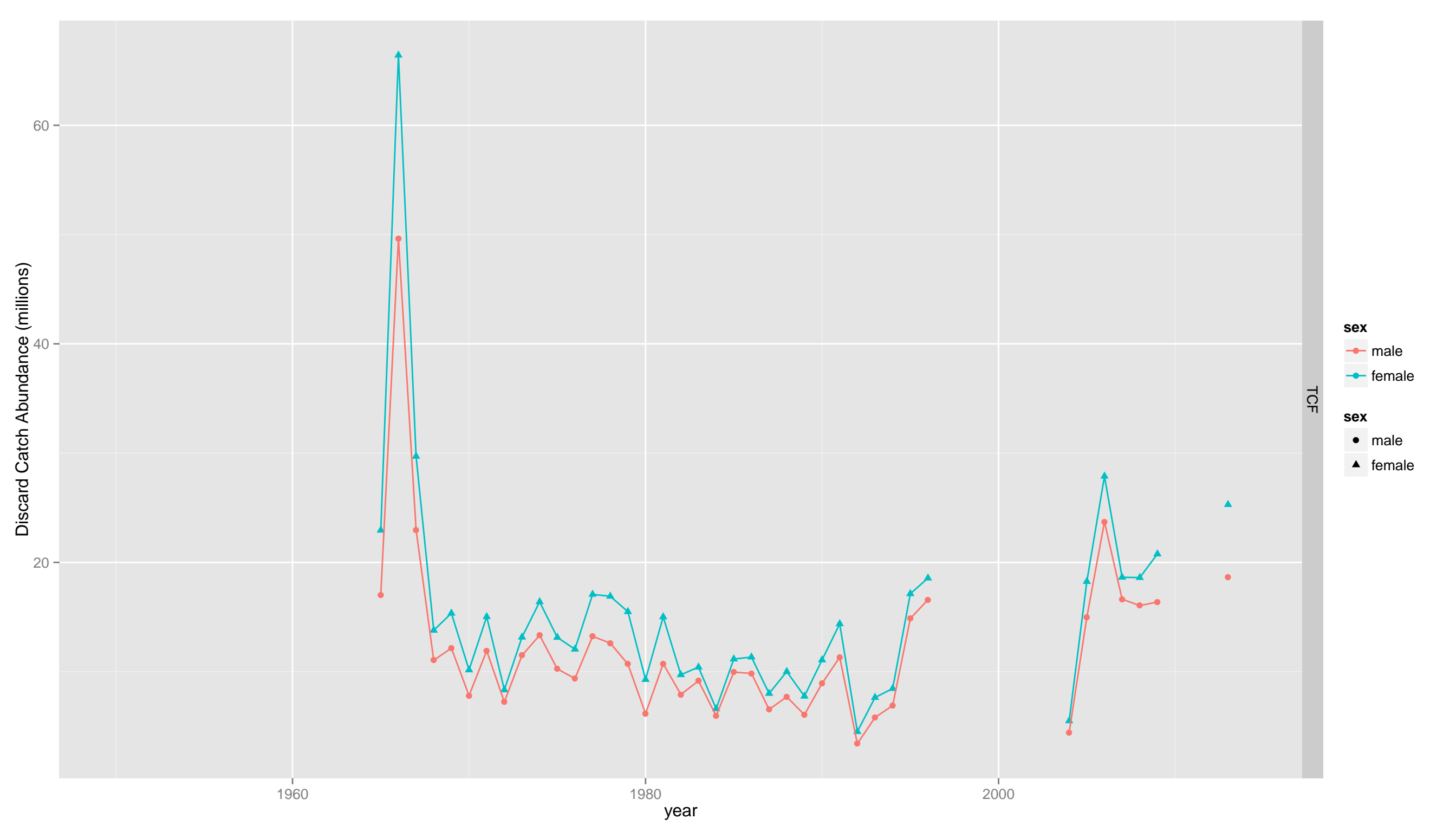
# Population Abundance

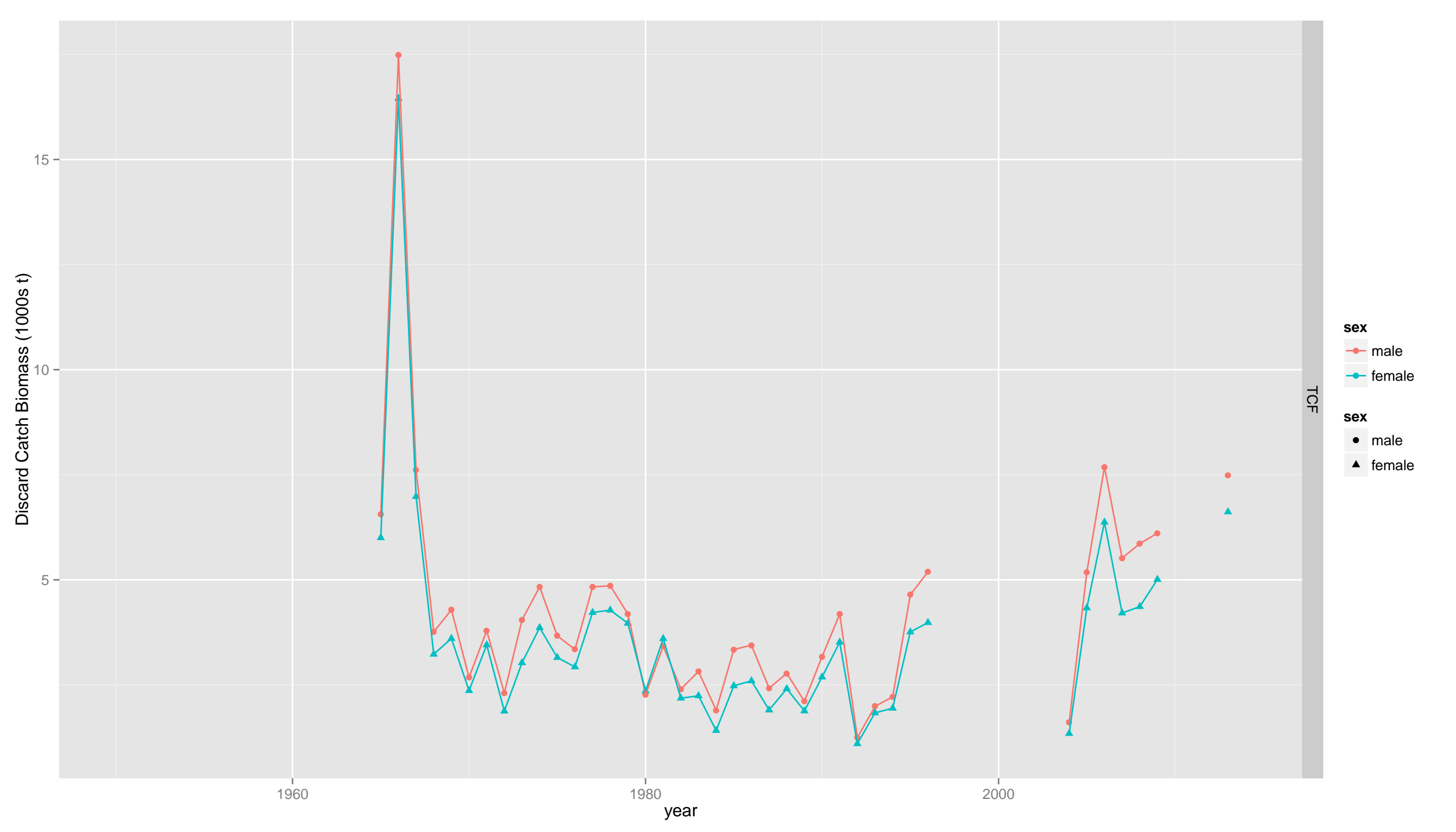




TCF



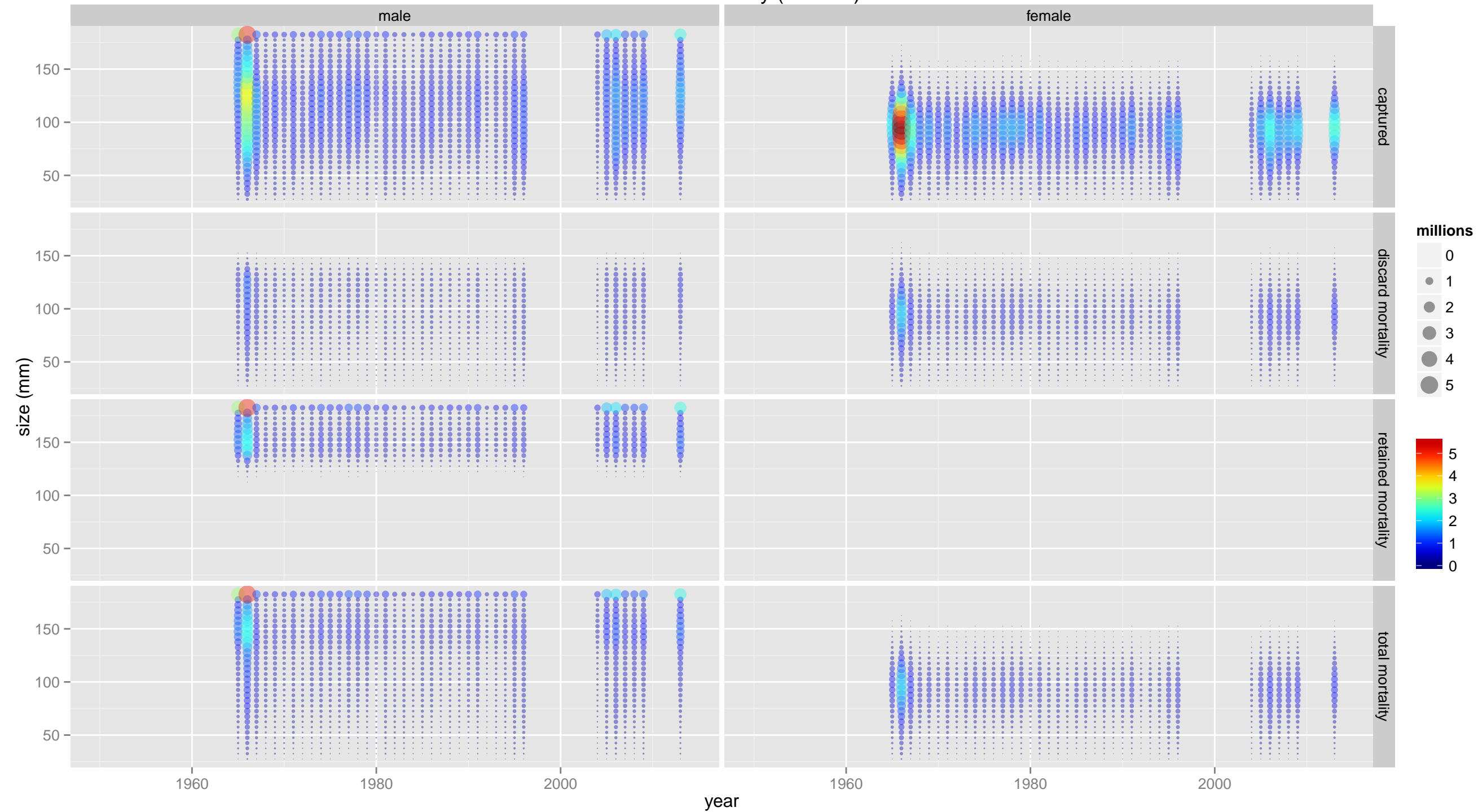


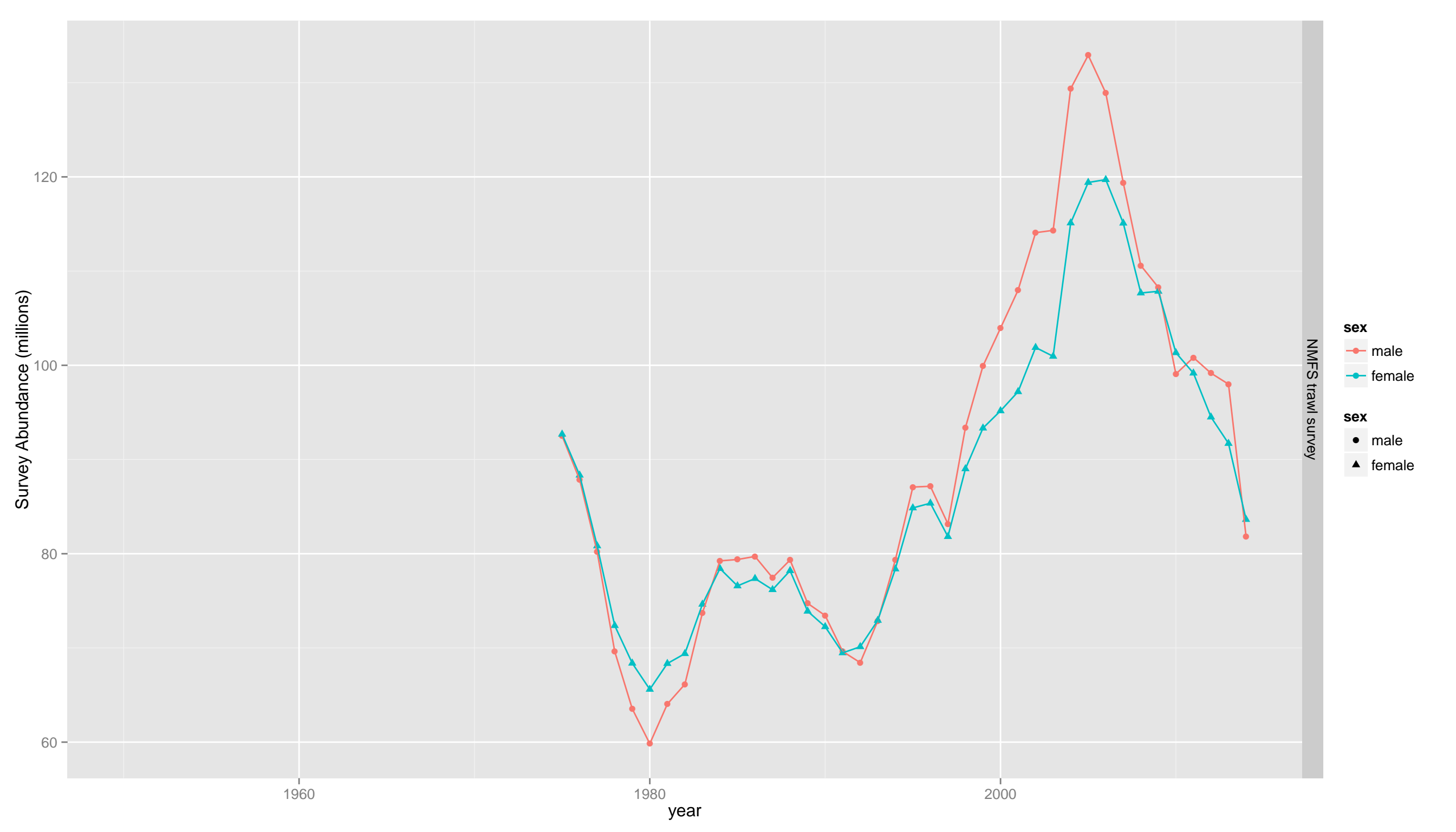


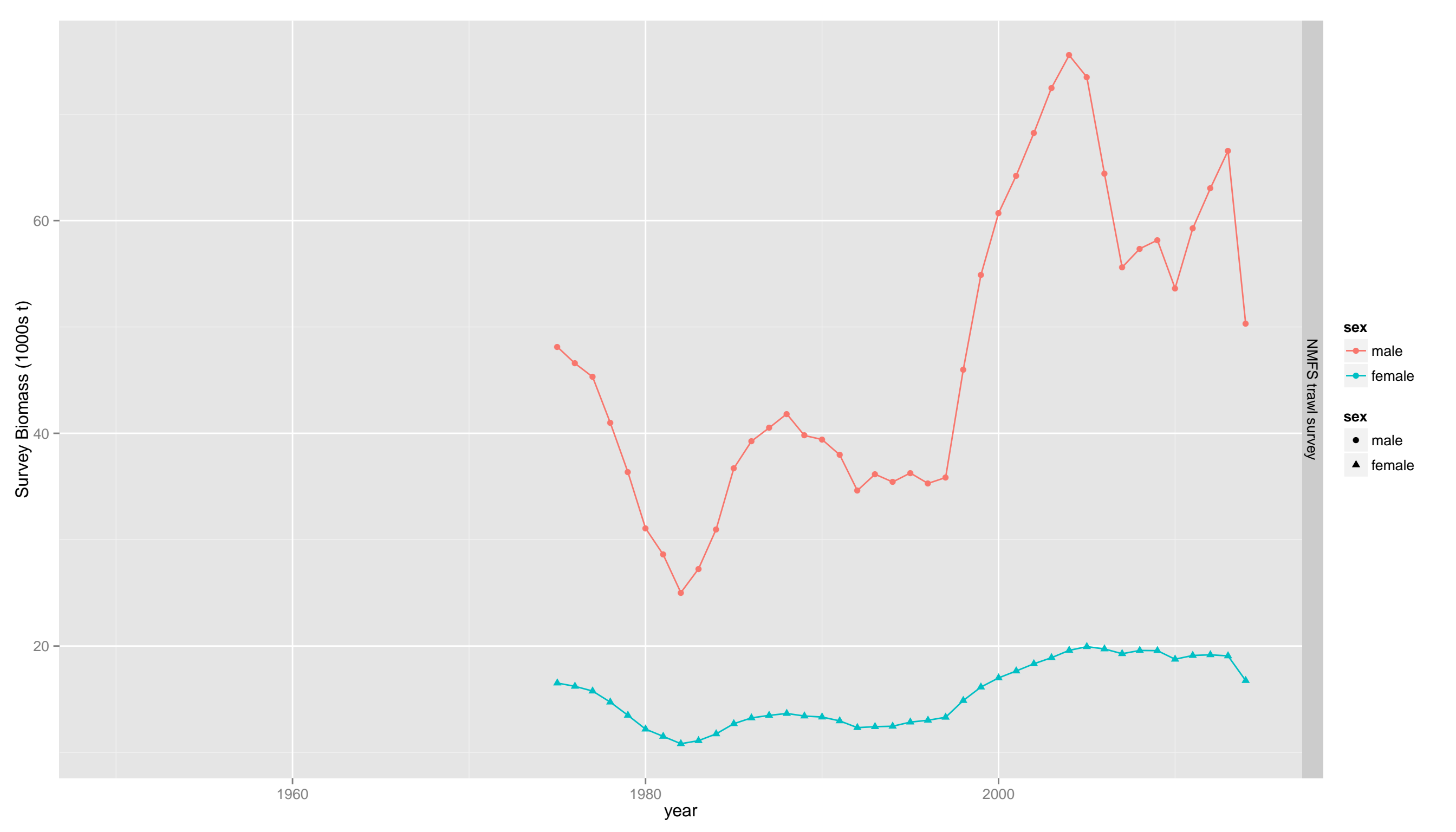




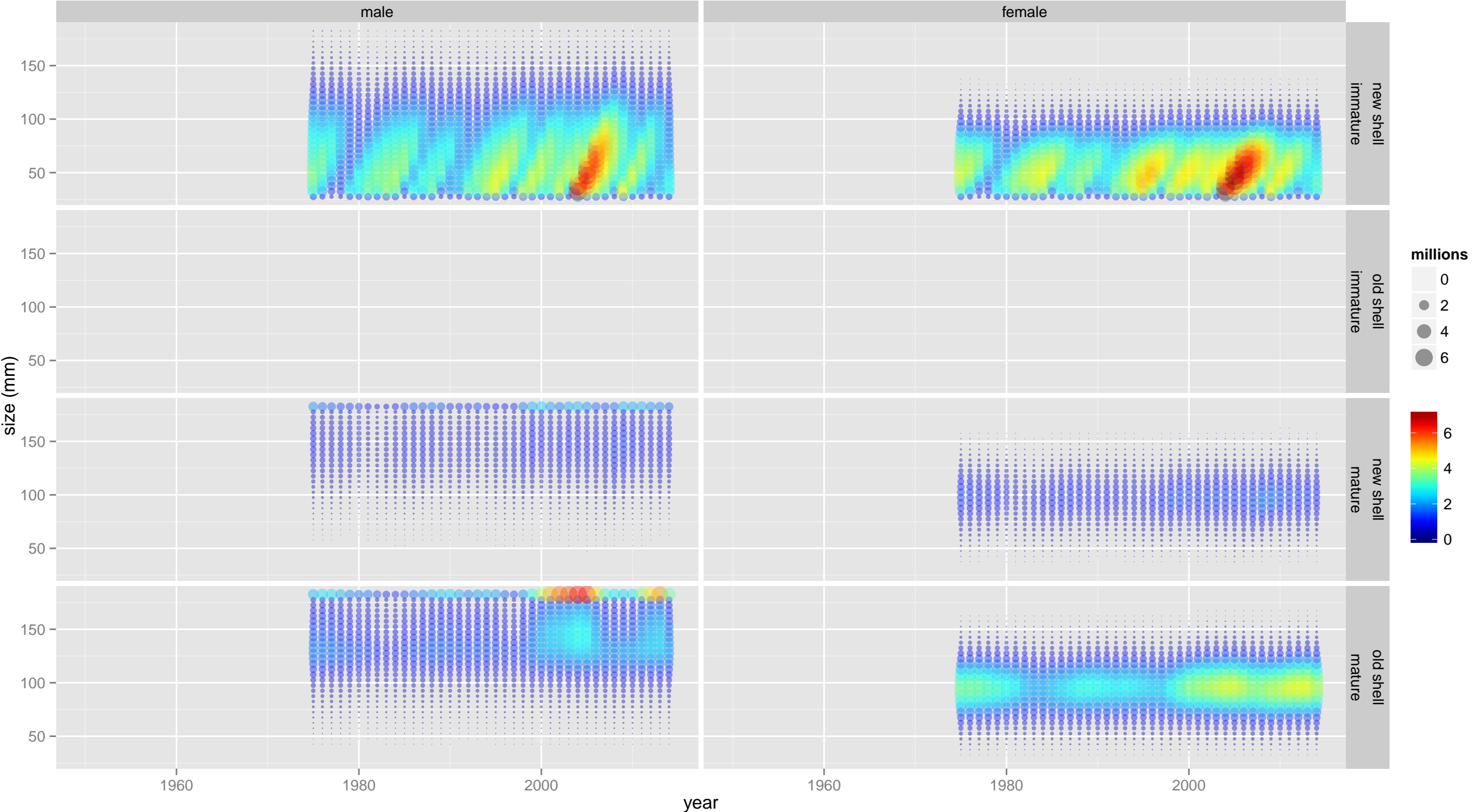
# TCF Catch/Mortality (millions)







# NMFS trawl survey Survey Abundance



# Size Compositions

