

Appendix A16. Plots of results from SCATAG model run with total catch lambda weight=50.

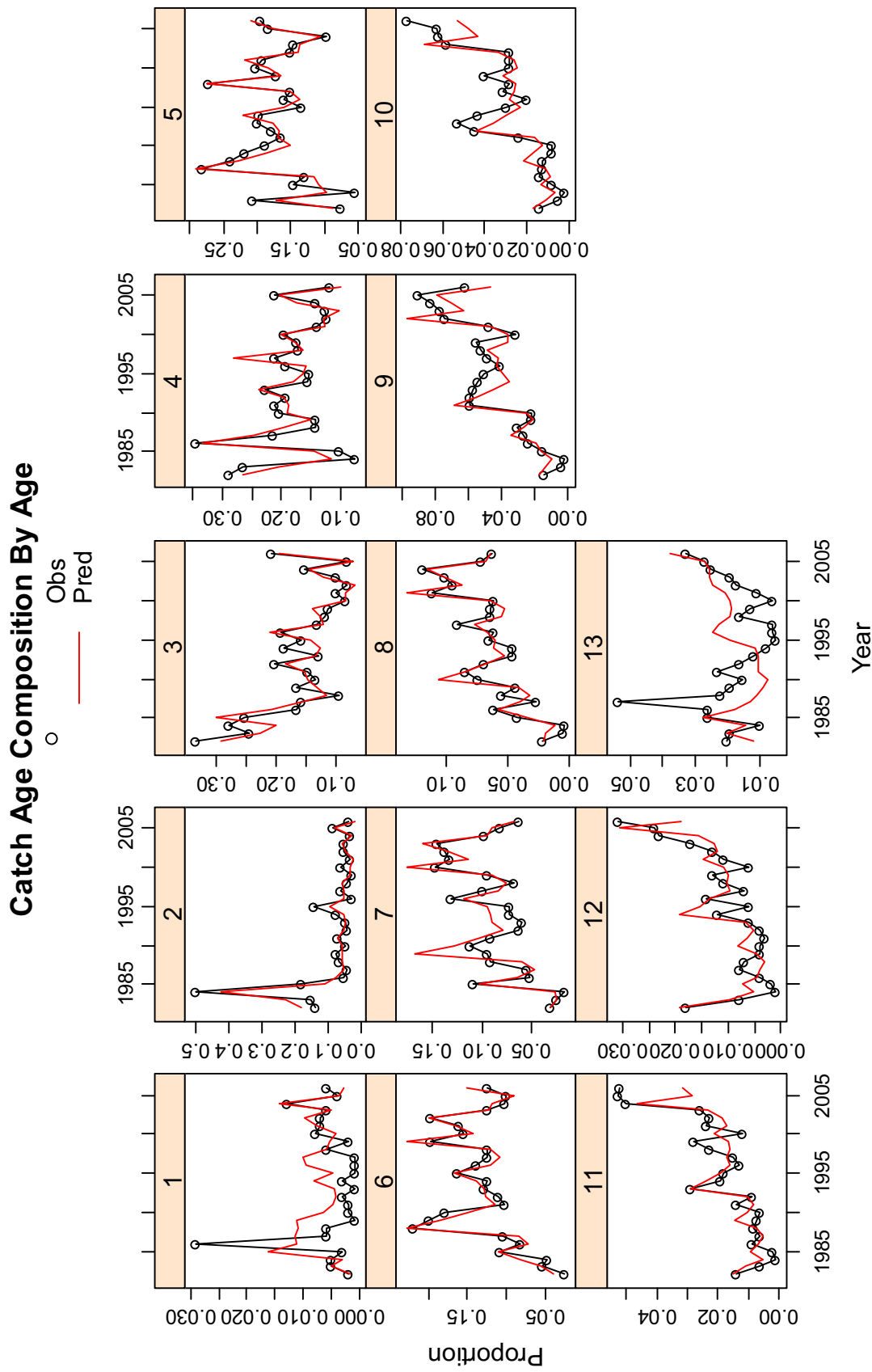


Figure 1. Comparison between observed and predicted annual catch age composition by age

# Residuals of Age Composition By Age

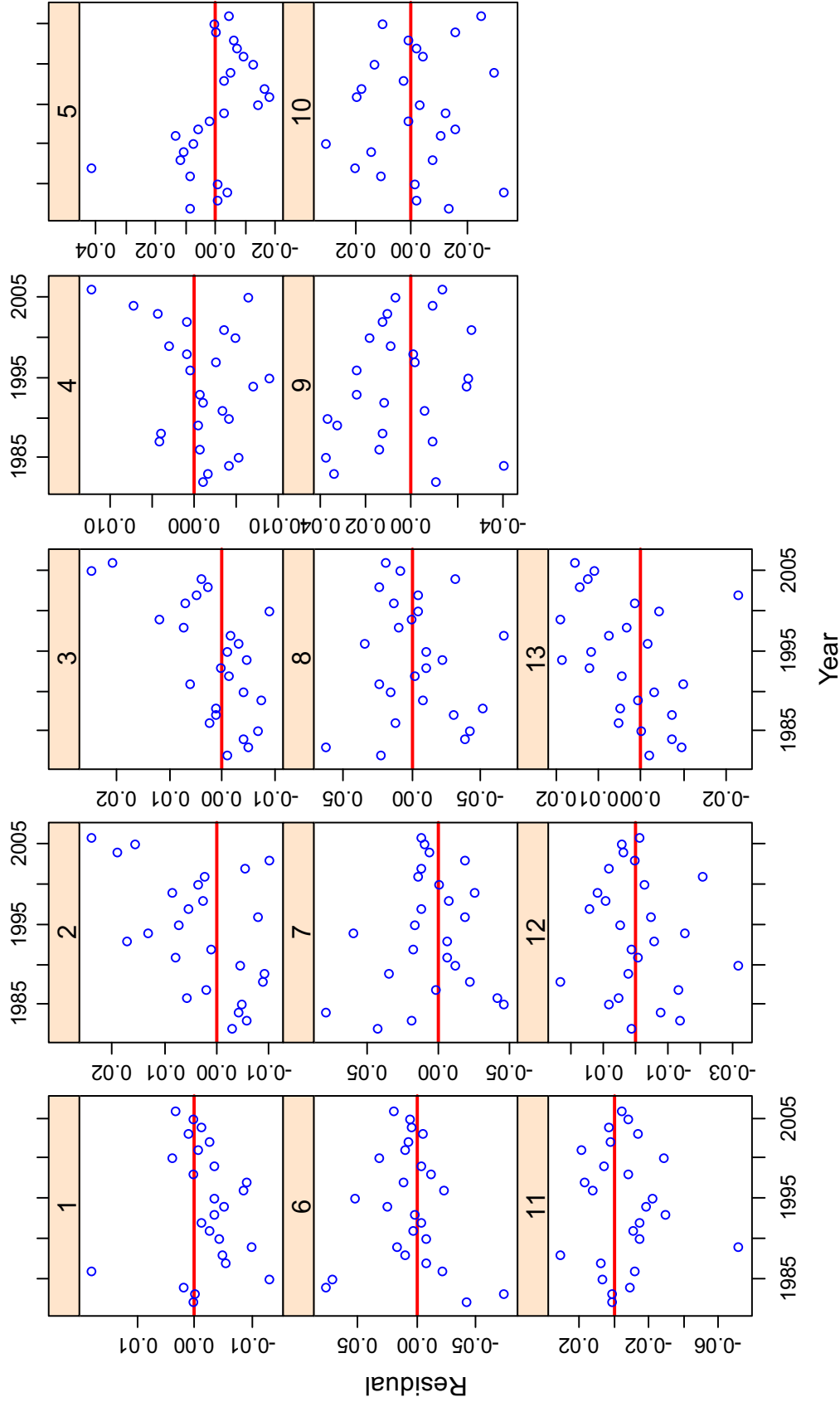


Figure 2. Residuals of annual catch age composition by age.

### Catch Age Composition By Year

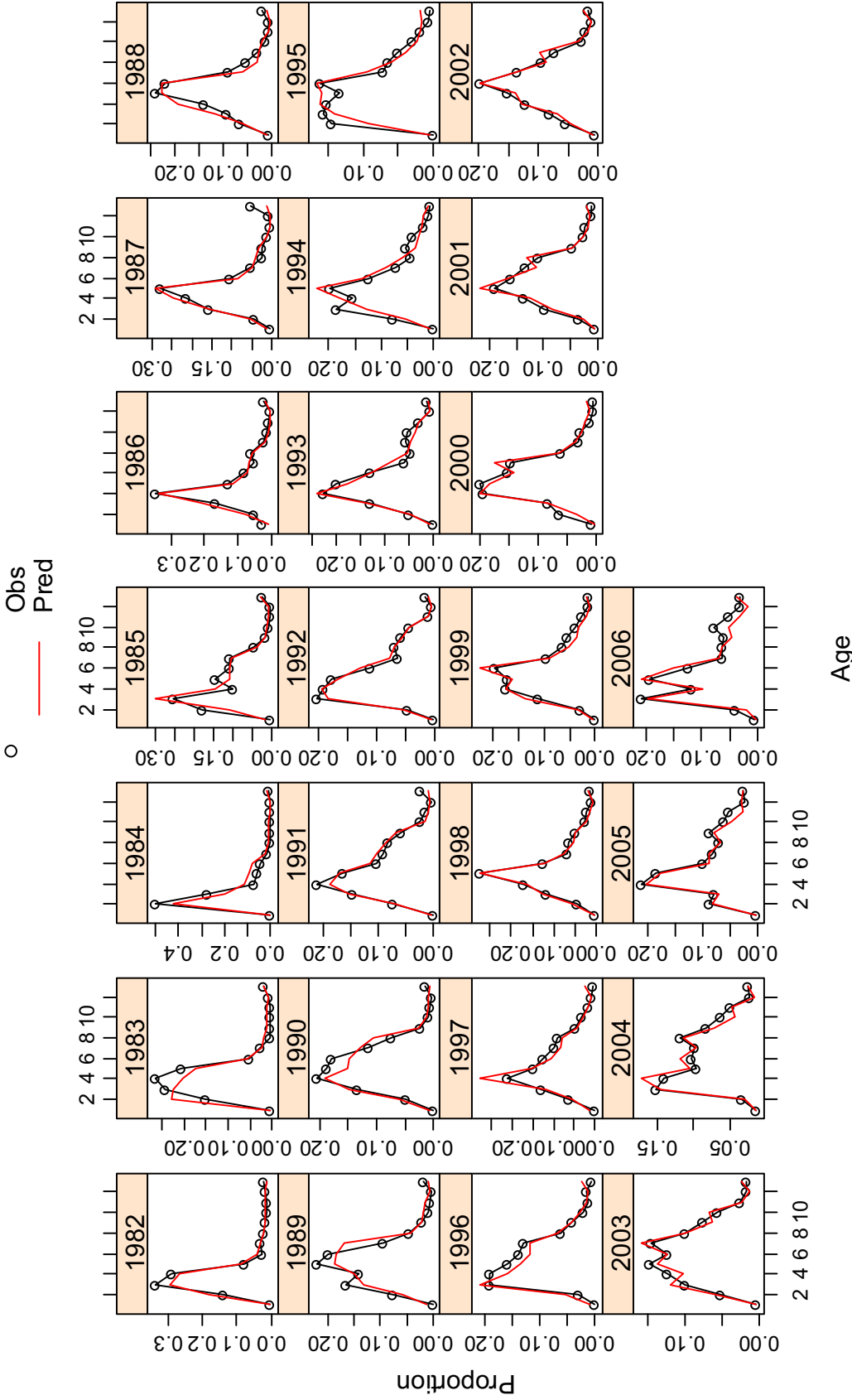


Figure 3. Comparison between observed and predicted catch age composition by year

### Residuals of Age Composition By Year

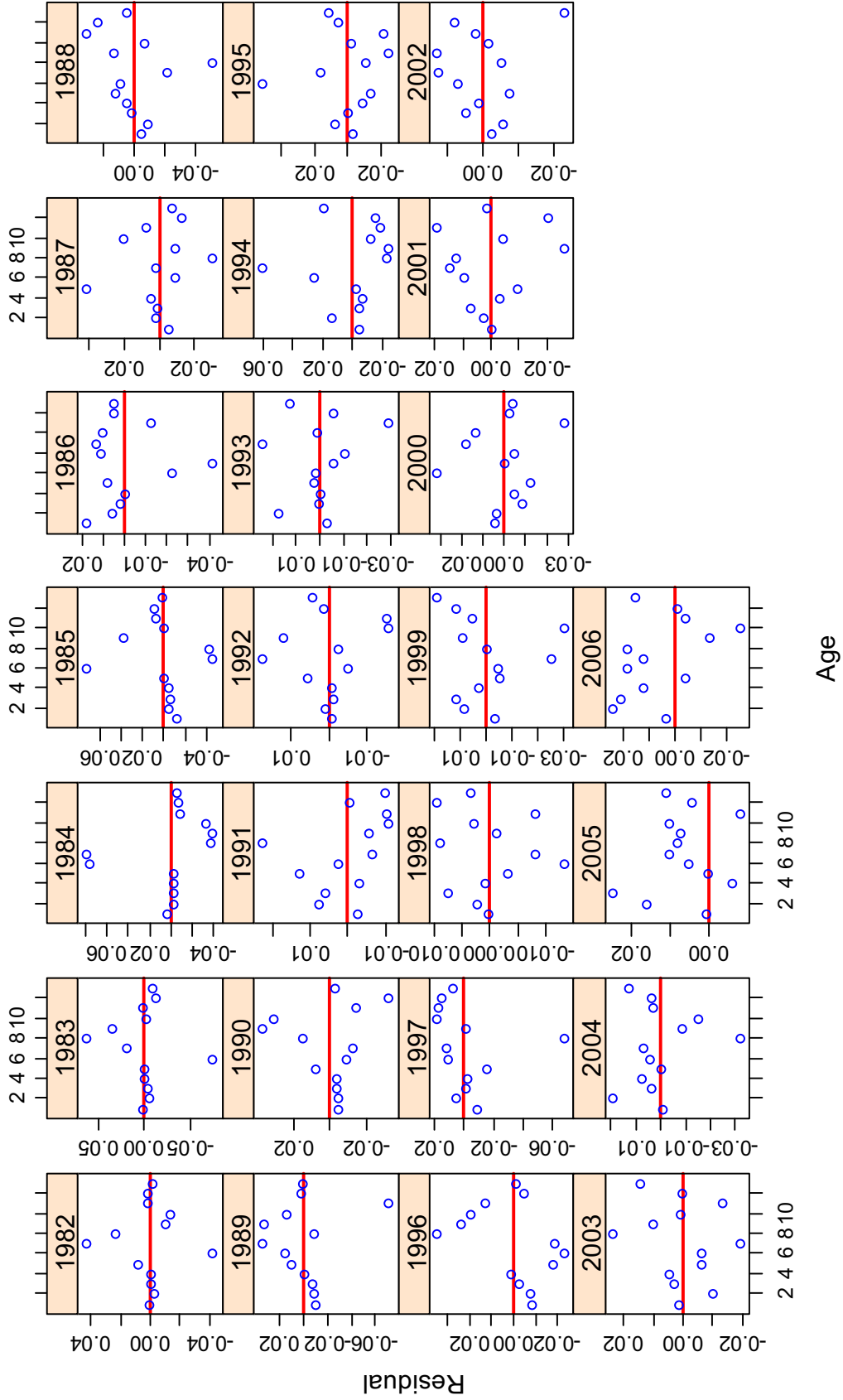


Figure 4. Residuals of annual catch age composition by age

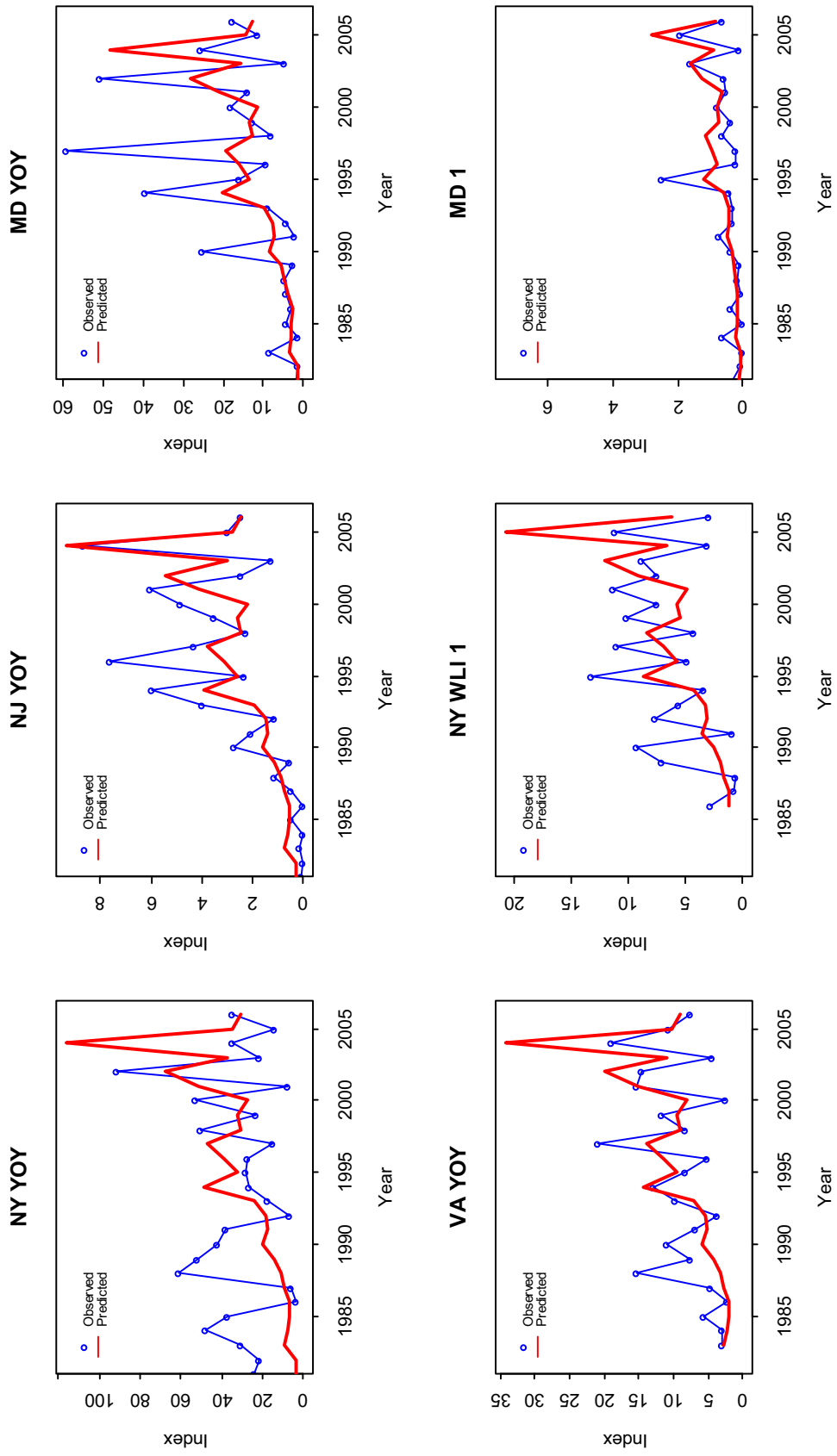


Figure 5. Observed and predicted YOY and Age 1 Indices

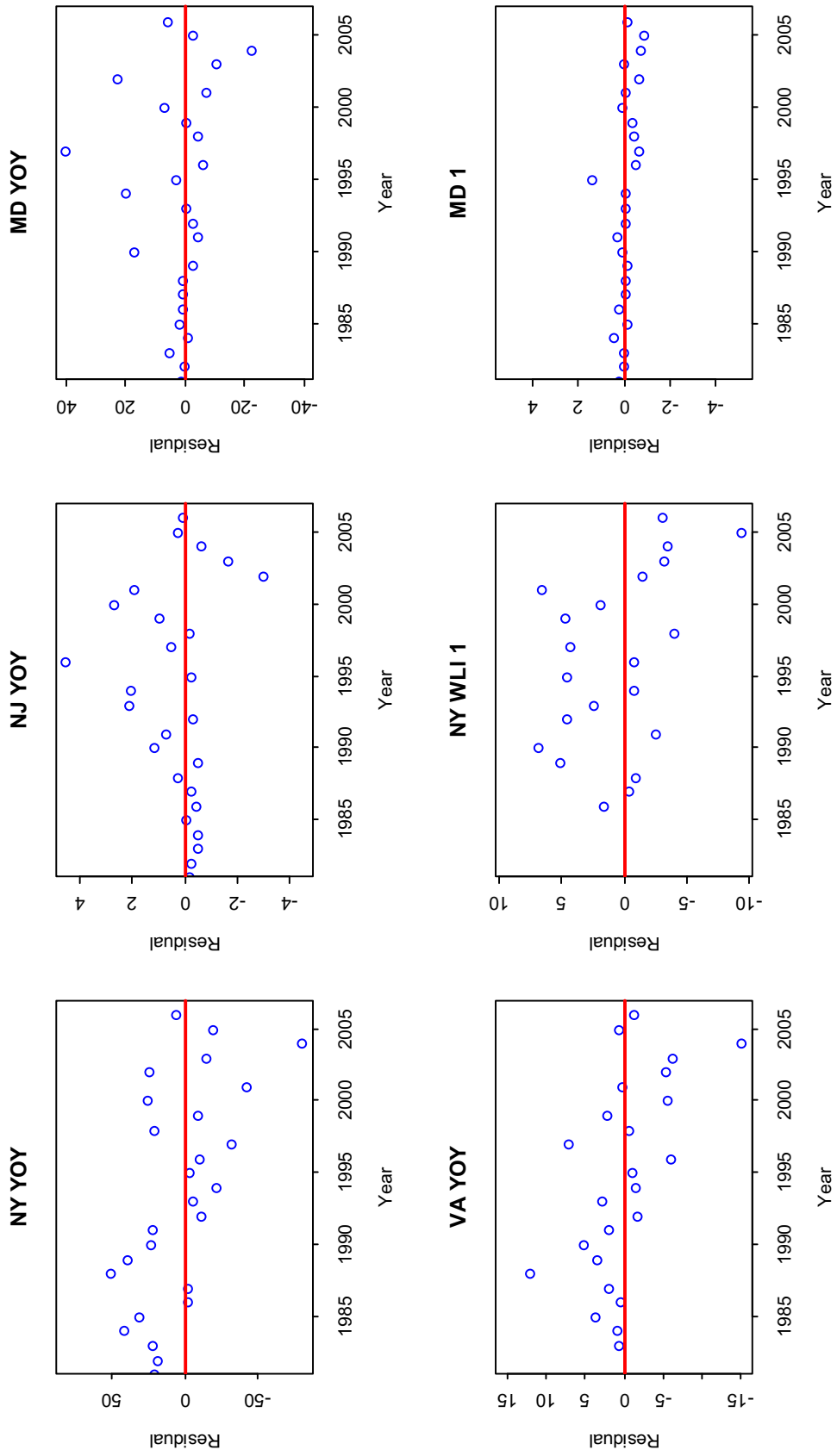


Figure 6. Residuals of YOY and Age 1 Indices

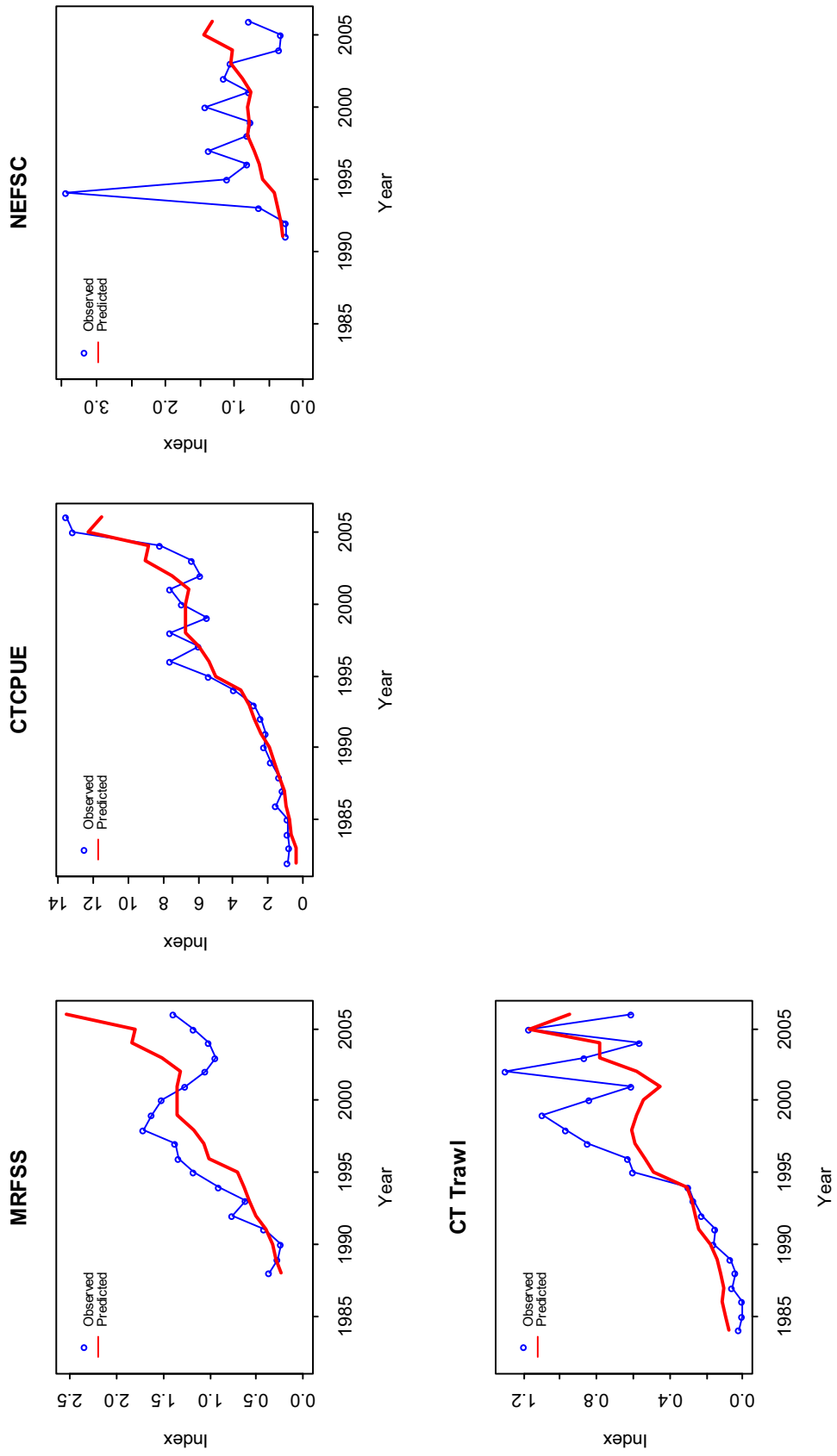


Figure 7. Observed and predicted aggregate indices

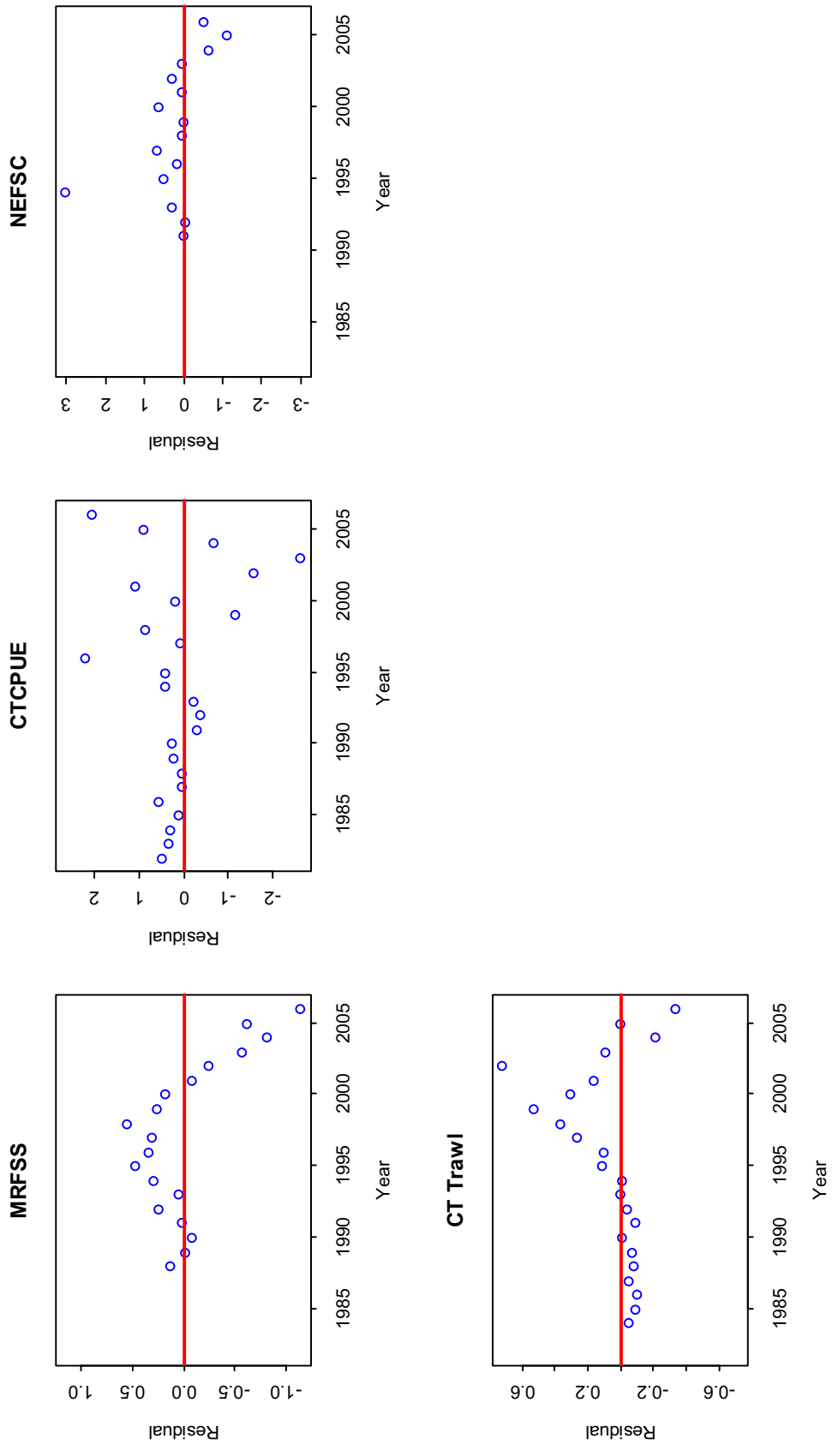


Figure 8. Residuals of aggregates indices



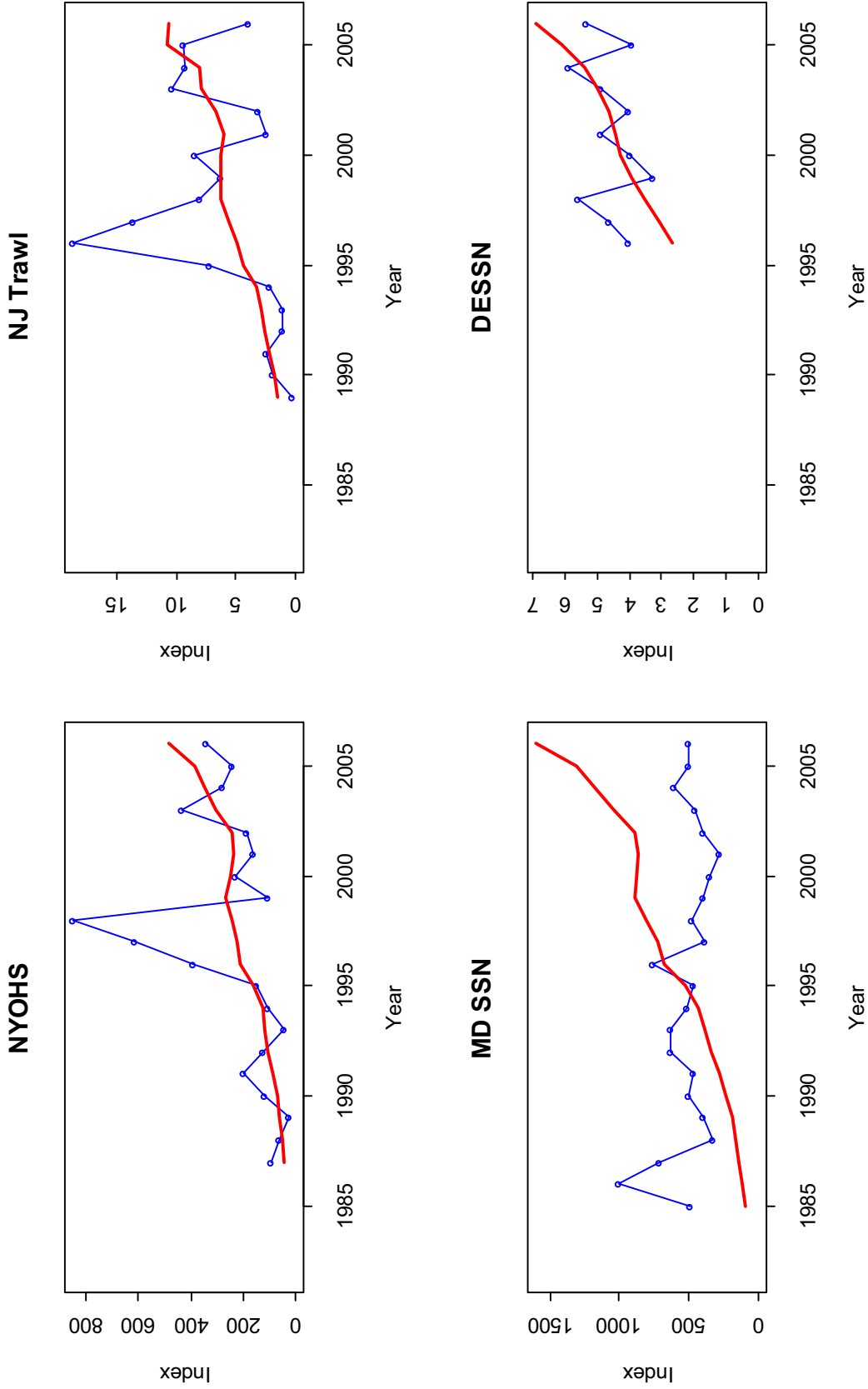


Figure 9. Observed and predicted survey indices with age composition data. Blue=observed, red=predicted

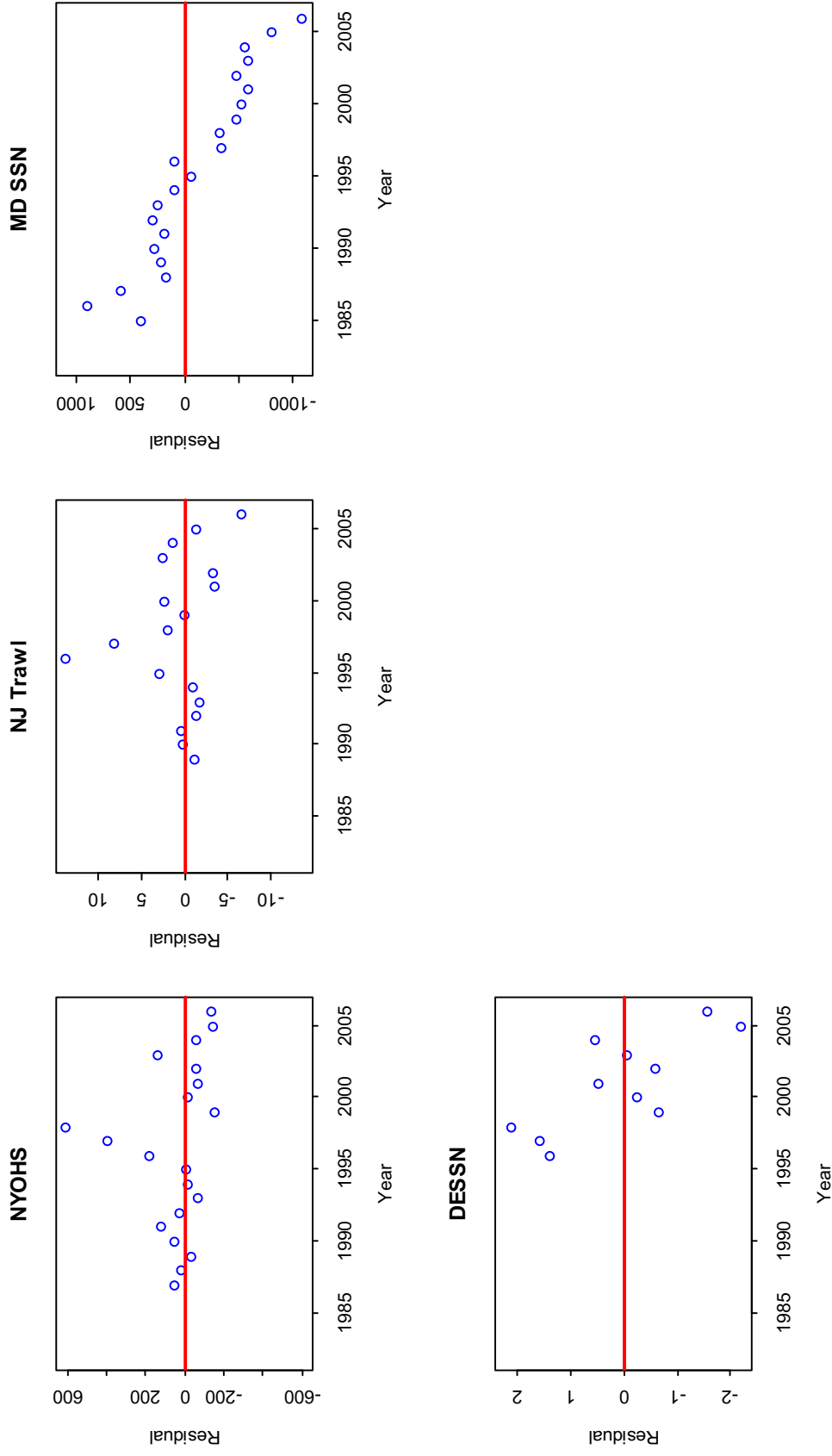


Figure 10. Residuals of survey indices with age composition data

**NYOHS**

○ Obs  
— Pred

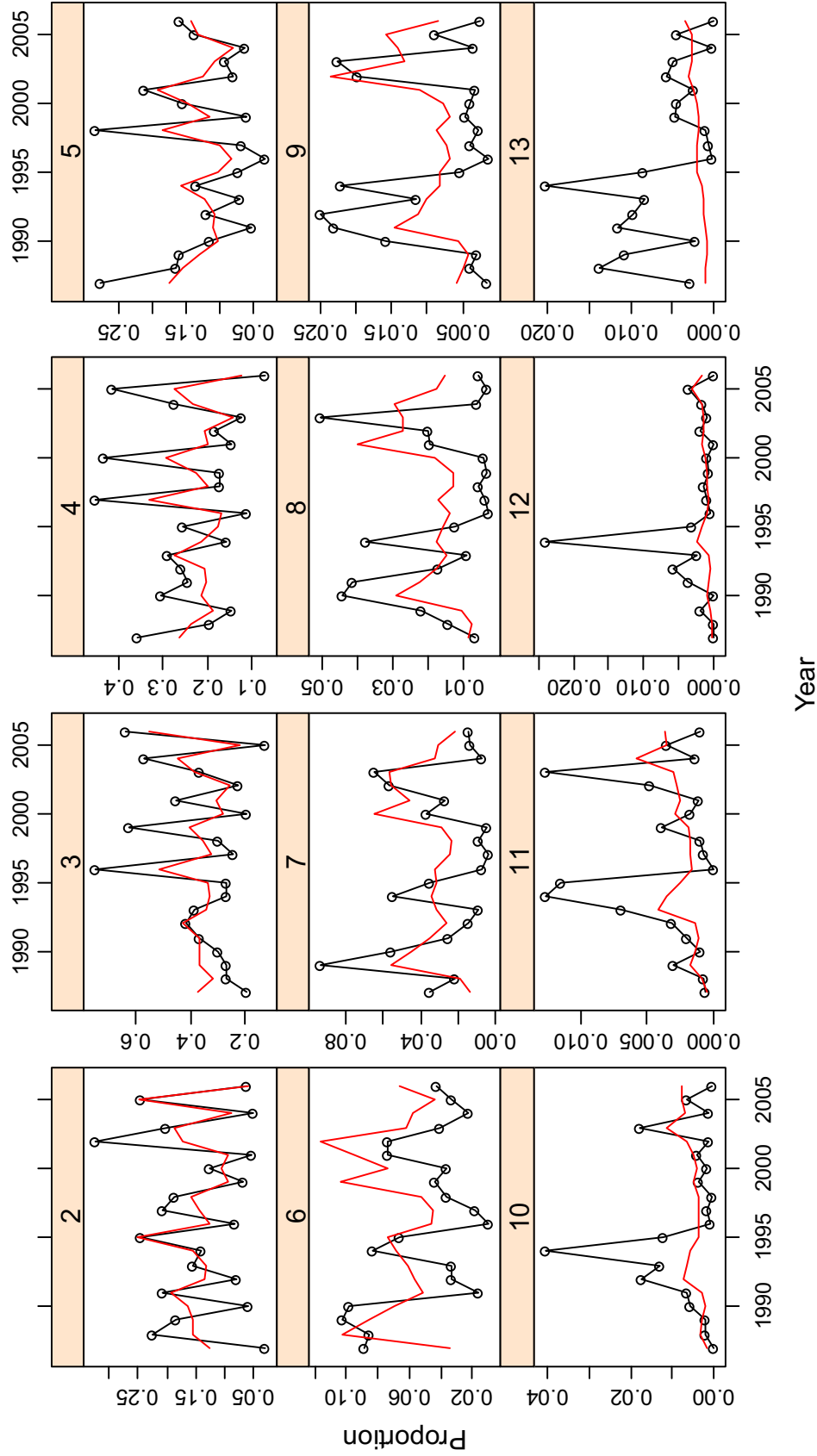


Figure 11. Observed and predicted annual survey age compositions by age for the NY Ocean Haul Seine survey

**NYOHS**

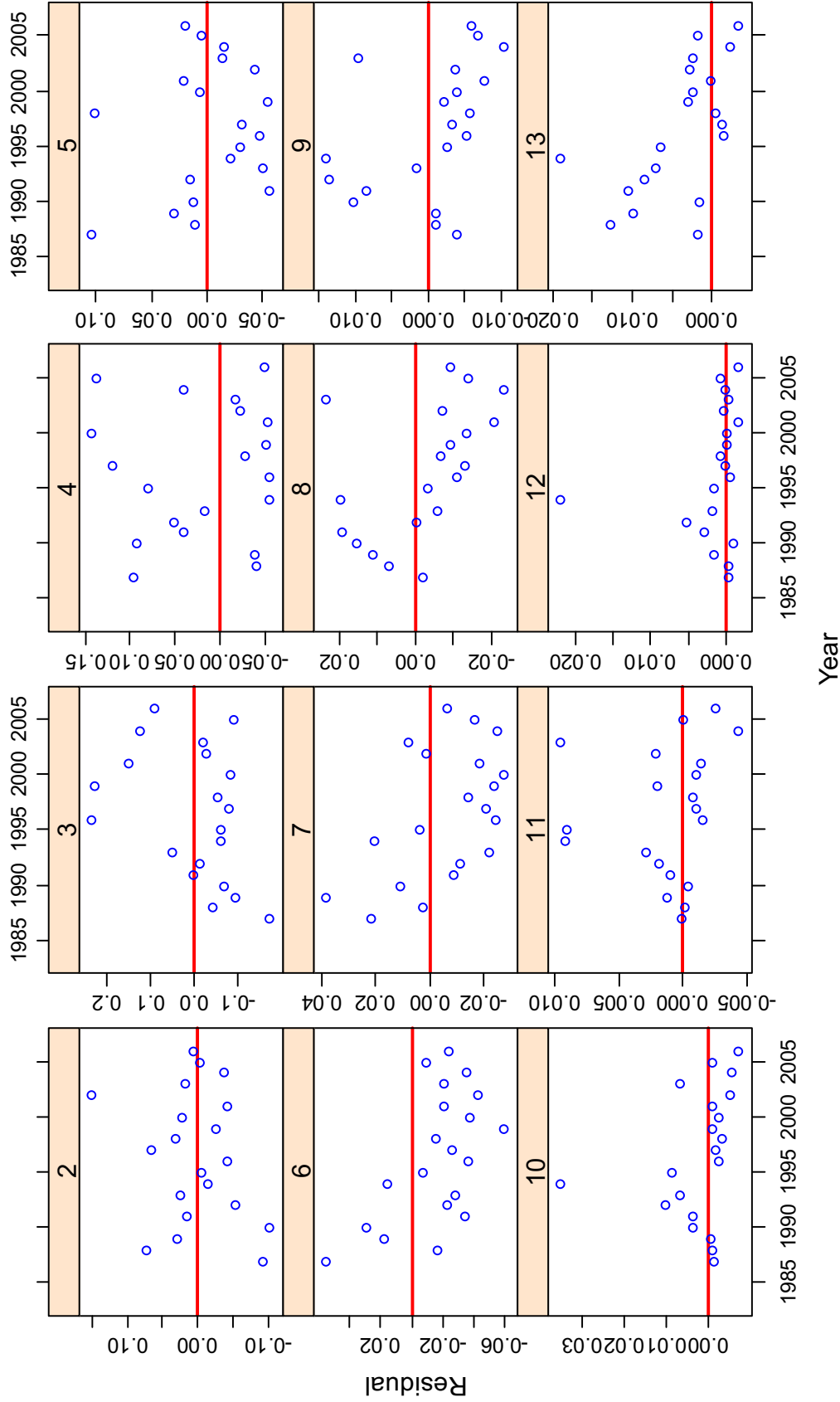


Figure 12. Residuals of annual survey age compositions by age for the NY Ocean Haul Seine survey

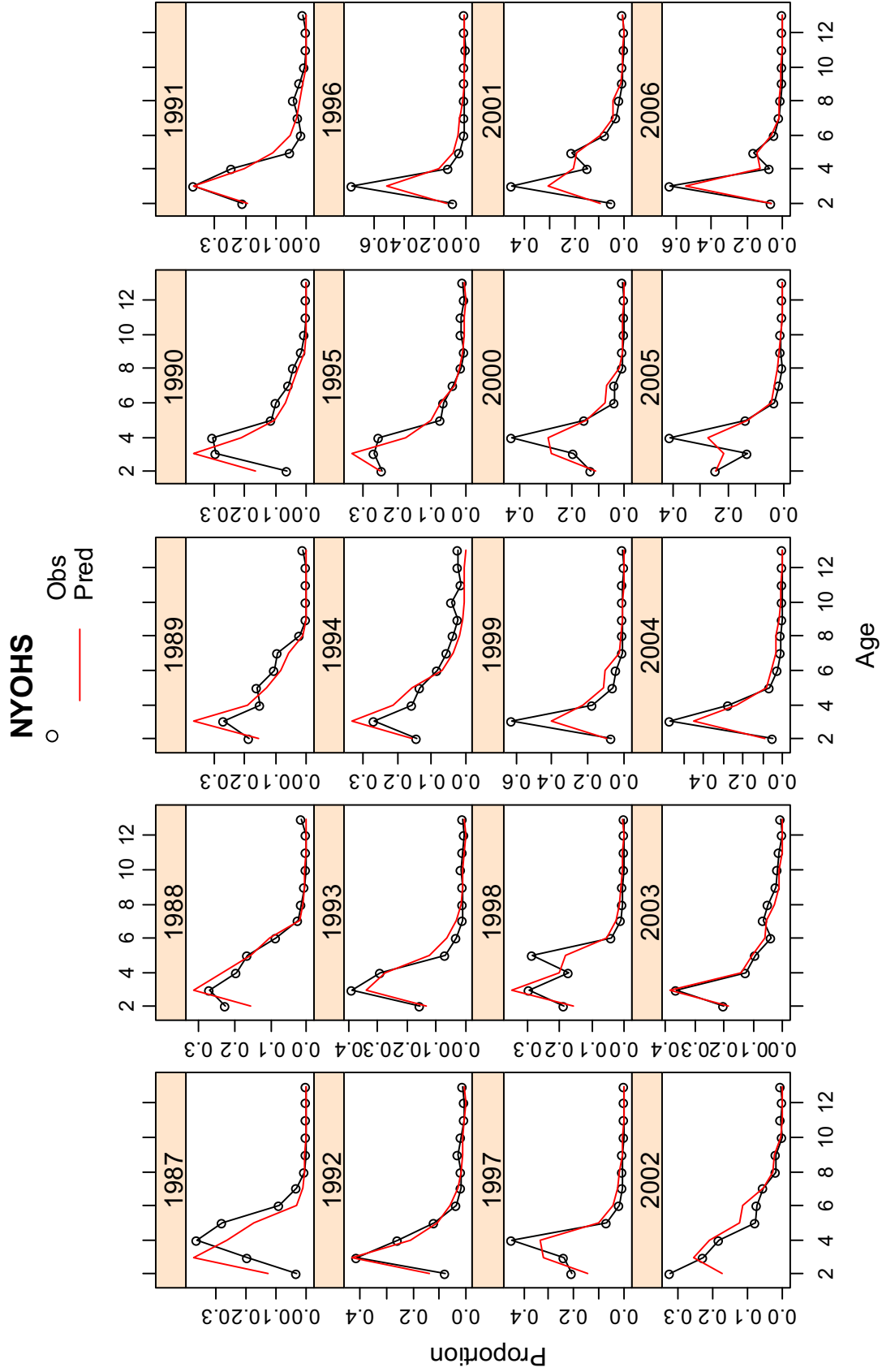


Figure 13. Observed and predicted survey age compositions by year for the NY Ocean Haul Seine survey

**NYOHS**

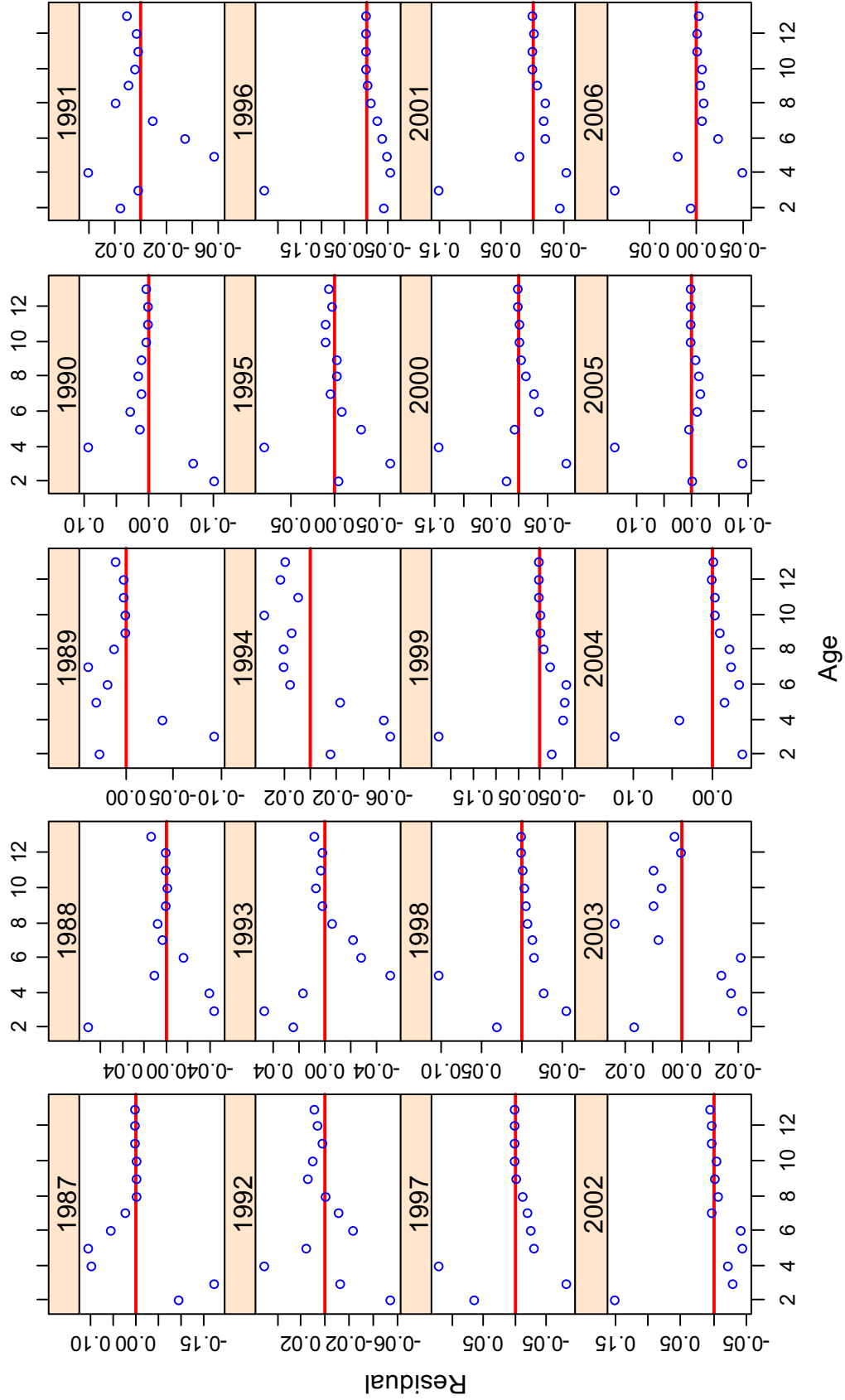


Figure 14. Residuals of survey age compositions by year for the NY Ocean Haul Seine survey

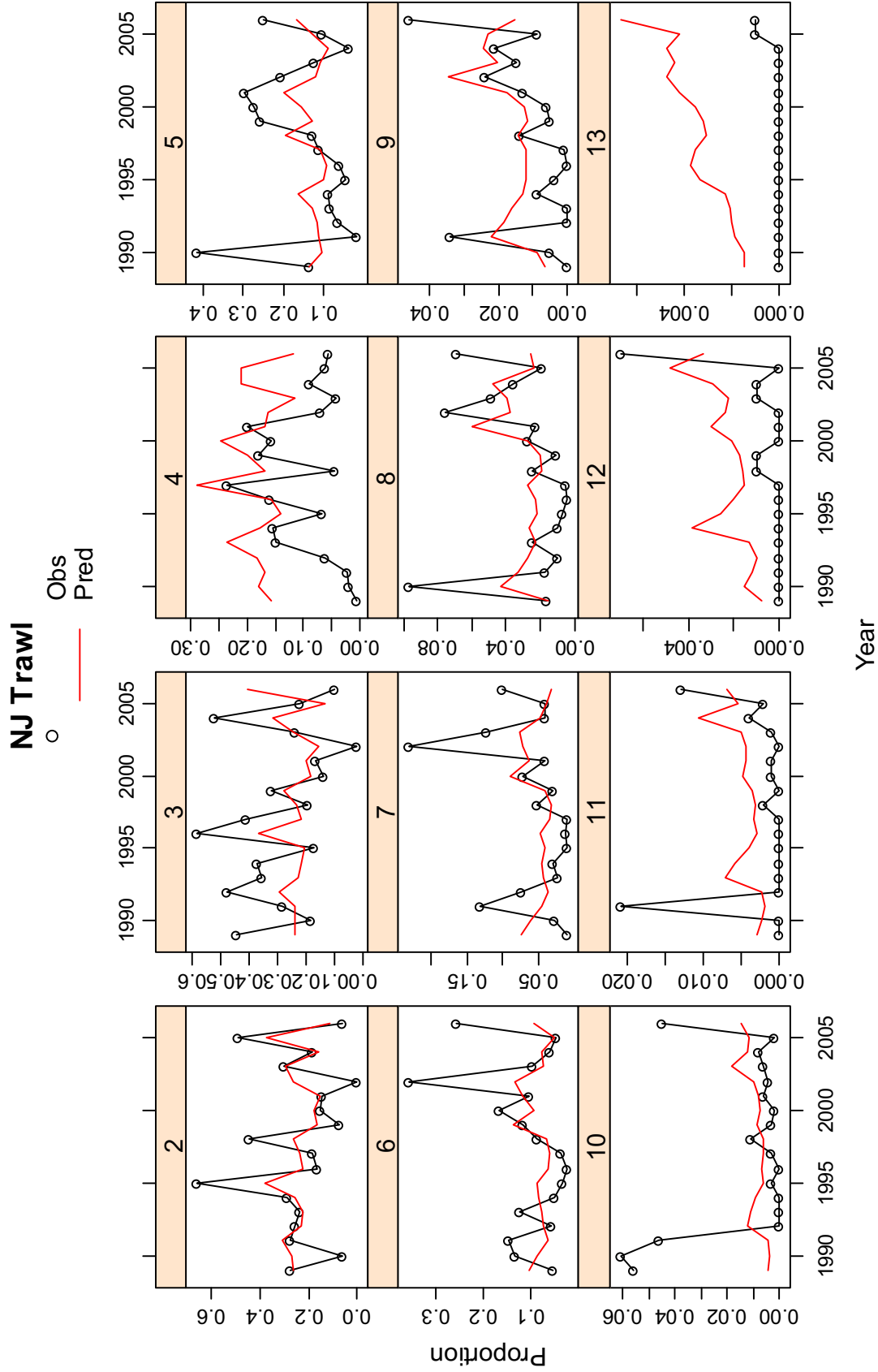


Figure 15. Observed and predicted annual survey age compositions by age for the New Jersey Trawl survey

### NJ Trawl

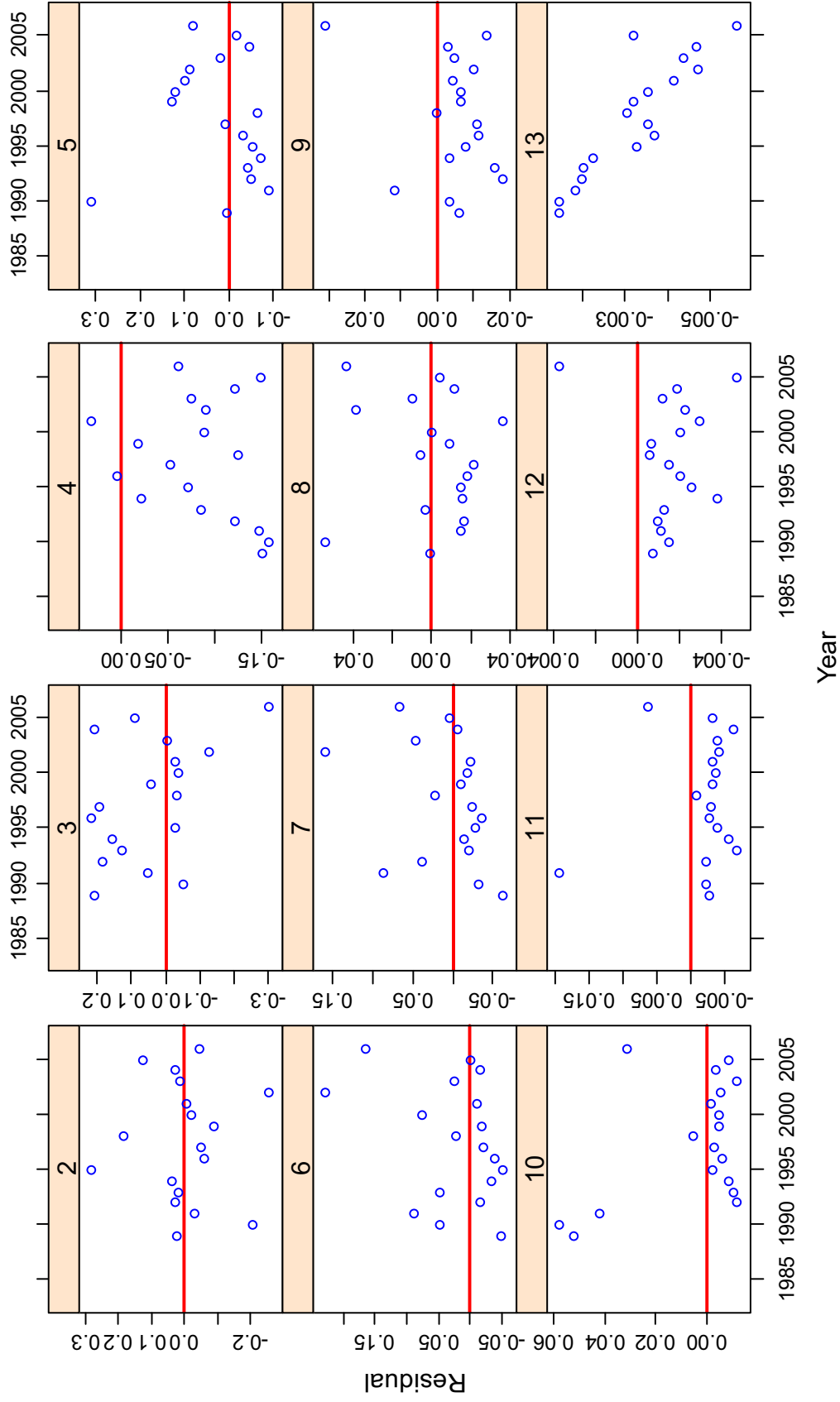


Figure 16. Residuals of annual survey age compositions by age for the New Jersey trawl survey



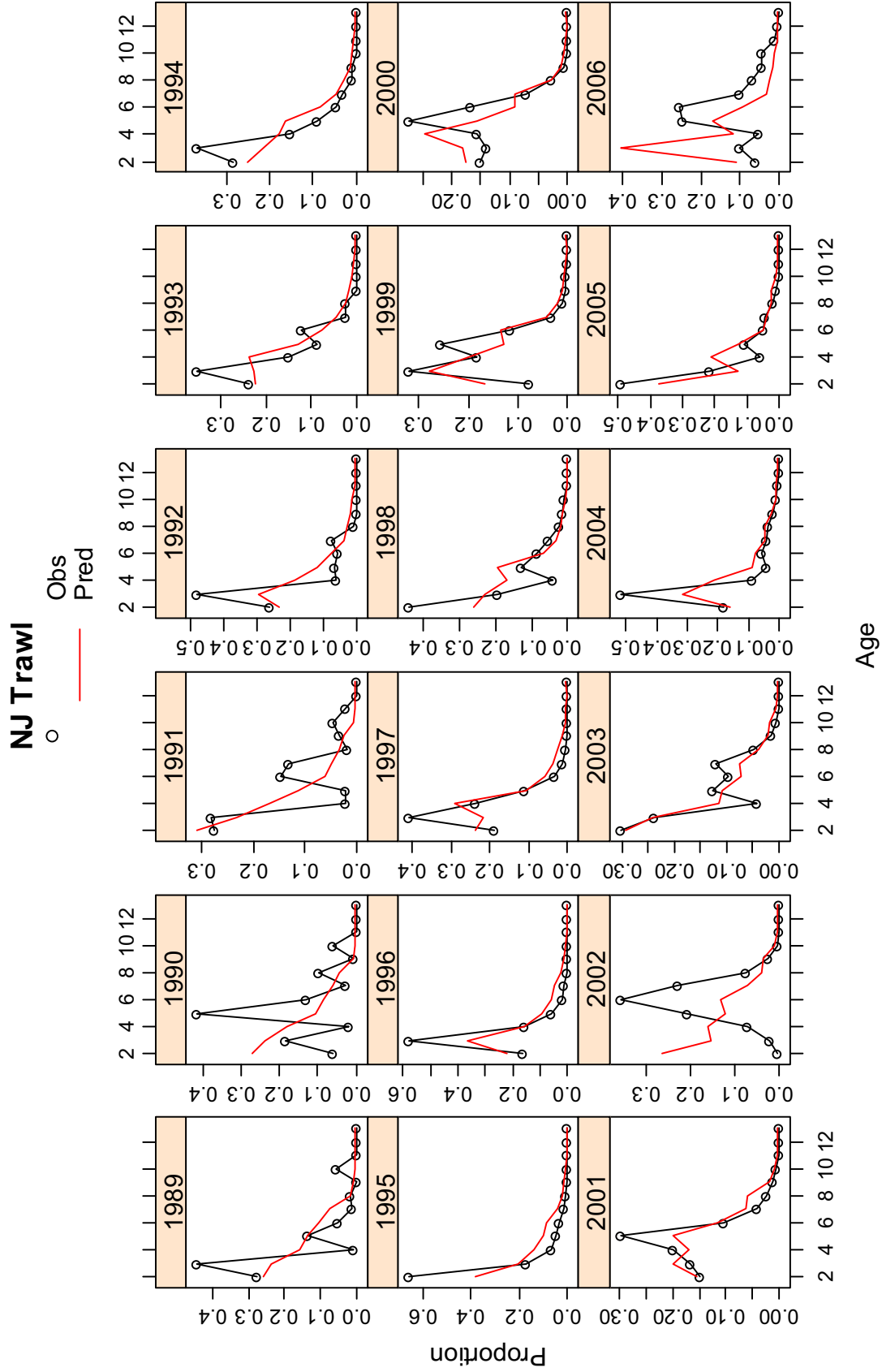


Figure 17. Observed and predicted survey age compositions by year for the New Jersey trawl survey

# NJ Trawl

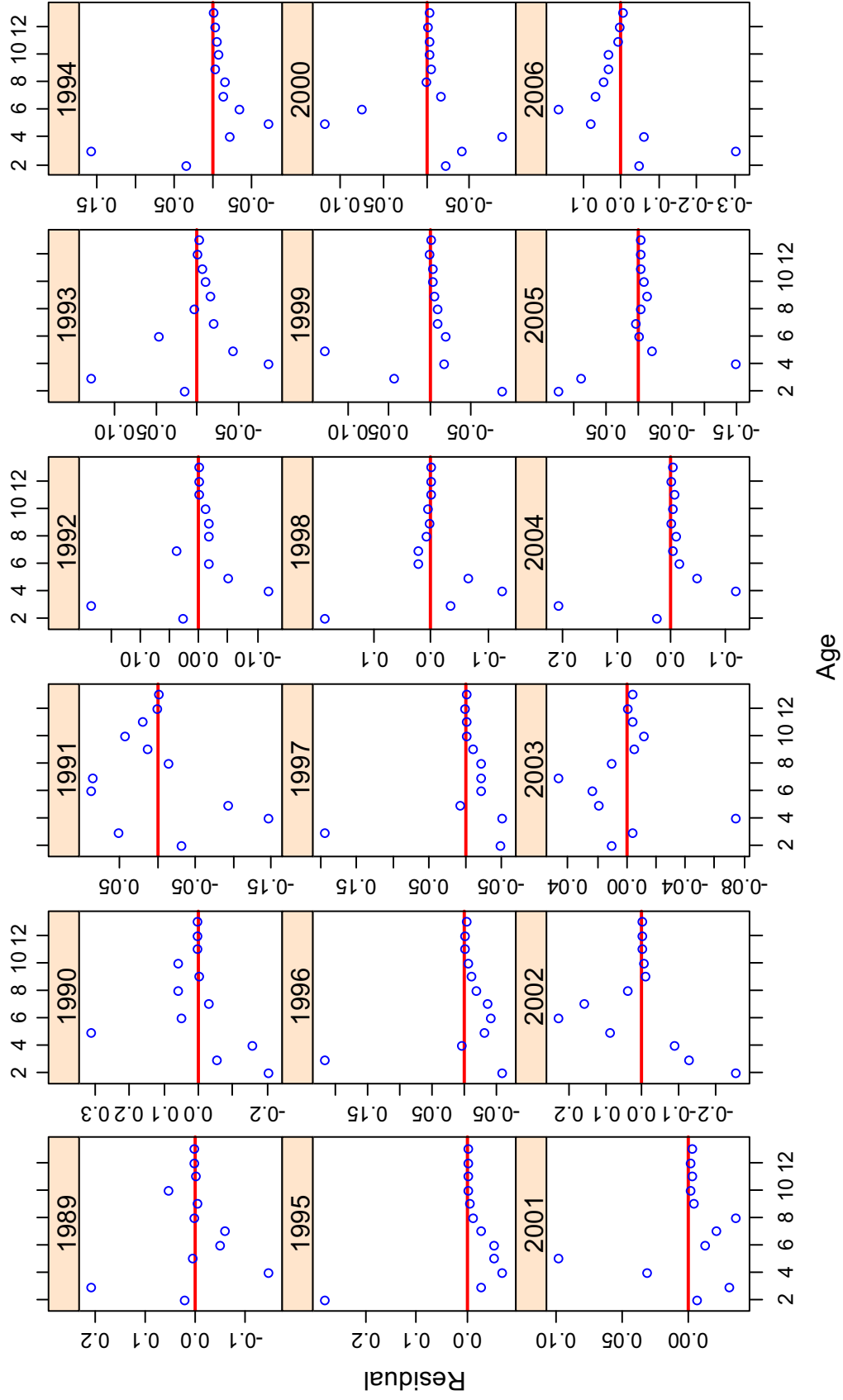


Figure 18. Residuals of survey age compositions by year for the New Jersey trawl survey

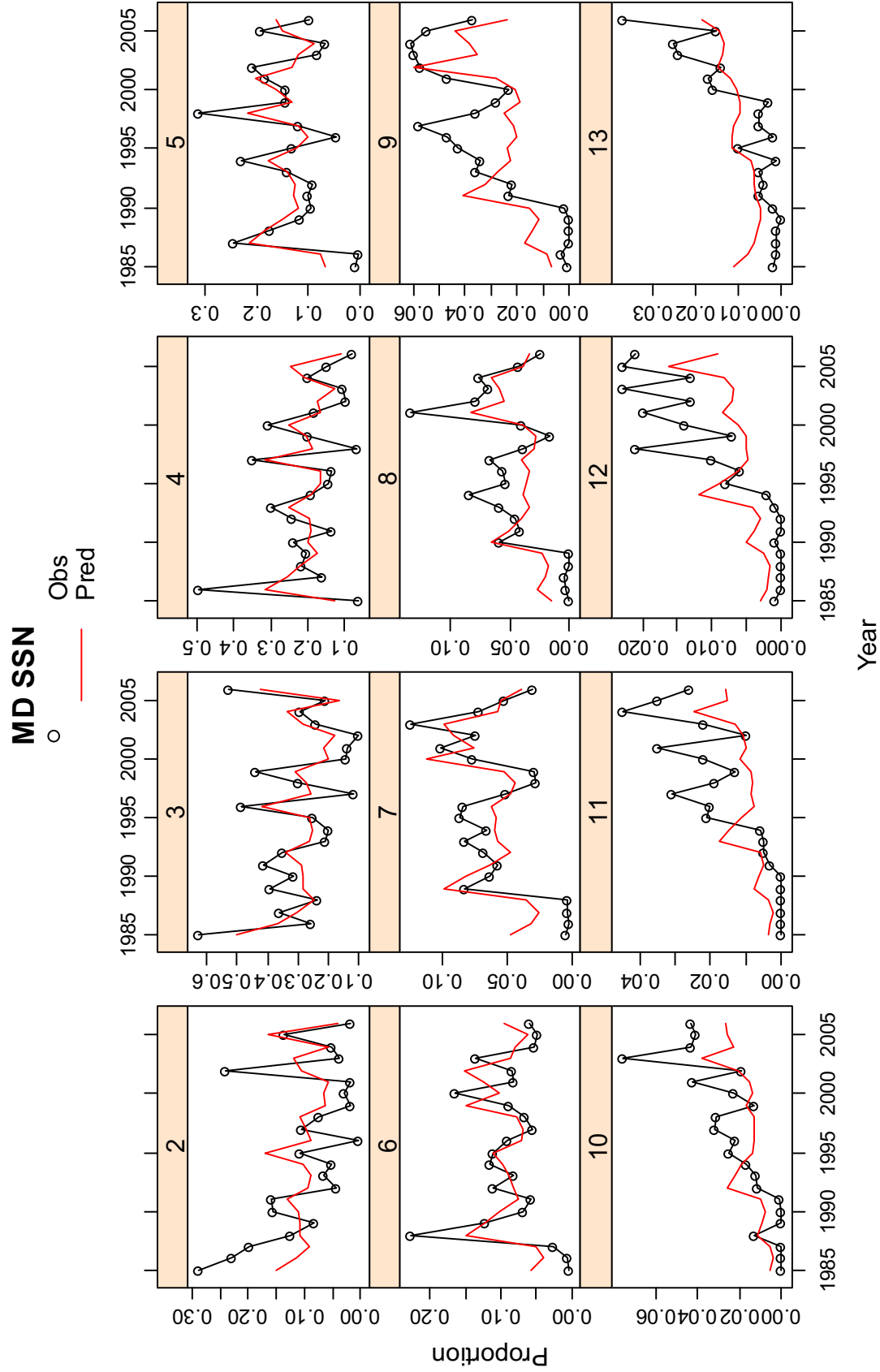


Figure 19. Observed and predicted annual survey age compositions by age for the Maryland gillnet survey

**MD SSN**

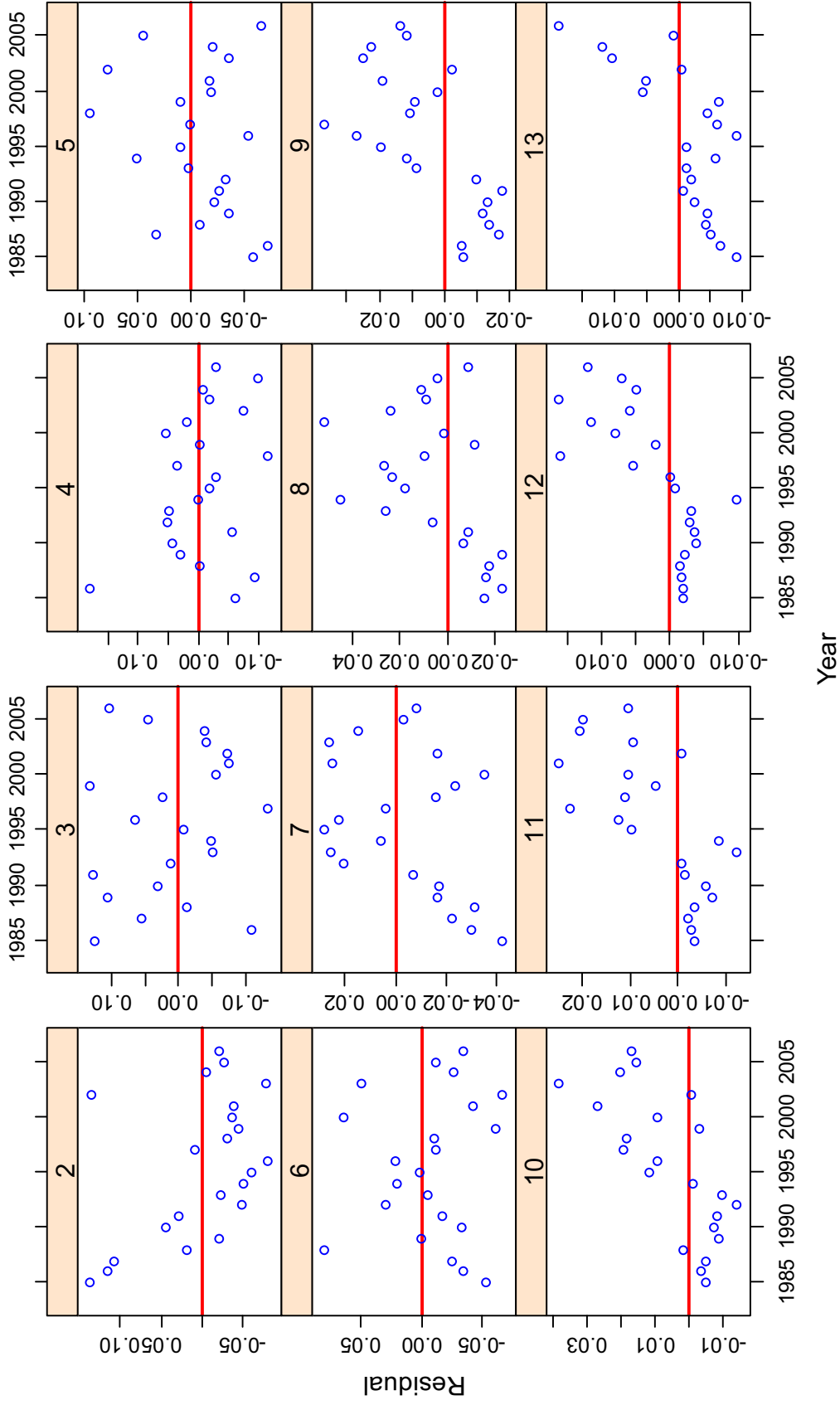


Figure 20. Residuals of annual survey age compositions by age for the Maryland gillnet survey

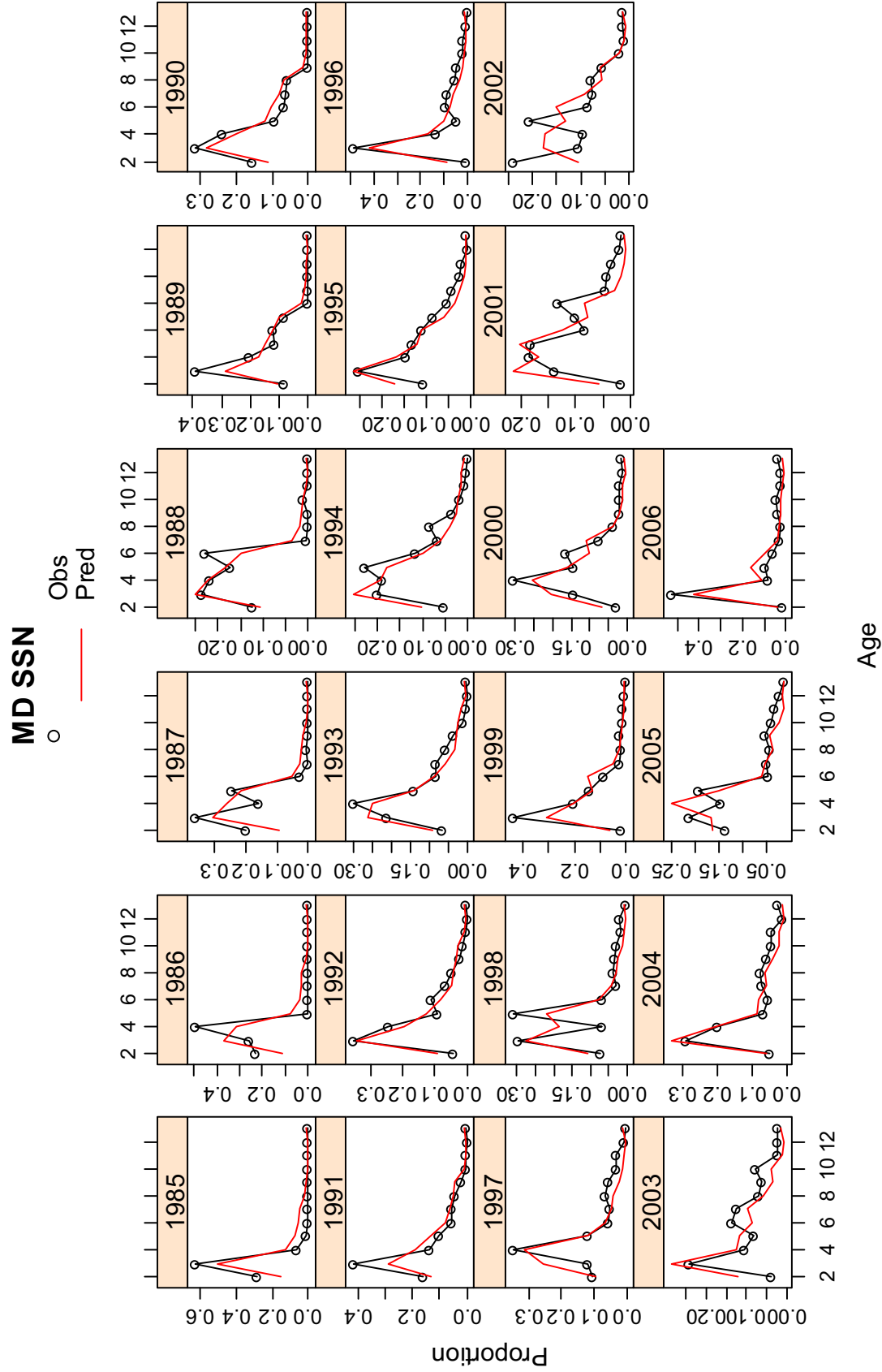


Figure 21. Observed and predicted survey age compositions by year for the Maryland gillnet survey

**MD SSN**

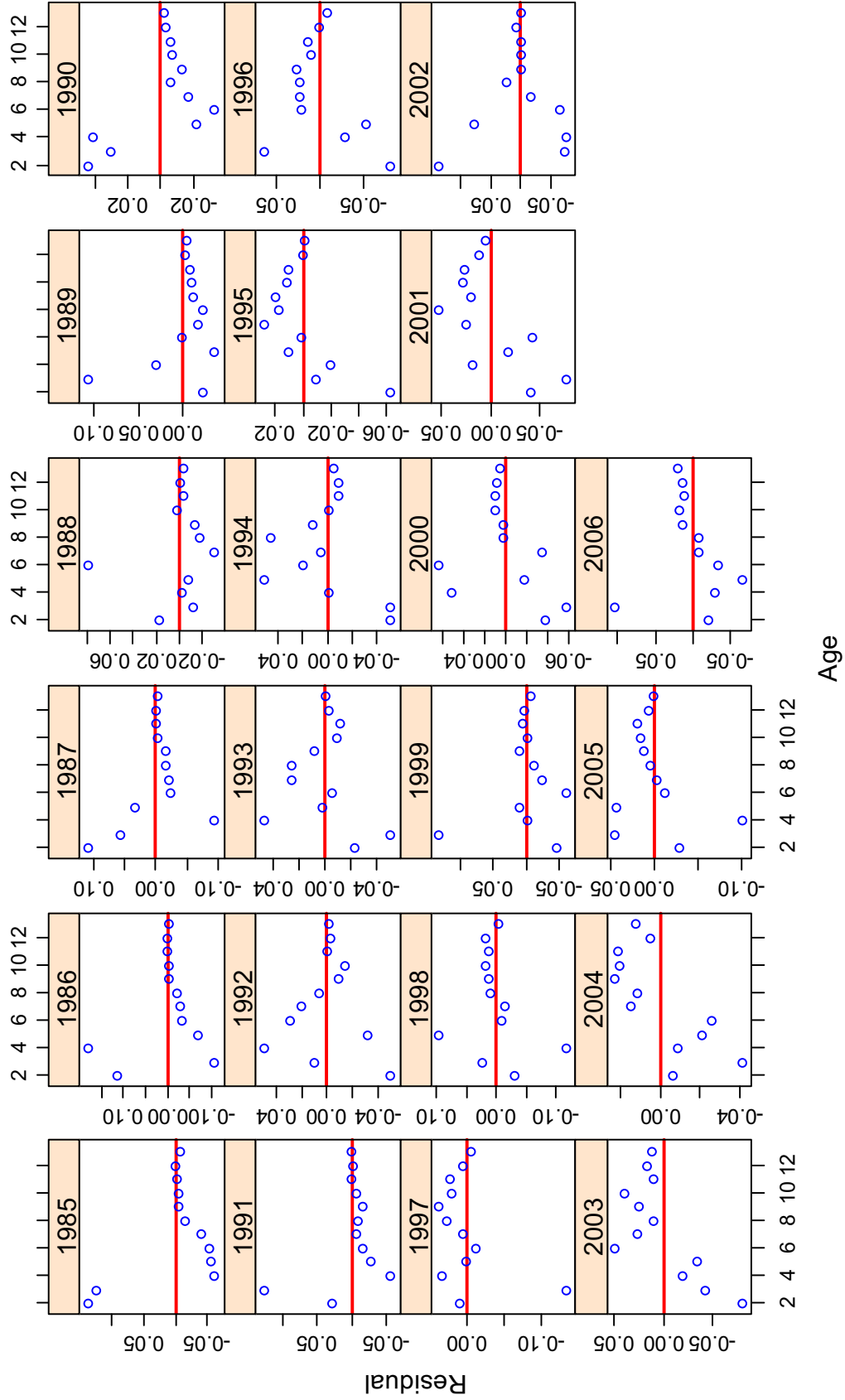


Figure 22. Residuals of survey age compositions by year for the Maryland gillnet survey

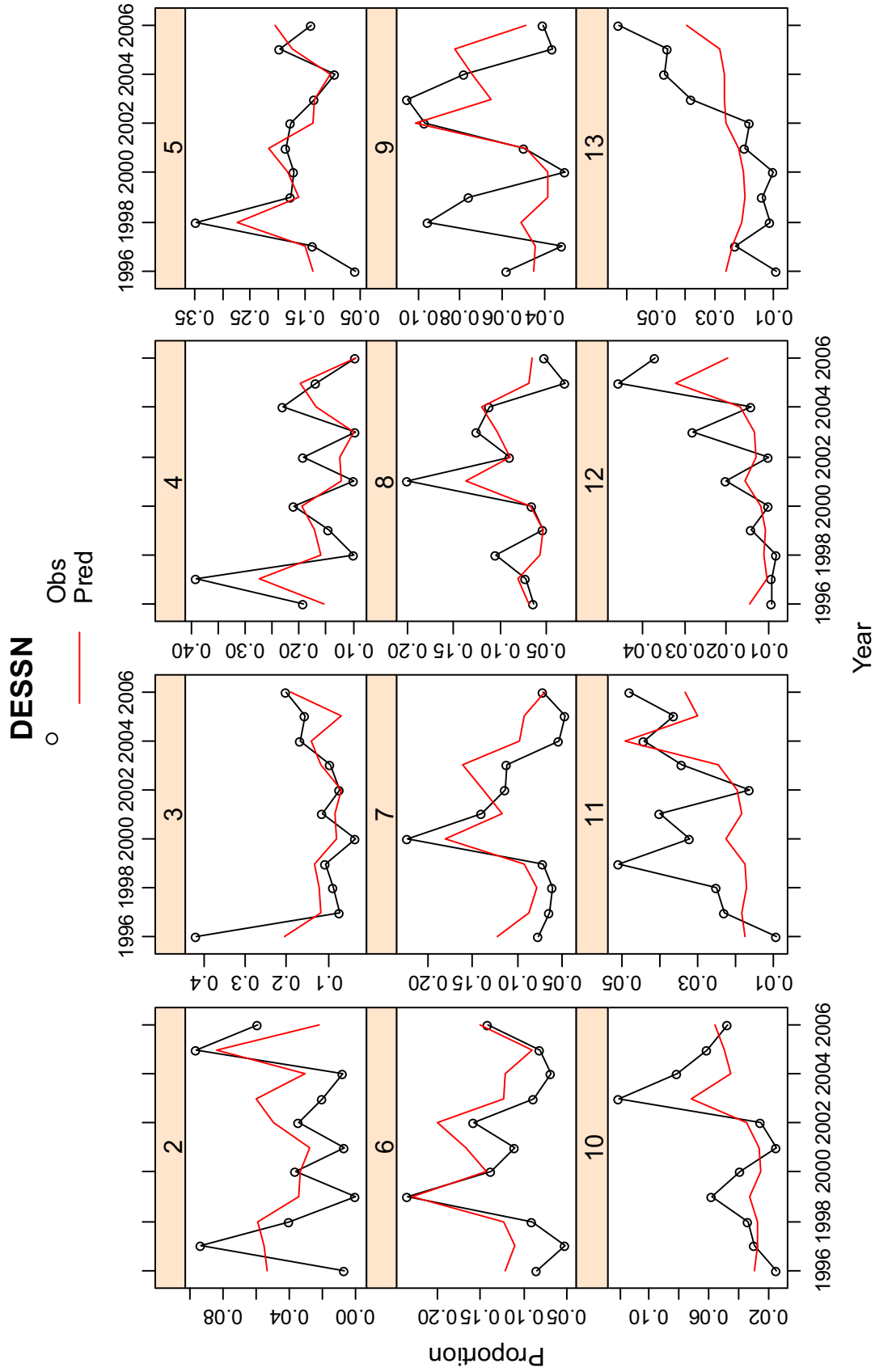


Figure 23. Observed and predicted annual survey age compositions by age for the Delaware electrofishing survey

# DESSN

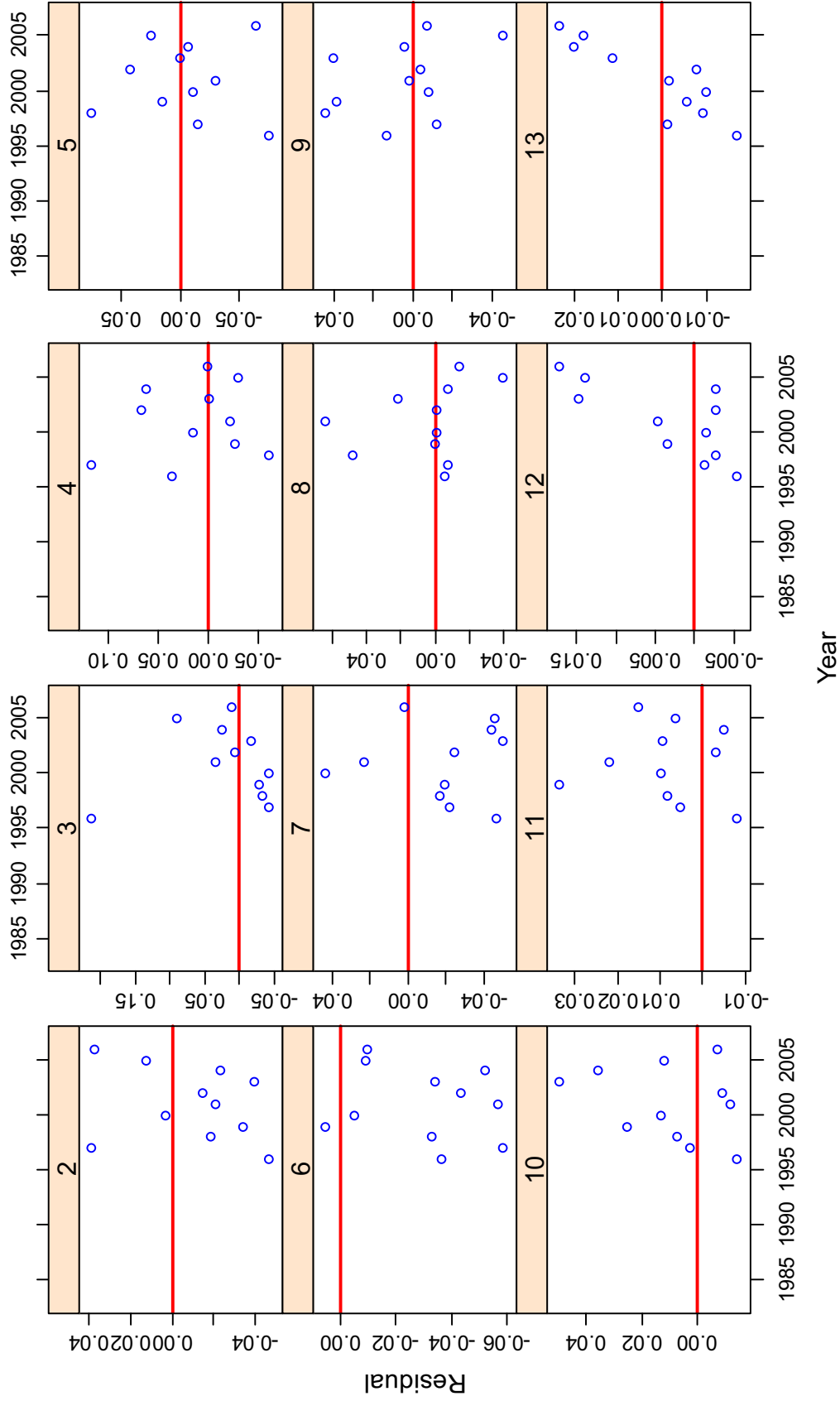


Figure 24. Residuals of annual survey age compositions by age for the Delaware electrofishing survey



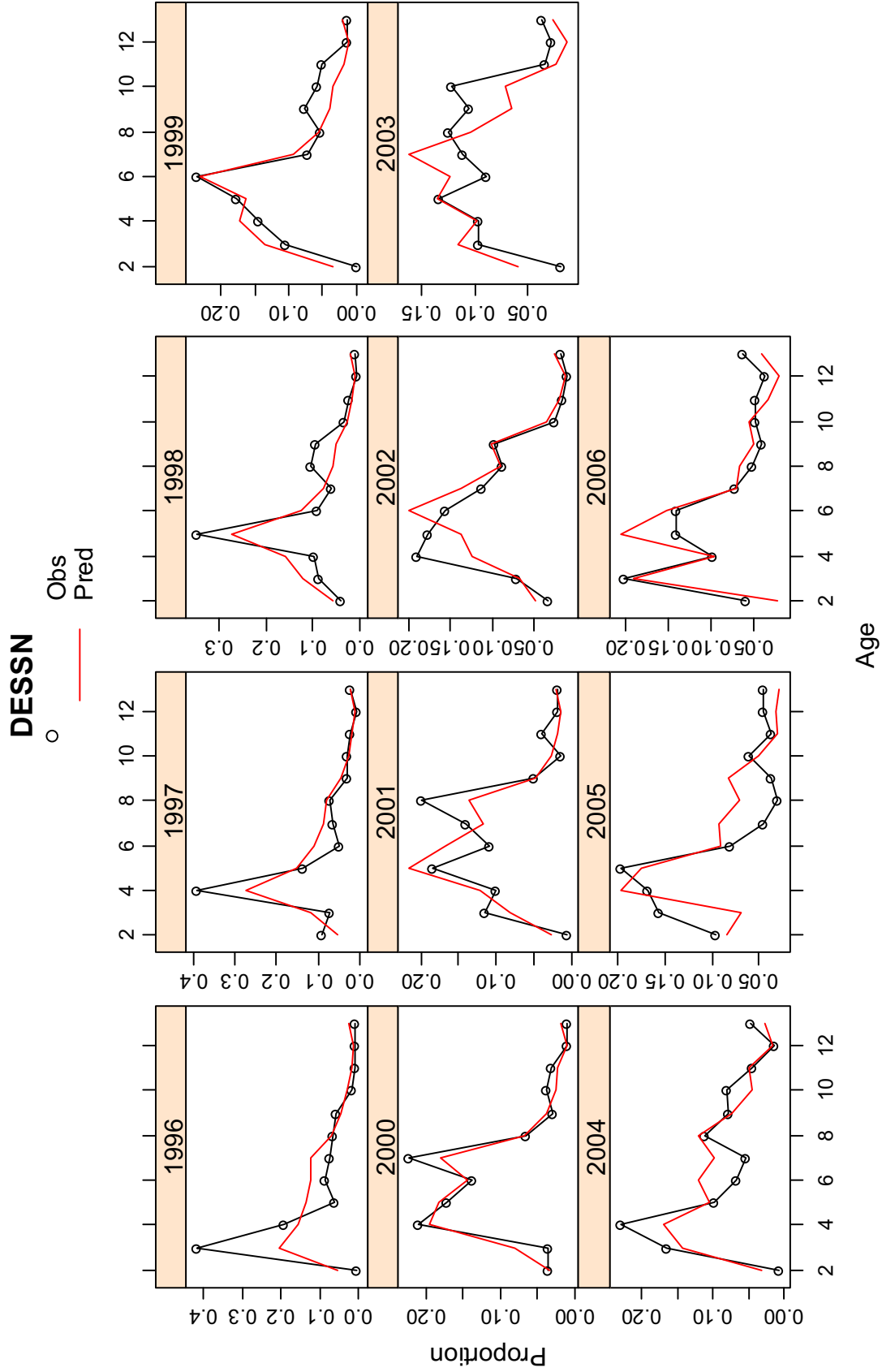


Figure 25. Observed and predicted survey age compositions by year for the Delaware electrofishing survey

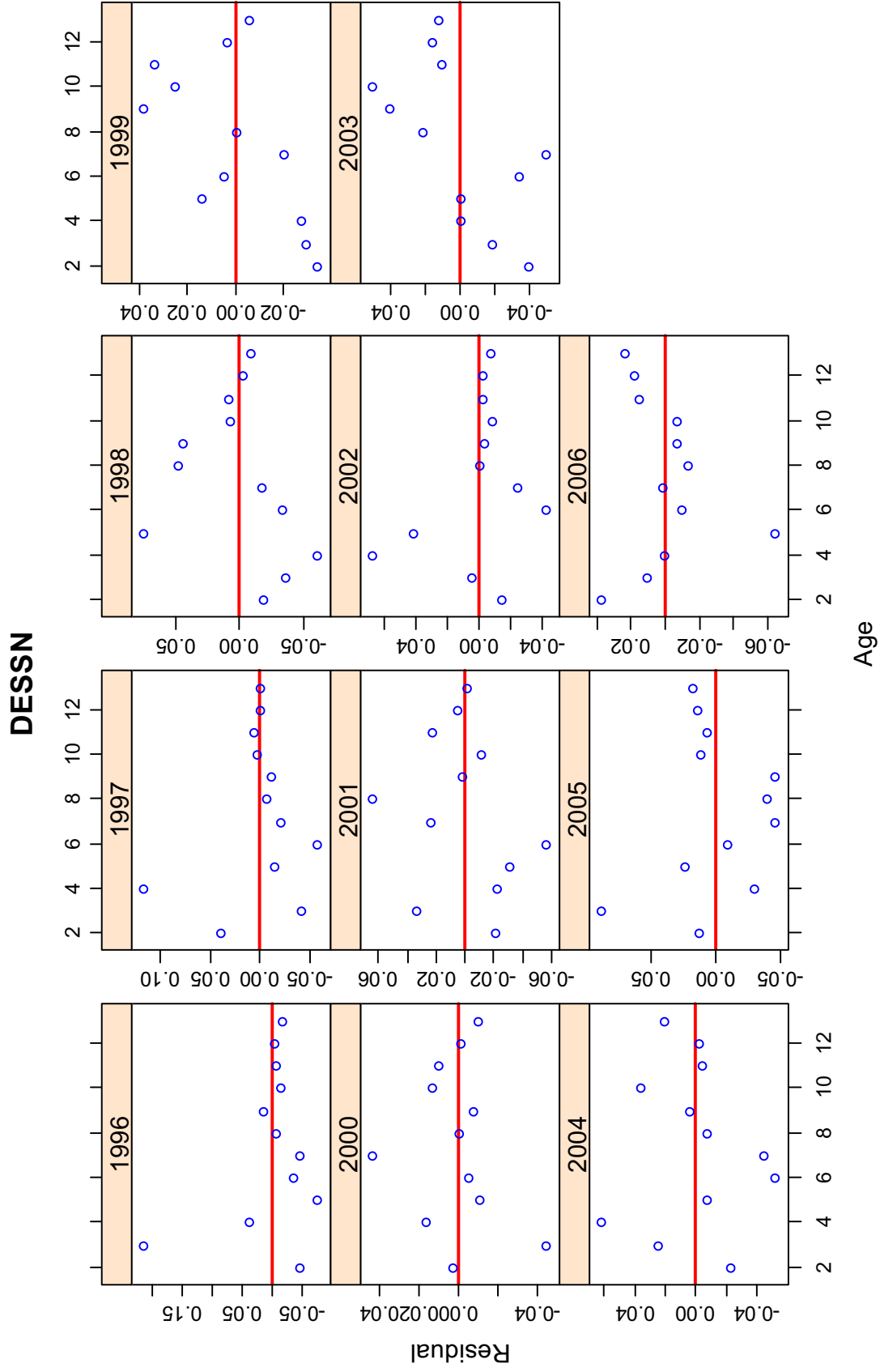


Figure 26. Residuals of survey age compositions by year for the Delaware electrofishing survey

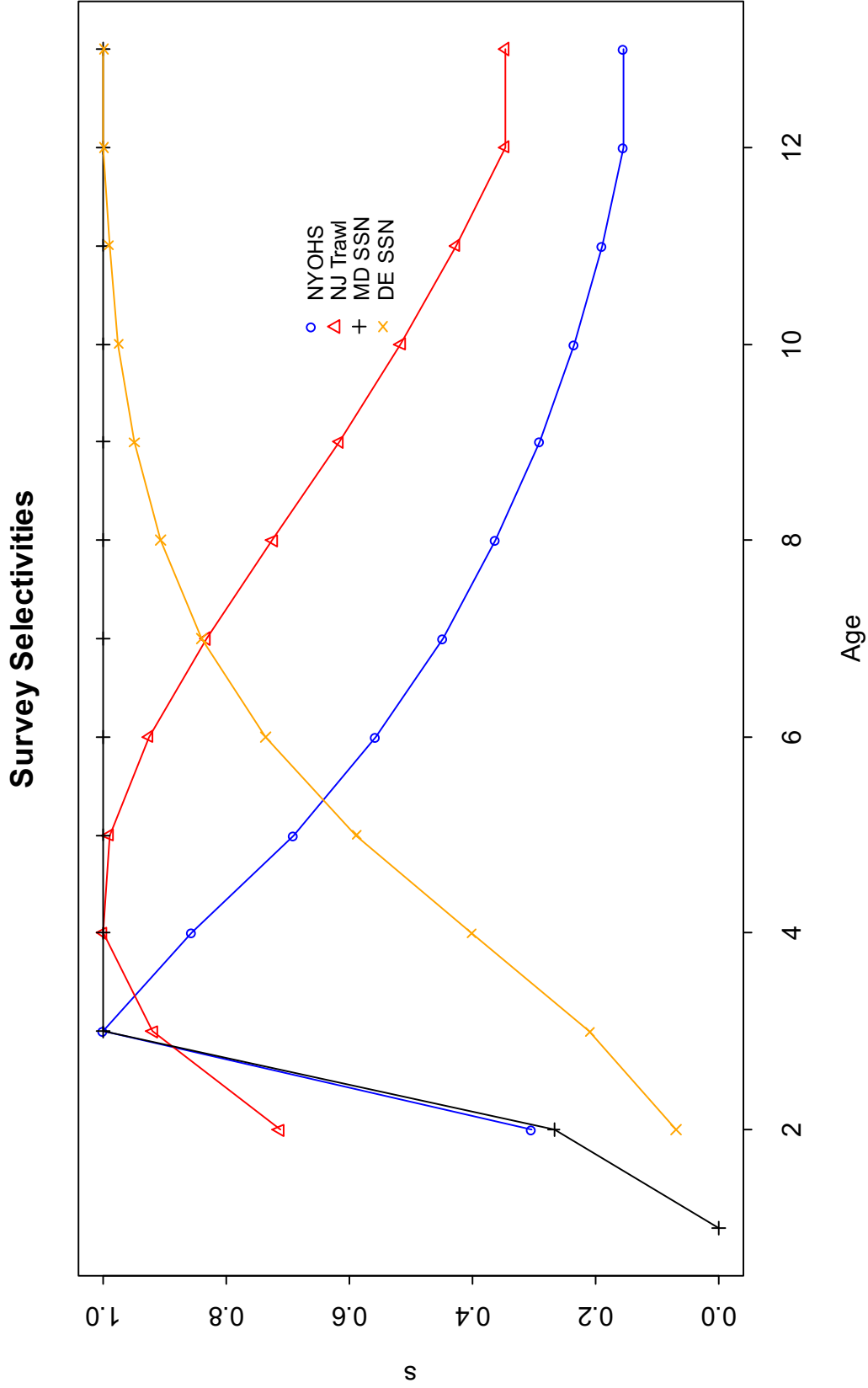


Figure 27. Selectivity patterns estimated for the NYOHS, NJ Trawl, MD gillnet, and DE electrofishing surveys

## DE Harvest

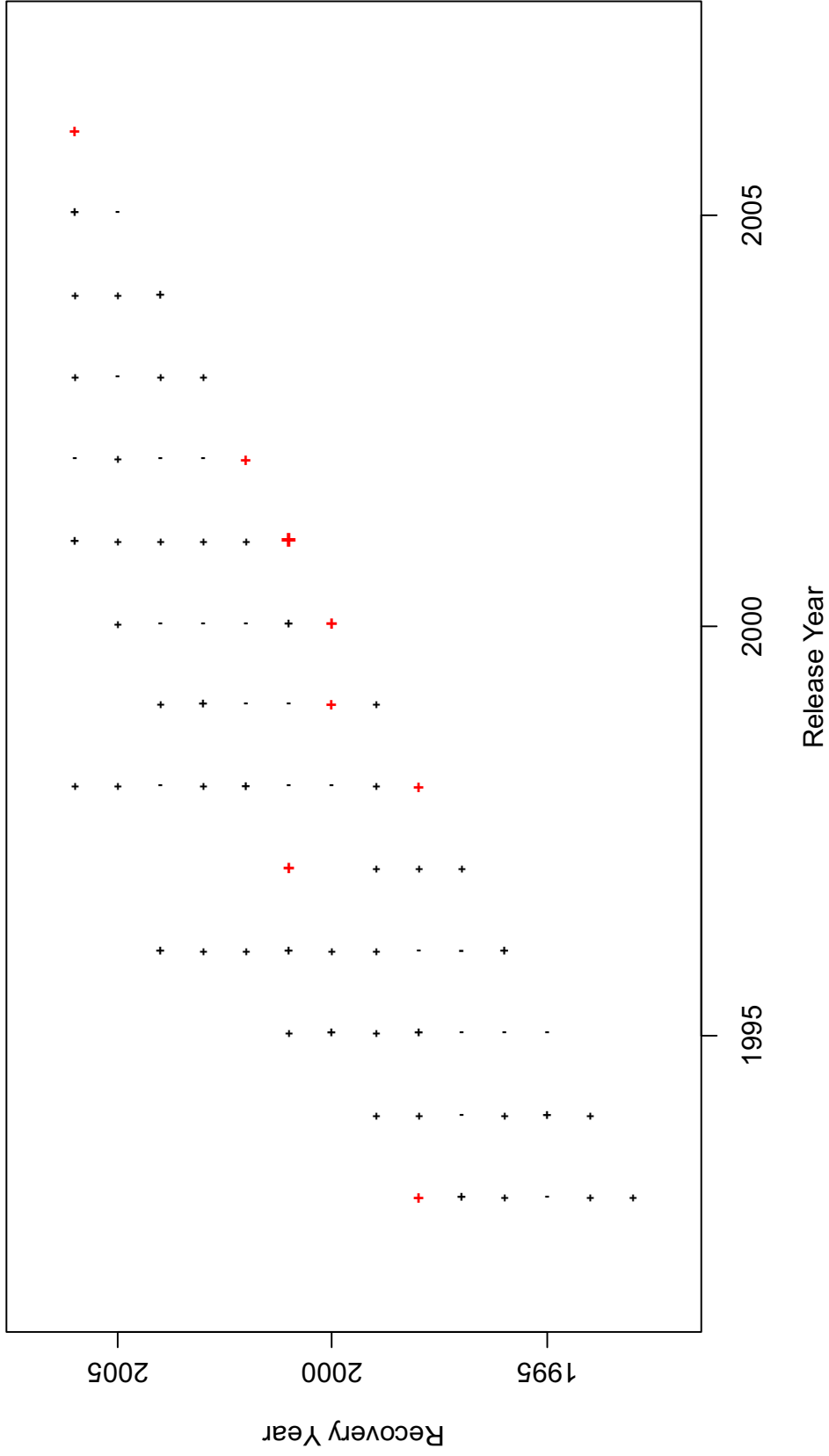


Figure 28. Residuals plots for the harvest and catch/release tag returns. The symbols represent negative (-) or positive (+) residuals, the size of the symbol represents the magnitude of the chi-square value, and the color red signifies that the cell chi-square value is significant at  $p \leq 0.05$ ,  $df=1$ .

# DE Release

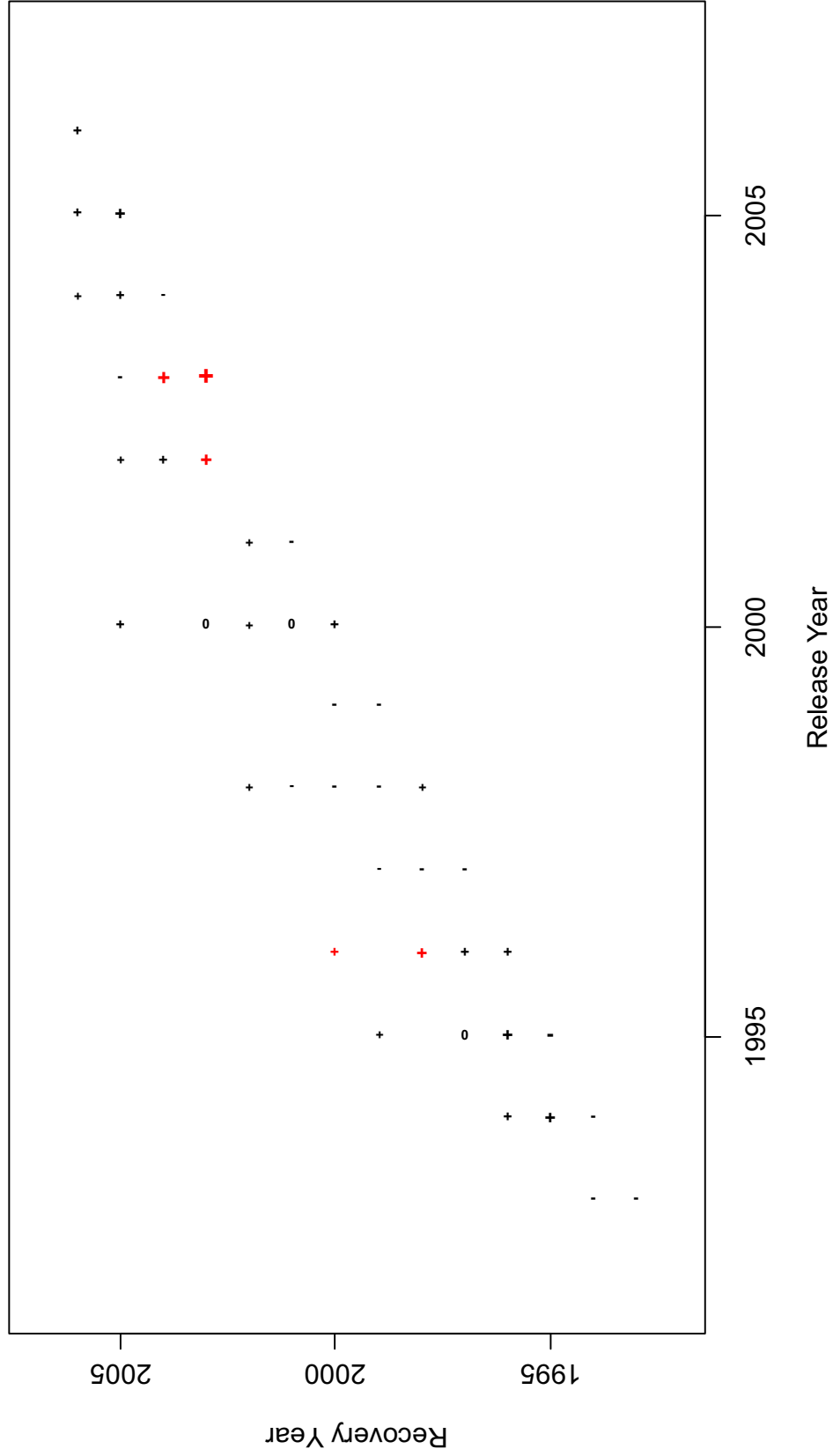


Figure 28 continued.

# HR Harvest

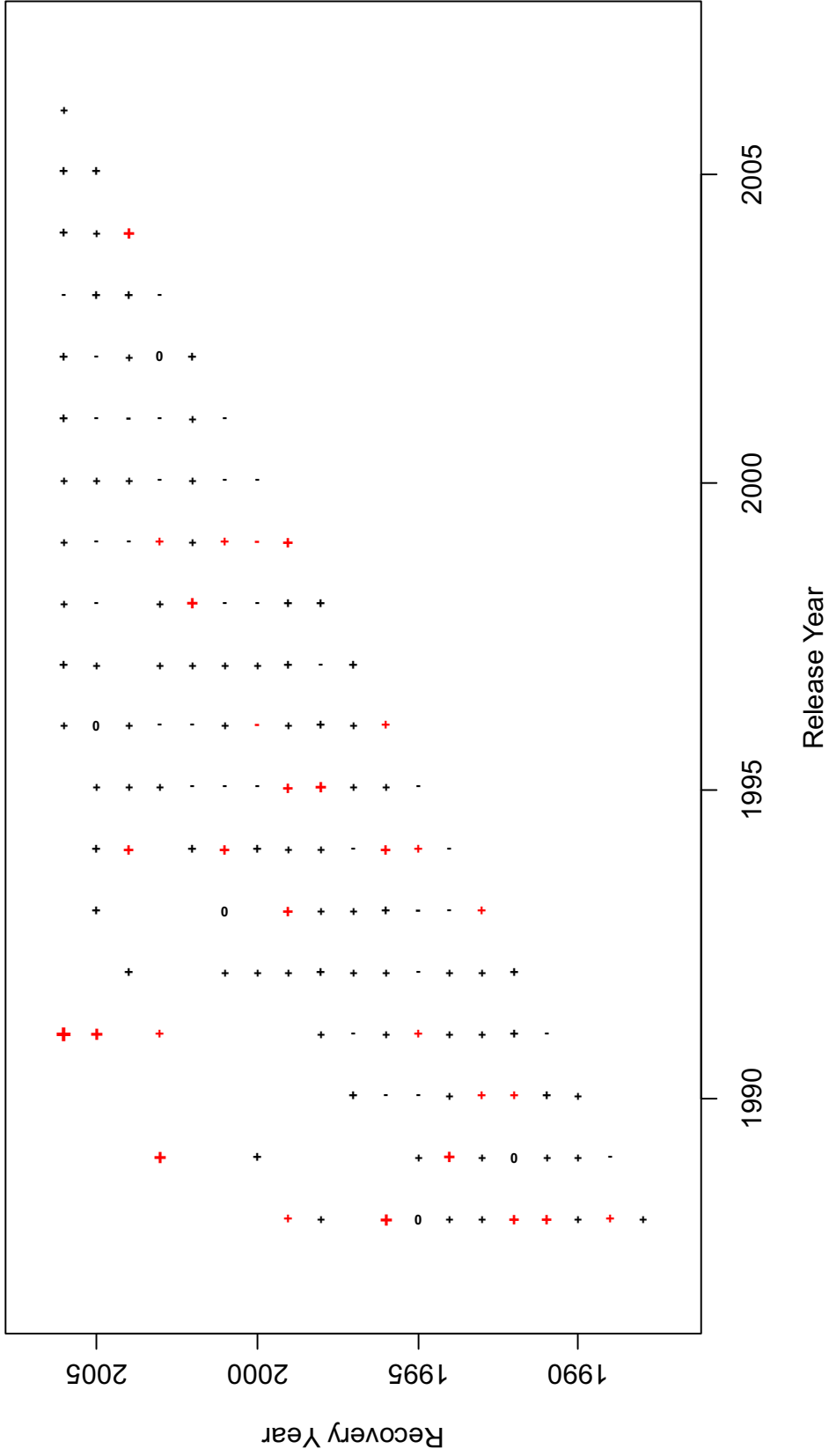


Figure 28 continued.

# HR Release

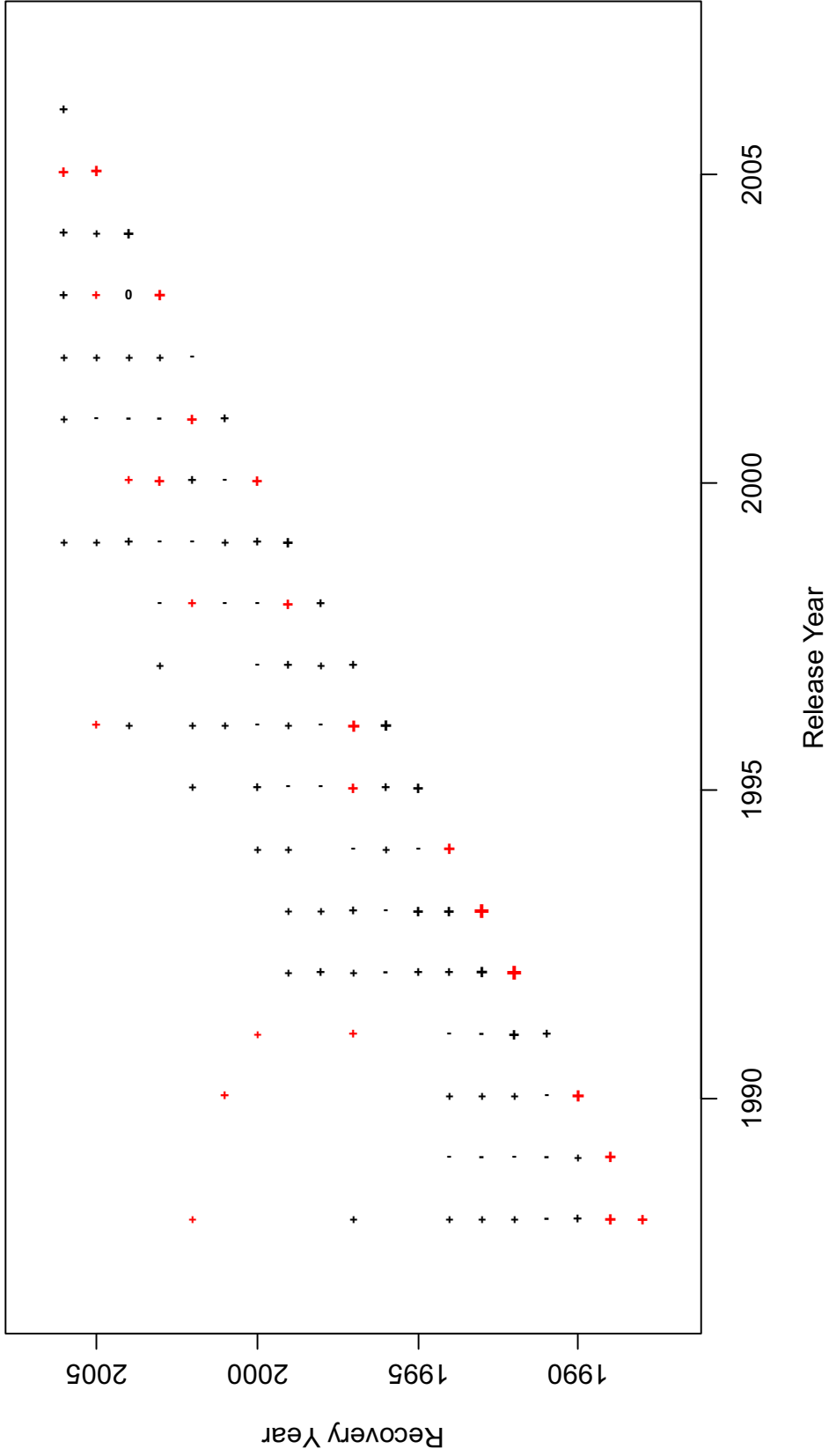


Figure 28 continued.

# MA Harvest

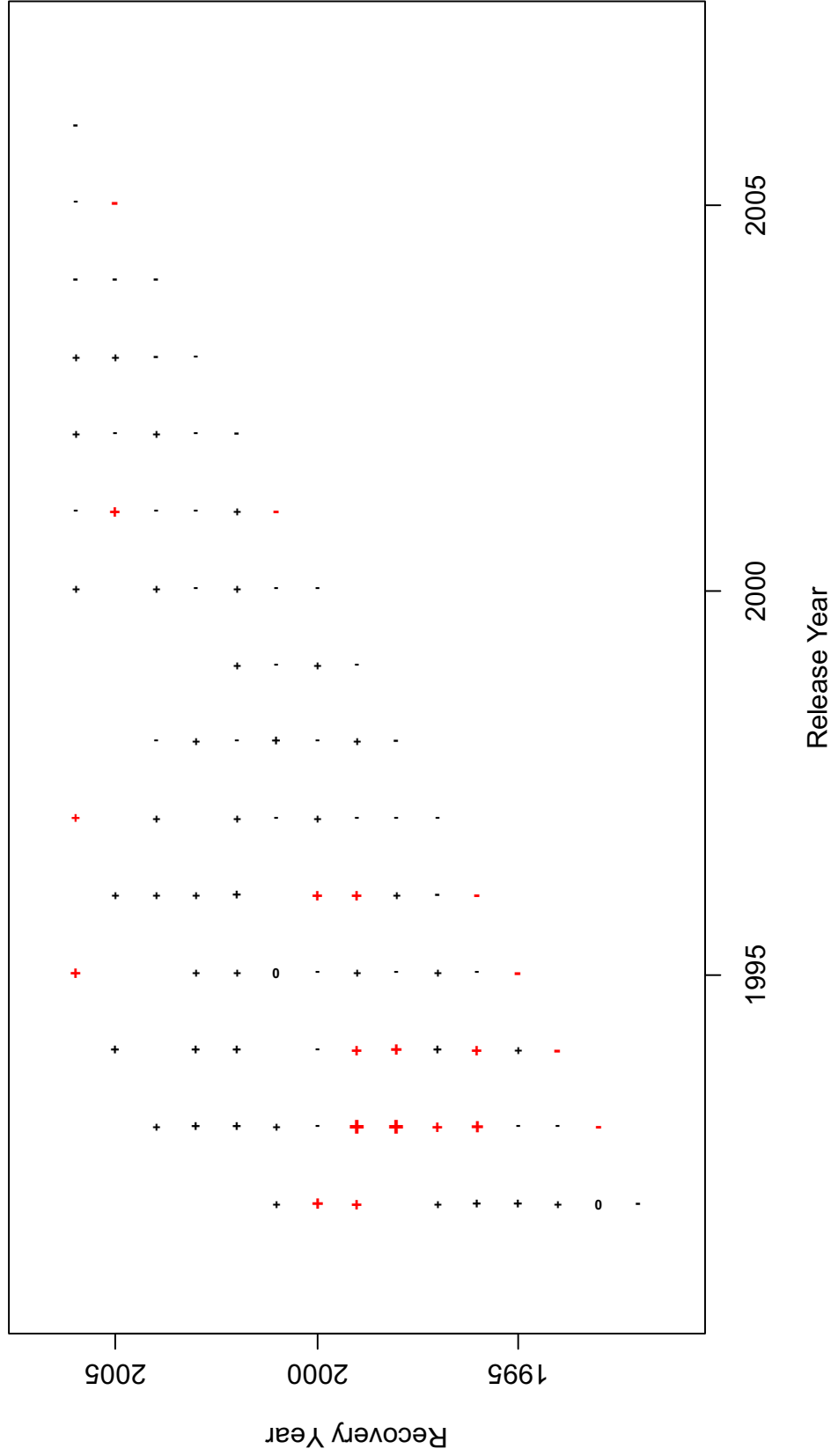


Figure 28 continued.



# MA Release

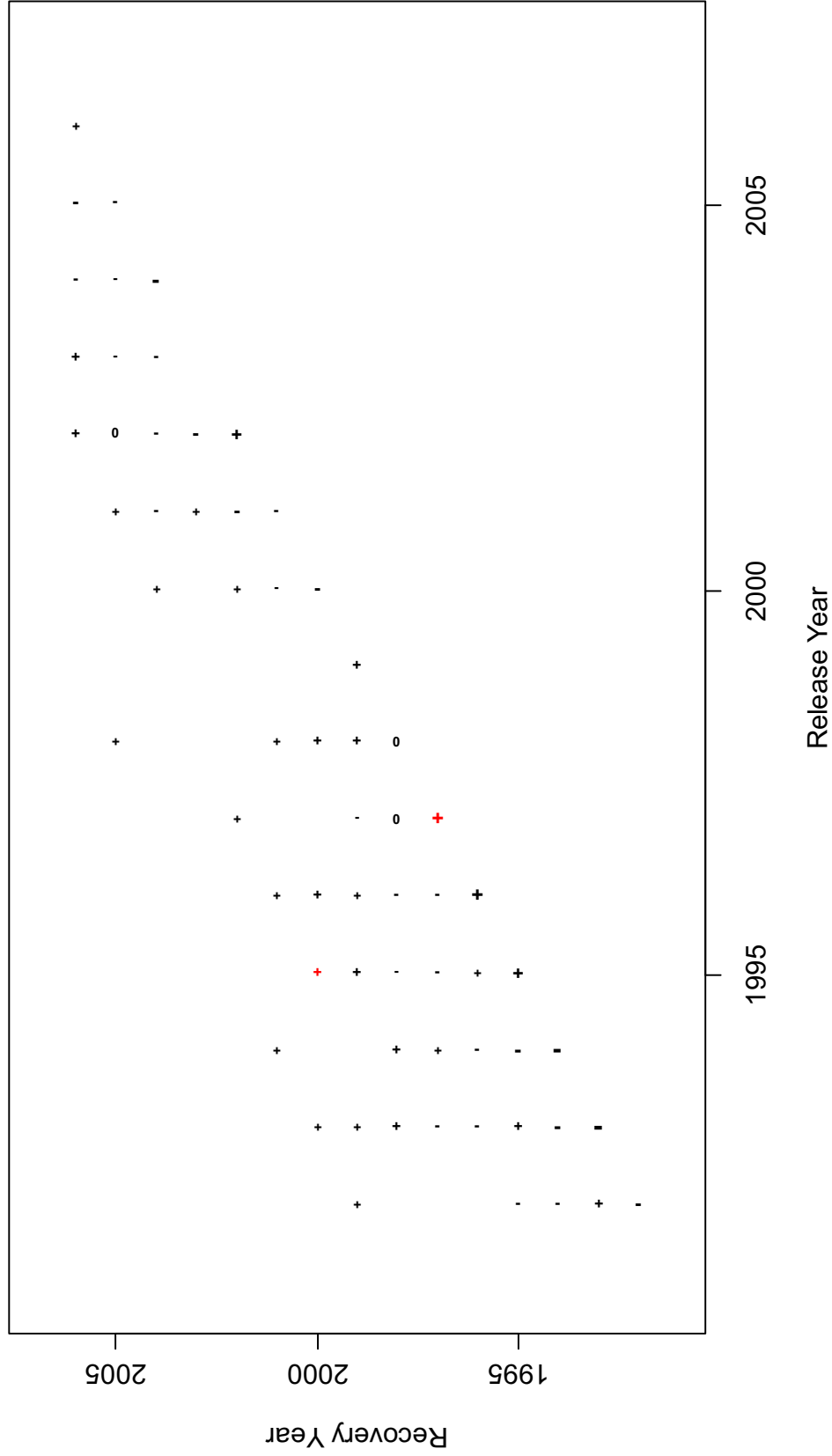


Figure 28 continued.

# MD Harvest

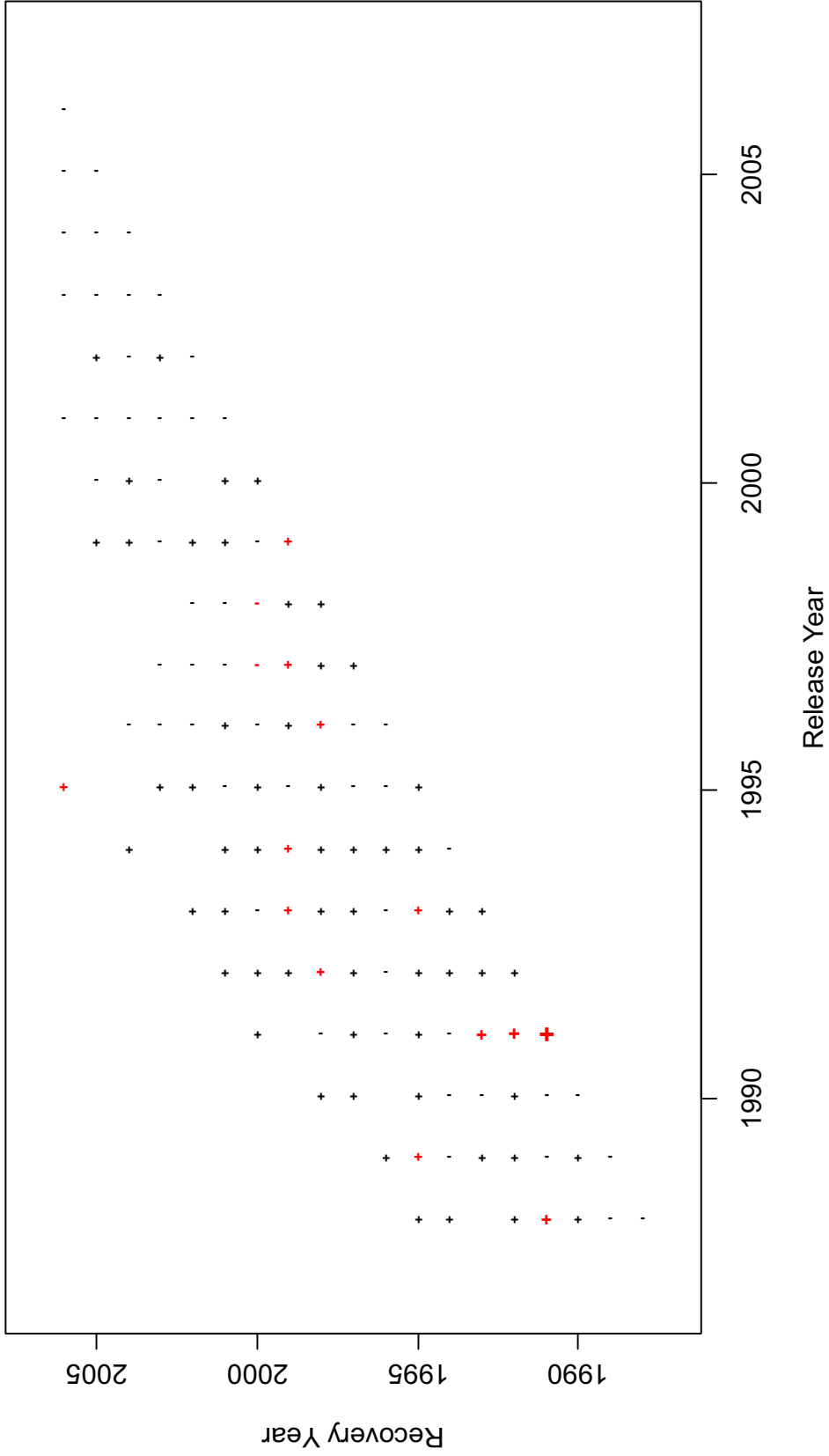


Figure 28 continued.

# MD Release

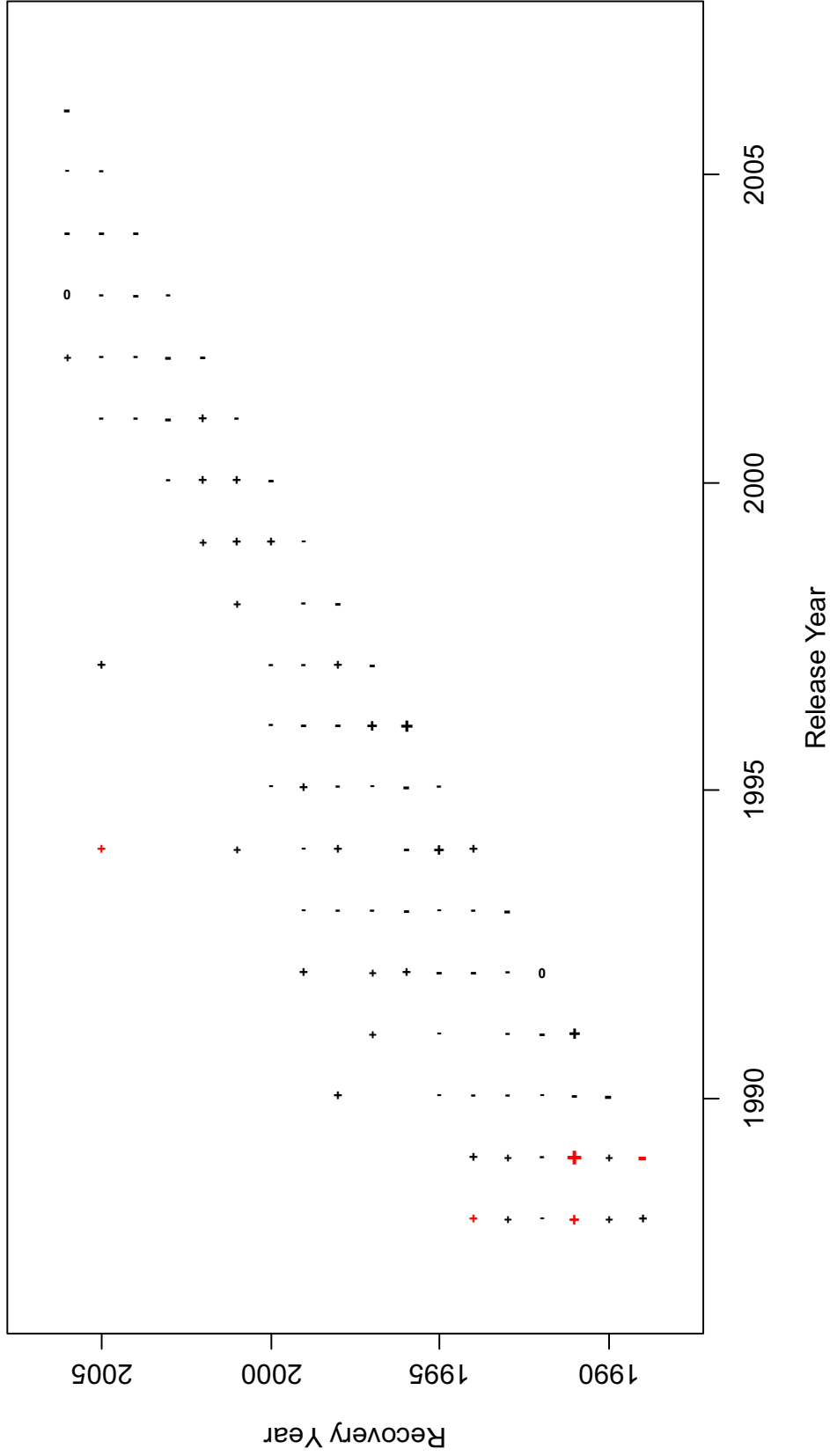


Figure 28 continued.

# NC Harvest

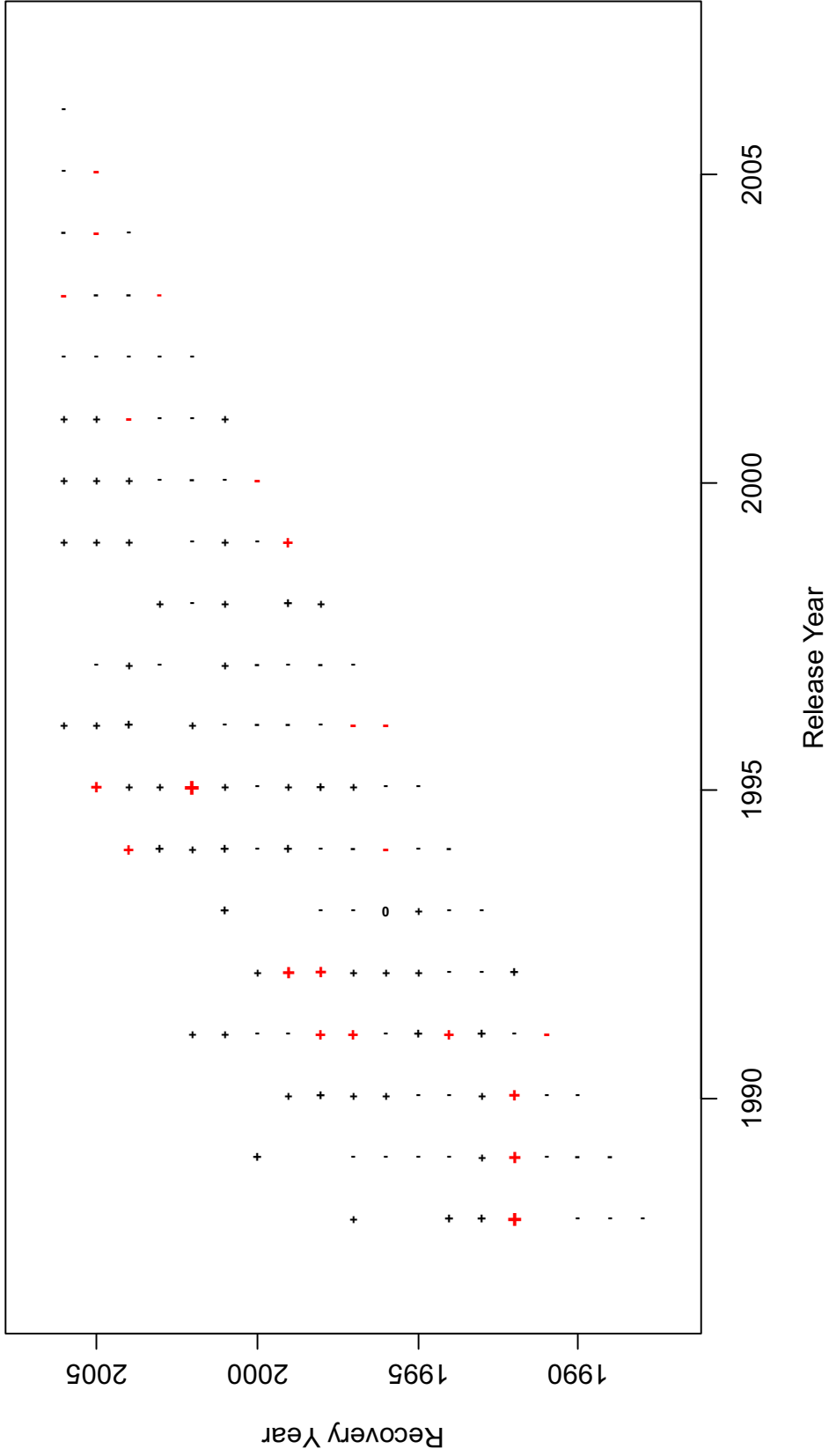


Figure 28 continued.

# NC Release

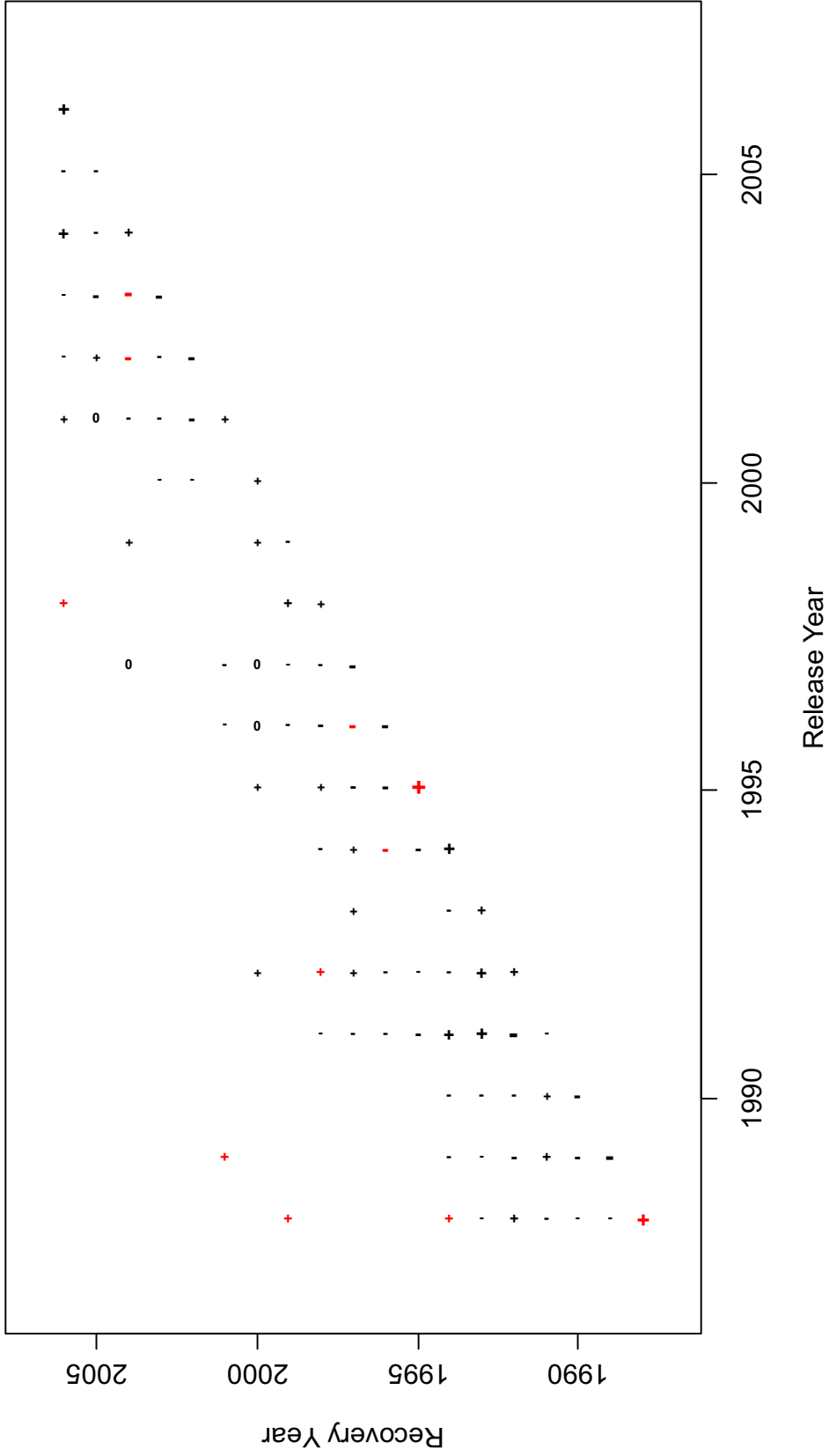


Figure 28 continued.

# NJ Harvest

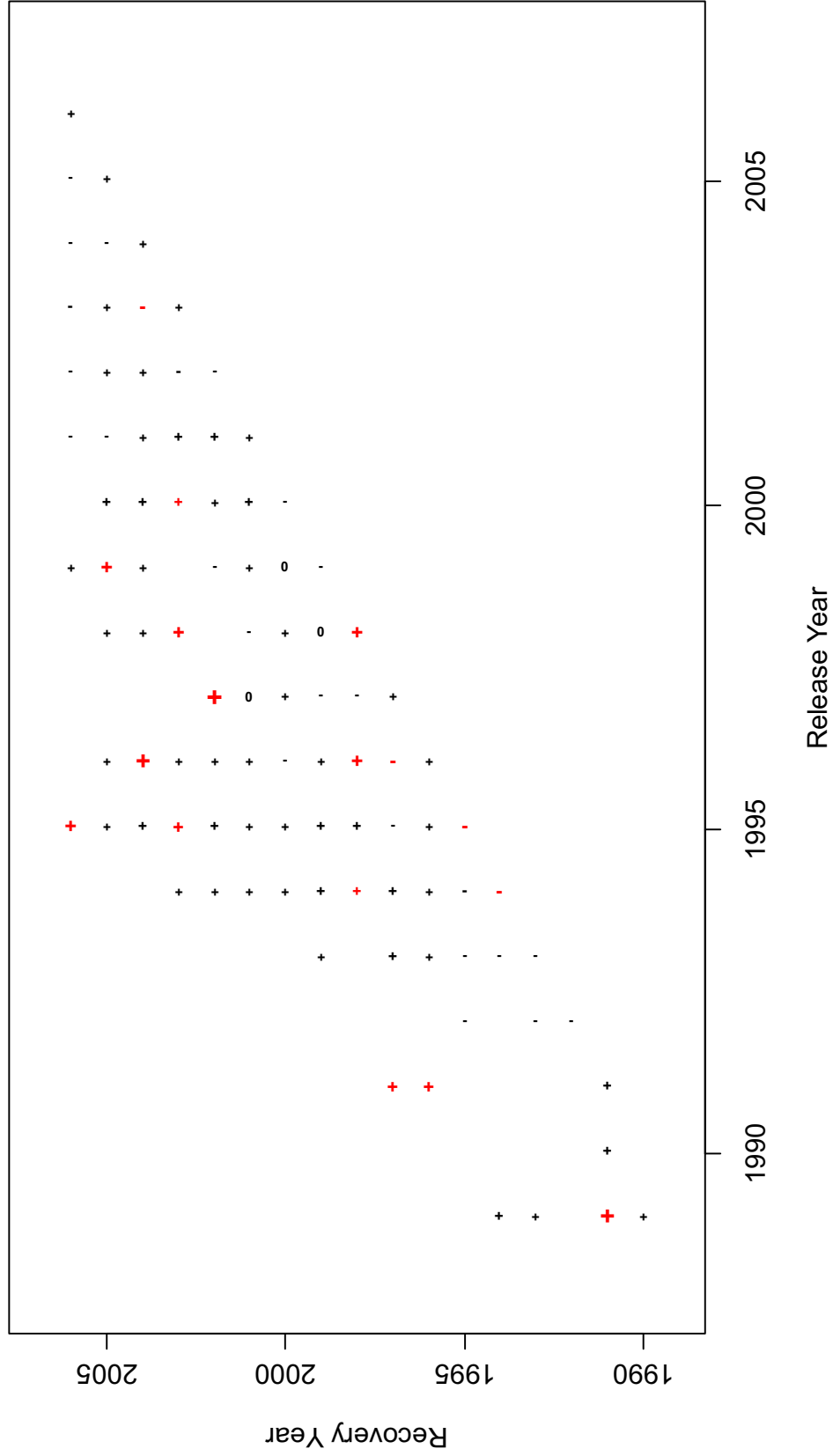


Figure 28 continued.

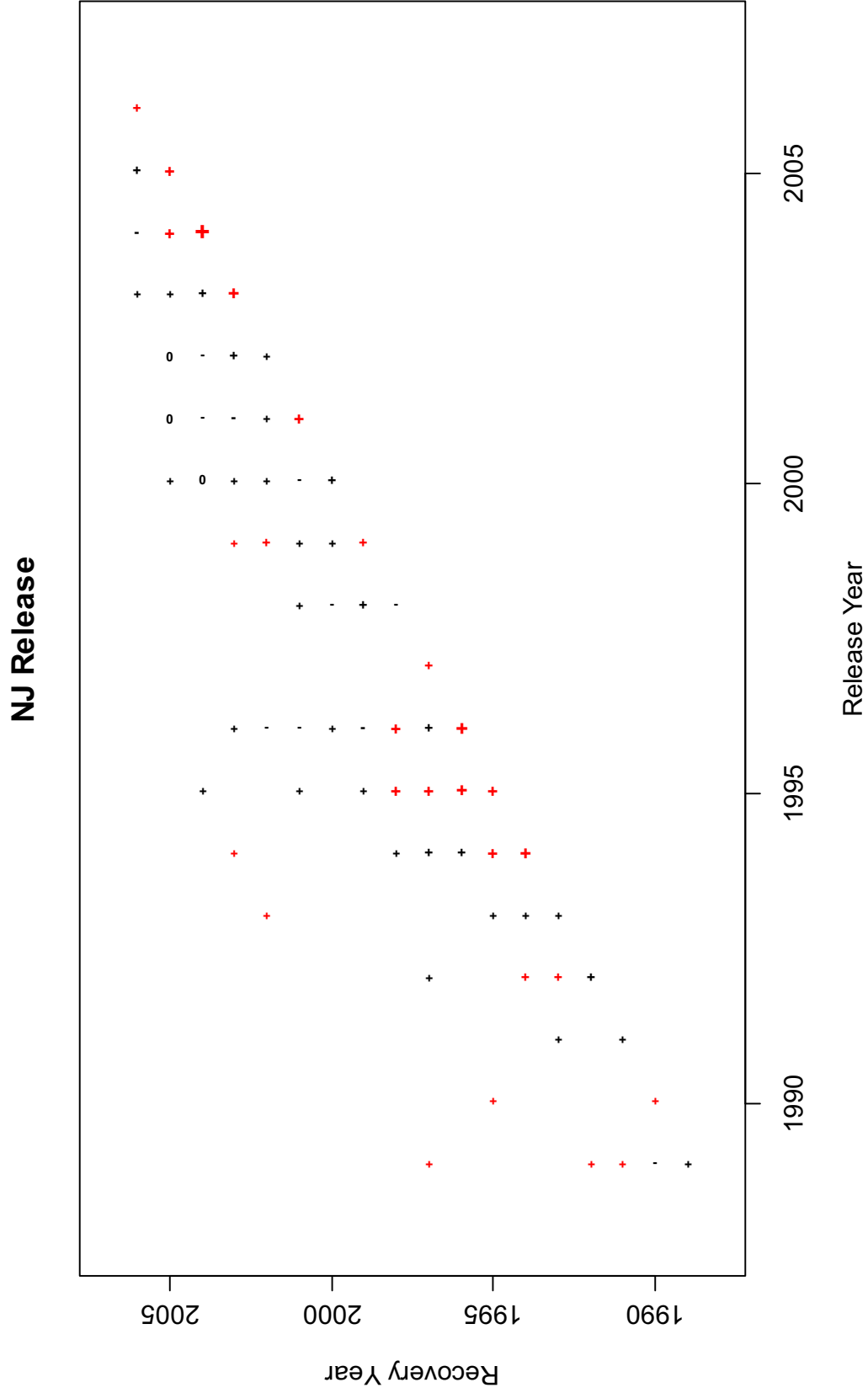


Figure 28 continued.

# NY Harvest

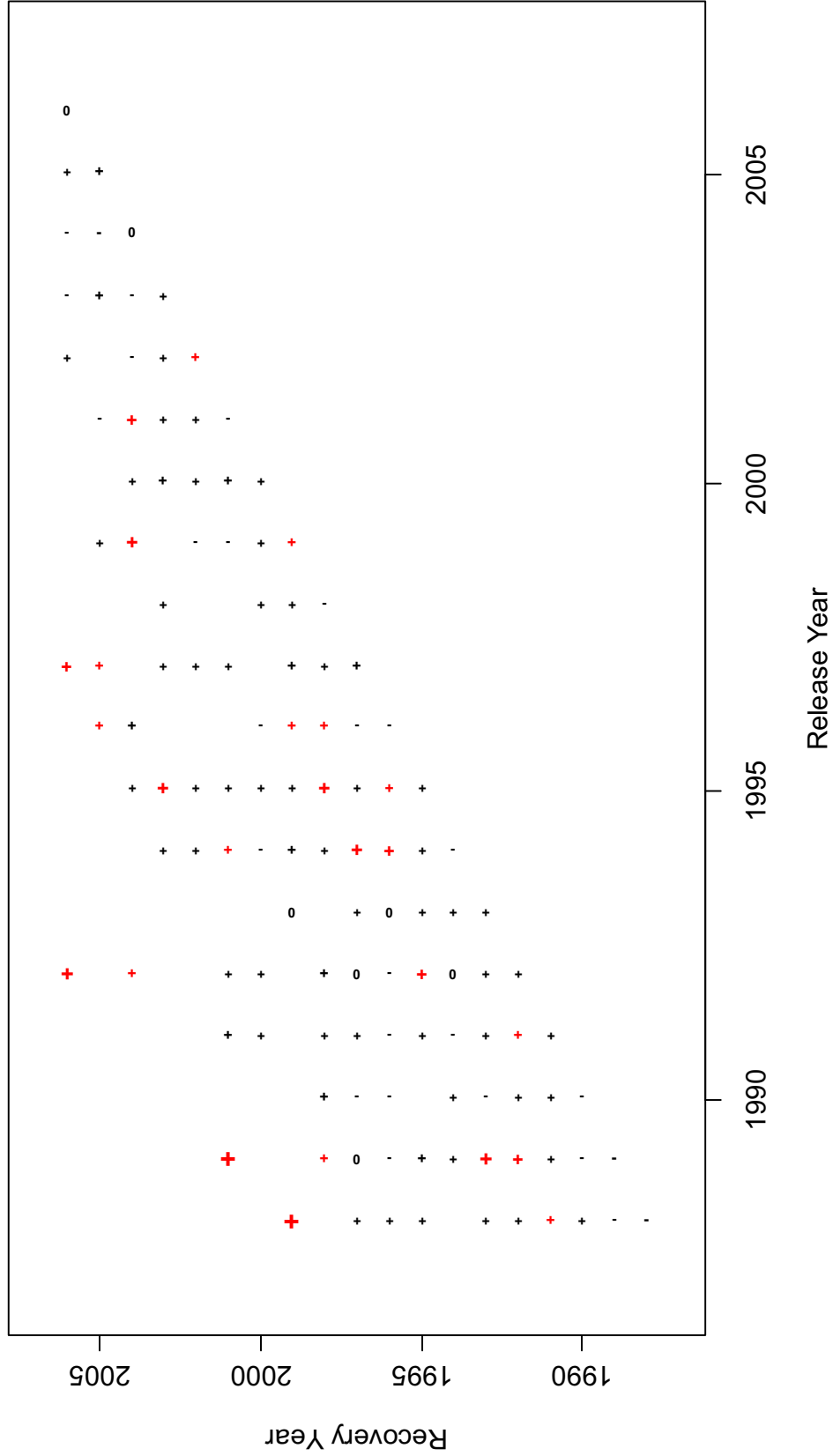


Figure 28 continued.



# NY Release

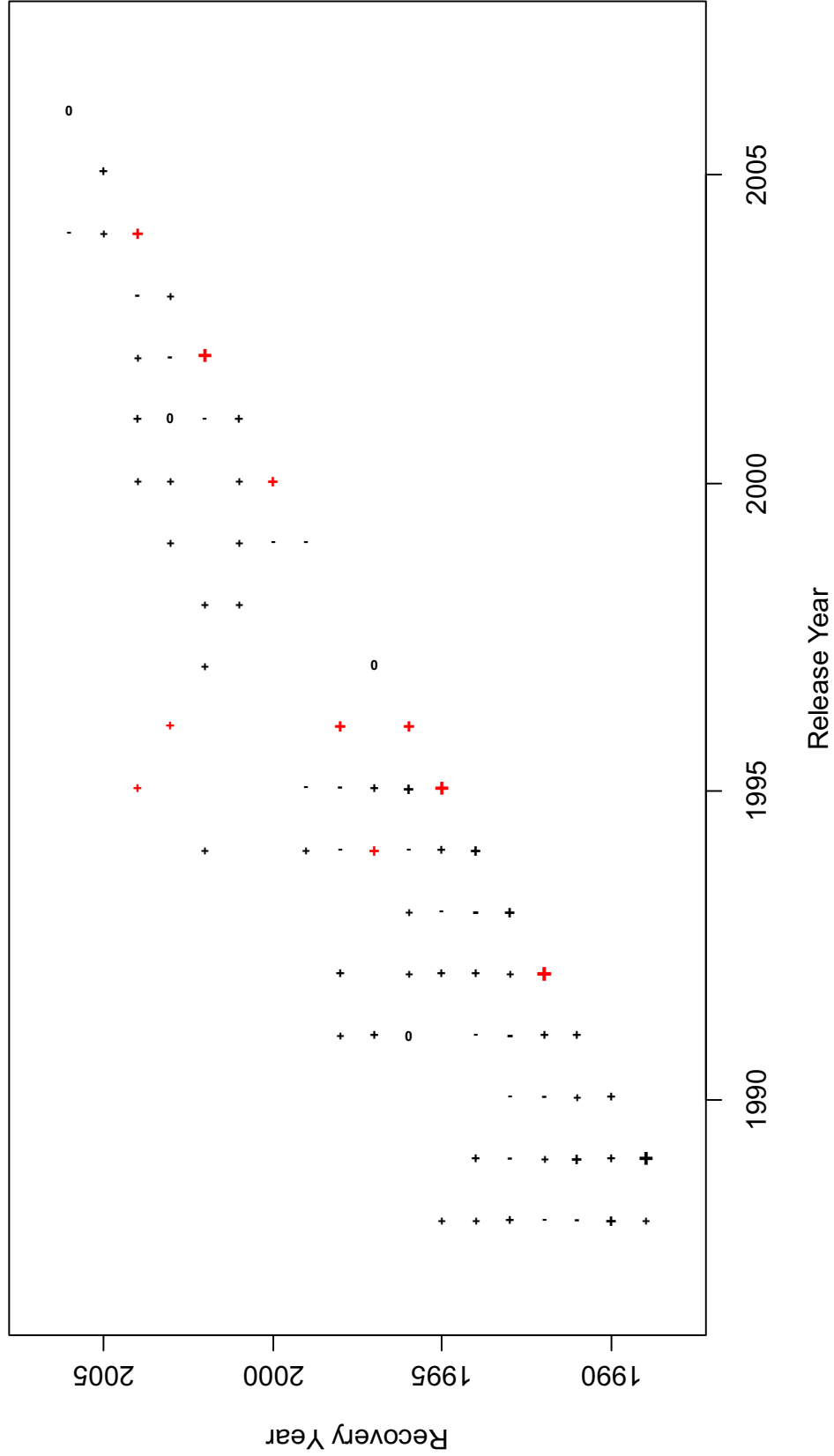


Figure 28 continued.

# VA Harvest

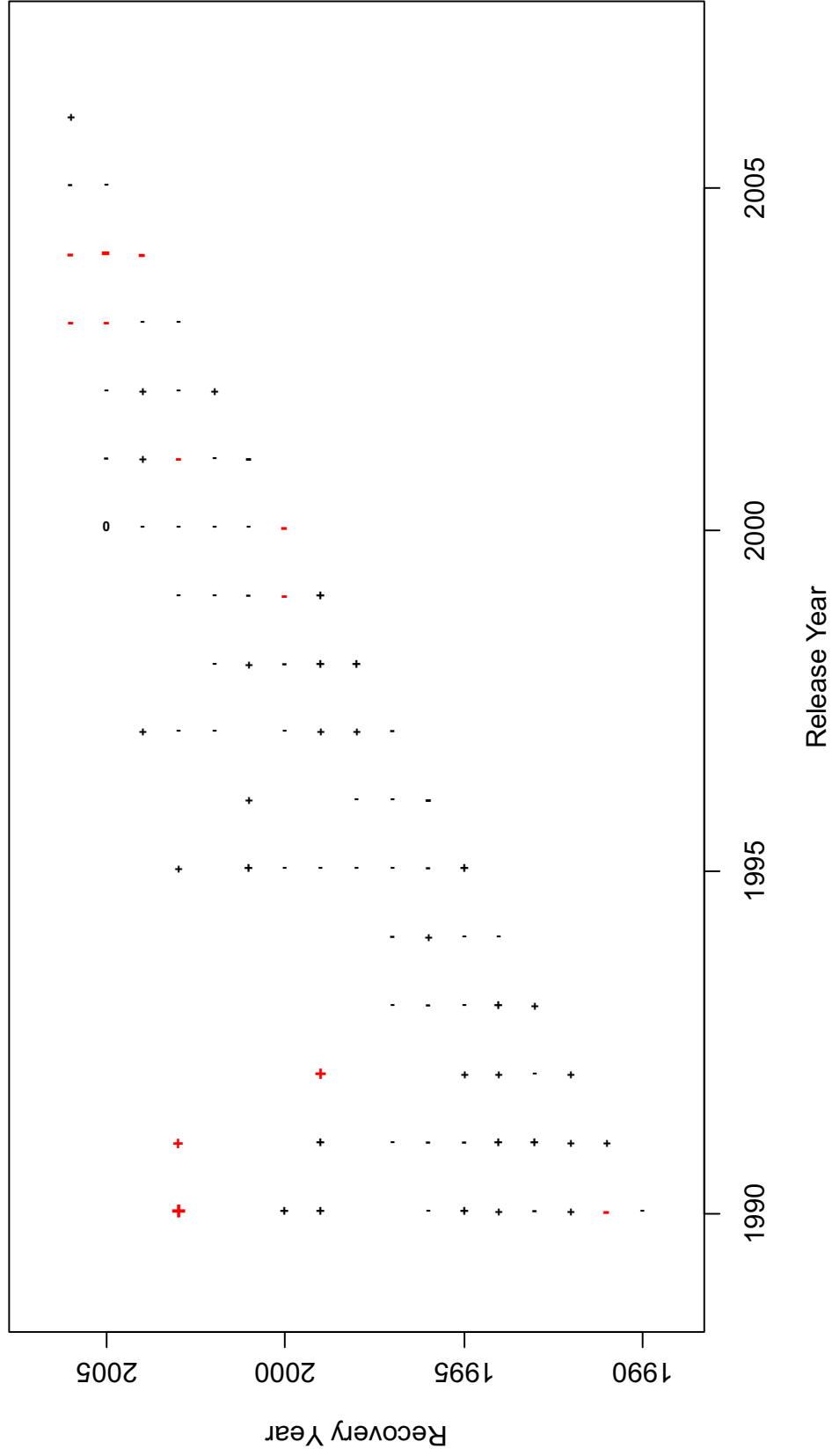


Figure 28 continued.

# VA Release

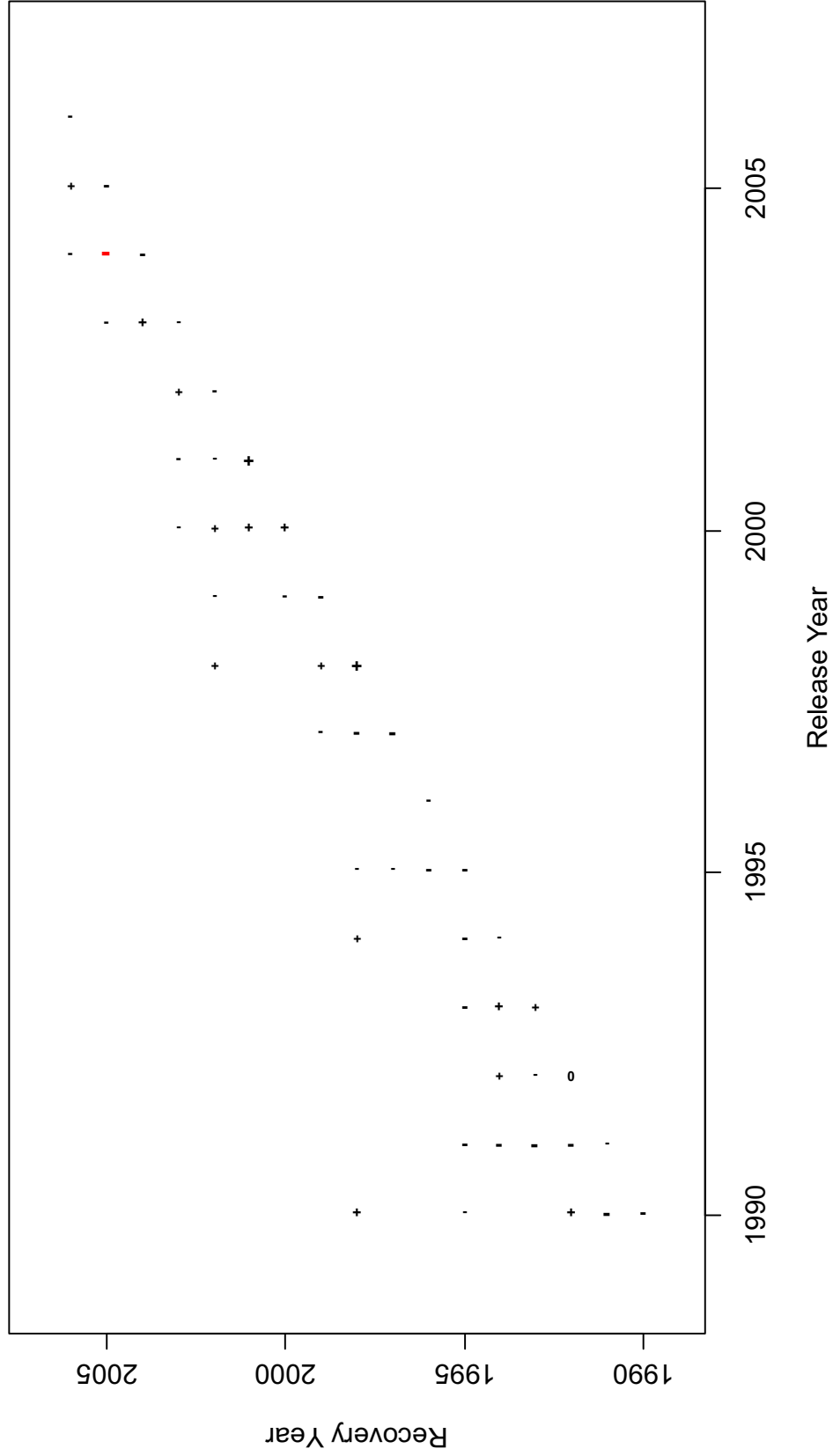


Figure 28 continued.