

Appendix I5:

Fits to Maturity and Growth Data

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Model fits to “other” data

Fits to growth data and male maturity datasets by the model(s) are presented in this section. Not all of the fits presented are necessarily included in the parameter optimization for each model; some fits 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.

Growth data

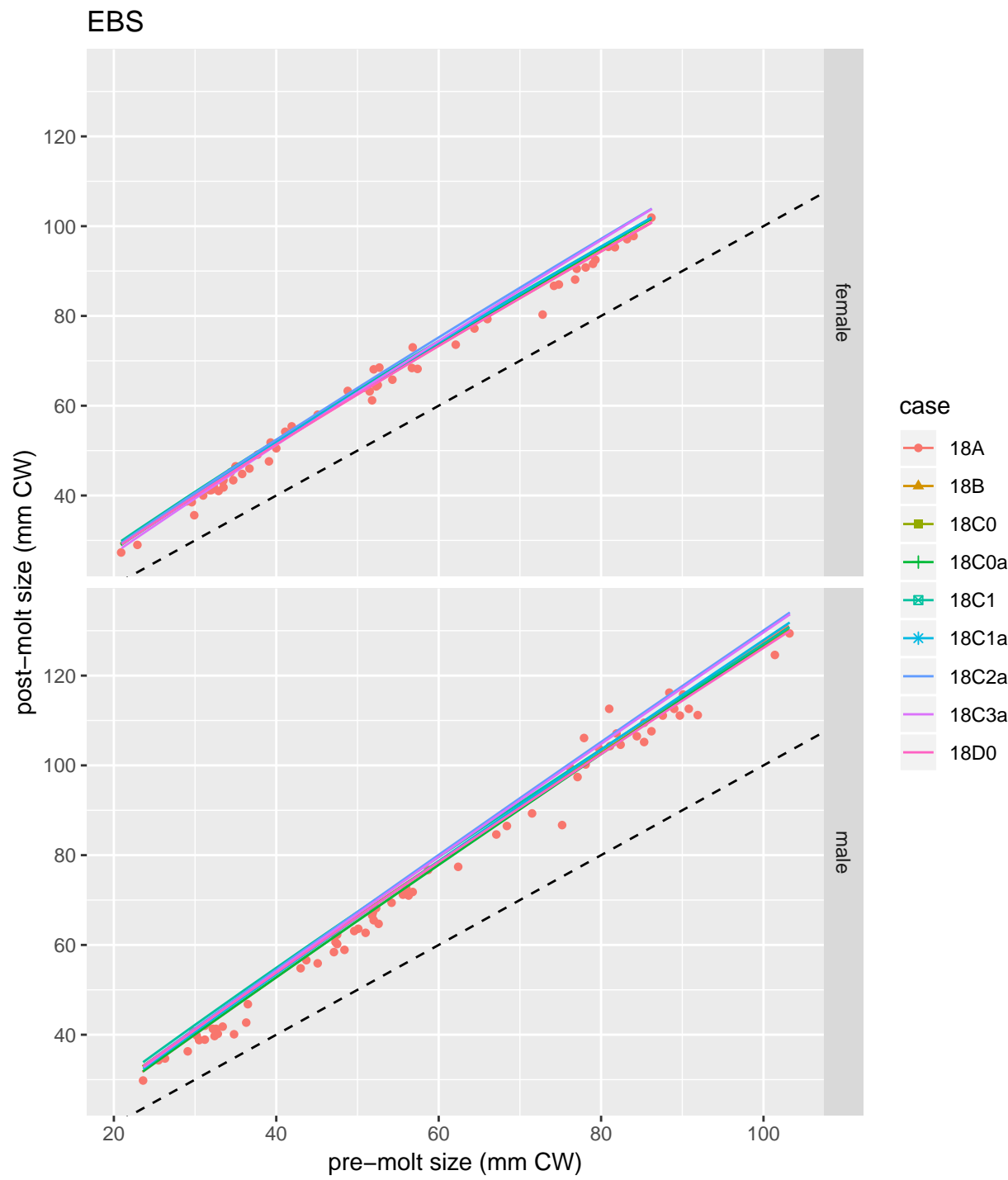


Figure 1: Model fits to EBS.

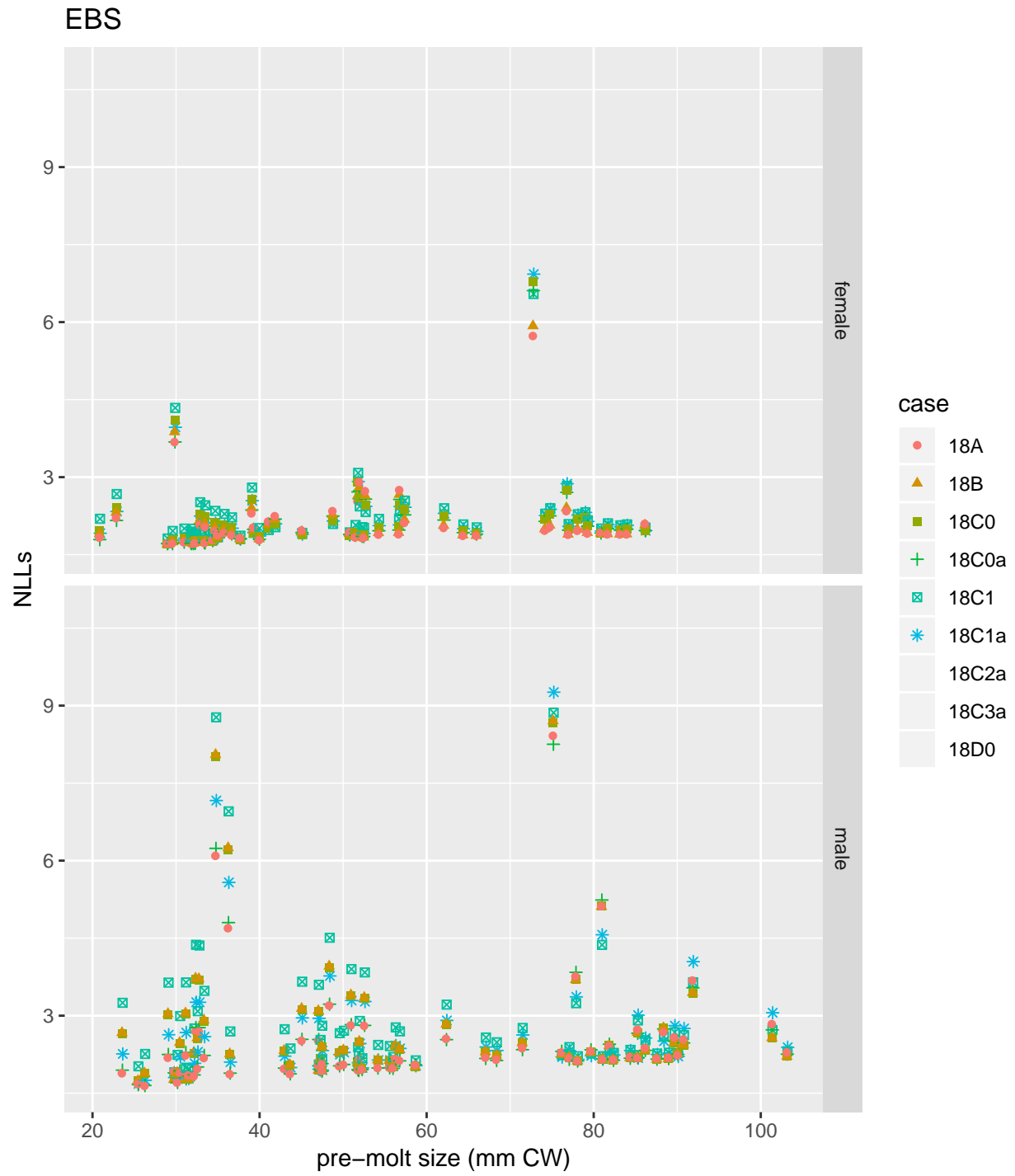


Figure 2: Negative log-likelihood values for fits to EBS.

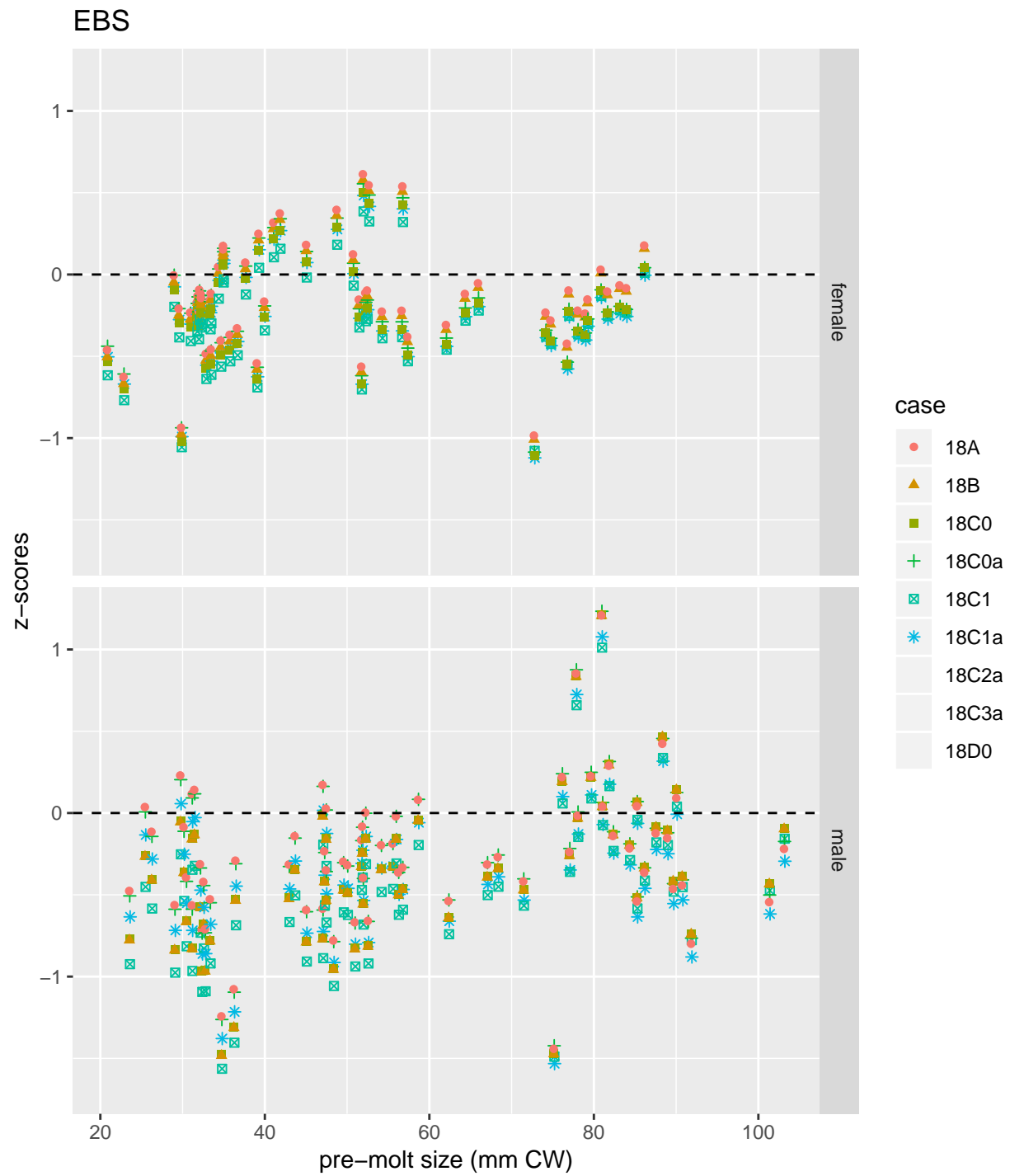


Figure 3: Z-scores for fits to EBS.

Maturity data

In the male maturity dataset used in this assessment, a number of male crab less than 60 mm CW were classified as mature based on their chela height-to-carapace width ratios. For the purposes of fitting the data, these crab were assumed to be misclassified and to actually be immature. Consequently, data from size bins less than 60 mm CW, although shown in the following plots comparing model predictions to observations, were not included in the likelihood used for model optimization and are not shown in the NLL and z-score plots.

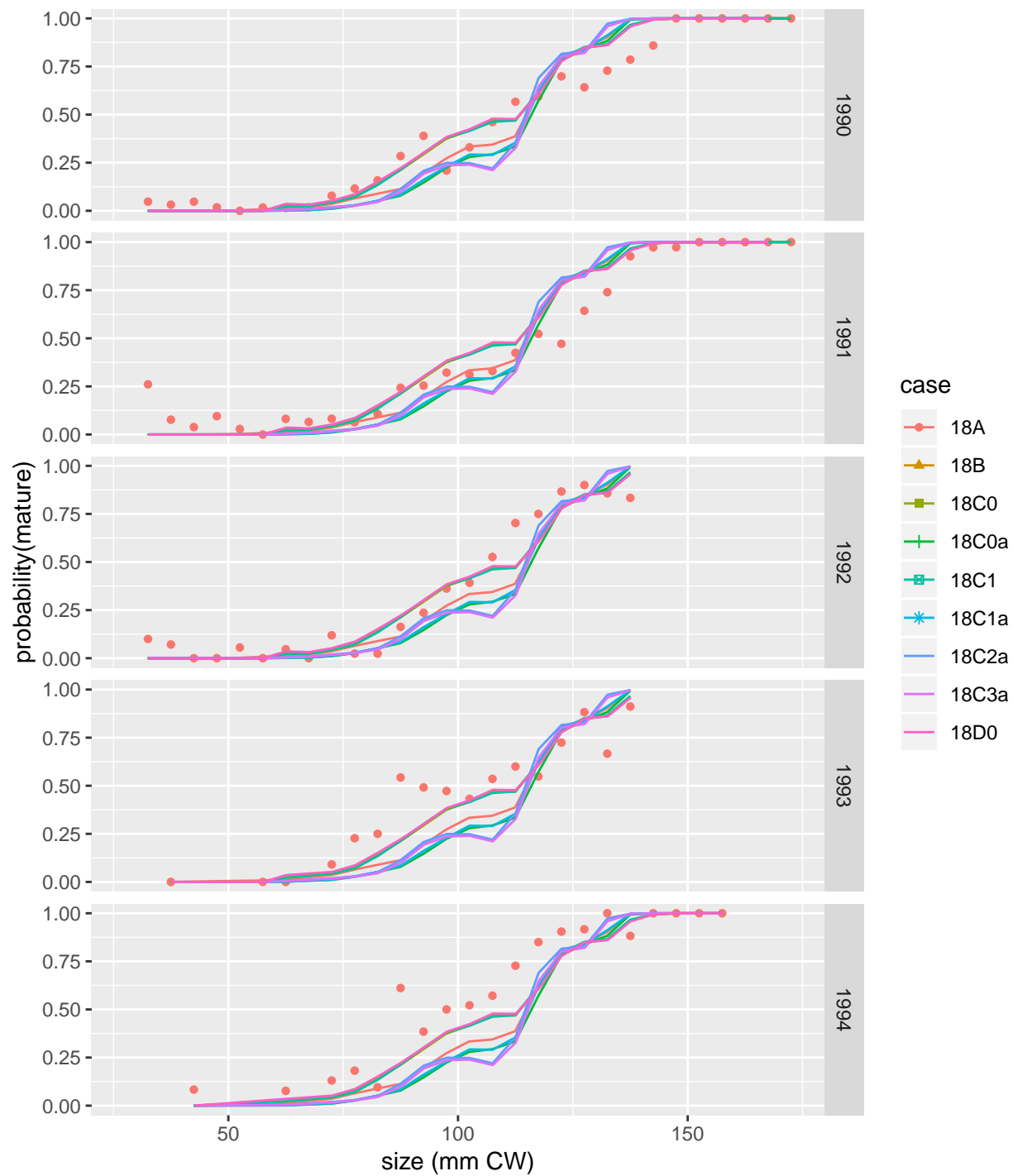


Figure 4: Model fits to MATURITY OGIVES for 1990 to 1994.

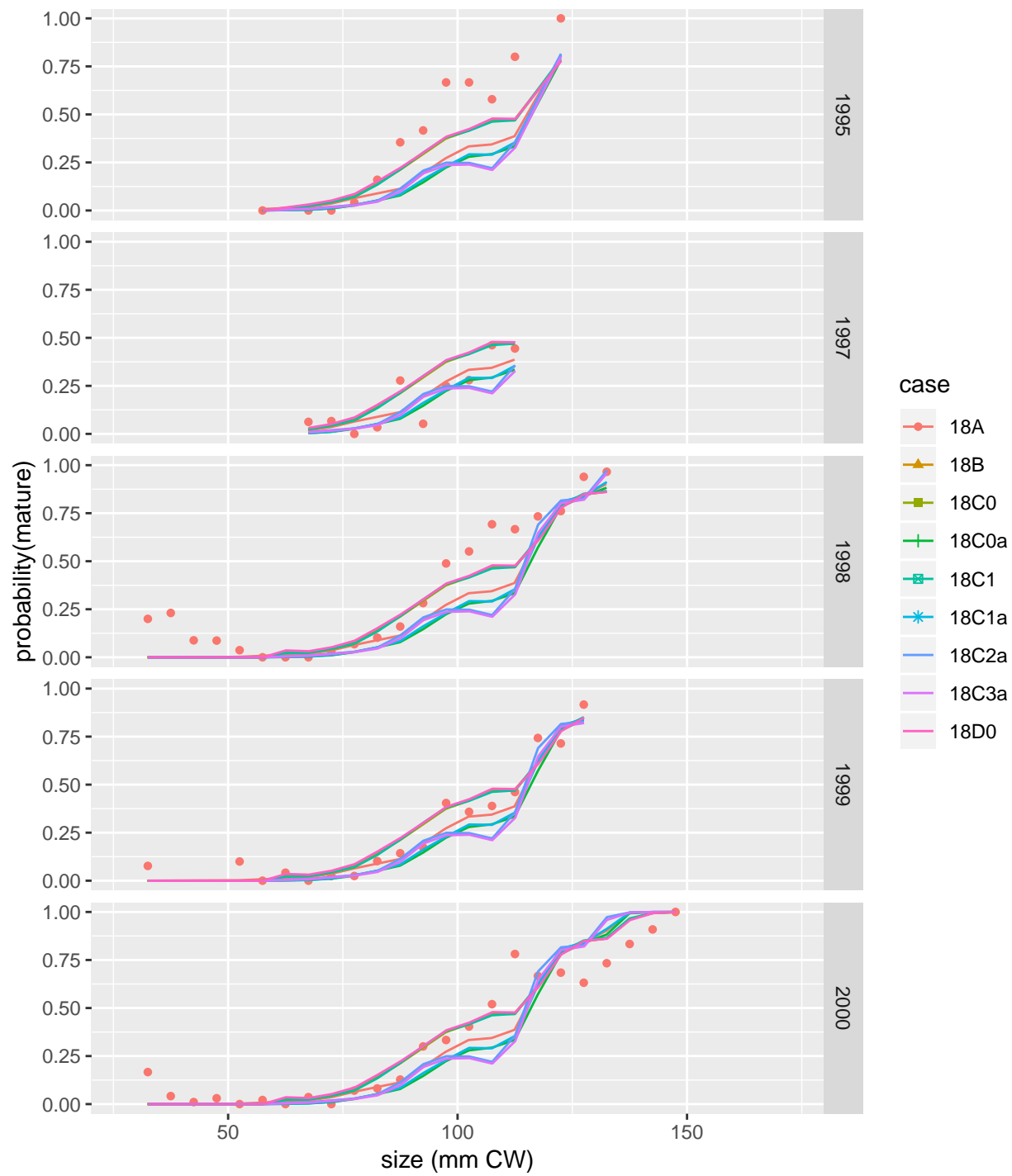


Figure 5: Model fits to MATURITY OGIVES for 1995 to 2000.

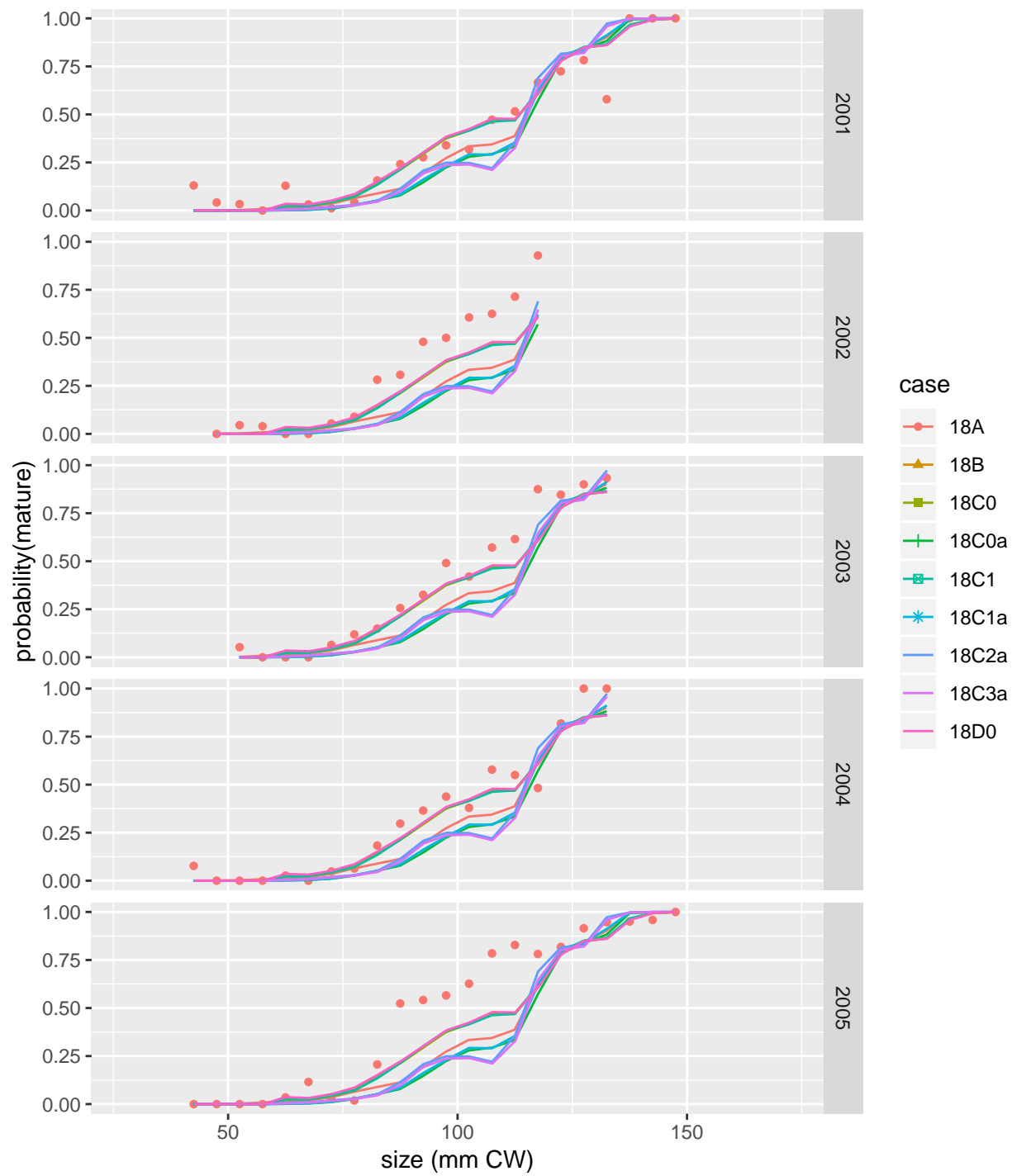


Figure 6: Model fits to MATURITY OGIVES for 2001 to 2005.

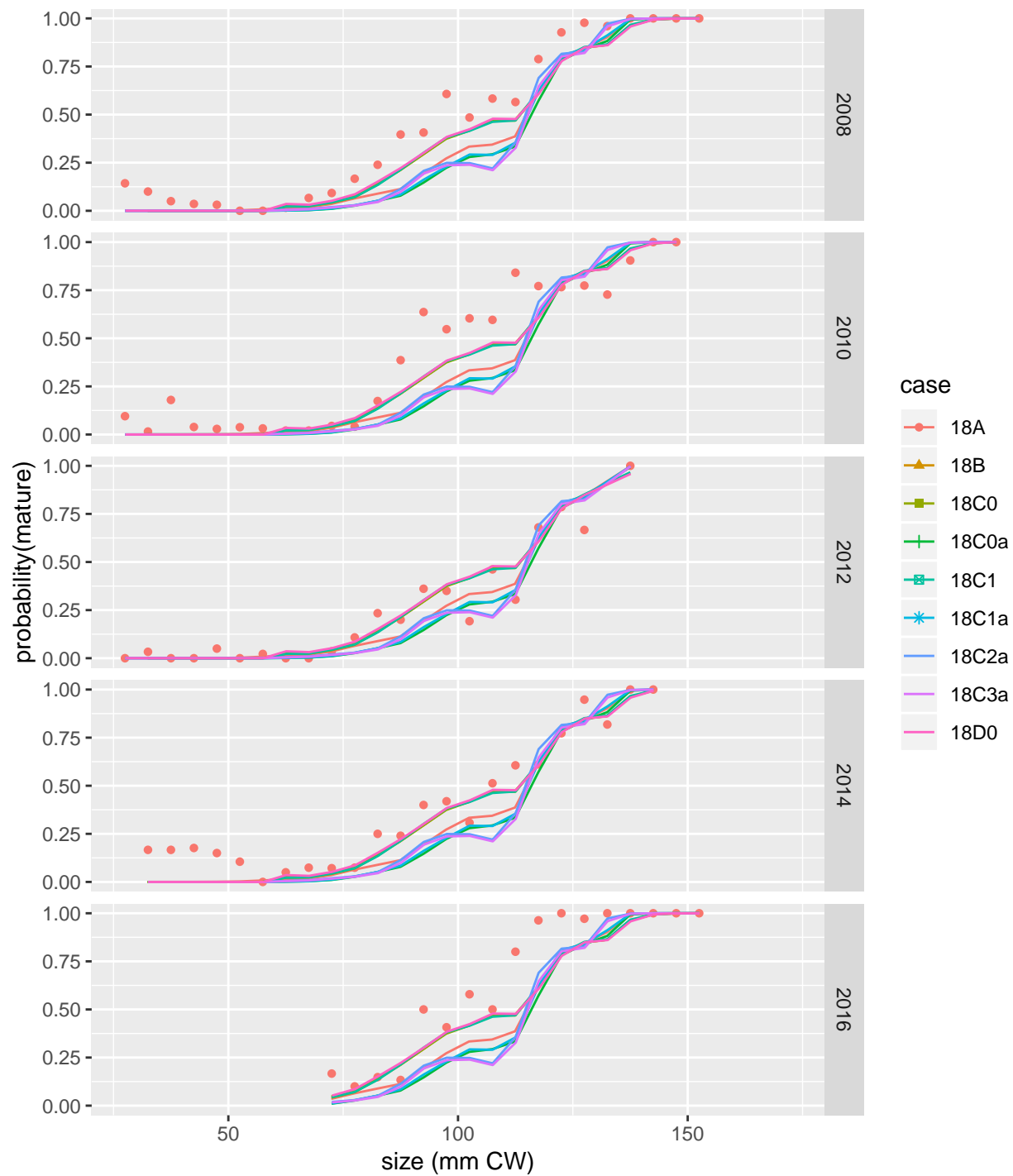


Figure 7: Model fits to MATURITY OGIVES for 2008 to 2016.

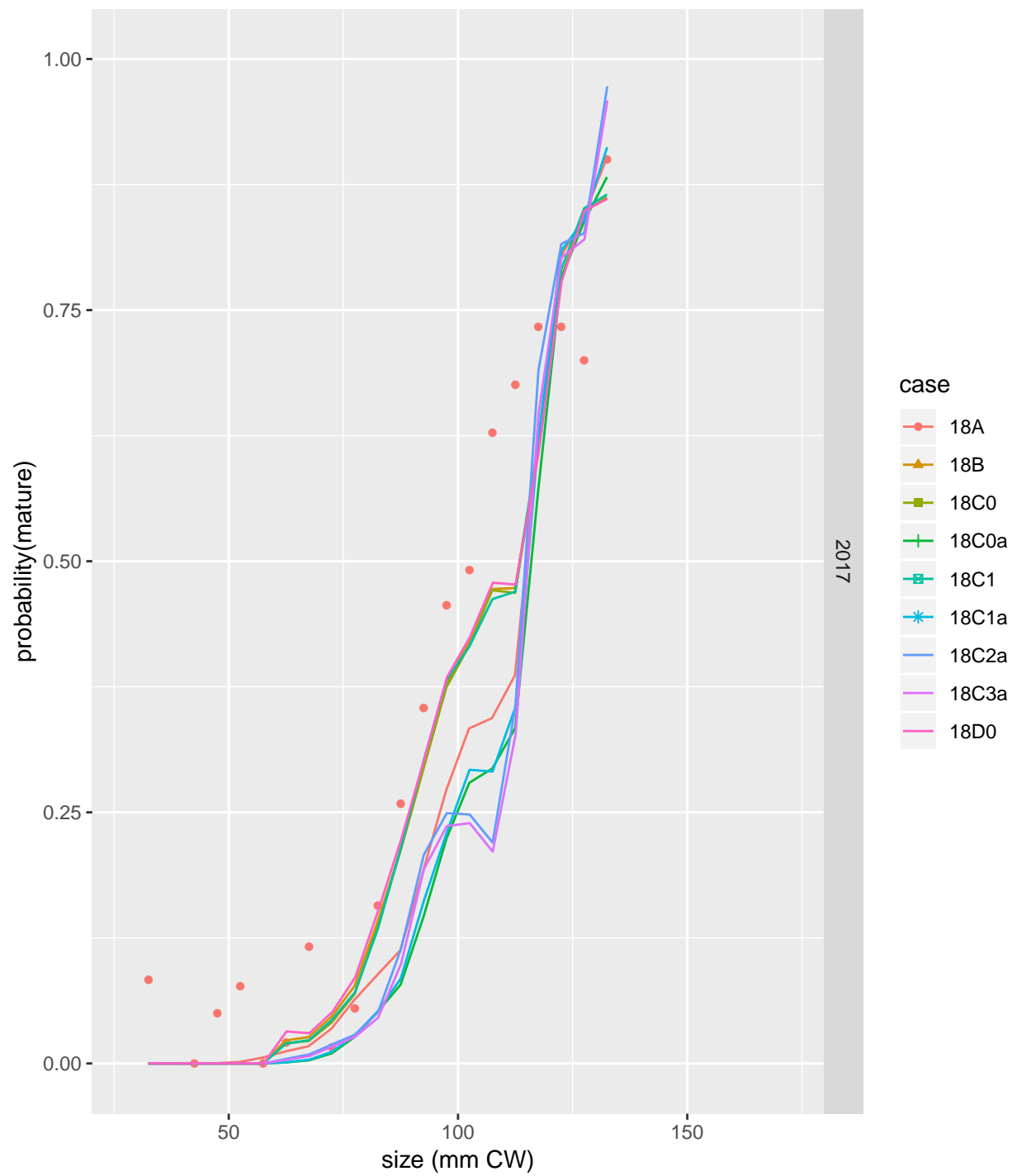


Figure 8: Model fits to MATURITY OGIVES for 2017 to 2017.