

# Model Comparisons: Fits to Size Composition Data – M19F00a vs M19F01 vs M19F02 vs M19F03 vs M19F04 vs M19F05

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## **Model fits to size compositions, by year**

Fits to the size composition data available to the model(s) are presented in this section as line plots by year. Not all of the fits presented are necessarily included in the parameter optimization for each model; some fits to datasets for a particular model may be included for comparison purposes with other models which include those data in their optimization. The reader should consult the main assessment document to determine which fits are included in the optimization for any particular model.

# Survey size compositions



Figure 1: Comparison of observed and predicted male, immature, all shell survey size comps for NMFS 0. Page 1 of 5.

### NMFS 0: male, immature, all shell

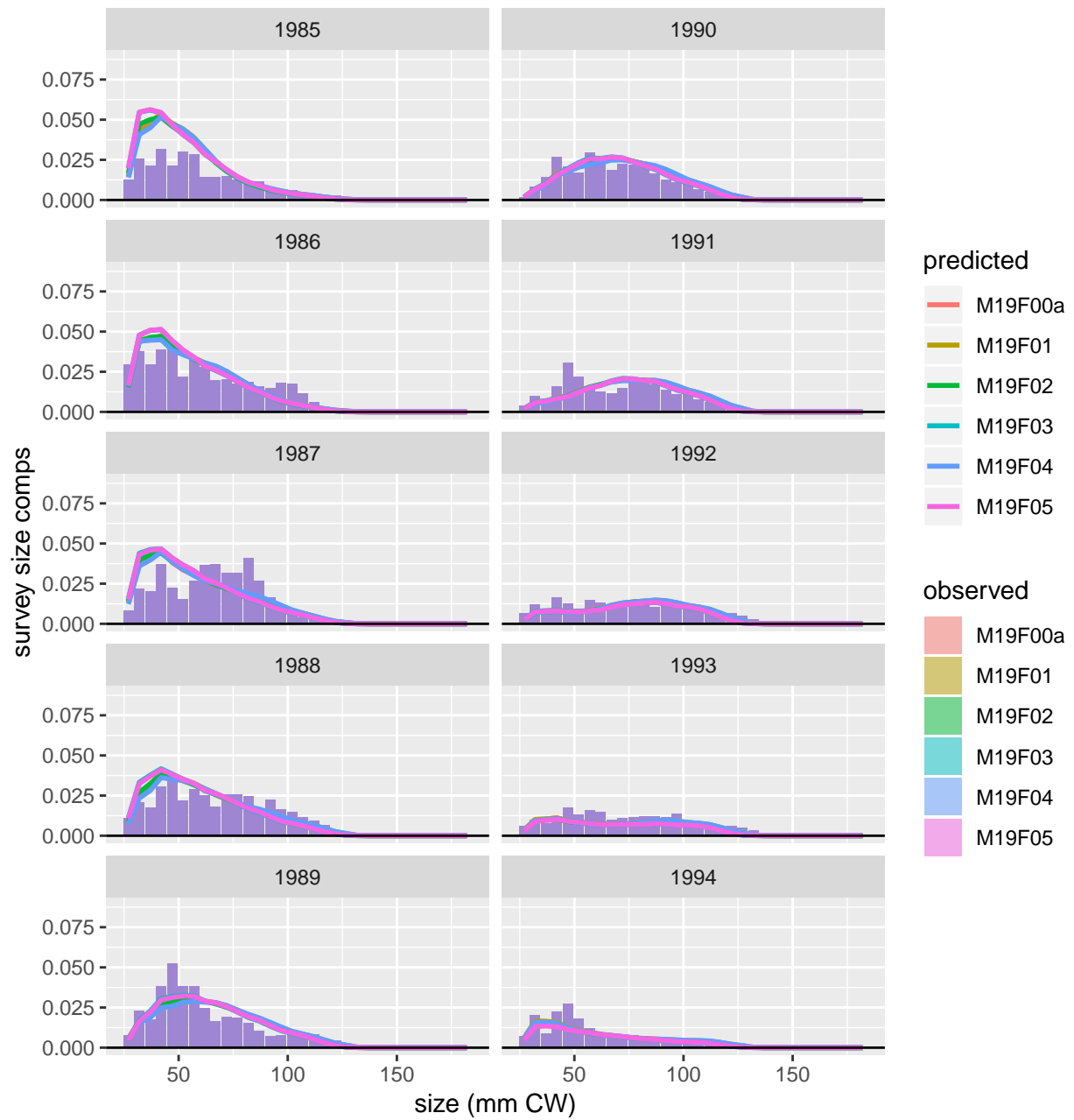


Figure 2: Comparison of observed and predicted male, immature, all shell survey size comps for NMFS 0. Page 2 of 5.

### NMFS 0: male, immature, all shell

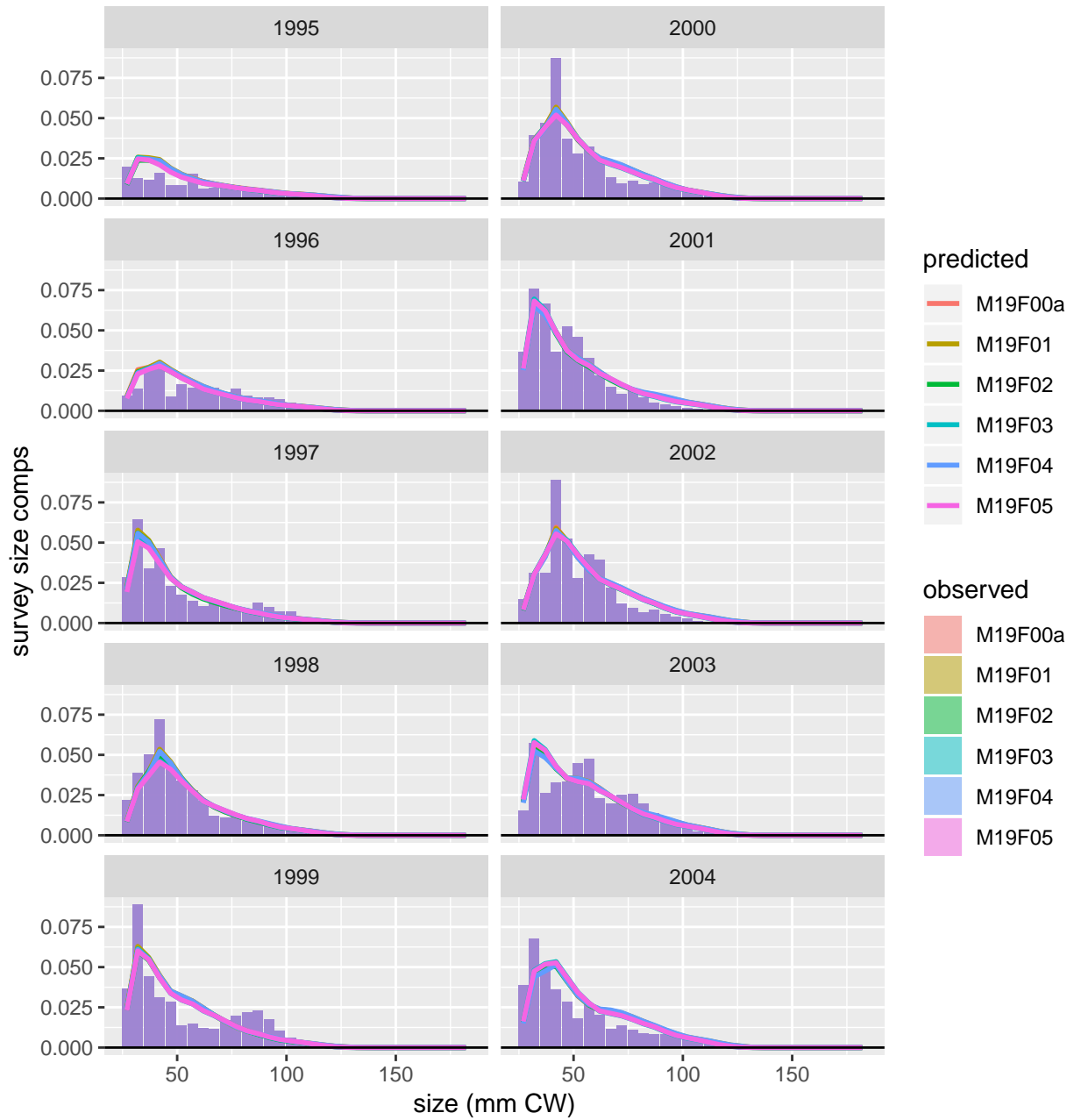


Figure 3: Comparison of observed and predicted male, immature, all shell survey size comps for NMFS 0. Page 3 of 5.

### NMFS 0: male, immature, all shell

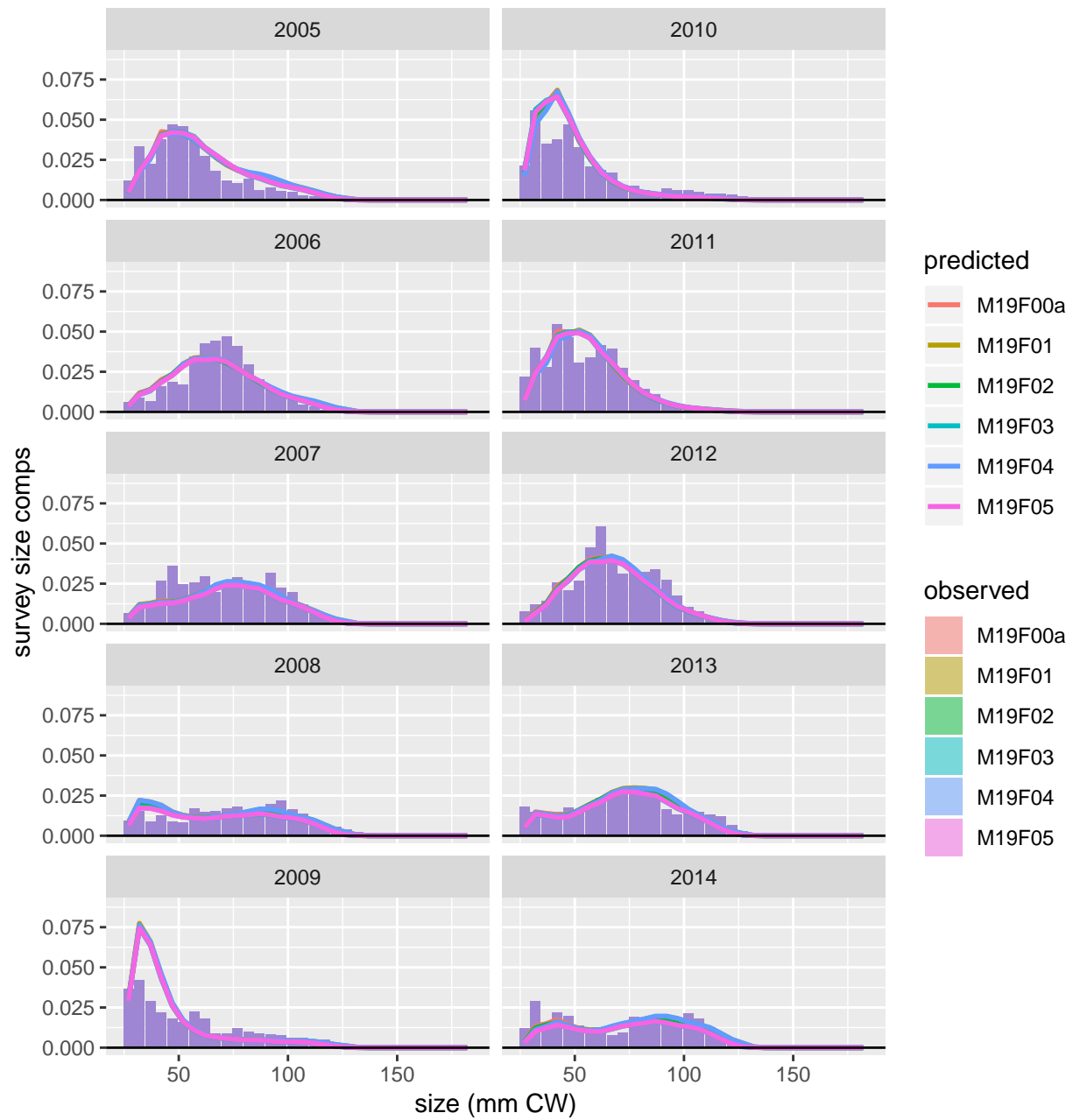


Figure 4: Comparison of observed and predicted male, immature, all shell survey size comps for NMFS 0. Page 4 of 5.

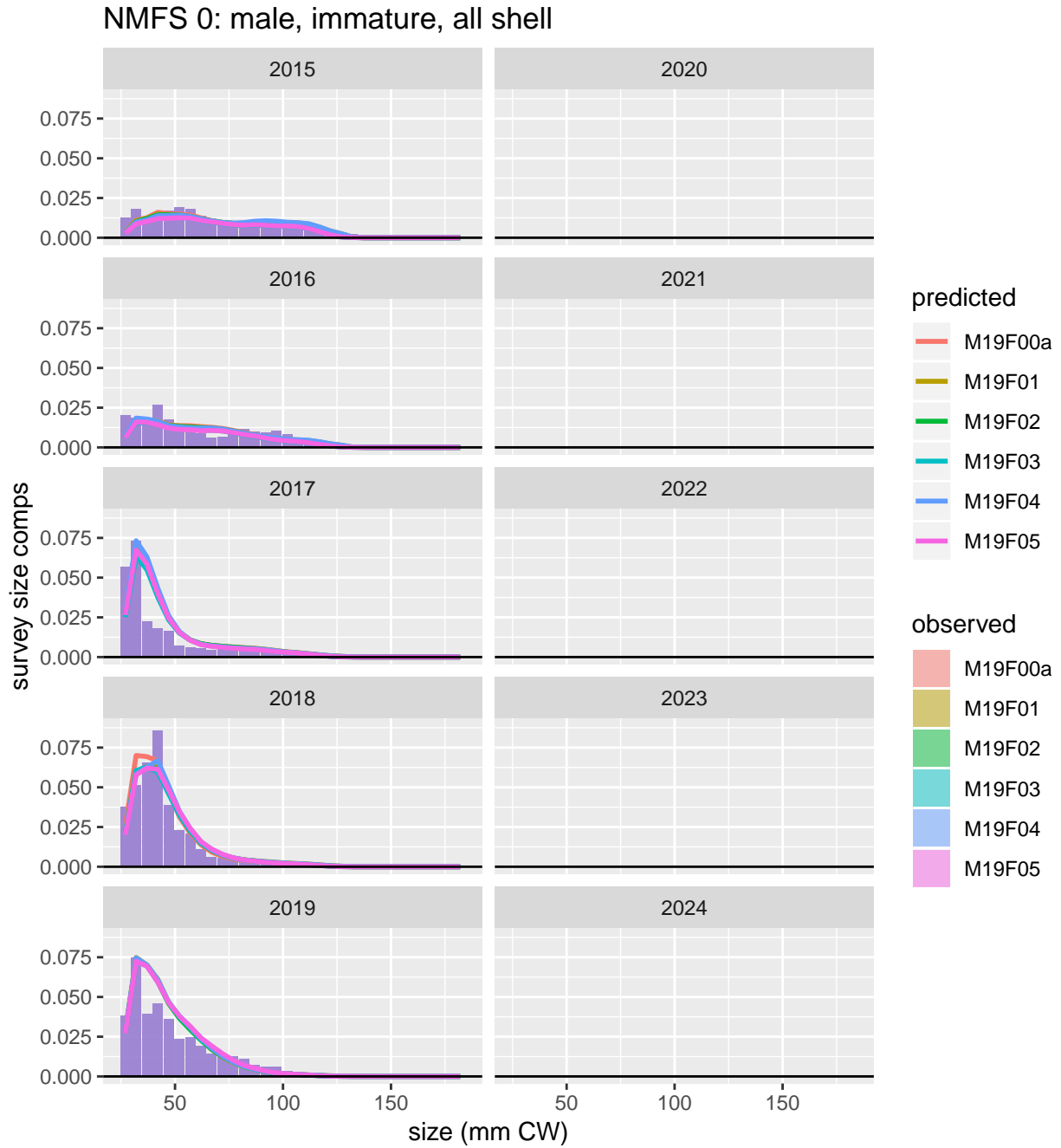


Figure 5: Comparison of observed and predicted male, immature, all shell survey size comps for NMFS 0. Page 5 of 5.

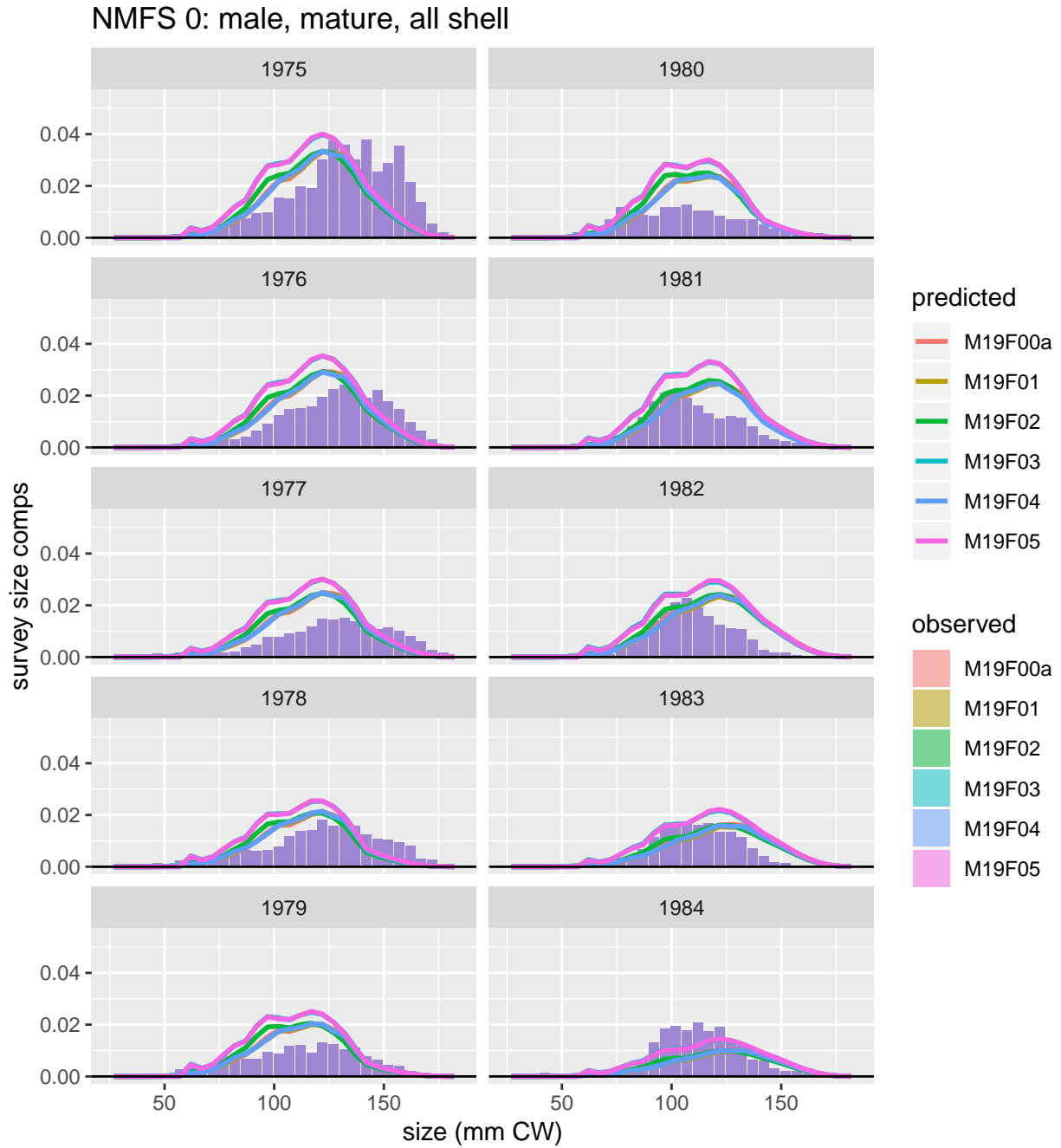


Figure 6: Comparison of observed and predicted male, mature, all shell survey size comps for NMFS 0. Page 1 of 5.

NMFS 0: male, mature, all shell

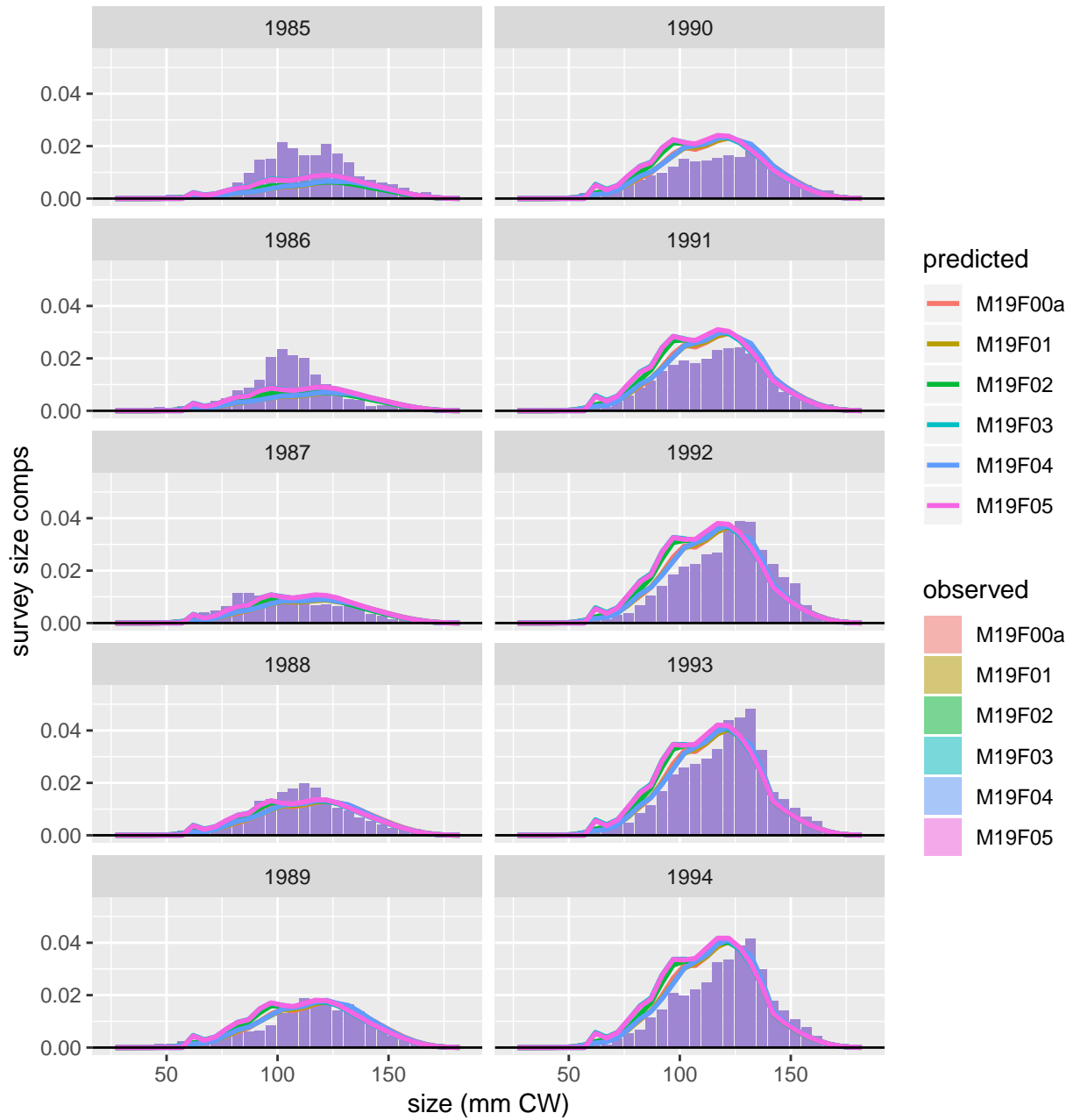


Figure 7: Comparison of observed and predicted male, mature, all shell survey size comps for NMFS 0. Page 2 of 5.



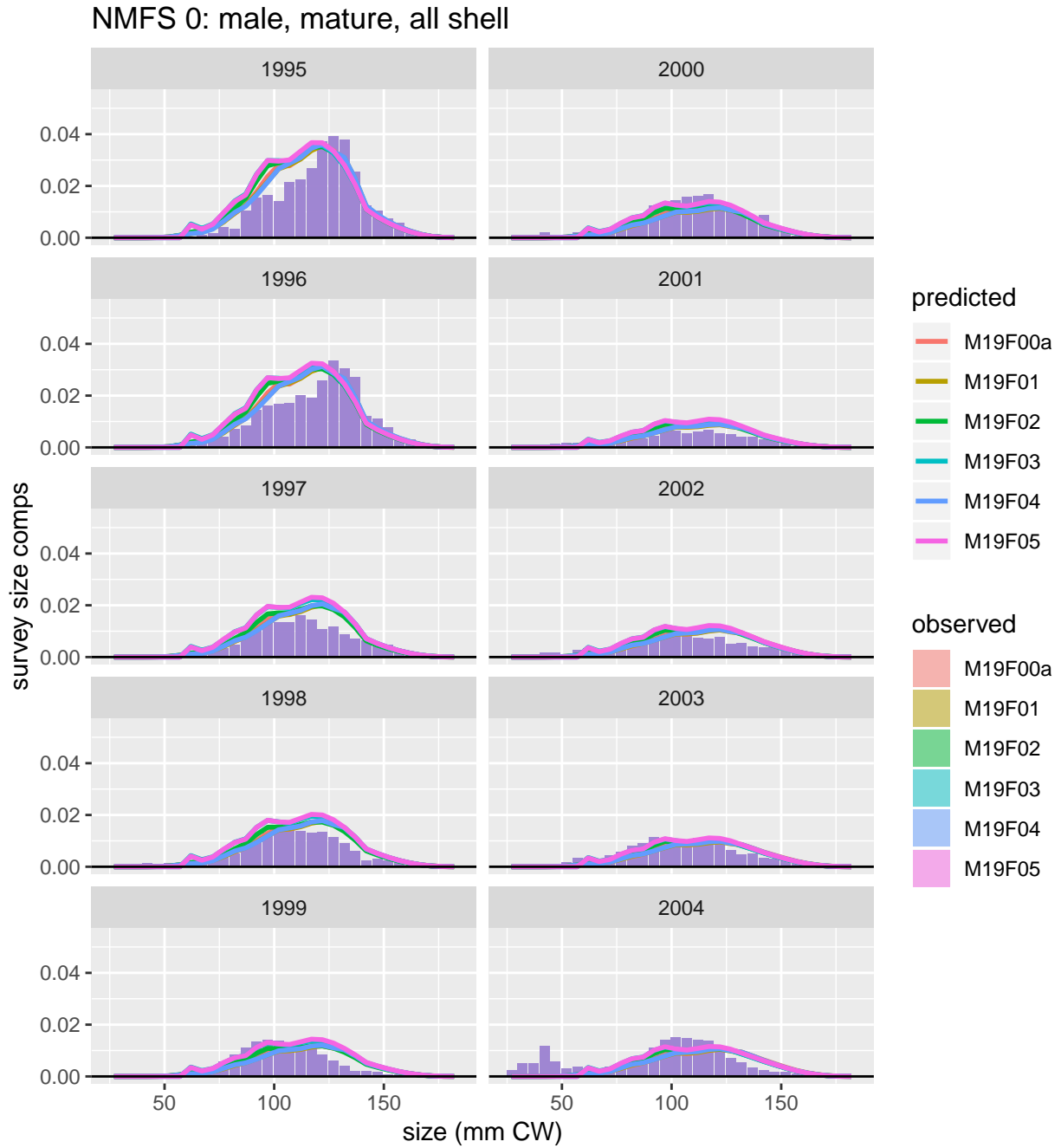


Figure 8: Comparison of observed and predicted male, mature, all shell survey size comps for NMFS 0. Page 3 of 5.

NMFS 0: male, mature, all shell

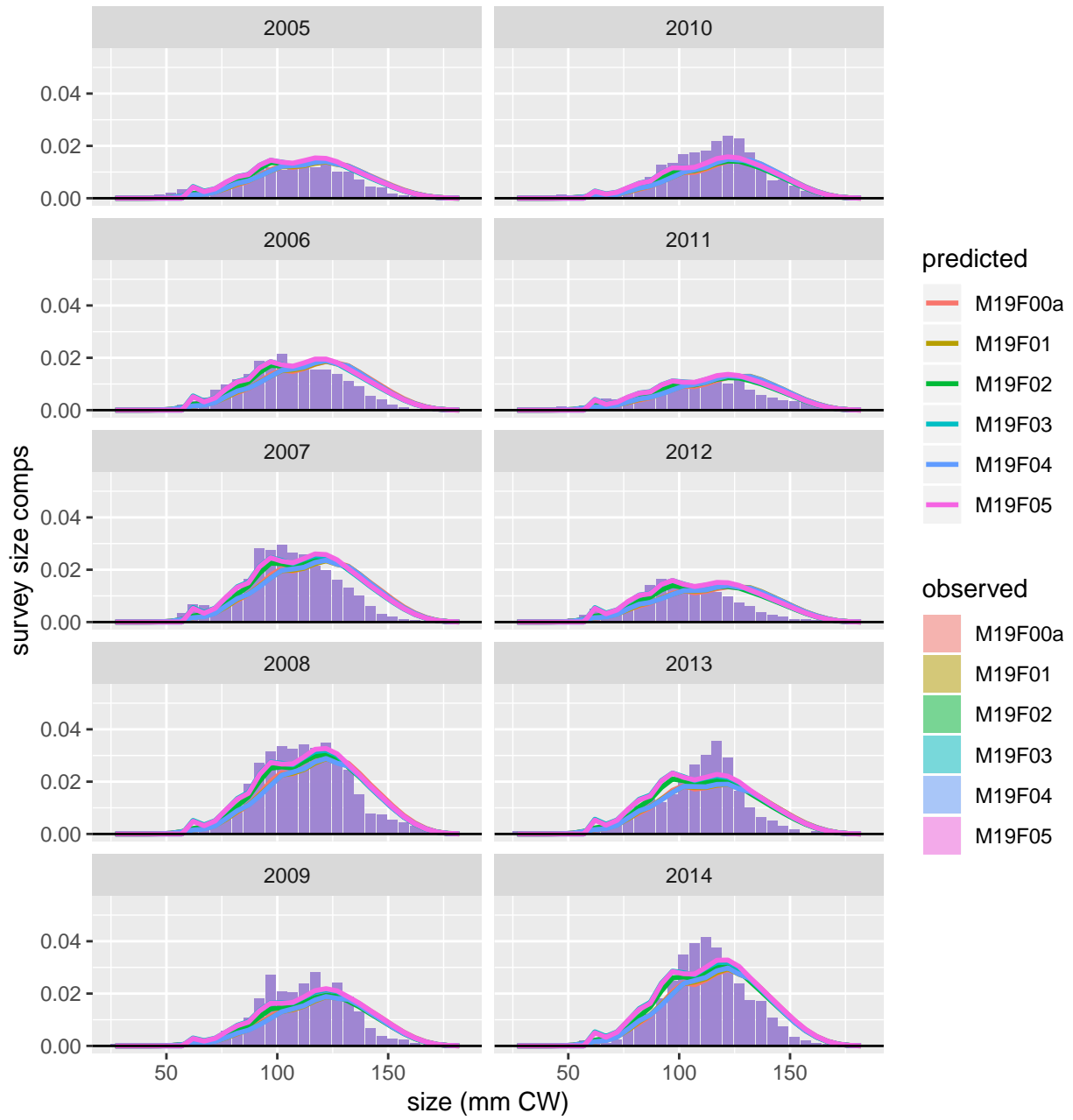


Figure 9: Comparison of observed and predicted male, mature, all shell survey size comps for NMFS 0. Page 4 of 5.

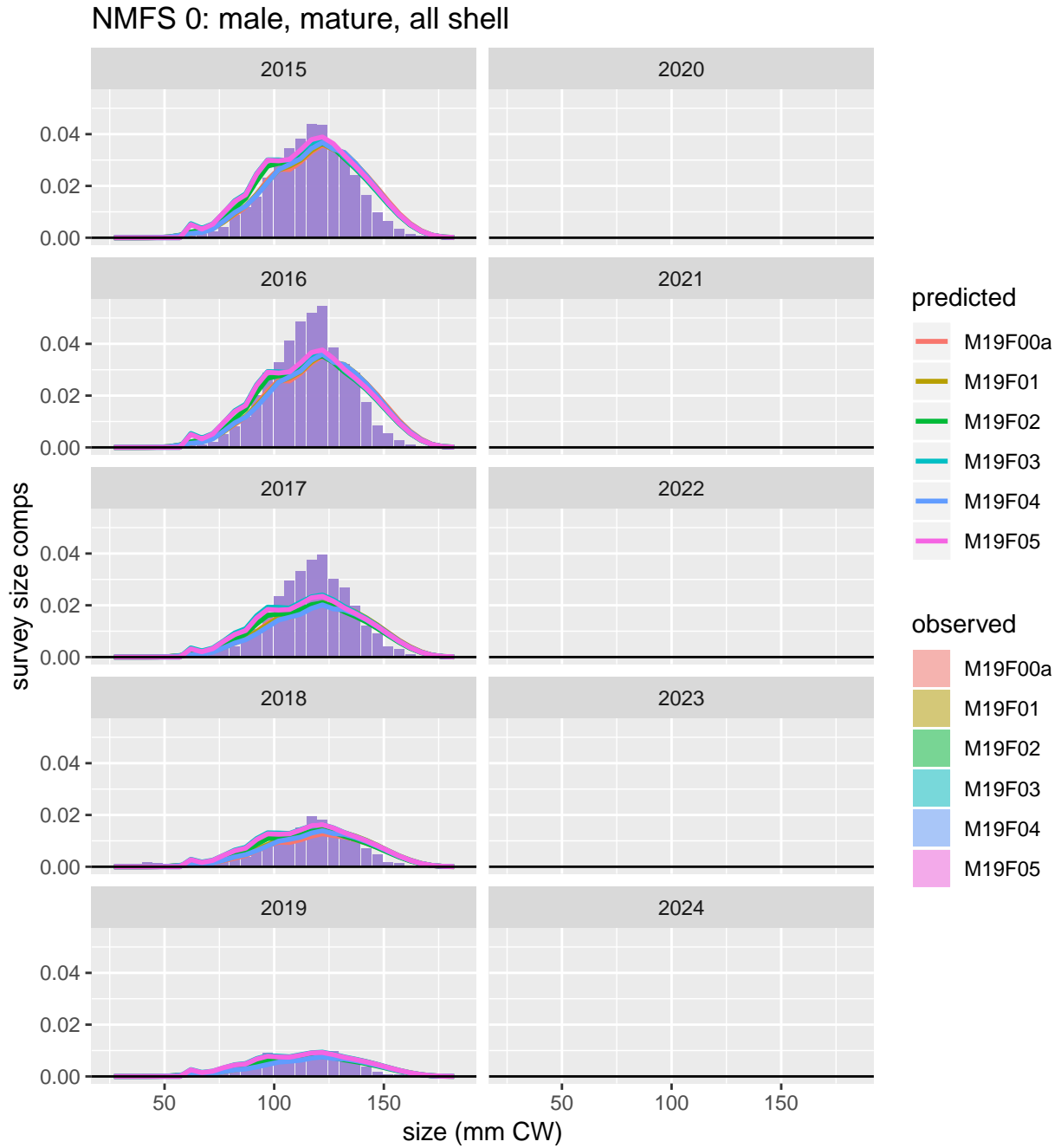


Figure 10: Comparison of observed and predicted male, mature, all shell survey size comps for NMFS 0. Page 5 of 5.

NMFS 0: female, immature, all shell

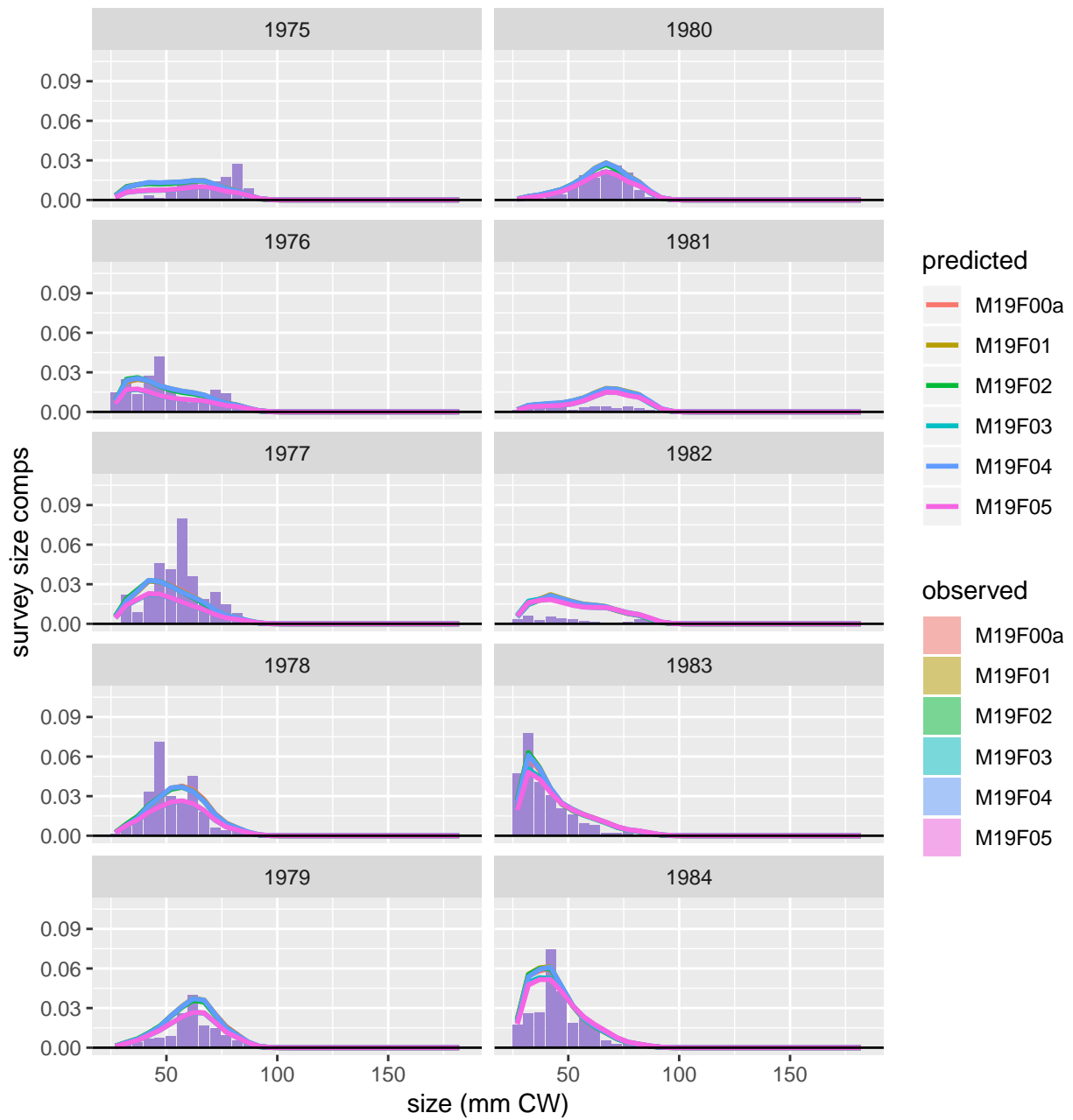


Figure 11: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS 0. Page 1 of 5.

NMFS 0: female, immature, all shell

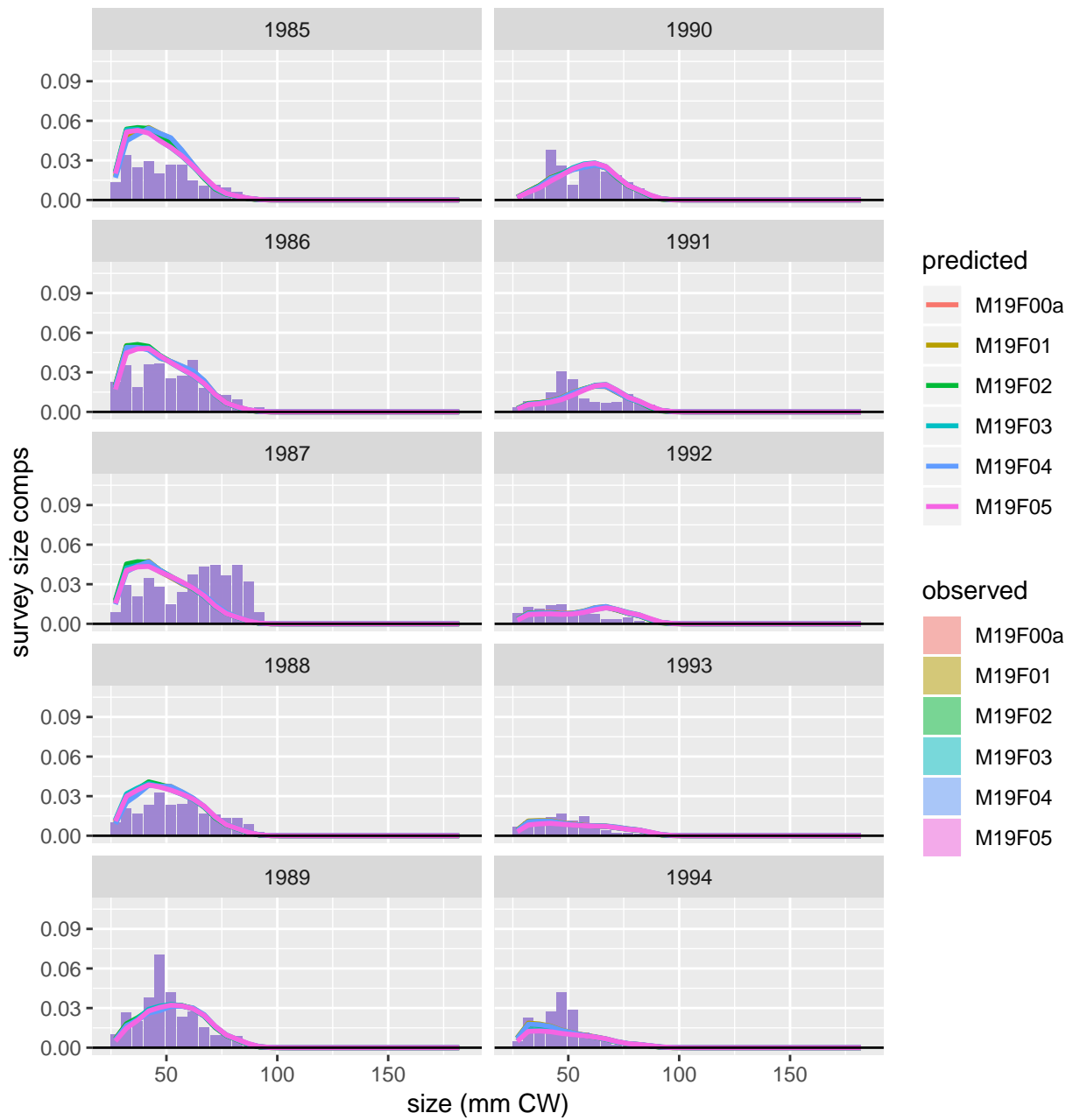


Figure 12: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS 0. Page 2 of 5.

NMFS 0: female, immature, all shell

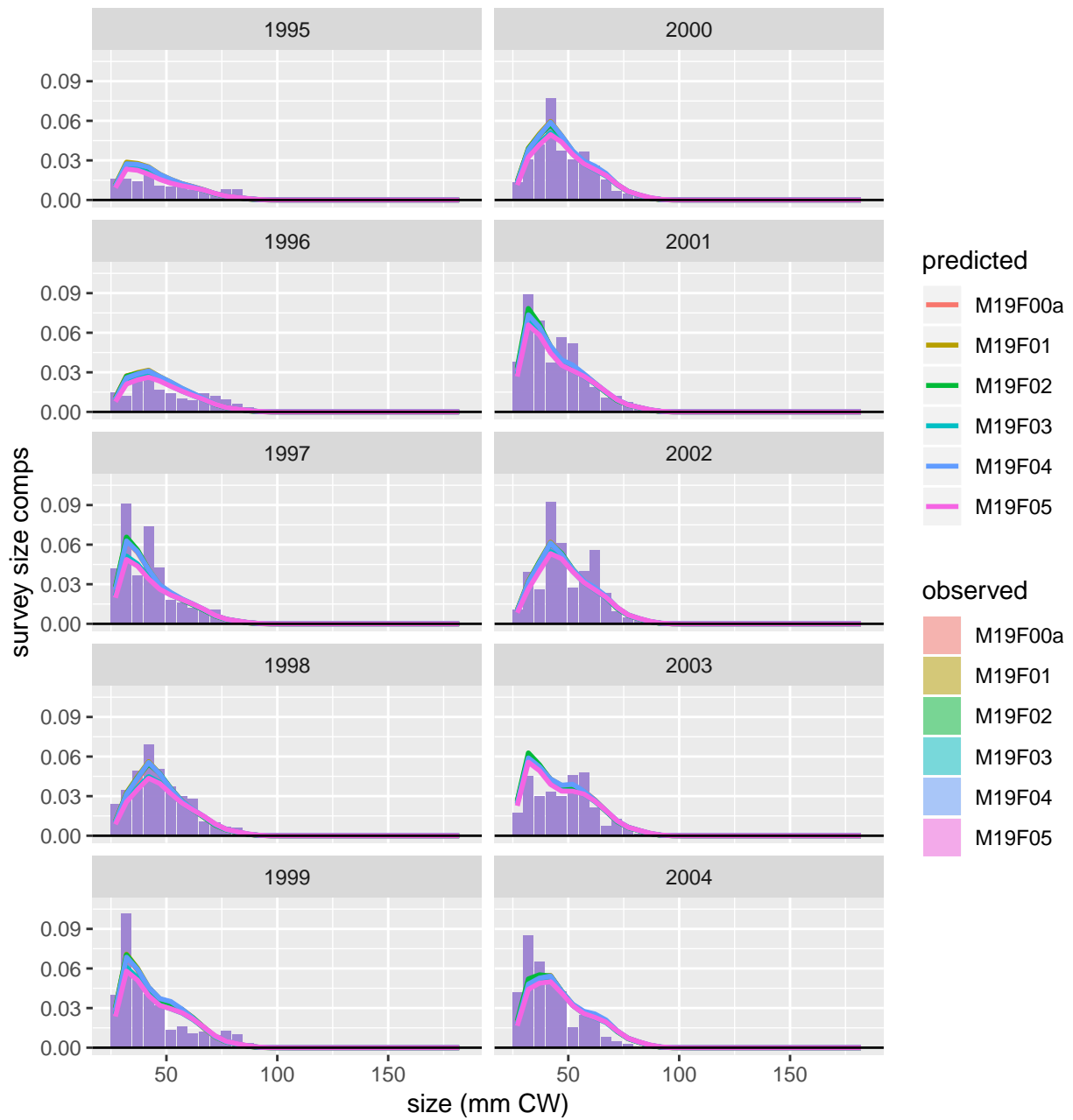


Figure 13: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS 0. Page 3 of 5.

NMFS 0: female, immature, all shell

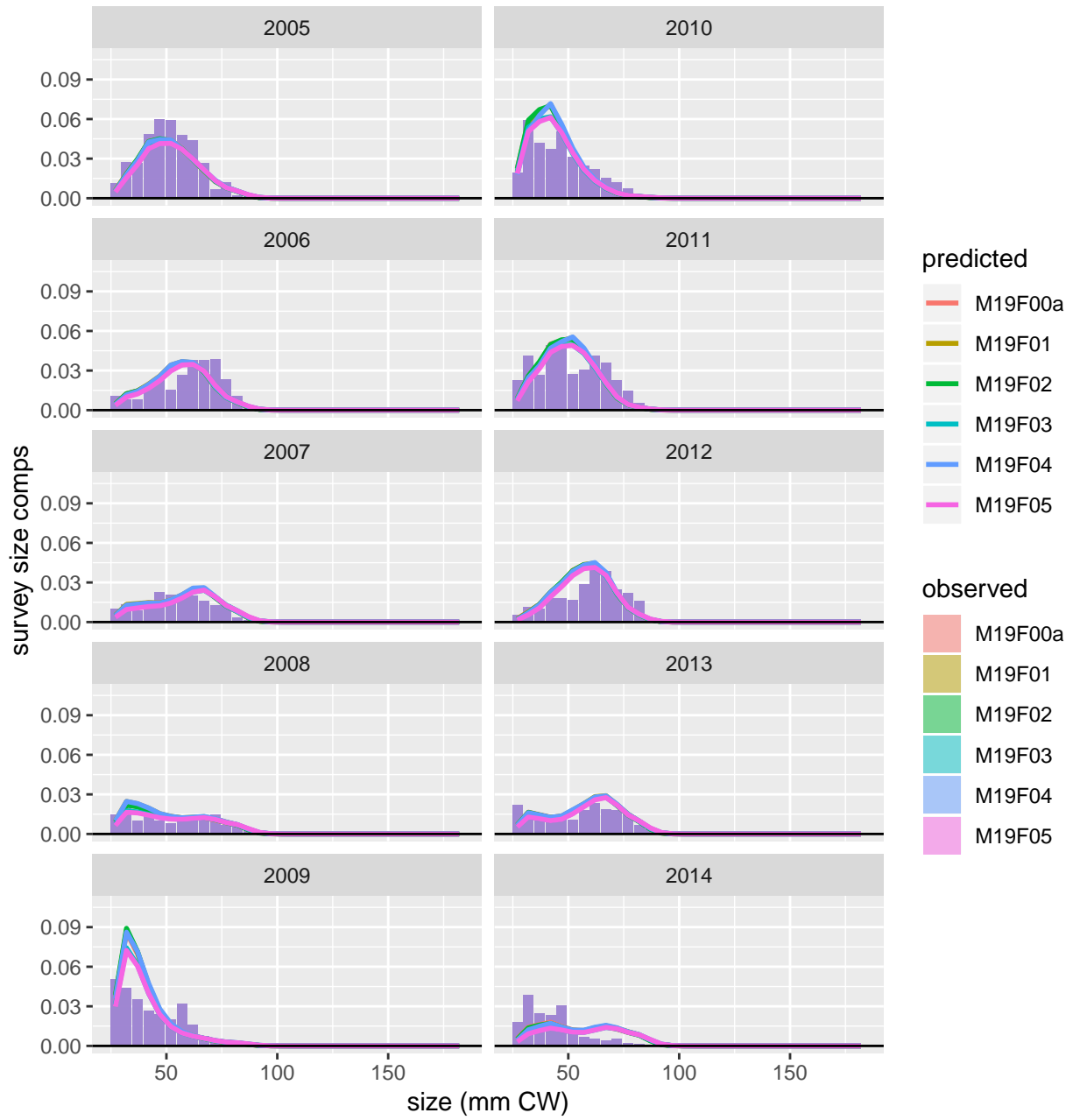


Figure 14: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS 0. Page 4 of 5.

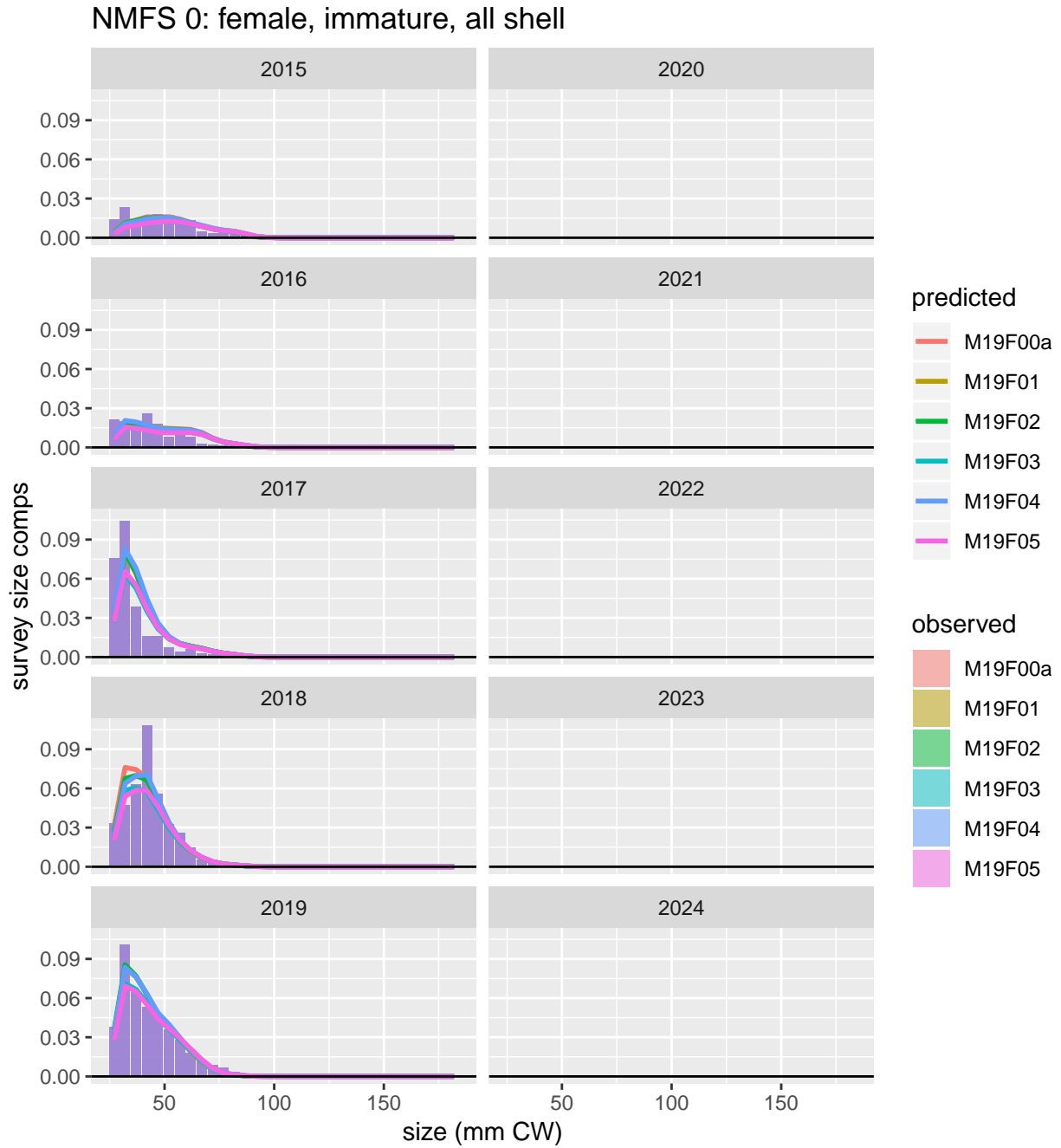


Figure 15: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS 0. Page 5 of 5.



NMFS 0: female, mature, all shell

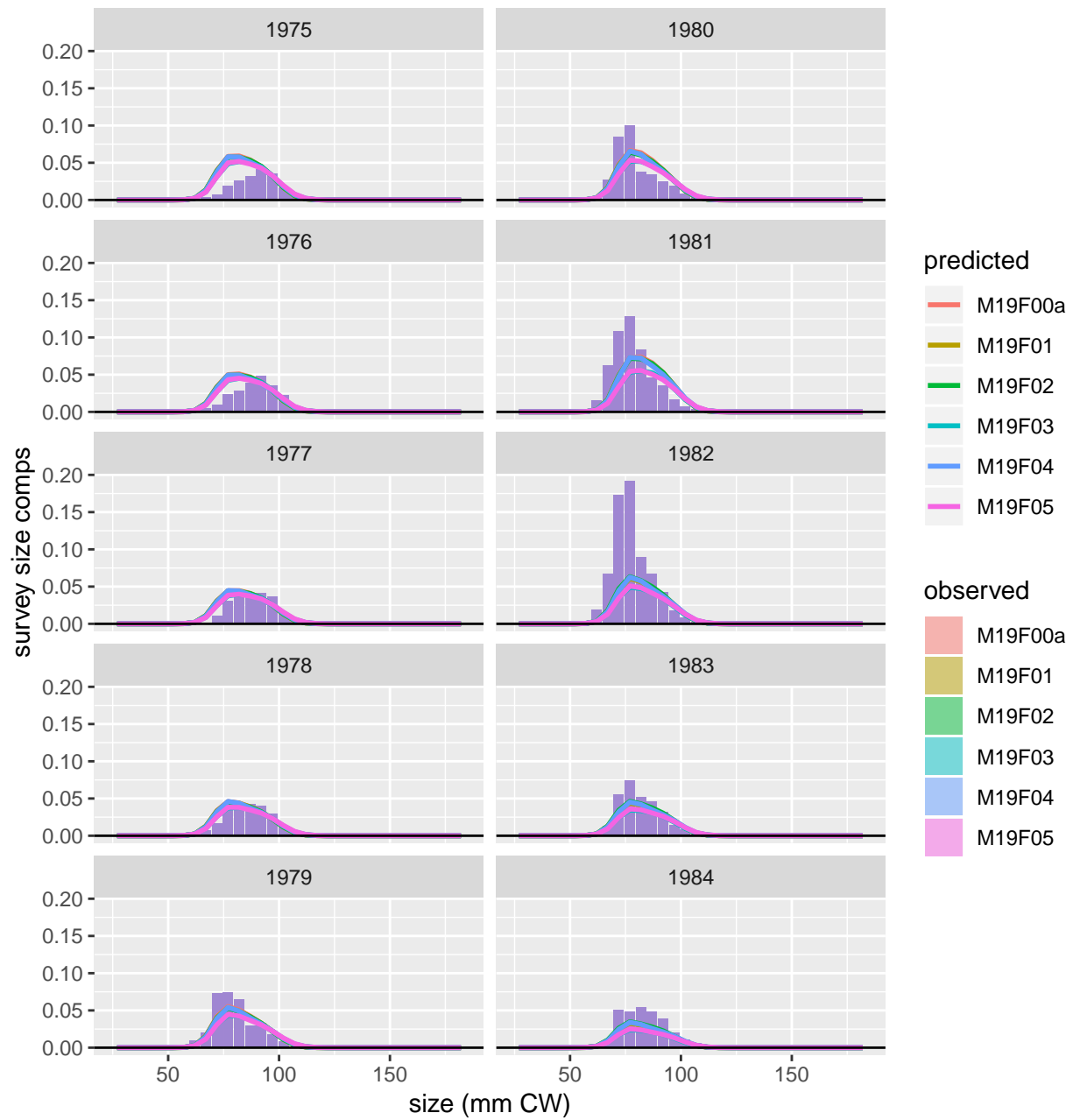


Figure 16: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS 0. Page 1 of 5.

NMFS 0: female, mature, all shell

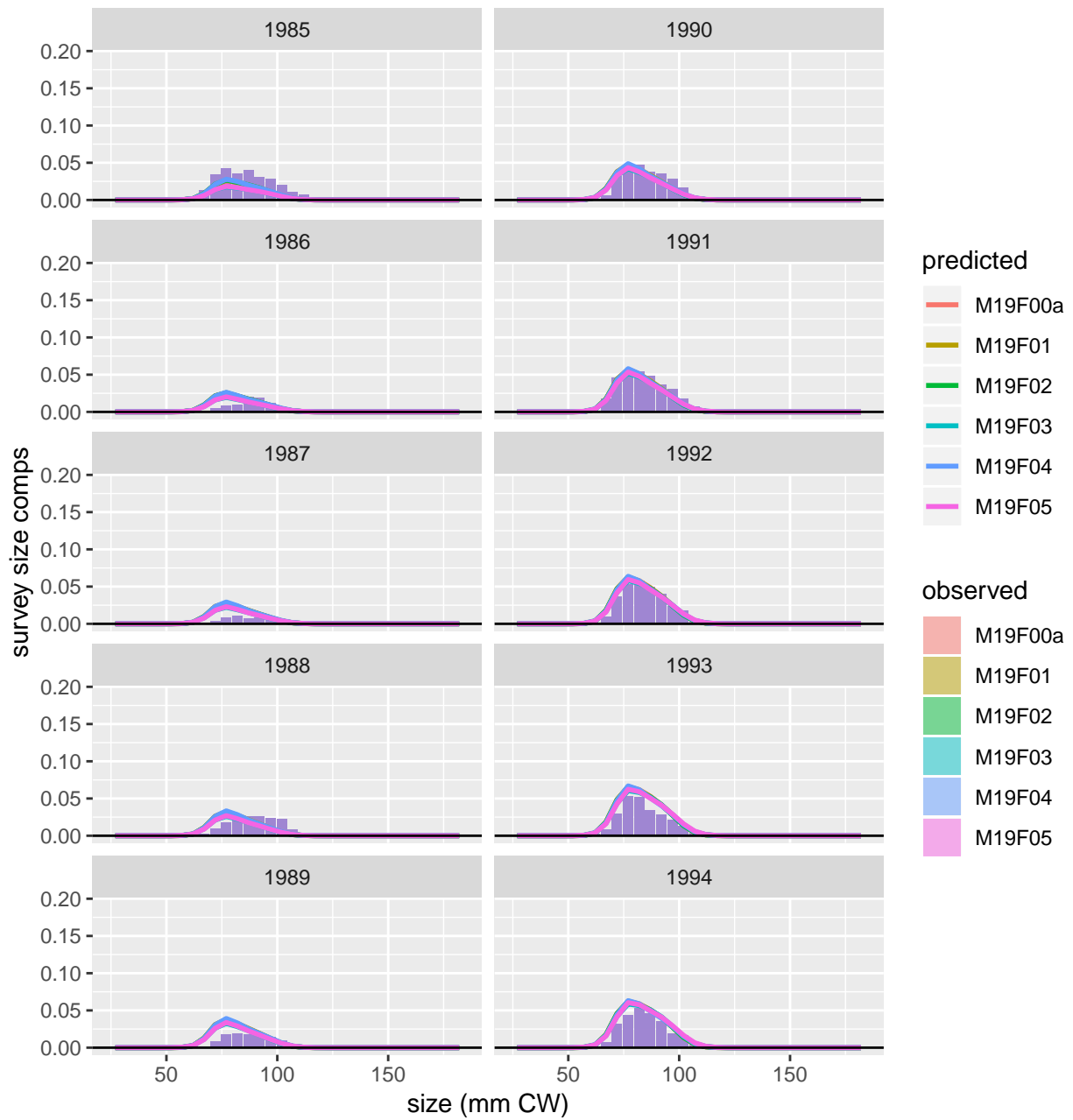


Figure 17: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS 0. Page 2 of 5.

NMFS 0: female, mature, all shell

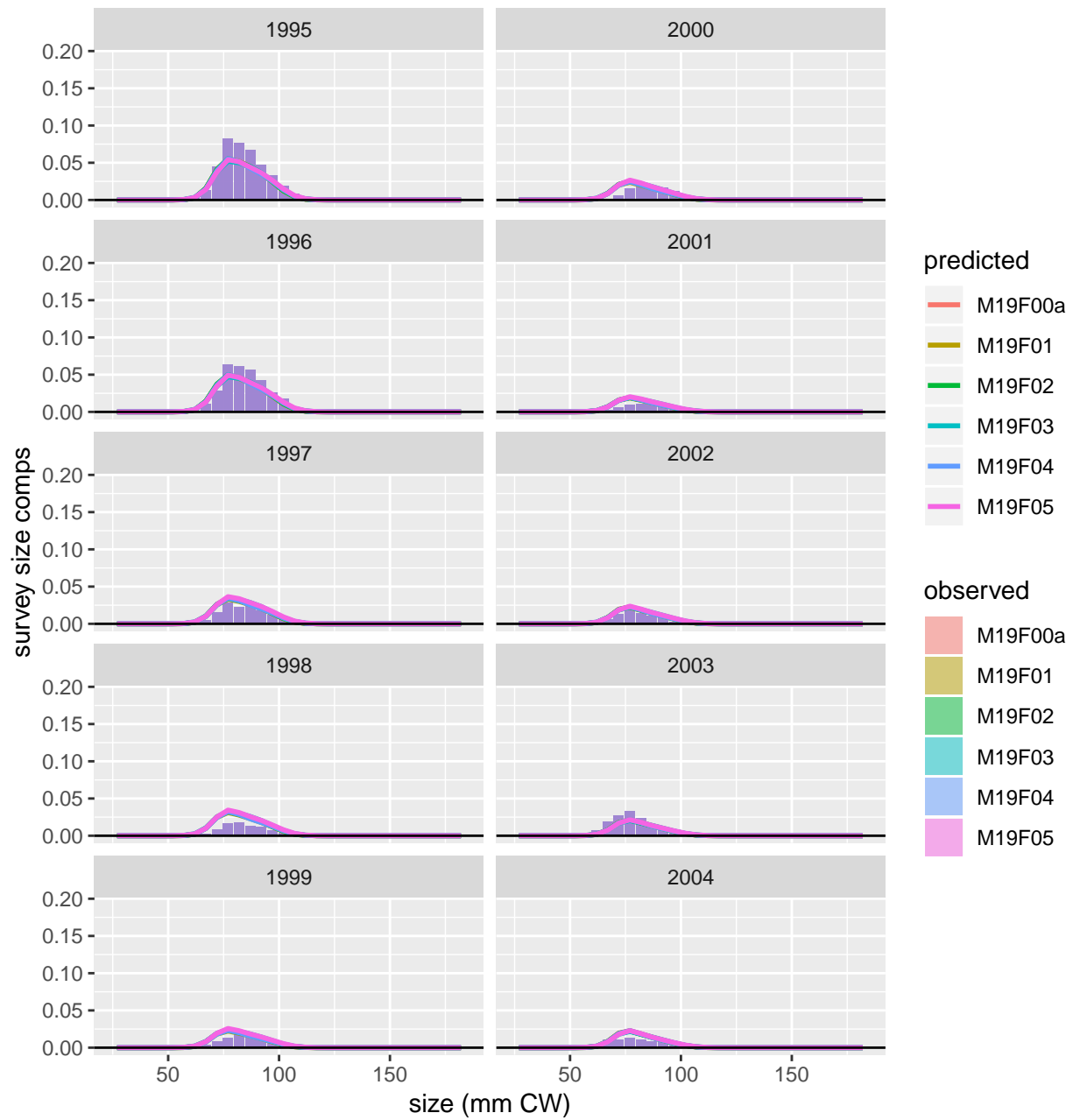


Figure 18: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS 0. Page 3 of 5.

NMFS 0: female, mature, all shell

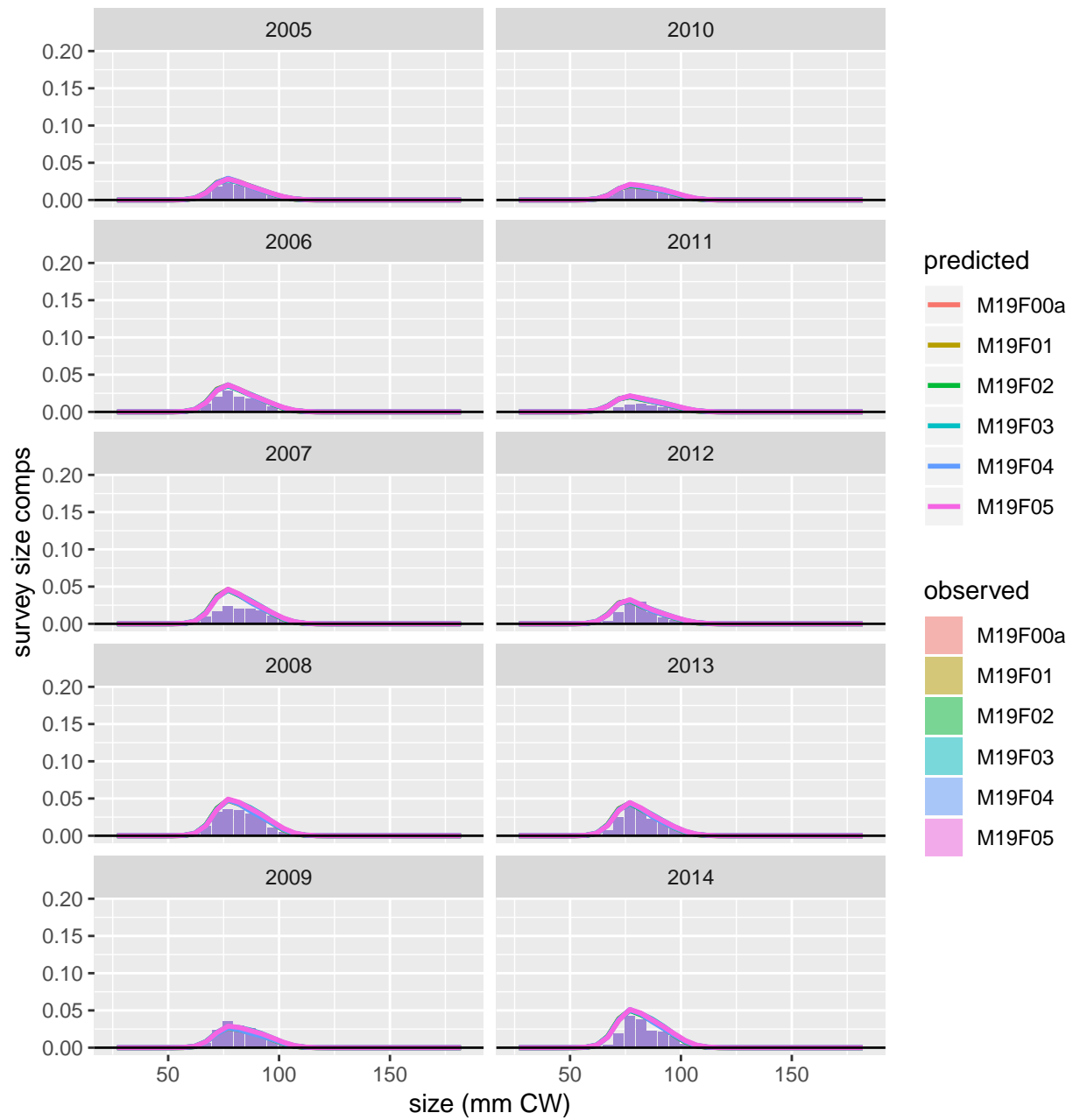


Figure 19: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS 0. Page 4 of 5.

### NMFS 0: female, mature, all shell

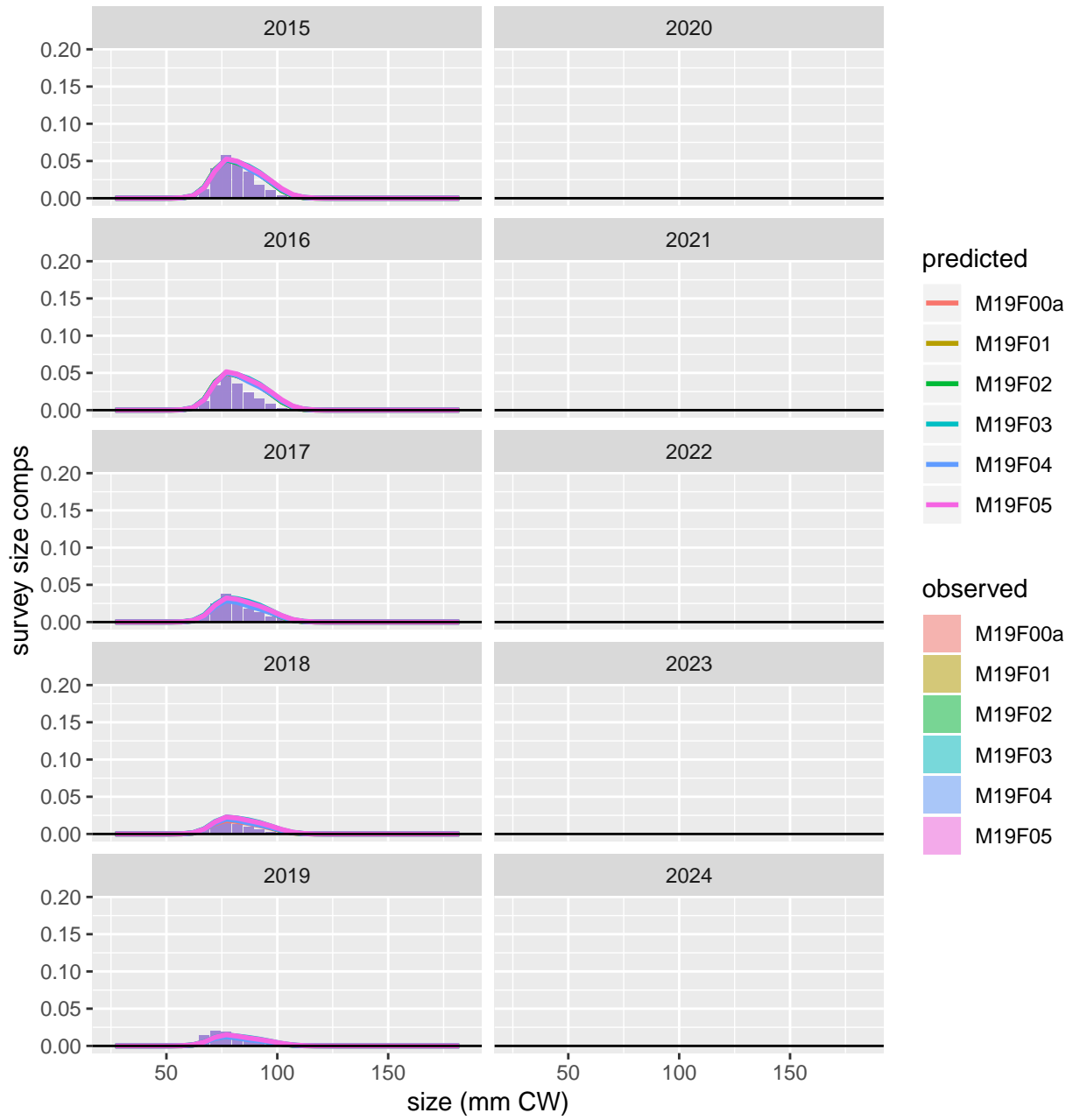


Figure 20: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS 0. Page 5 of 5.

NMFS M: male, all maturity, all shell

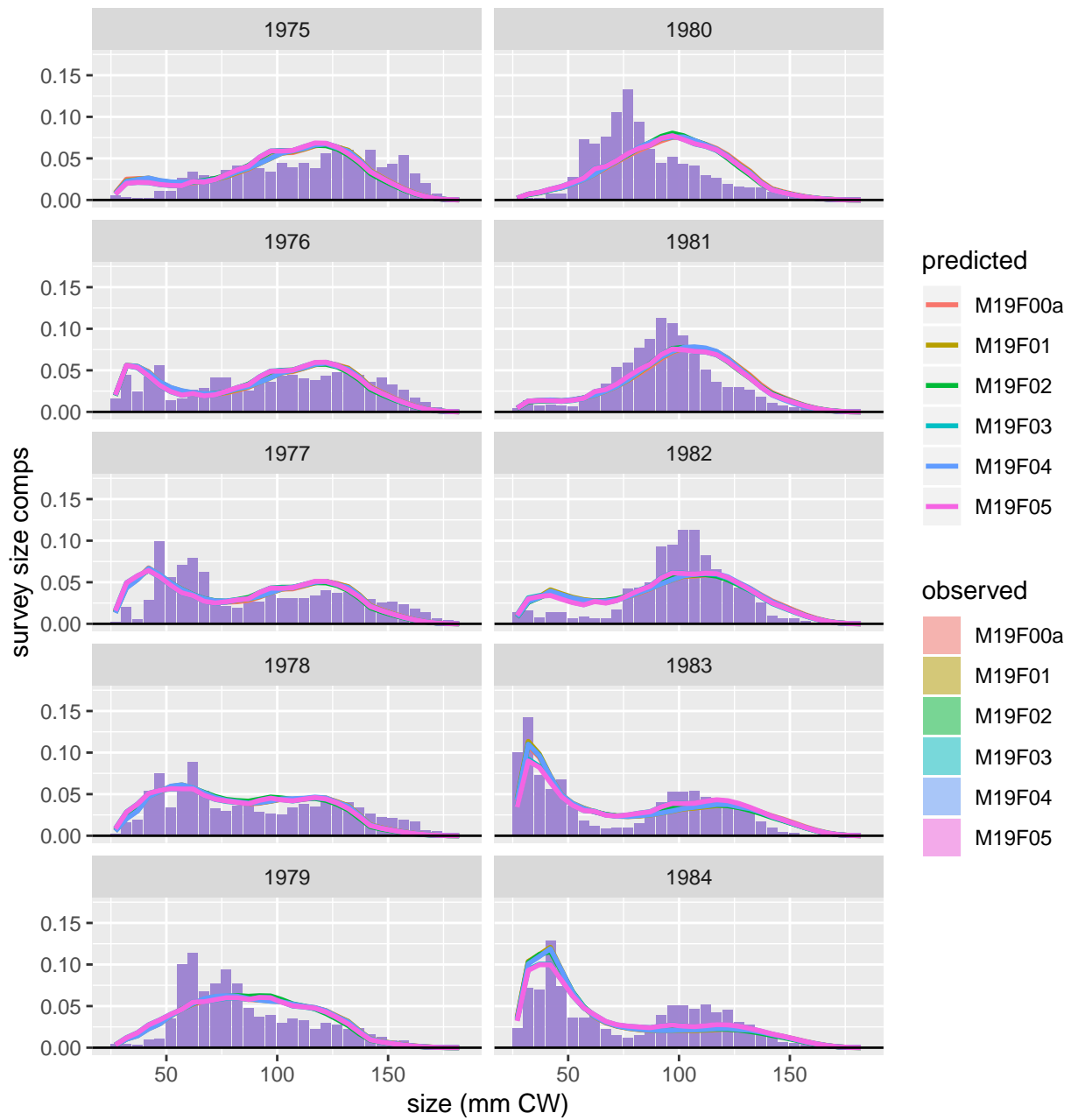


Figure 21: Comparison of observed and predicted male, all maturity, all shell survey size comps for NMFS M. Page 1 of 5.

NMFS M: male, all maturity, all shell

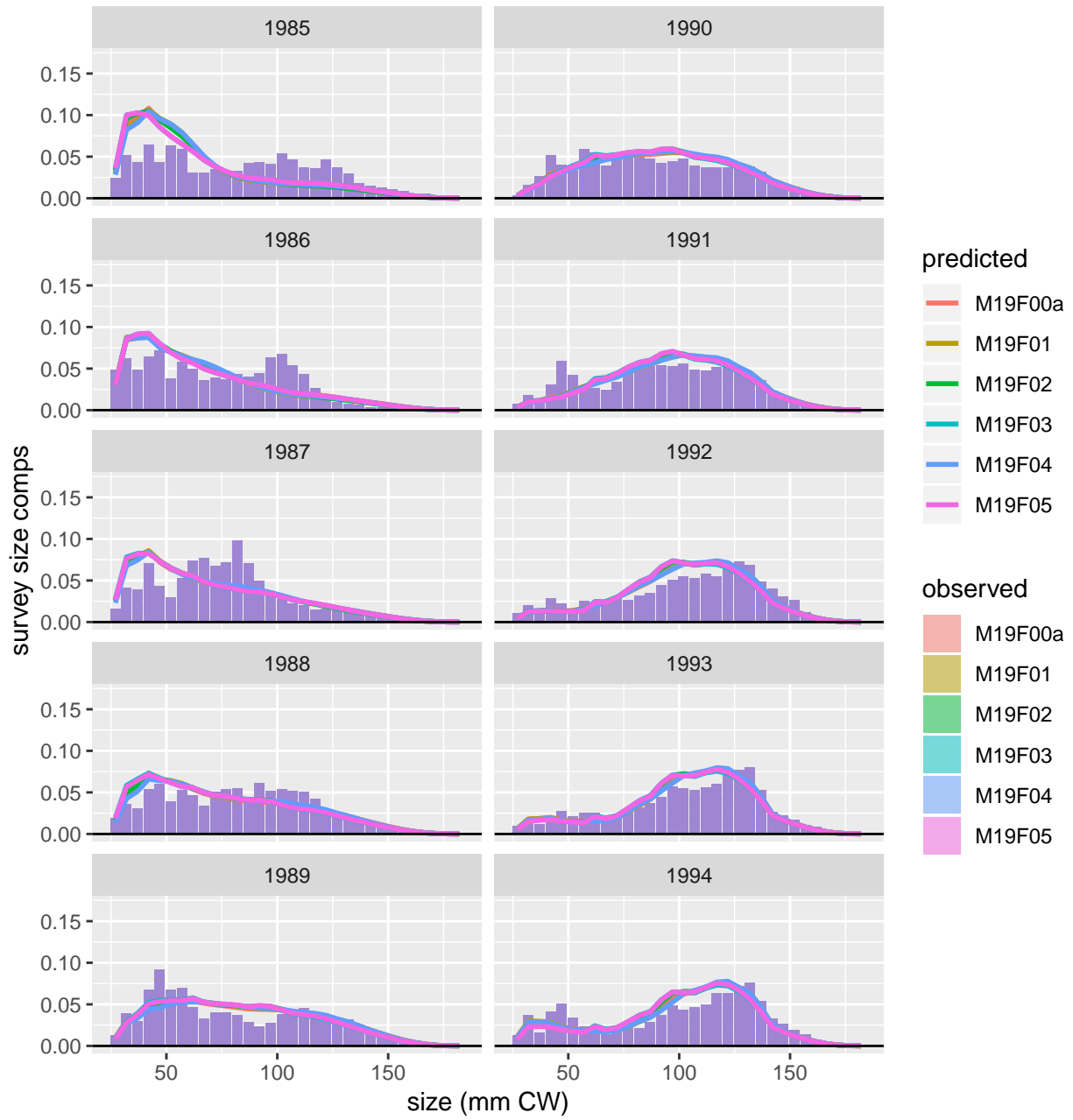


Figure 22: Comparison of observed and predicted male, all maturity, all shell survey size comps for NMFS M. Page 2 of 5.

NMFS M: male, all maturity, all shell

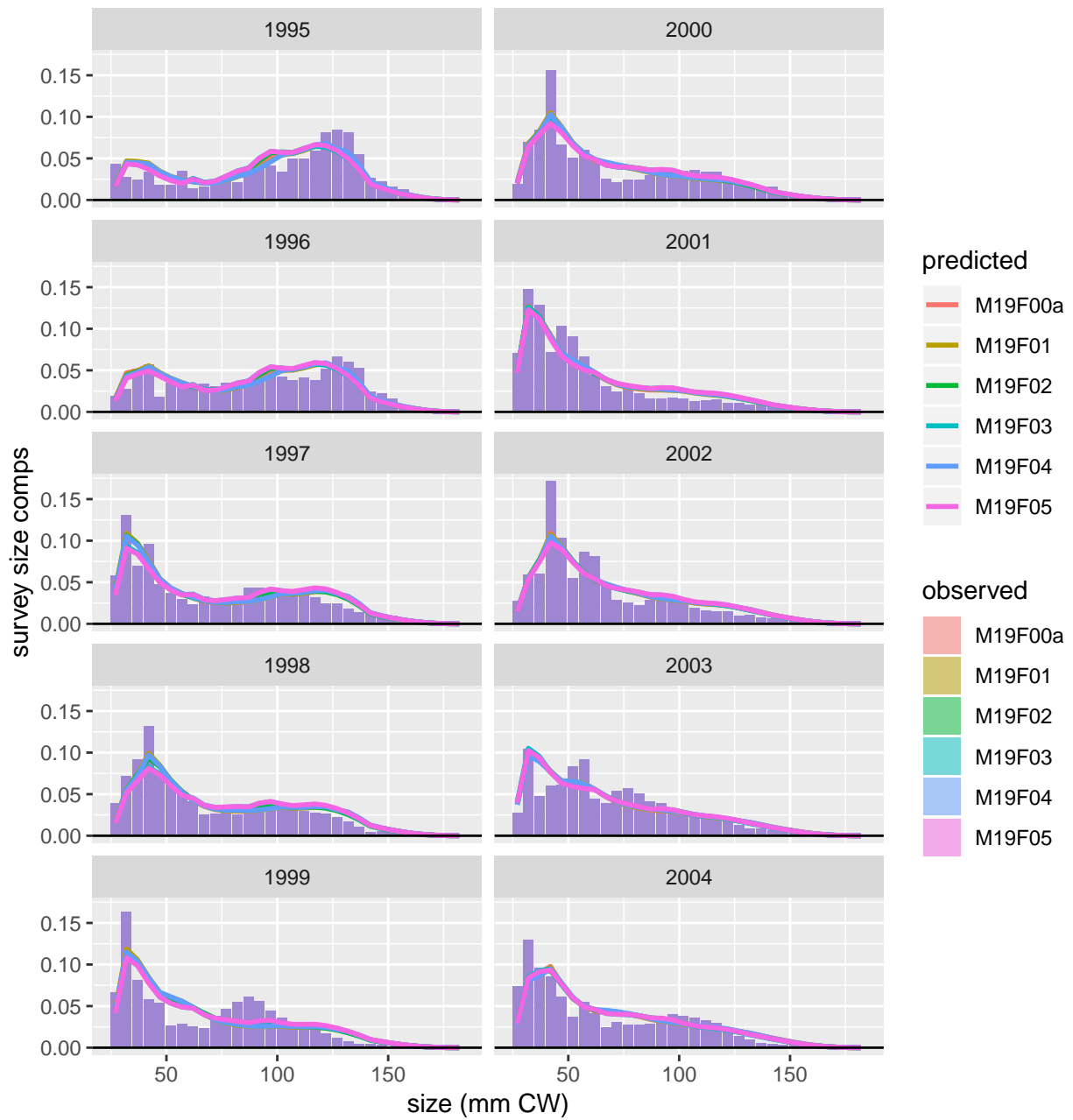


Figure 23: Comparison of observed and predicted male, all maturity, all shell survey size comps for NMFS M. Page 3 of 5.



NMFS M: male, all maturity, all shell

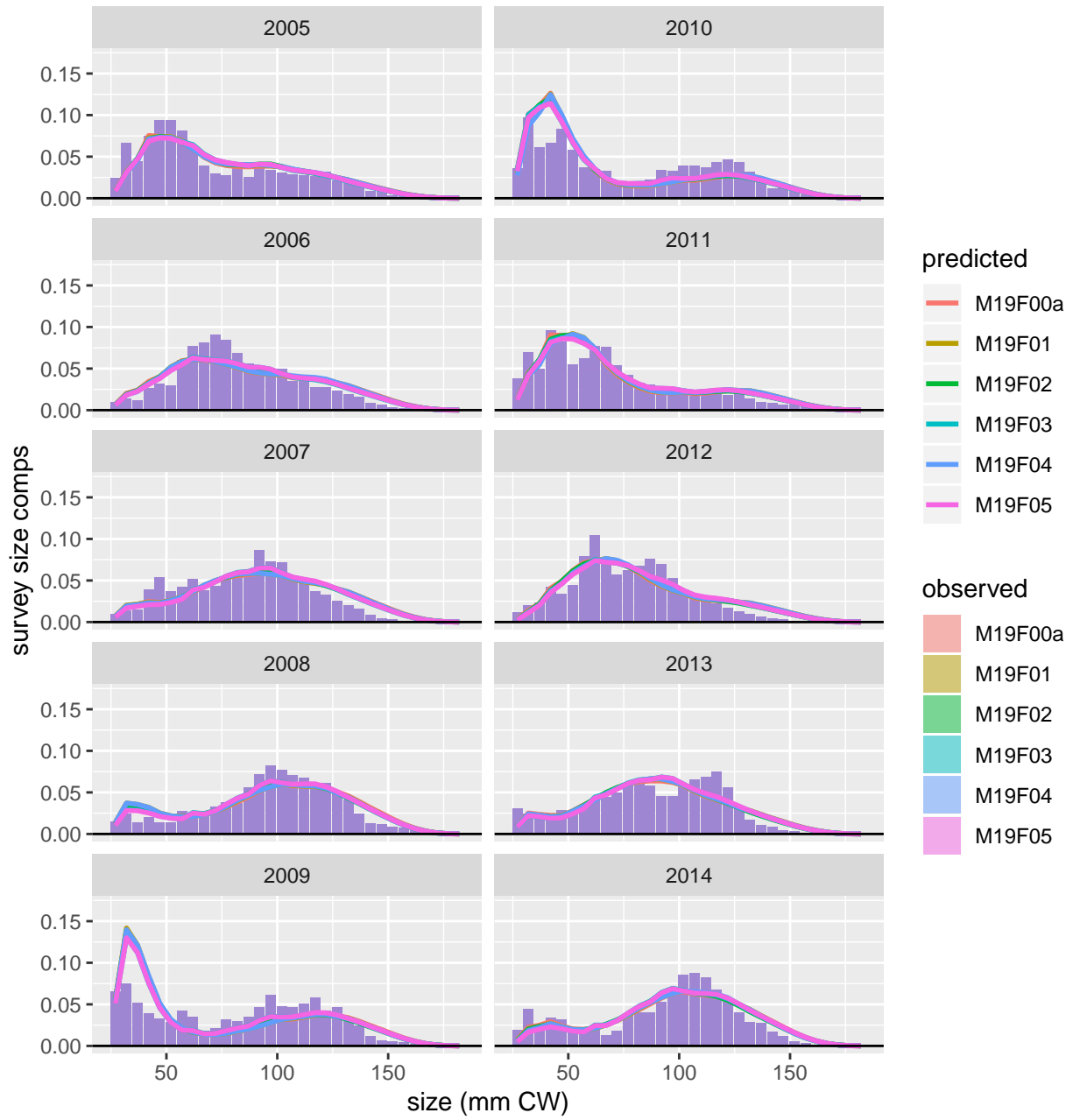


Figure 24: Comparison of observed and predicted male, all maturity, all shell survey size comps for NMFS M. Page 4 of 5.

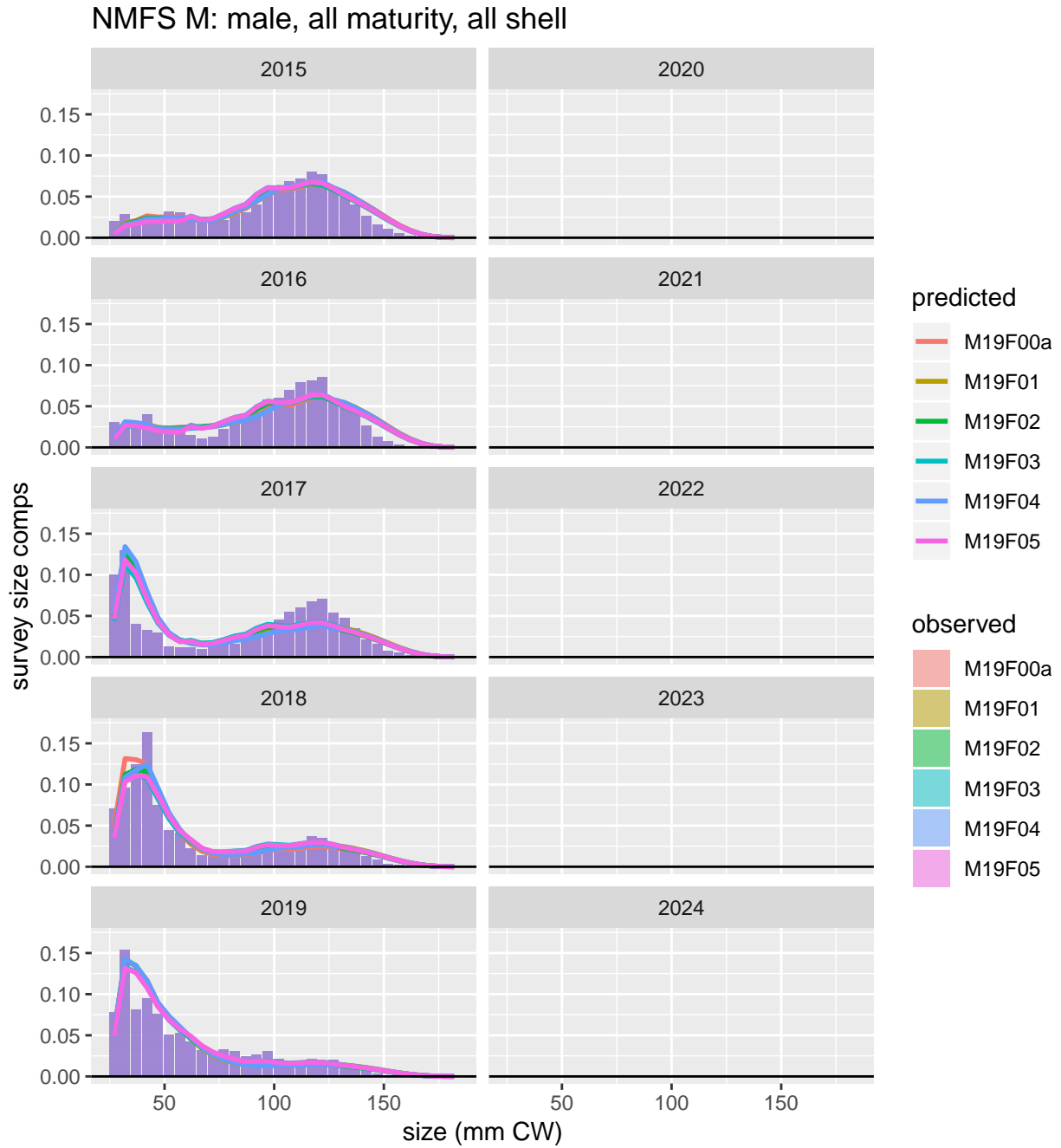


Figure 25: Comparison of observed and predicted male, all maturity, all shell survey size comps for NMFS M. Page 5 of 5.

NMFS F: female, immature, all shell

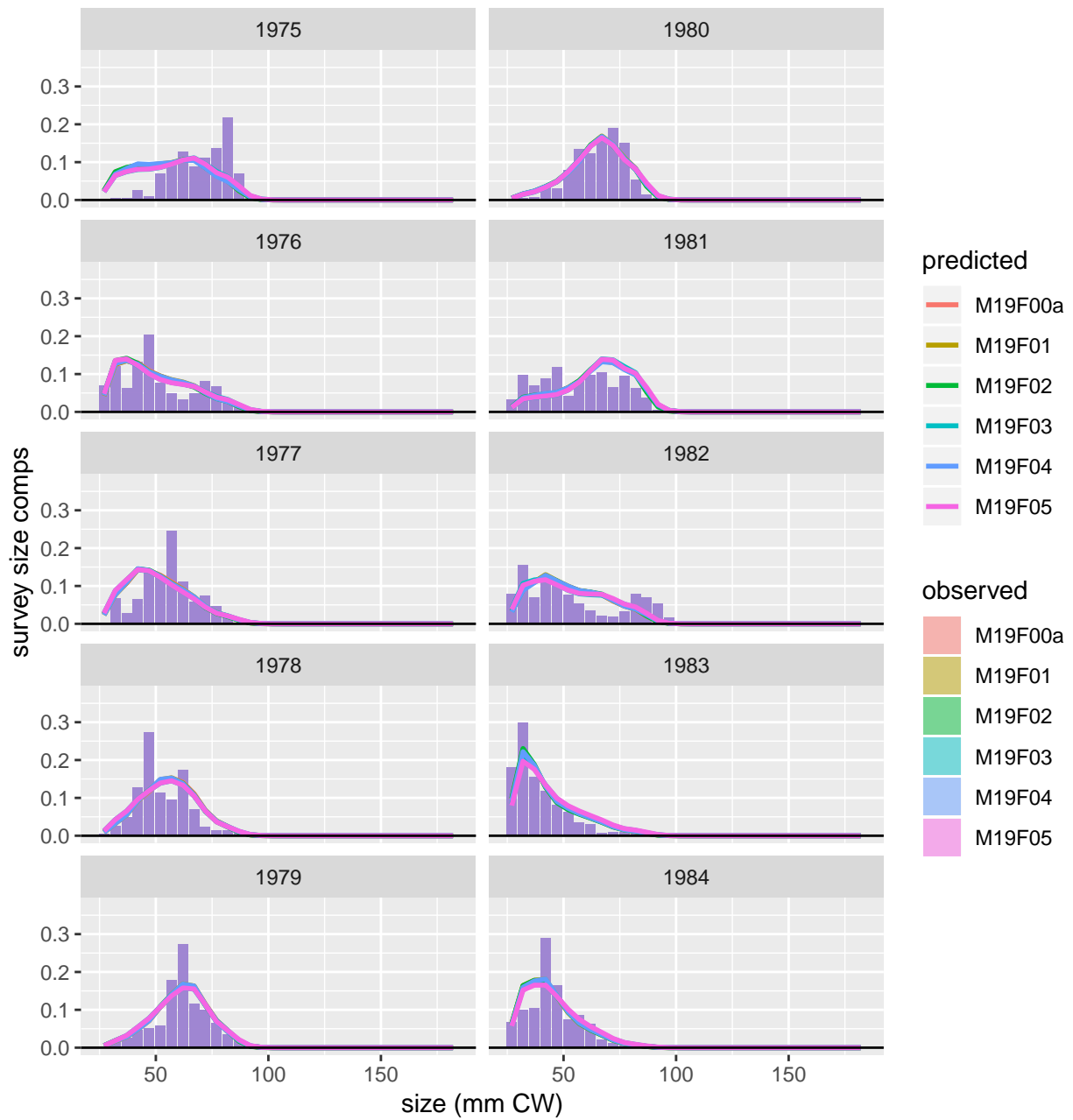


Figure 26: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS F. Page 1 of 5.

NMFS F: female, immature, all shell

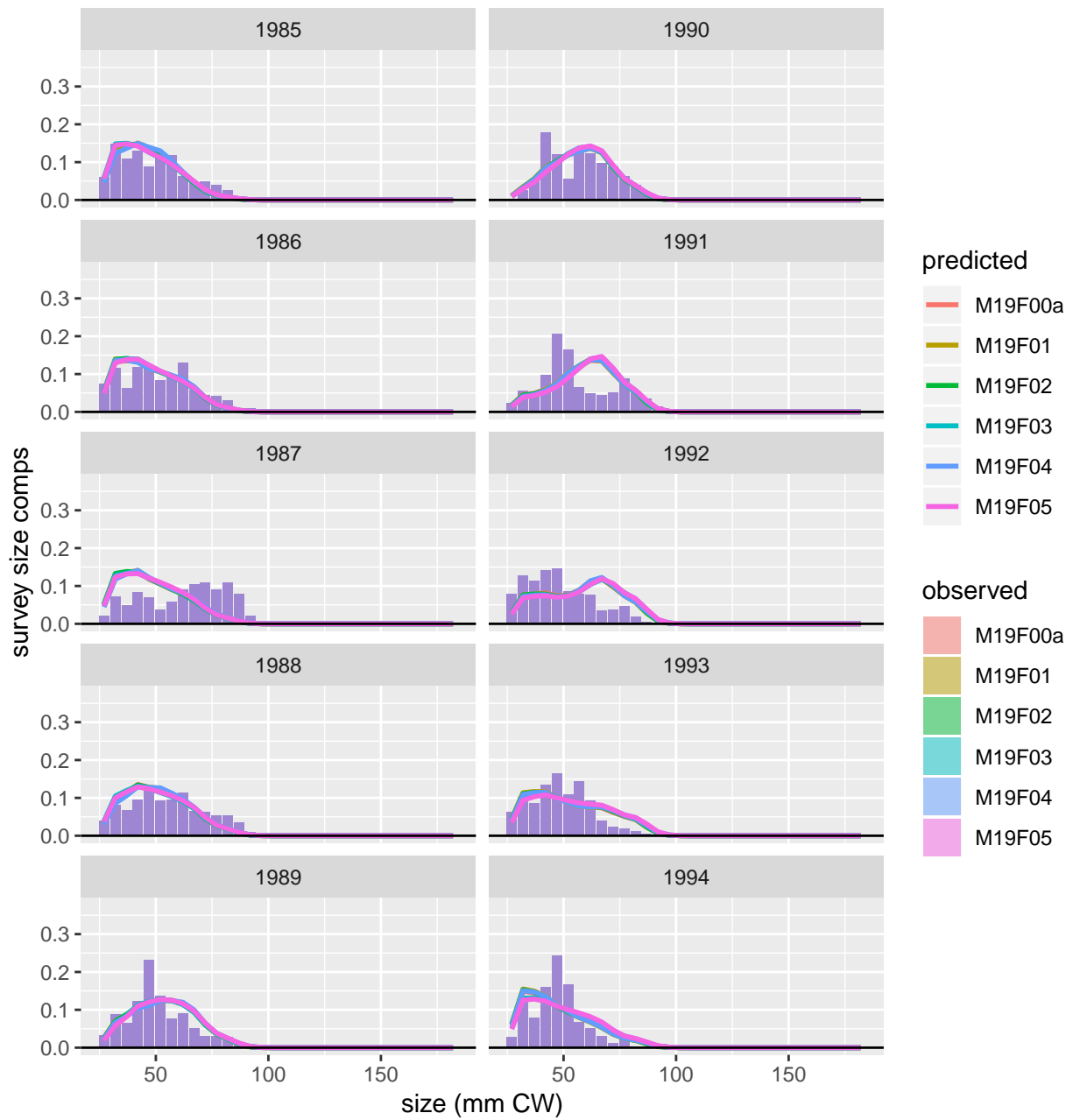


Figure 27: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS F. Page 2 of 5.

NMFS F: female, immature, all shell

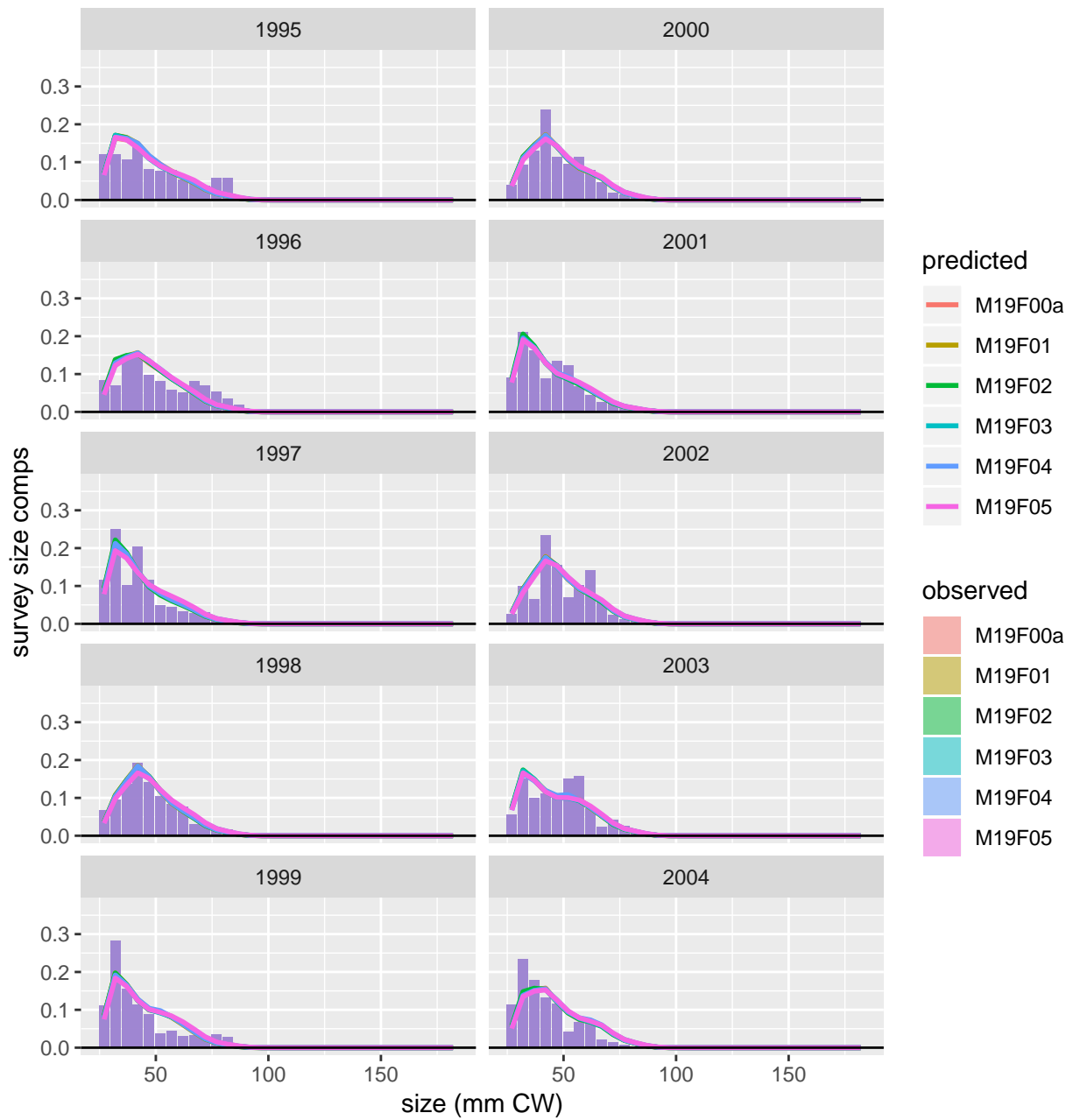


Figure 28: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS F. Page 3 of 5.

NMFS F: female, immature, all shell

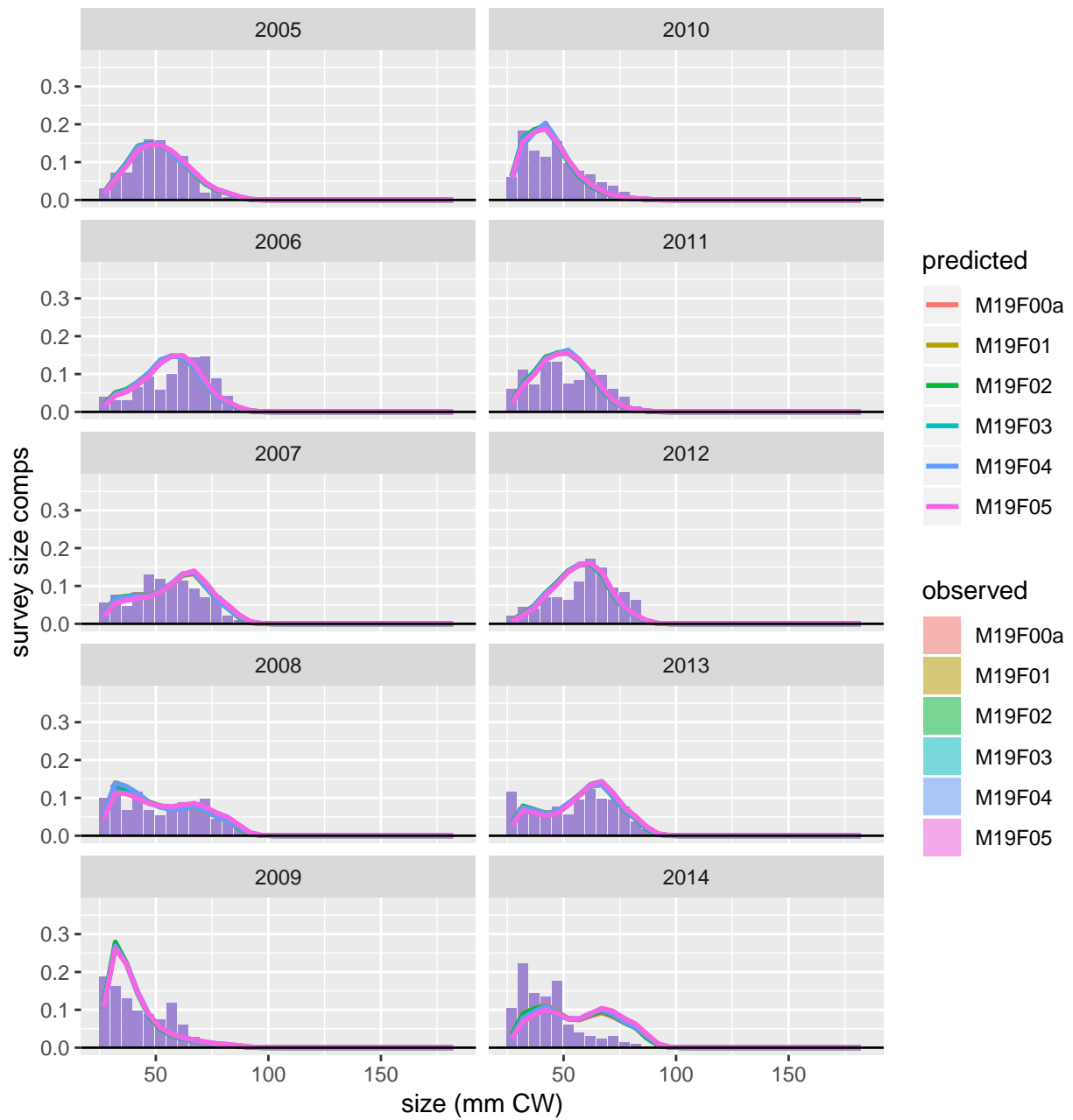


Figure 29: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS F. Page 4 of 5.

NMFS F: female, immature, all shell

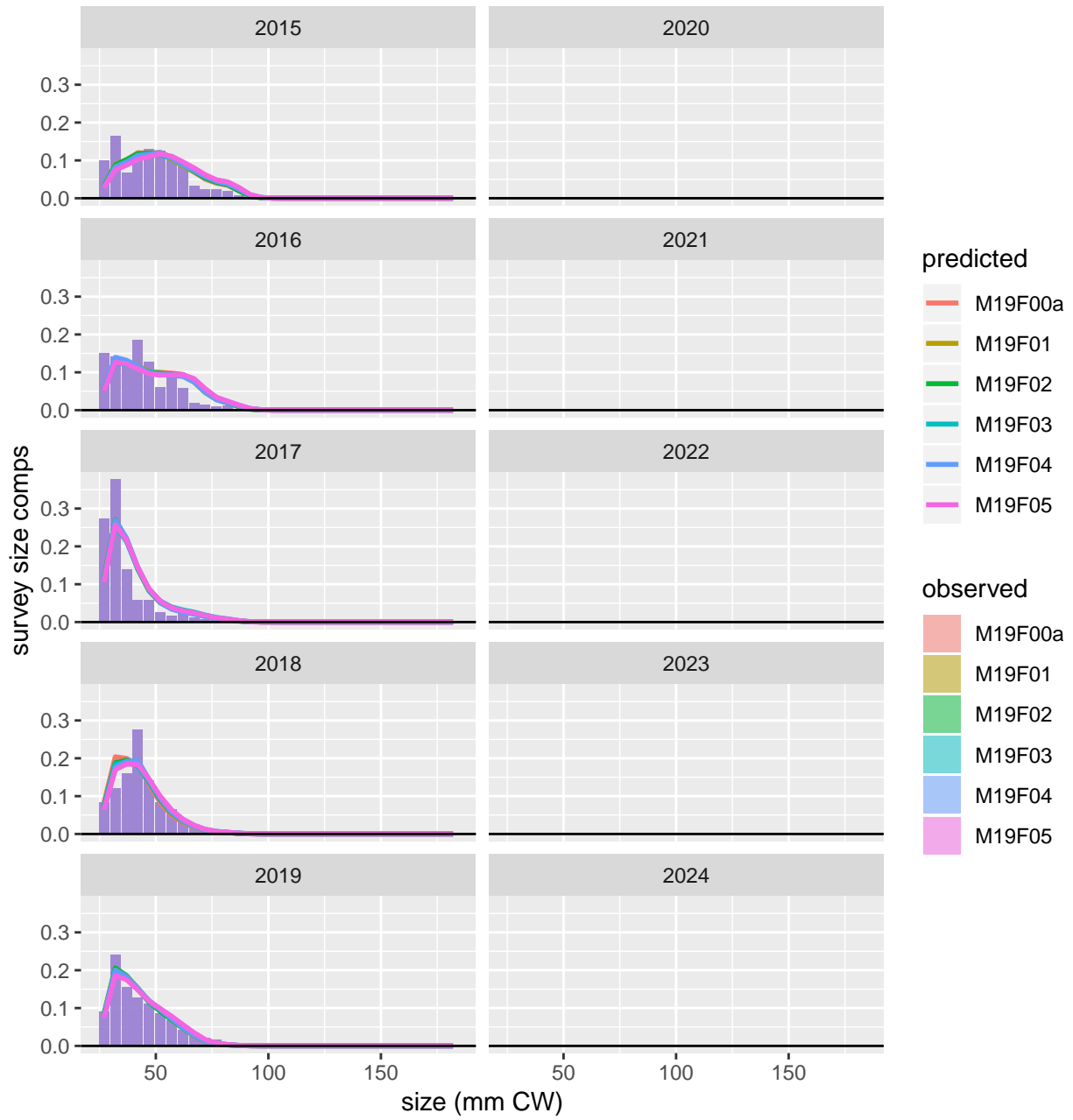


Figure 30: Comparison of observed and predicted female, immature, all shell survey size comps for NMFS F. Page 5 of 5.

### NMFS F: female, mature, all shell

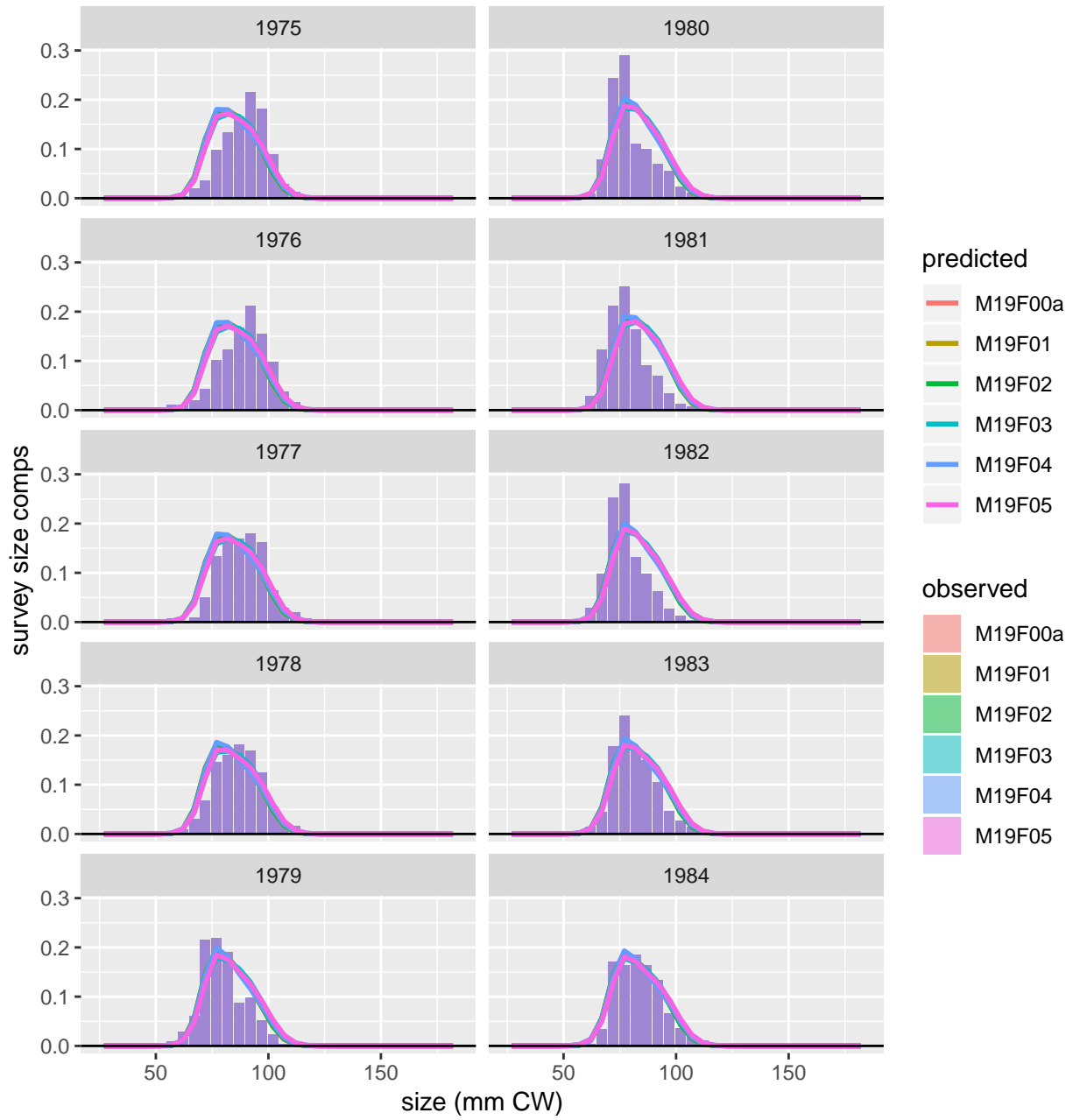


Figure 31: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS F. Page 1 of 5.



NMFS F: female, mature, all shell

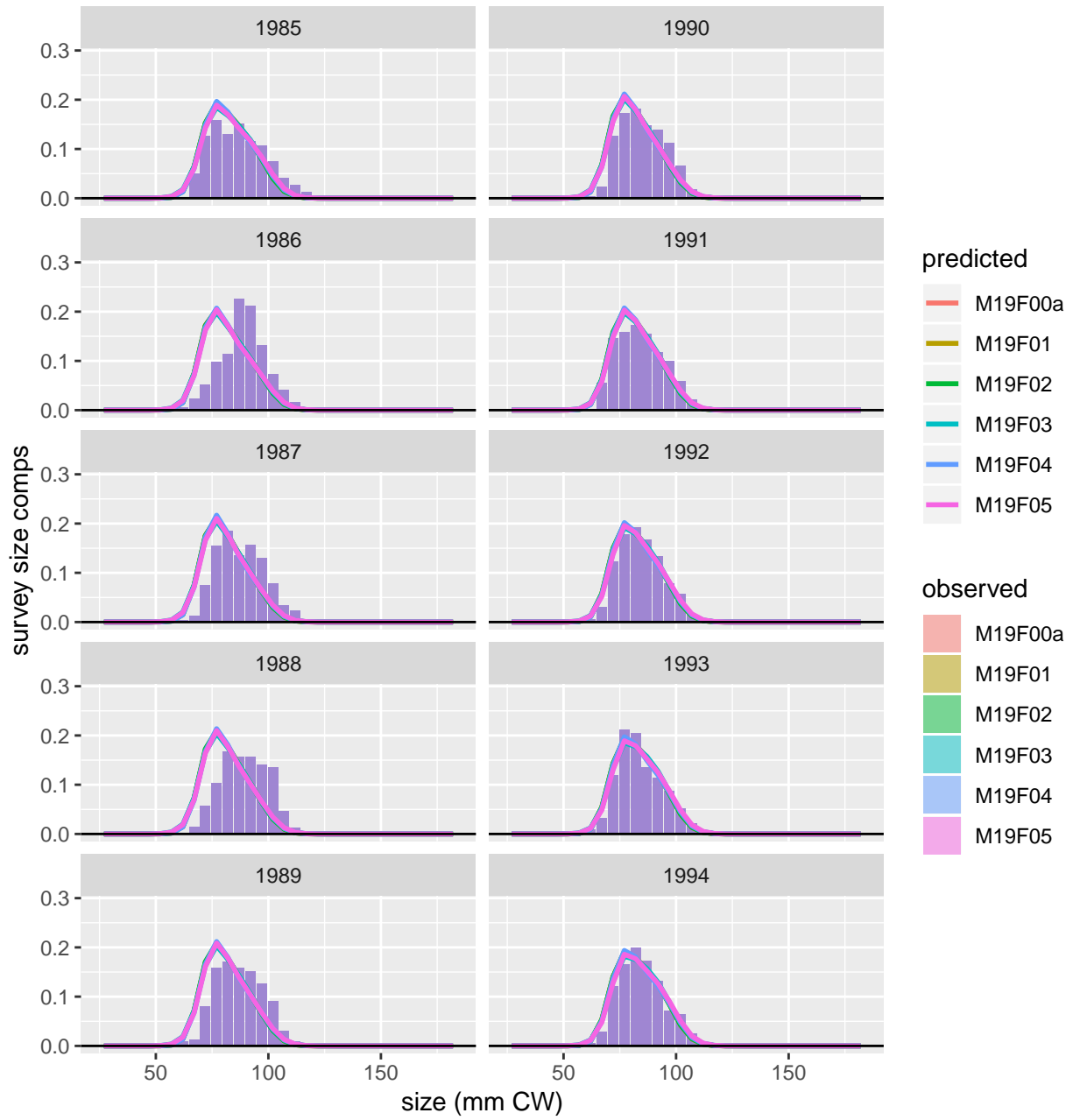


Figure 32: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS F. Page 2 of 5.

NMFS F: female, mature, all shell

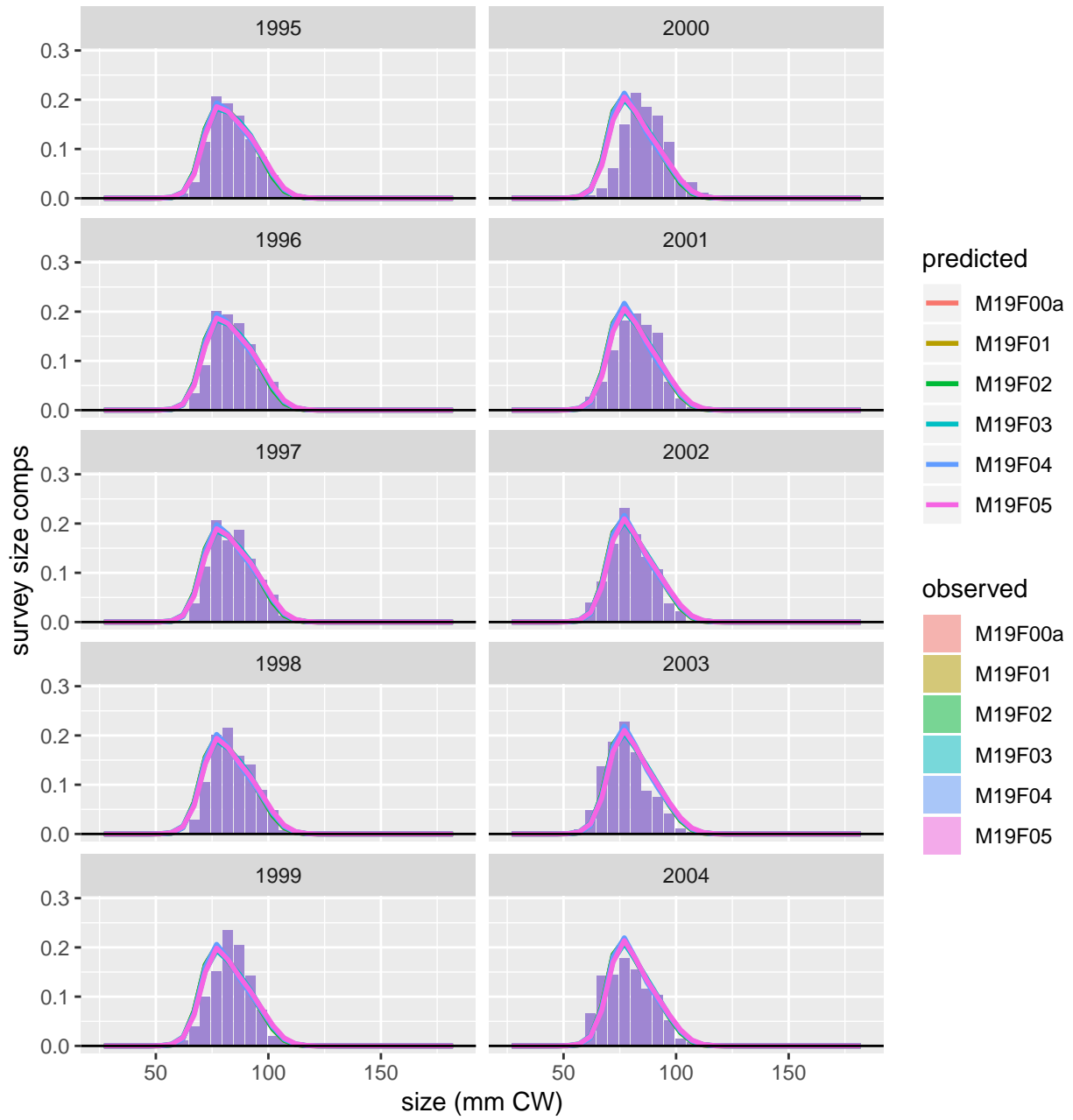


Figure 33: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS F. Page 3 of 5.

NMFS F: female, mature, all shell

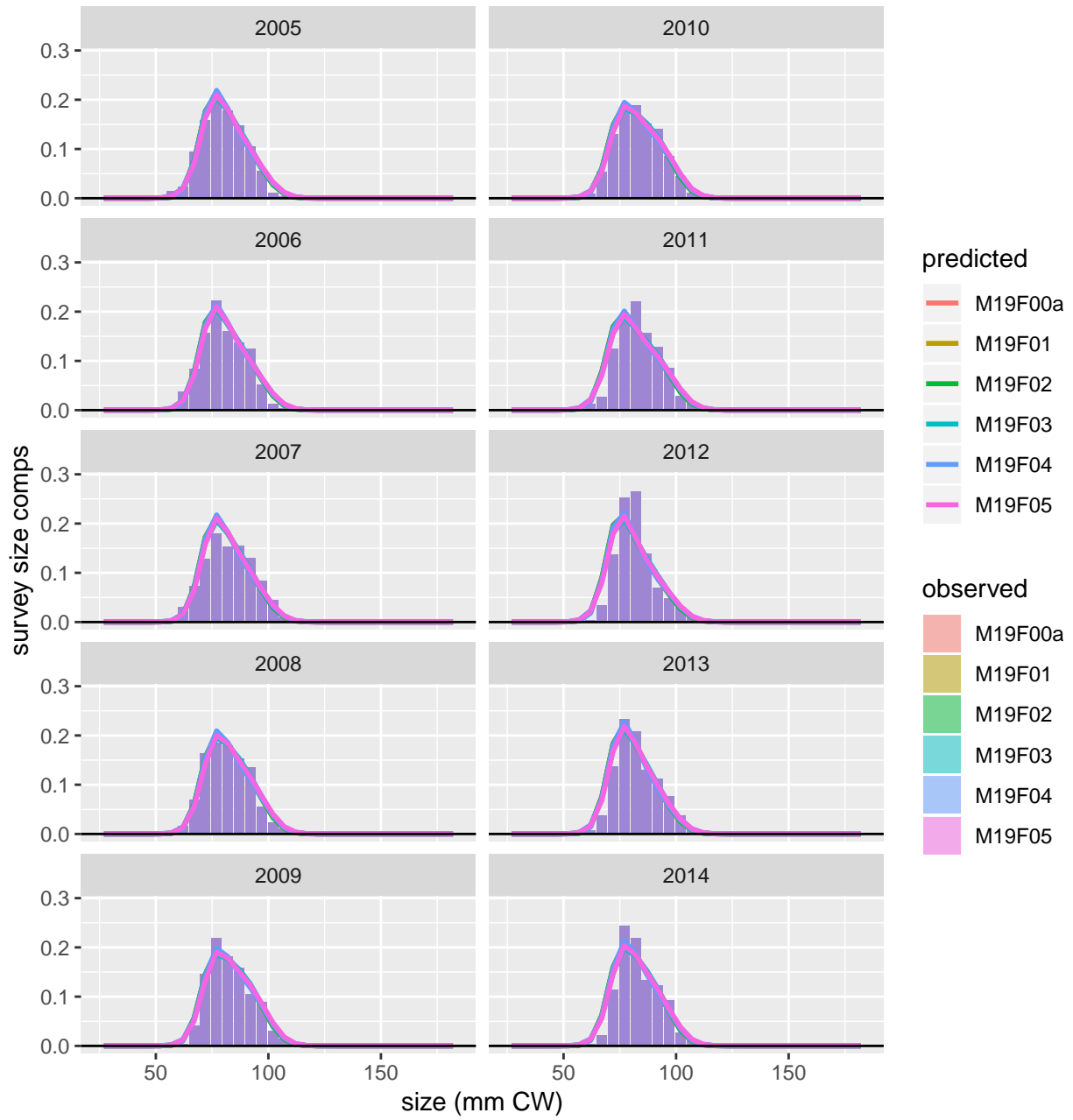


Figure 34: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS F. Page 4 of 5.

### NMFS F: female, mature, all shell

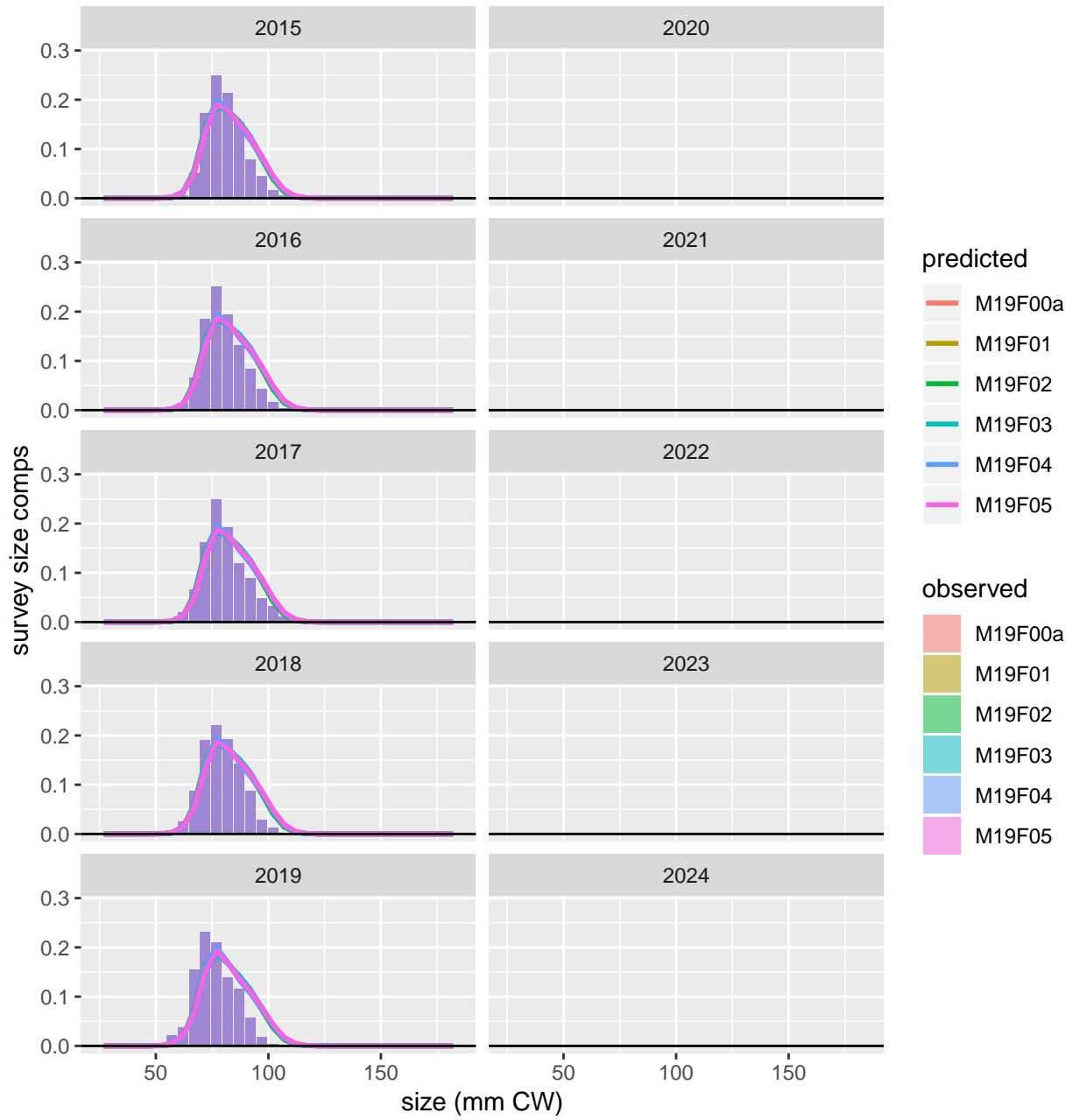


Figure 35: Comparison of observed and predicted female, mature, all shell survey size comps for NMFS F. Page 5 of 5.

### SBS NMFS males: male, all maturity, all shell

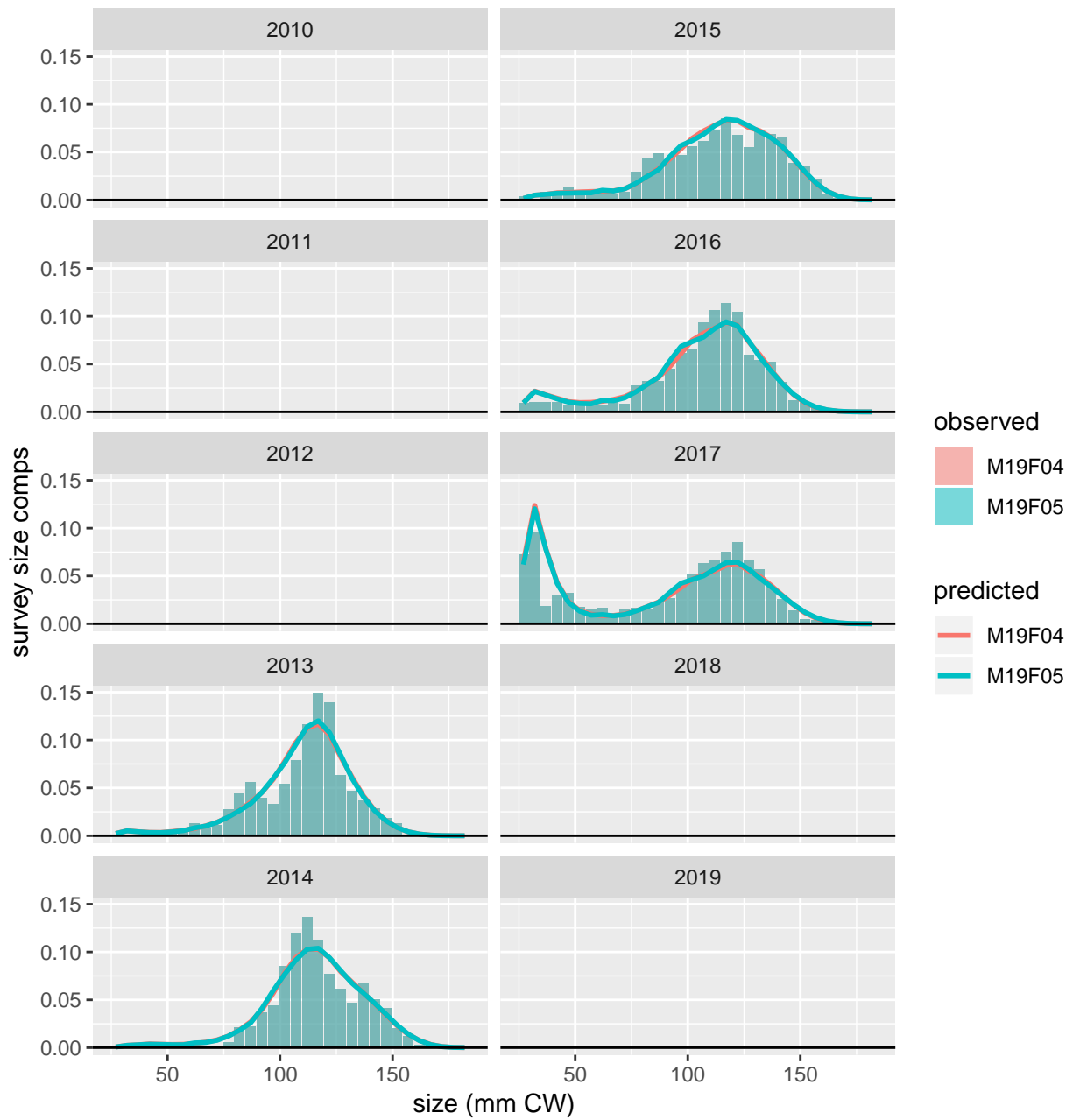


Figure 36: Comparison of observed and predicted male, all maturity, all shell survey size comps for SBS NMFS males. Page 1 of 1.

### SBS NMFS females: female, immature, all shell

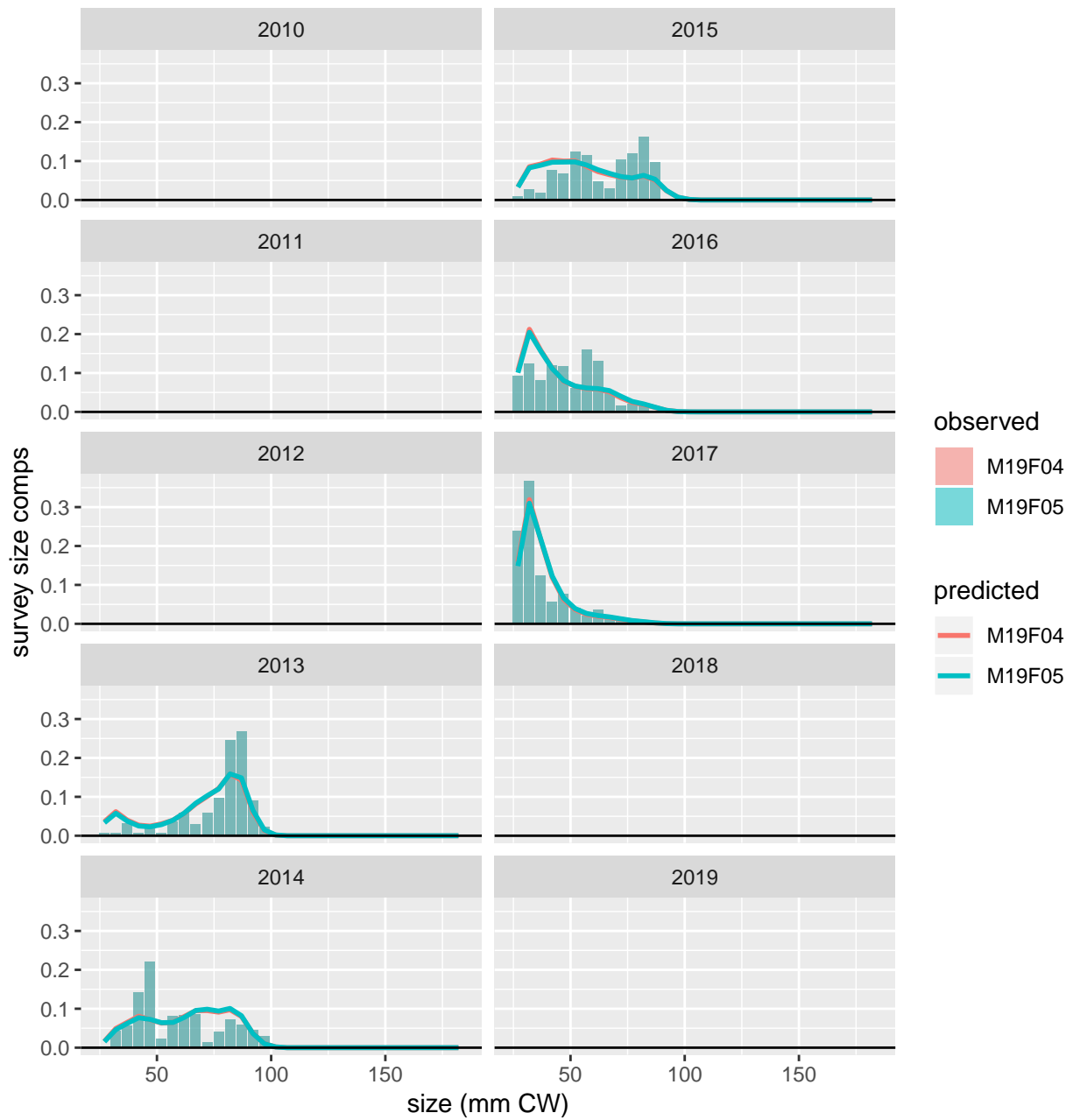


Figure 37: Comparison of observed and predicted female, immature, all shell survey size comps for SBS NMFS females. Page 1 of 1.

SBS NMFS females: female, mature, all shell

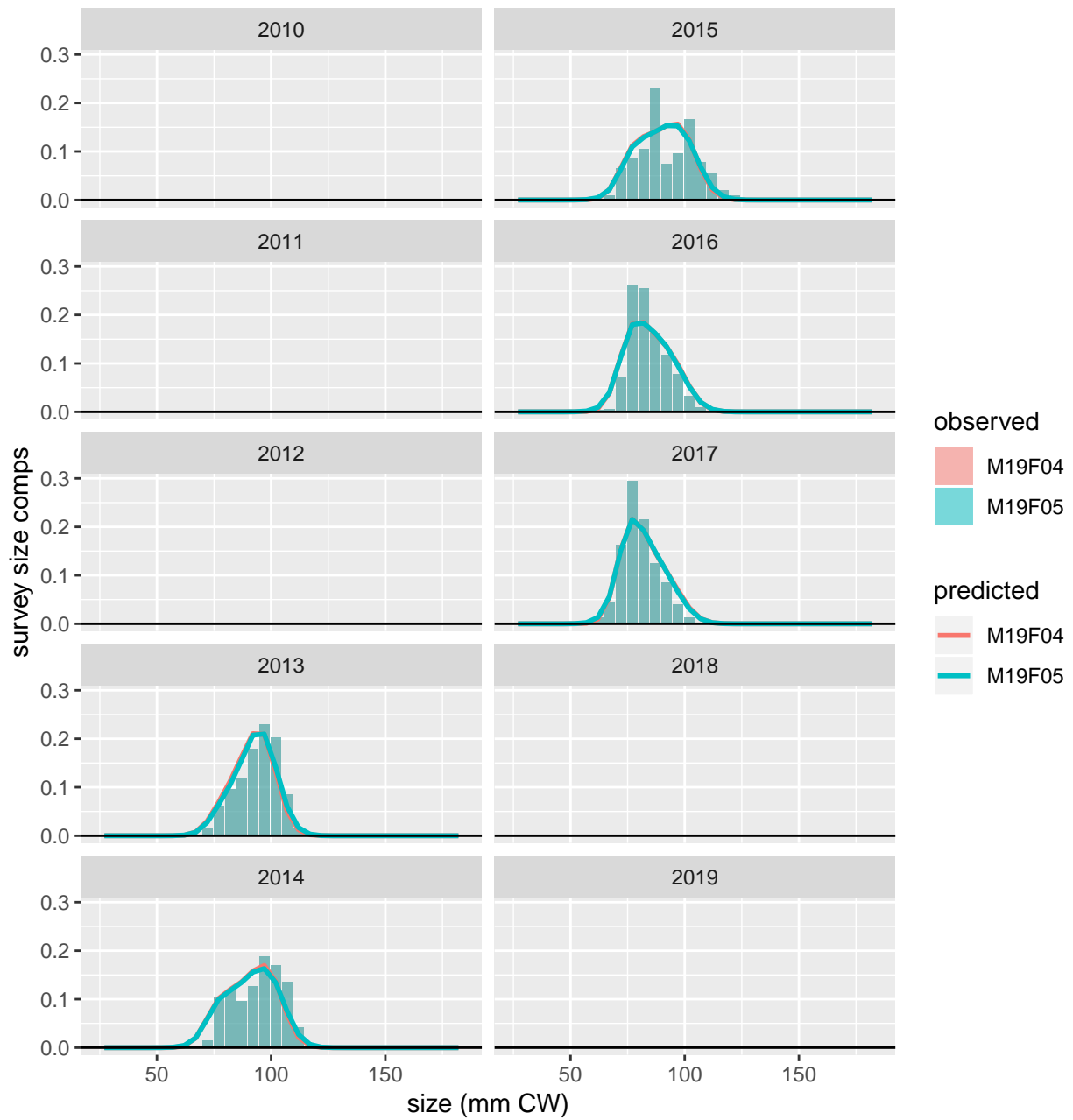


Figure 38: Comparison of observed and predicted female, mature, all shell survey size comps for SBS NMFS females. Page 1 of 1.

### SBS BSFRF males: male, all maturity, all shell

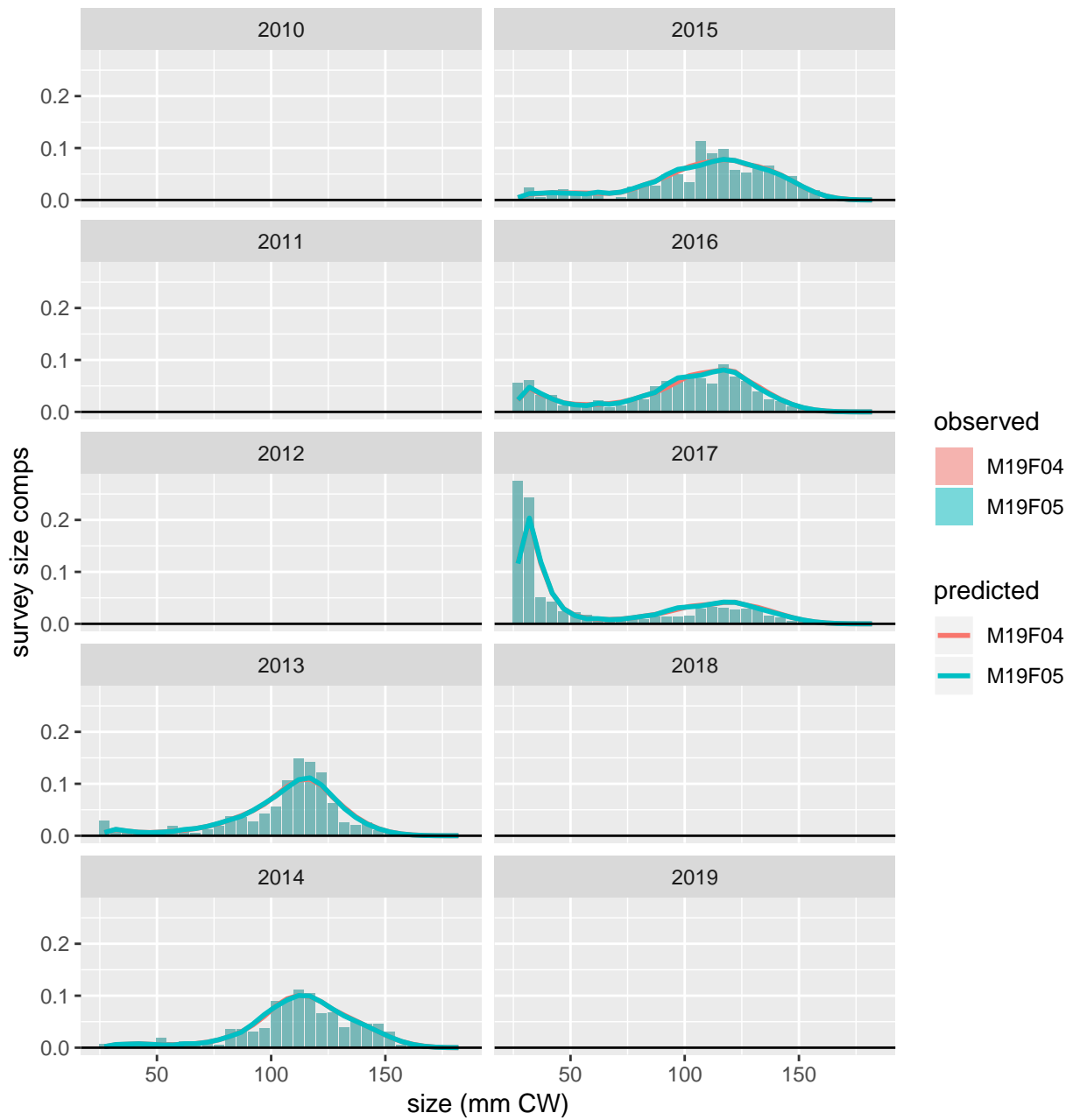


Figure 39: Comparison of observed and predicted male, all maturity, all shell survey size comps for SBS BSFRF males. Page 1 of 1.



### SBS BSFRF females: female, immature, all shell

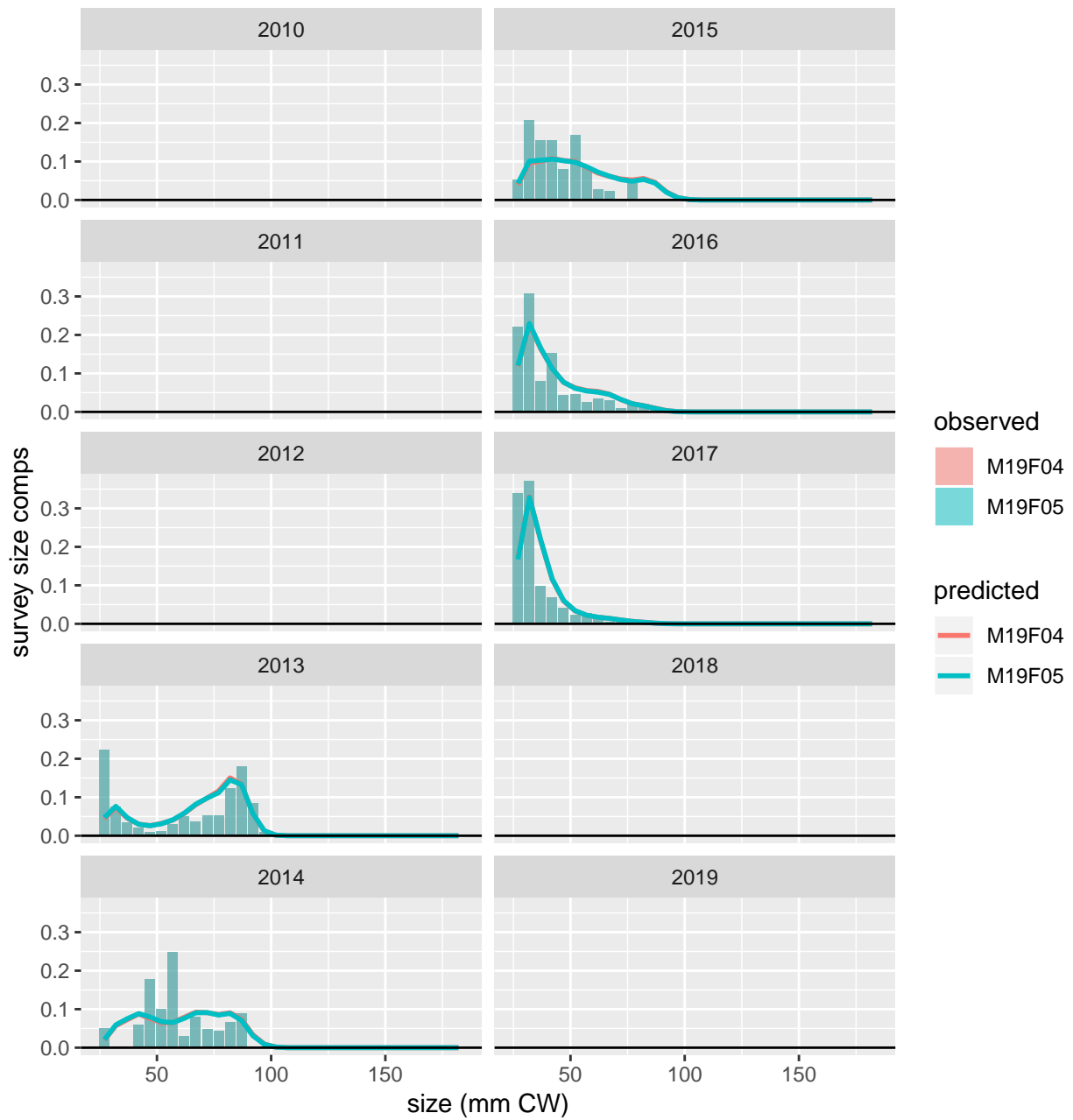


Figure 40: Comparison of observed and predicted female, immature, all shell survey size comps for SBS BSFRF females. Page 1 of 1.

### SBS BSFRF females: female, mature, all shell

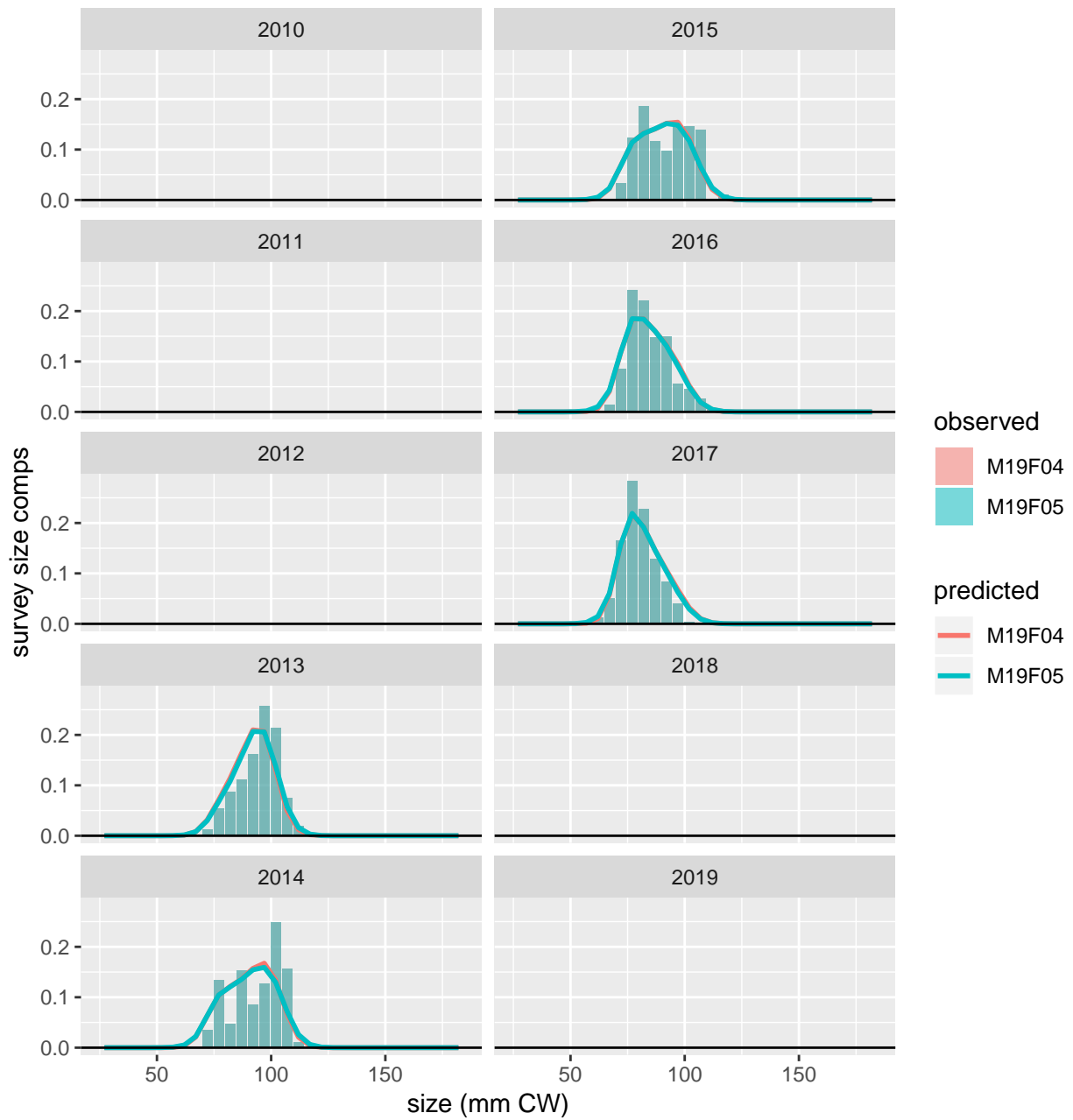


Figure 41: Comparison of observed and predicted female, mature, all shell survey size comps for SBS BSFRF females. Page 1 of 1.

# Fishery retained catch size compositions

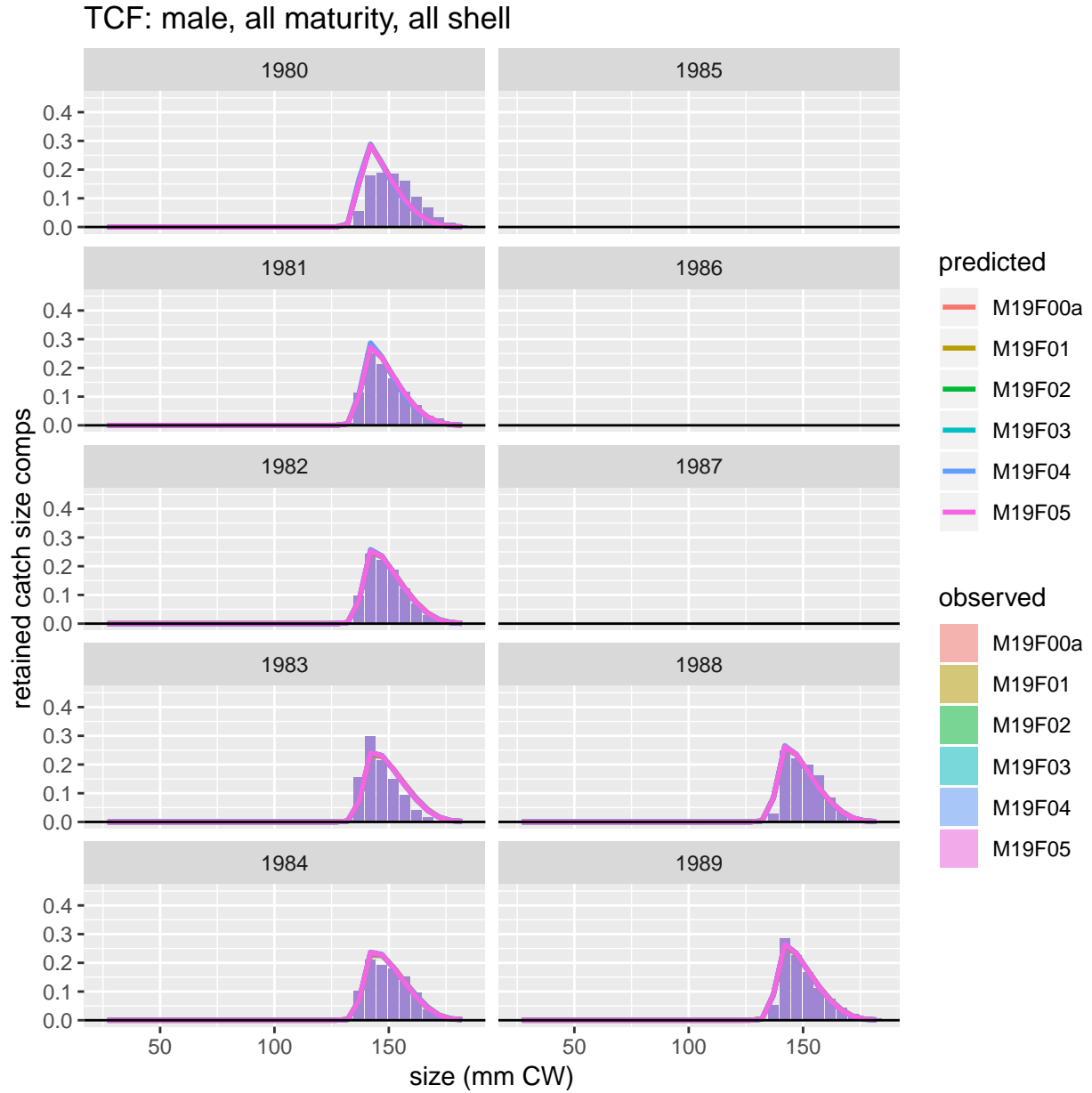


Figure 42: Comparison of observed and predicted male, all maturity, all shell retained catch size comps for TCF. Page 1 of 4.

TCF: male, all maturity, all shell

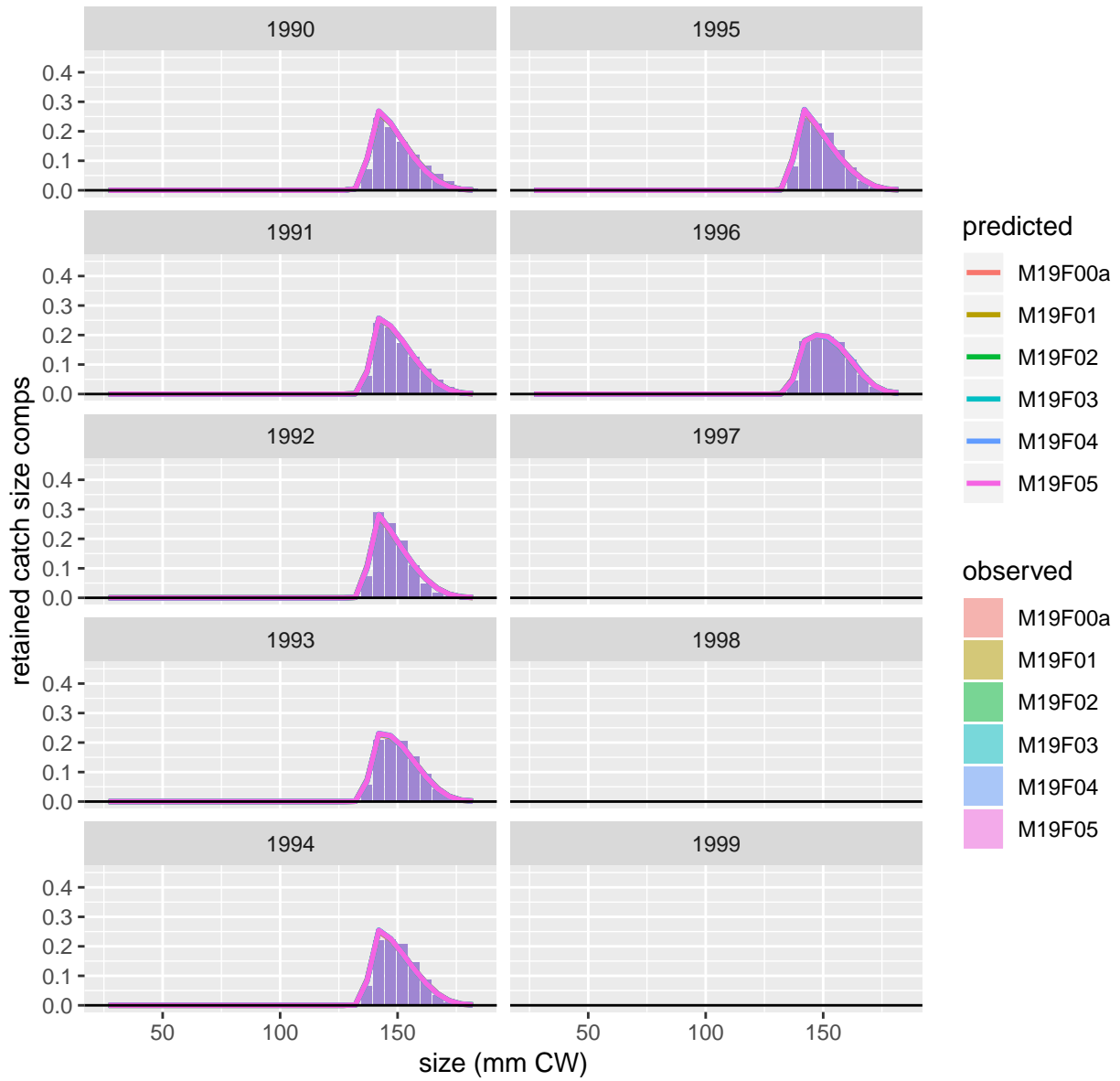


Figure 43: Comparison of observed and predicted male, all maturity, all shell retained catch size comps for TCF. Page 2 of 4.

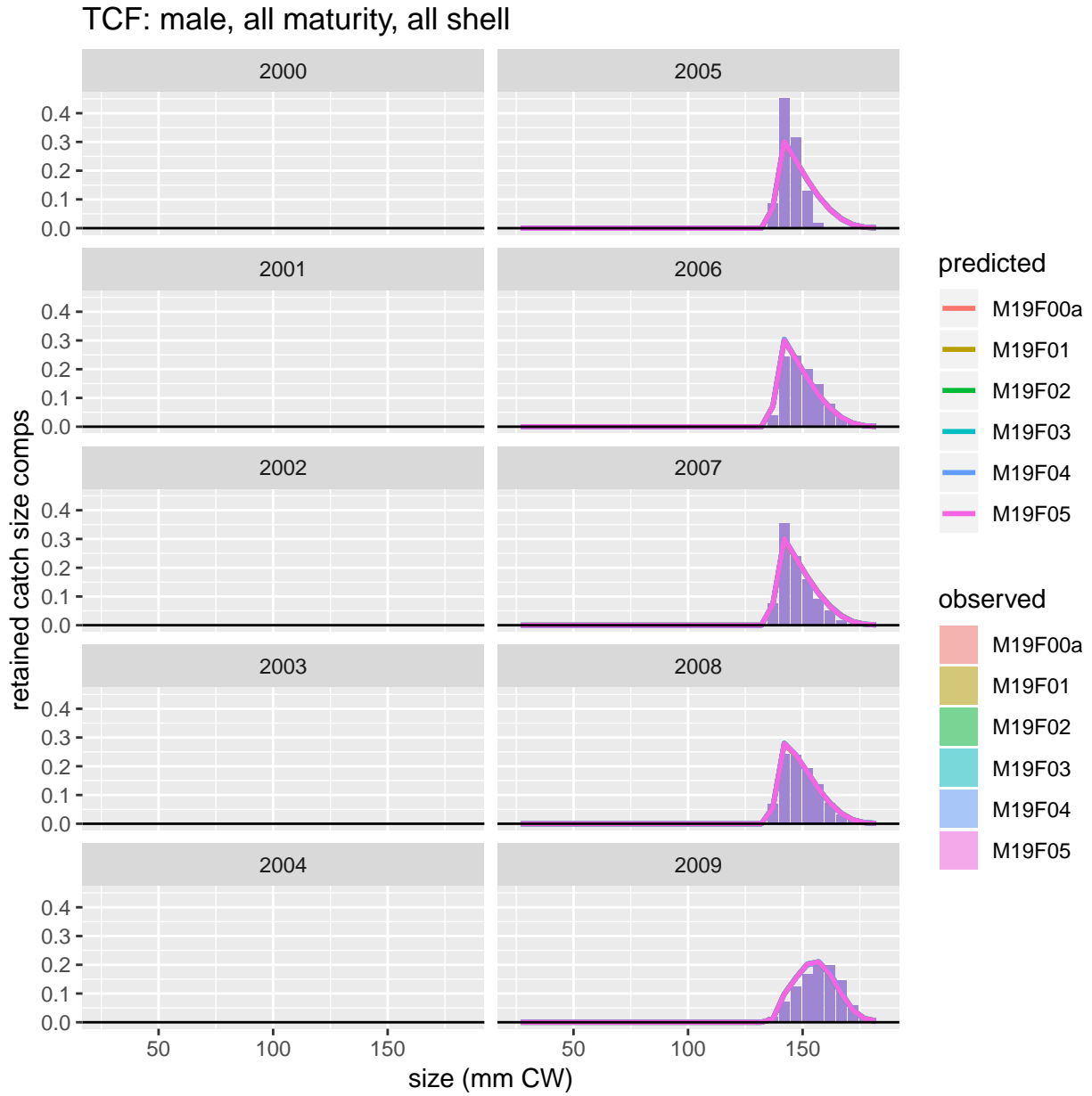


Figure 44: Comparison of observed and predicted male, all maturity, all shell retained catch size comps for TCF. Page 3 of 4.

TCF: male, all maturity, all shell

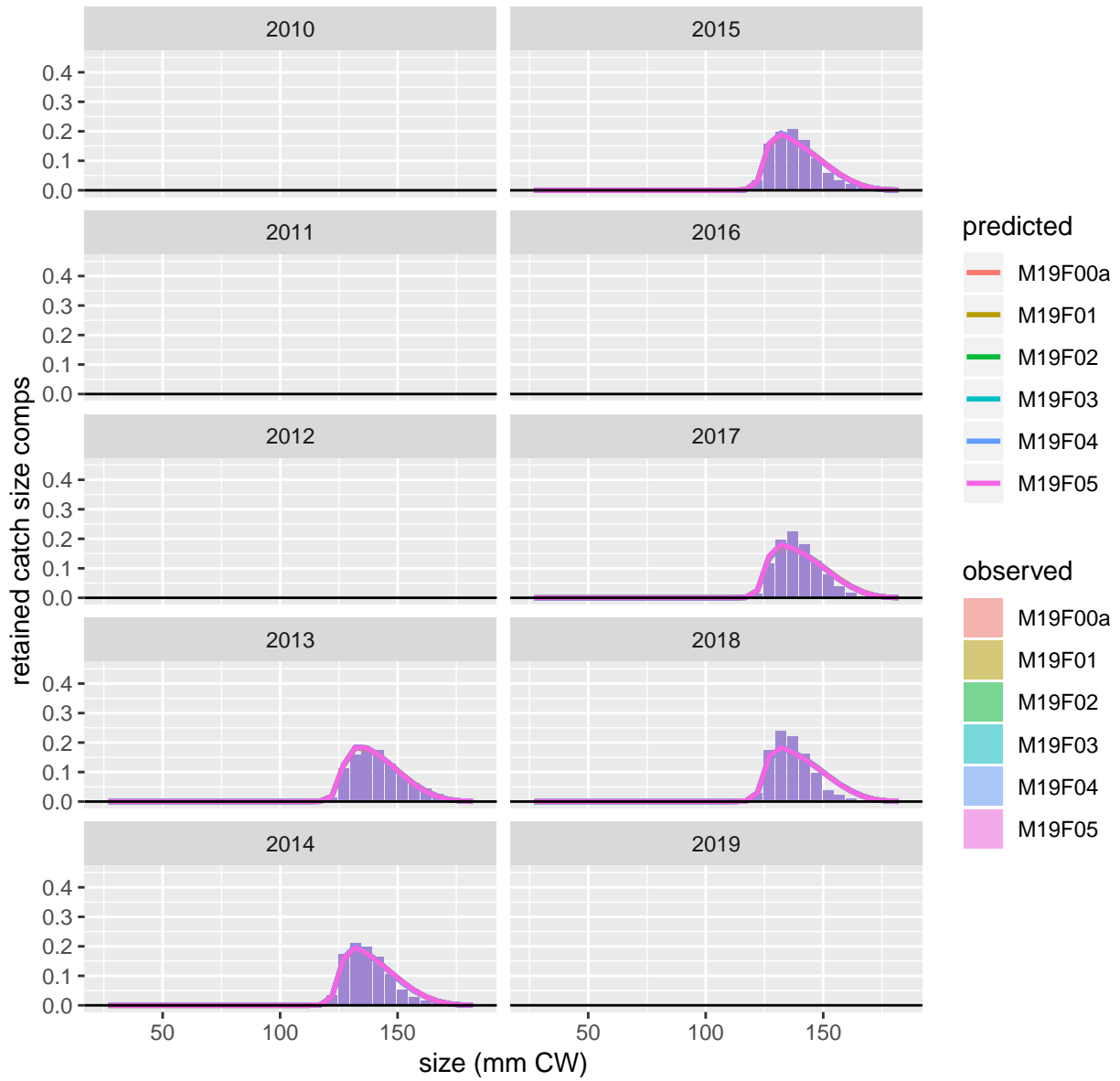


Figure 45: Comparison of observed and predicted male, all maturity, all shell retained catch size comps for TCF. Page 4 of 4.

# Fishery total catch size compositions

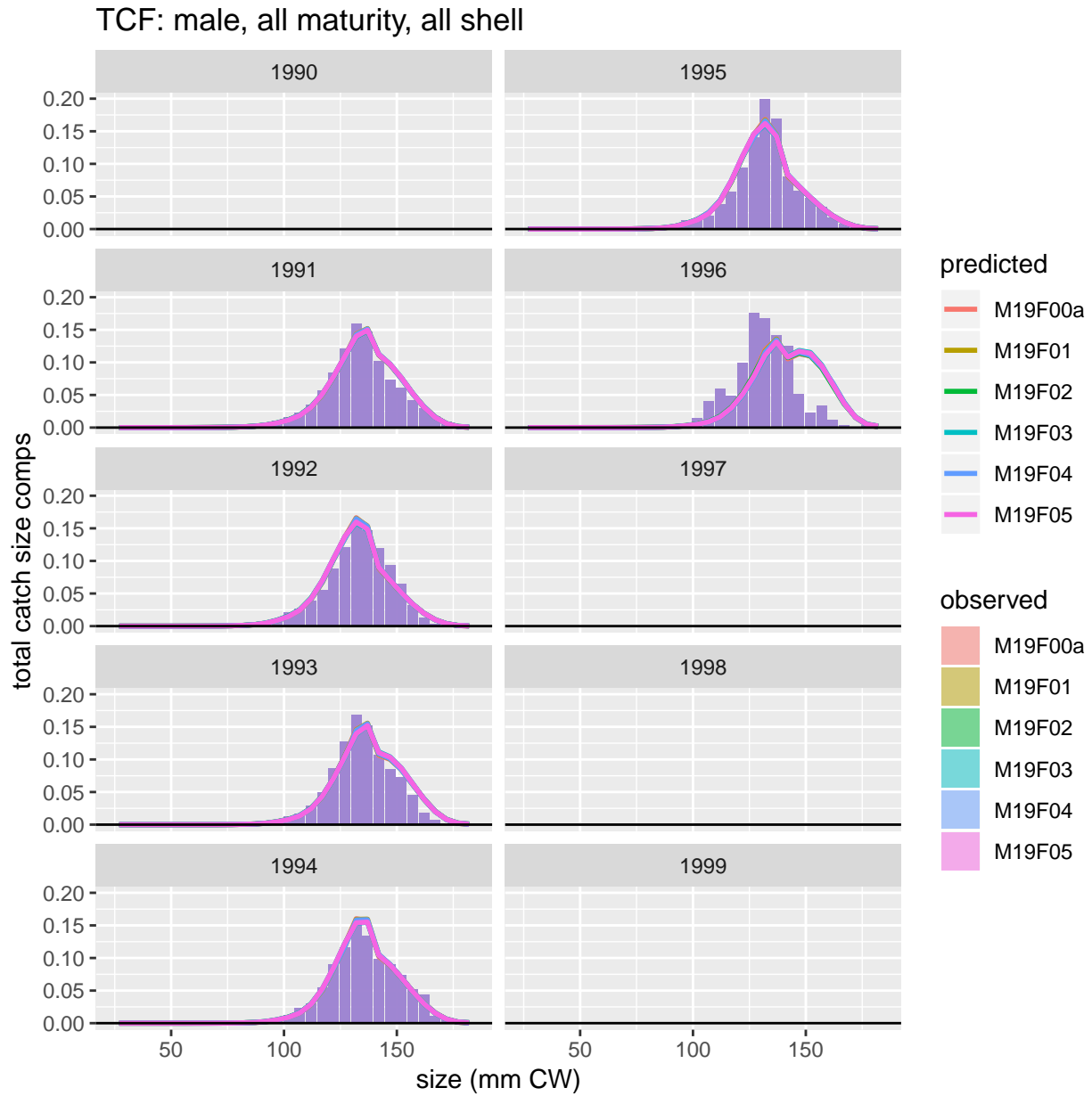


Figure 46: Comparison of observed and predicted male, all maturity, all shell total catch size comps for TCF. Page 1 of 3.

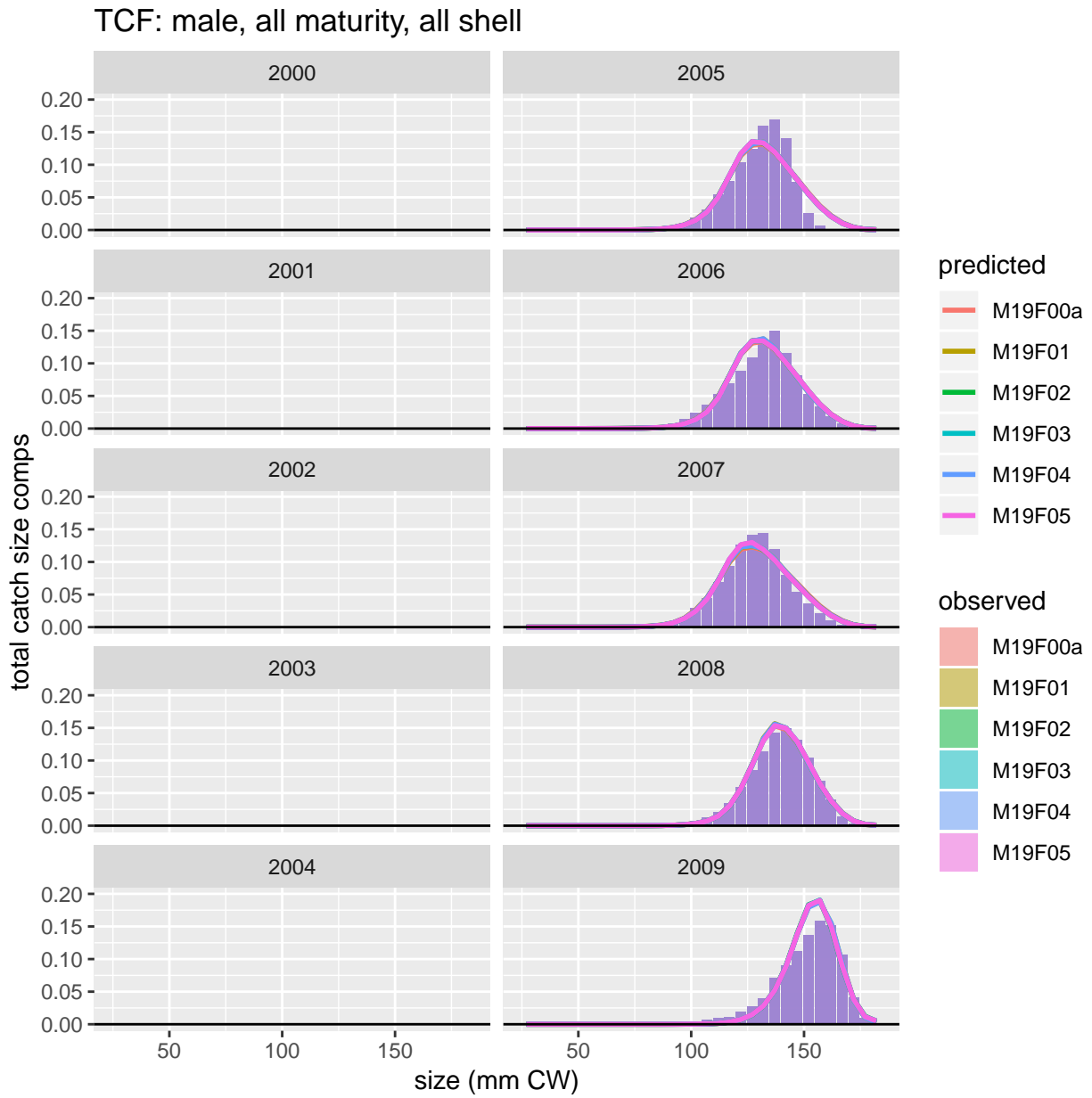


Figure 47: Comparison of observed and predicted male, all maturity, all shell total catch size comps for TCF. Page 2 of 3.



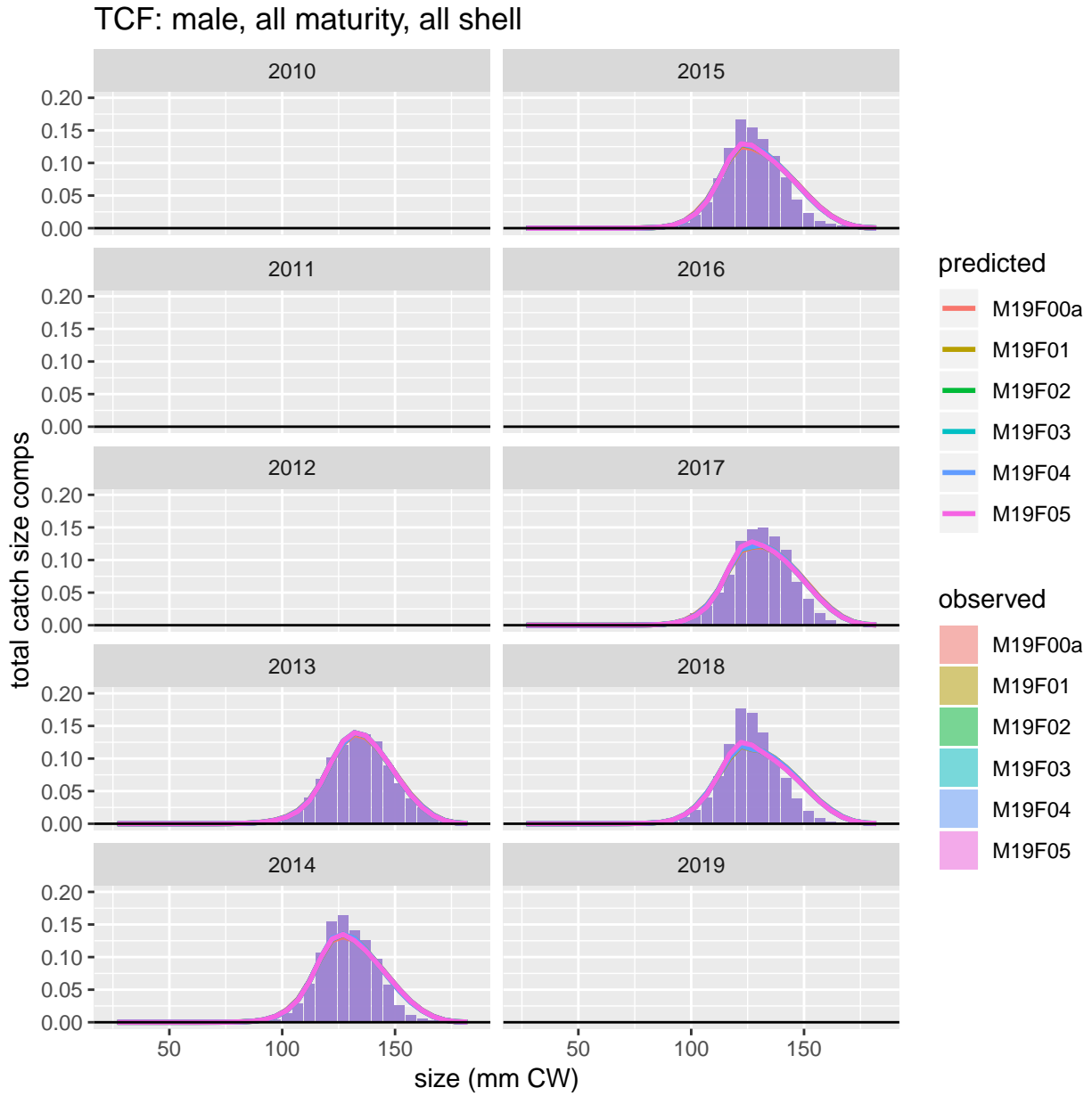


Figure 48: Comparison of observed and predicted male, all maturity, all shell total catch size comps for TCF. Page 3 of 3.

TCF: female, all maturity, all shell

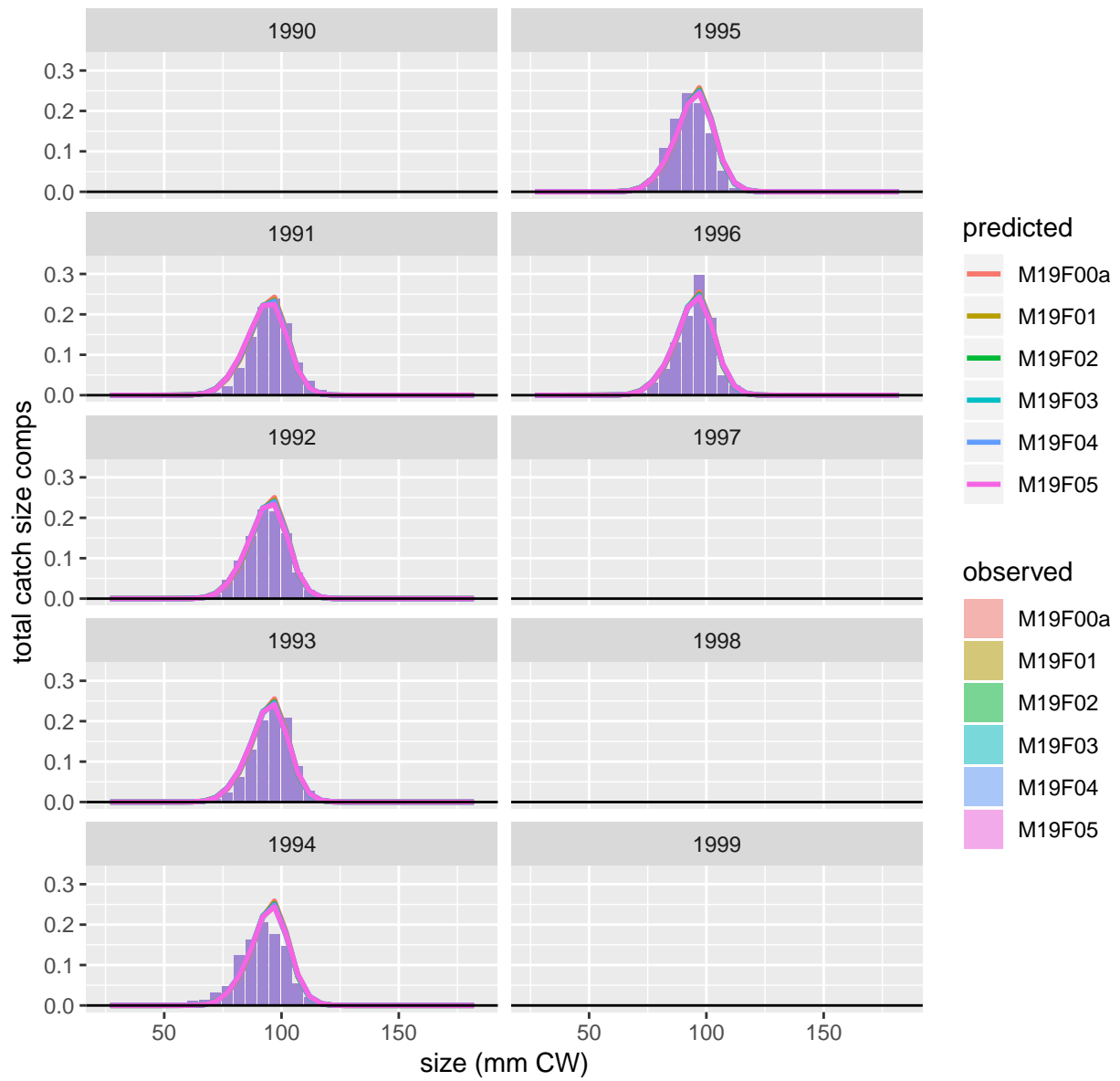


Figure 49: Comparison of observed and predicted female, all maturity, all shell total catch size comps for TCF. Page 1 of 3.

TCF: female, all maturity, all shell

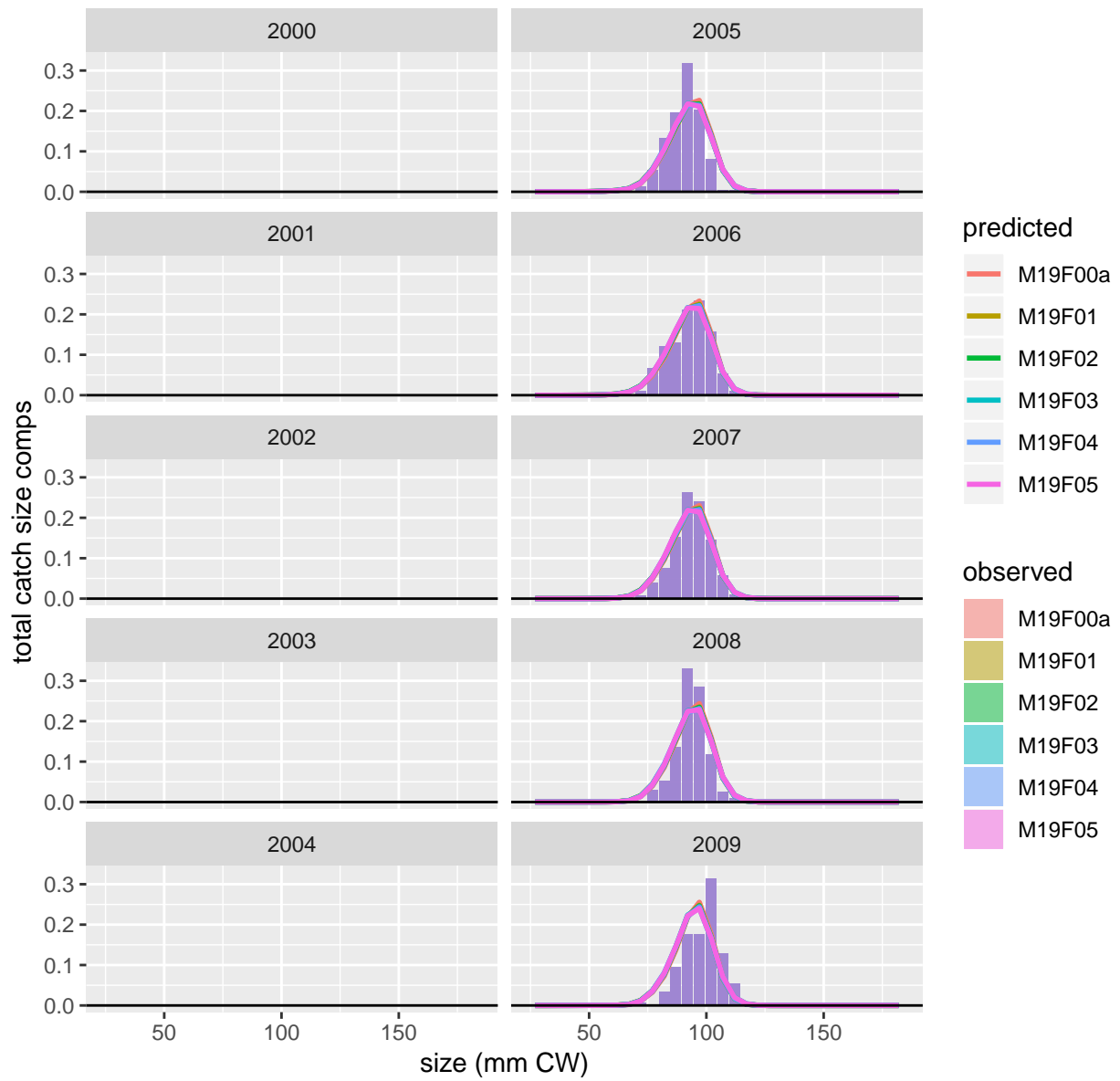


Figure 50: Comparison of observed and predicted female, all maturity, all shell total catch size comps for TCF. Page 2 of 3.

TCF: female, all maturity, all shell

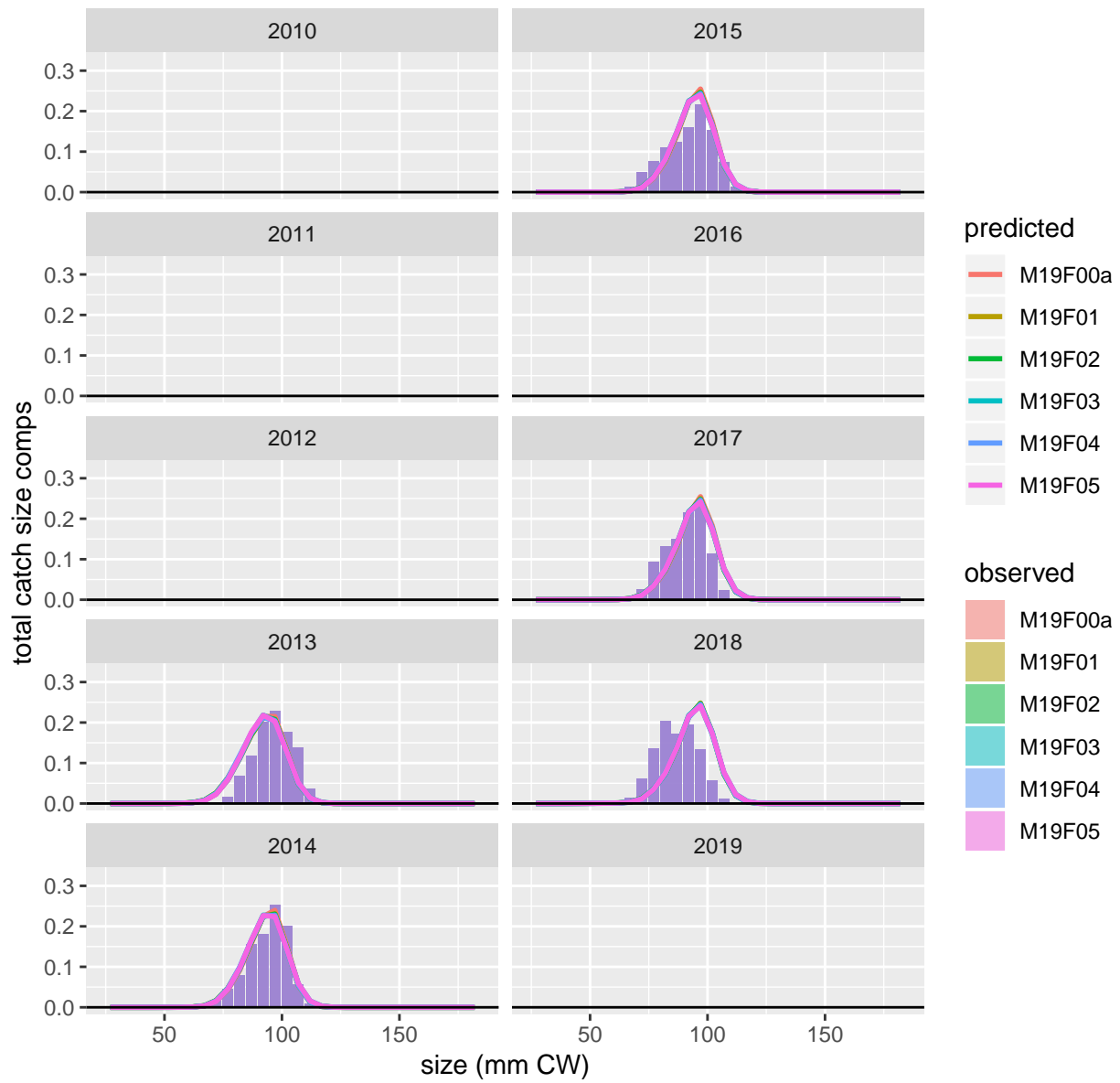


Figure 51: Comparison of observed and predicted female, all maturity, all shell total catch size comps for TCF. Page 3 of 3.

SCF: male, all maturity, all shell

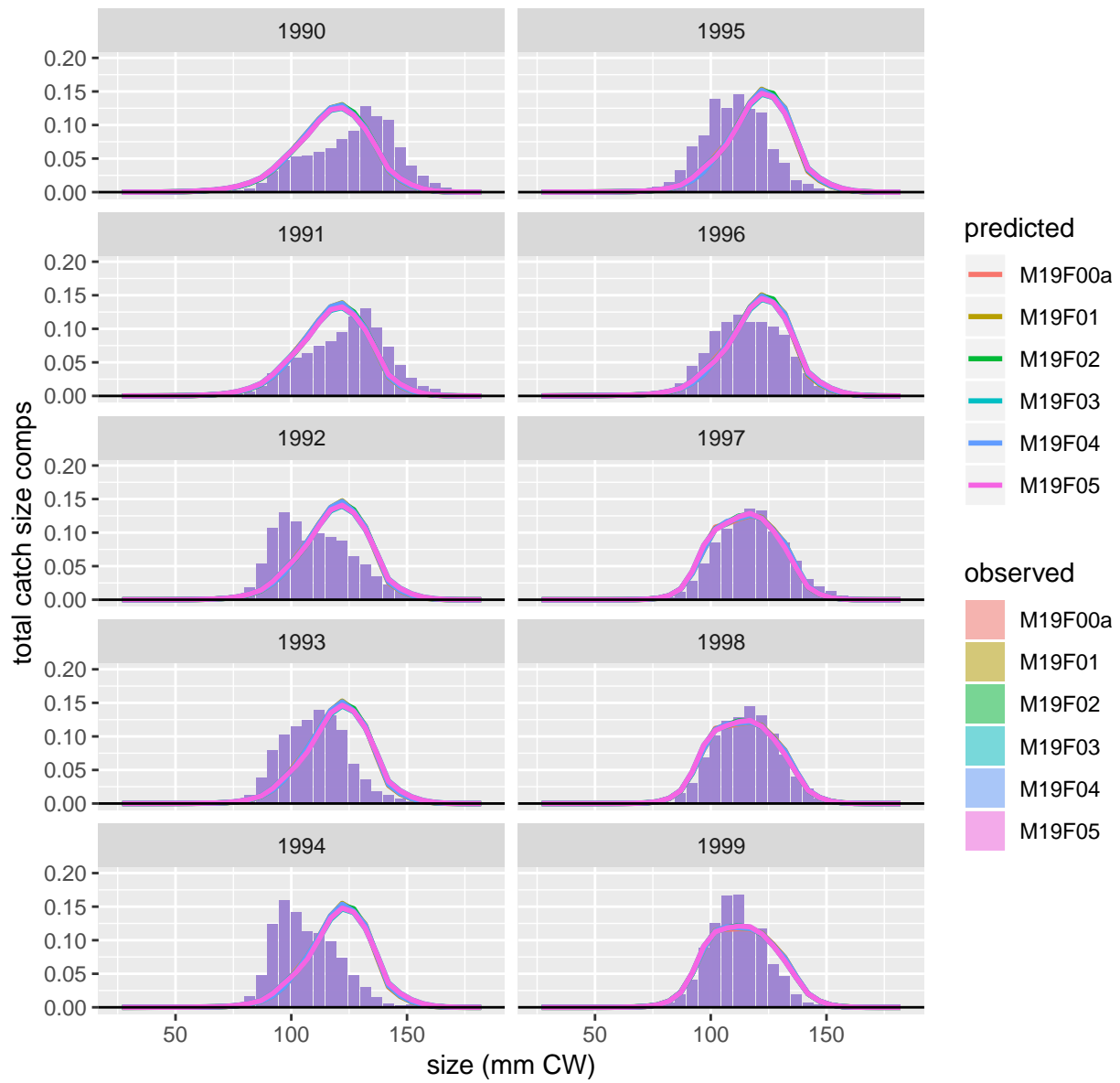


Figure 52: Comparison of observed and predicted male, all maturity, all shell total catch size comps for SCF. Page 1 of 3.

SCF: male, all maturity, all shell

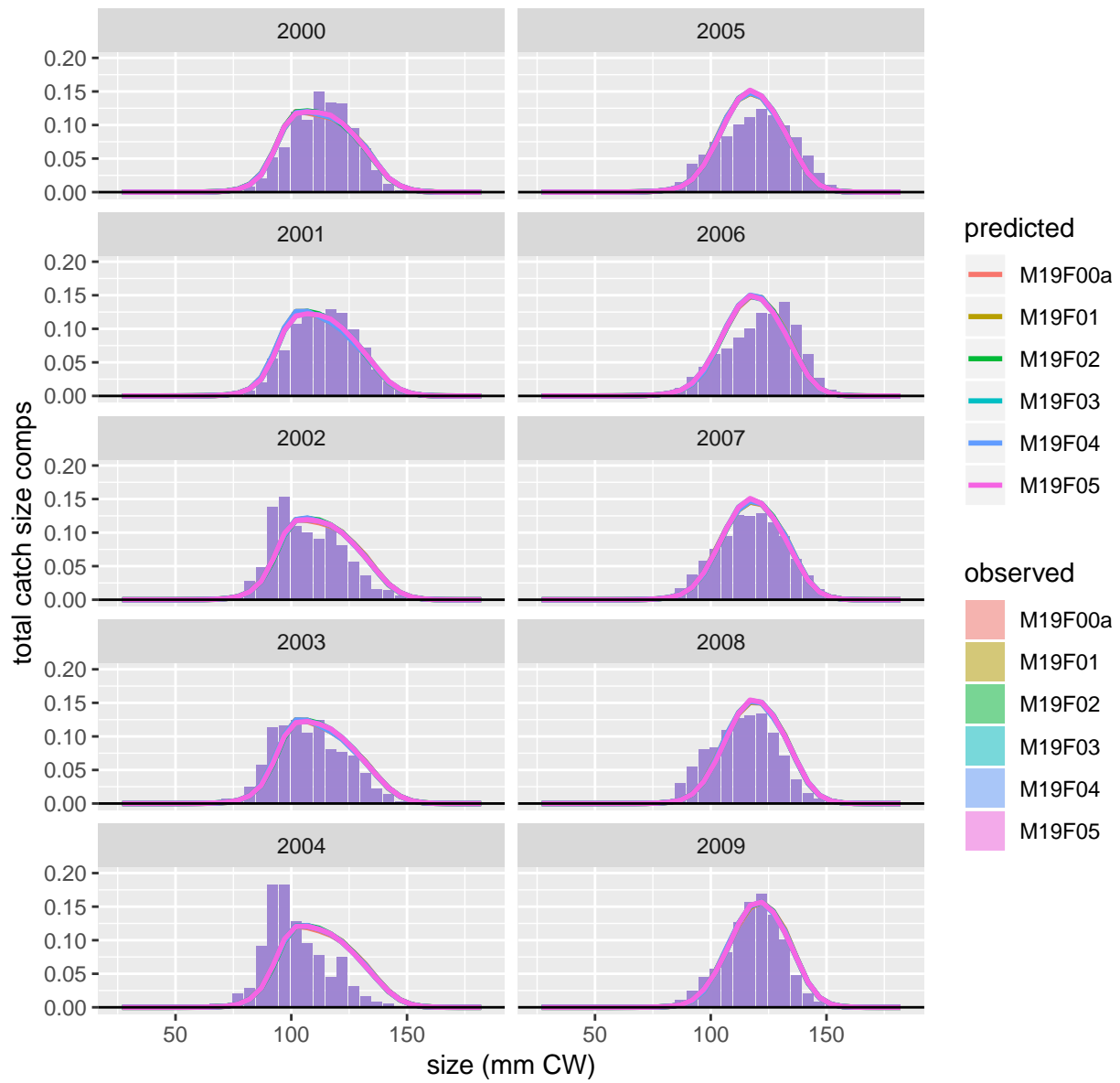


Figure 53: Comparison of observed and predicted male, all maturity, all shell total catch size comps for SCF. Page 2 of 3.

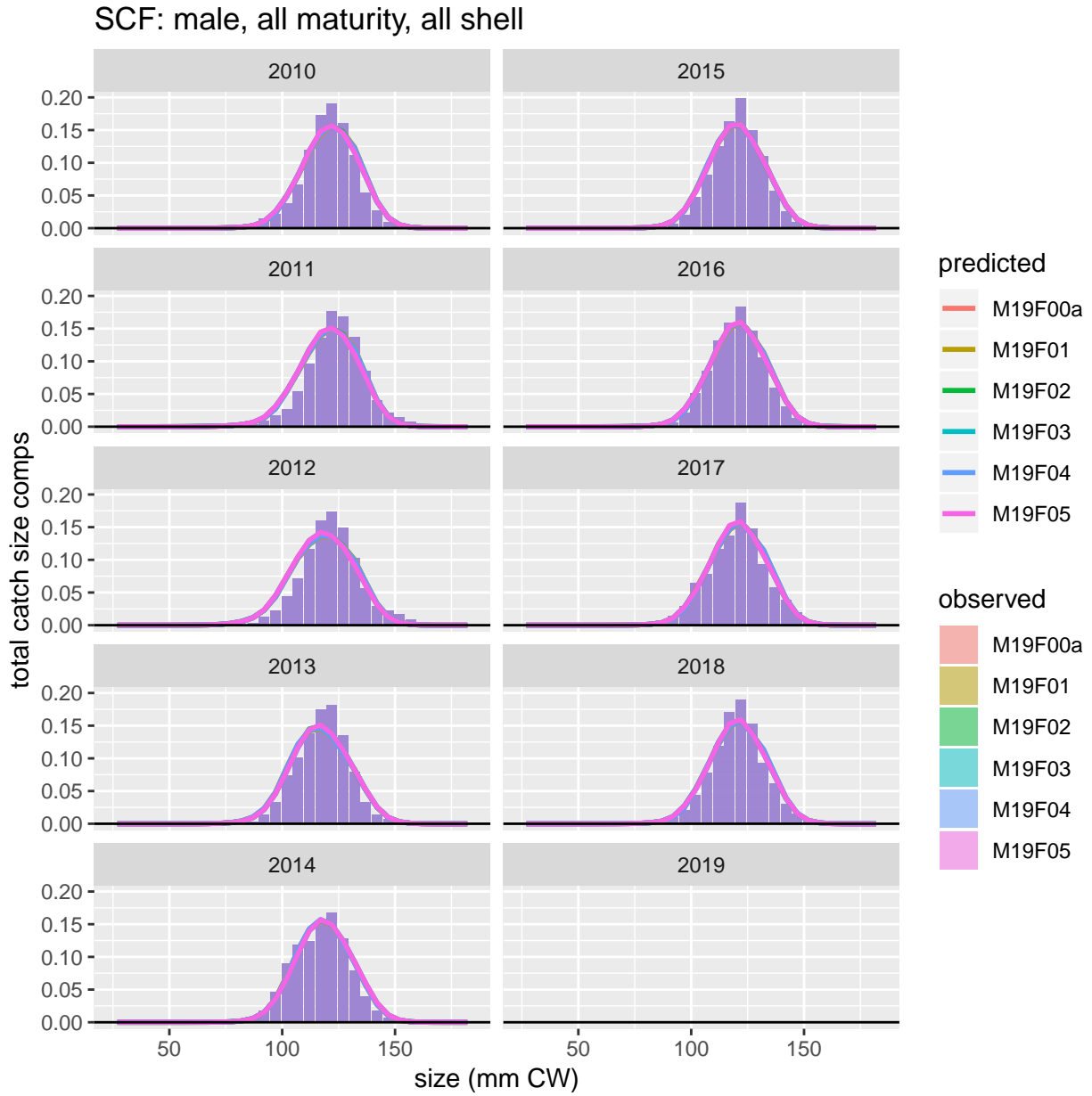


Figure 54: Comparison of observed and predicted male, all maturity, all shell total catch size comps for SCF. Page 3 of 3.

SCF: female, all maturity, all shell

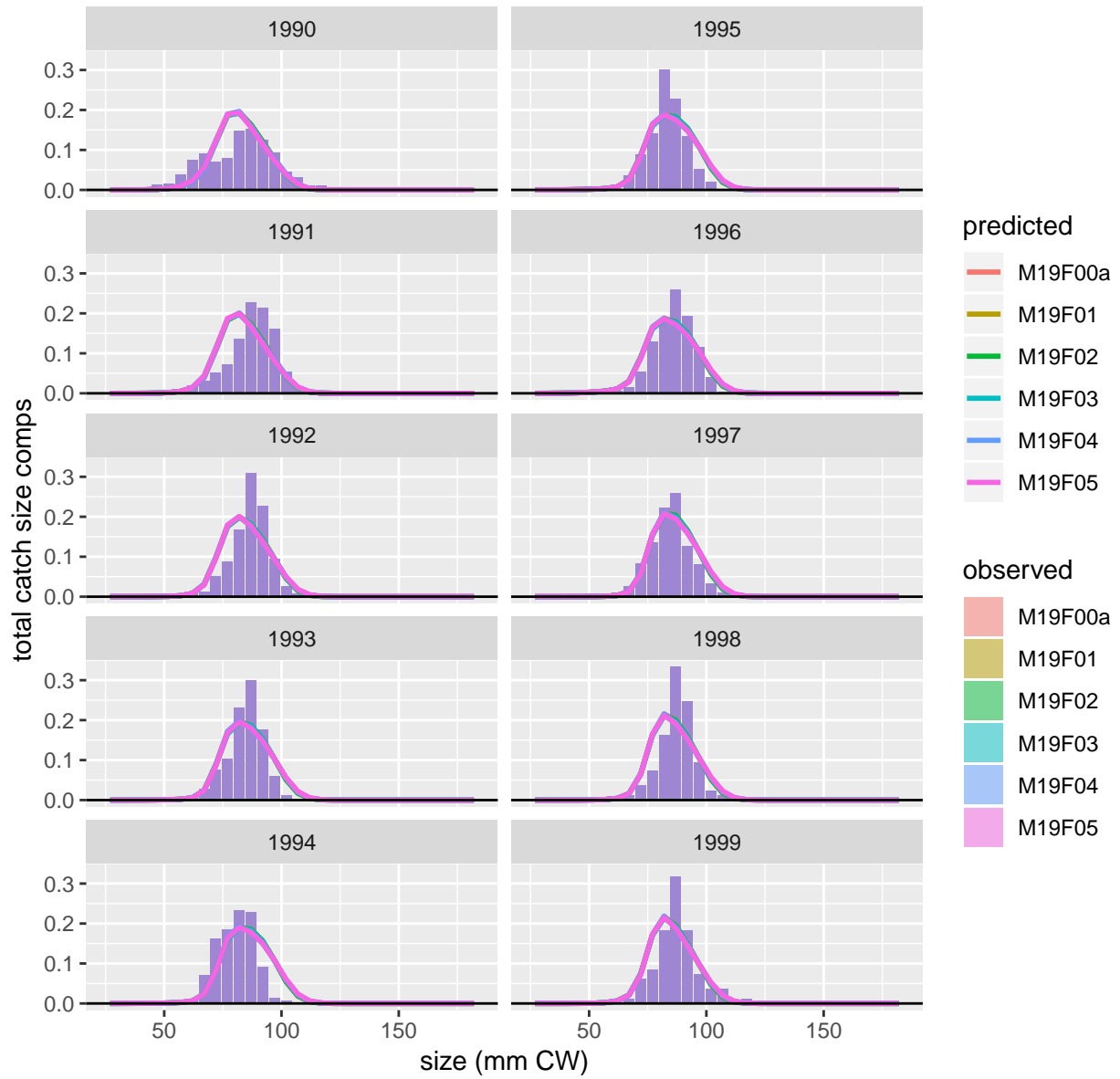


Figure 55: Comparison of observed and predicted female, all maturity, all shell total catch size comps for SCF. Page 1 of 3.



SCF: female, all maturity, all shell

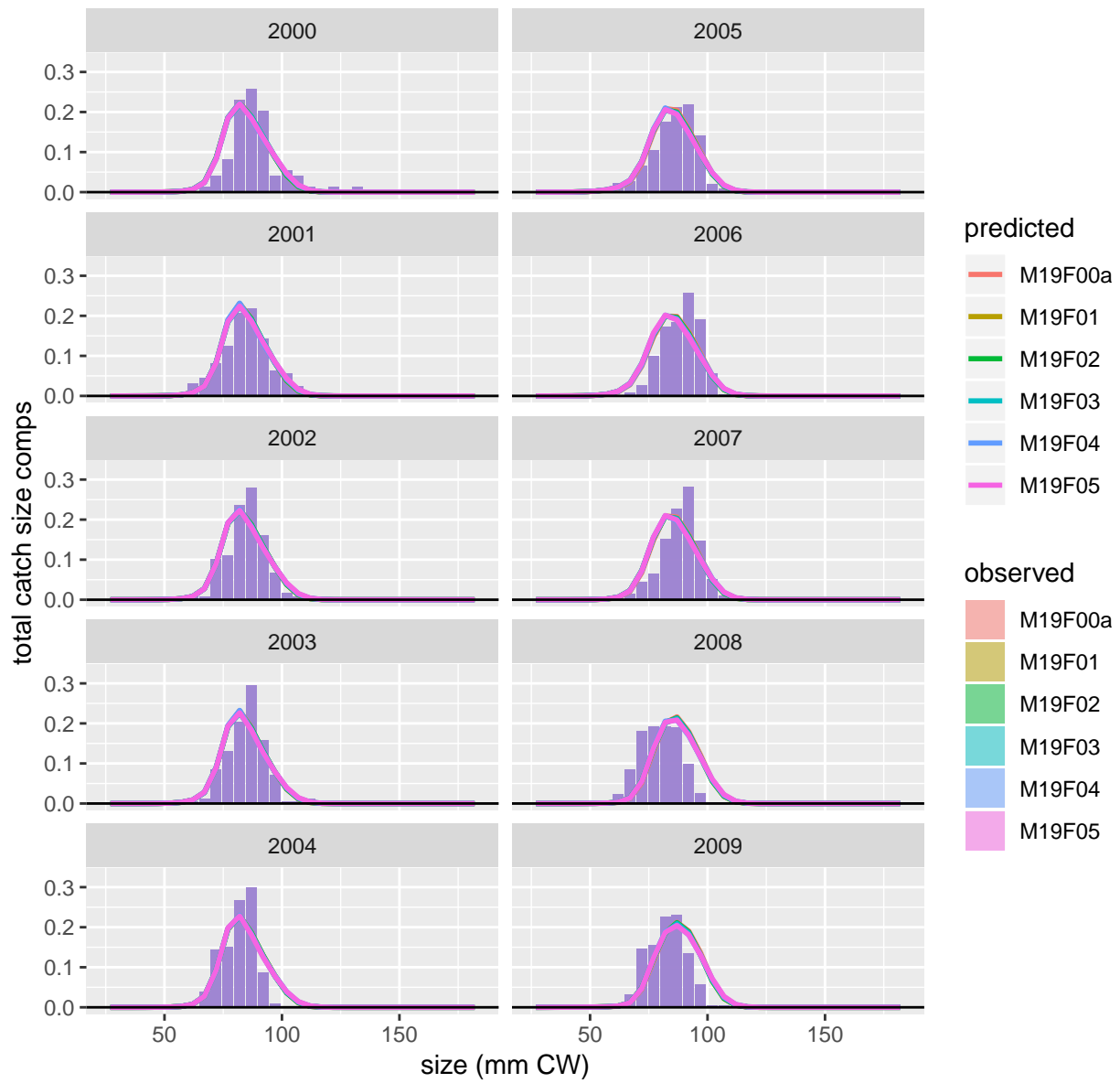


Figure 56: Comparison of observed and predicted female, all maturity, all shell total catch size comps for SCF. Page 2 of 3.

SCF: female, all maturity, all shell

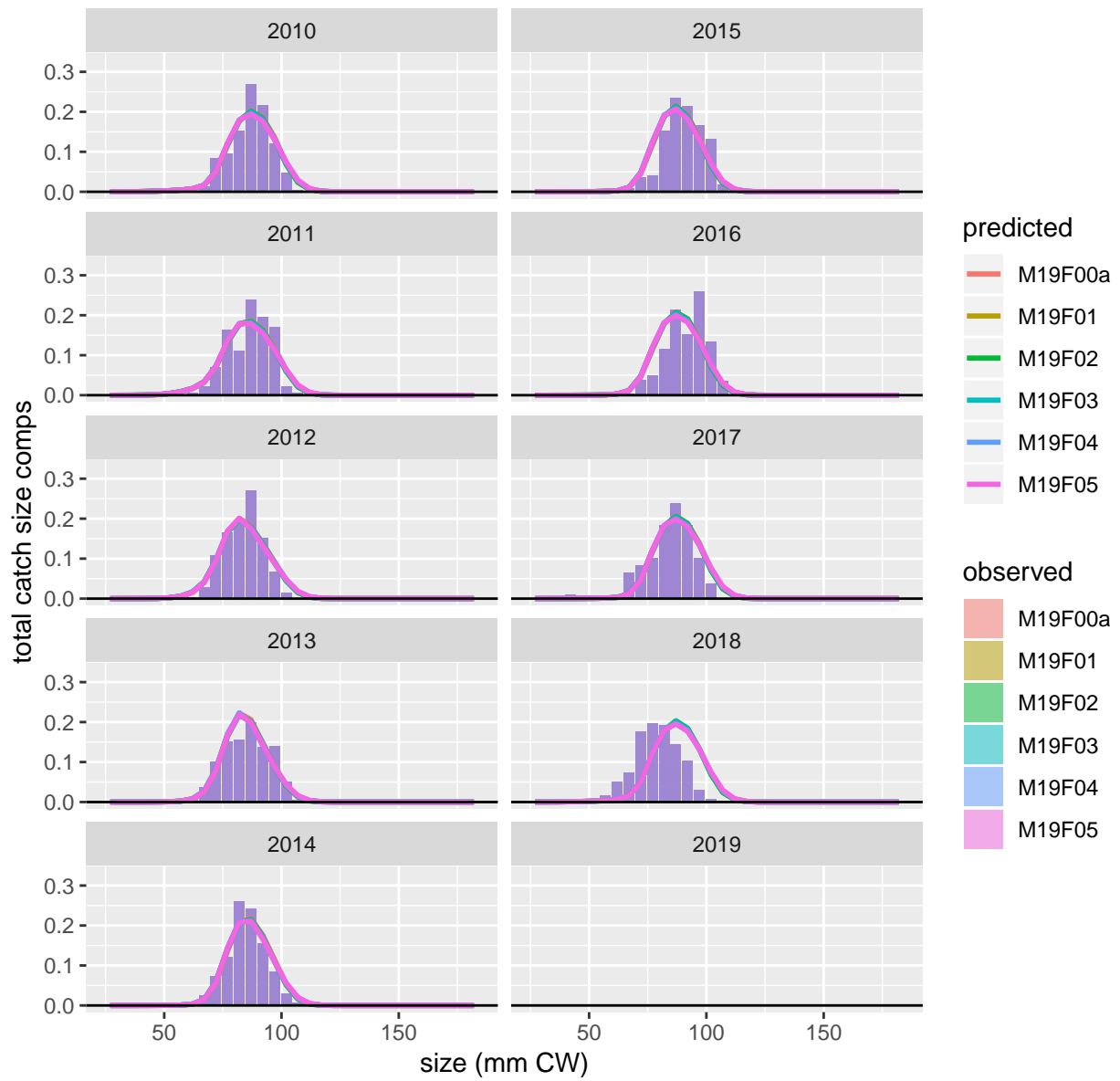


Figure 57: Comparison of observed and predicted female, all maturity, all shell total catch size comps for SCF. Page 3 of 3.

GTF: male, all maturity, all shell

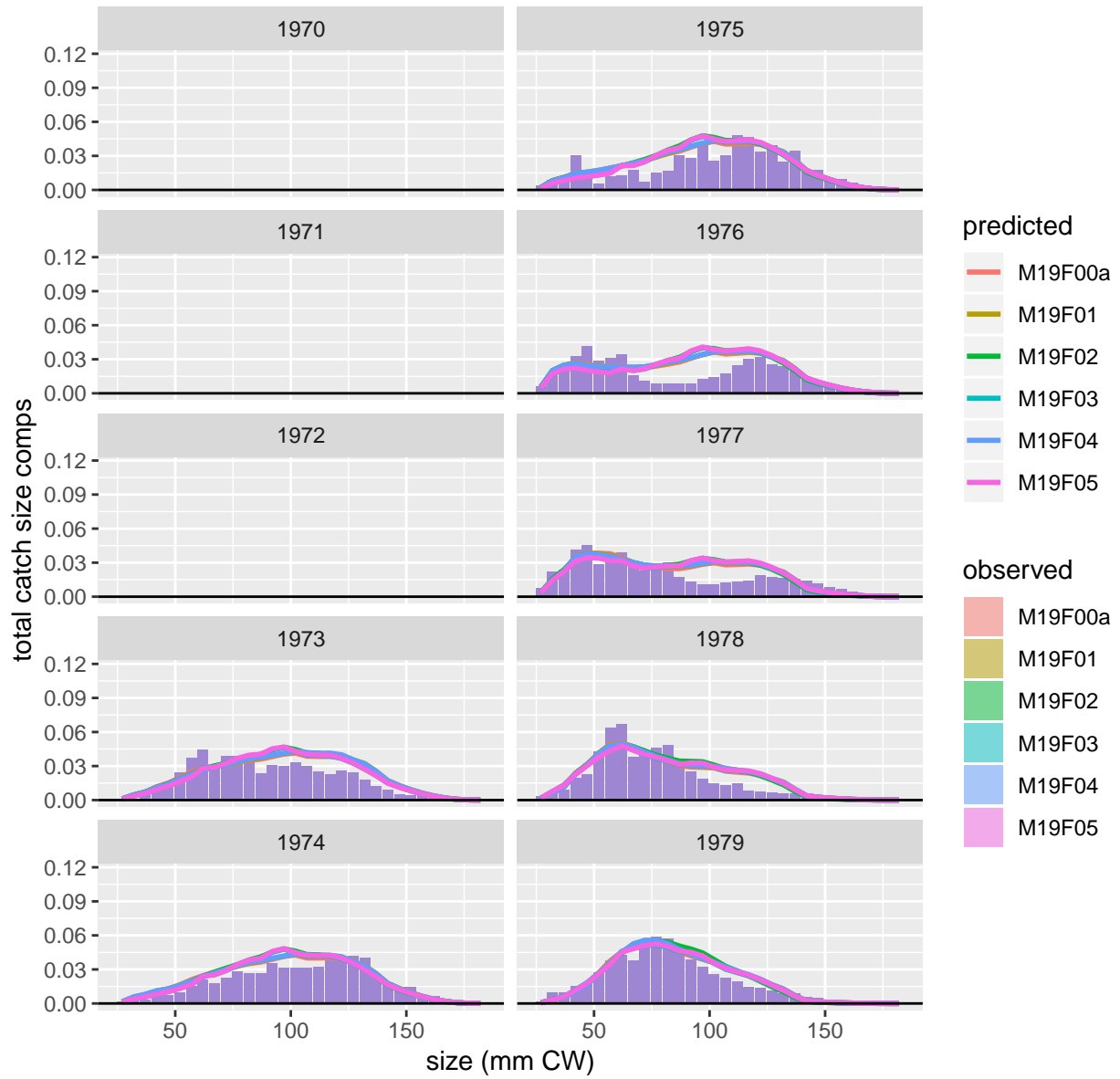


Figure 58: Comparison of observed and predicted male, all maturity, all shell total catch size comps for GTF. Page 1 of 5.

GTF: male, all maturity, all shell

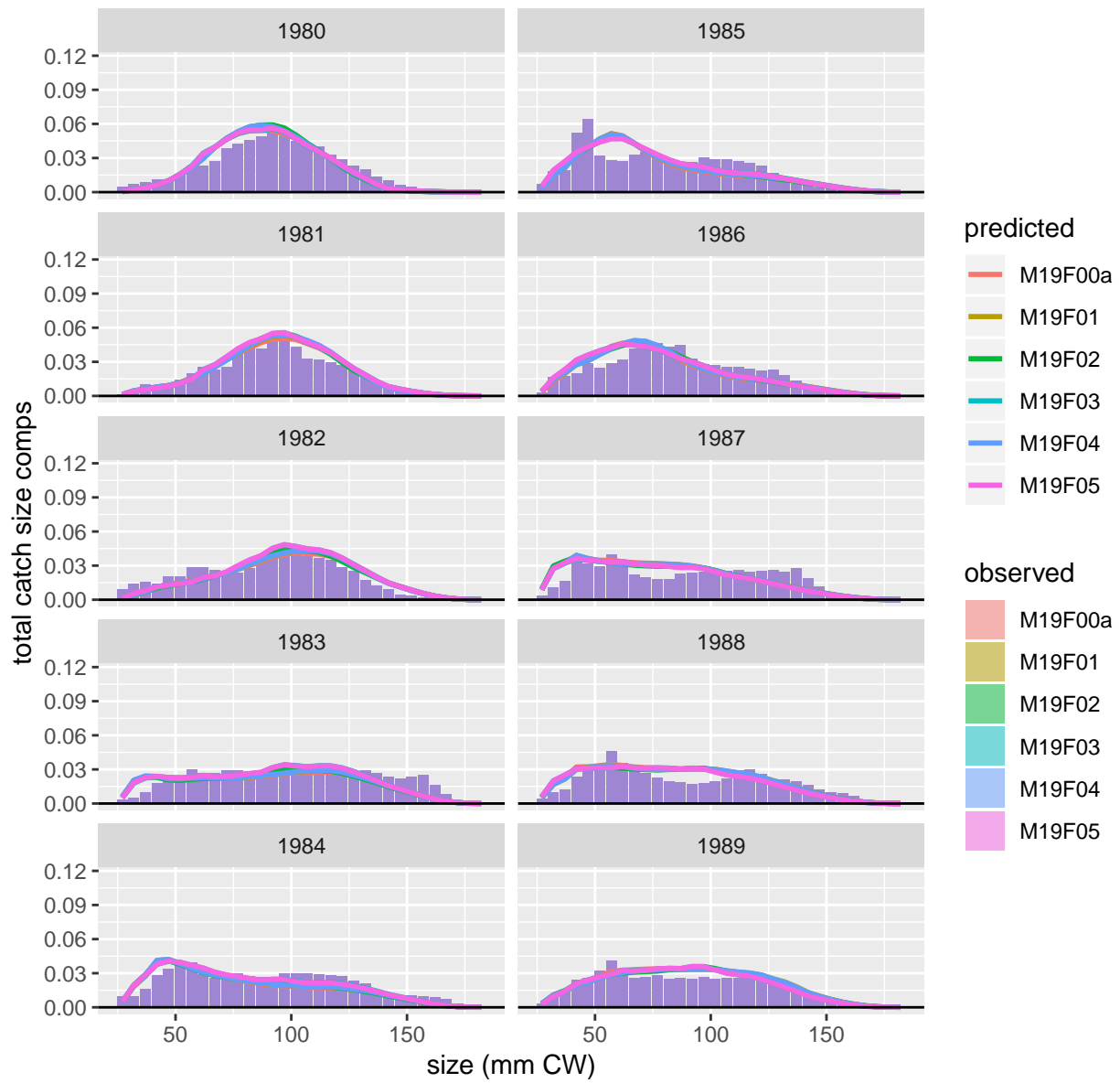


Figure 59: Comparison of observed and predicted male, all maturity, all shell total catch size comps for GTF. Page 2 of 5.

GTF: male, all maturity, all shell

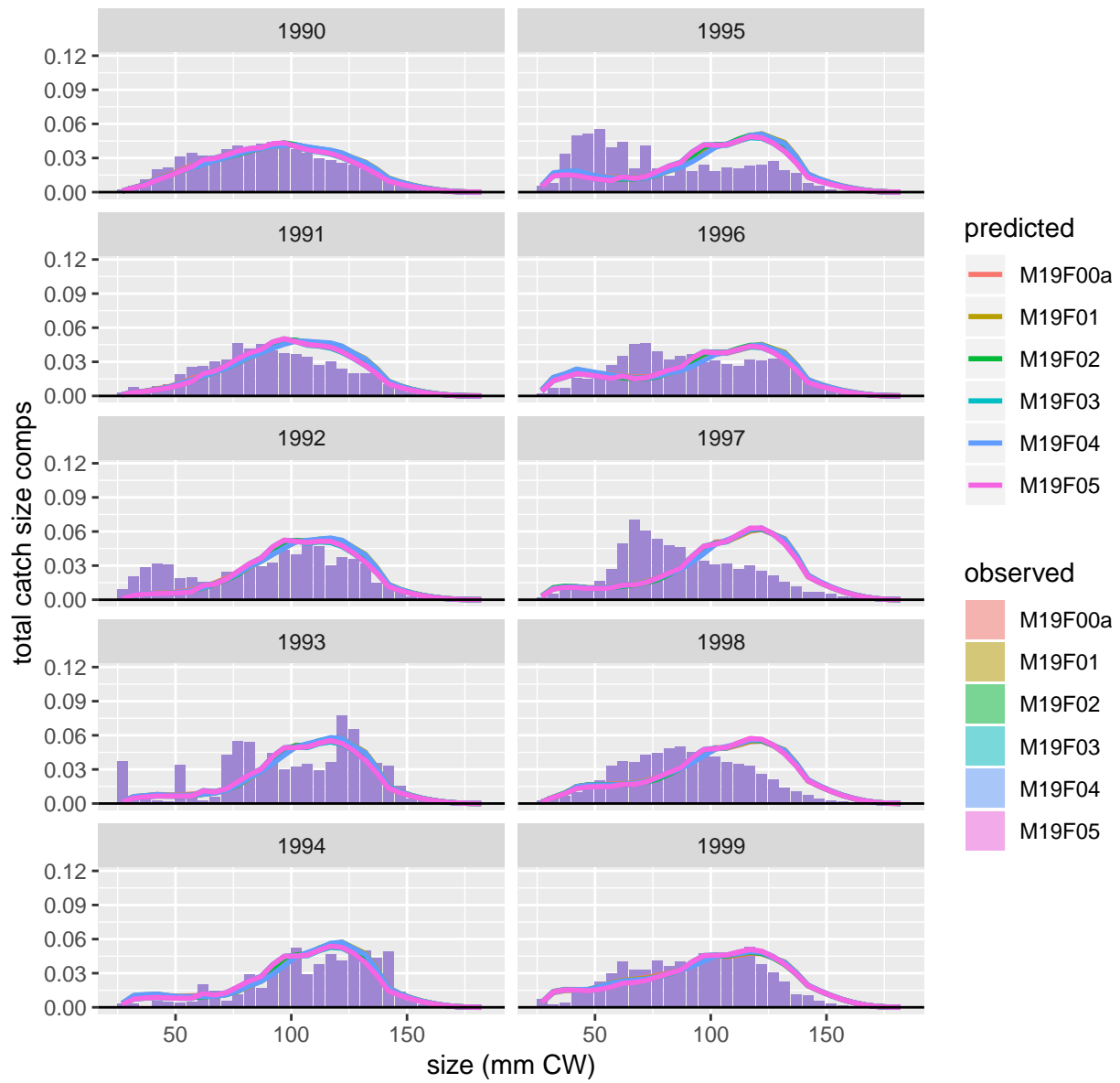


Figure 60: Comparison of observed and predicted male, all maturity, all shell total catch size comps for GTF. Page 3 of 5.

GTF: male, all maturity, all shell

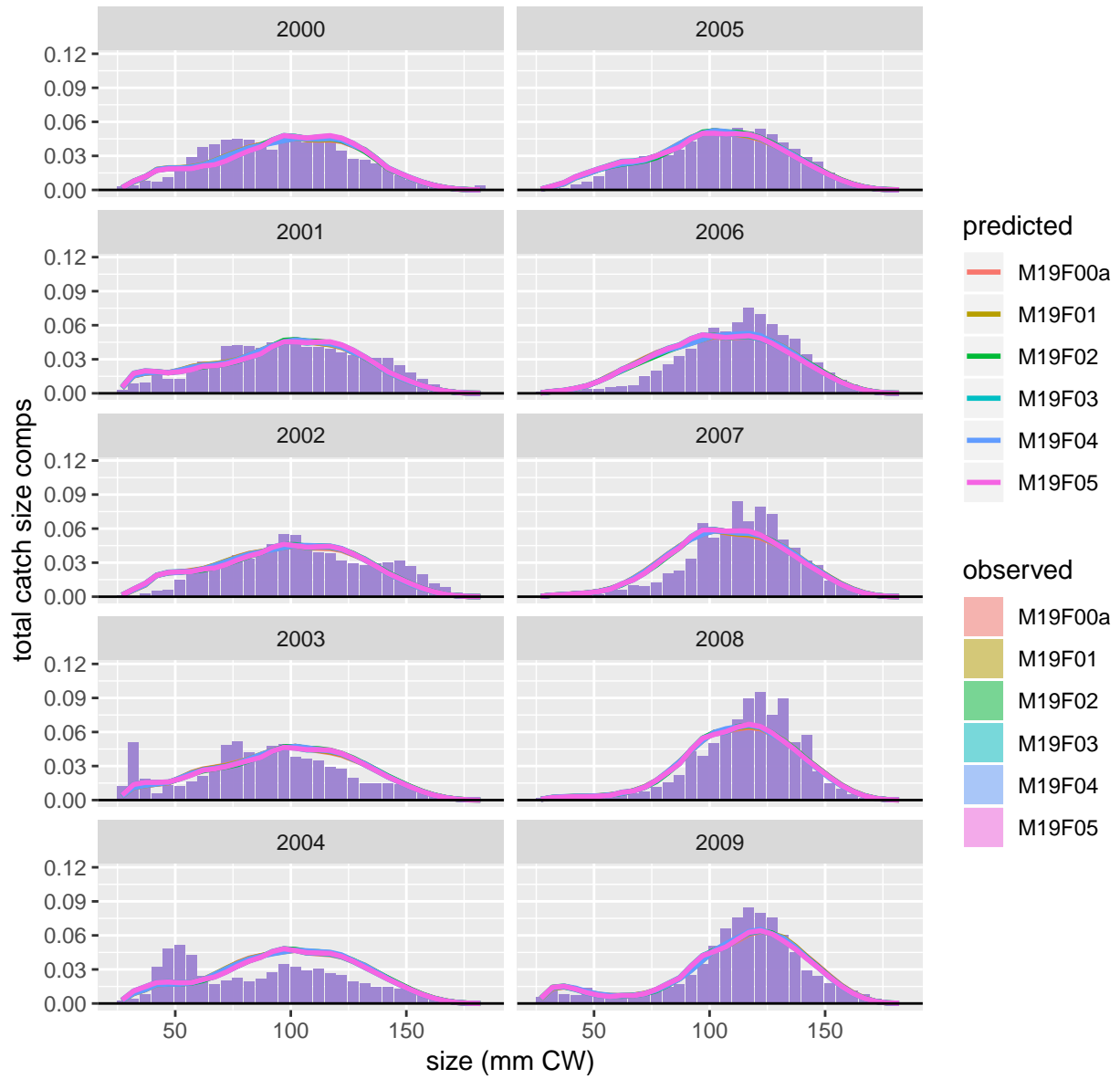


Figure 61: Comparison of observed and predicted male, all maturity, all shell total catch size comps for GTF. Page 4 of 5.

GTF: male, all maturity, all shell

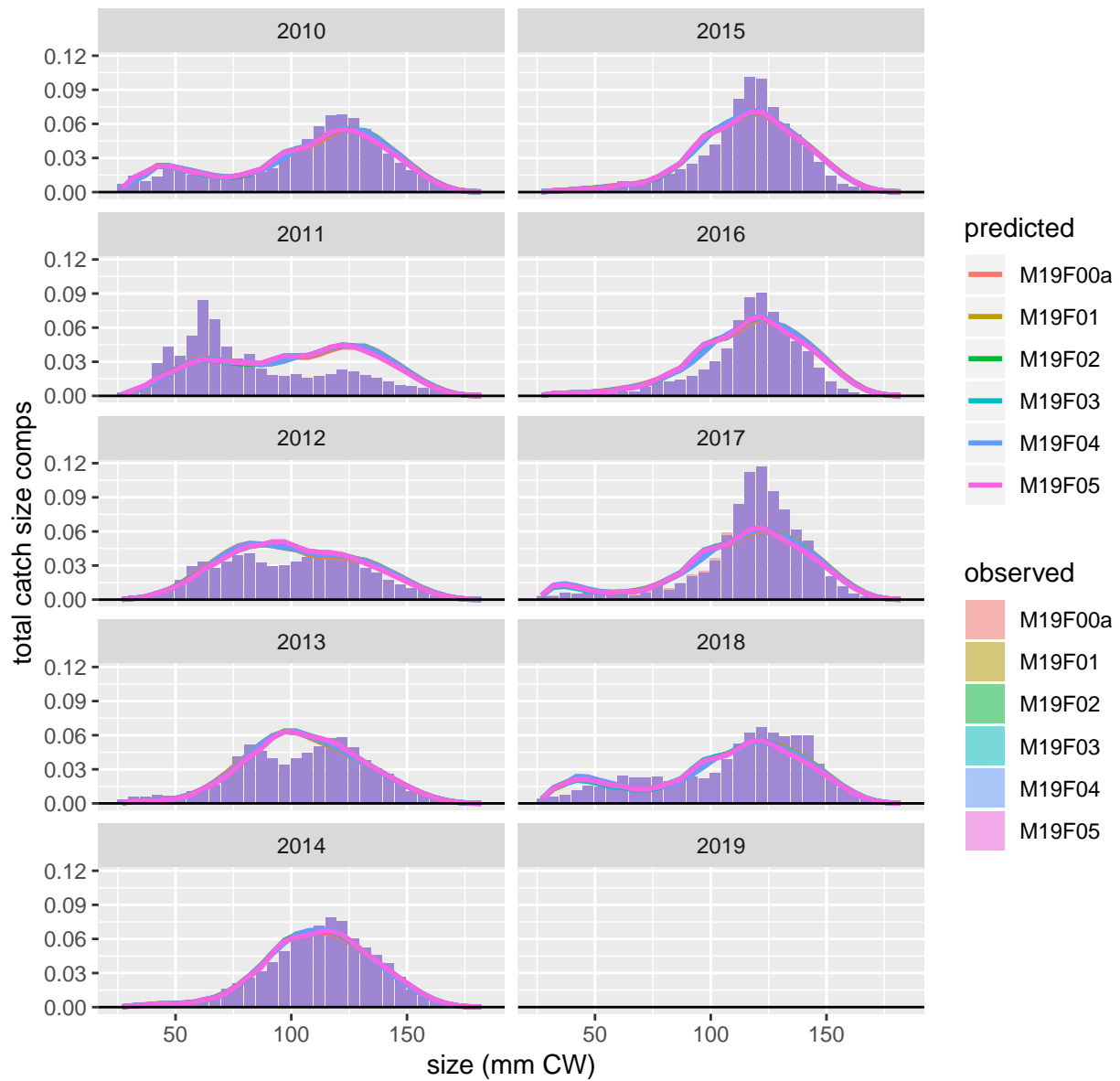


Figure 62: Comparison of observed and predicted male, all maturity, all shell total catch size comps for GTF. Page 5 of 5.

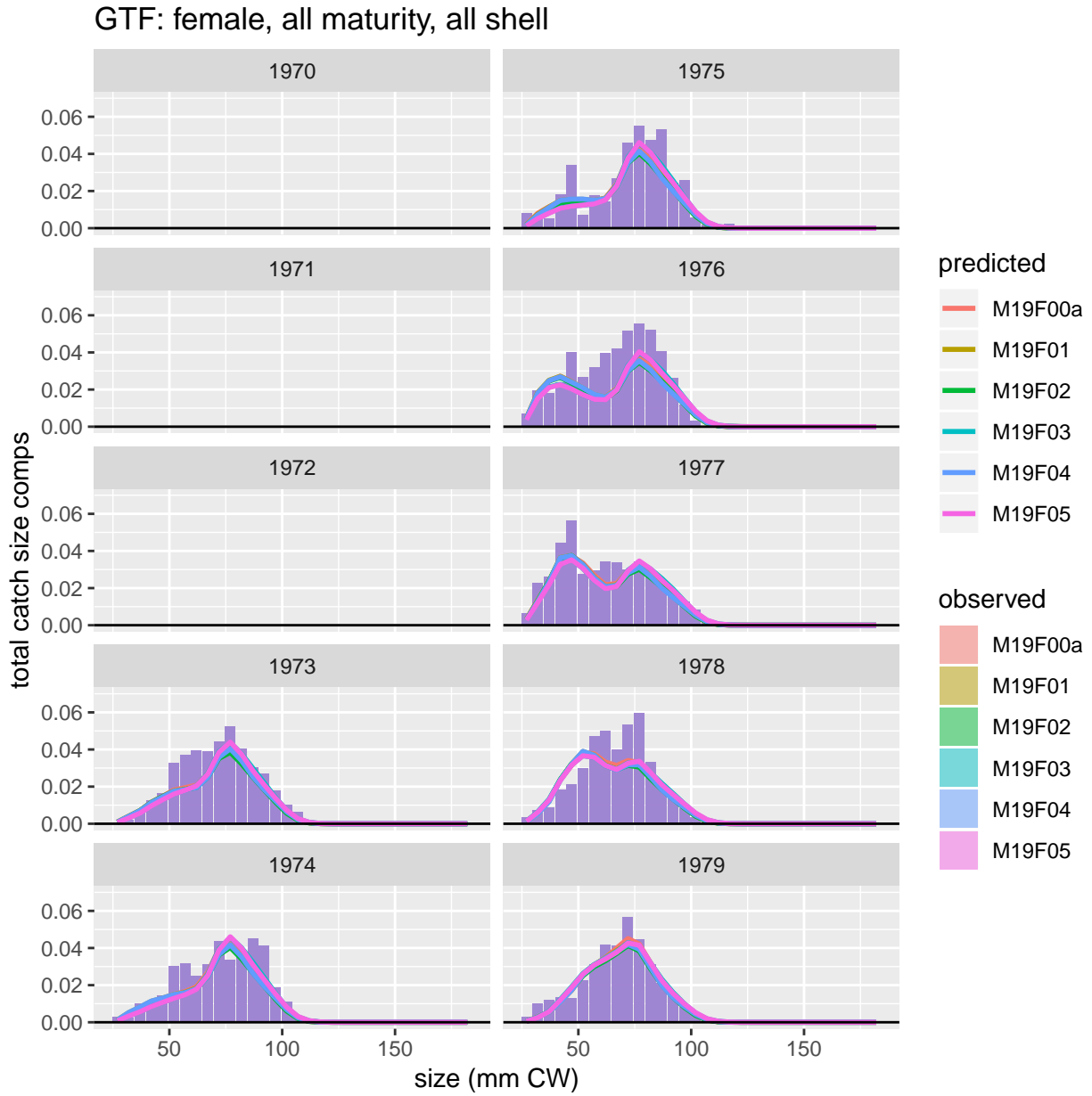


Figure 63: Comparison of observed and predicted female, all maturity, all shell total catch size comps for GTF. Page 1 of 5.



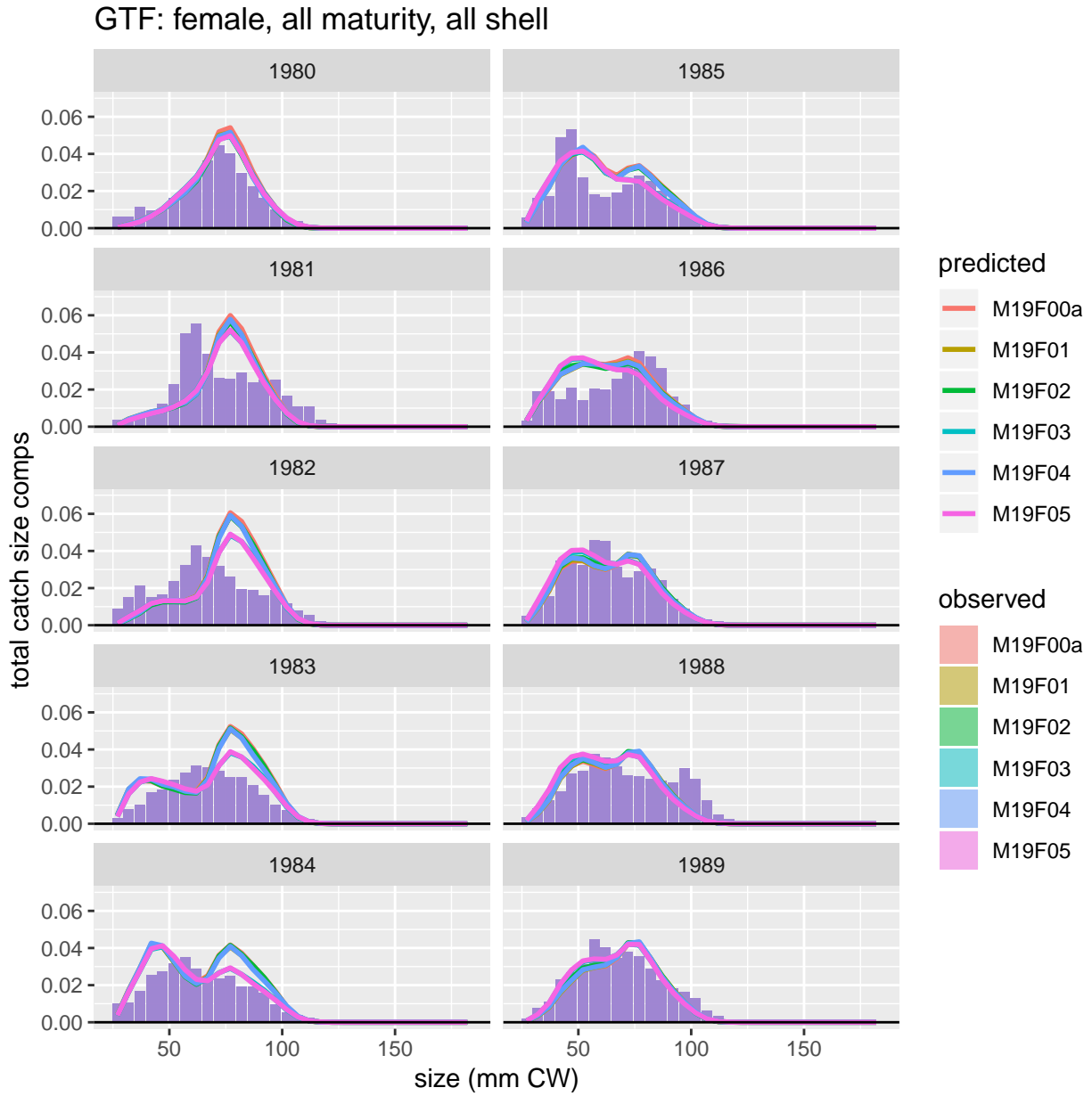


Figure 64: Comparison of observed and predicted female, all maturity, all shell total catch size comps for GTF. Page 2 of 5.

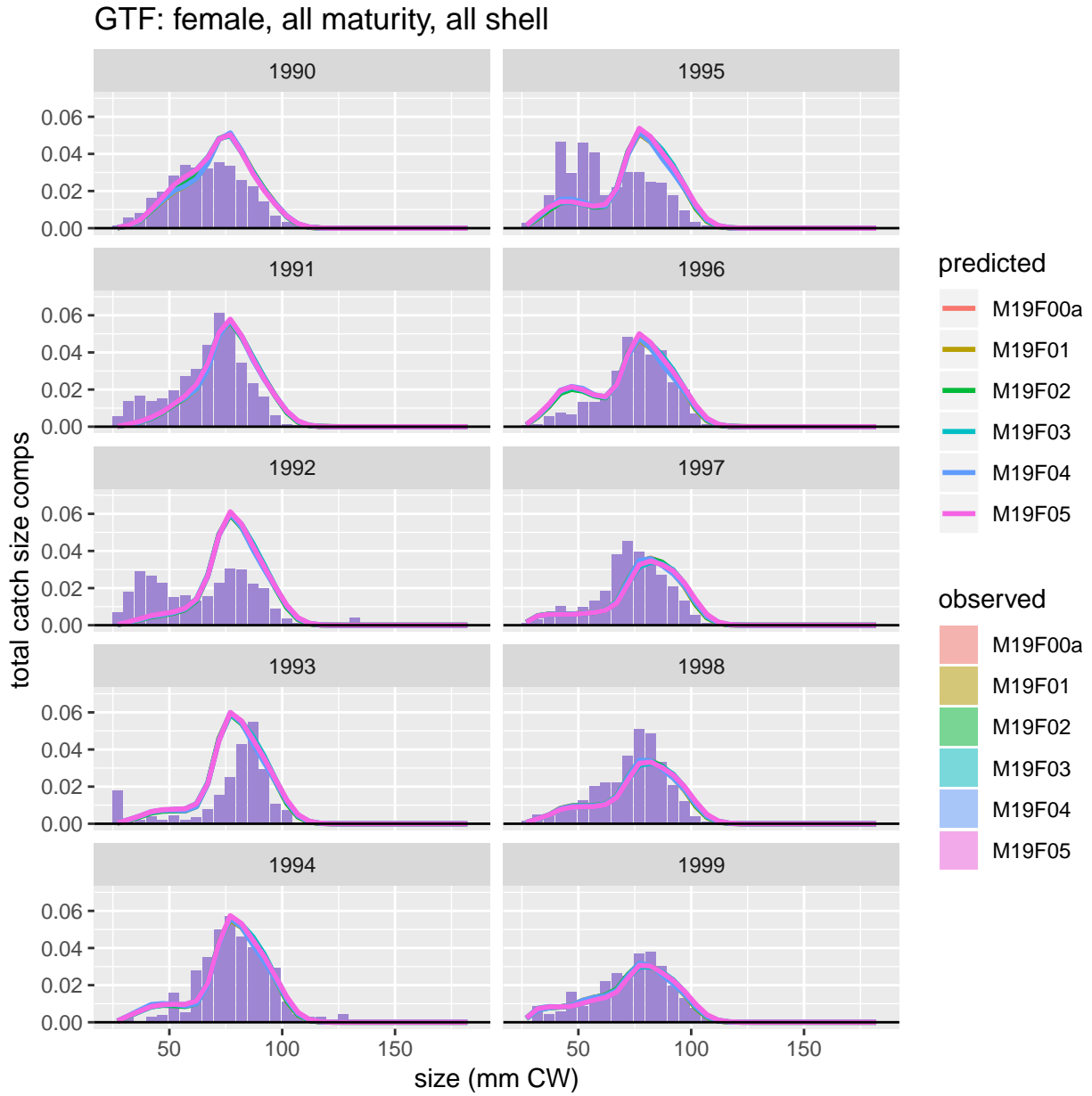


Figure 65: Comparison of observed and predicted female, all maturity, all shell total catch size comps for GTF. Page 3 of 5.

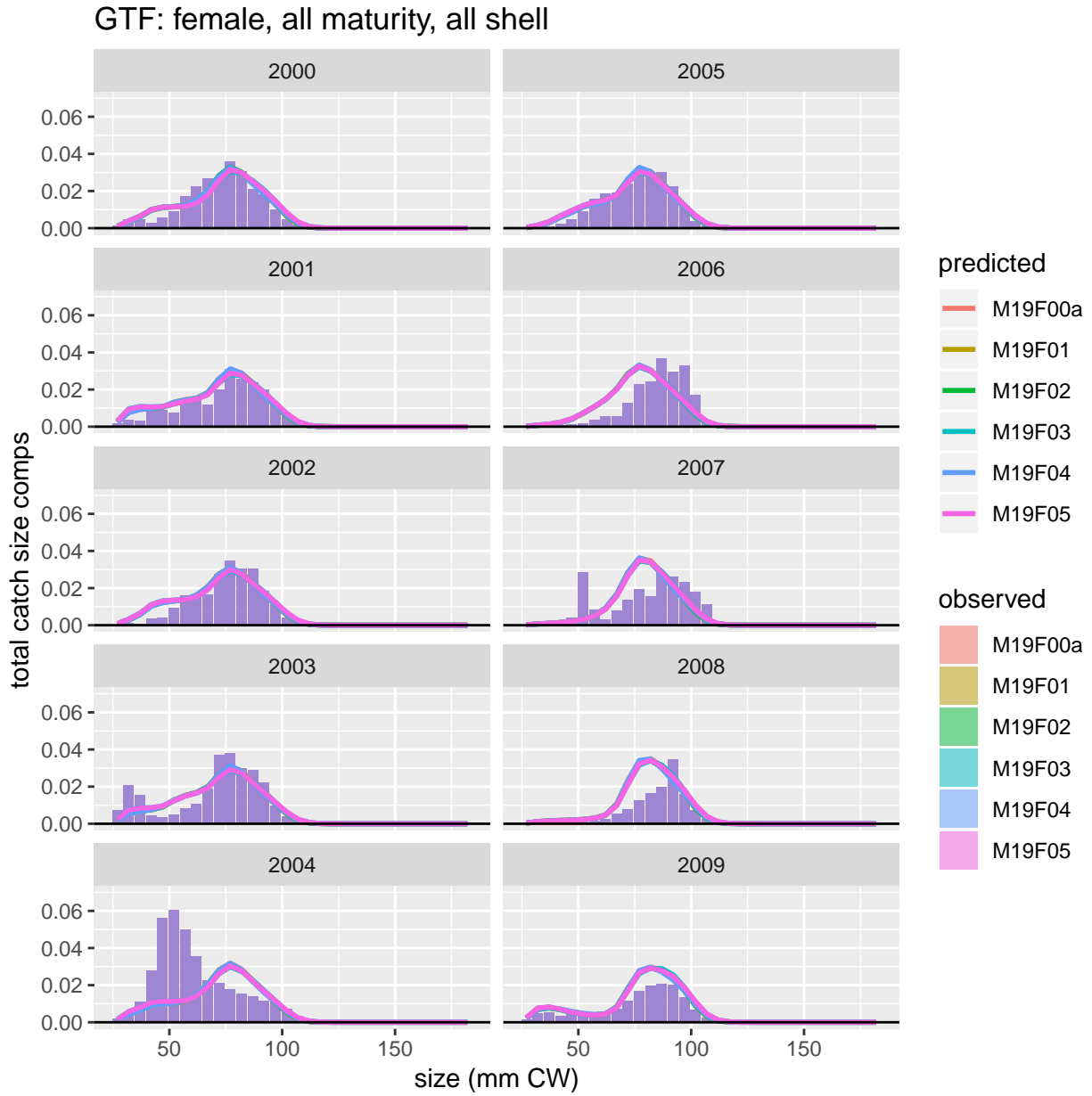


Figure 66: Comparison of observed and predicted female, all maturity, all shell total catch size comps for GTF. Page 4 of 5.

GTF: female, all maturity, all shell

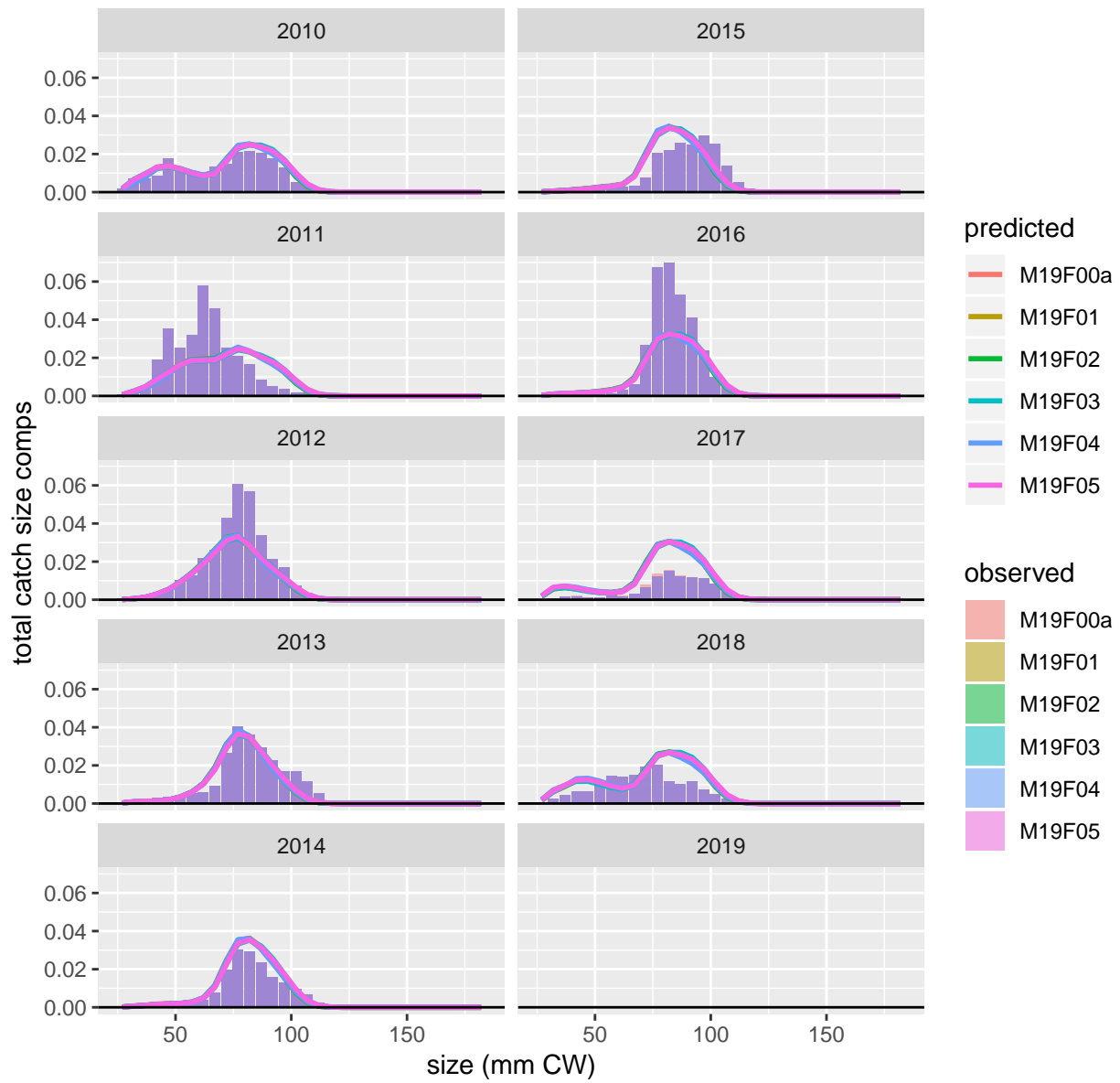


Figure 67: Comparison of observed and predicted female, all maturity, all shell total catch size comps for GTF. Page 5 of 5.

RKF: male, all maturity, all shell

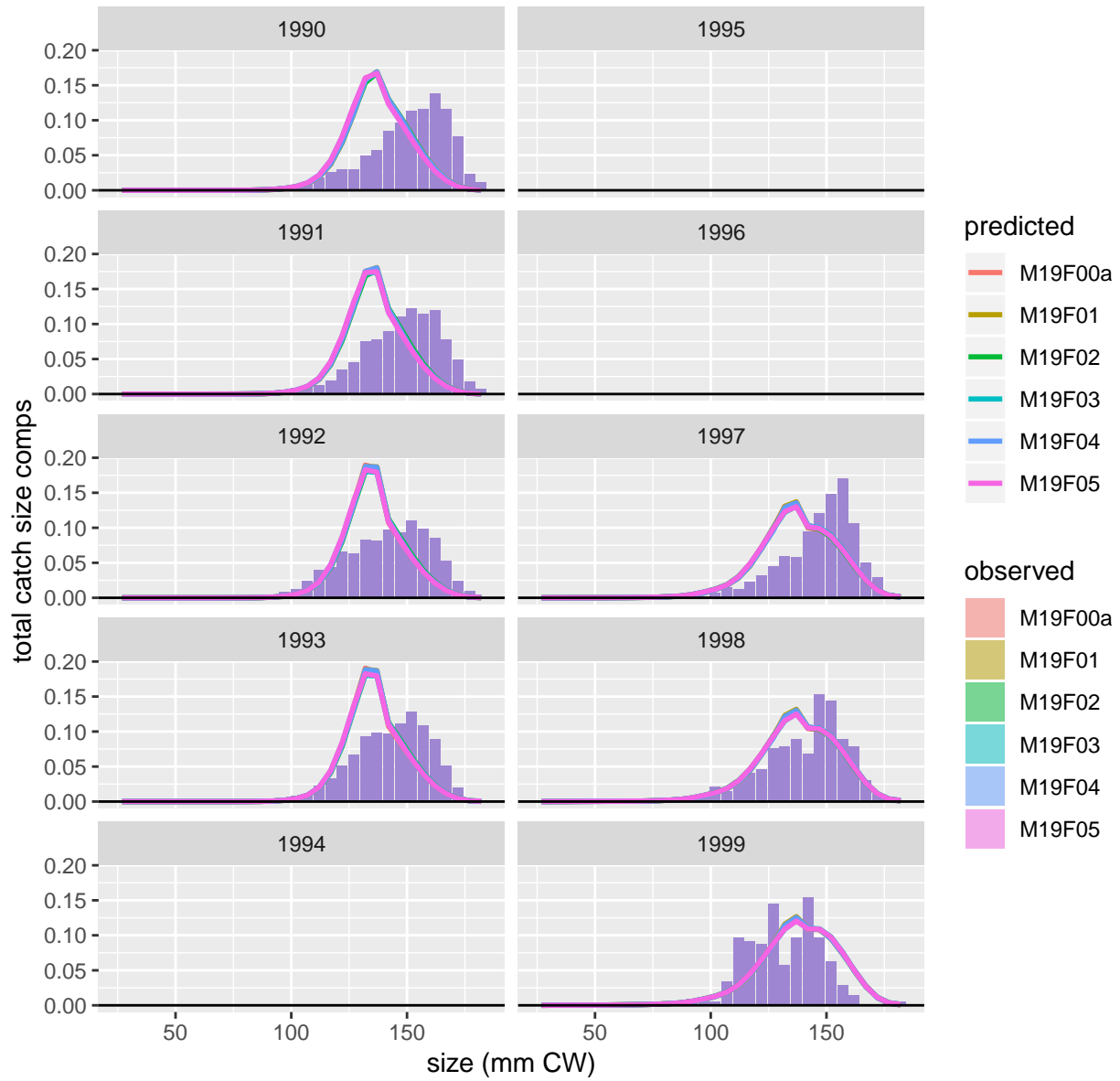


Figure 68: Comparison of observed and predicted male, all maturity, all shell total catch size comps for RKF. Page 1 of 3.

RKF: male, all maturity, all shell

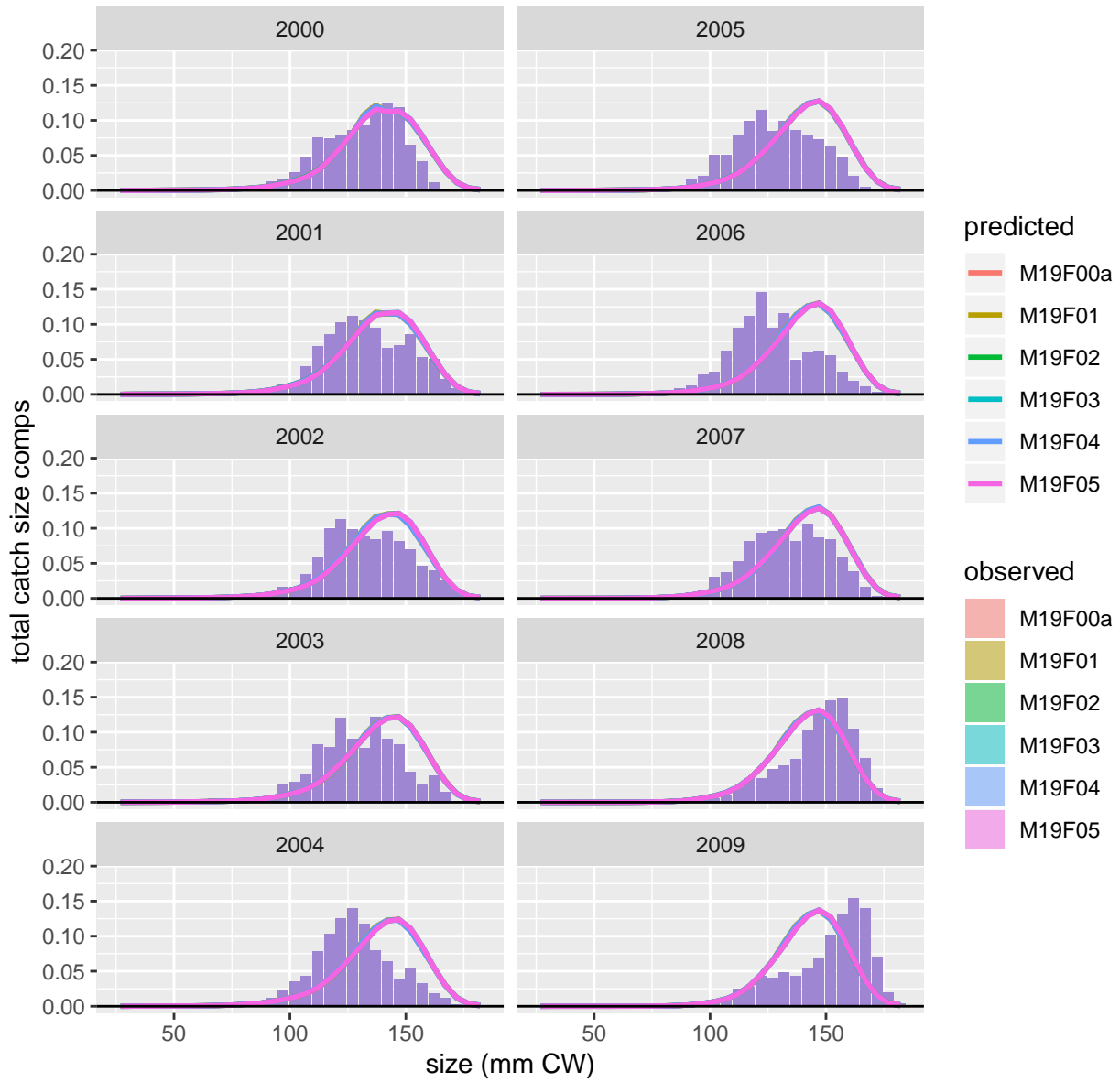


Figure 69: Comparison of observed and predicted male, all maturity, all shell total catch size comps for RKF. Page 2 of 3.

RKF: male, all maturity, all shell

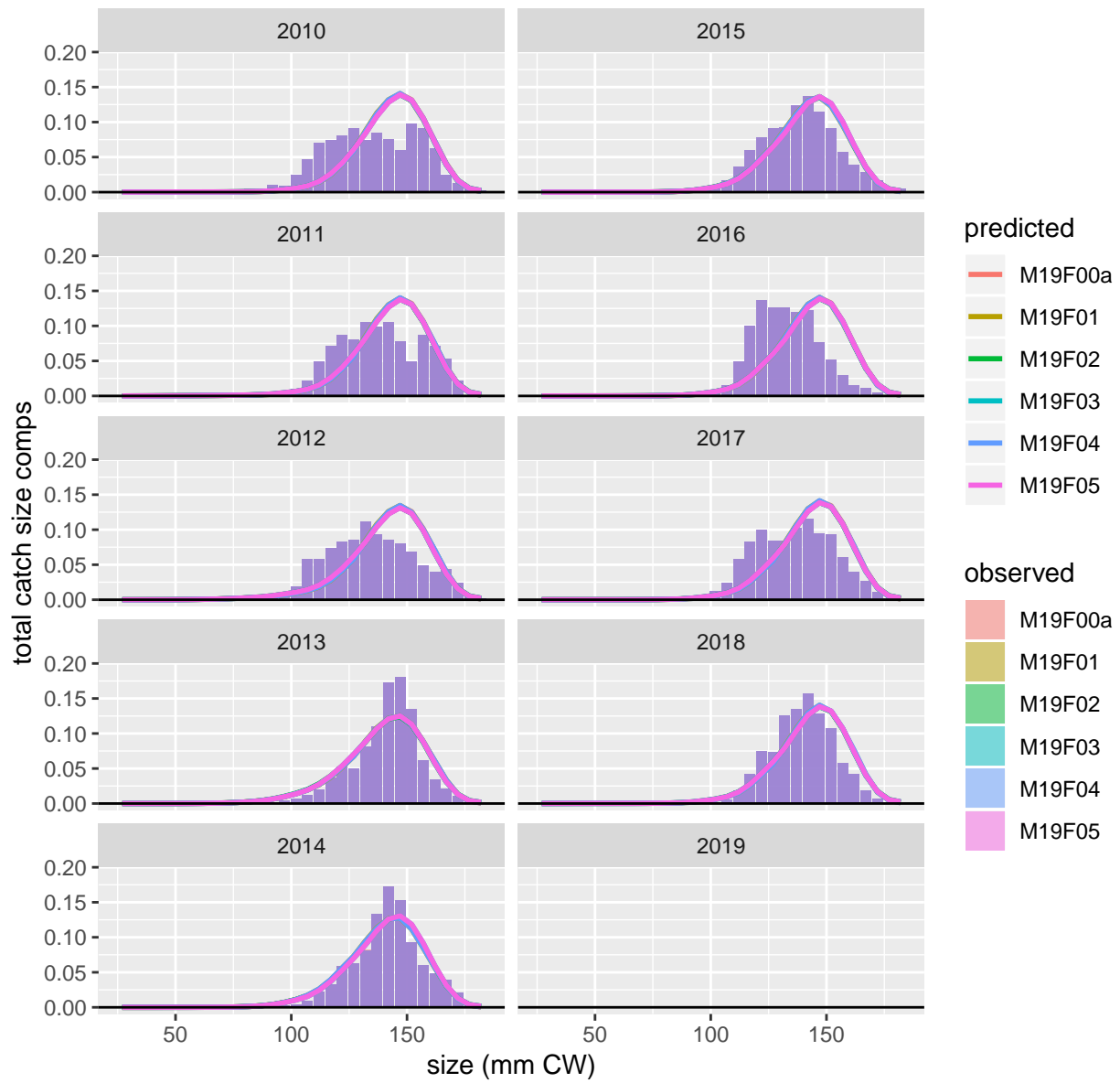


Figure 70: Comparison of observed and predicted male, all maturity, all shell total catch size comps for RKF. Page 3 of 3.

RKF: female, all maturity, all shell

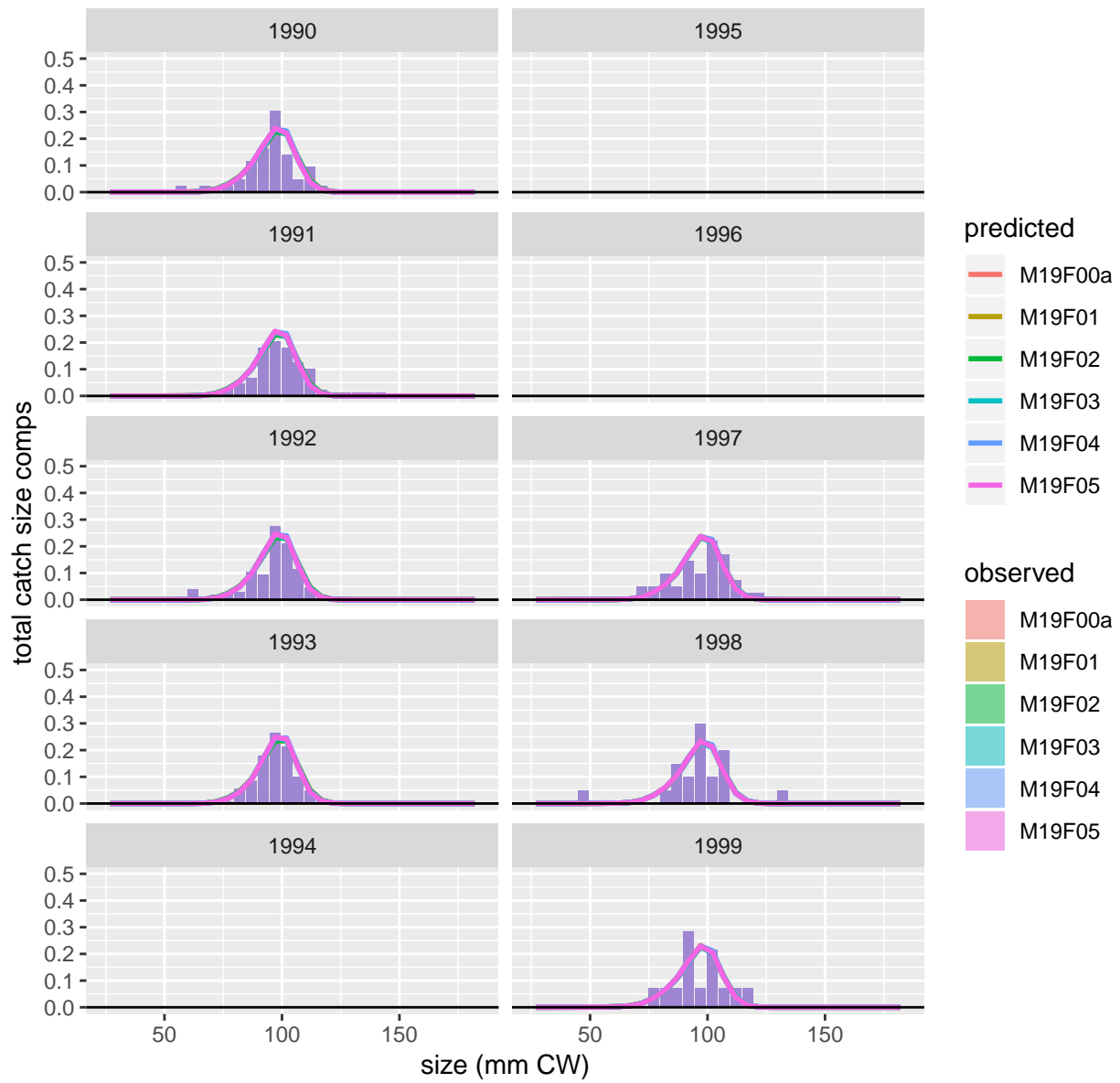


Figure 71: Comparison of observed and predicted female, all maturity, all shell total catch size comps for RKF. Page 1 of 3.



RKF: female, all maturity, all shell

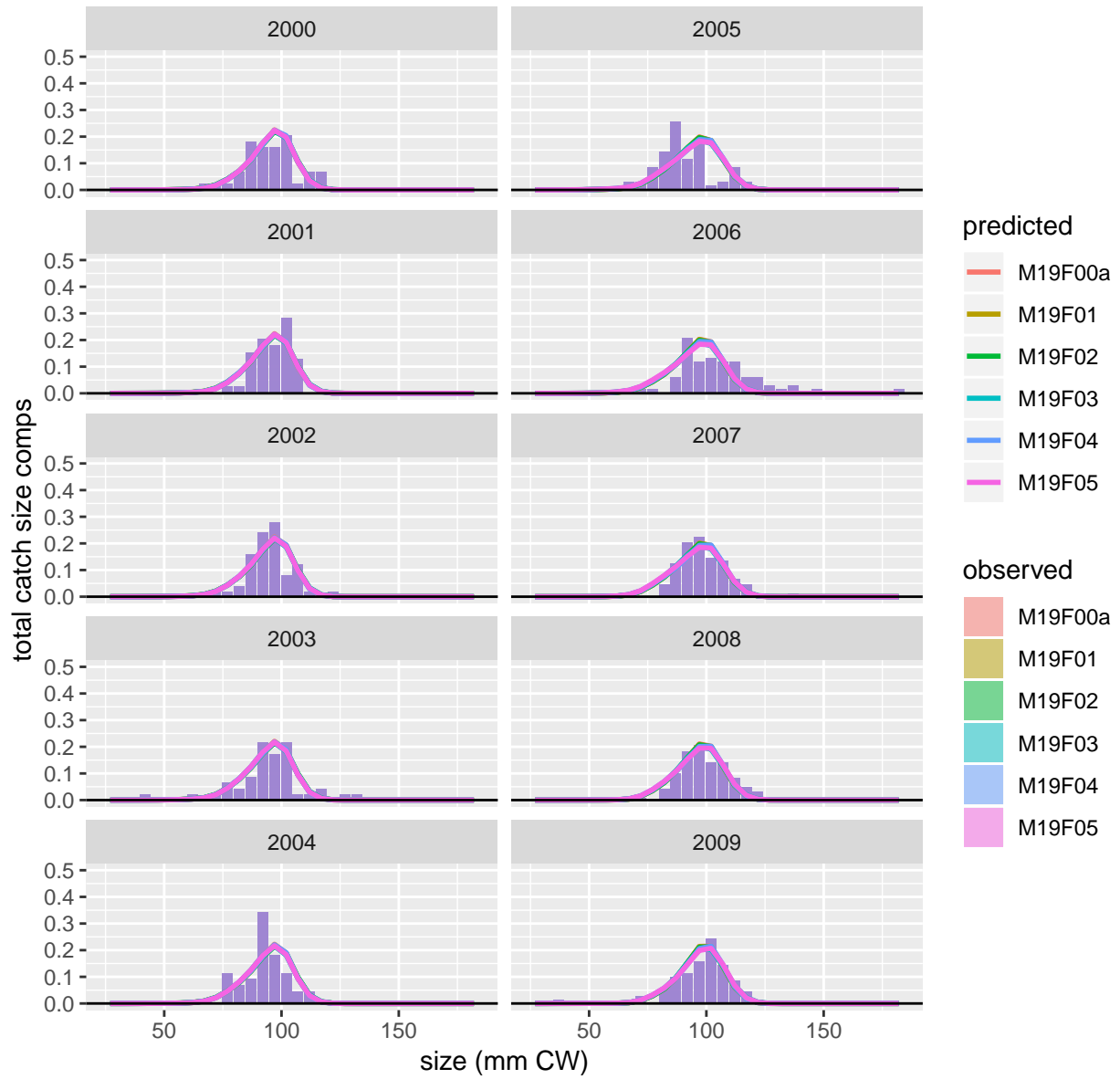


Figure 72: Comparison of observed and predicted female, all maturity, all shell total catch size comps for RKF. Page 2 of 3.

RKF: female, all maturity, all shell

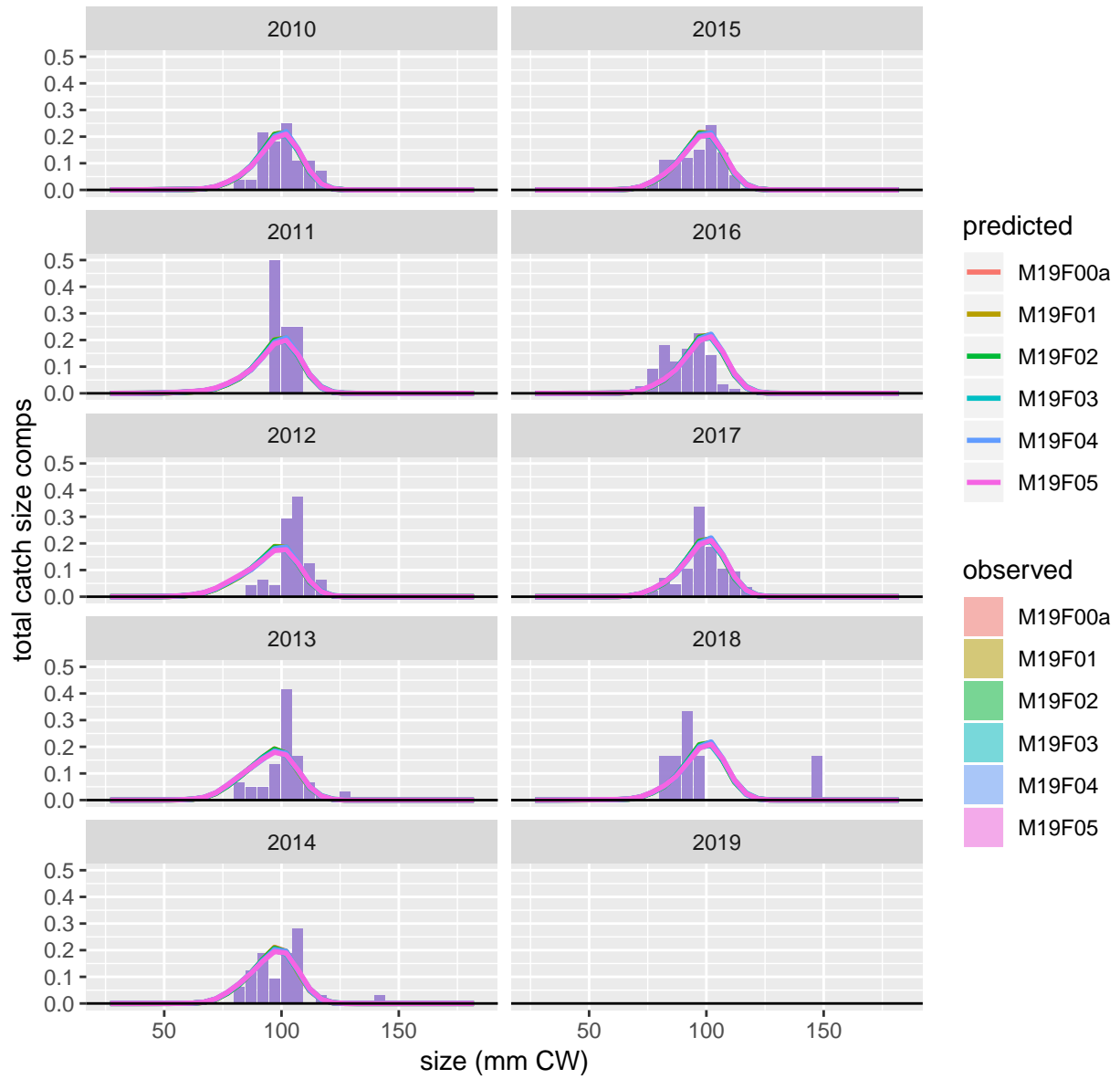


Figure 73: Comparison of observed and predicted female, all maturity, all shell total catch size comps for RKF. Page 3 of 3.