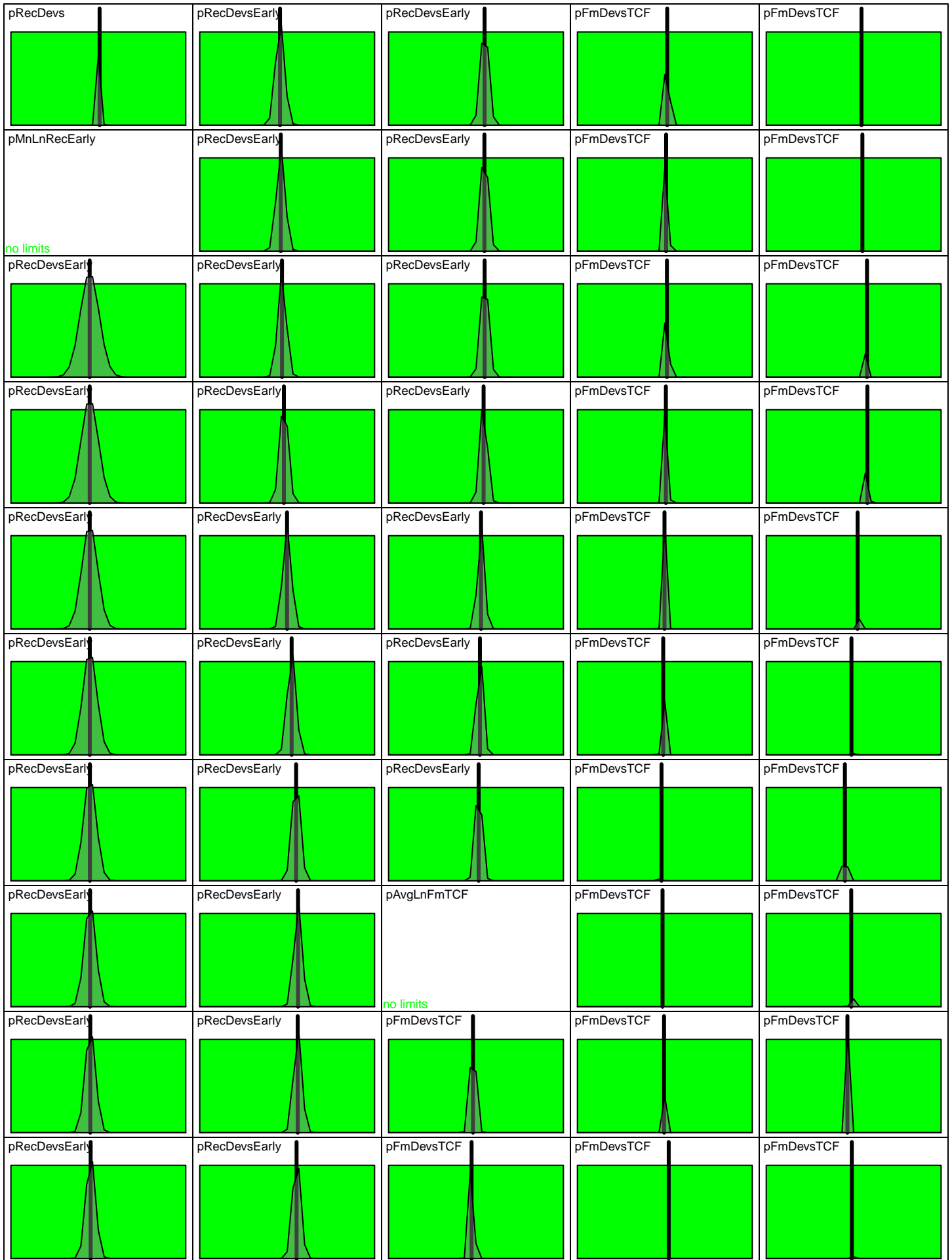
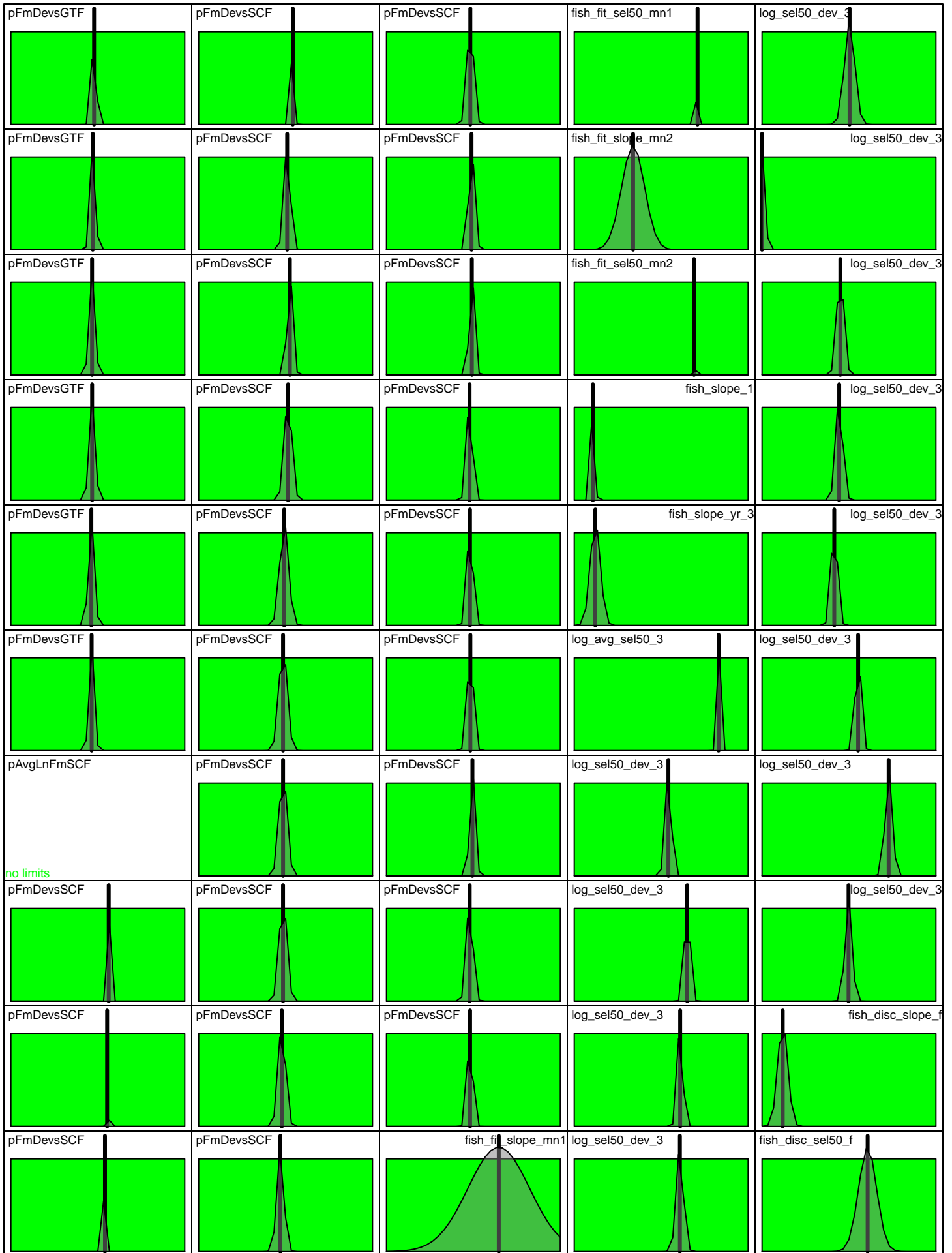
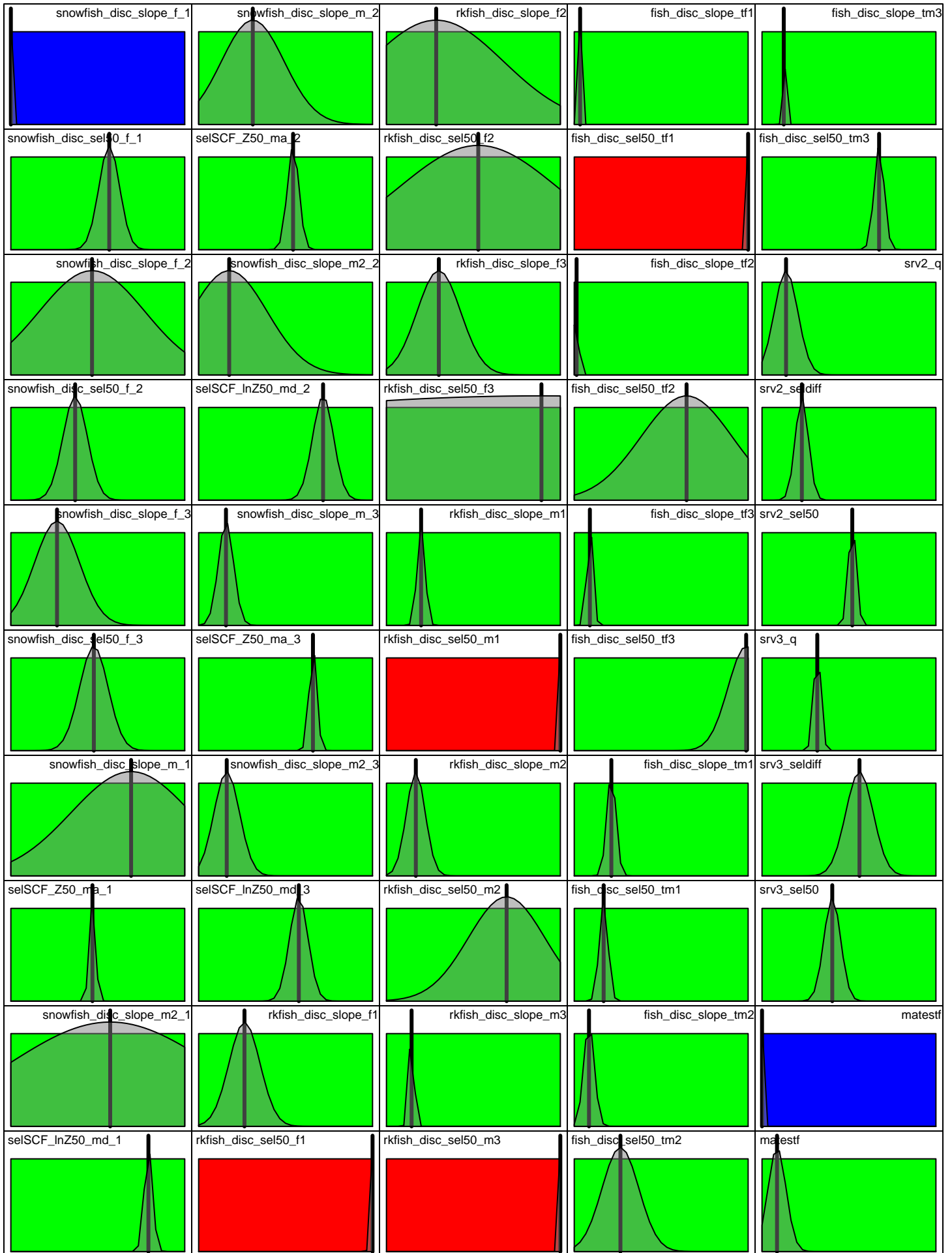
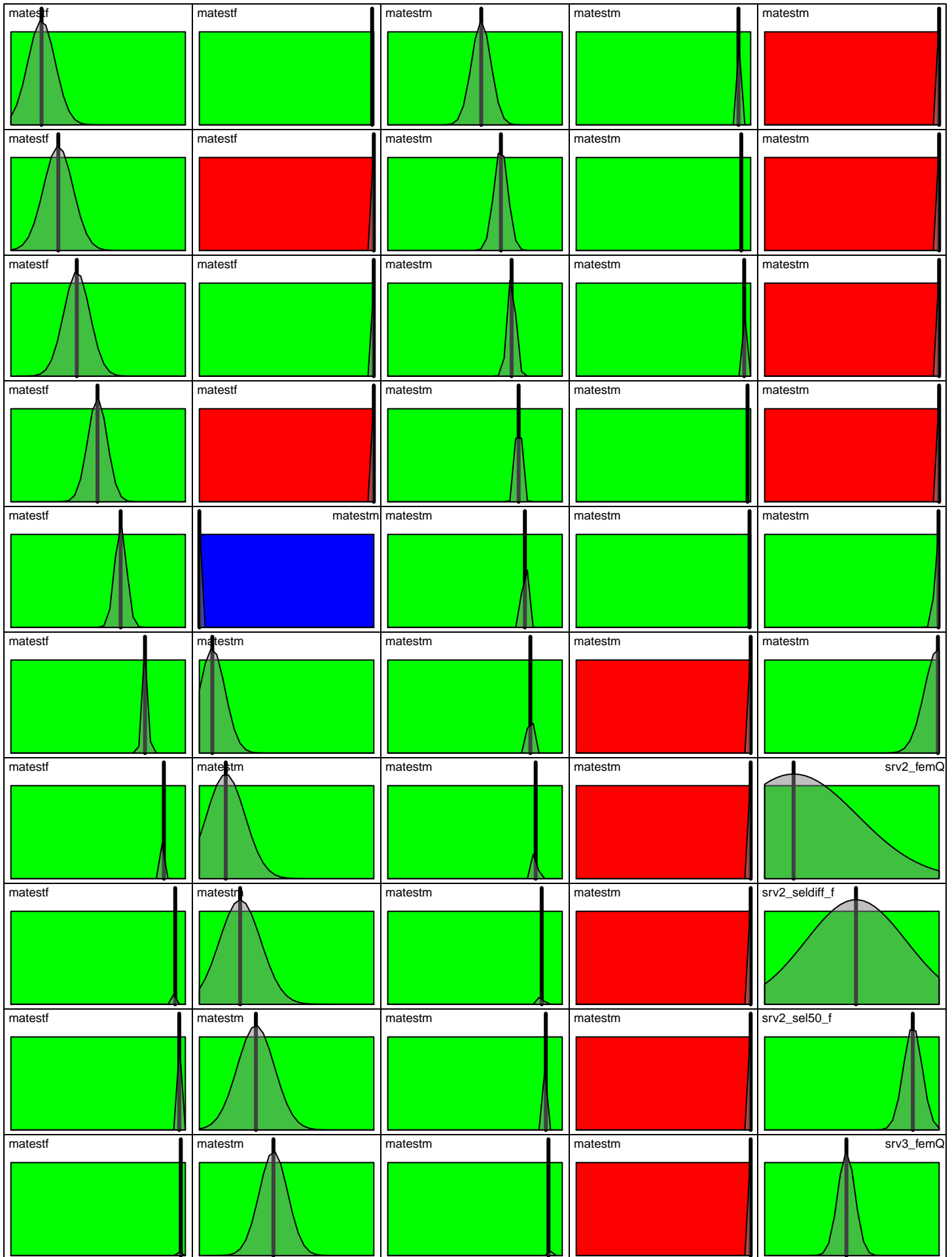


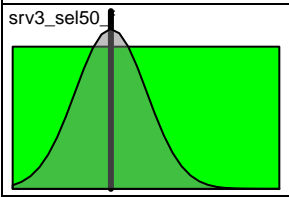
no limits



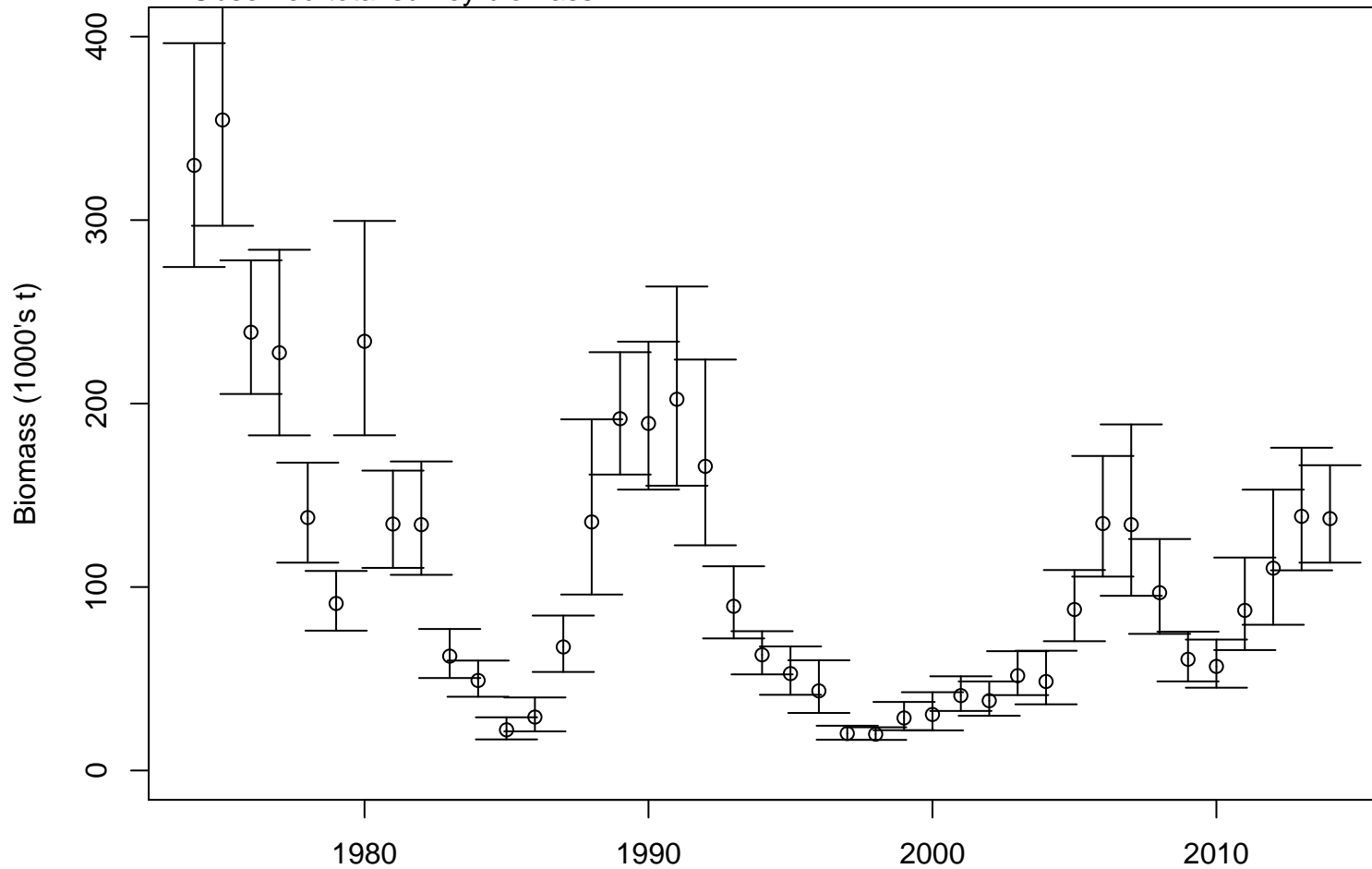




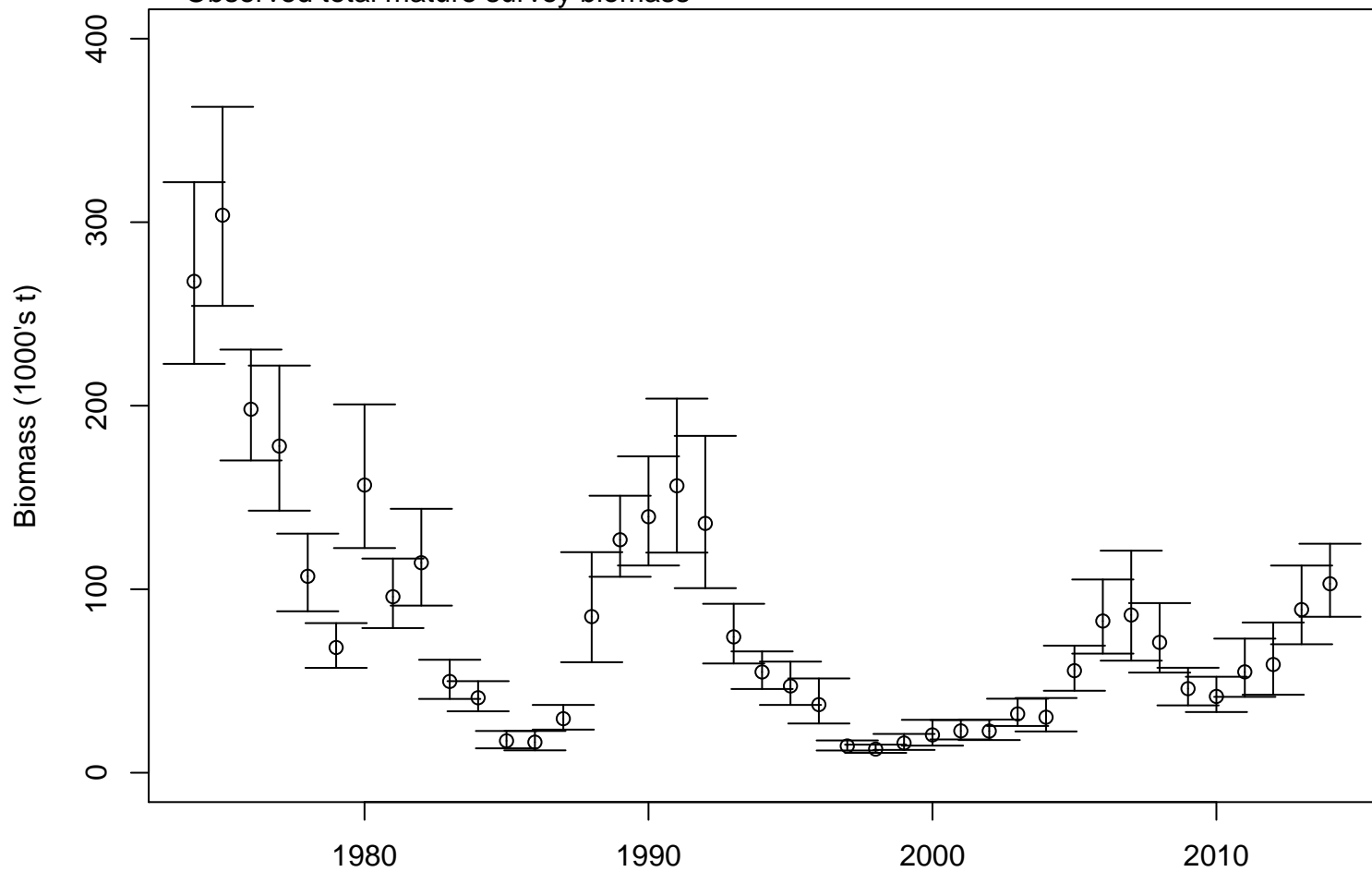




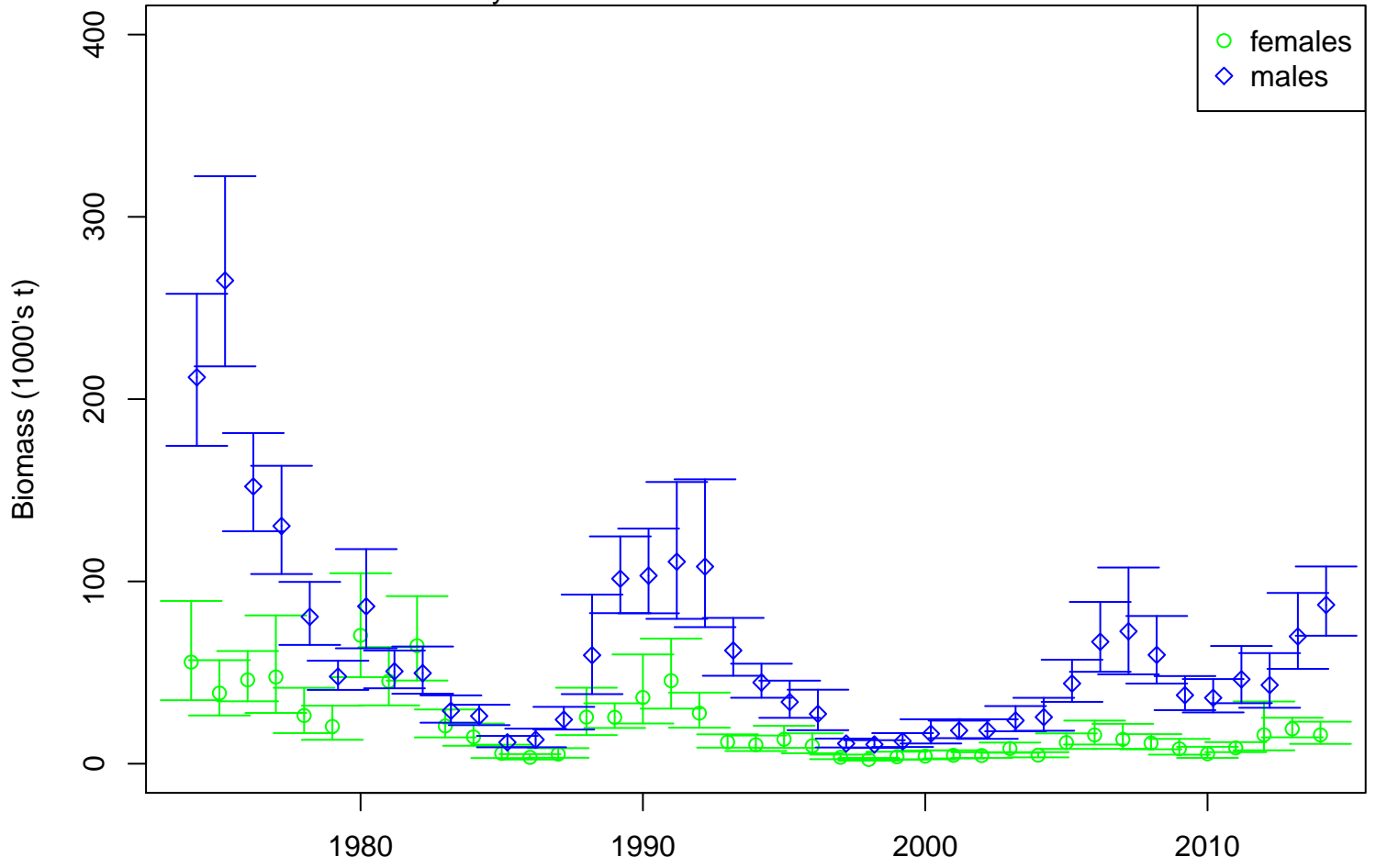
Observed total survey biomass



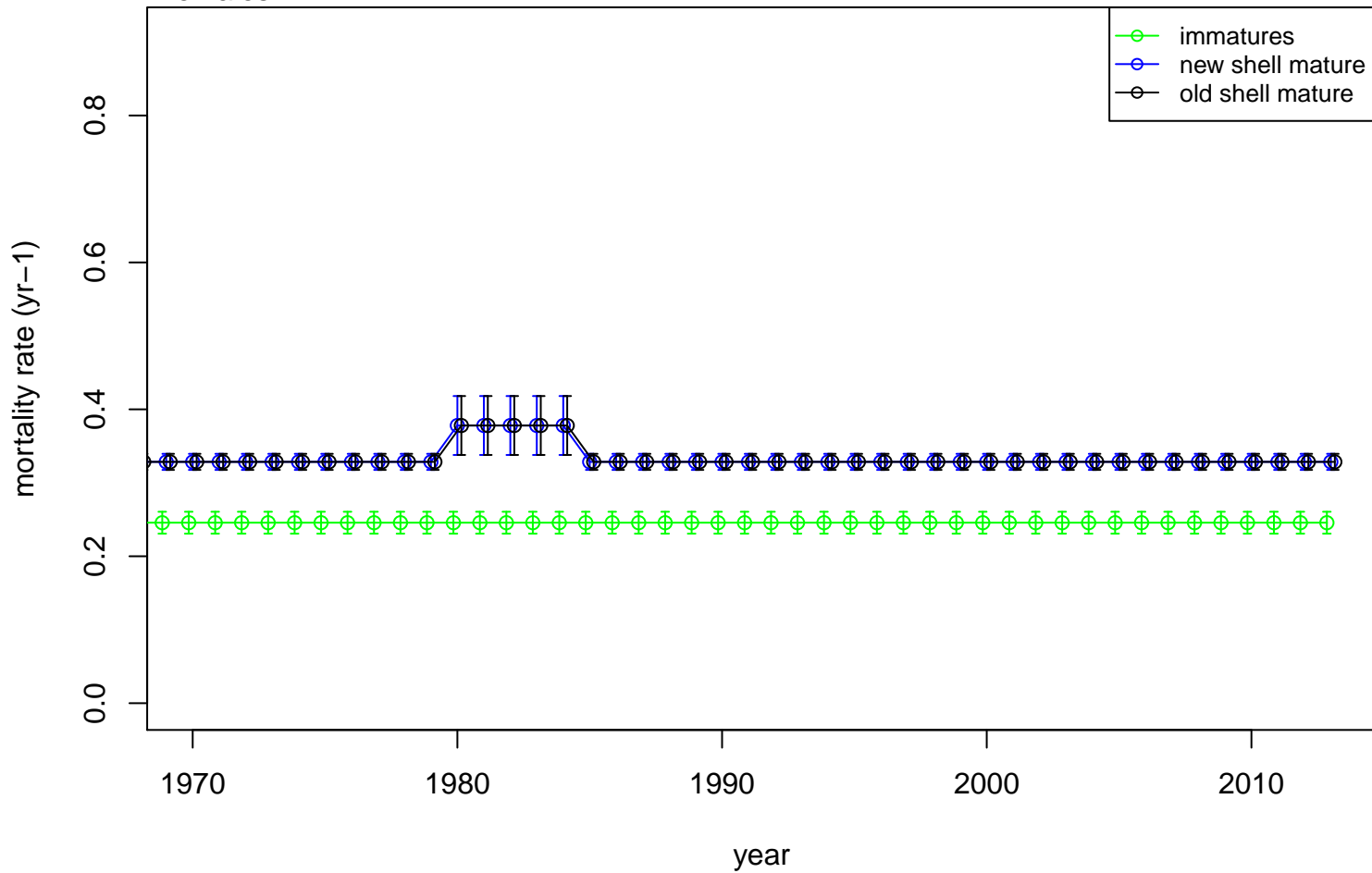
Observed total mature survey biomass



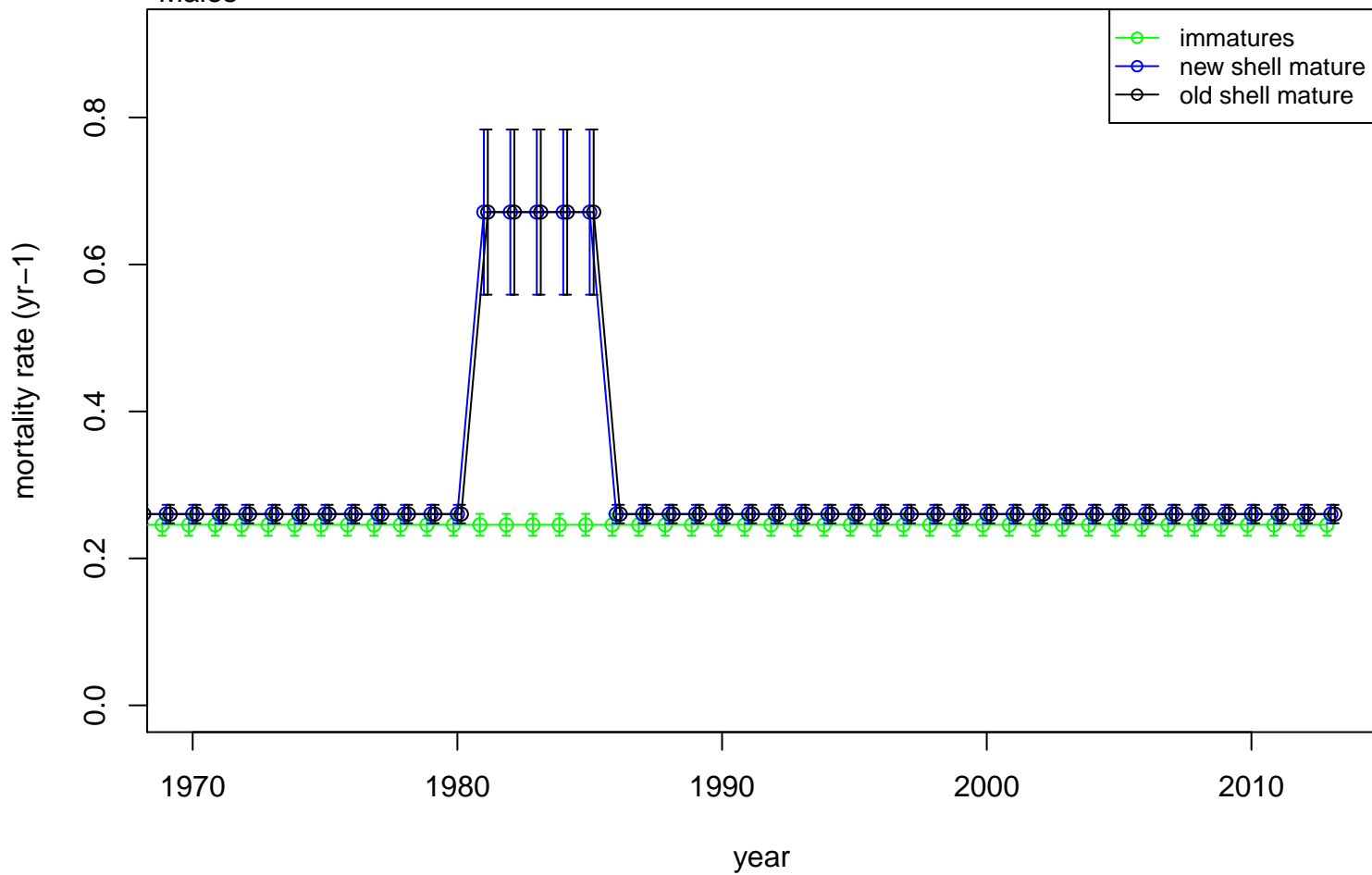
Observed mature survey biomass



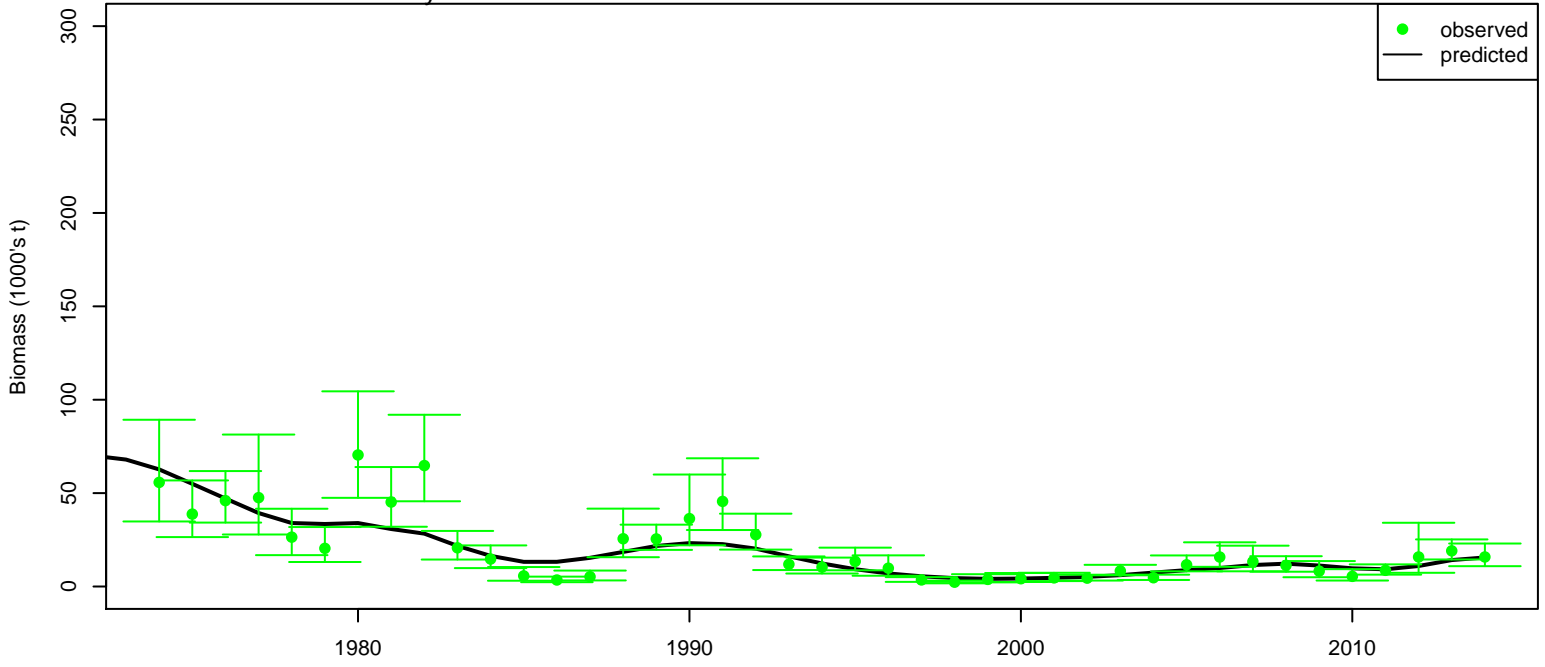
Females



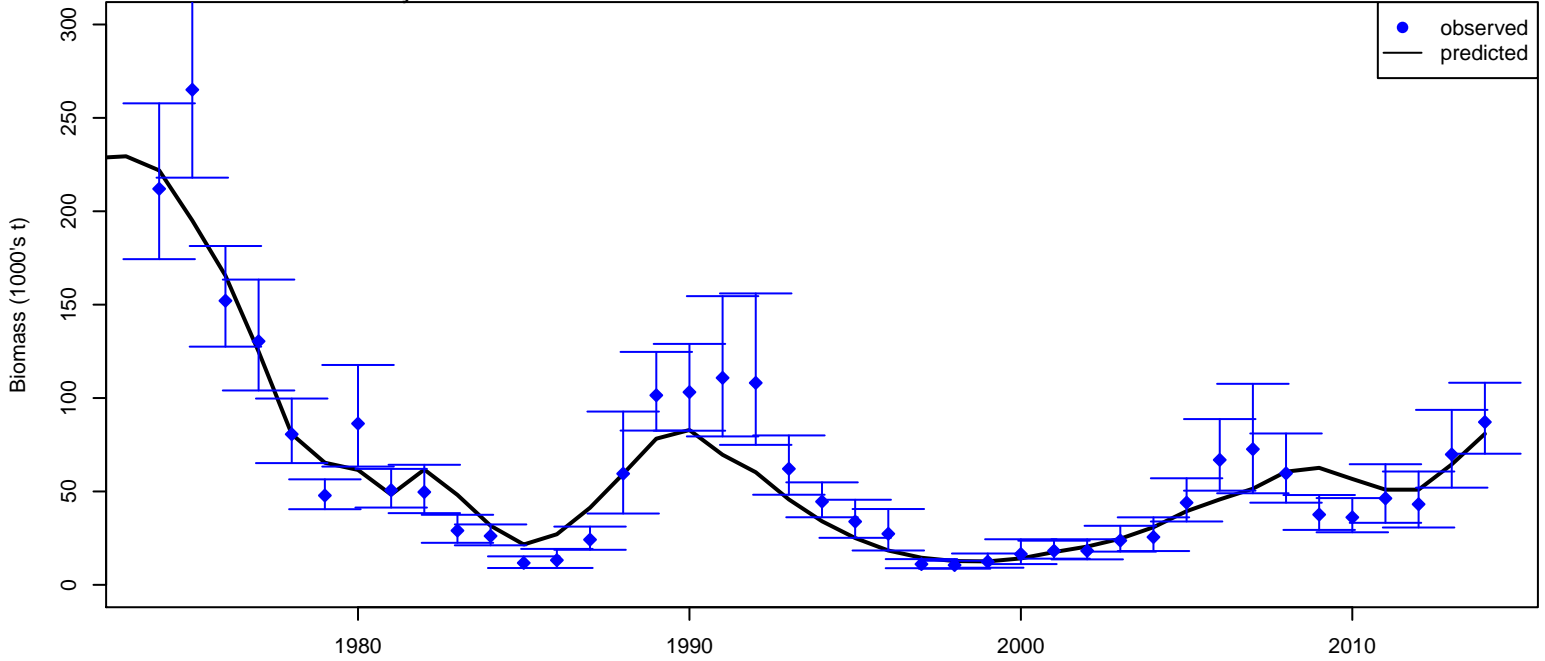
Males



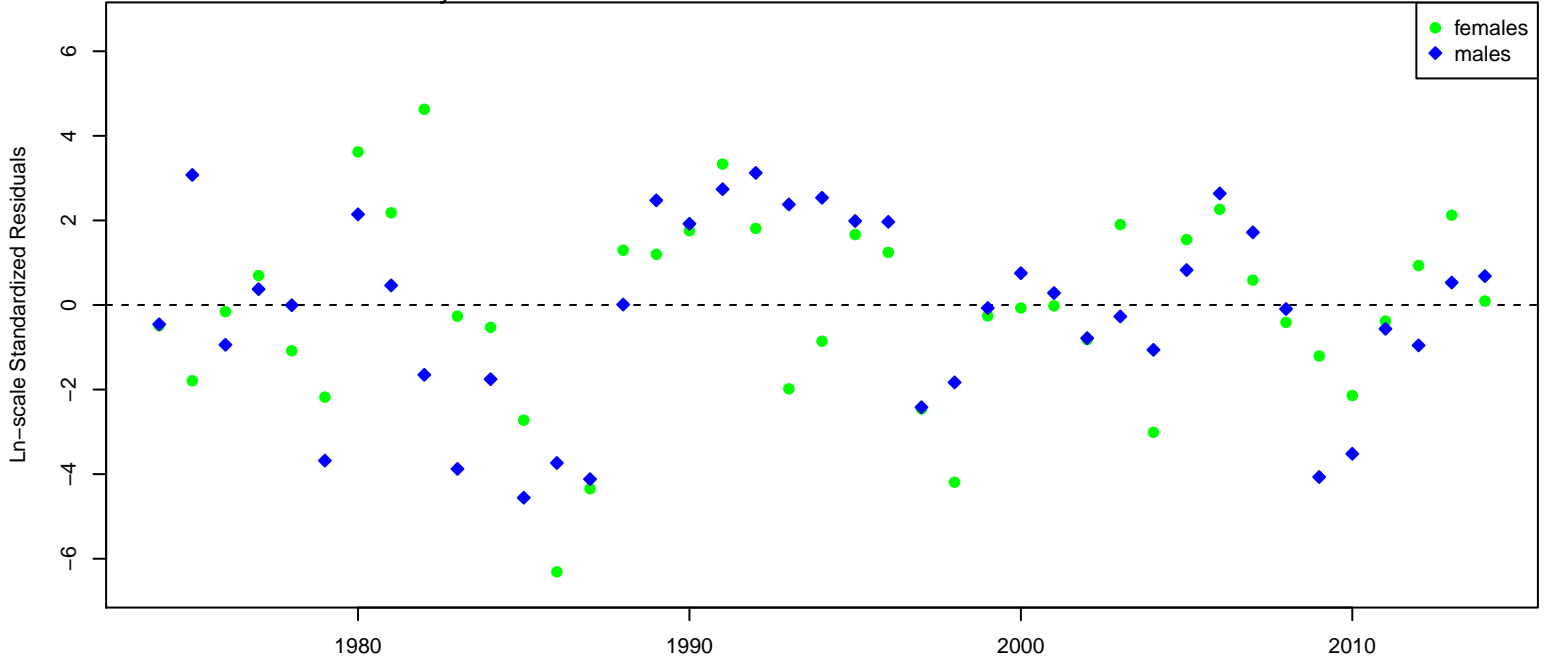
Mature female survey biomass



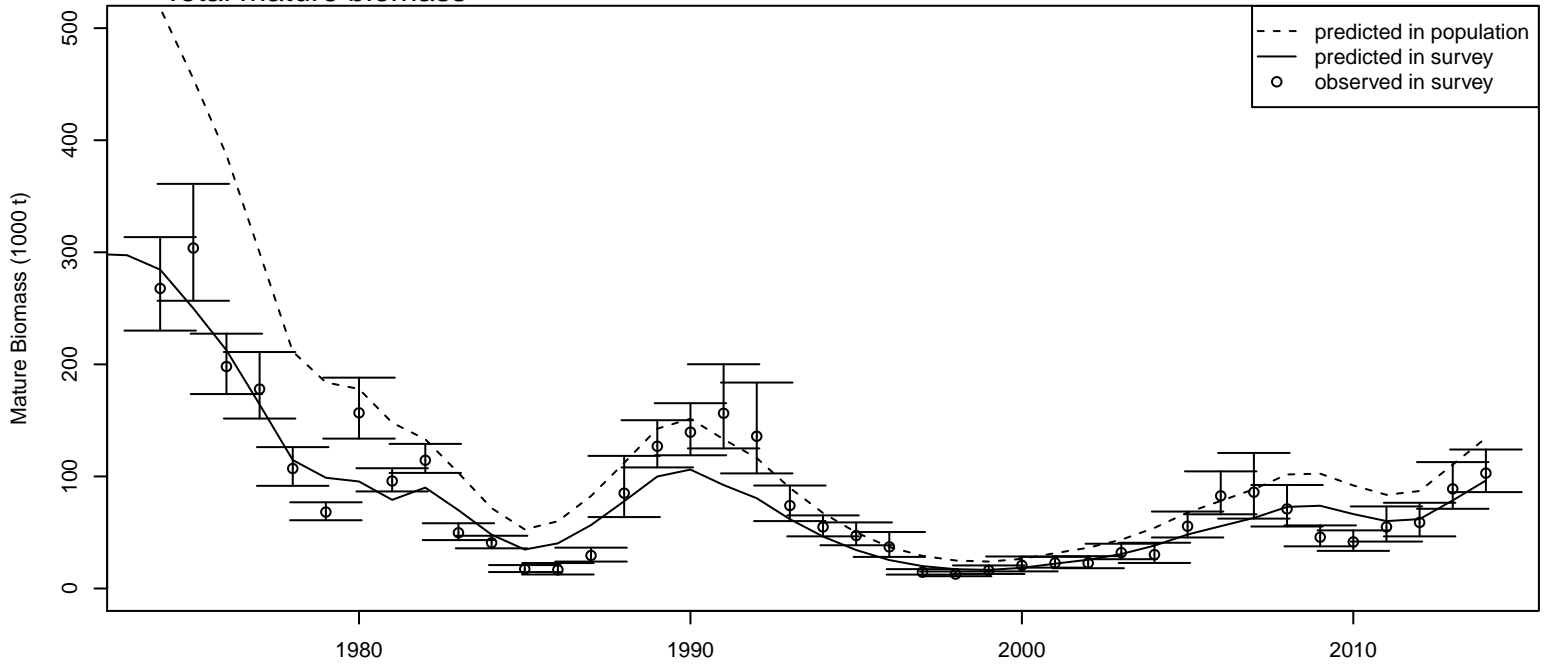
Mature male survey biomass



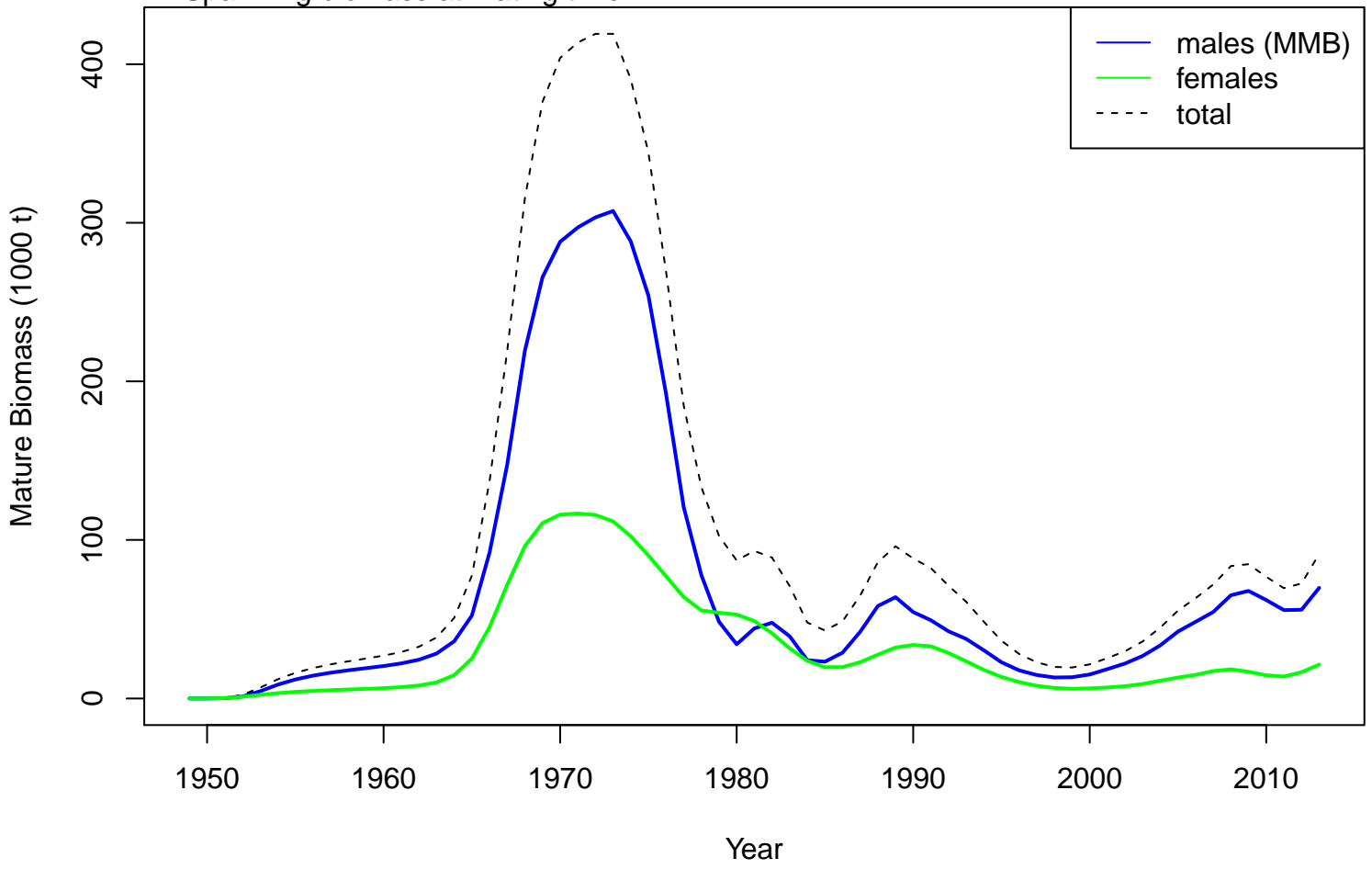
Fits to mature survey biomass



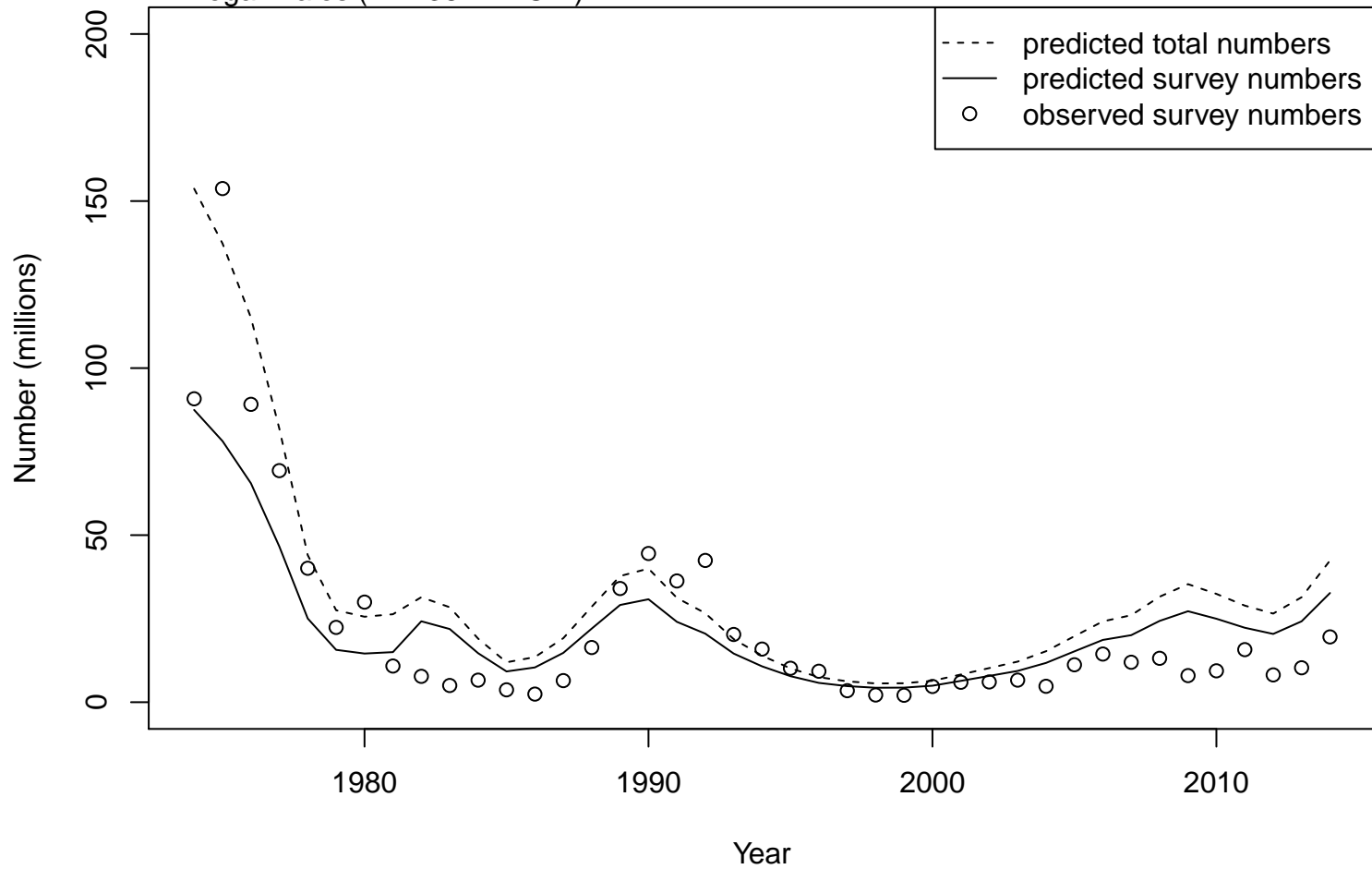
Total mature biomass



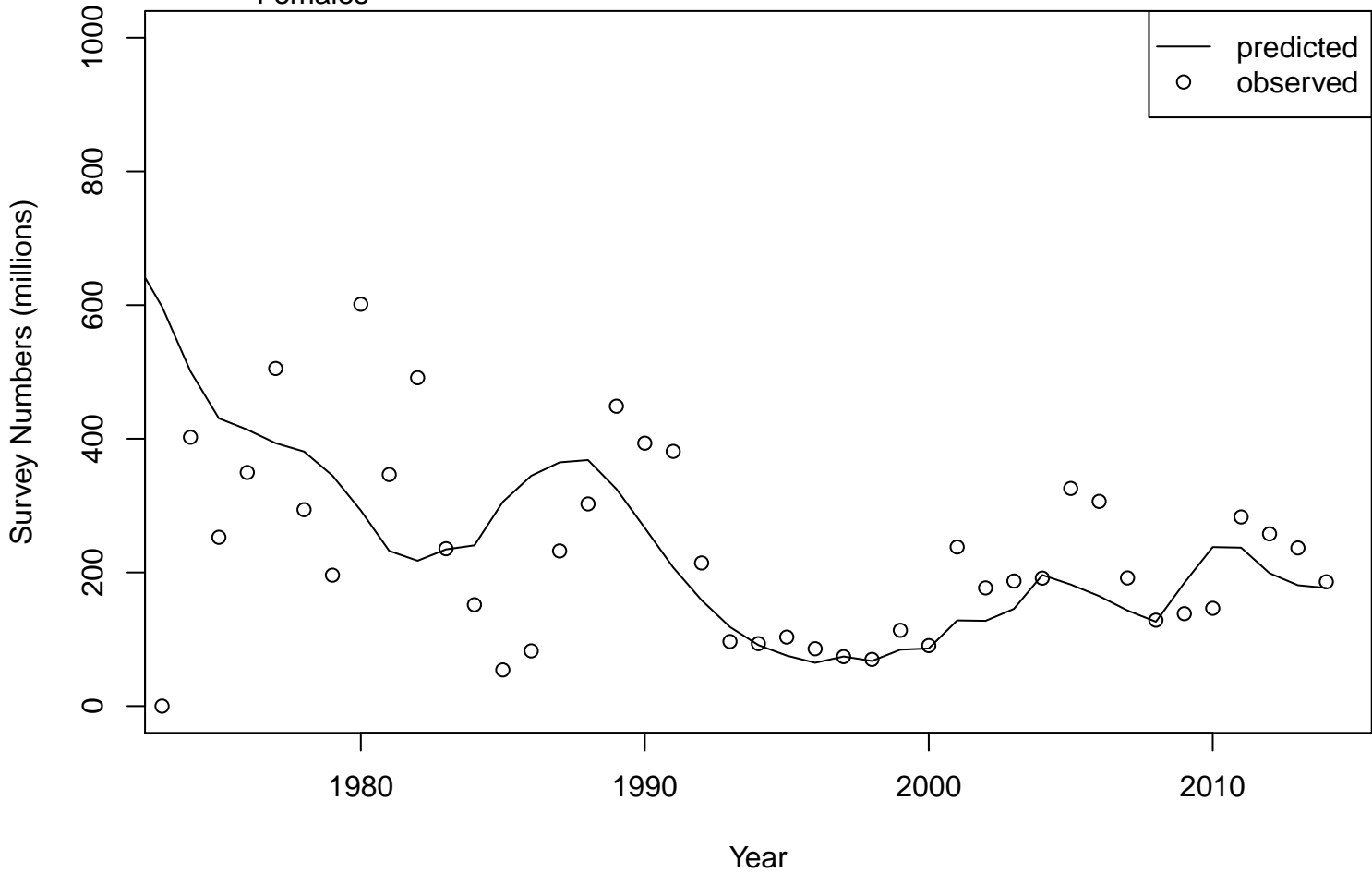
Spawning biomass at mating time



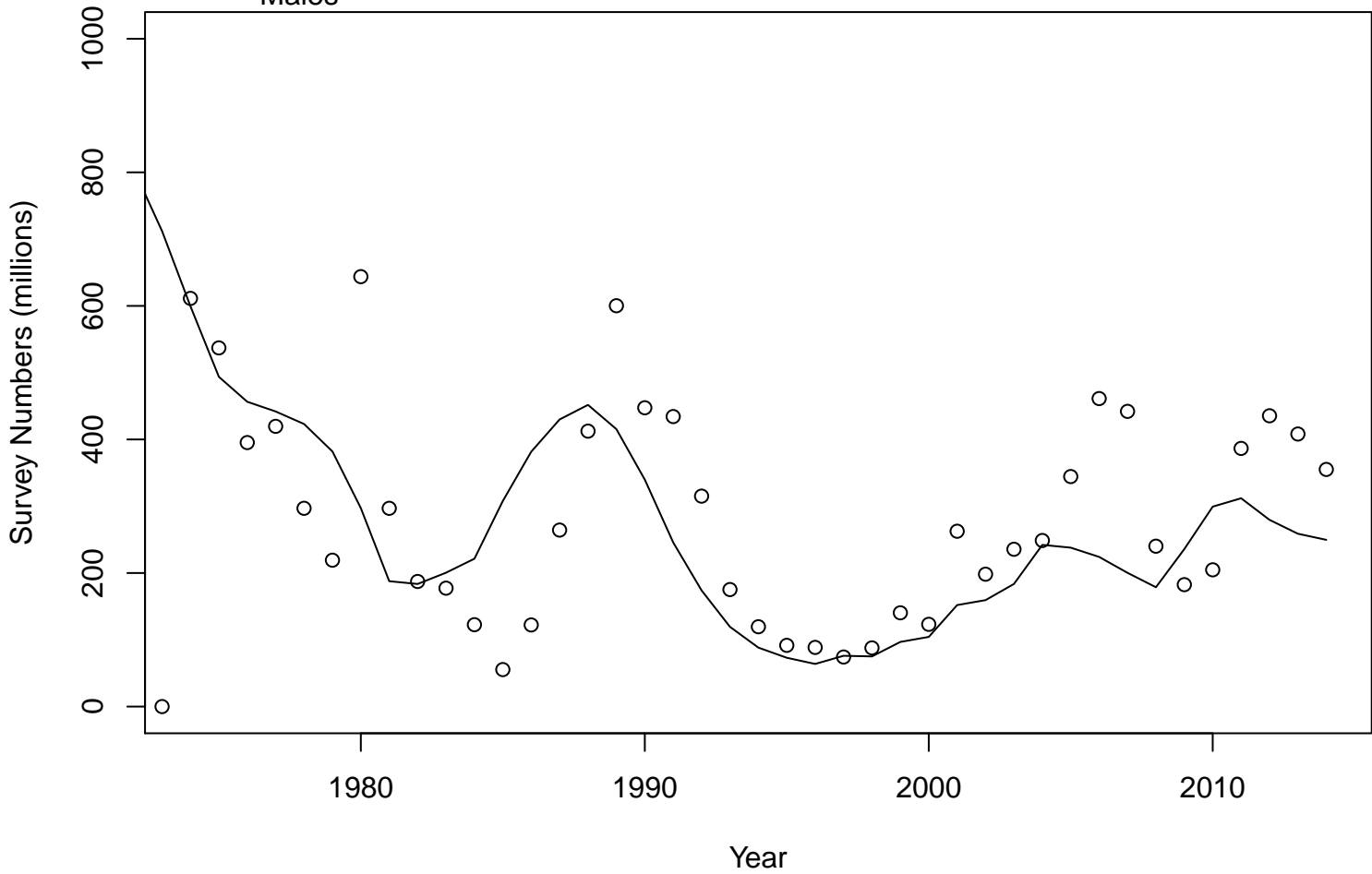
Legal males (≥ 138 mm CW)



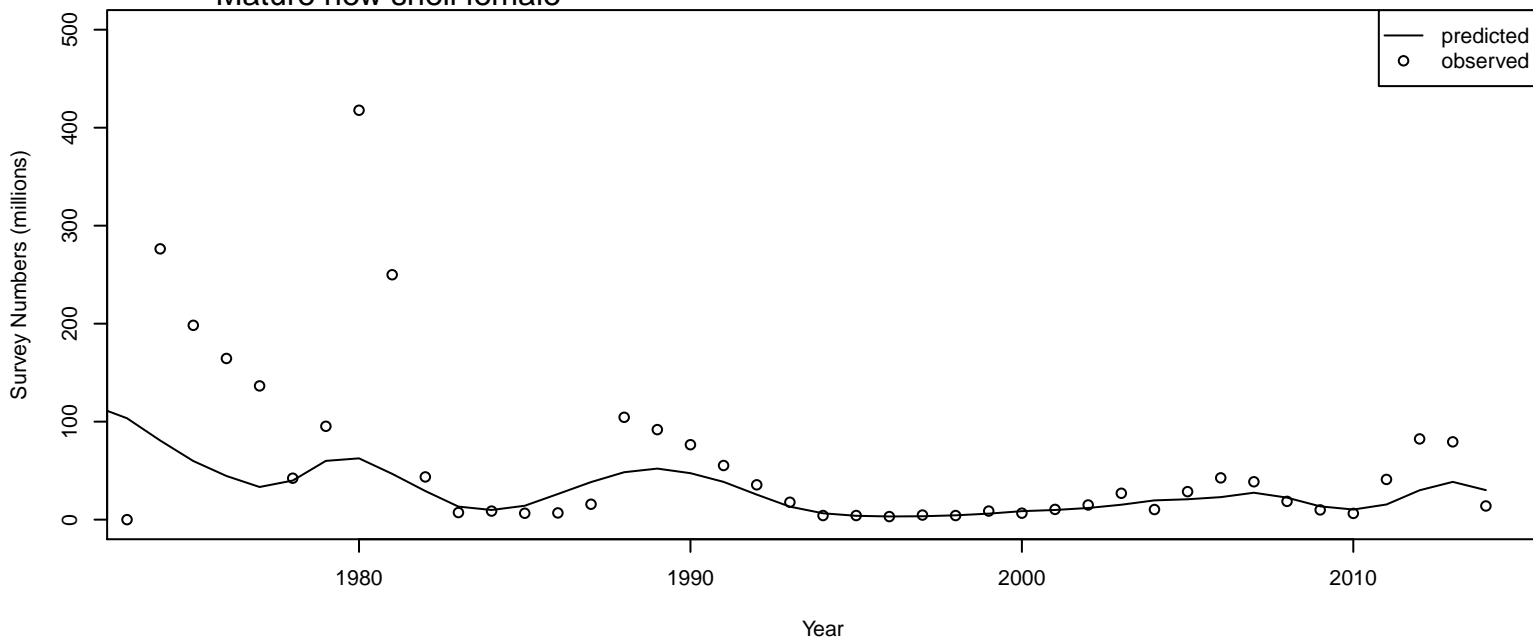
Females



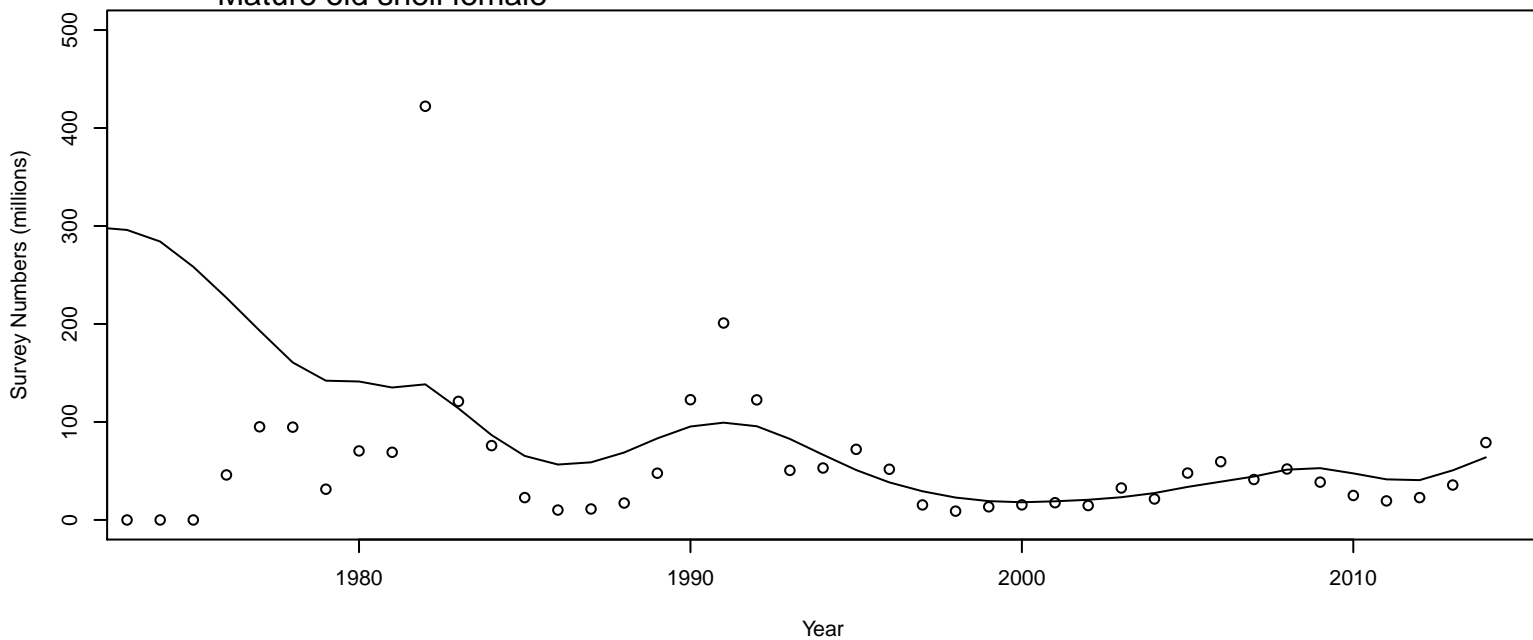
Males



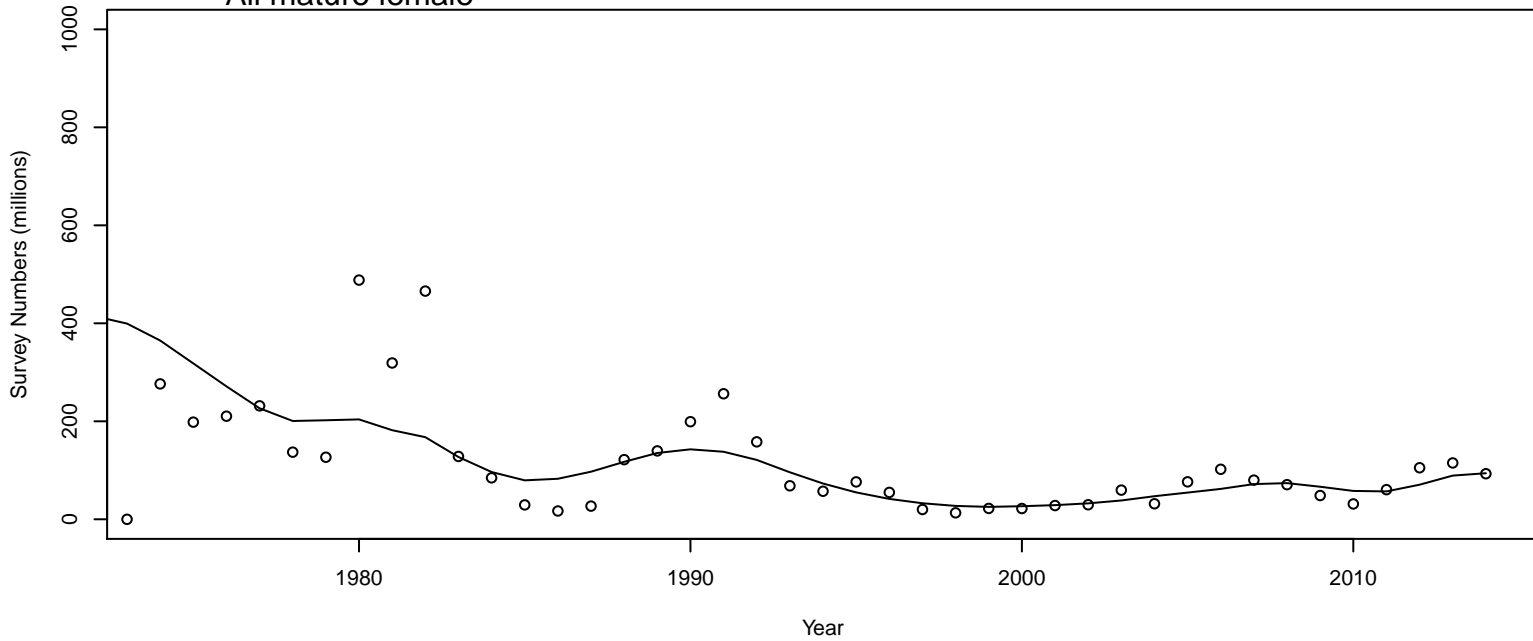
Mature new shell female



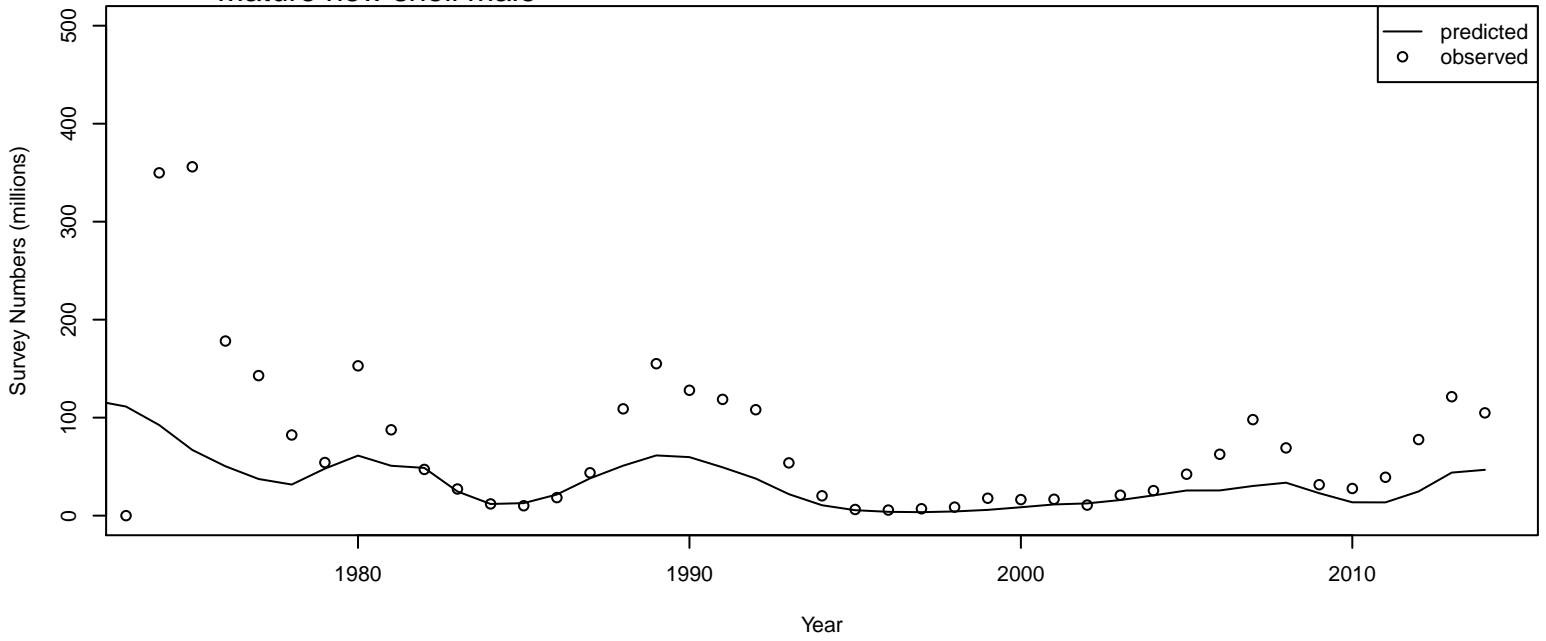
Mature old shell female



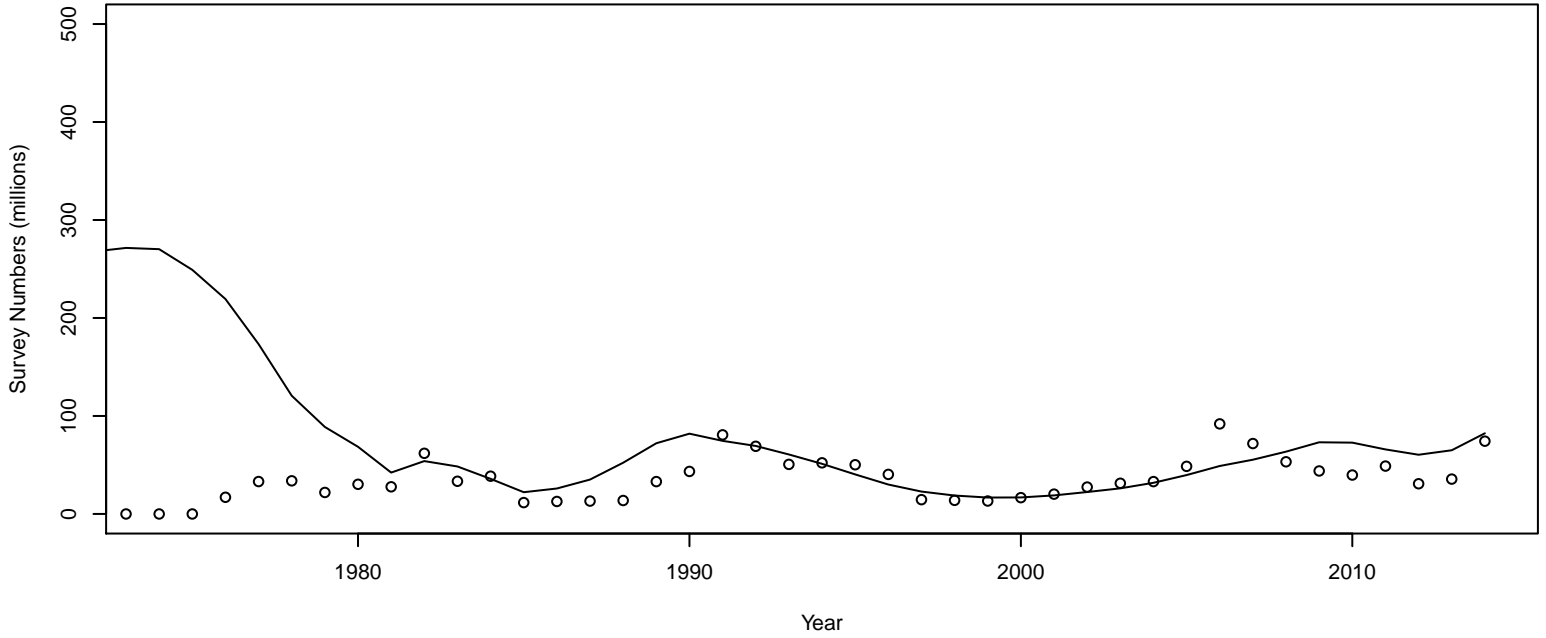
All mature female



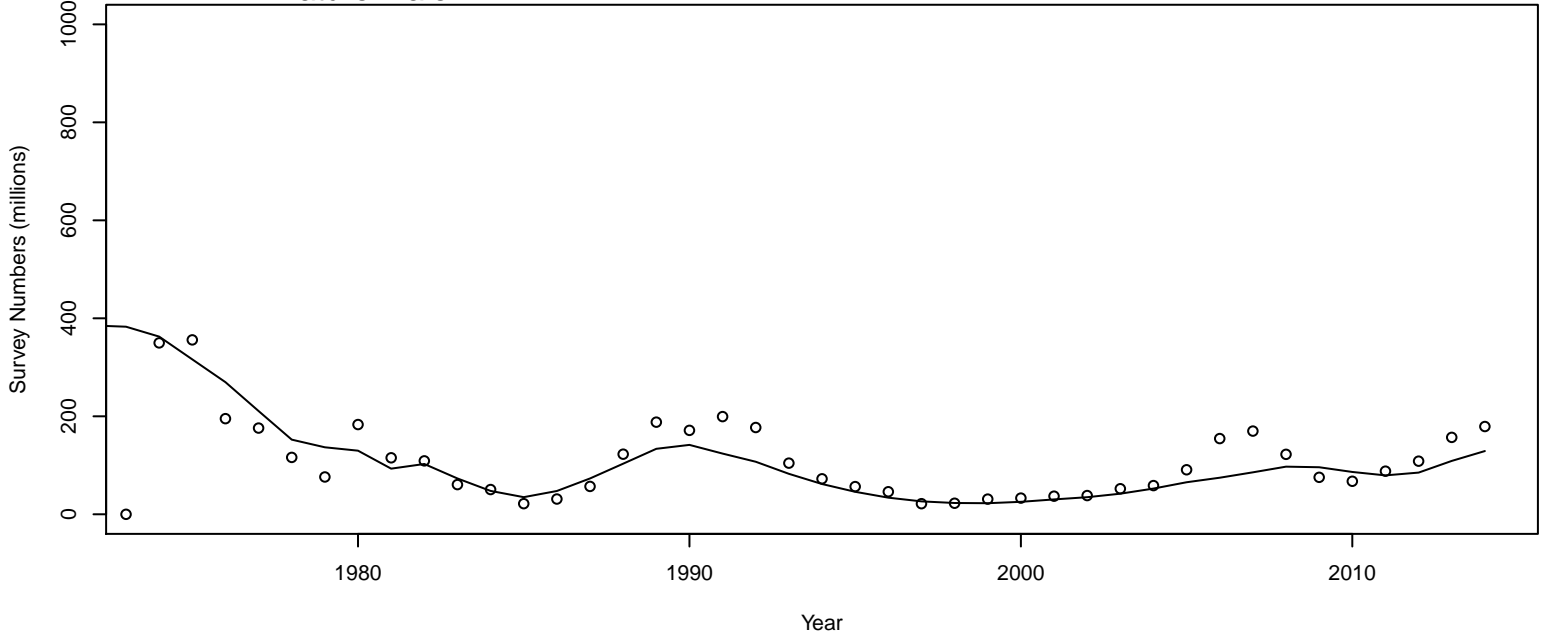
Mature new shell male



Mature old shell male

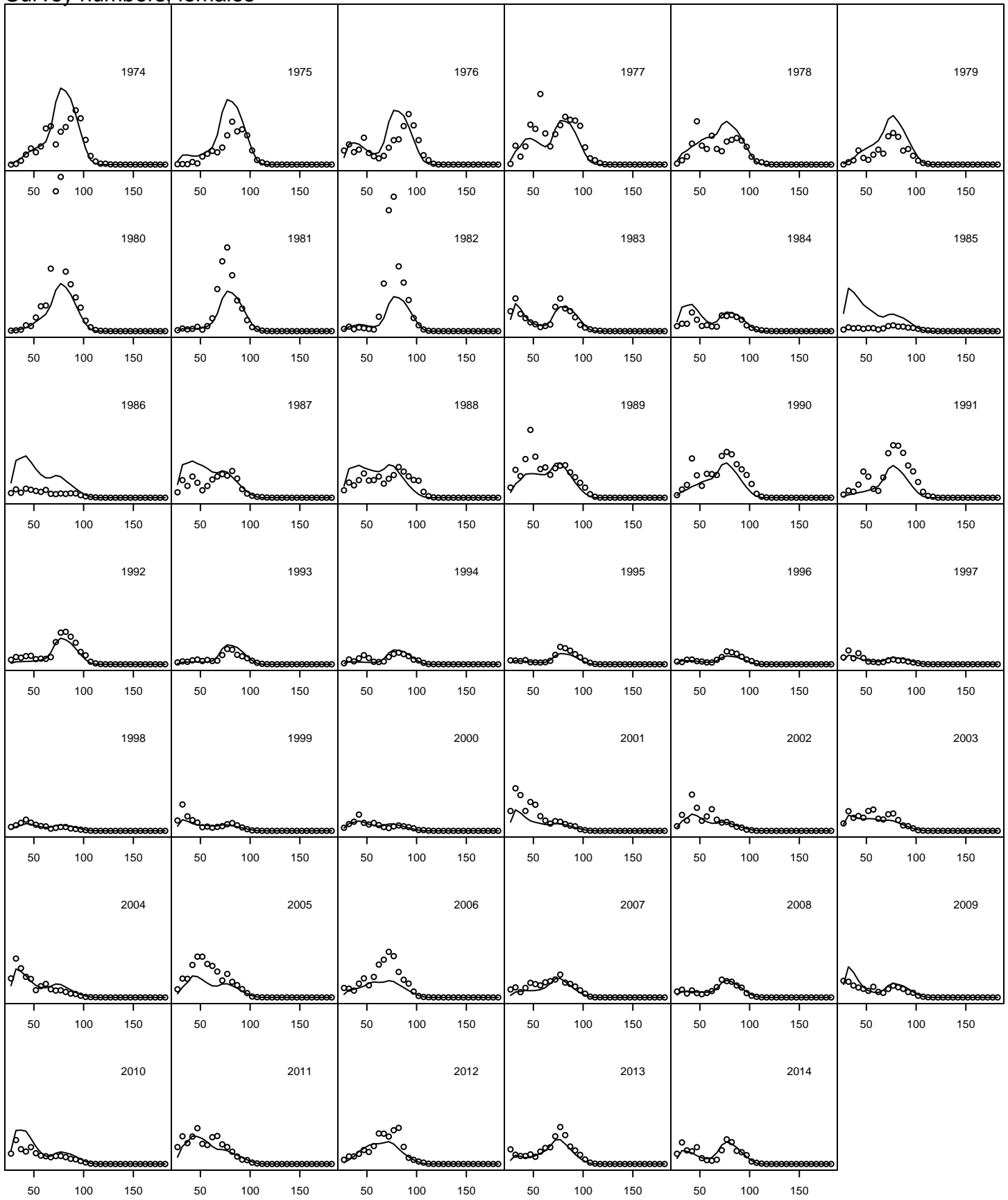


All mature male

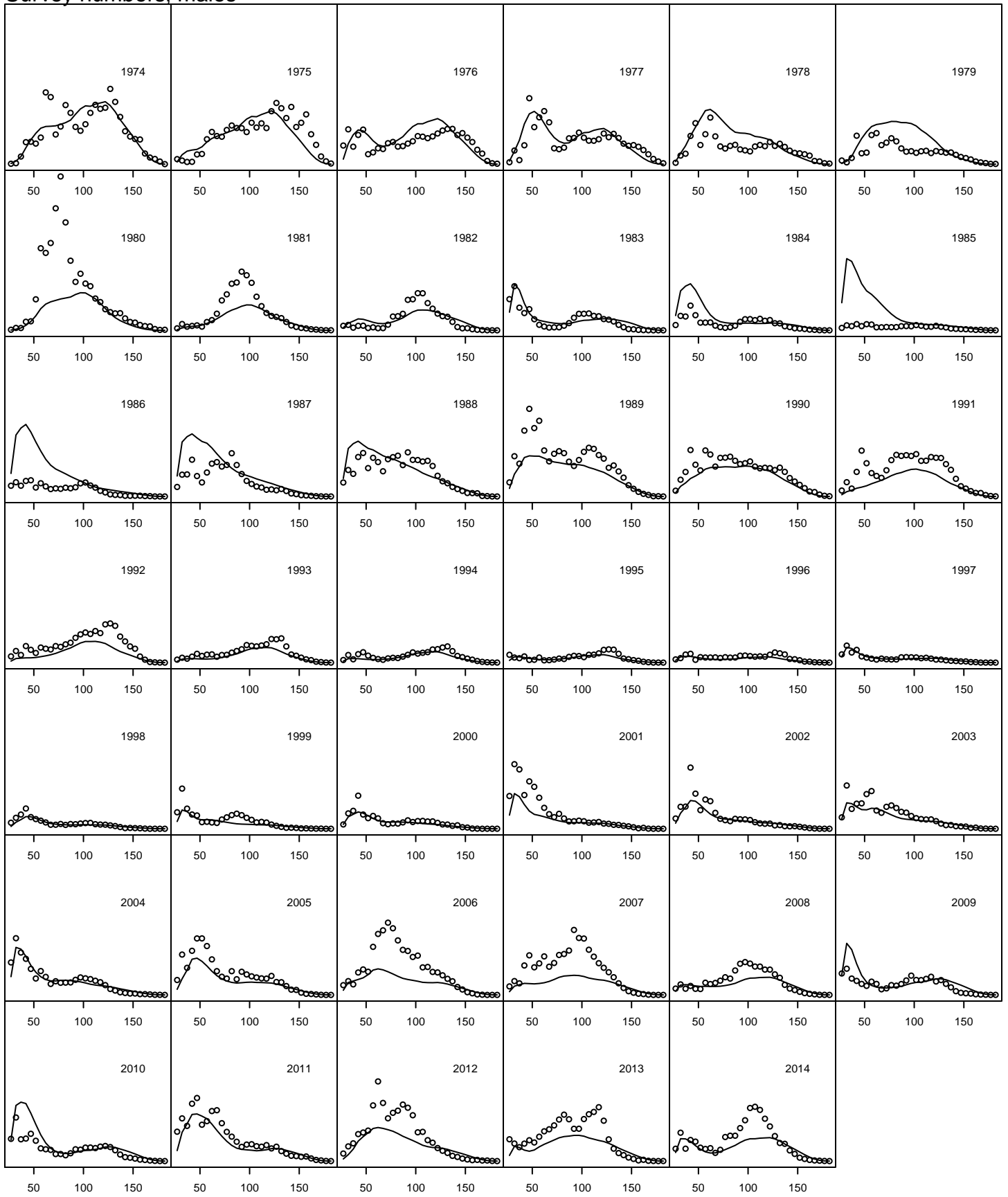




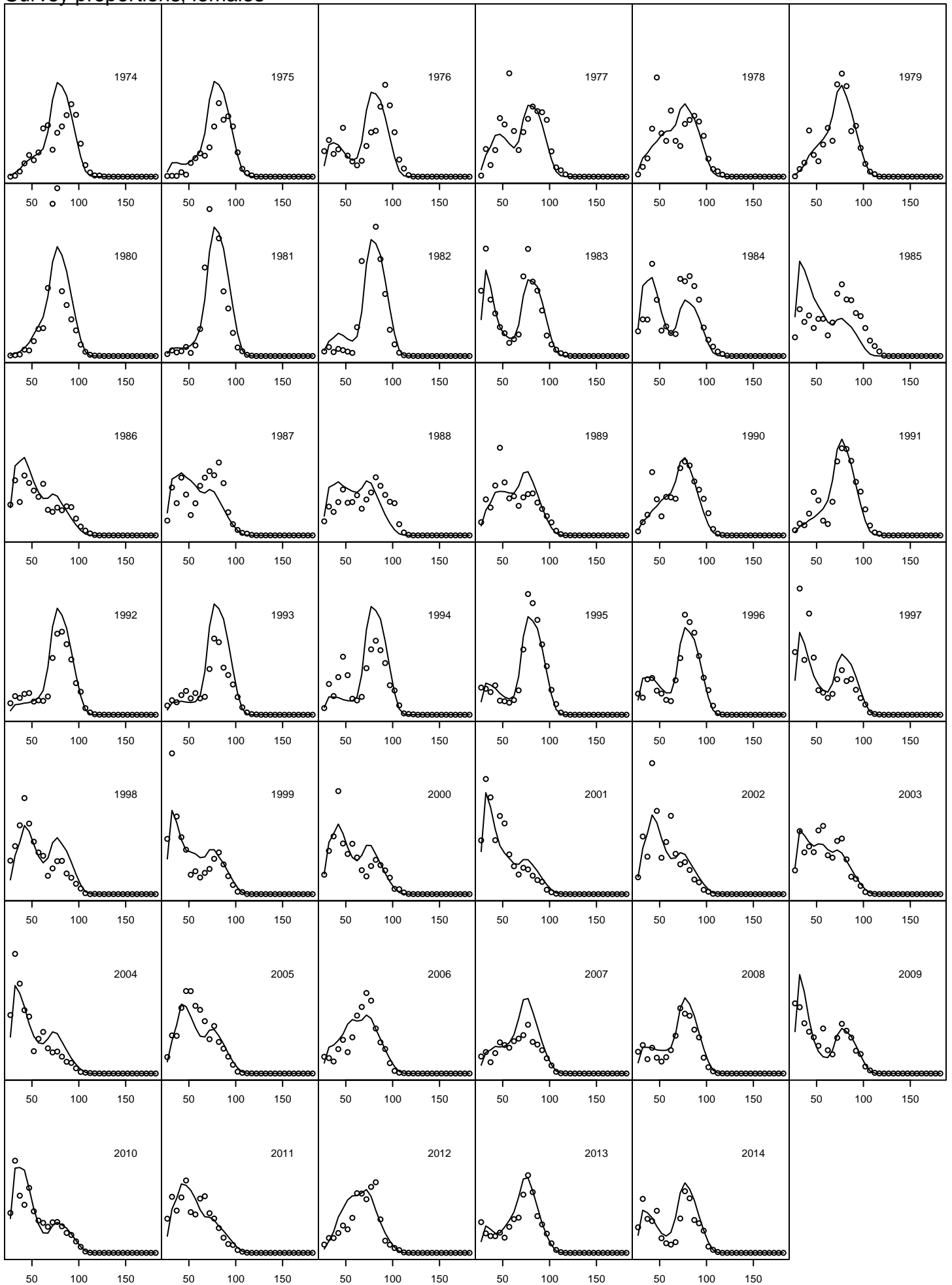
Survey numbers, females



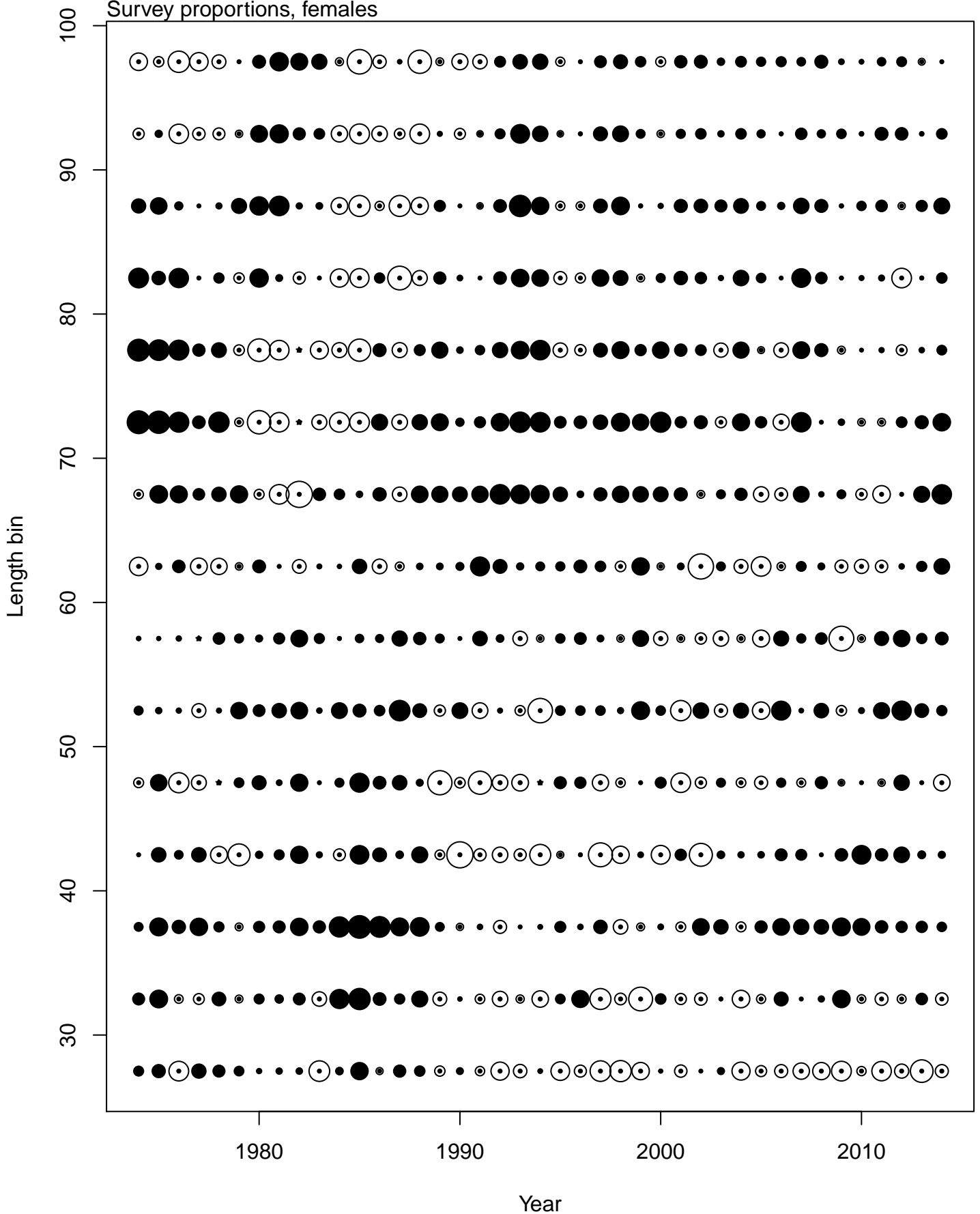
Survey numbers, males



Survey proportions, females

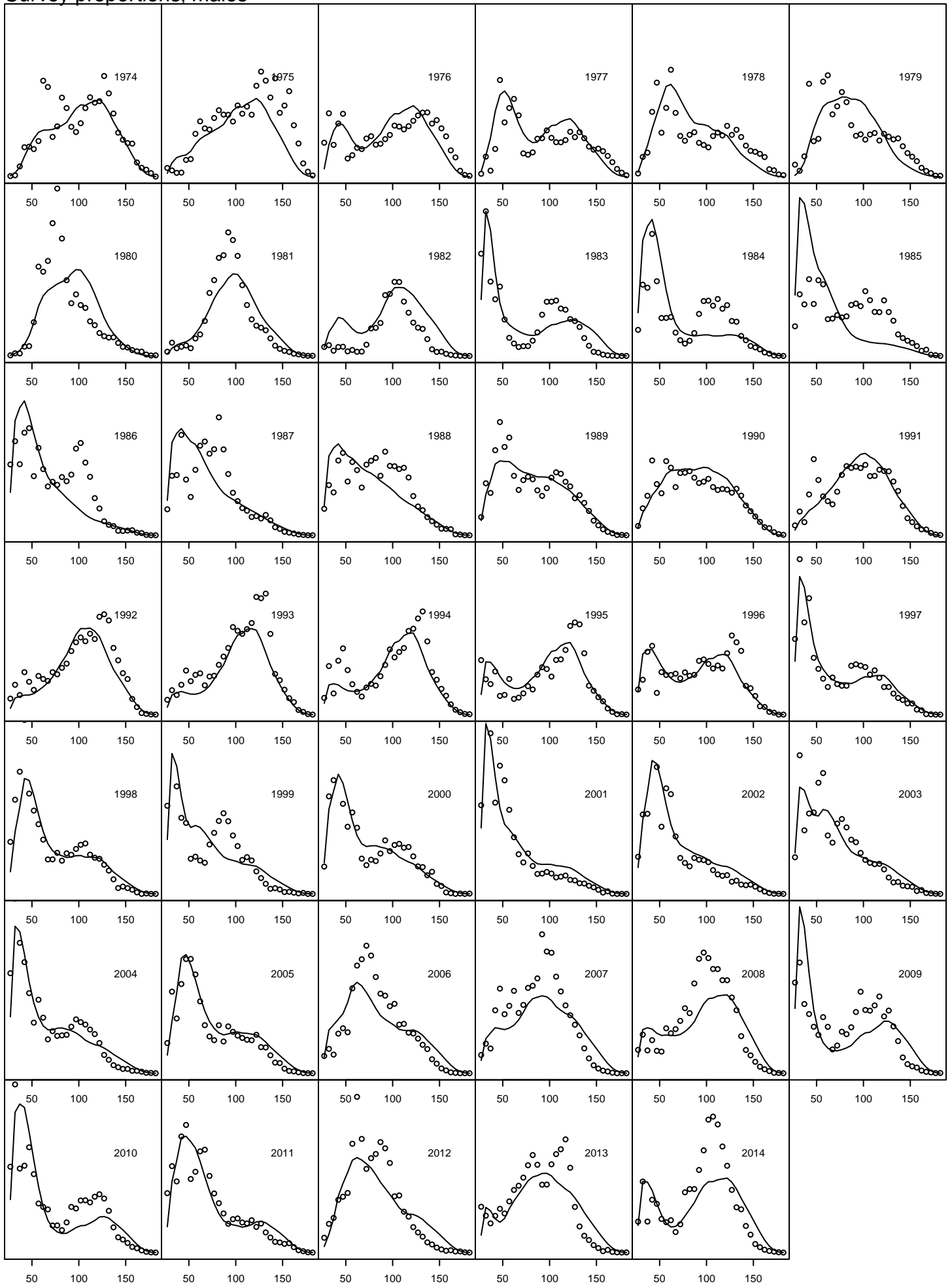


Survey proportions, females

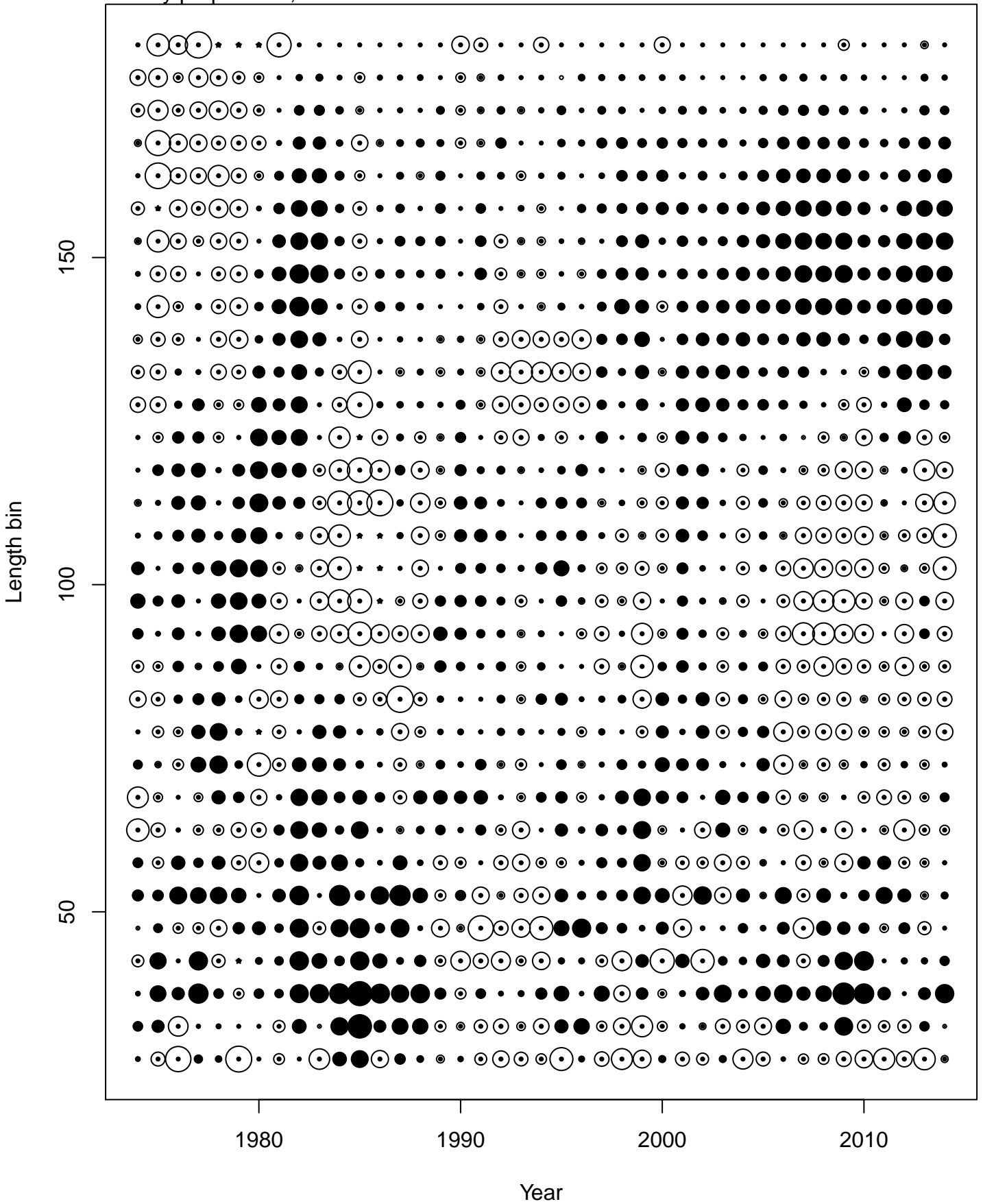


Standardized Pearson Residual Range -2.233 2.97

Survey proportions, males

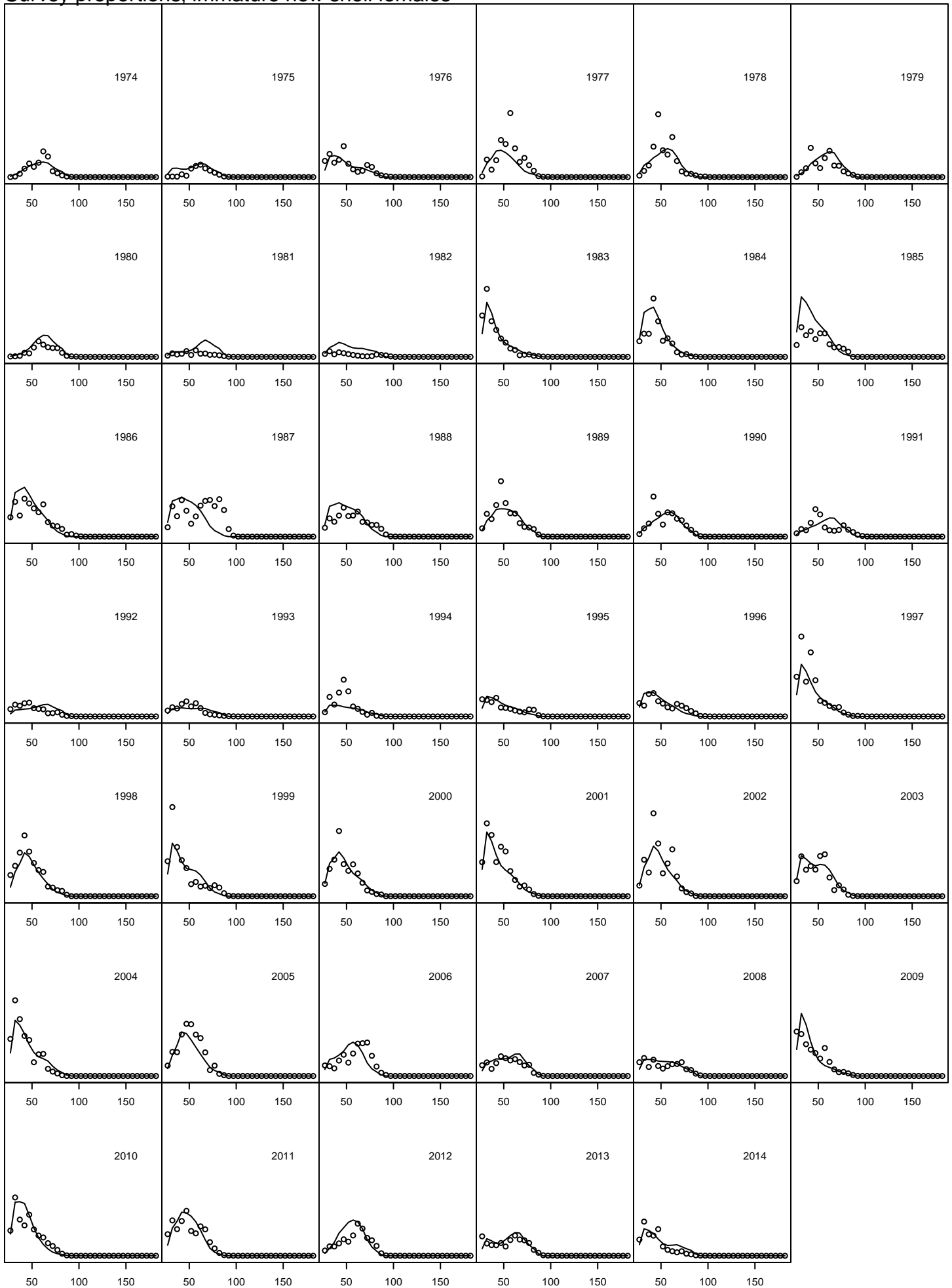


Survey proportions, males

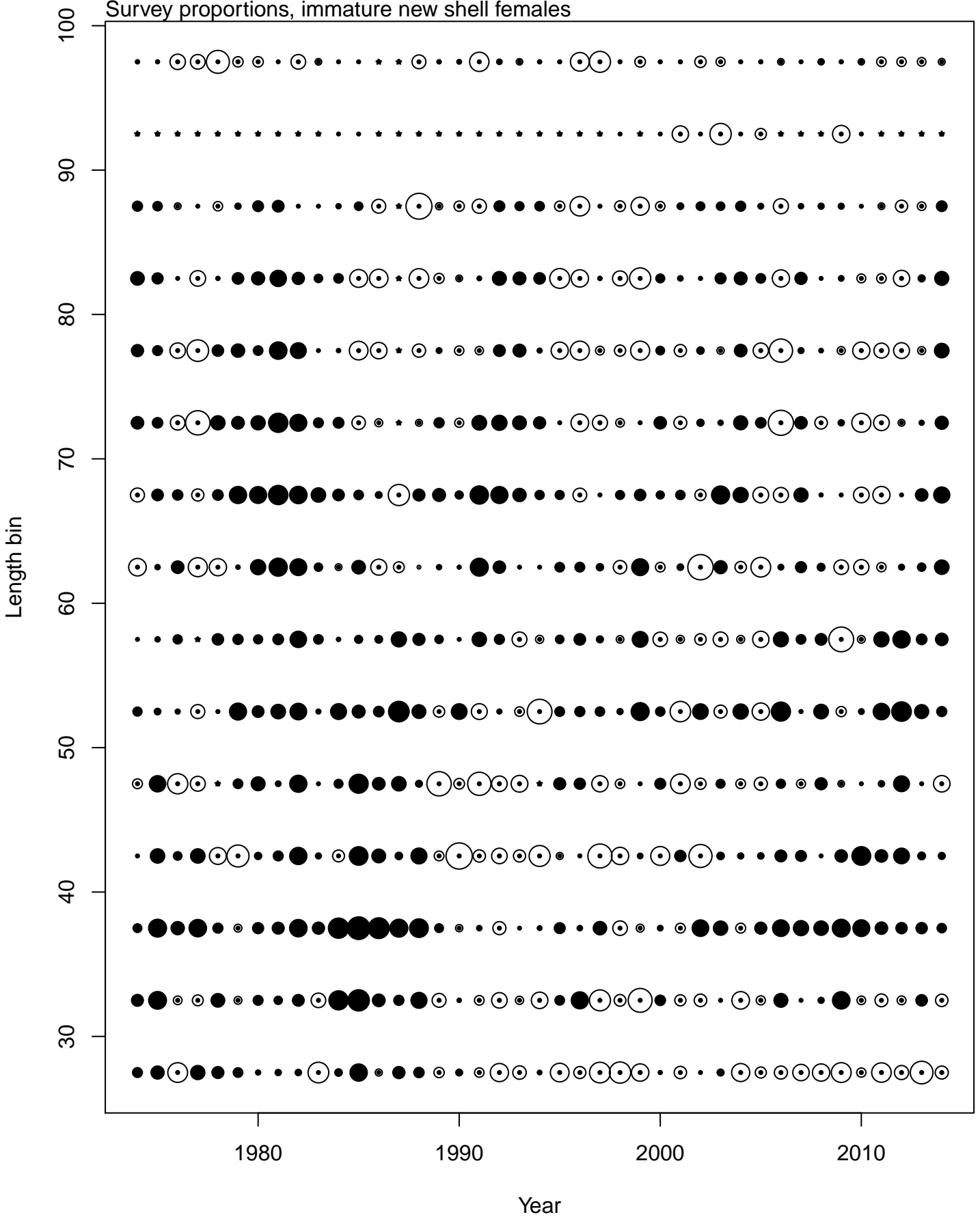


Standardized Pearson Residual Range -2.45 2.957

Survey proportions, immature new shell females

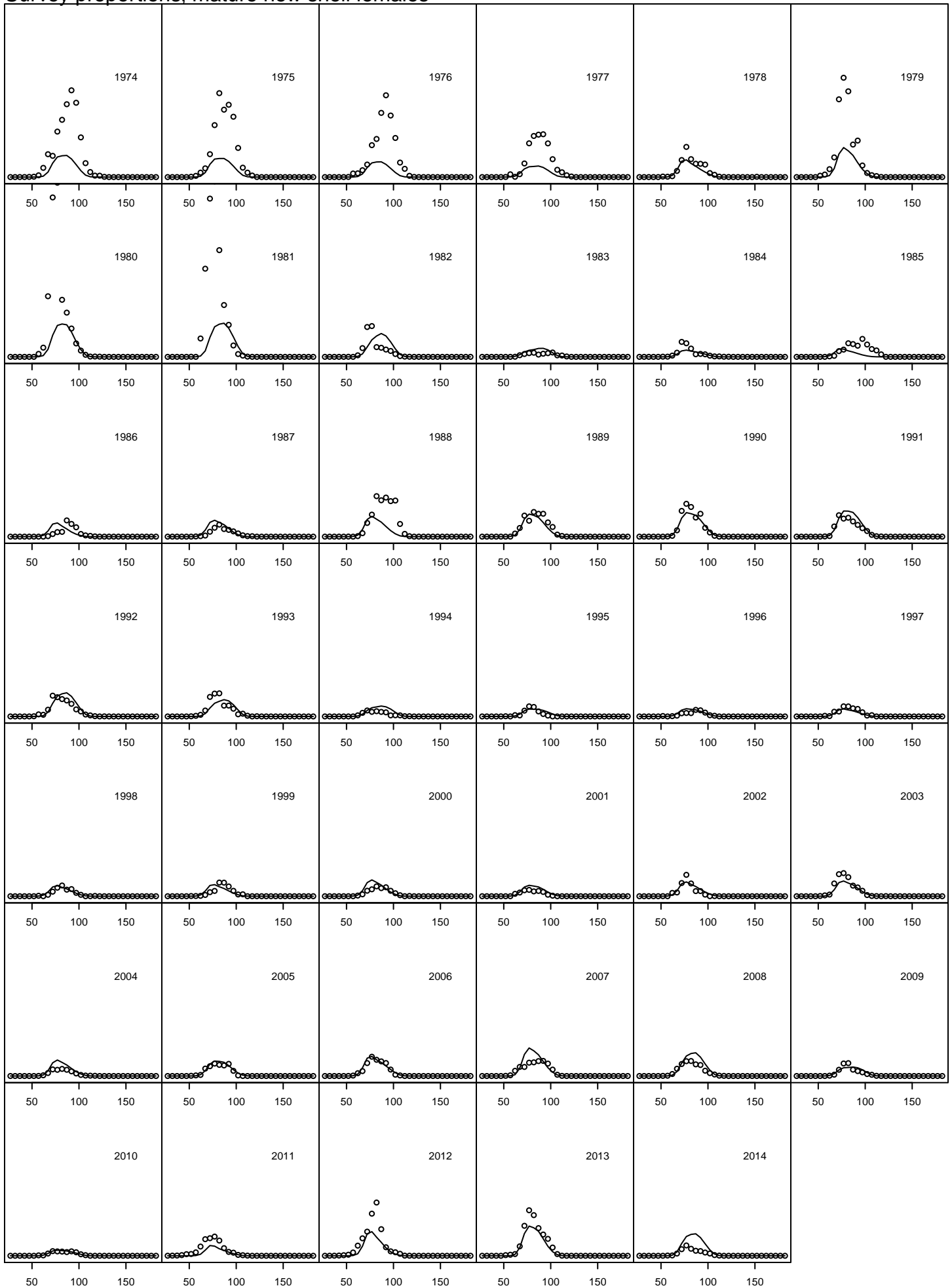


Survey proportions, immature new shell females

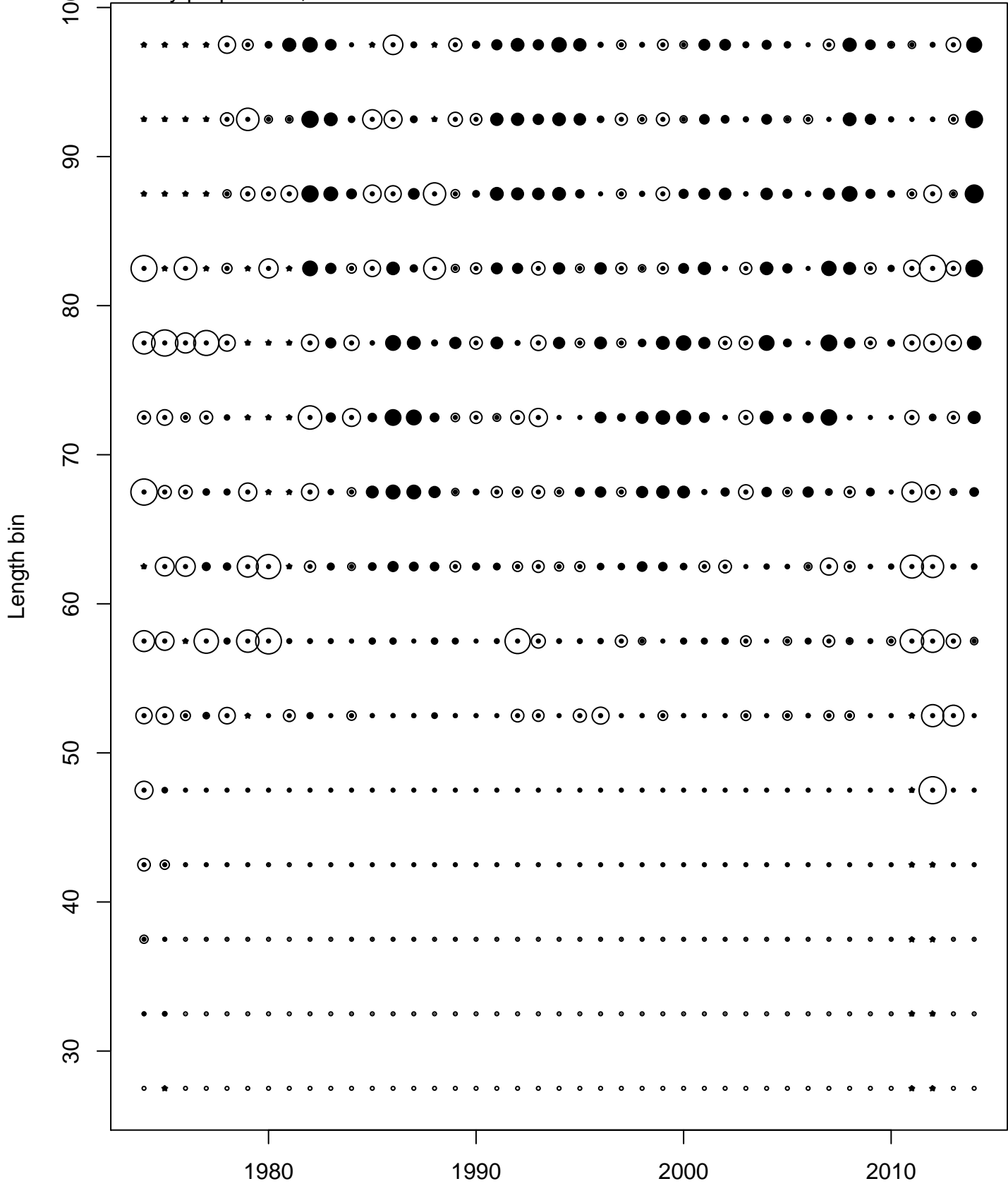


Standardized Pearson Residual Range -2.202 2.958

Survey proportions, mature new shell females

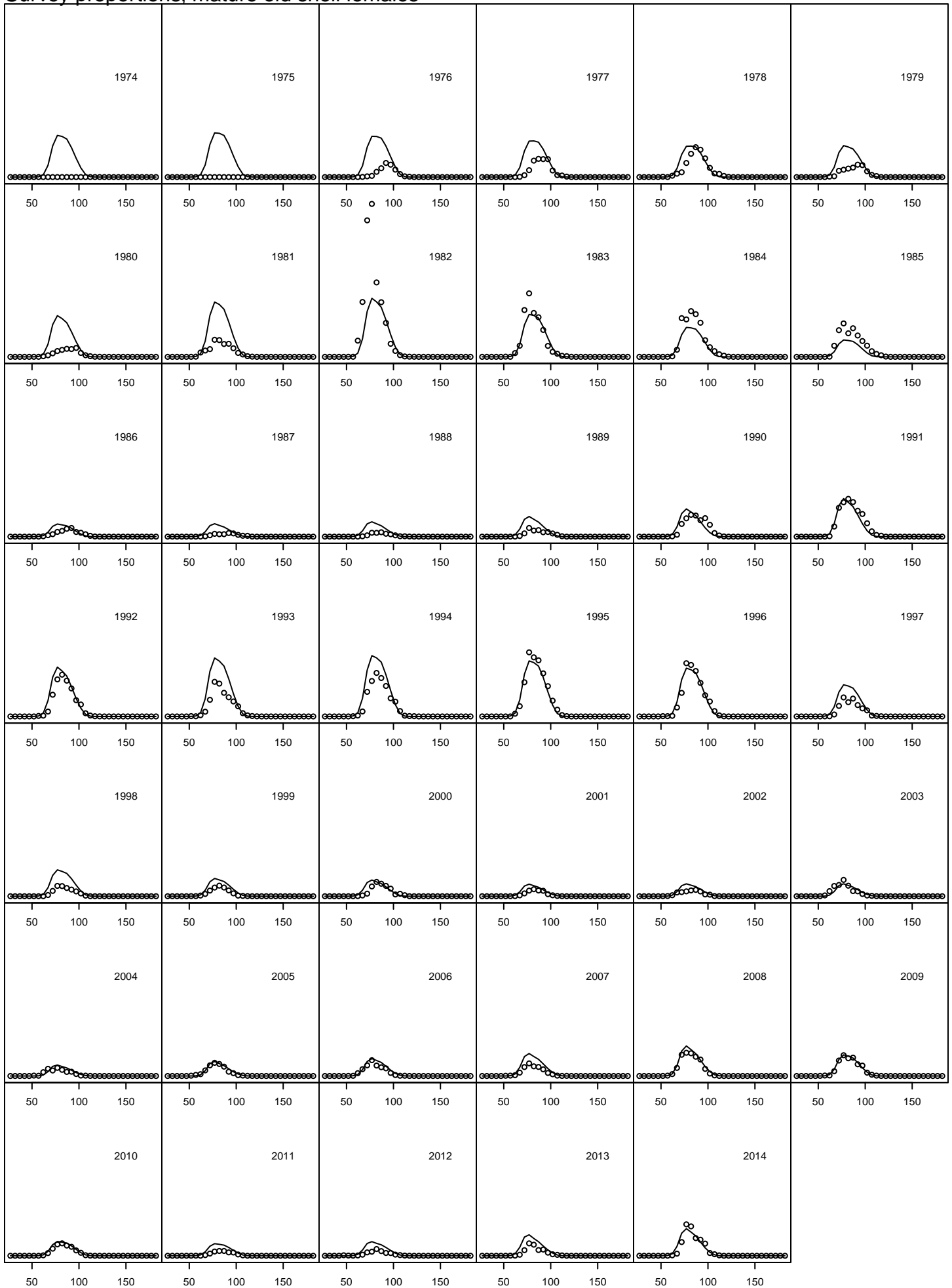


Survey proportions, mature new shell females

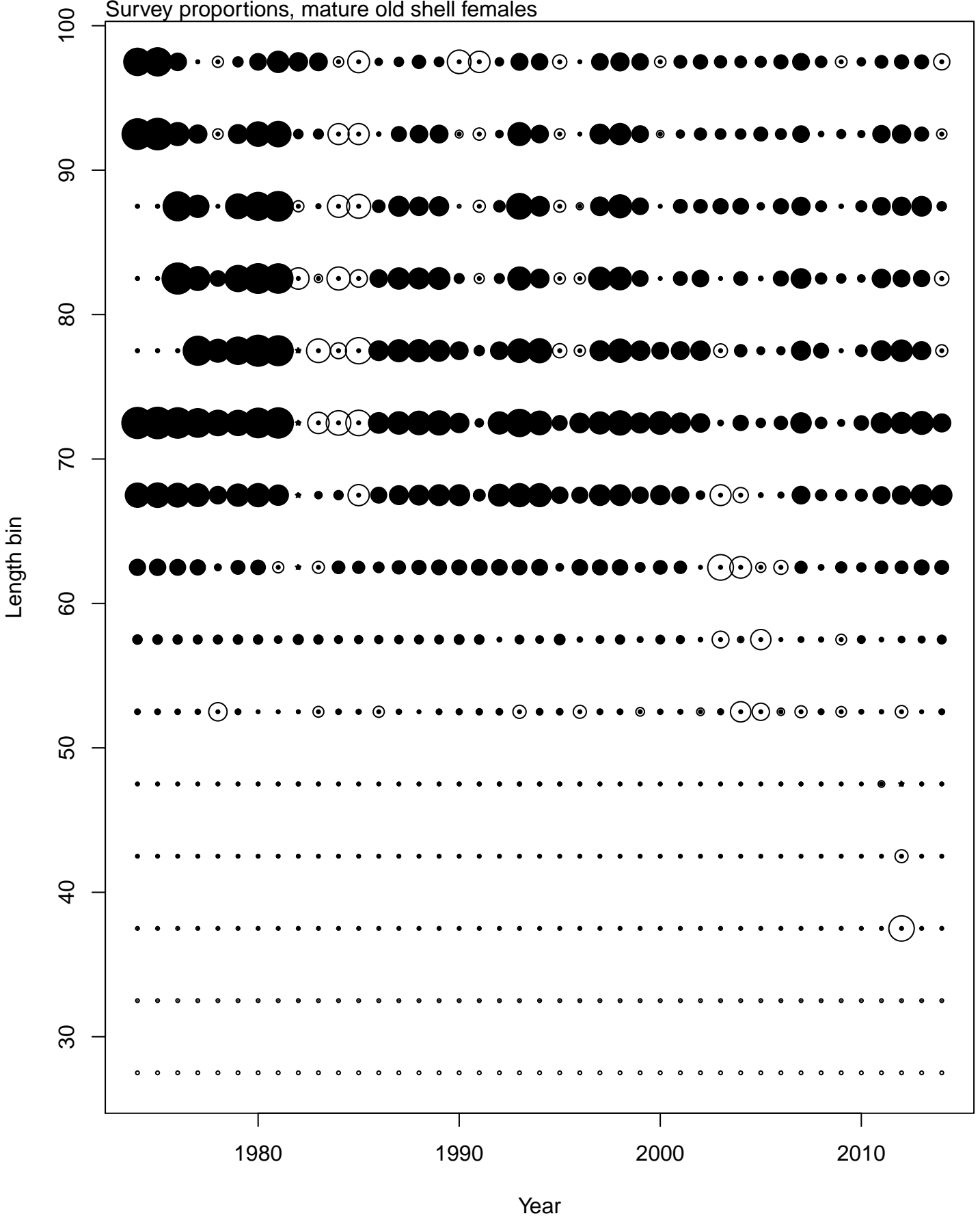


Standardized Pearson Residual Range -1.263 2.978

Survey proportions, mature old shell females

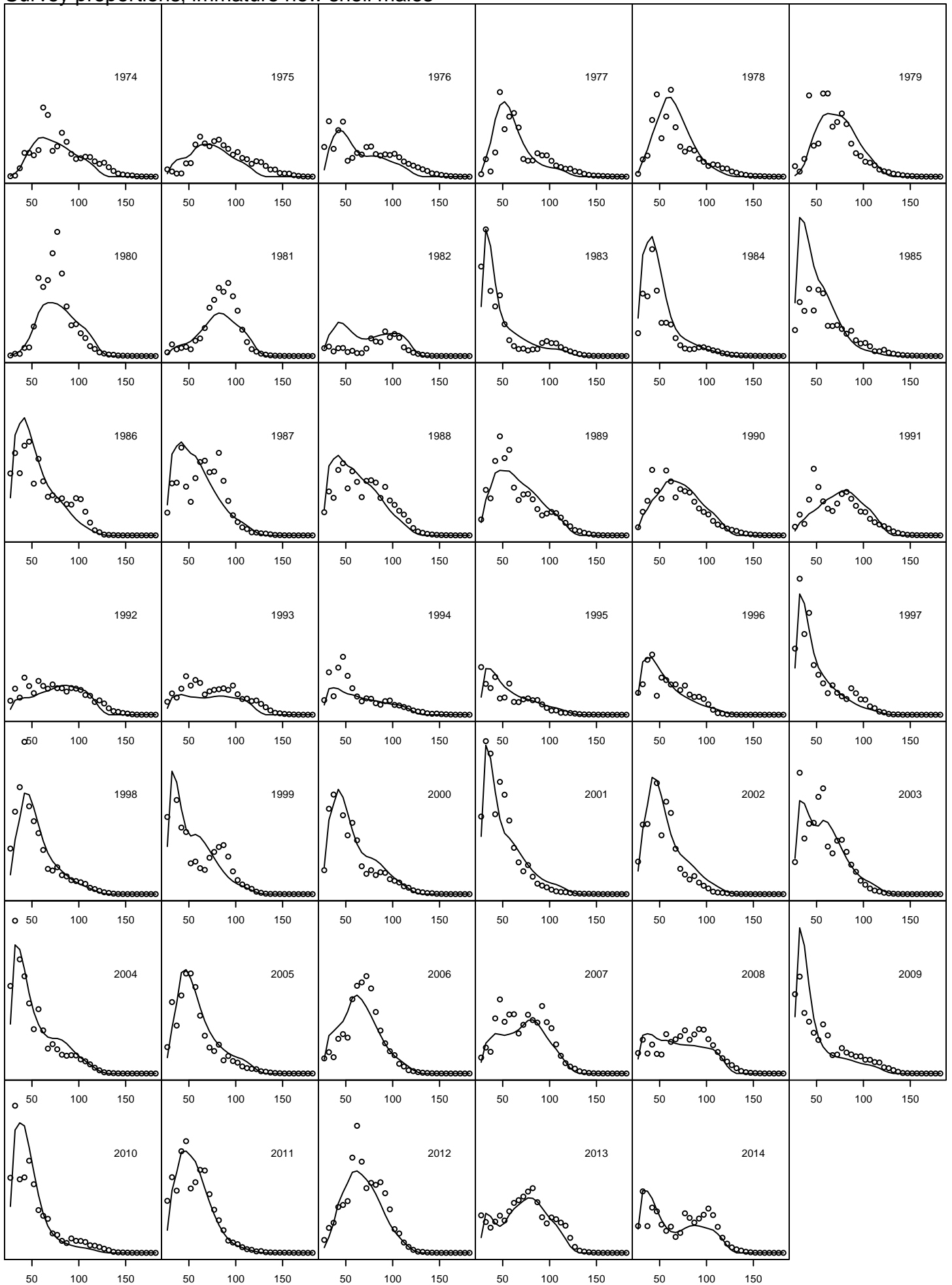


Survey proportions, mature old shell females

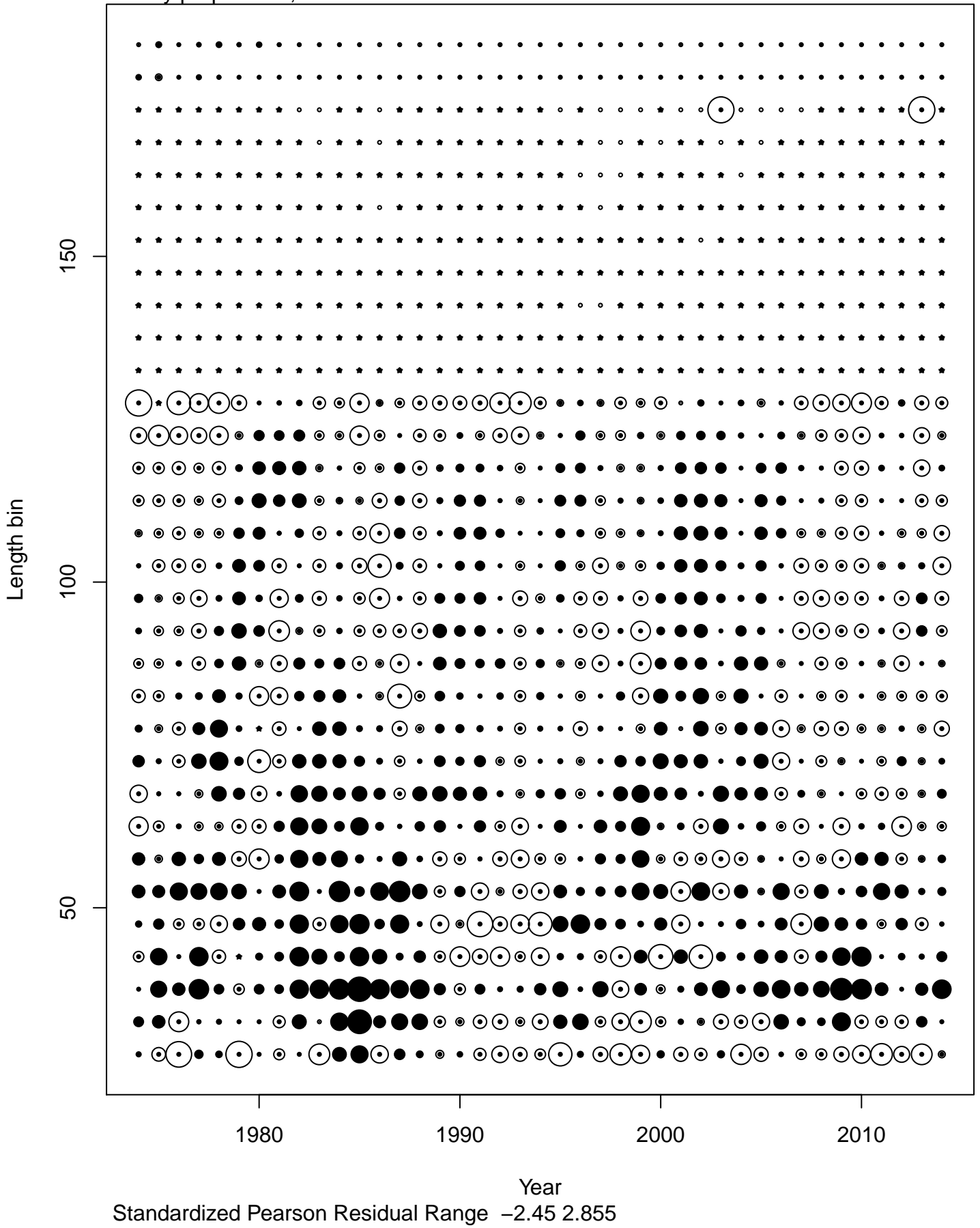


Standardized Pearson Residual Range -2.789 1.944

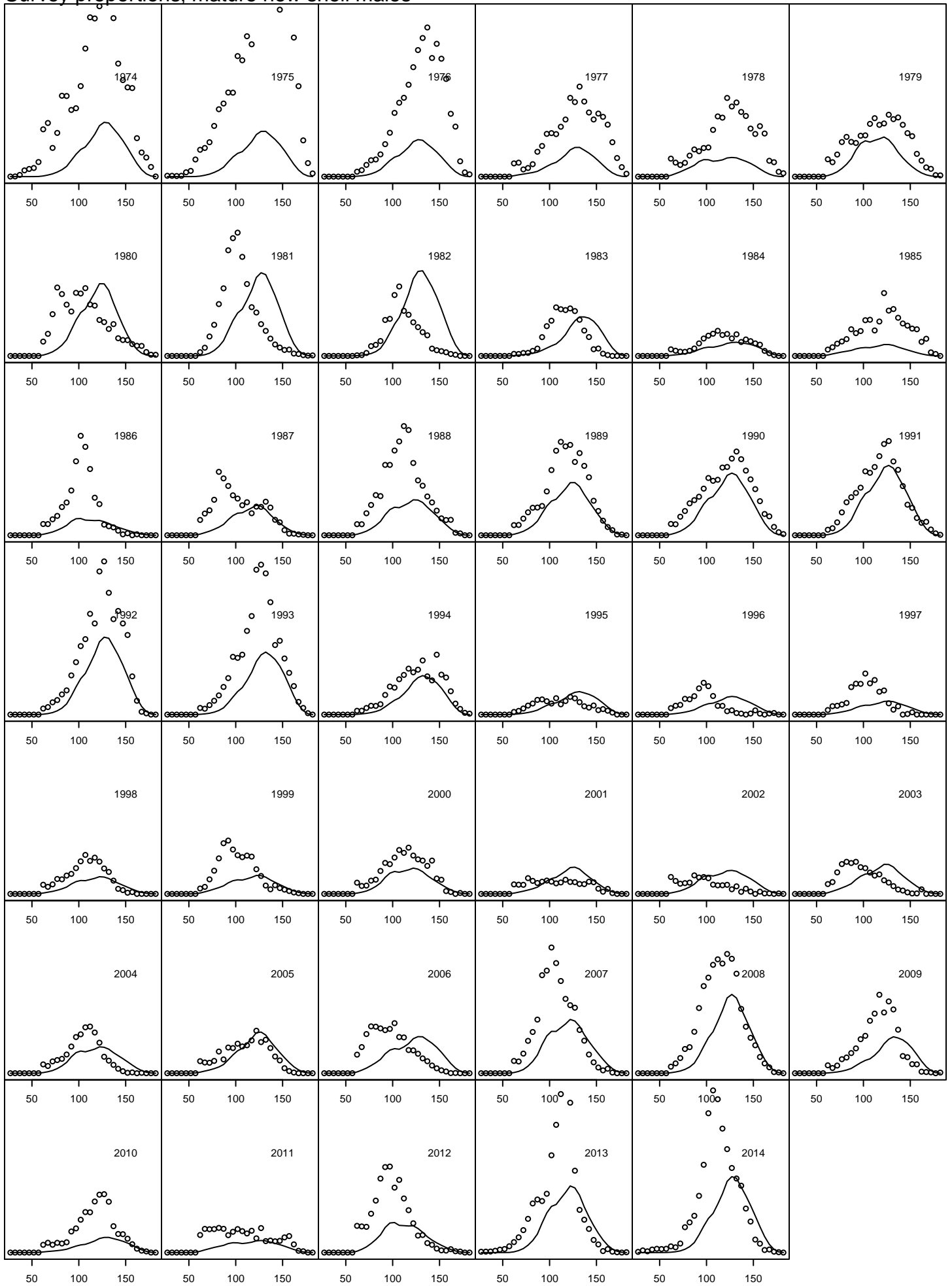
Survey proportions, immature new shell males



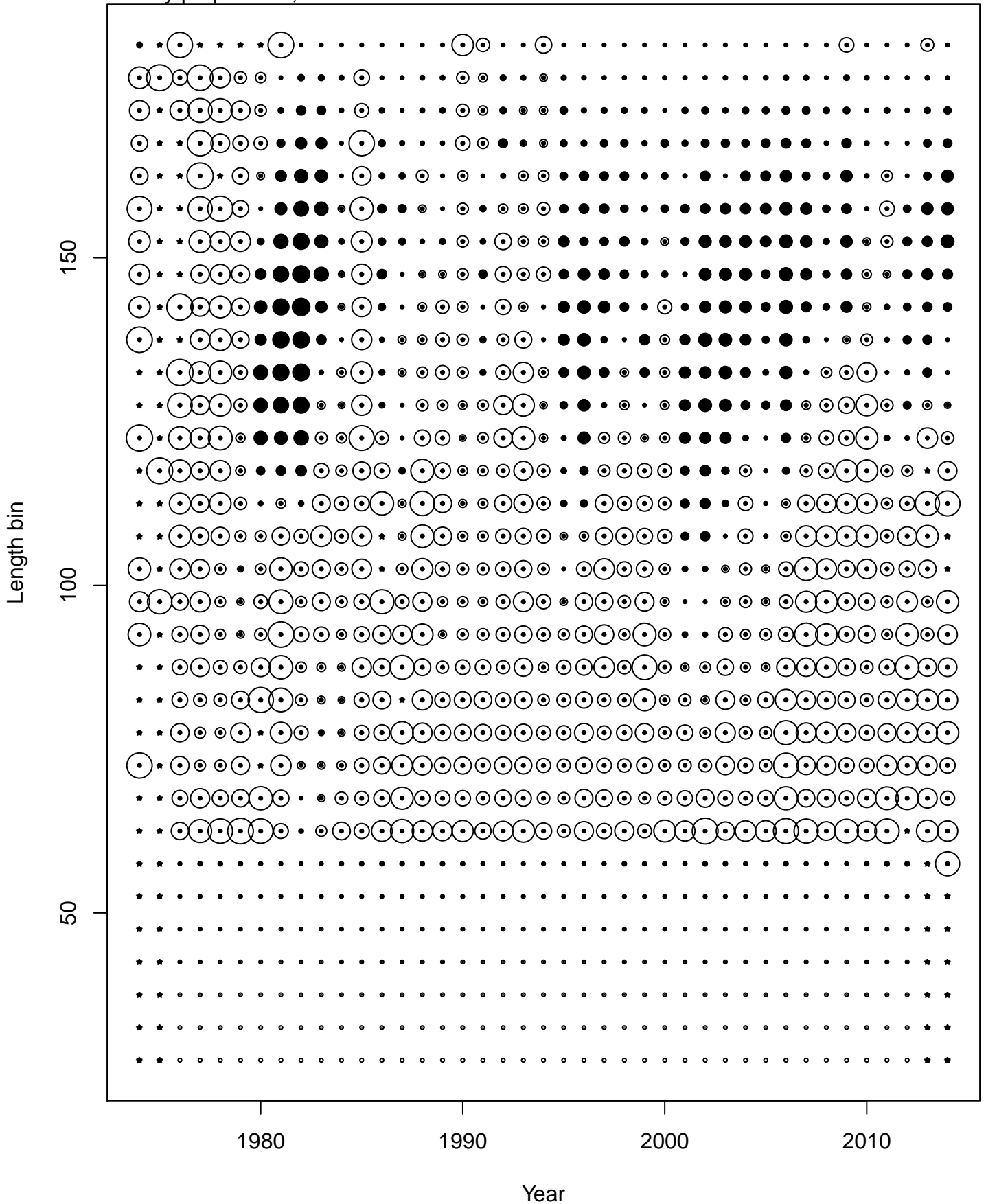
Survey proportions, immature new shell males



Survey proportions, mature new shell males

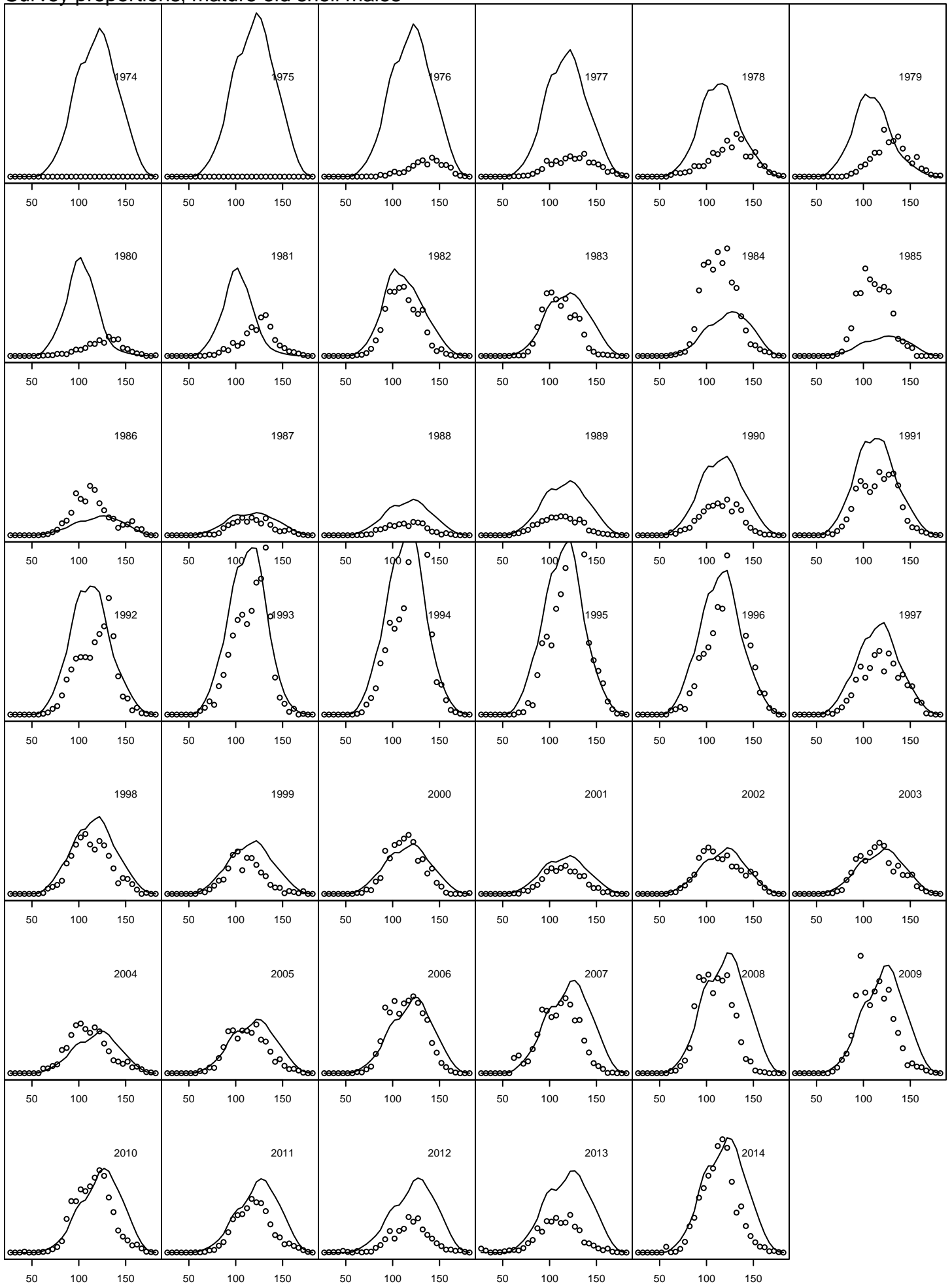


Survey proportions, mature new shell males

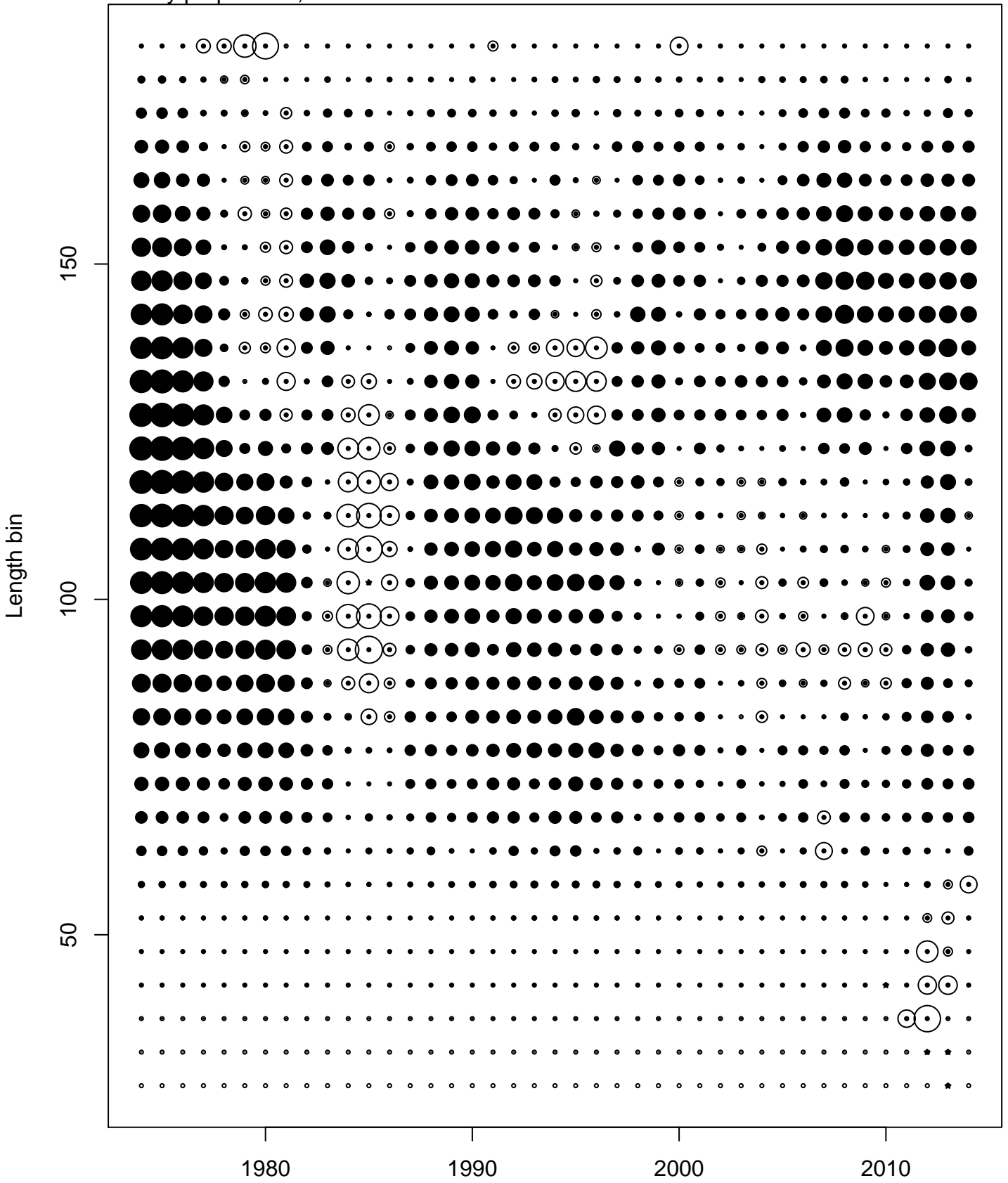


Standardized Pearson Residual Range -1.295 2.954

Survey proportions, mature old shell males

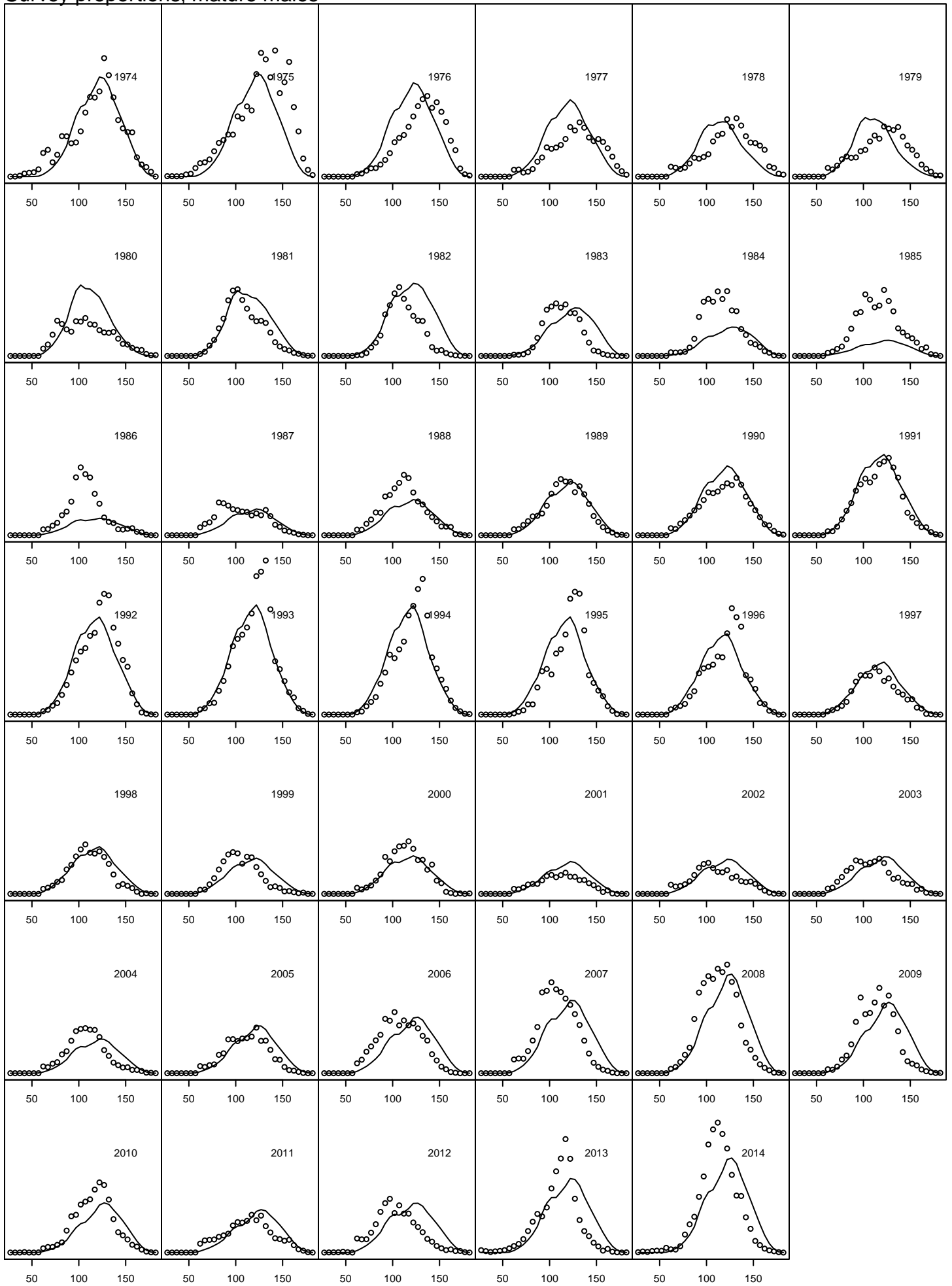


Survey proportions, mature old shell males

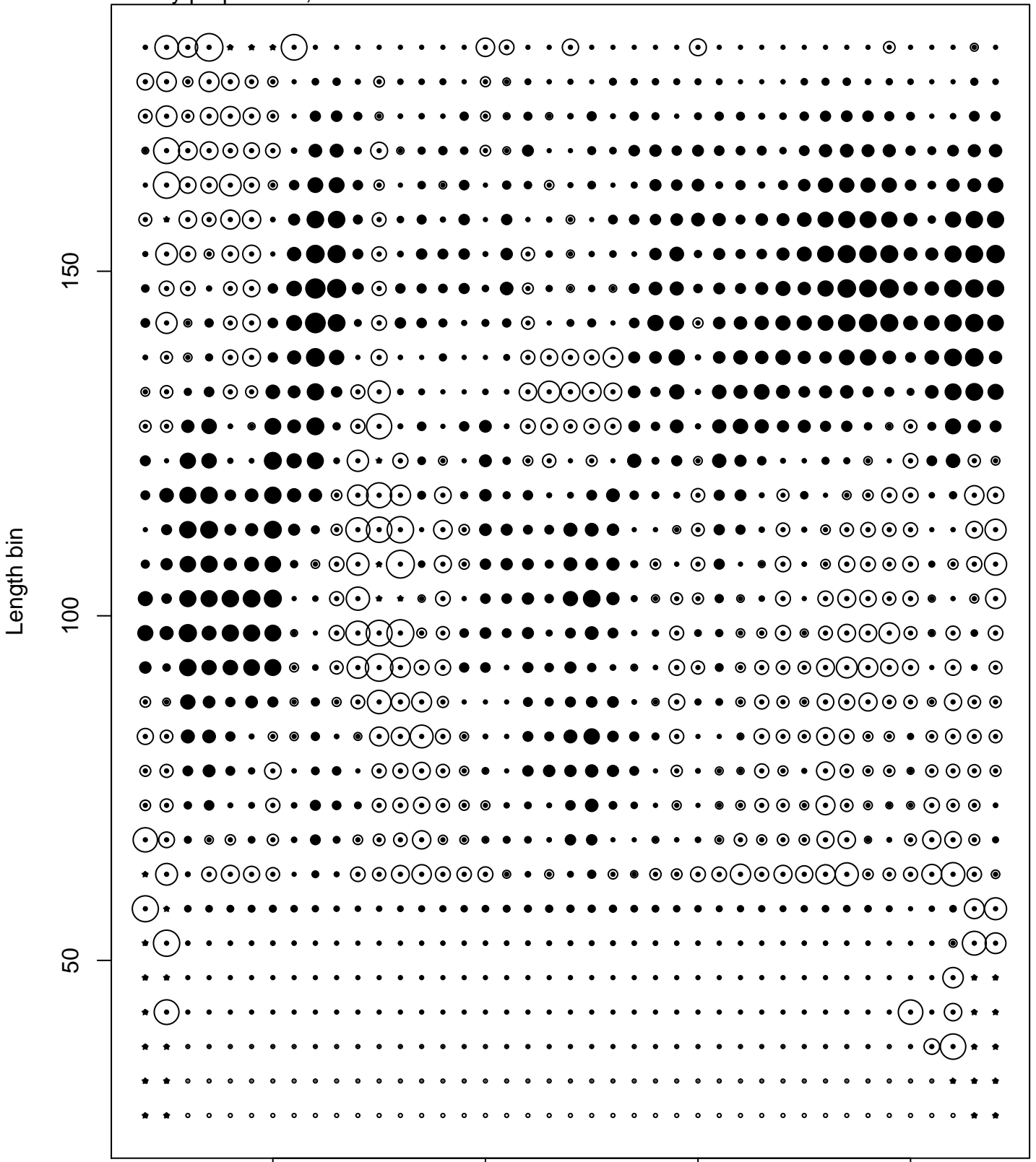


Standardized Pearson Residual Range -2.248 2.962

Survey proportions, mature males

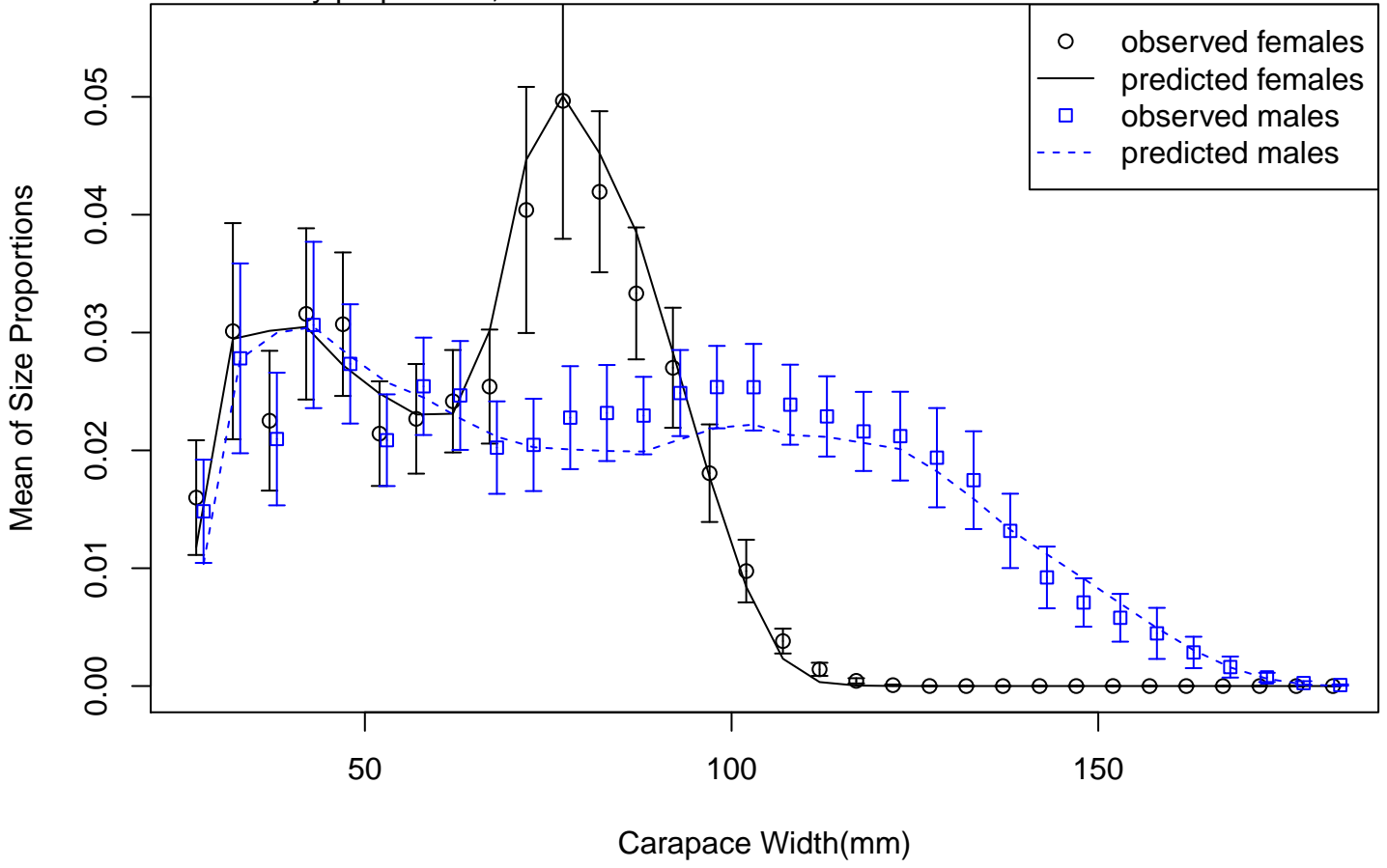


Survey proportions, mature males

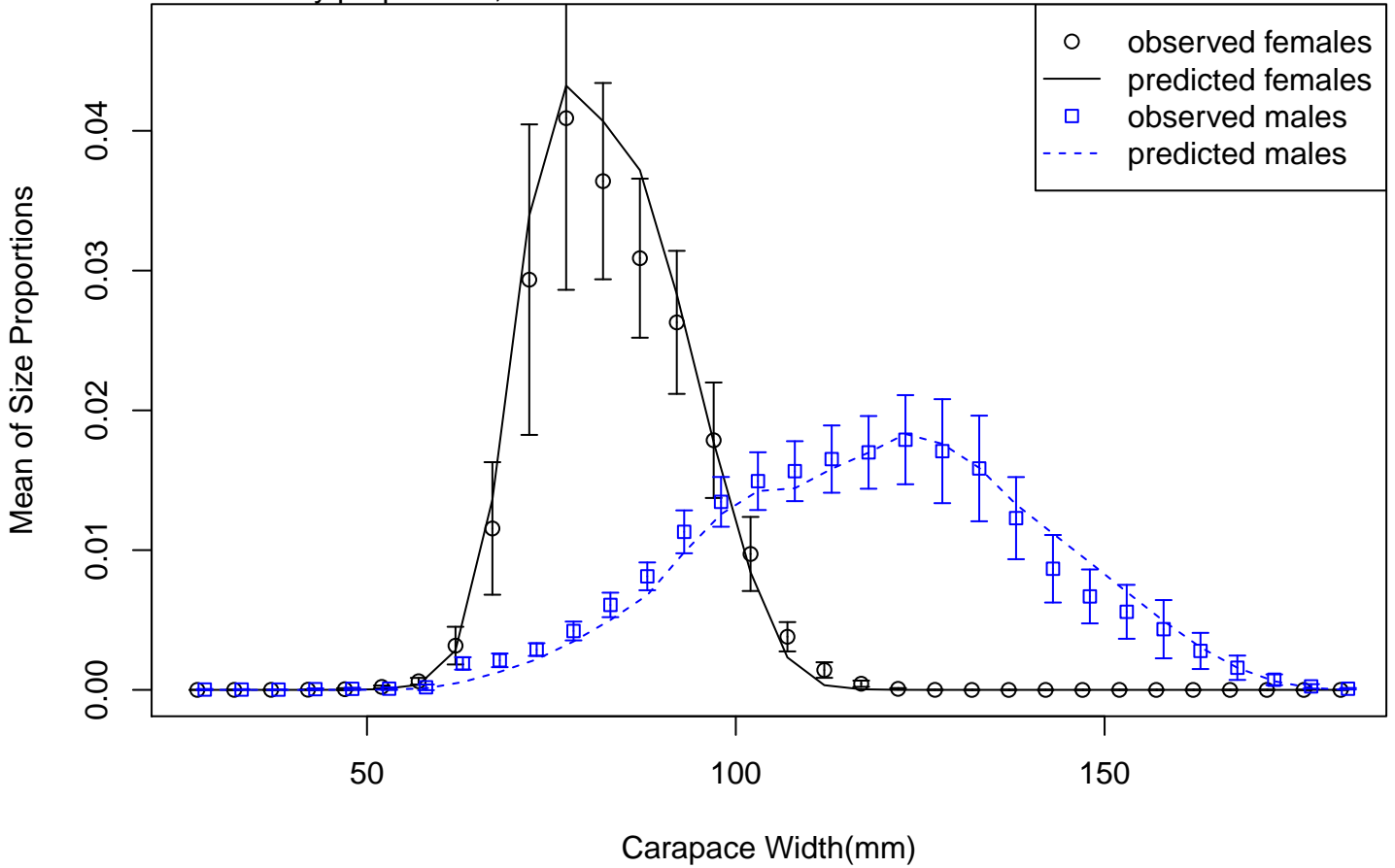


Standardized Pearson Residual Range -1.453 2.991

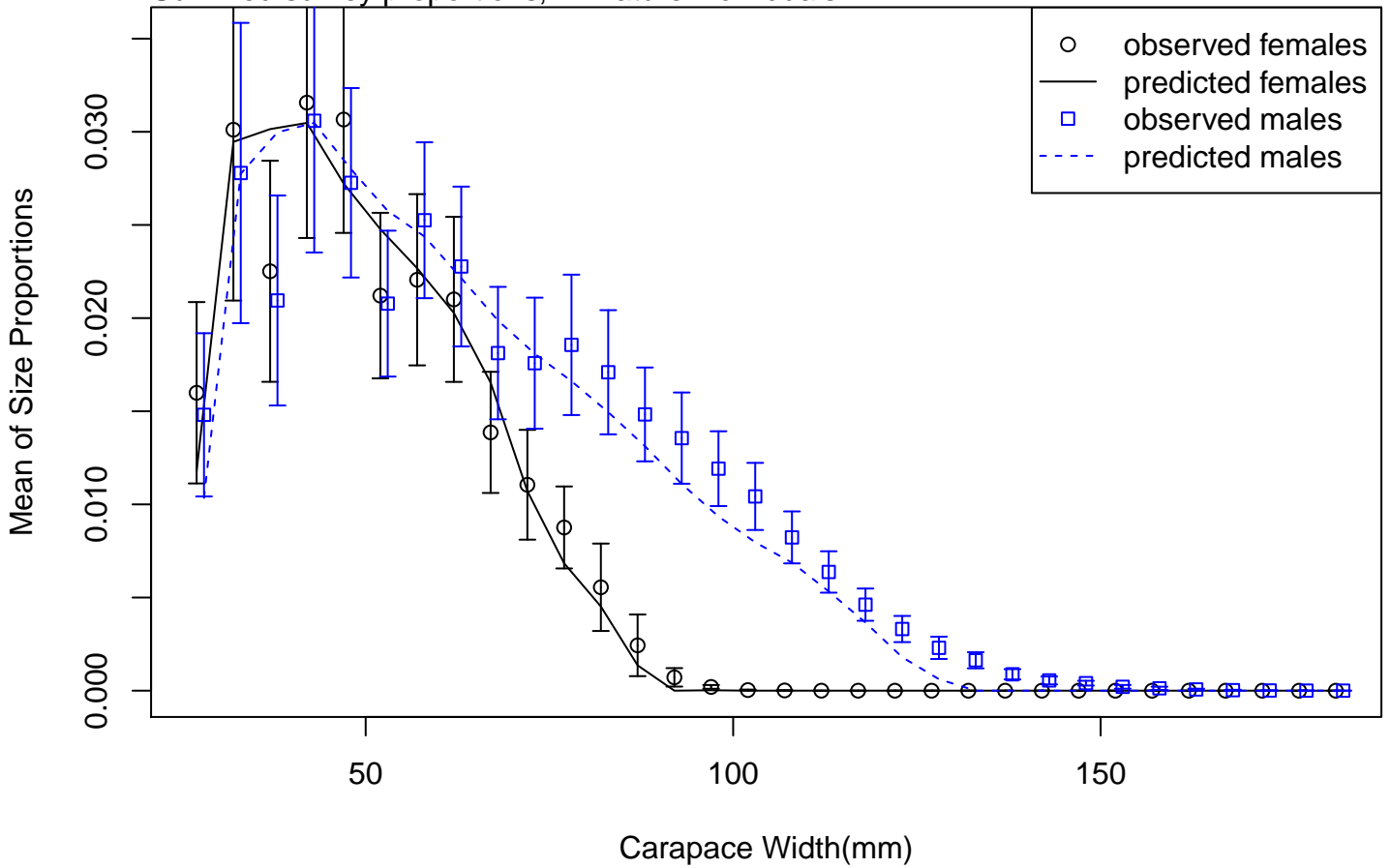
Mean survey proportions, all individuals



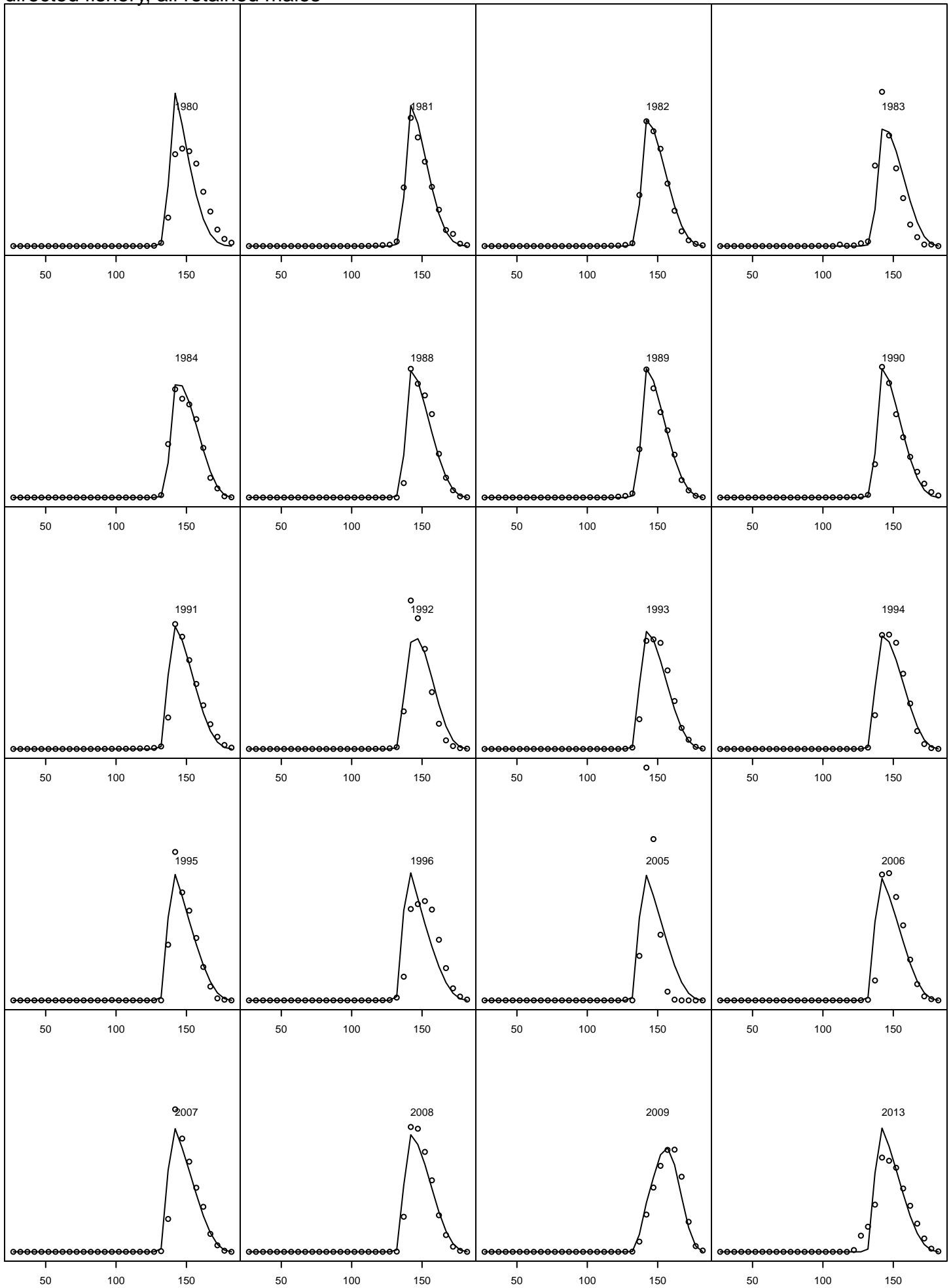
Mean survey proportions, mature individuals



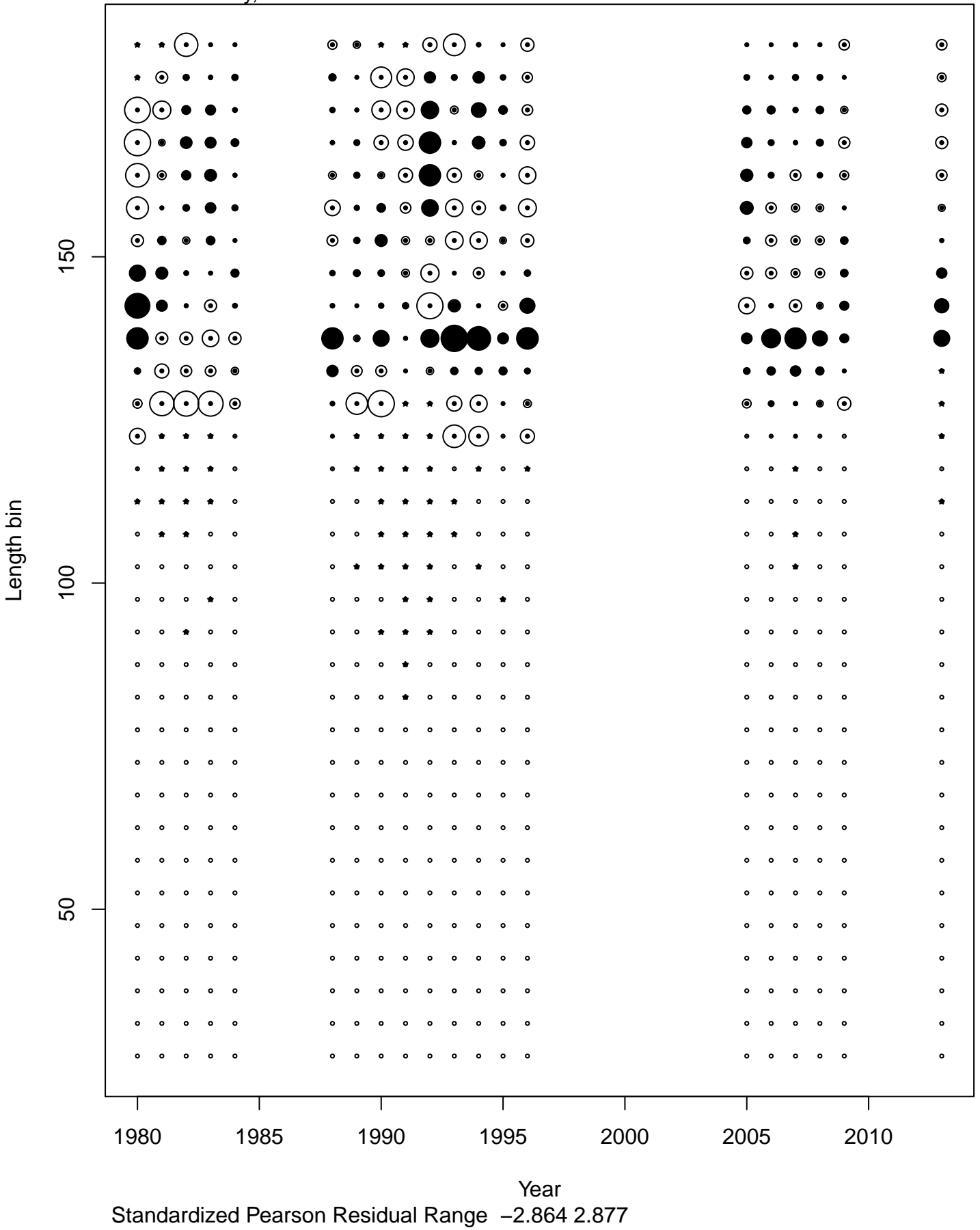
Summed survey proportions, immature individuals



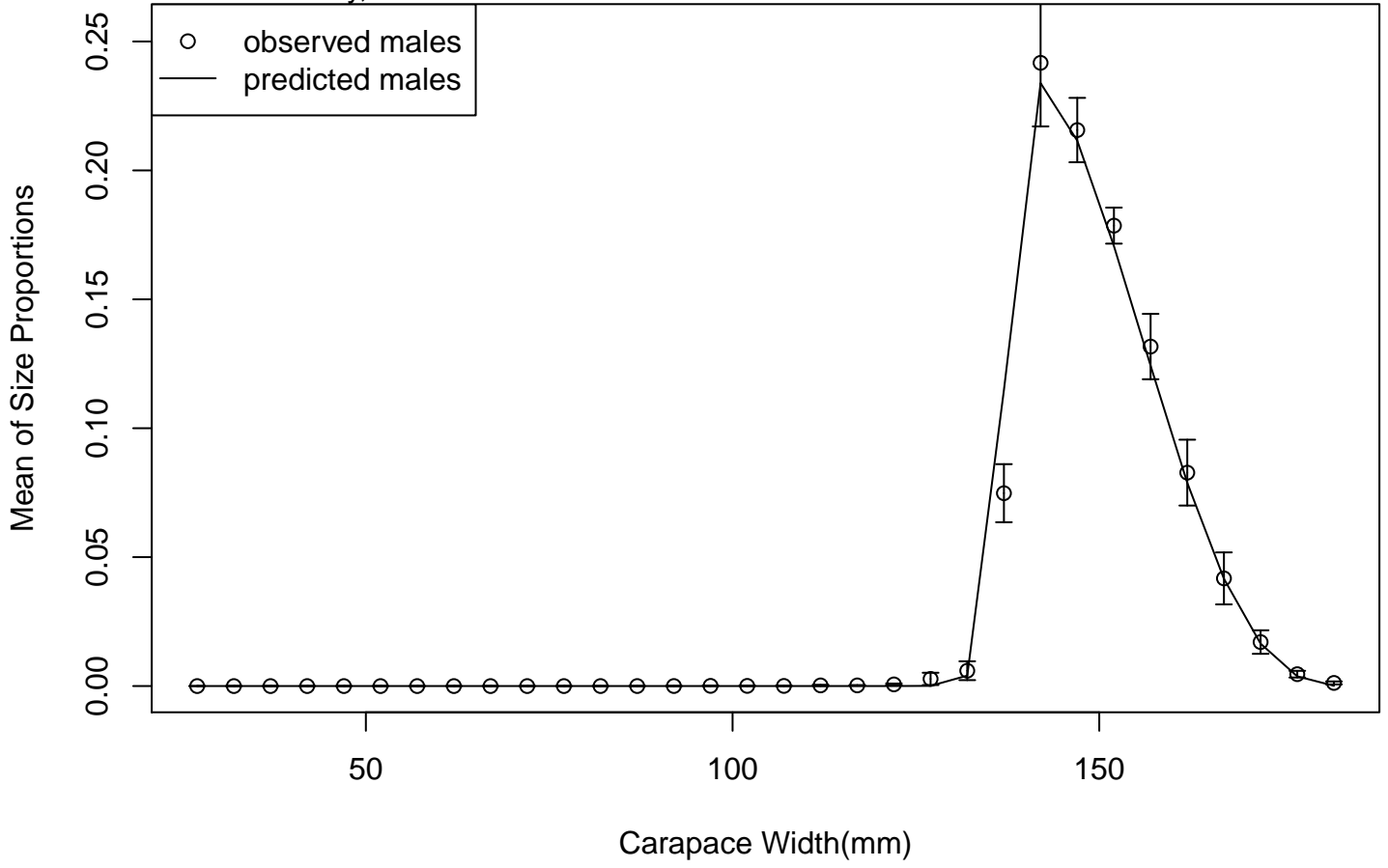
directed fishery, all retained males



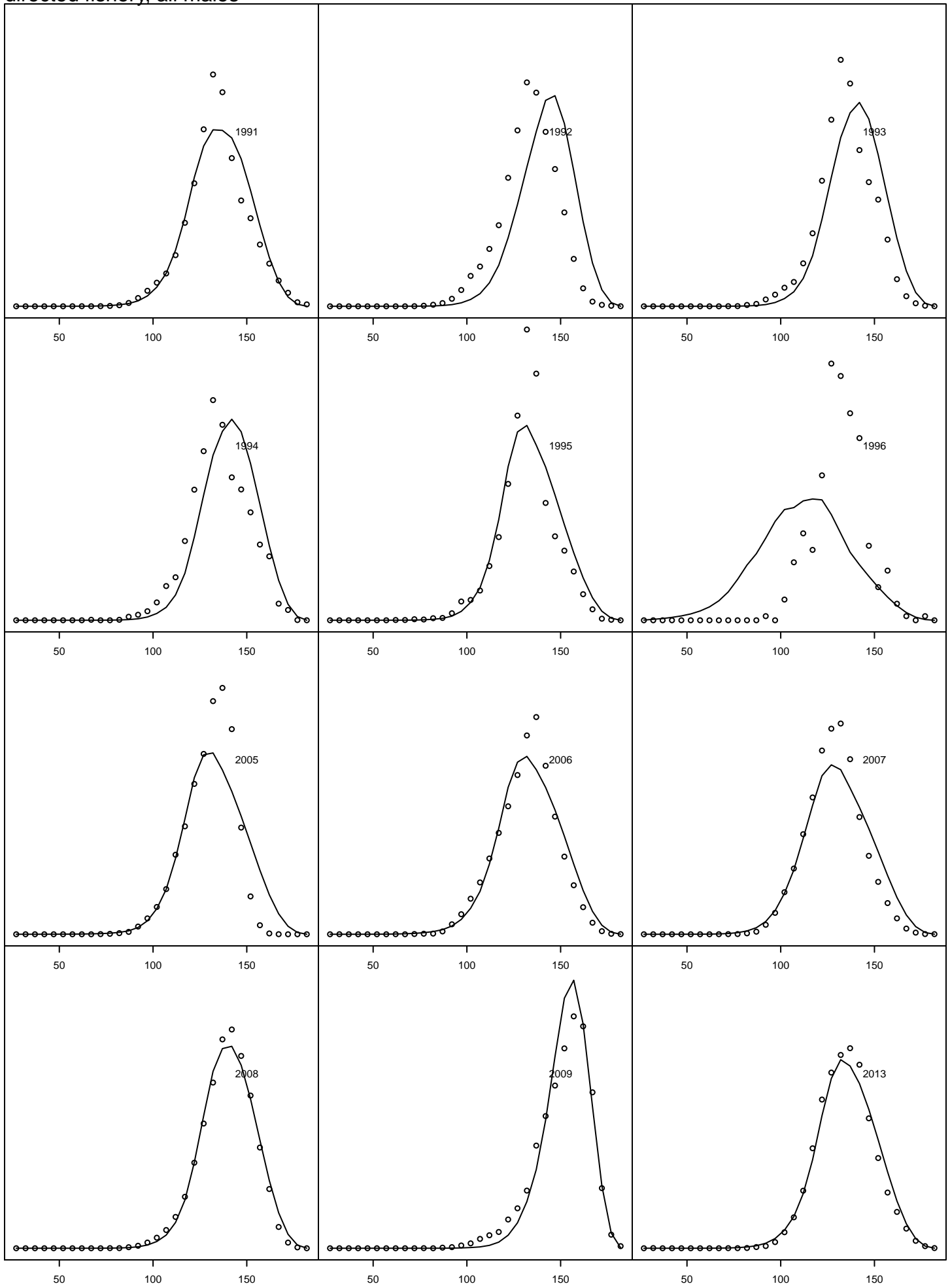
directed fishery, all retained males



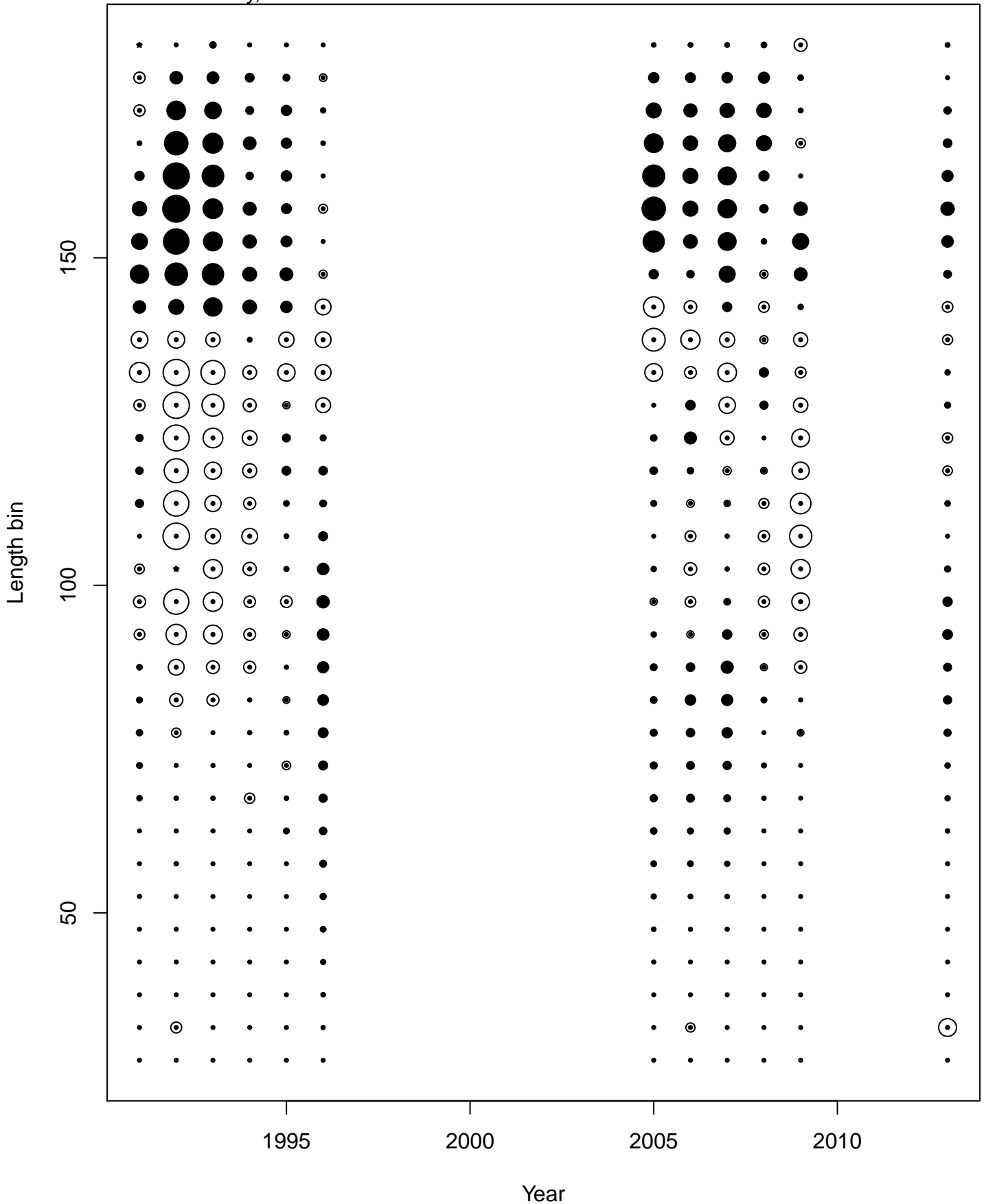
directed fishery, all retained males



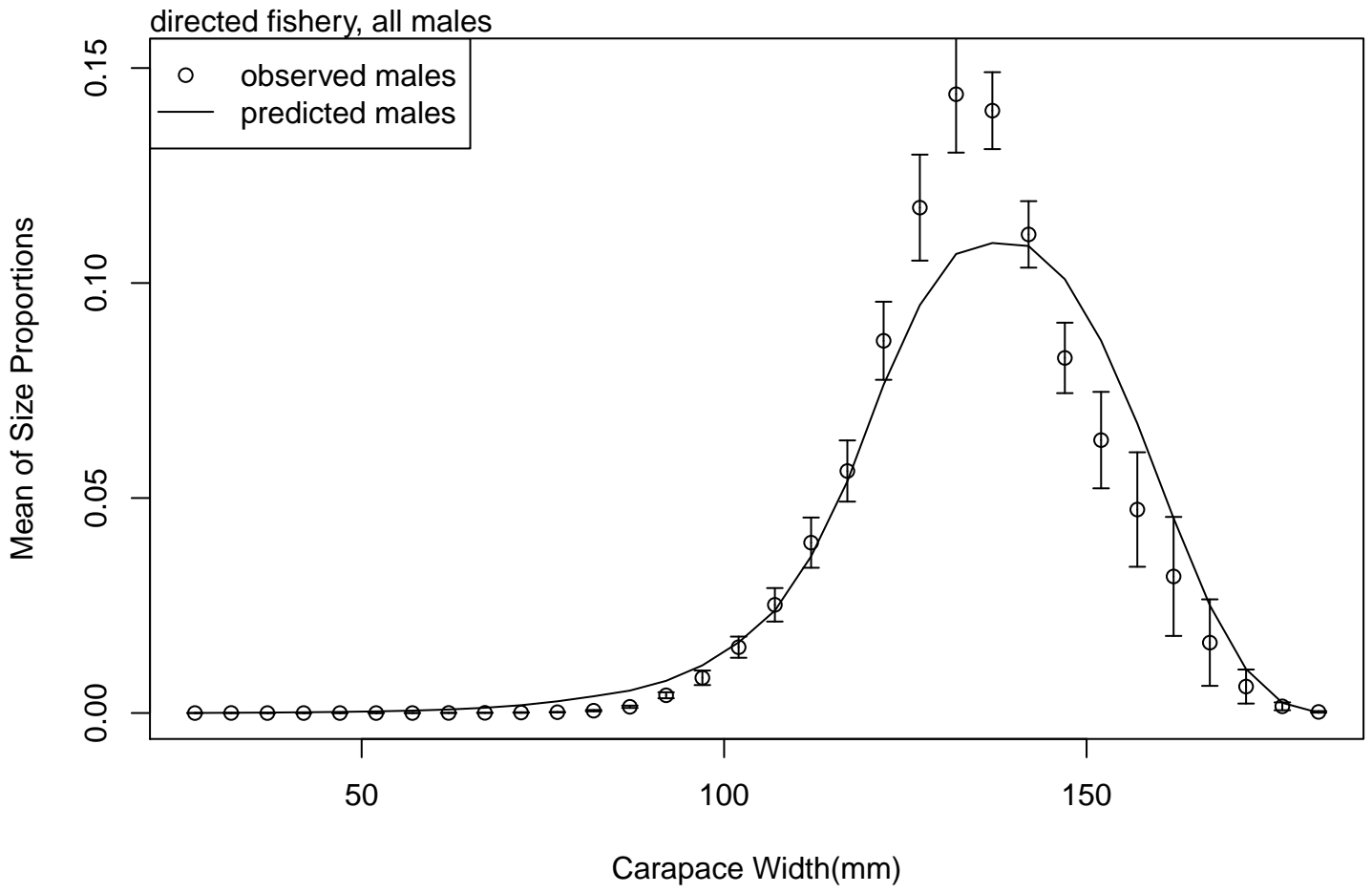
directed fishery, all males



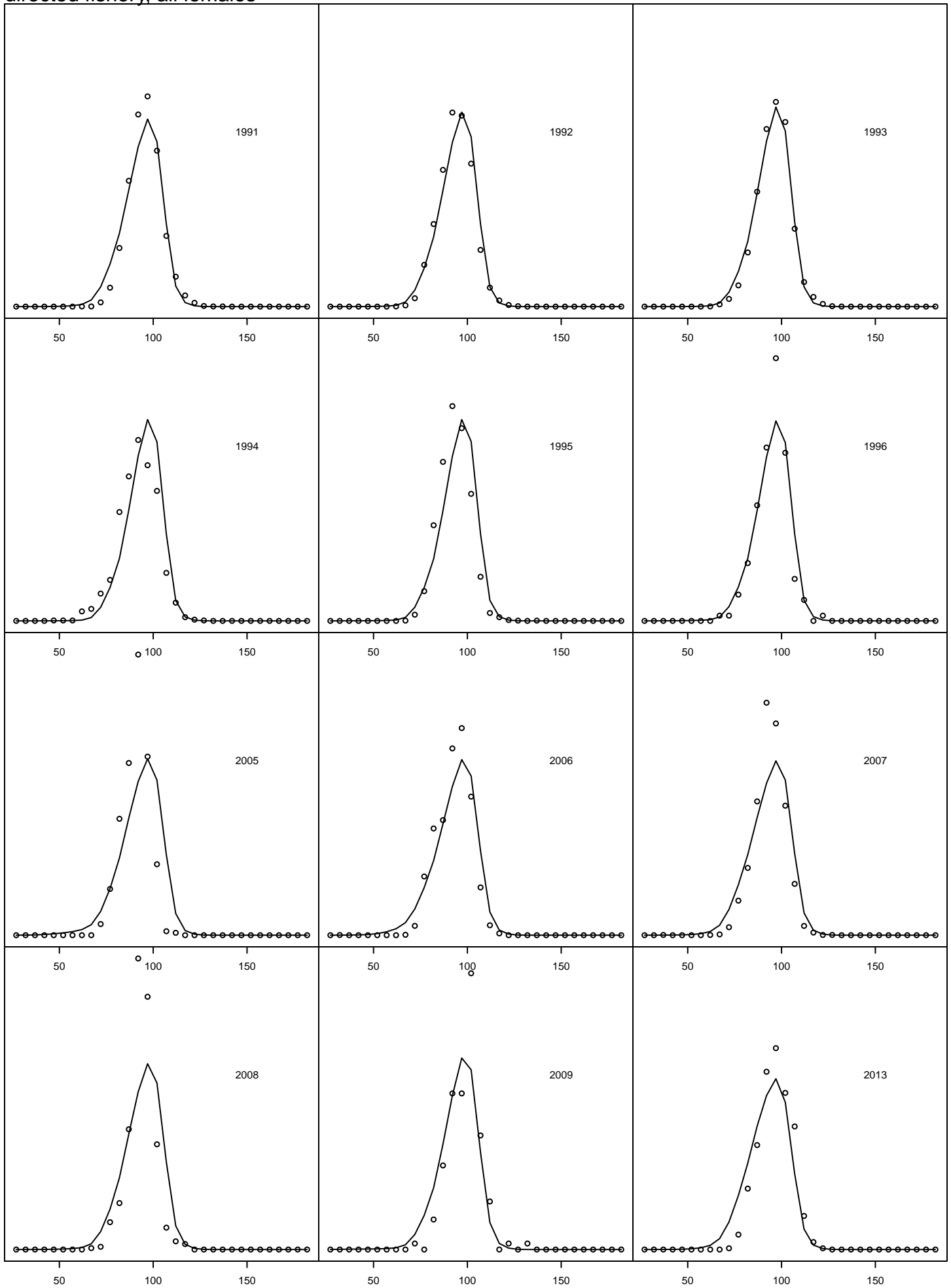
directed fishery, all males



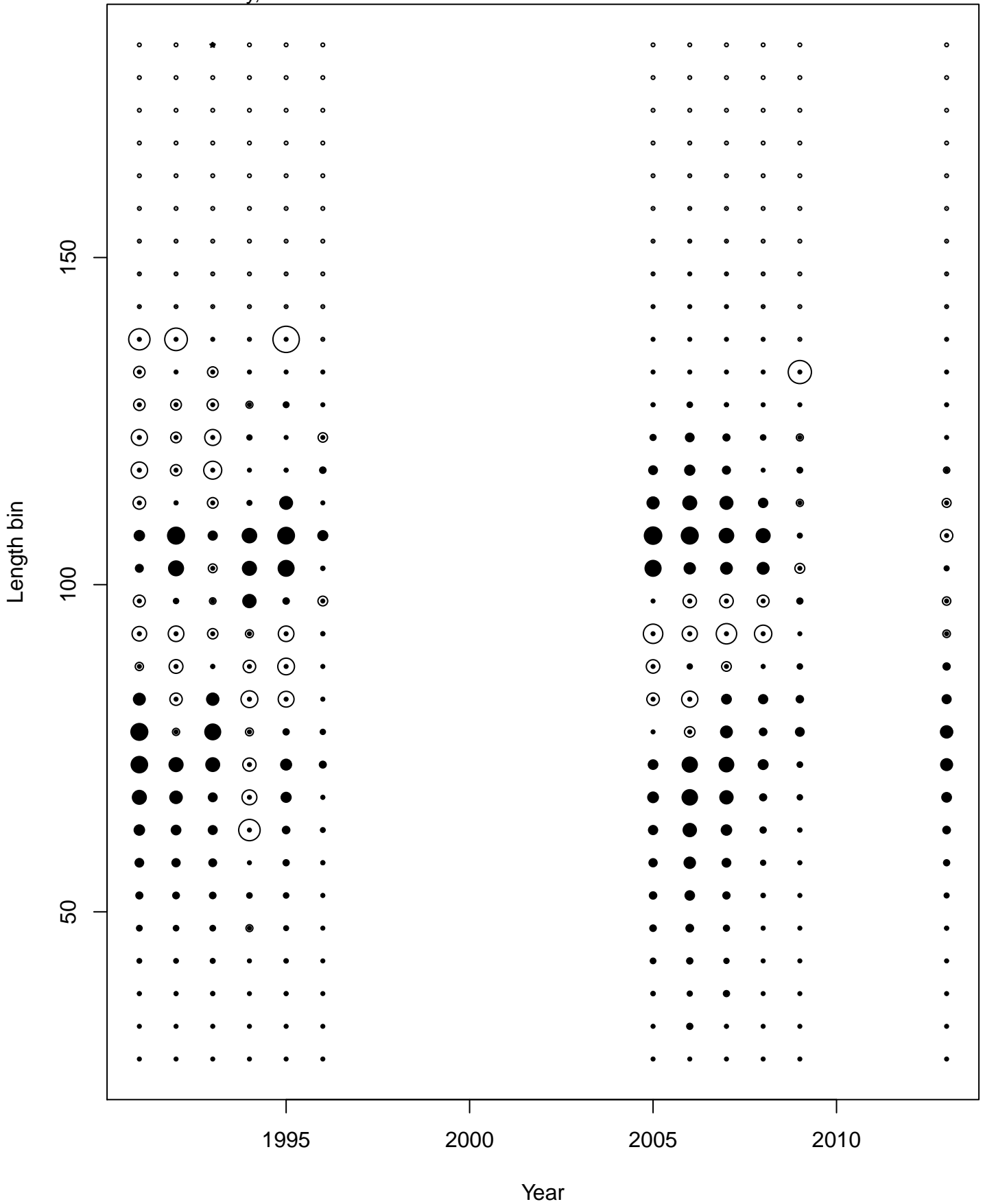
Standardized Pearson Residual Range -2.942 2.843



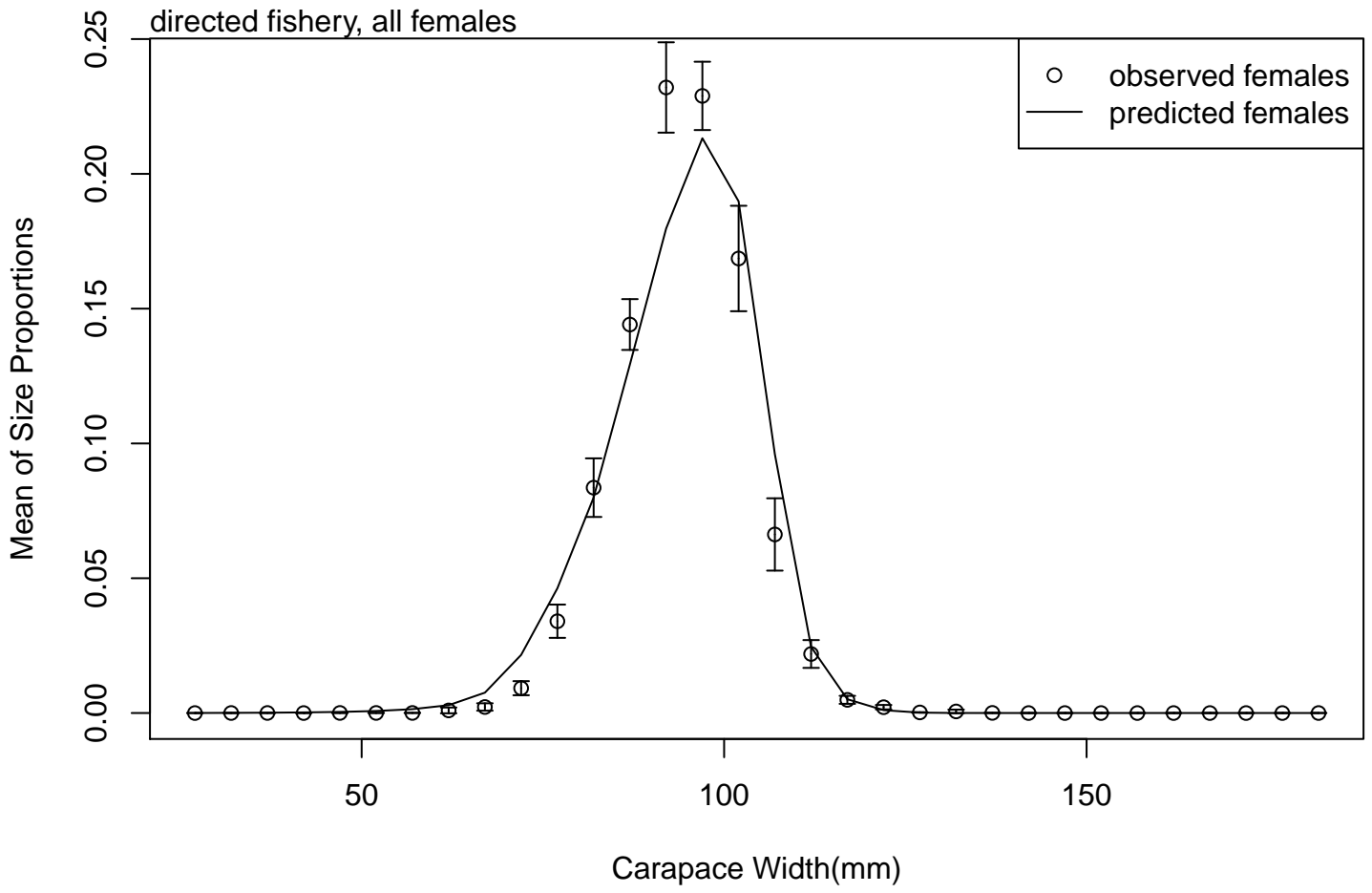
directed fishery, all females



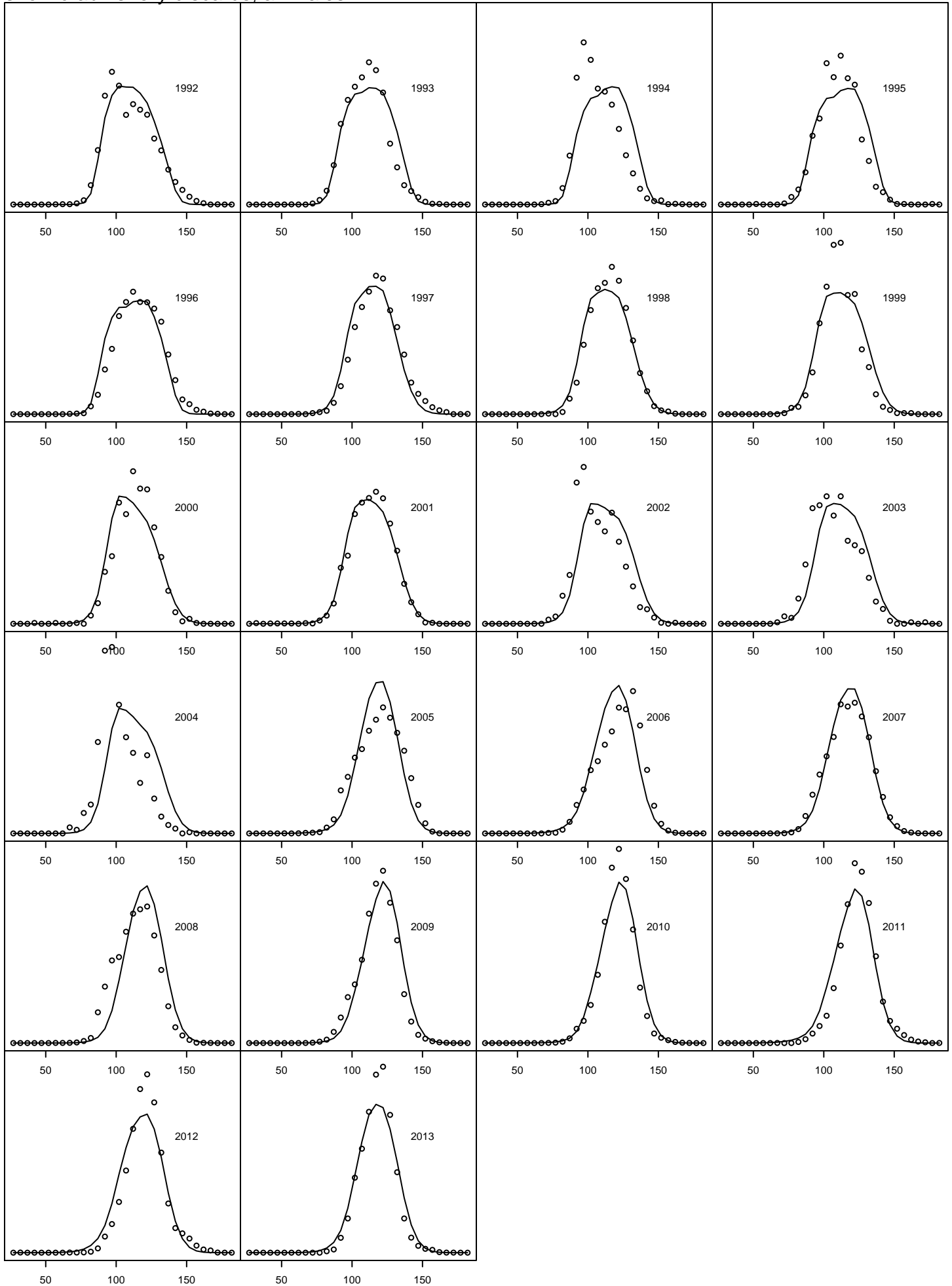
directed fishery, all females



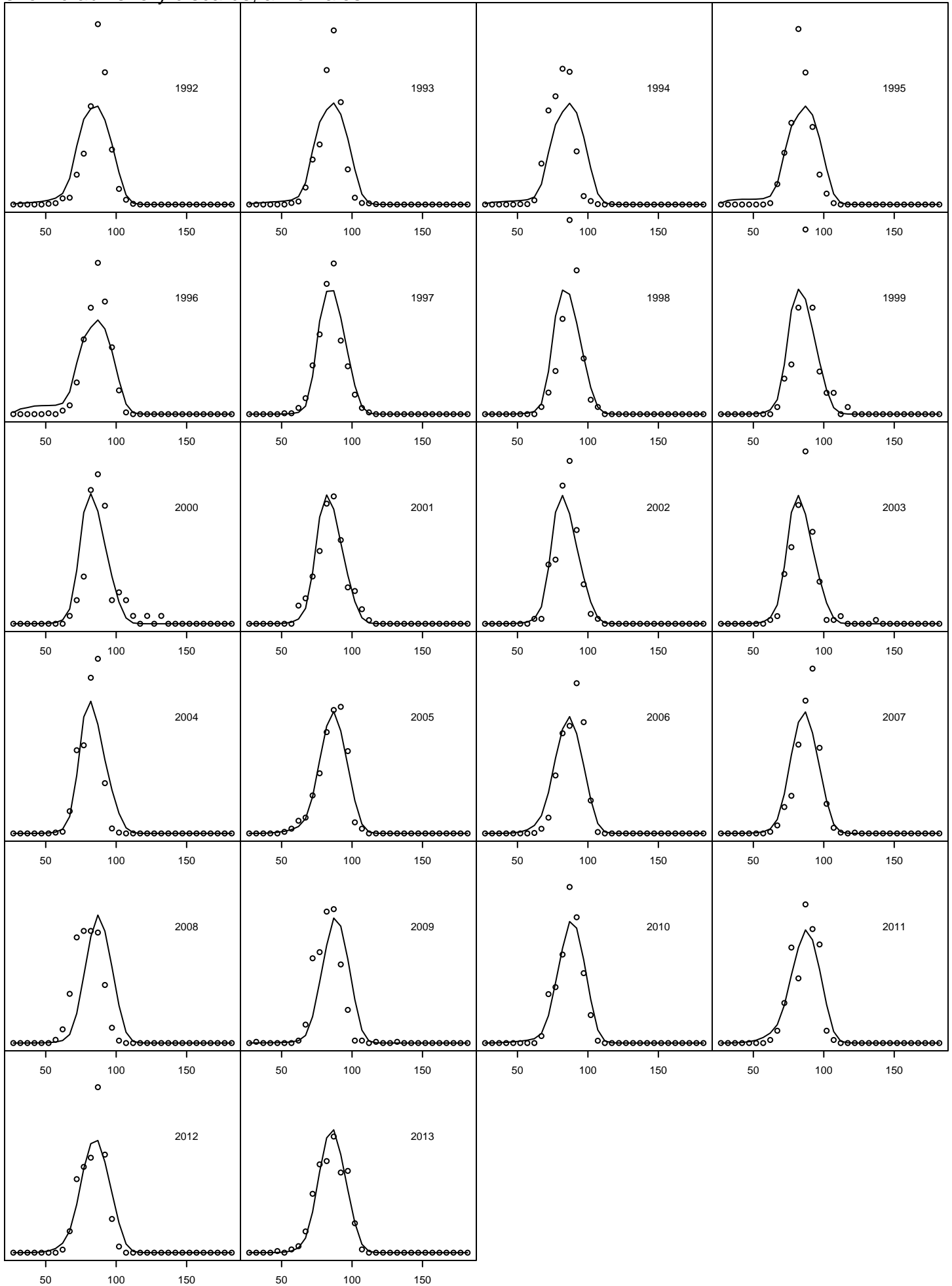
Standardized Pearson Residual Range -0.847 1.968



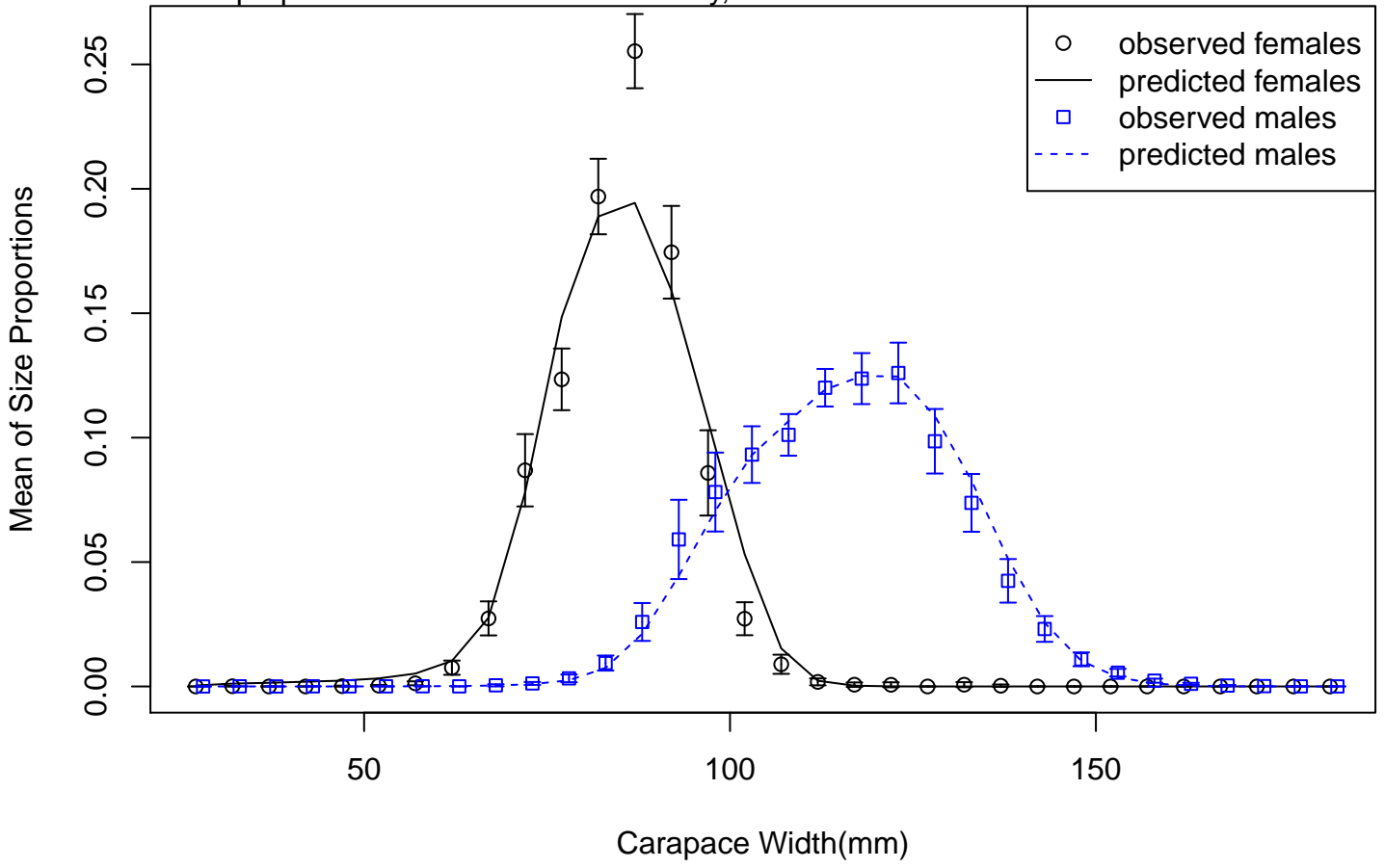
snow crab fishery discards, all males



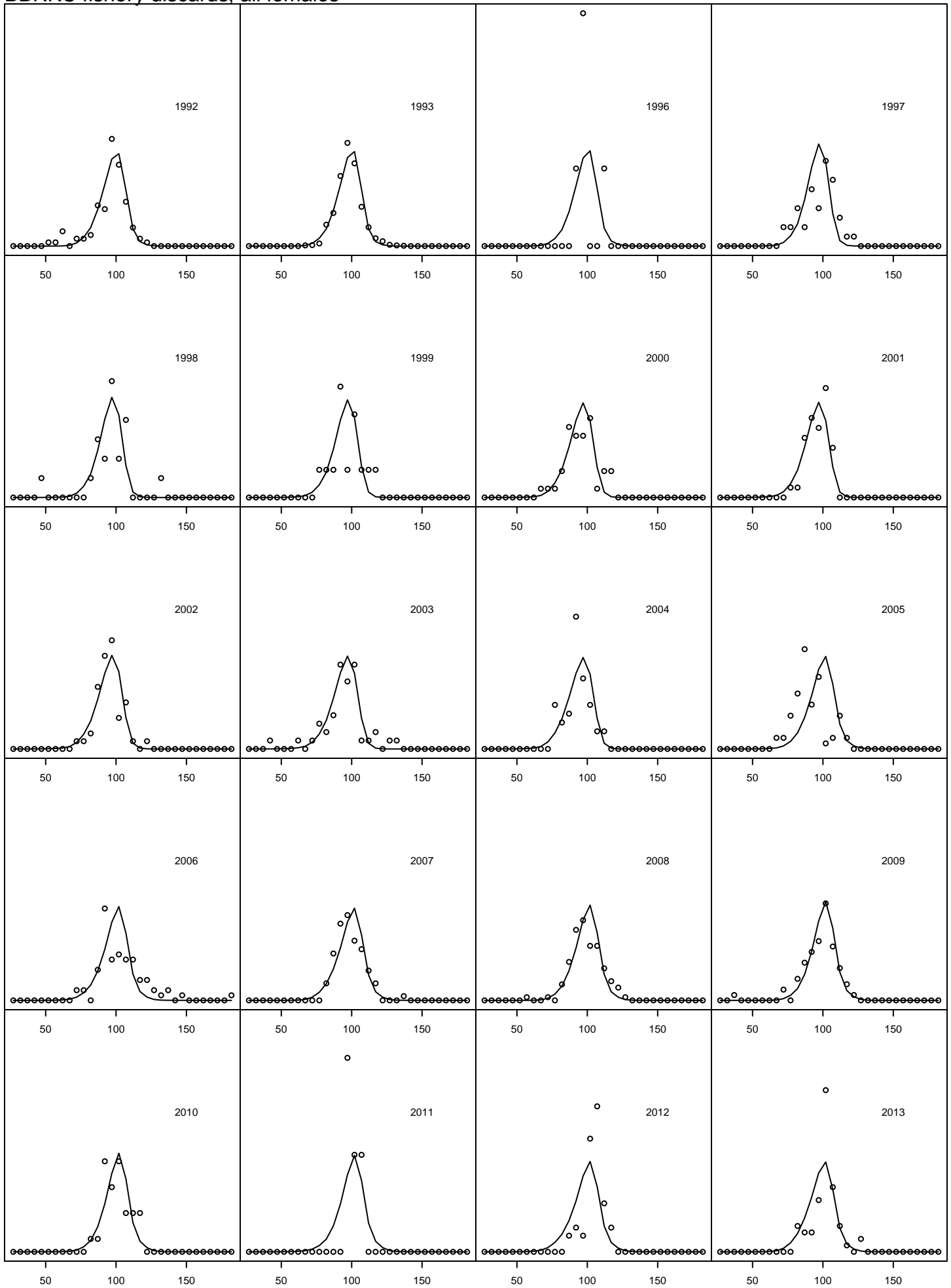
snow crab fishery discards, all females



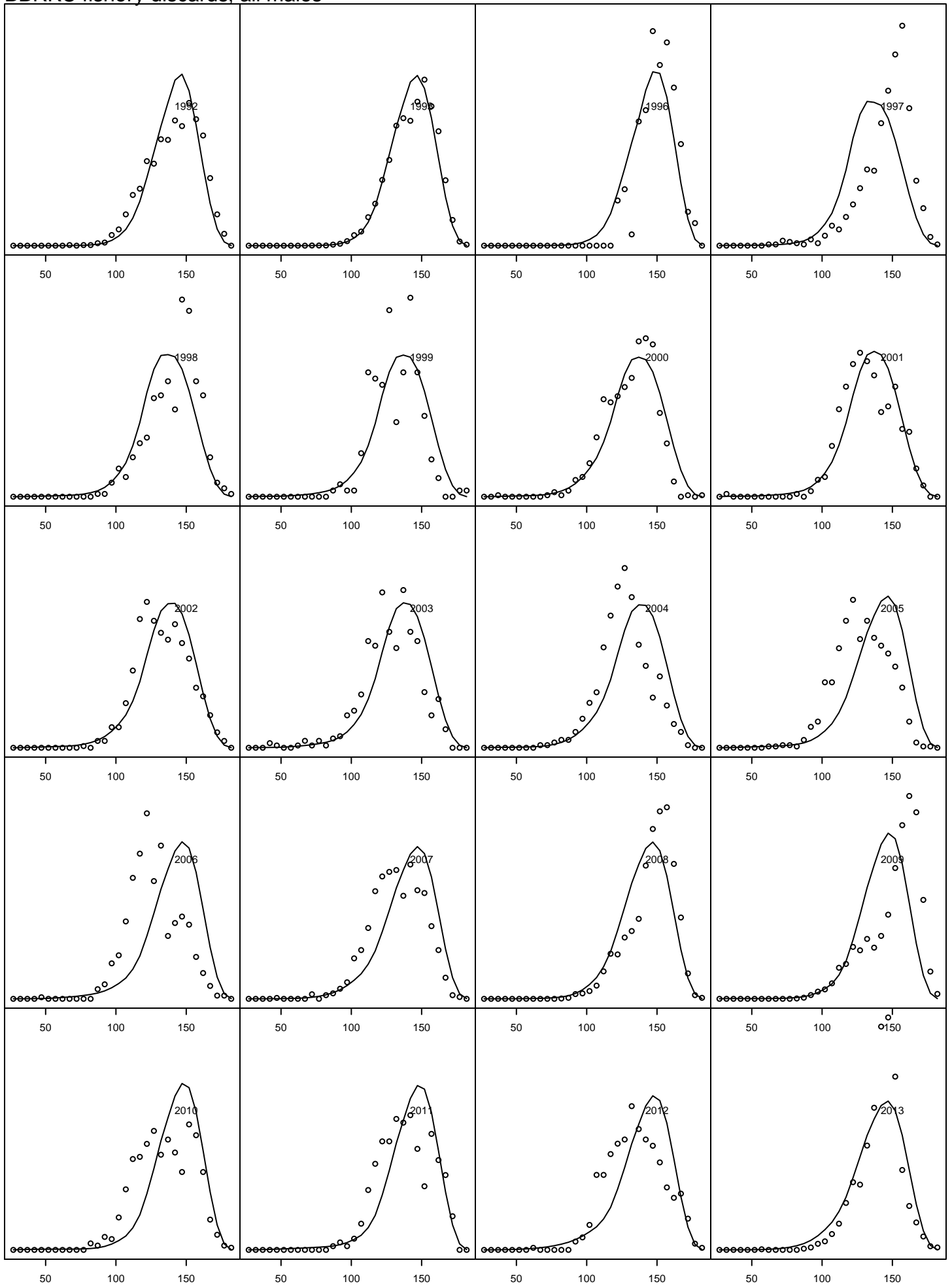
Mean proportions in the snow crab fishery, all individuals



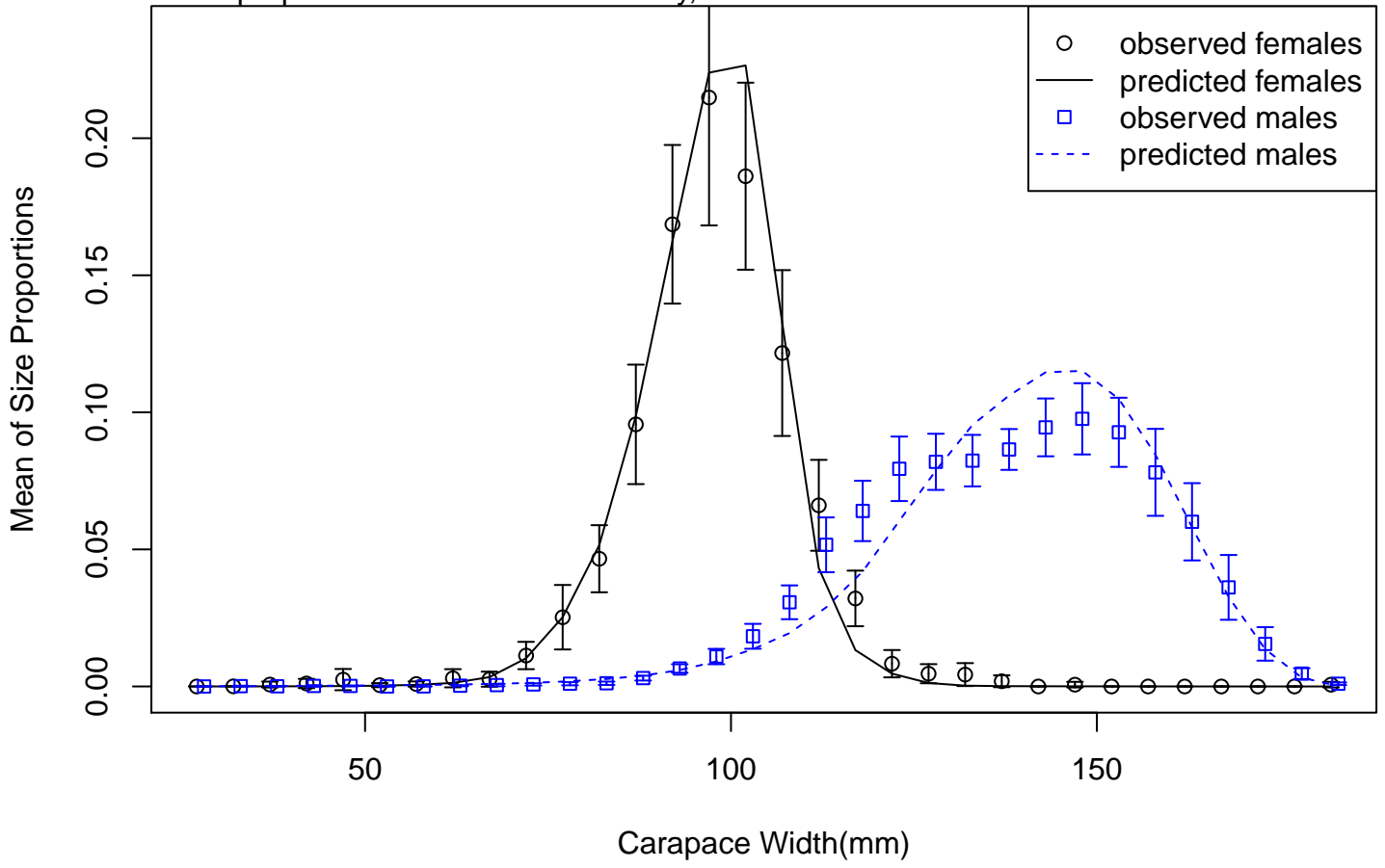
BBRKC fishery discards, all females



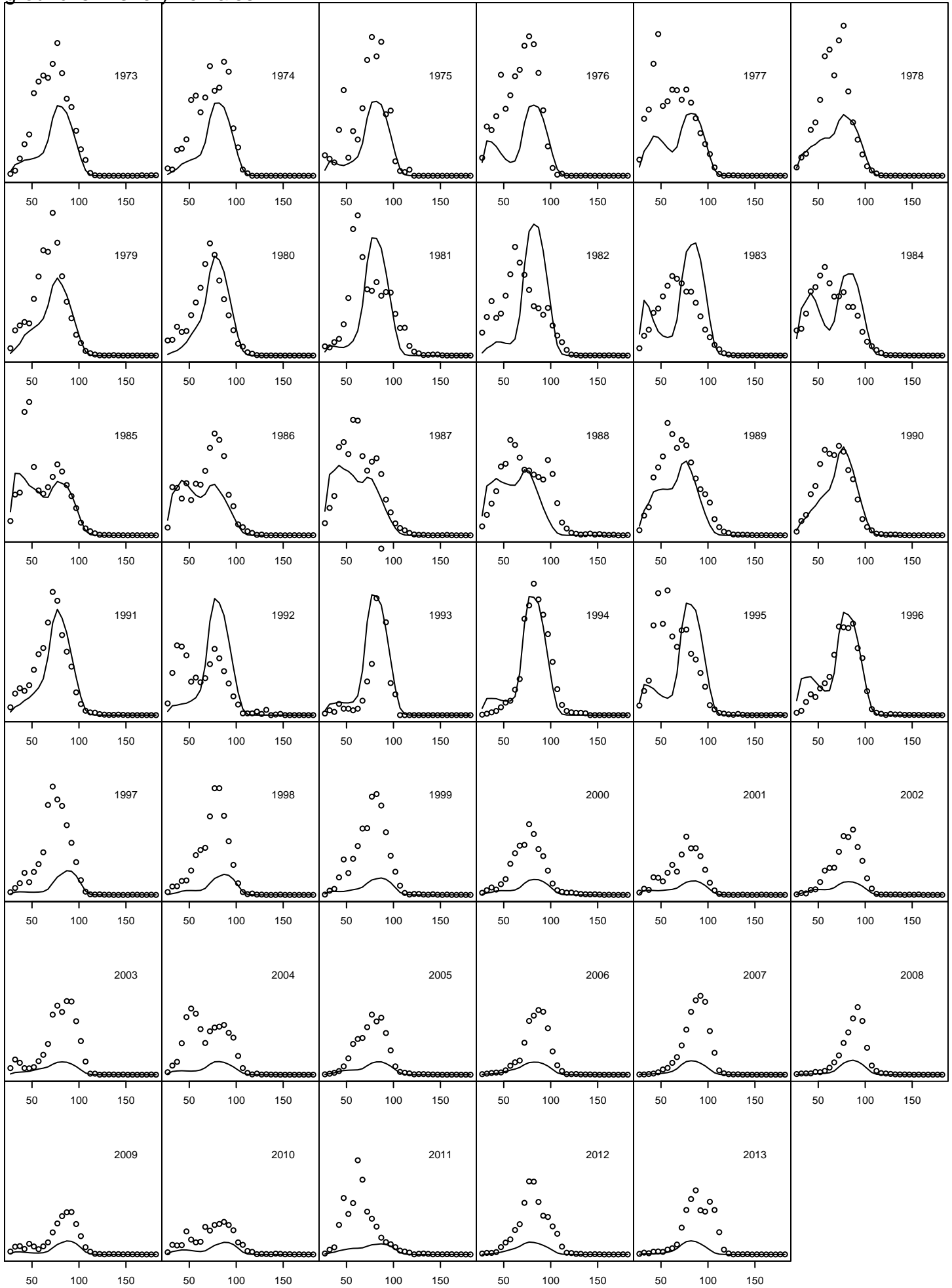
BBRKC fishery discards, all males



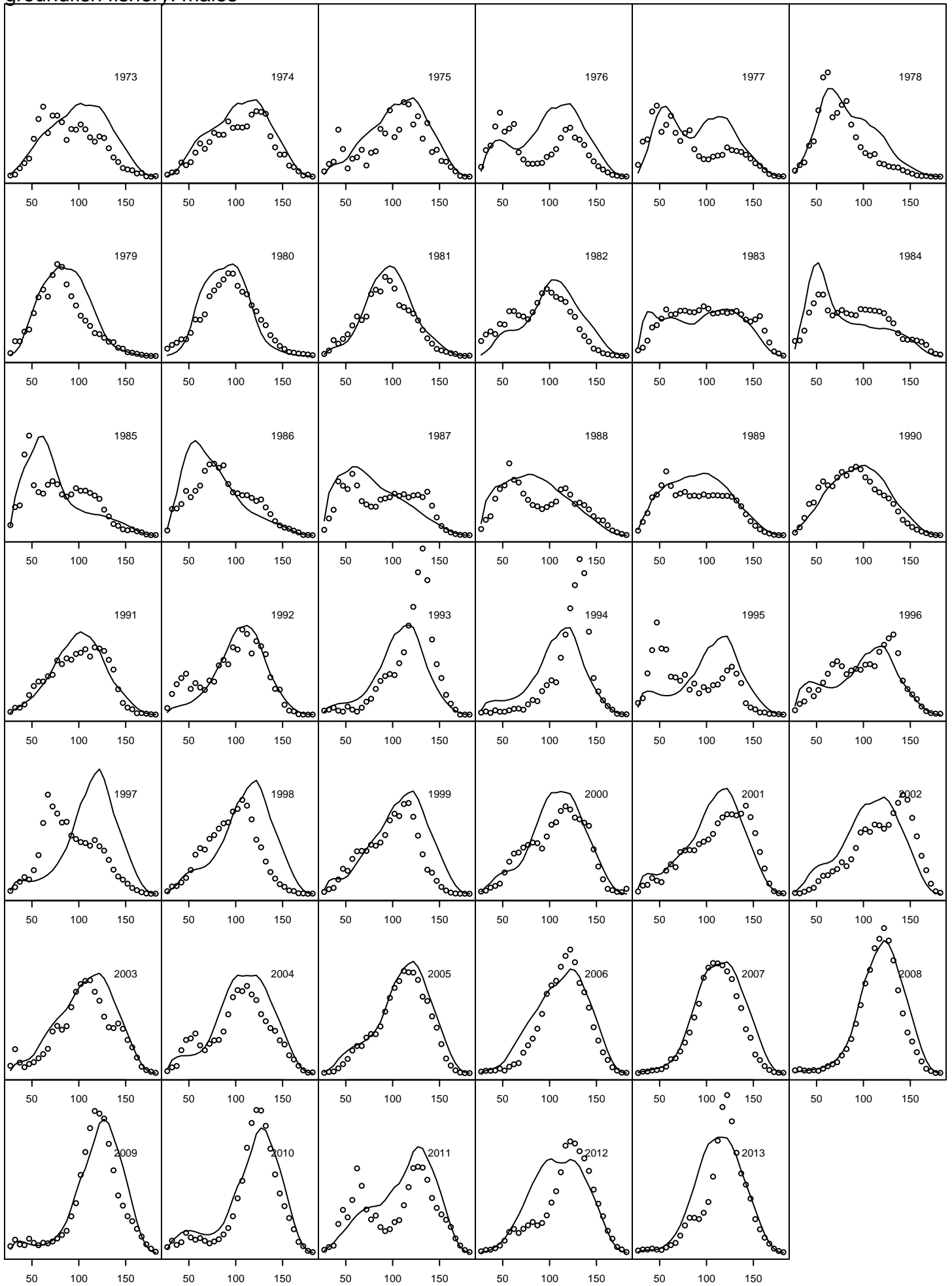
Mean proportions in the BBRKC fishery, all individuals



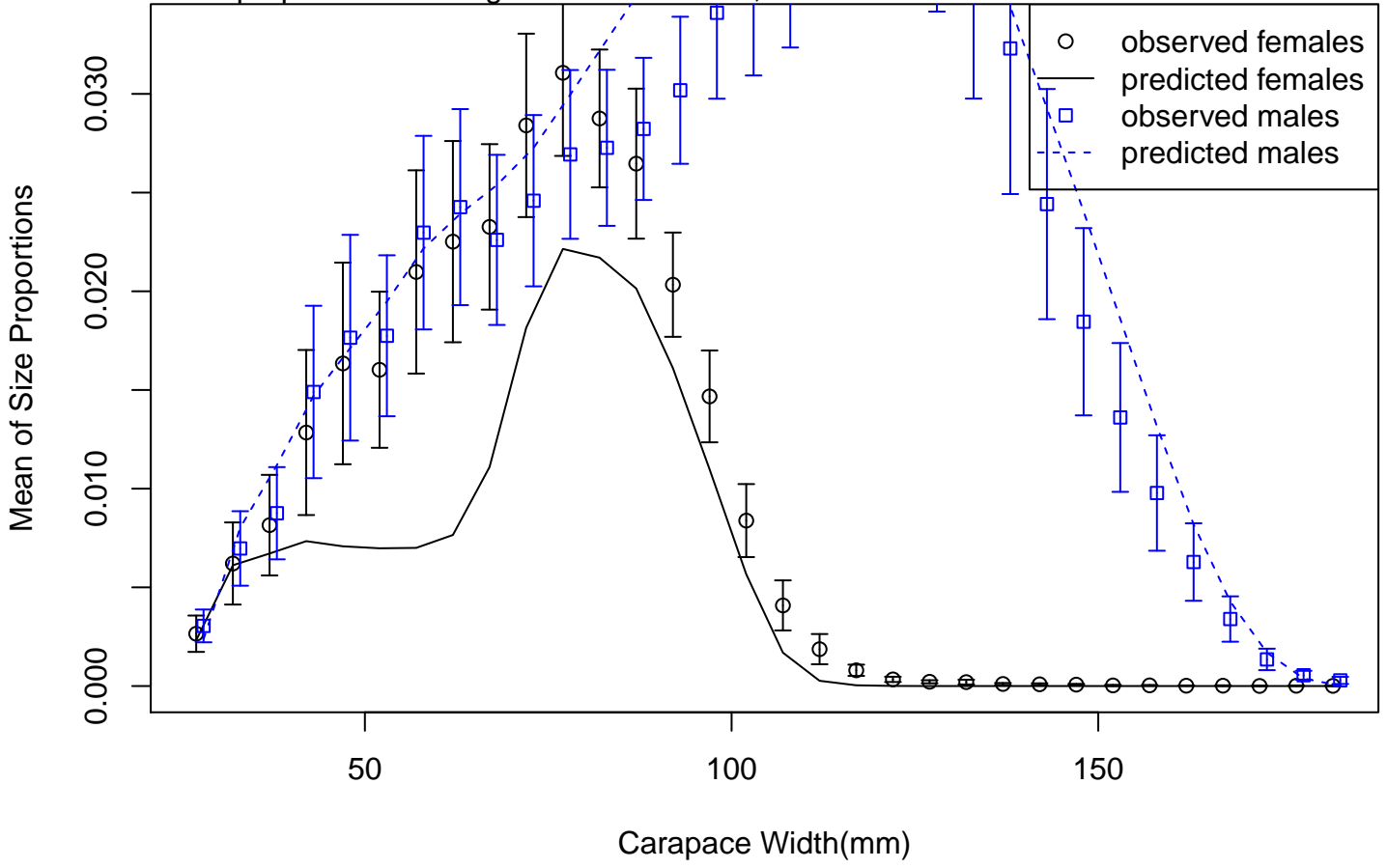
groundfish fishery: females



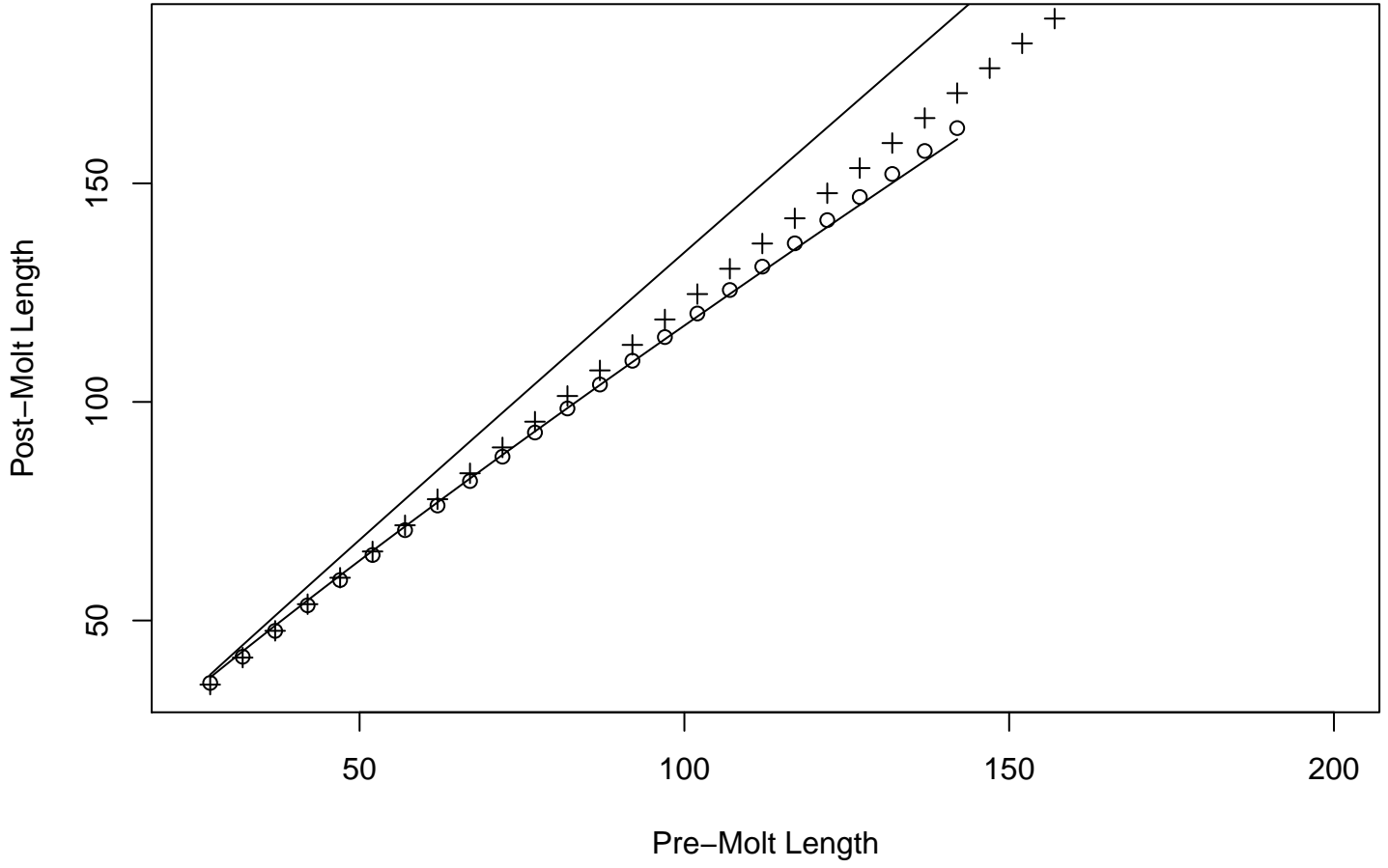
groundfish fishery: males

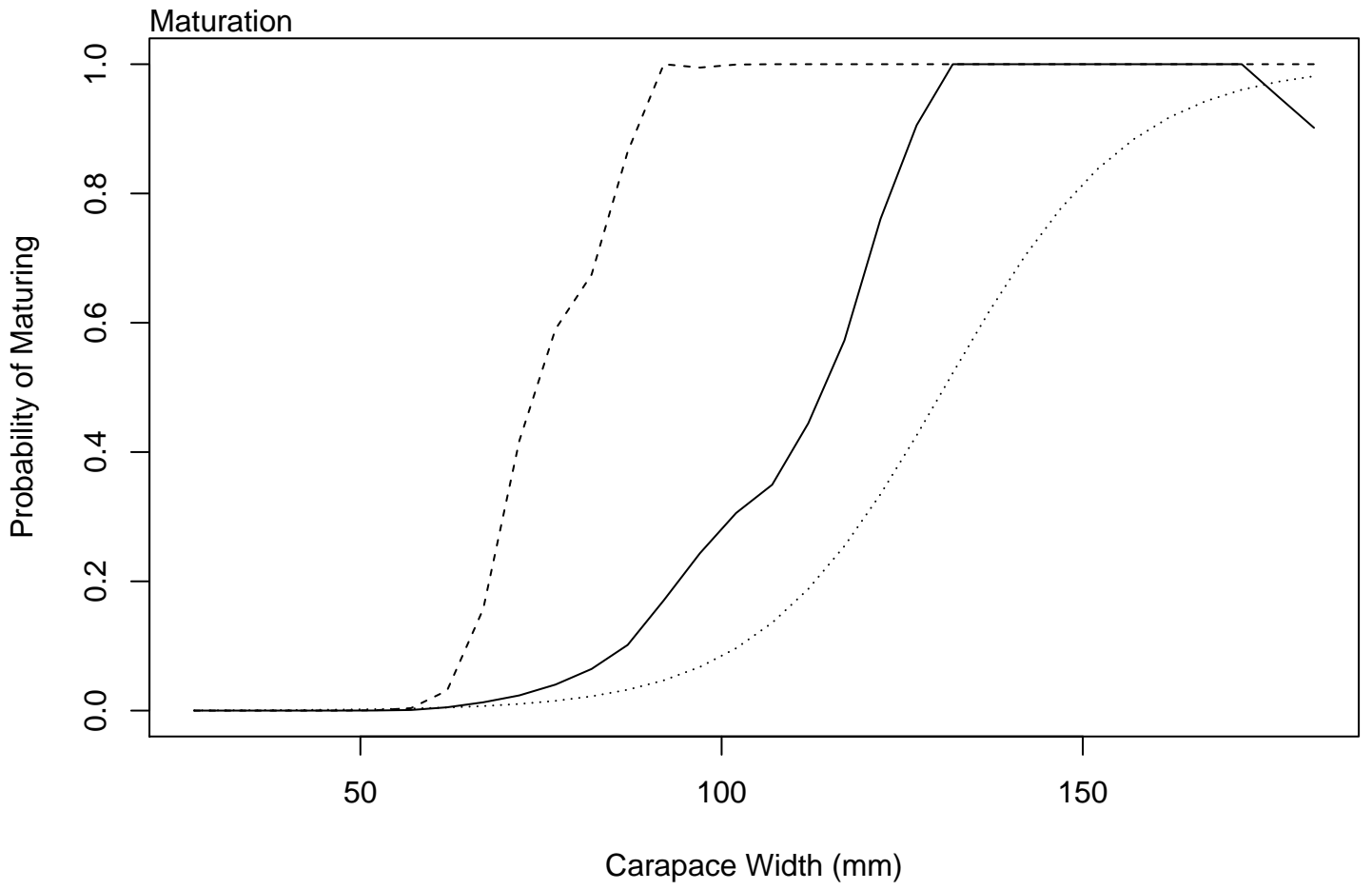


Mean proportions in the groundfish fisheries, all individuals

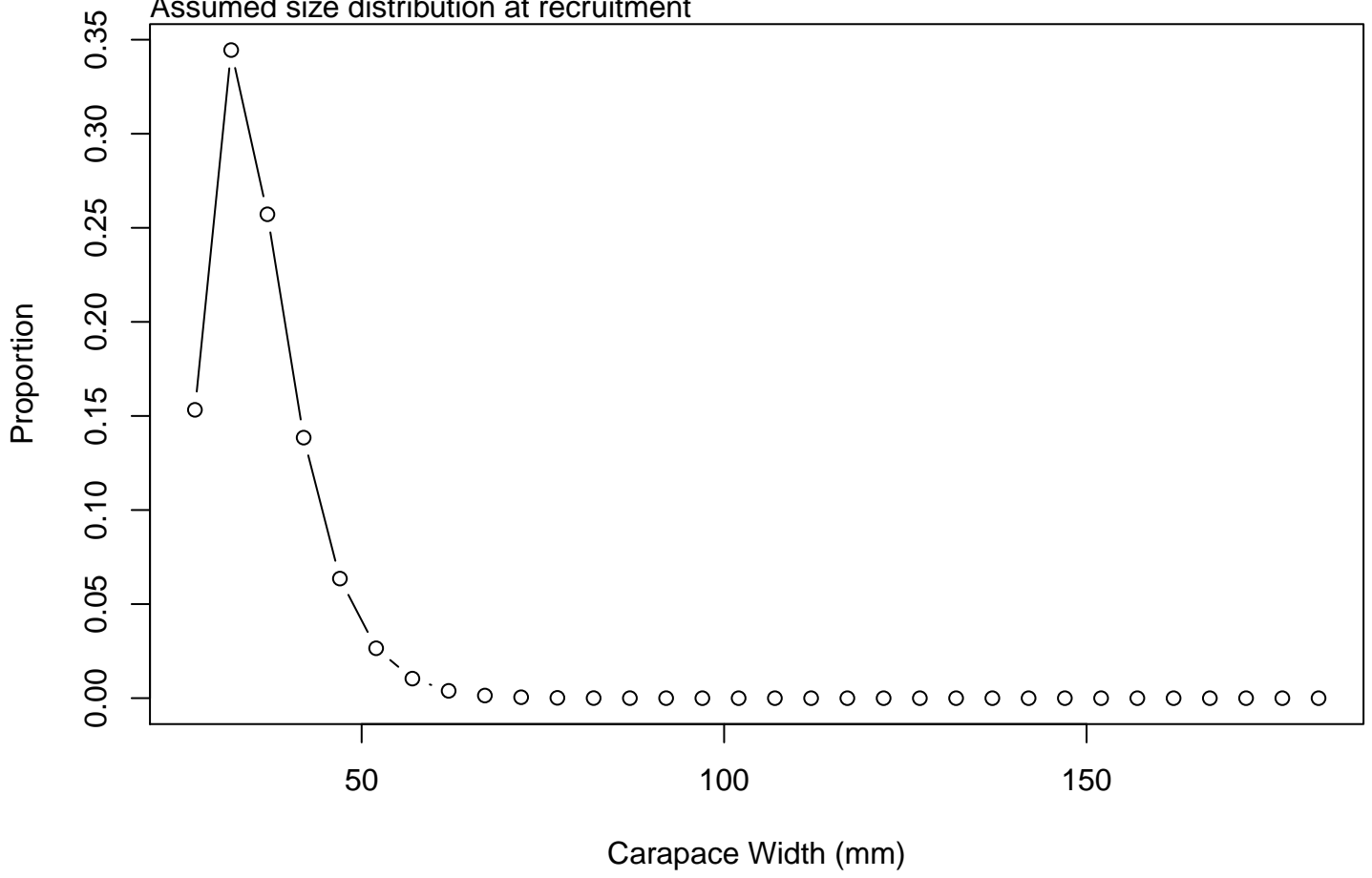


Growth

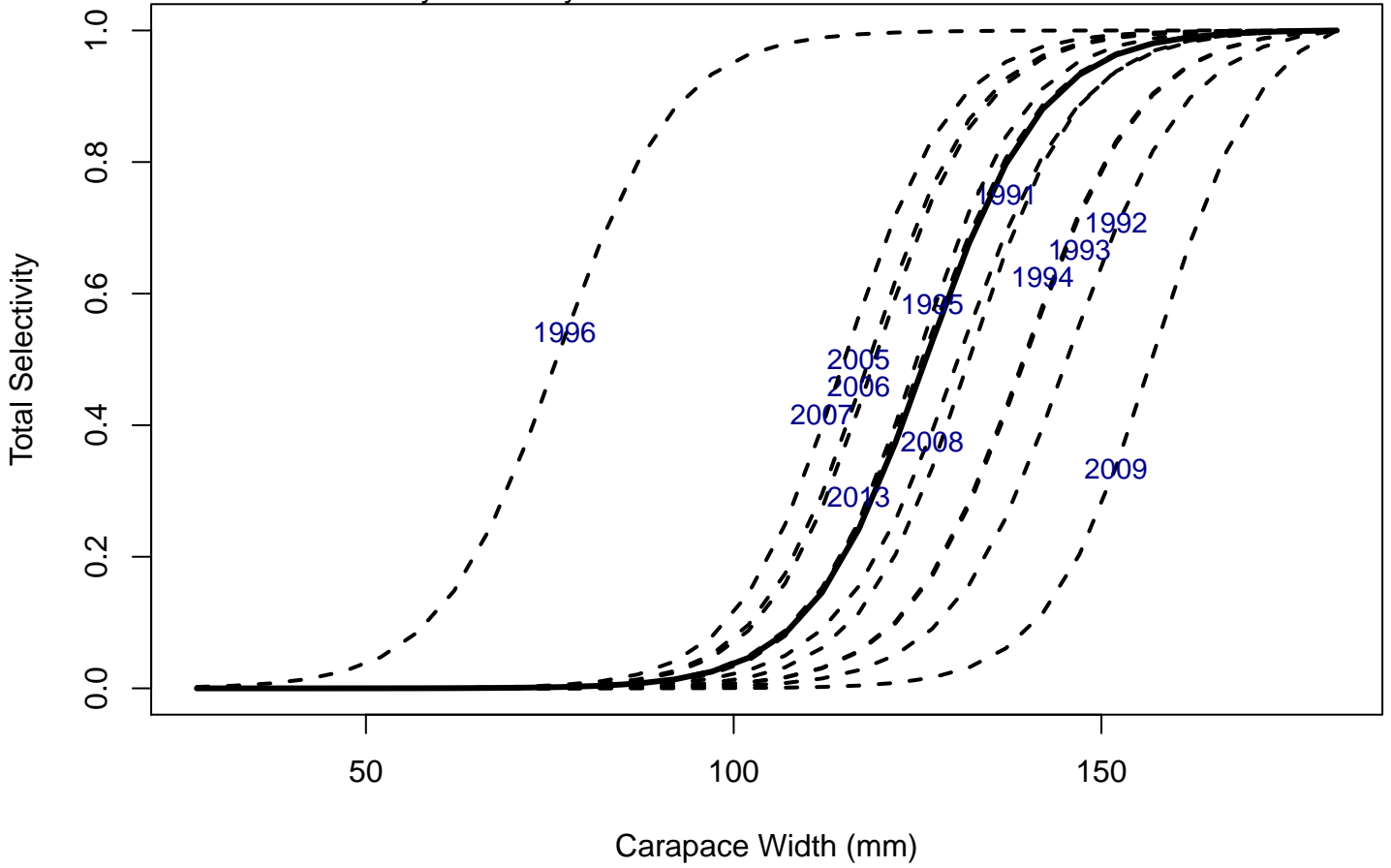




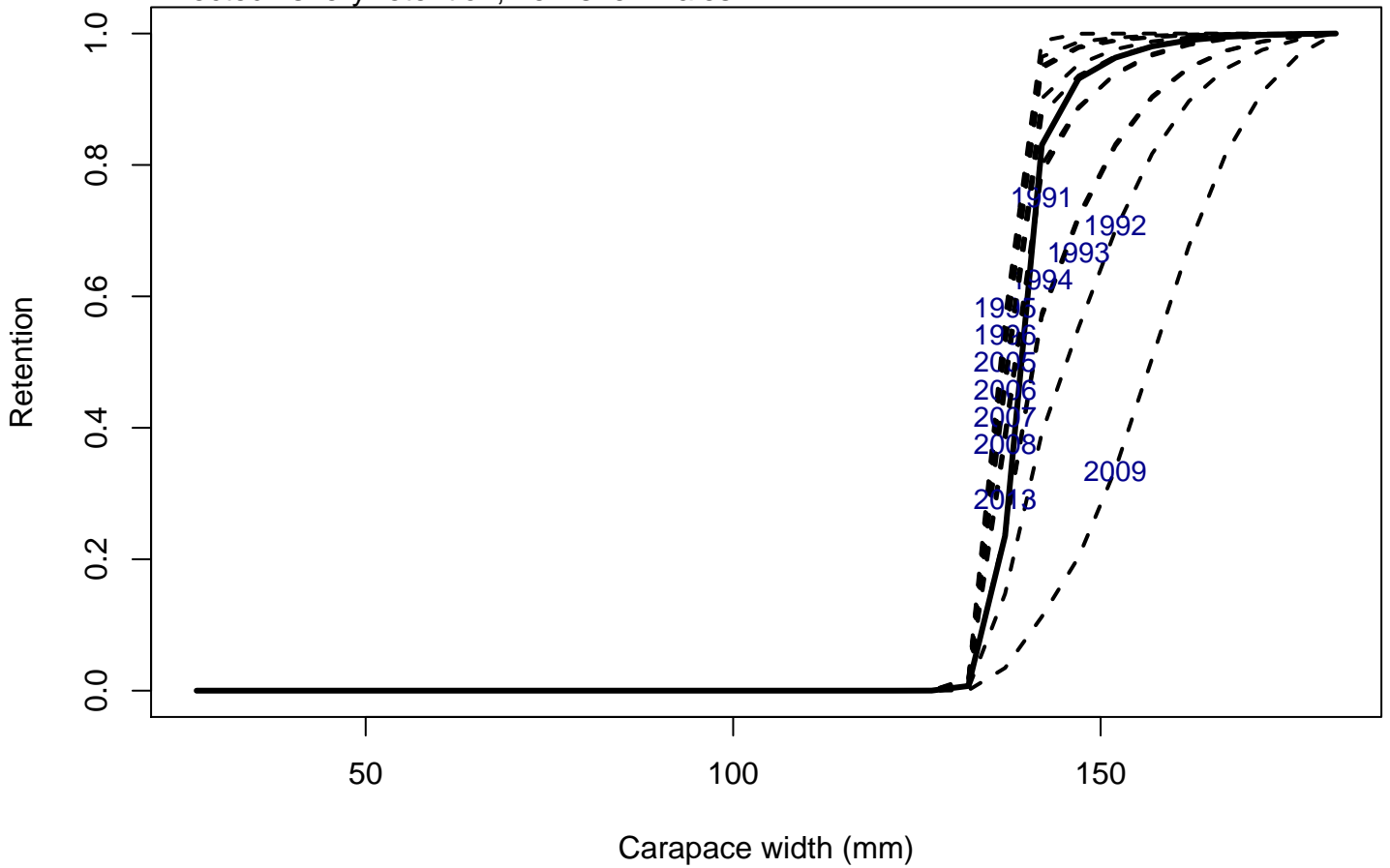
Assumed size distribution at recruitment



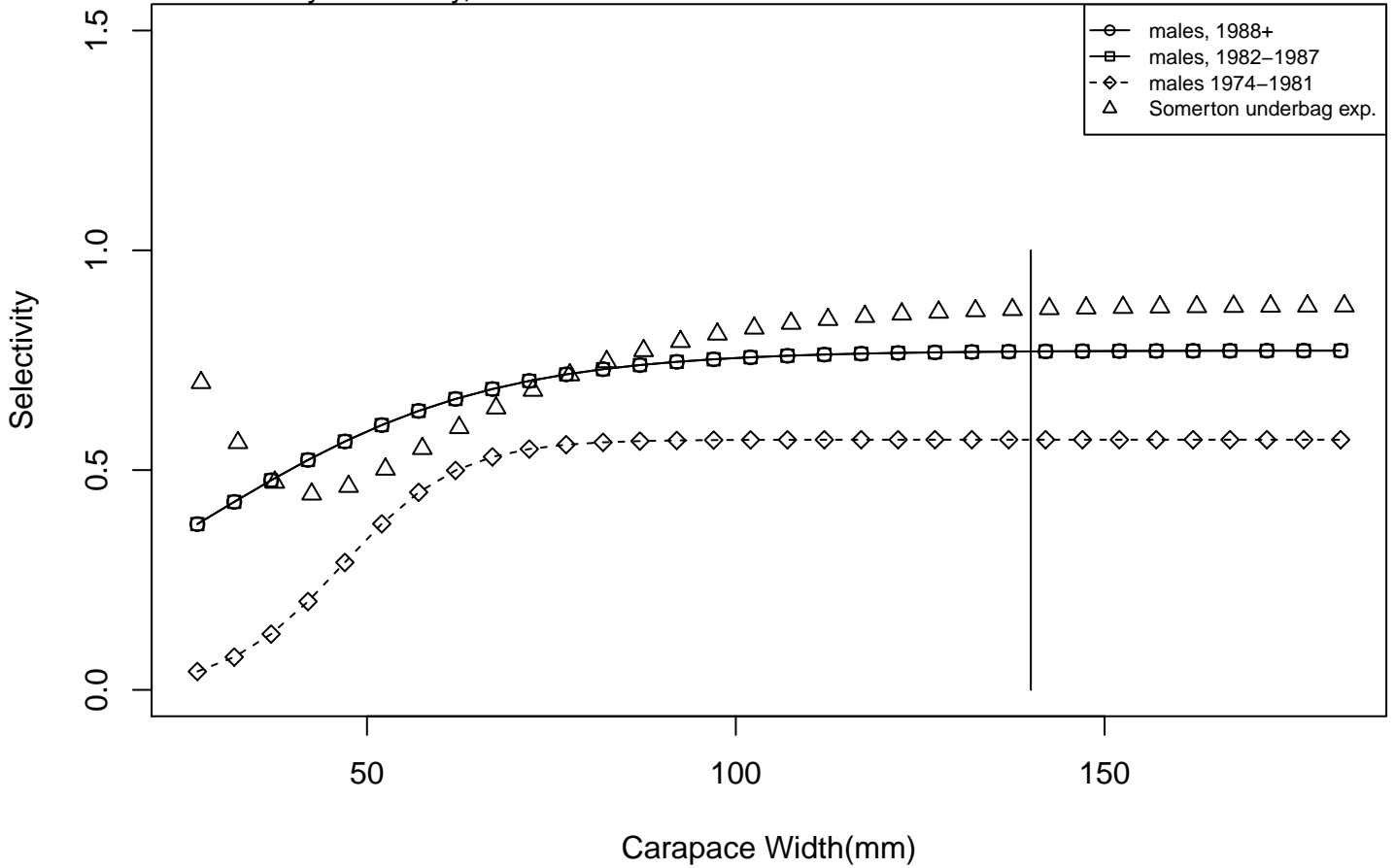
Total directed fishery selectivity on new shell males



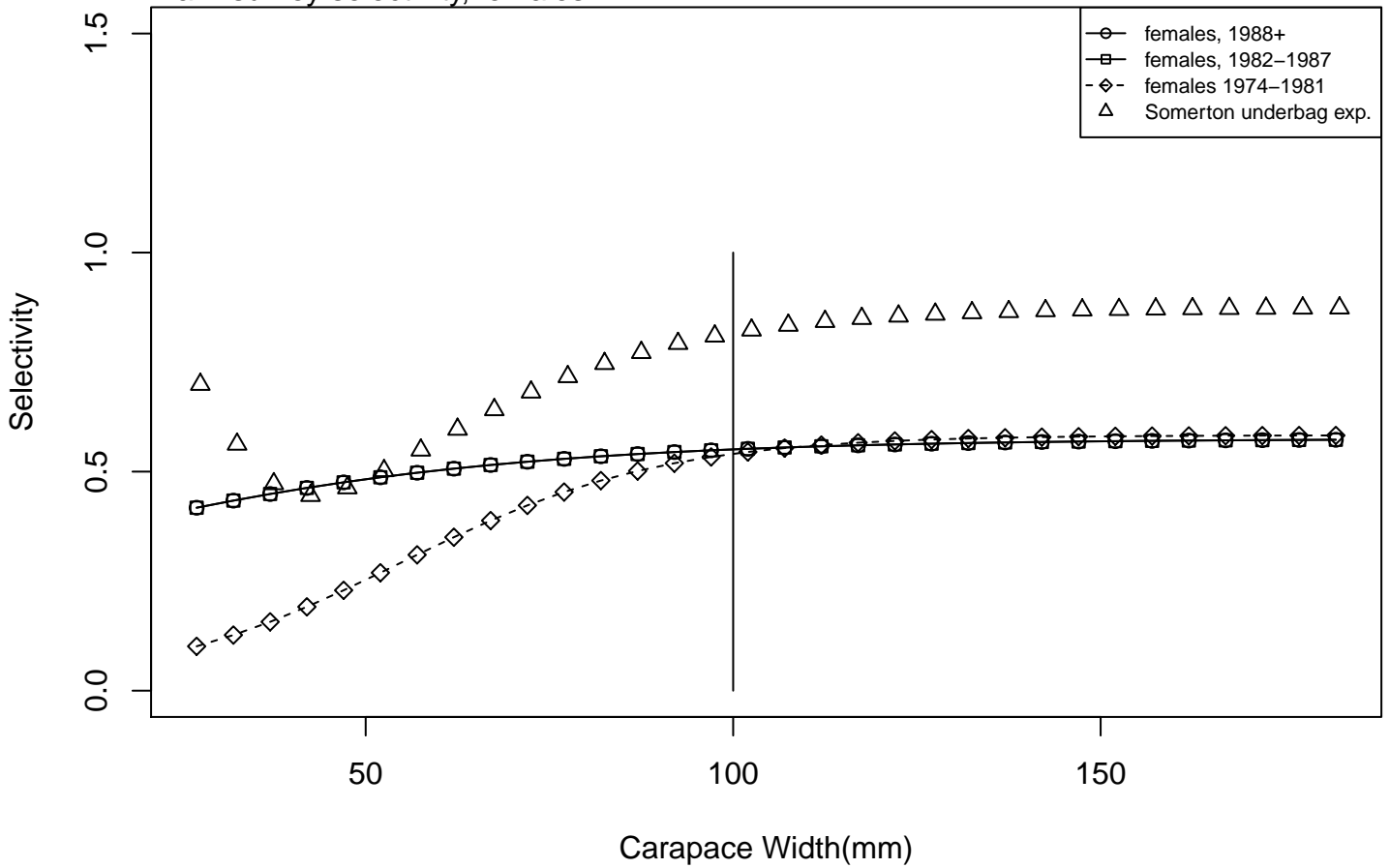
Directed fishery retention, new shell males



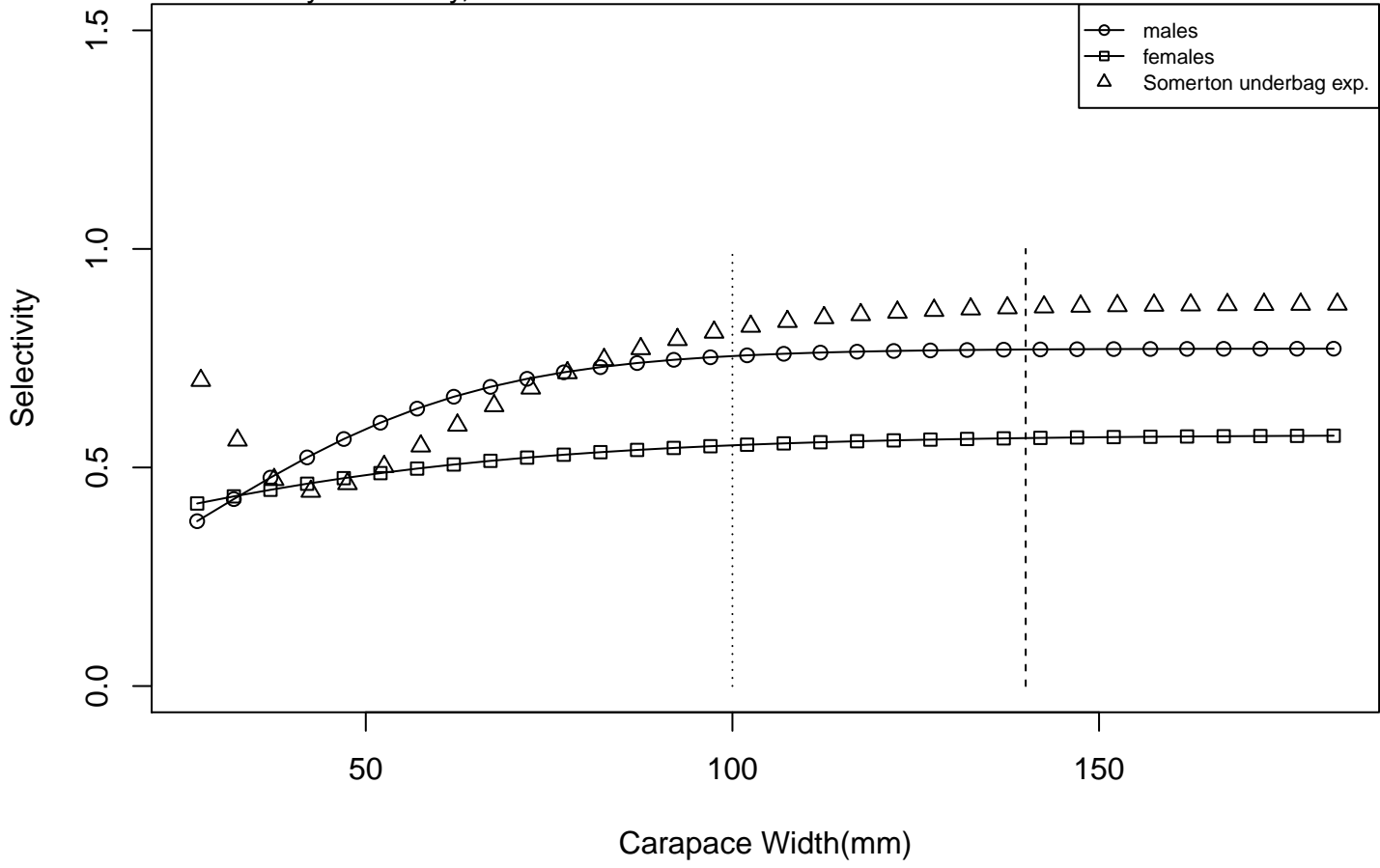
Trawl survey selectivity, males



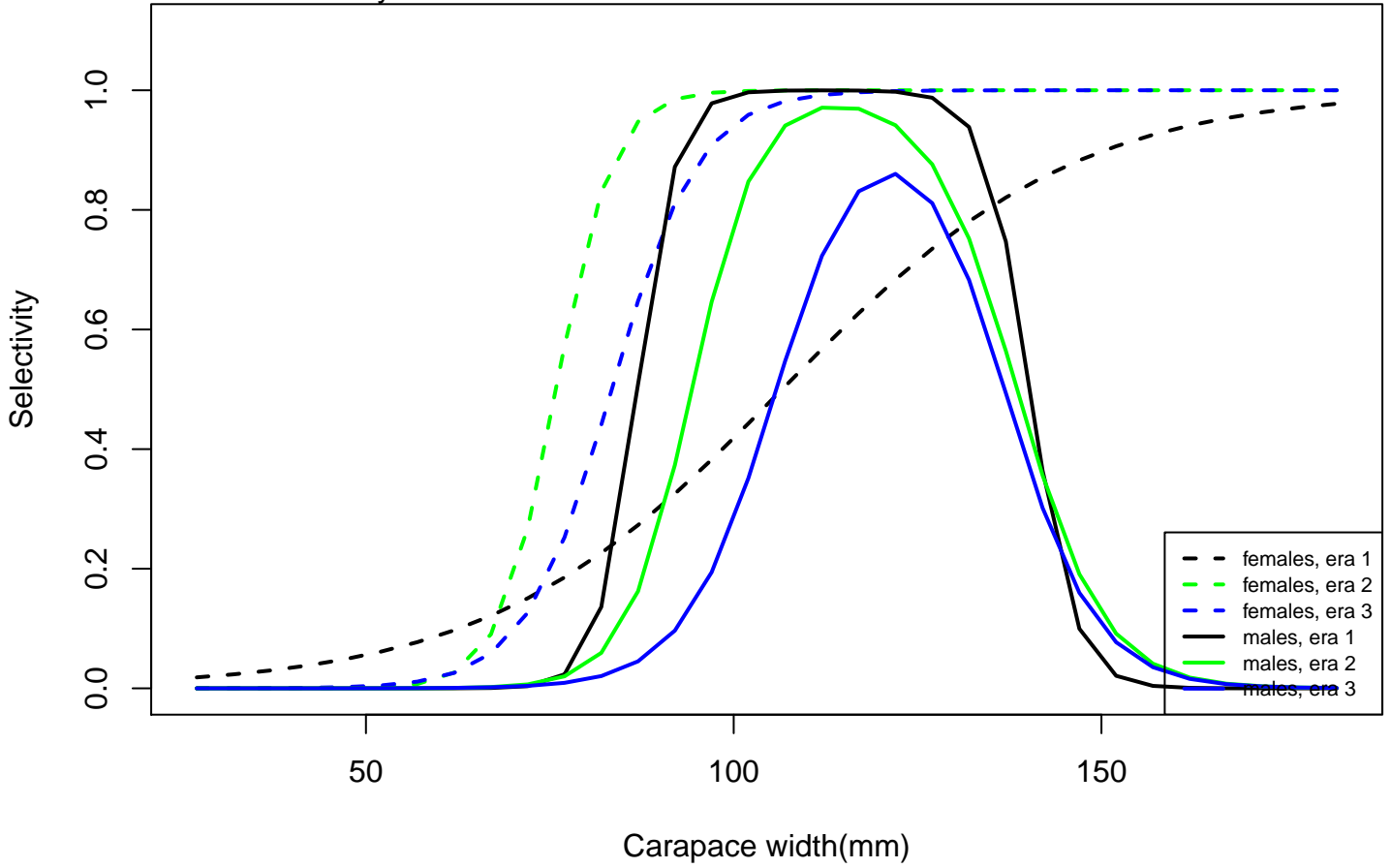
Trawl survey selectivity, females



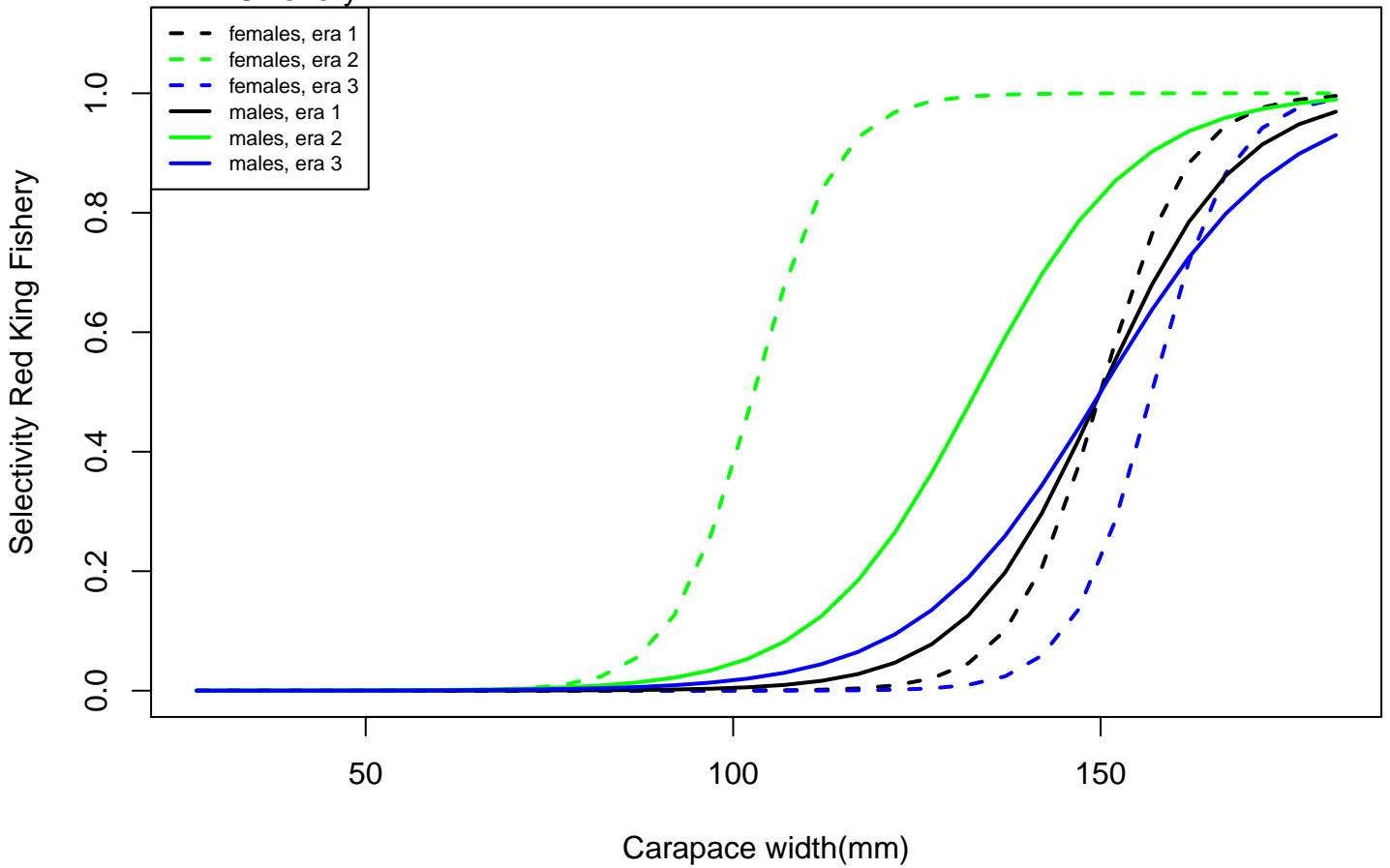
Trawl survey selectivity, 1988+



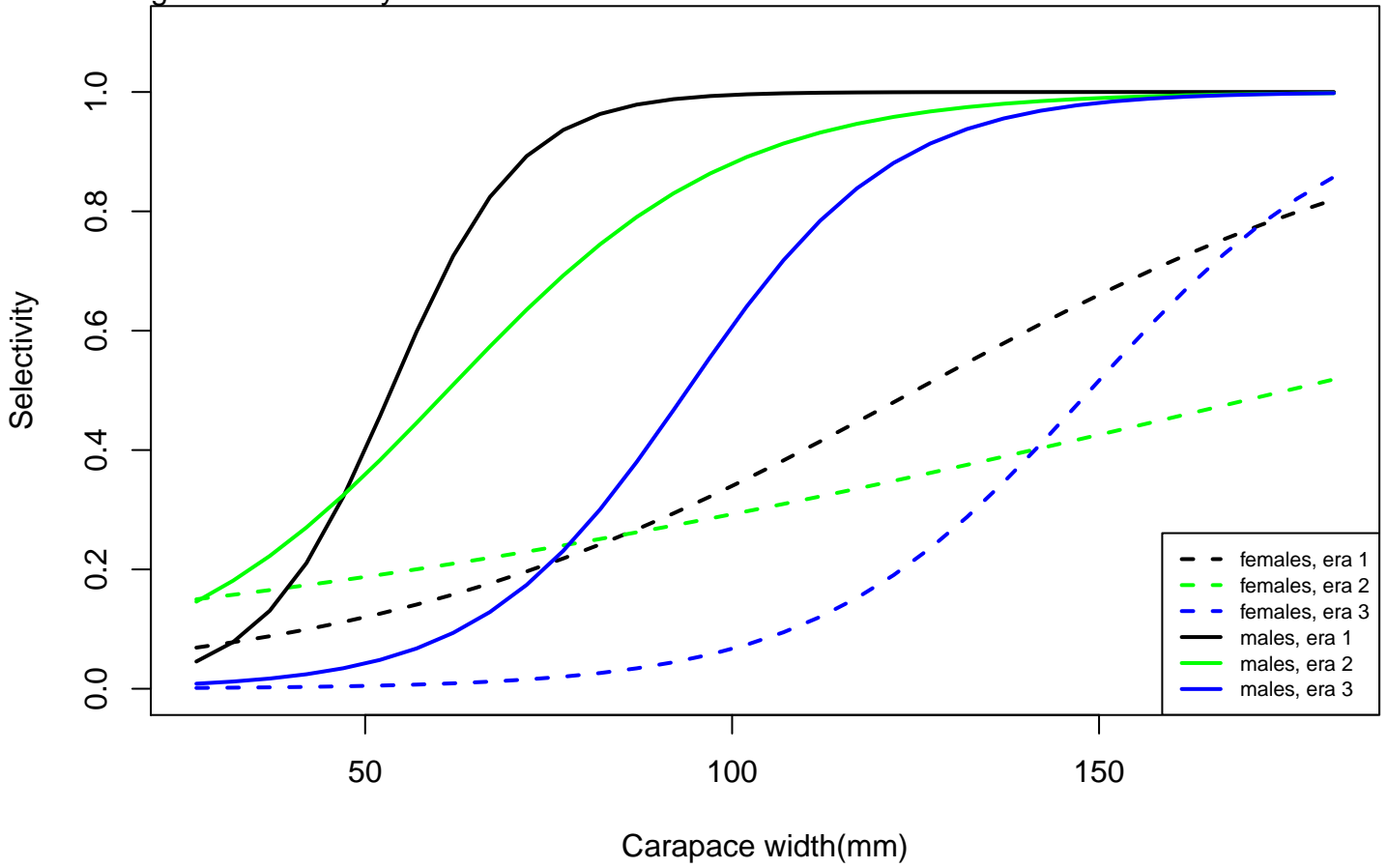
snow crab fishery



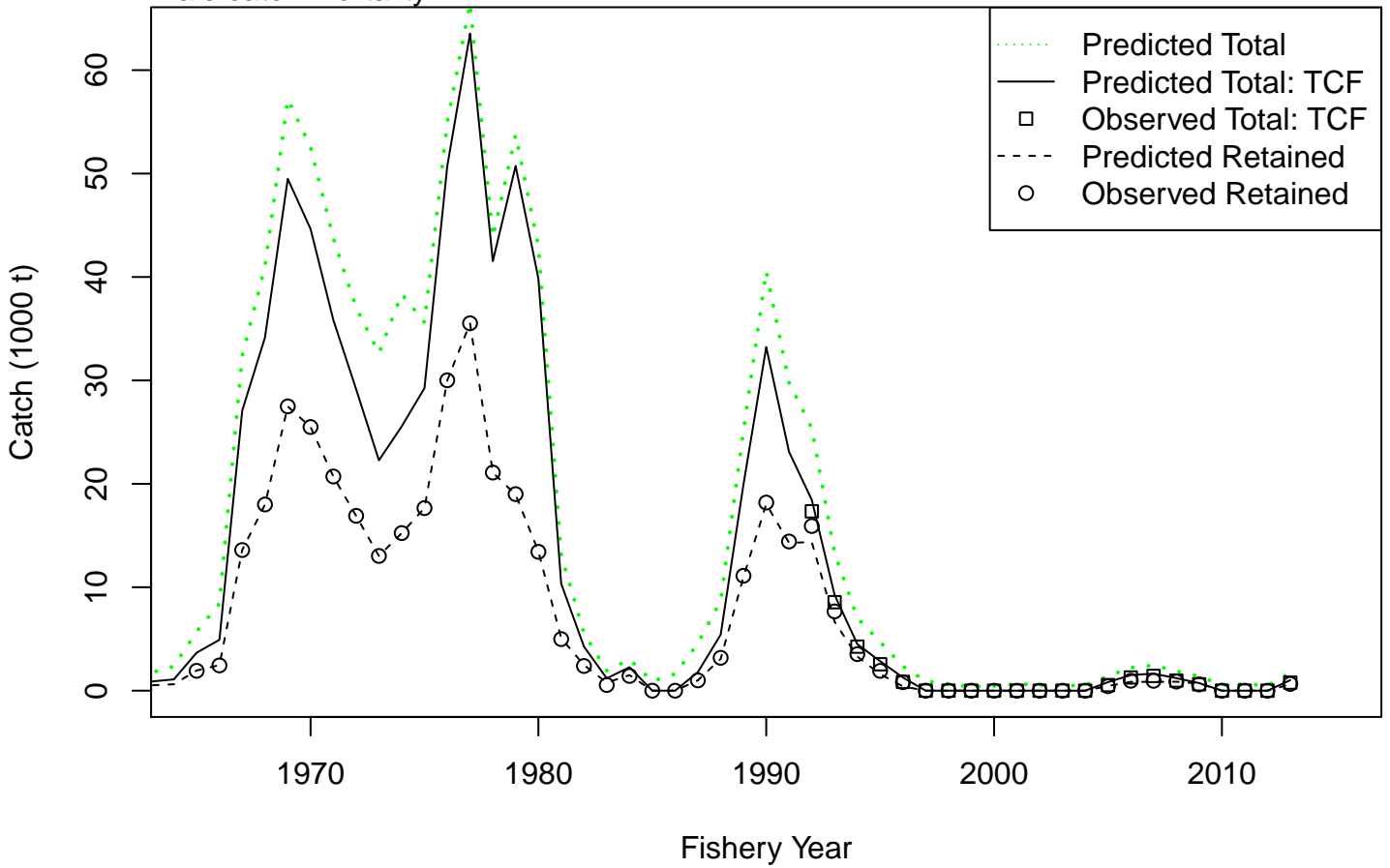
BBRKC fishery

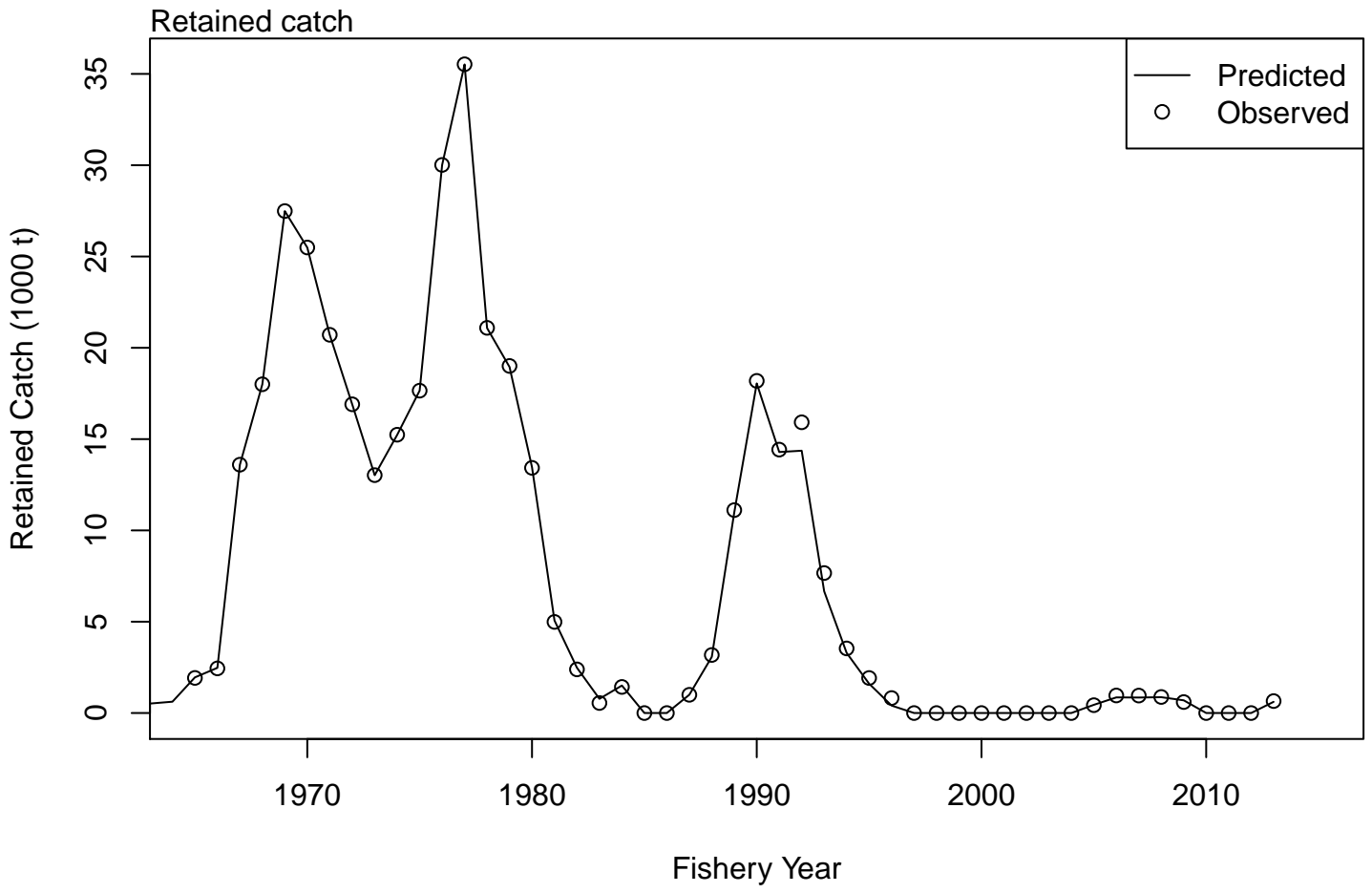


groundfish fishery

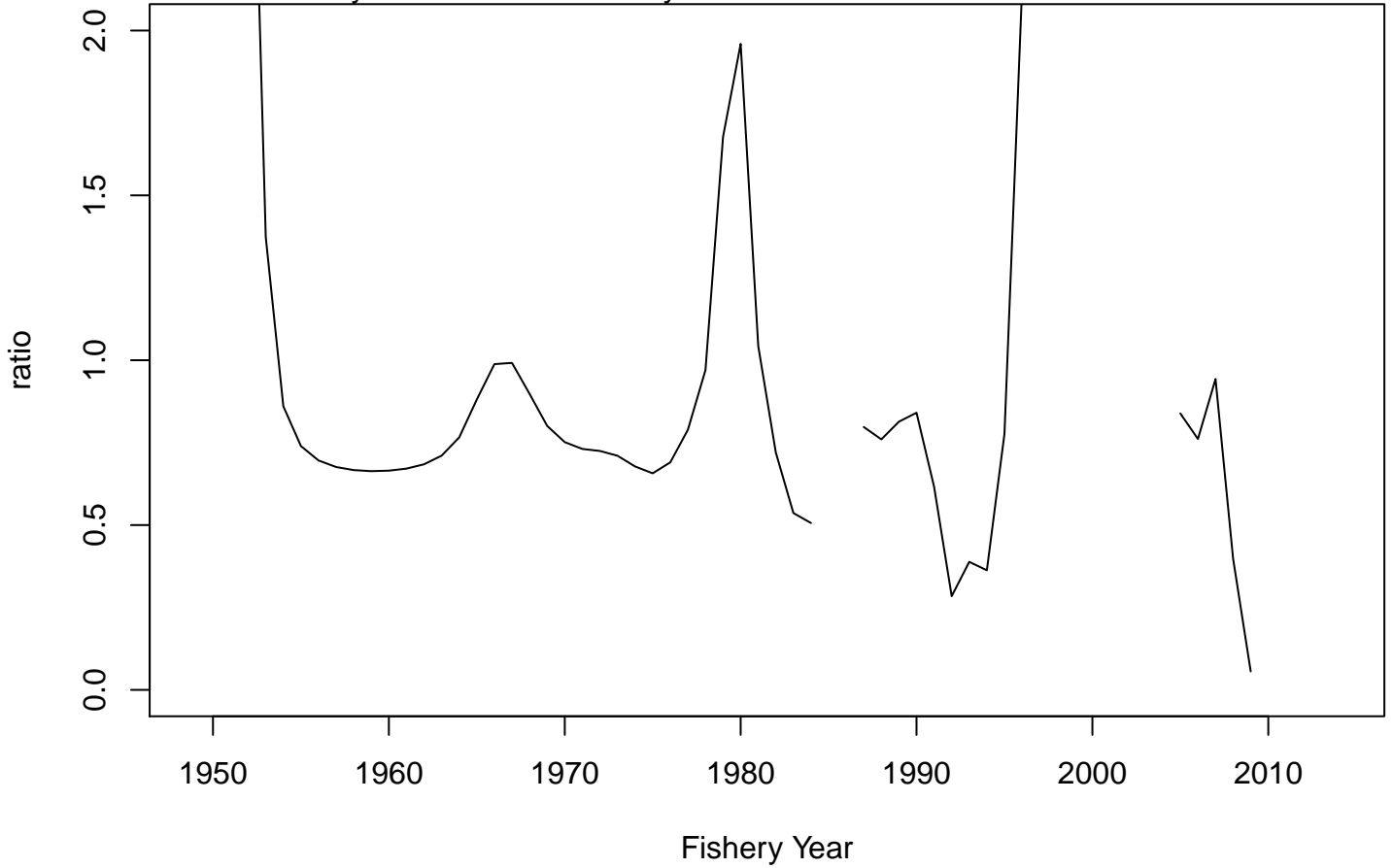


Male catch mortality

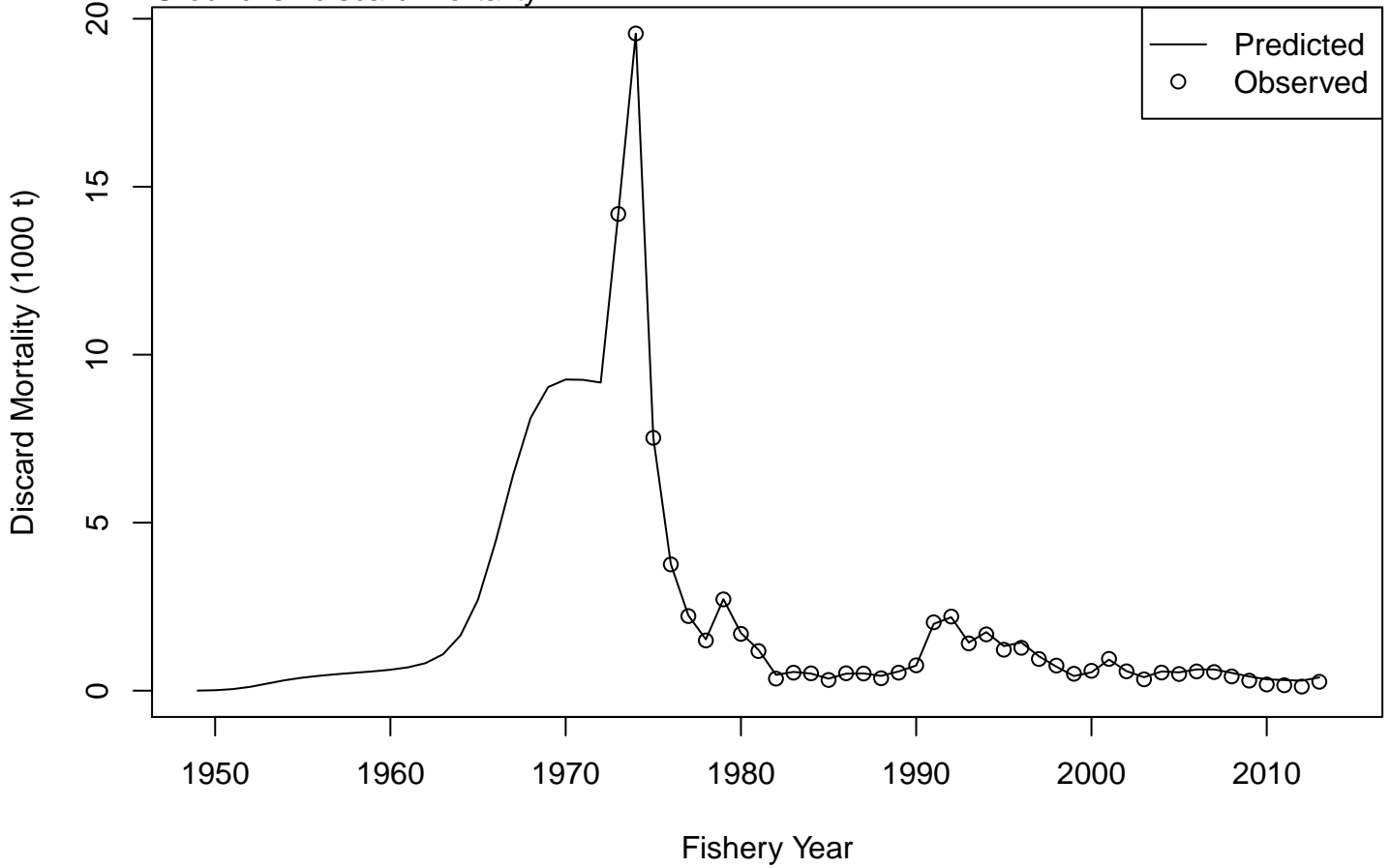




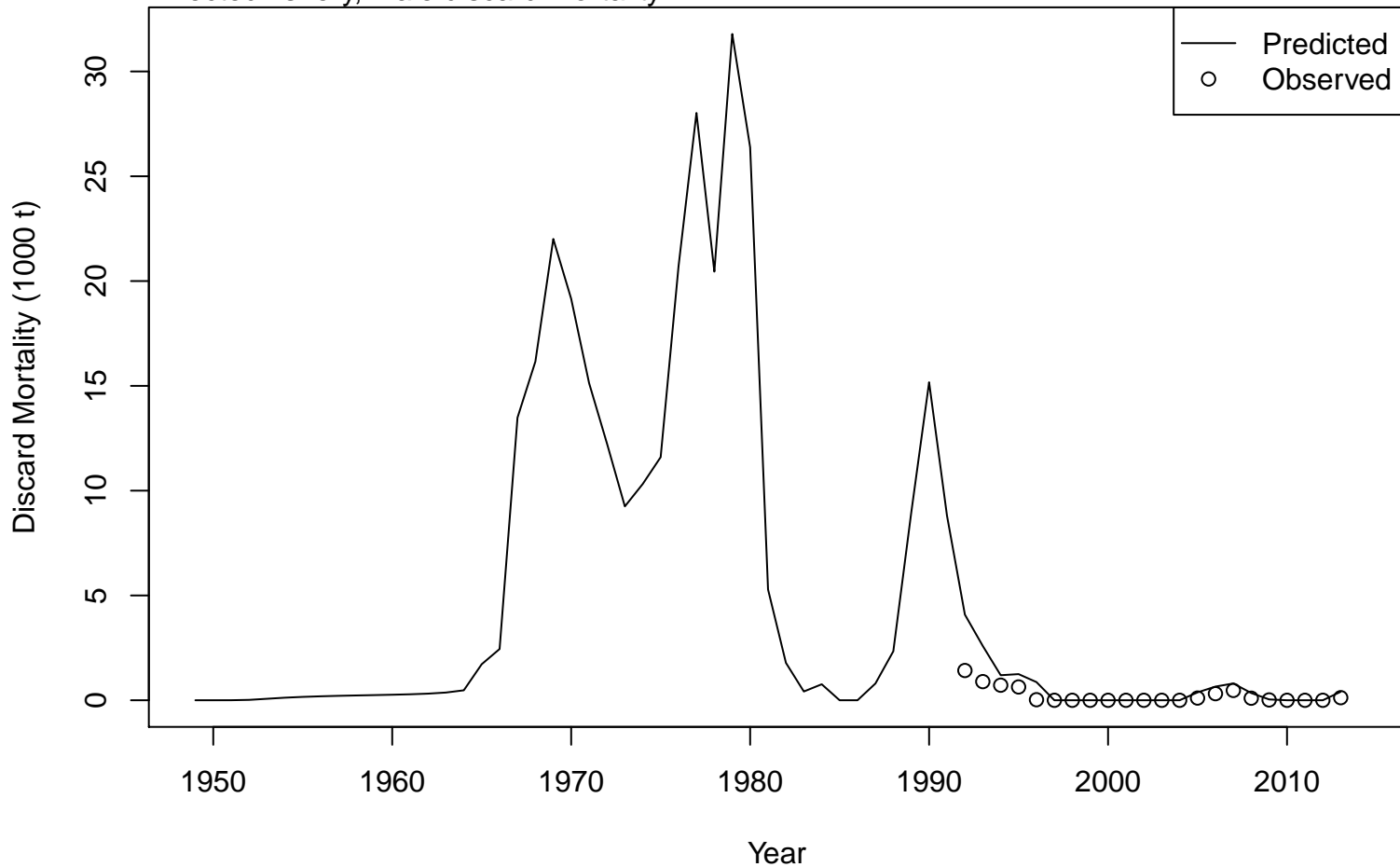
Directed fishery male discard mortality biomass relative to retained catch biomass



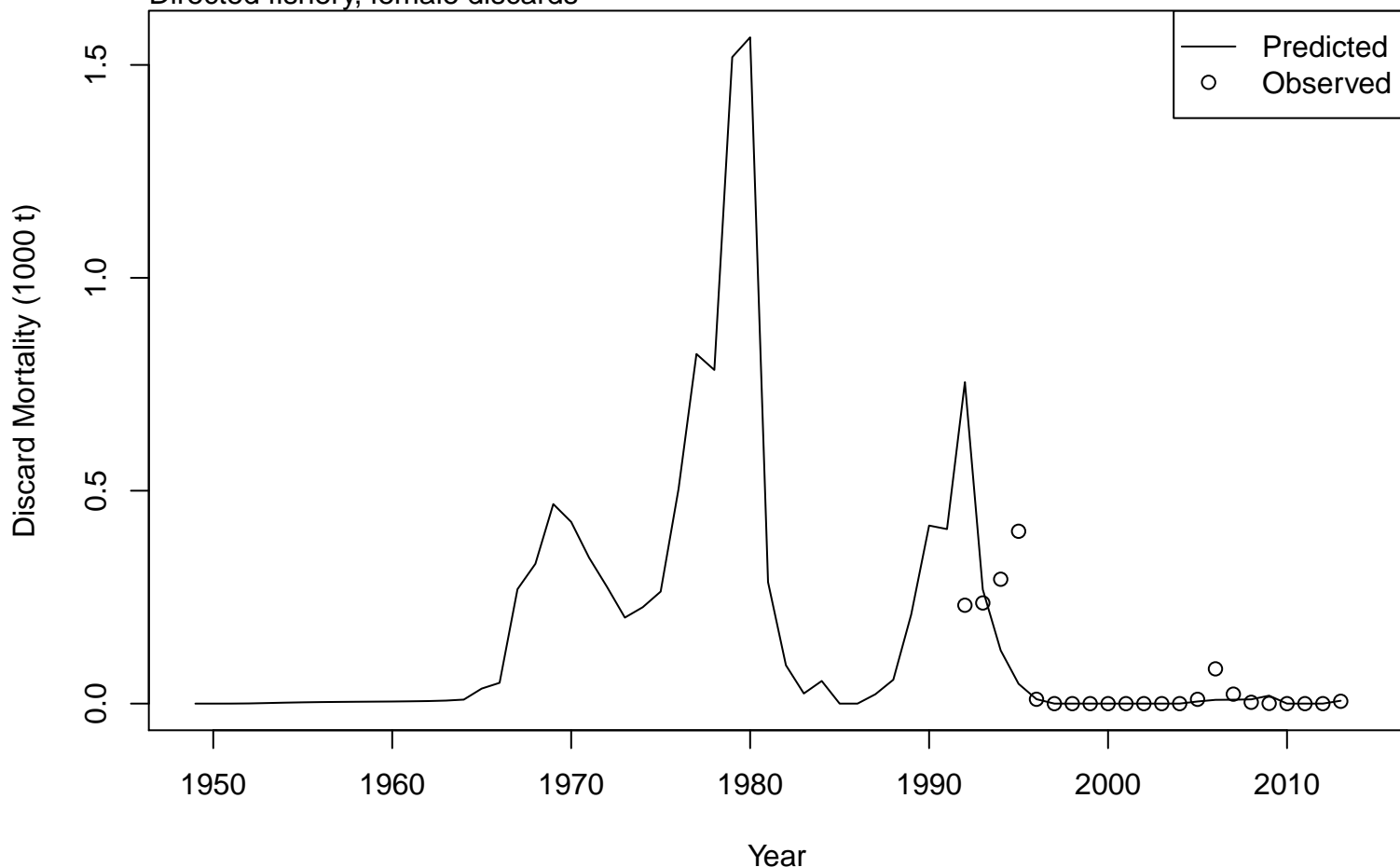
Groundfish discard mortality



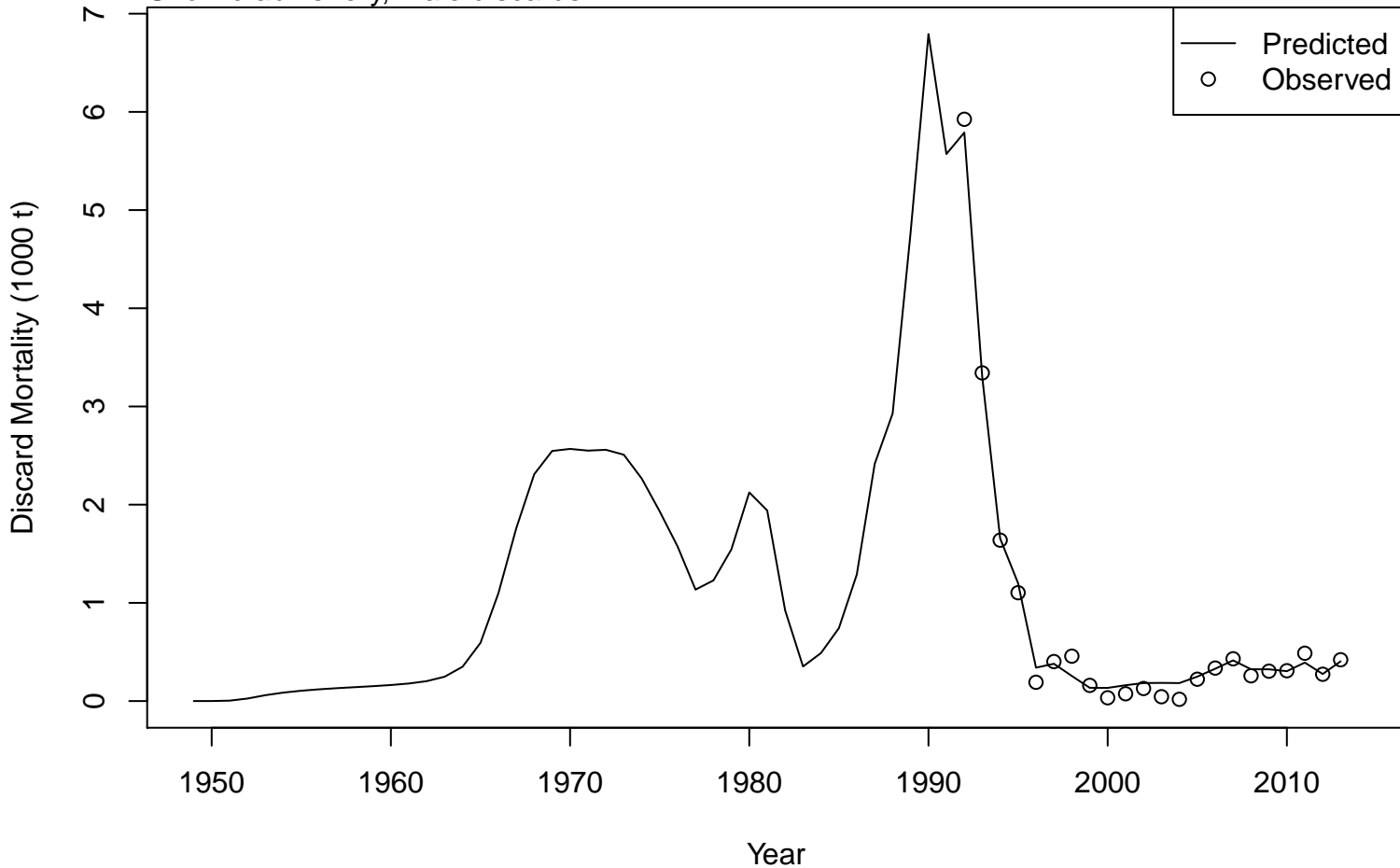
Directed fishery, male discard mortality



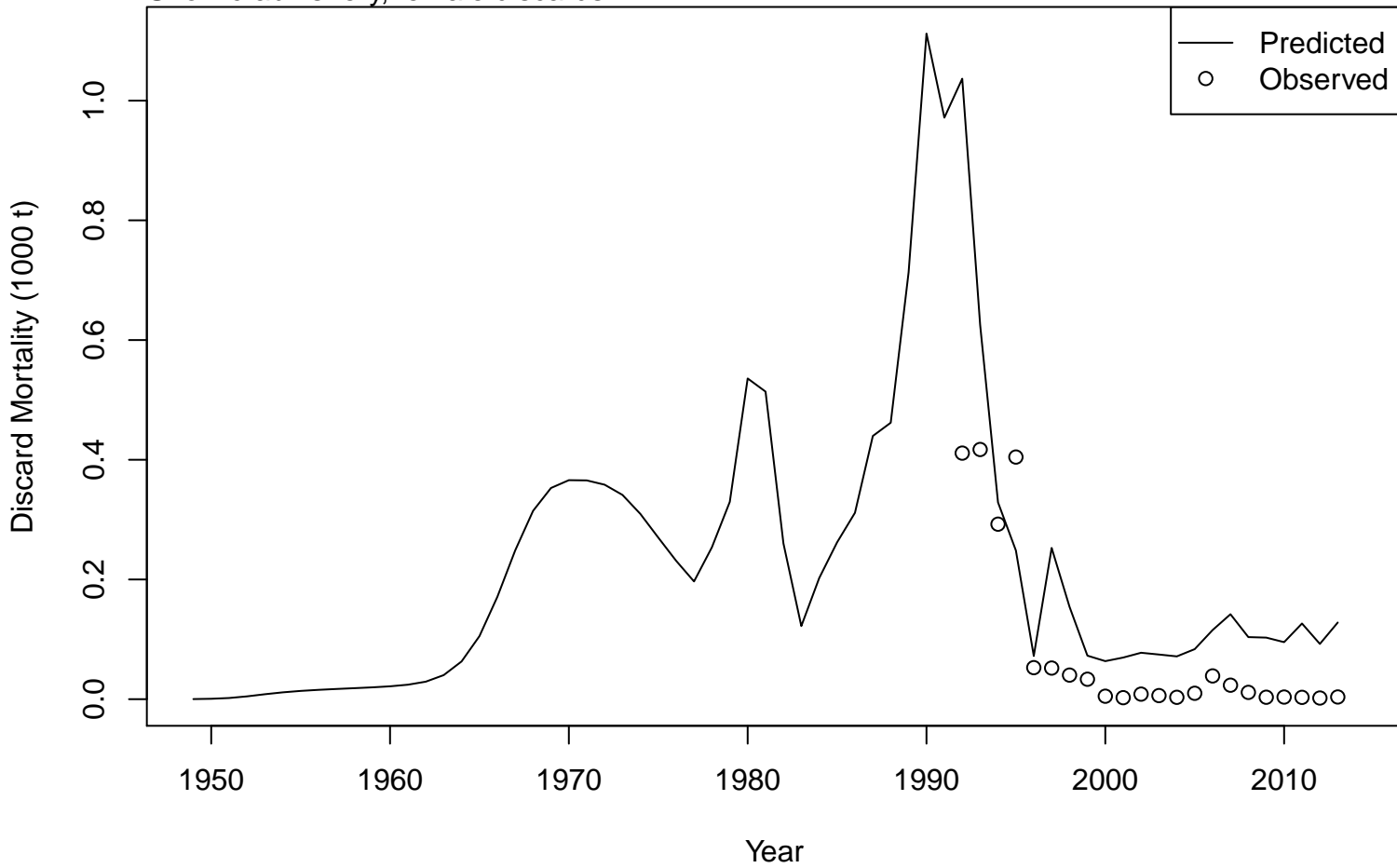
Directed fishery, female discards



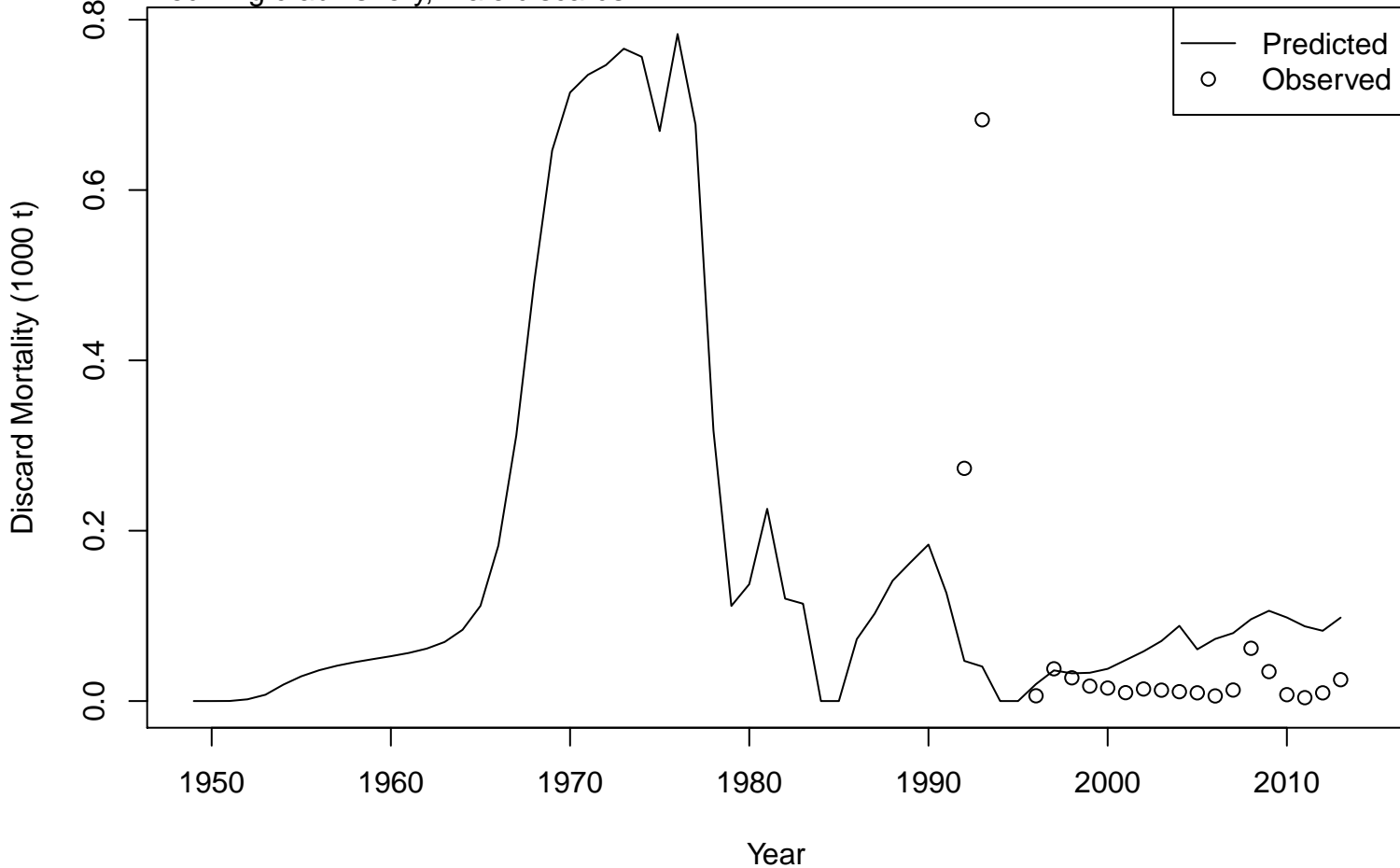
Snow crab fishery, male discards



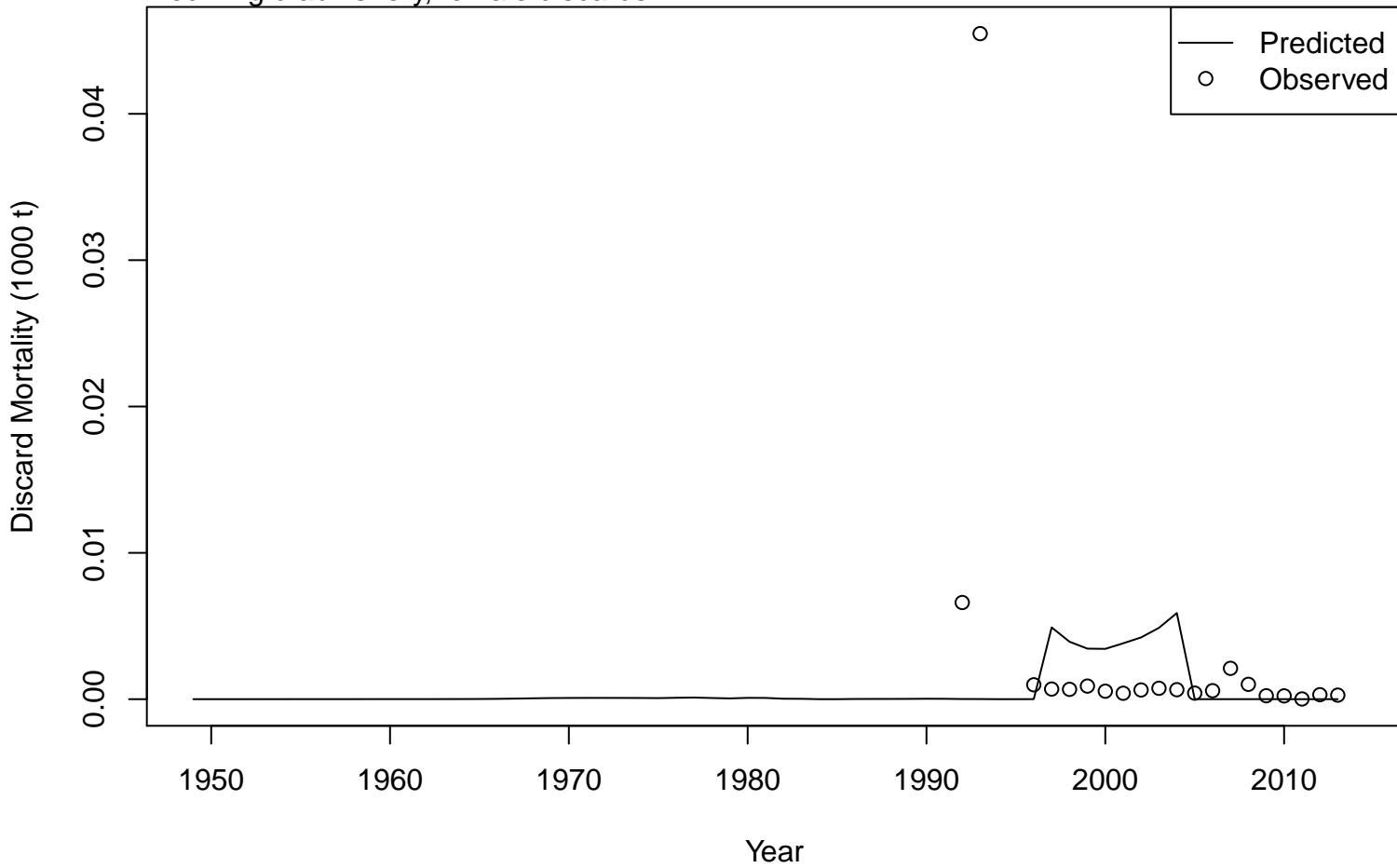
Snow crab fishery, female discards

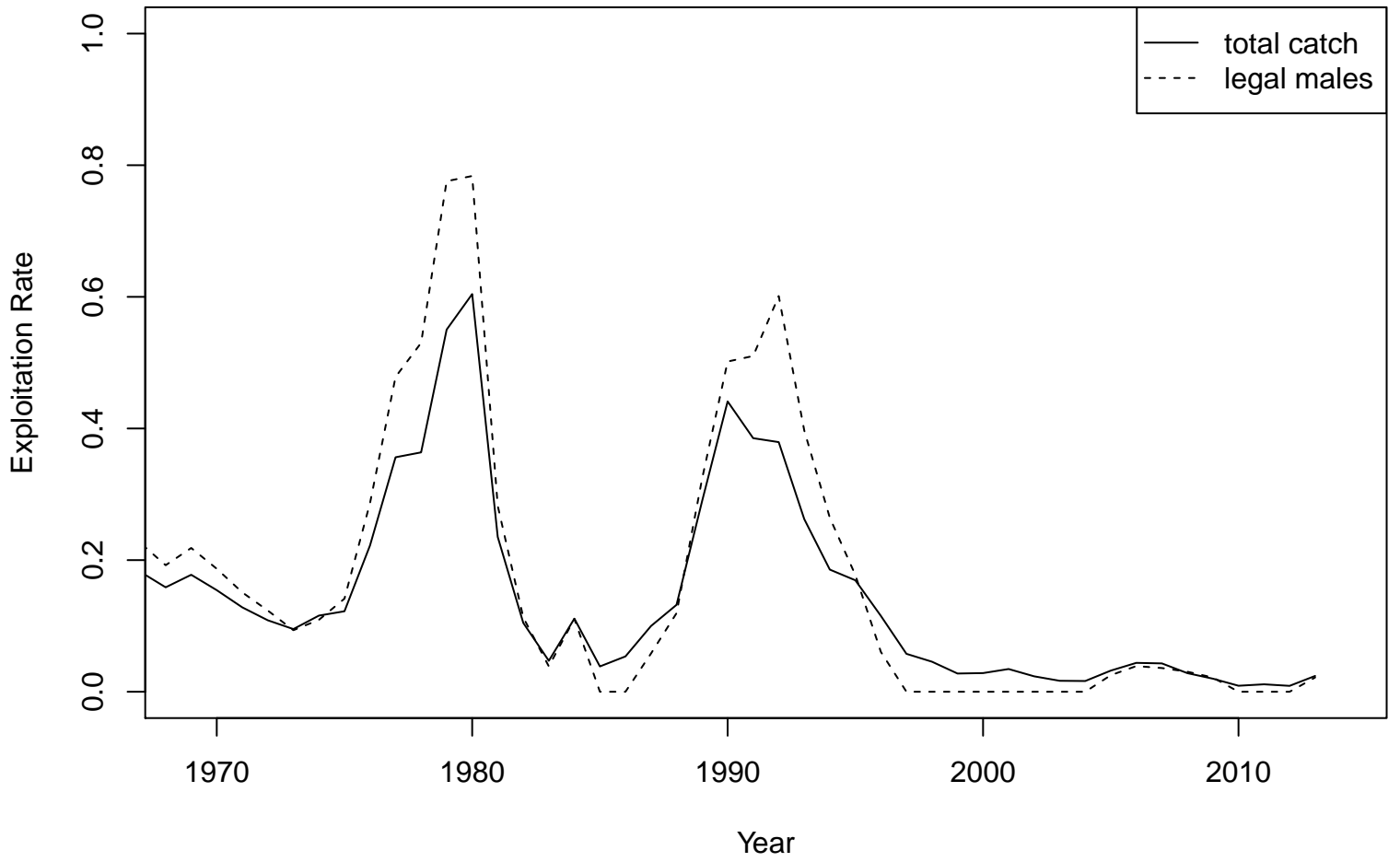


Red king crab fishery, male discards

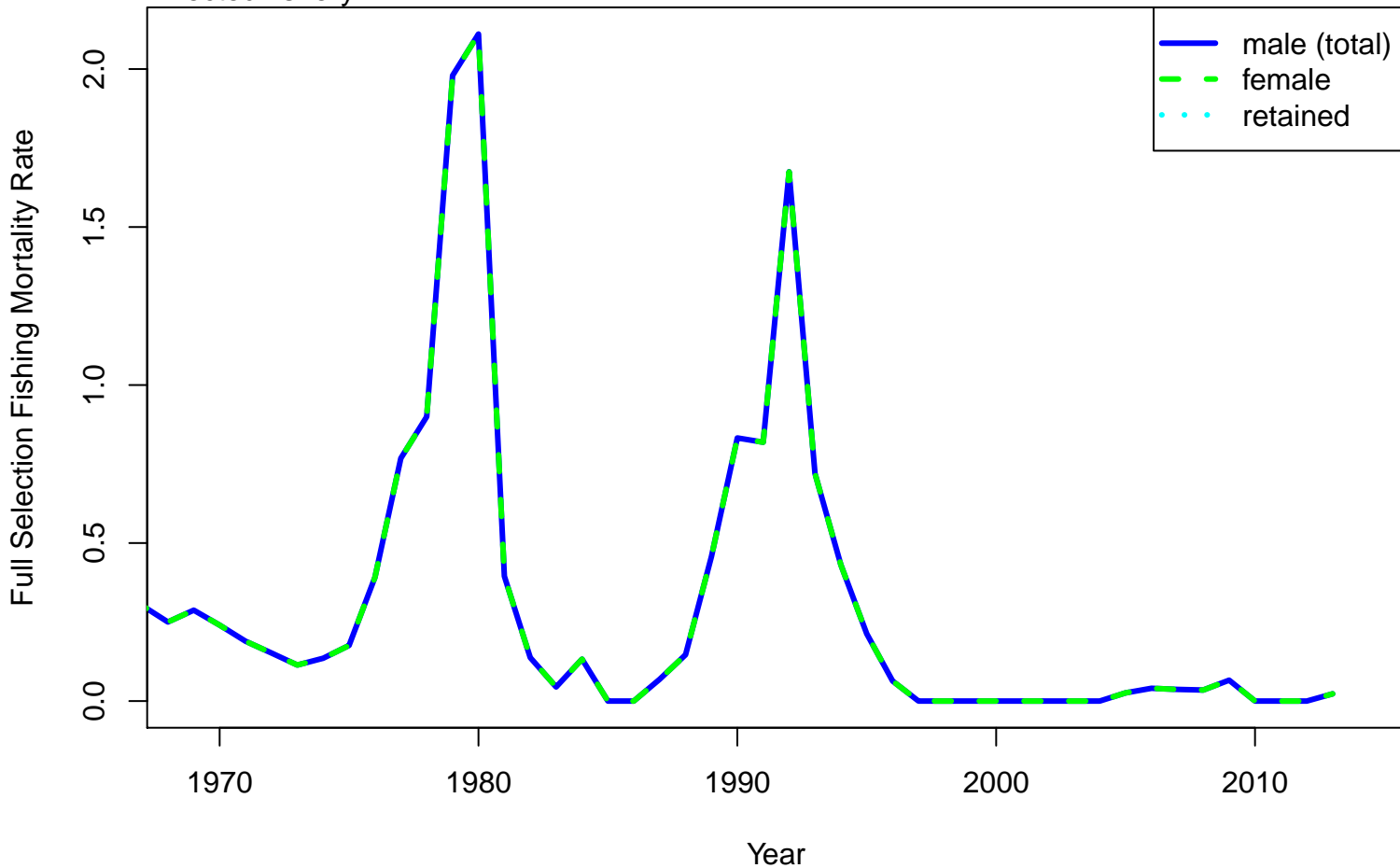


Red king crab fishery, female discards

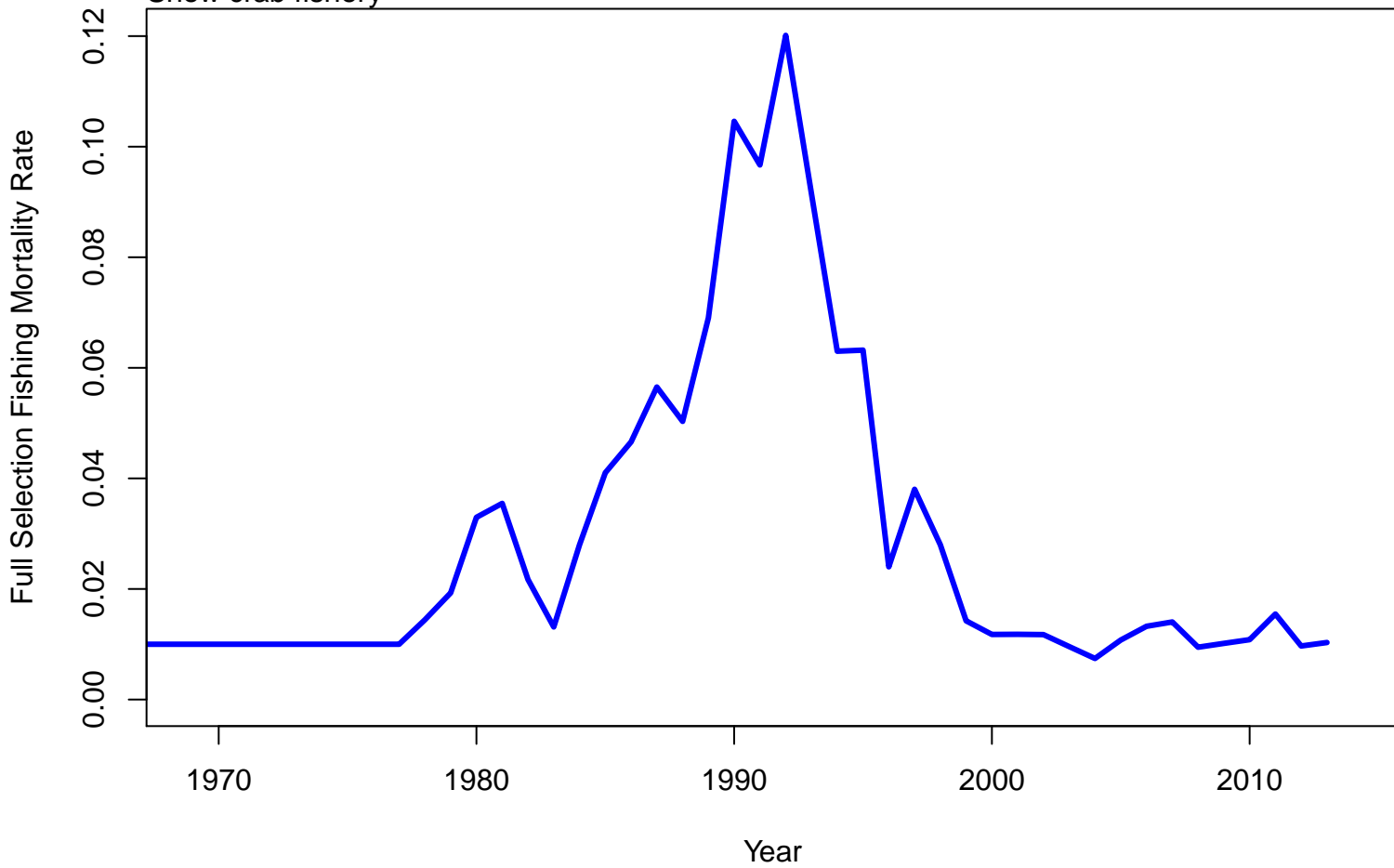




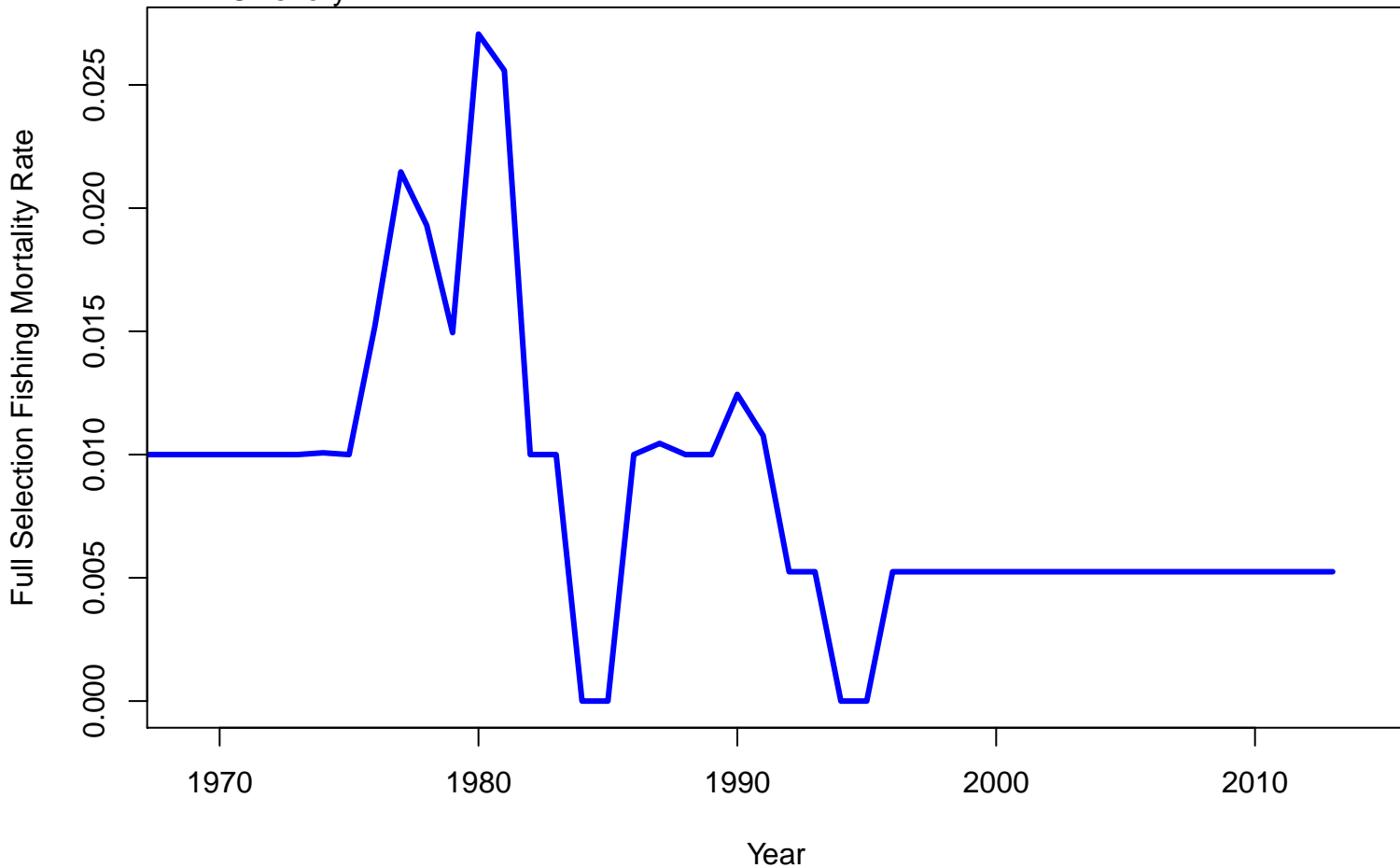
Directed fishery



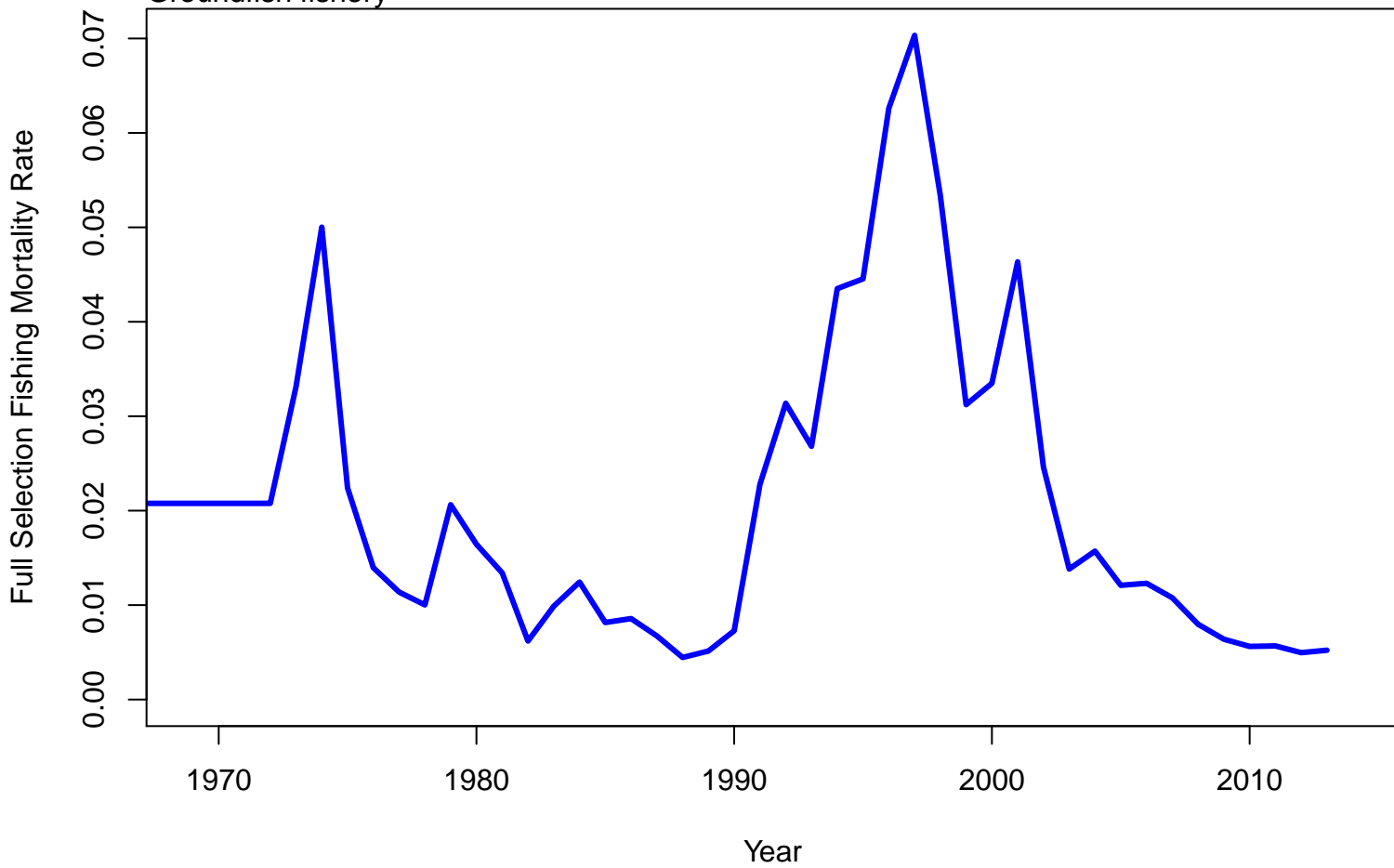
Snow crab fishery



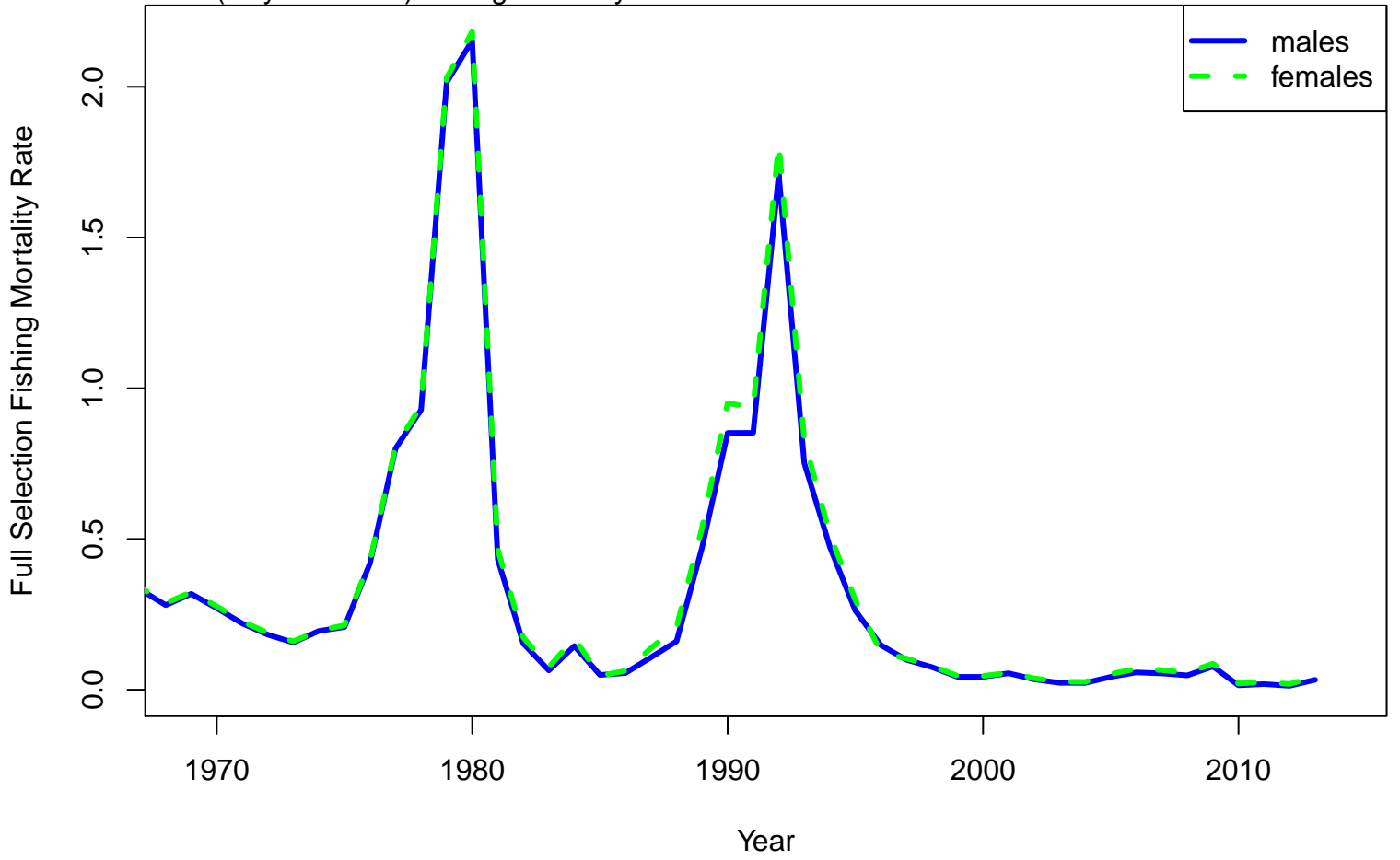
BBRKC fishery



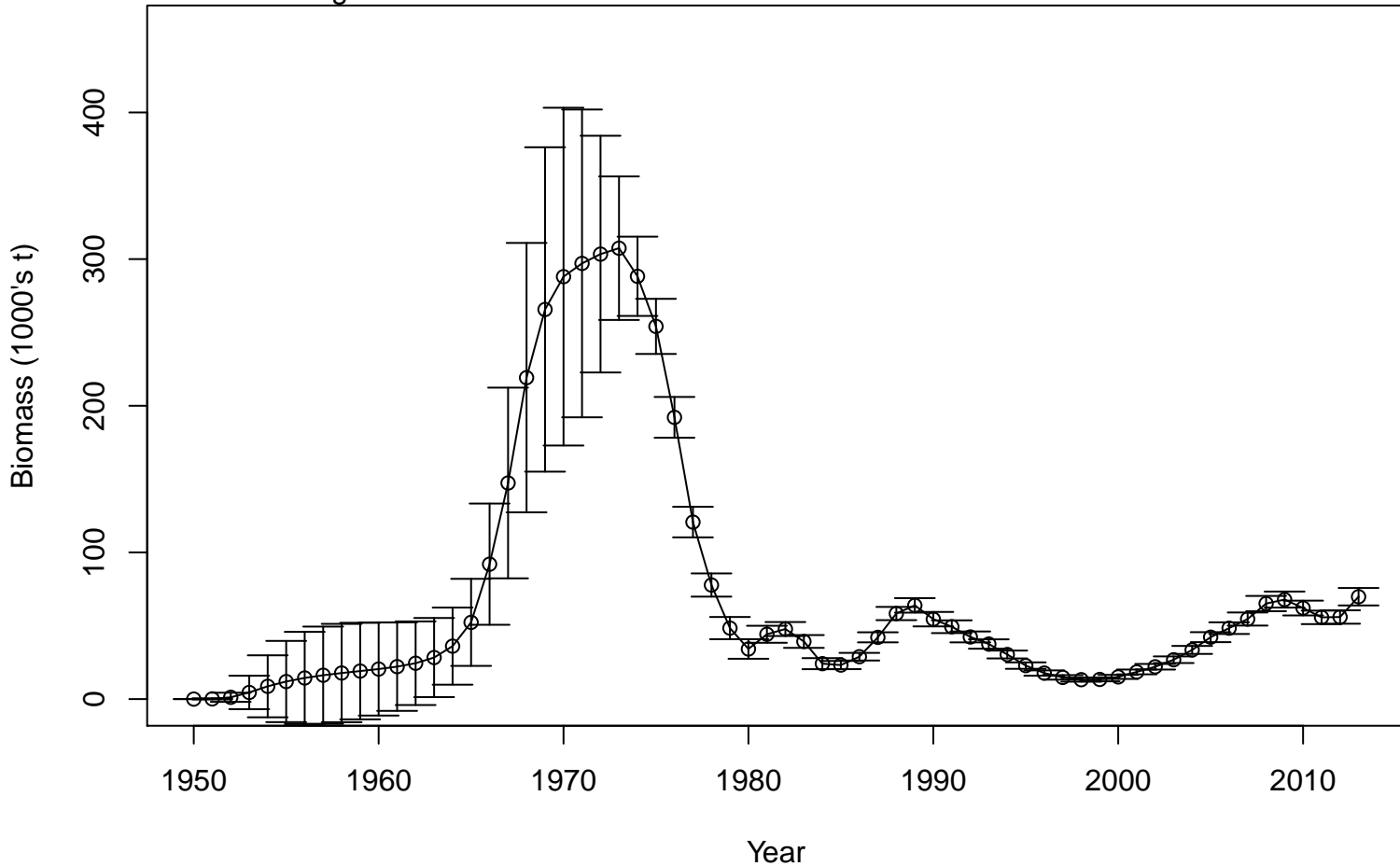
Groundfish fishery



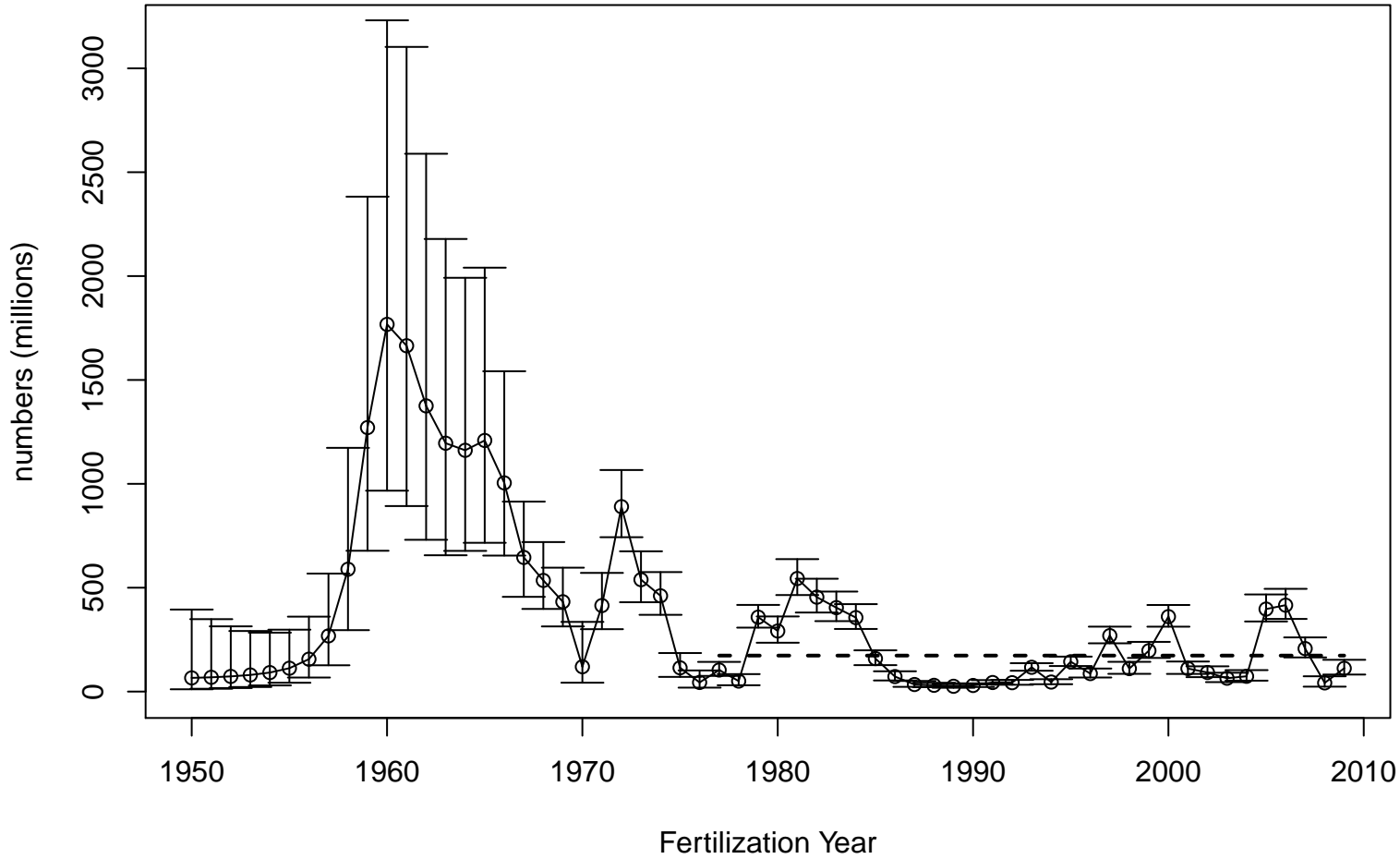
Total (fully-selected) fishing mortality



MMB at Mating

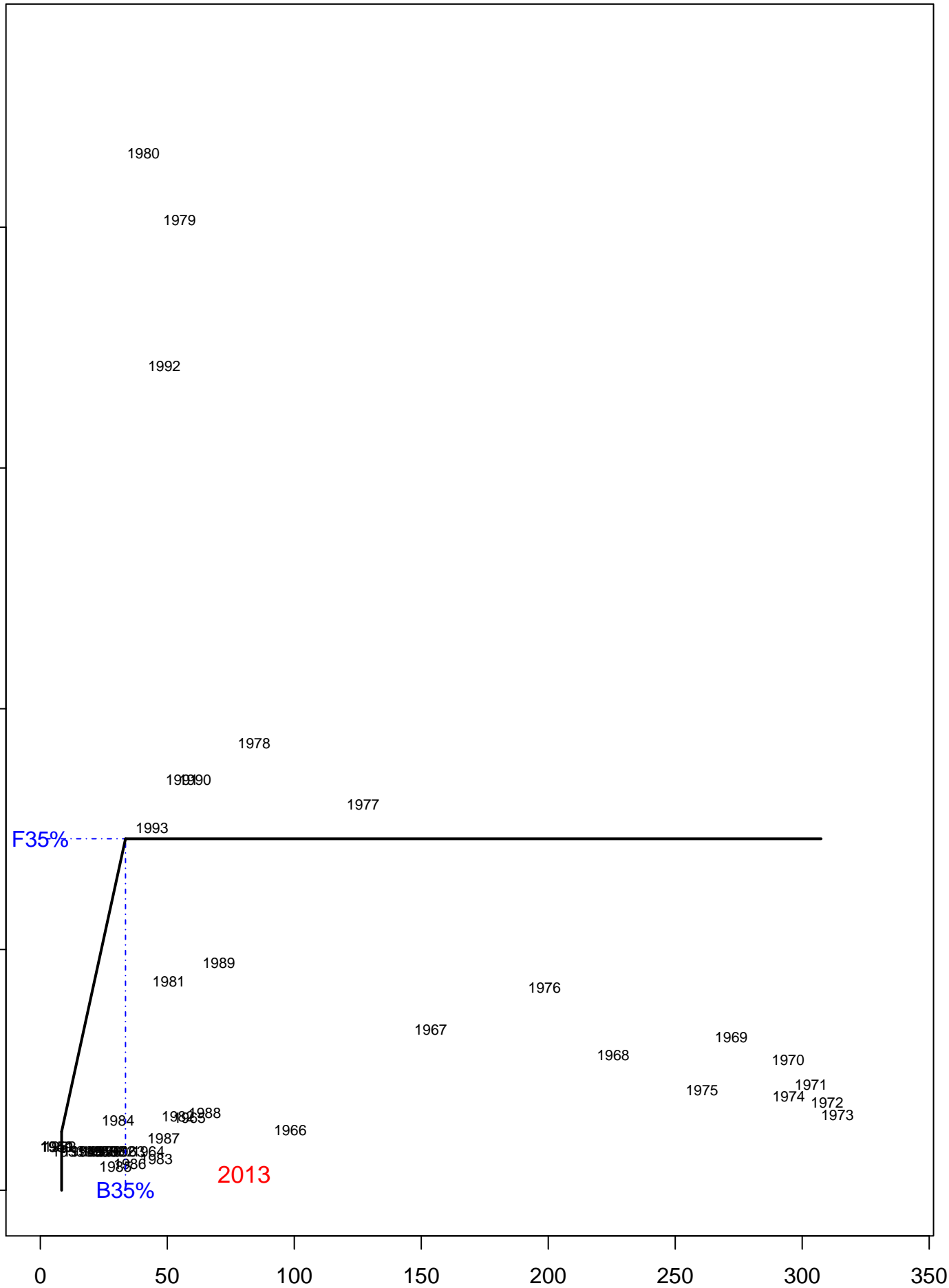


Total recruitment



Full Selection Fishing Mortality Rate

2.0
1.5
1.0
0.5
0.0



MMB (1000 t)

350

300

250

200

150

100

50

0

