

Figure A1. Longfin squid landings.

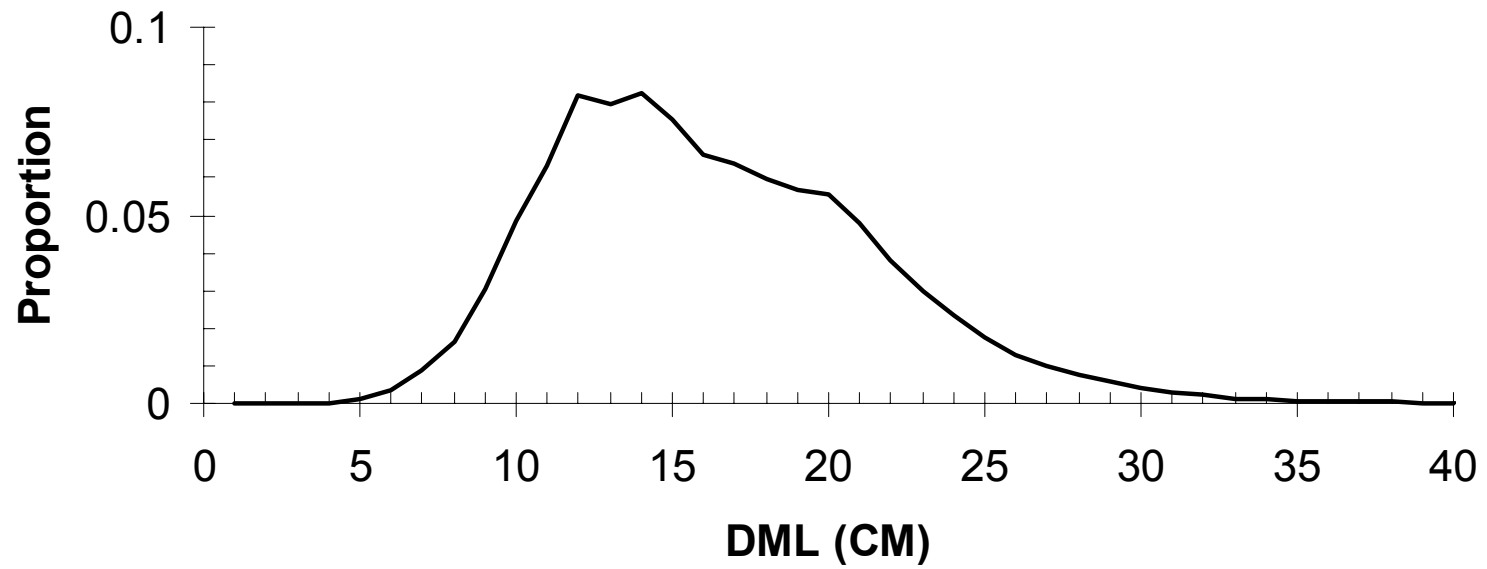


Figure A2. Commercial length composition data for longfin squid, 1975-2001 from port samples.

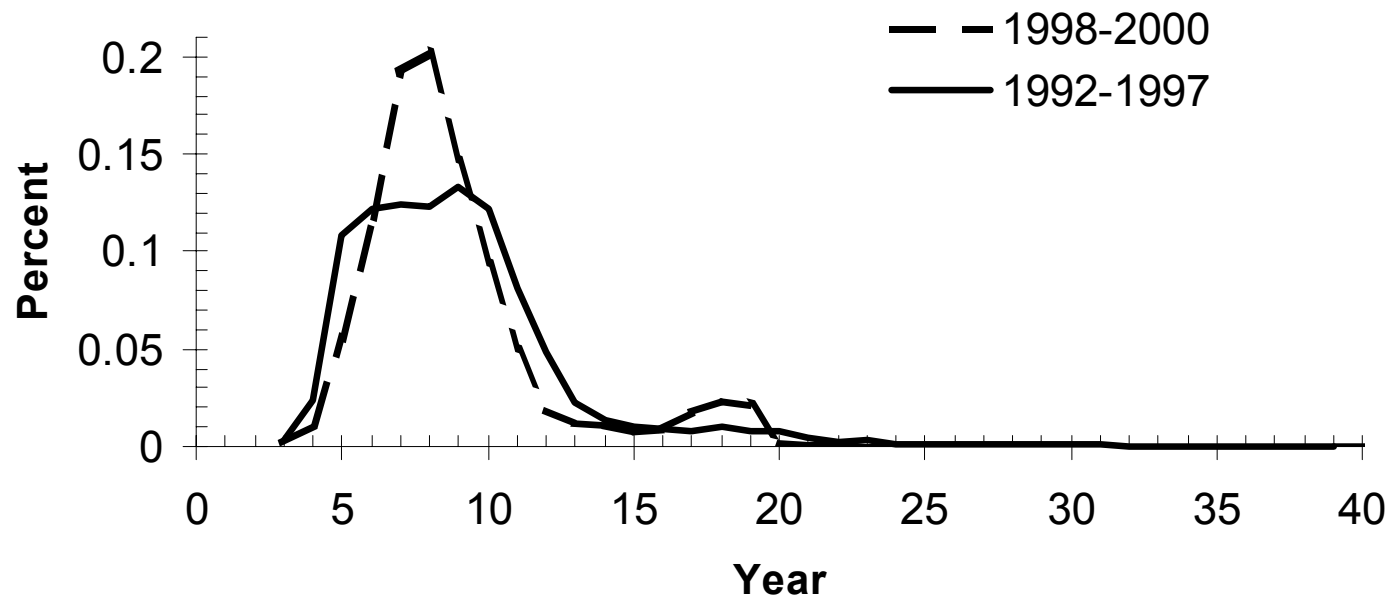


Figure A3. Sea sample observer data for longfin squid discarded at sea, 1992-2000 (scaled to average proportions).

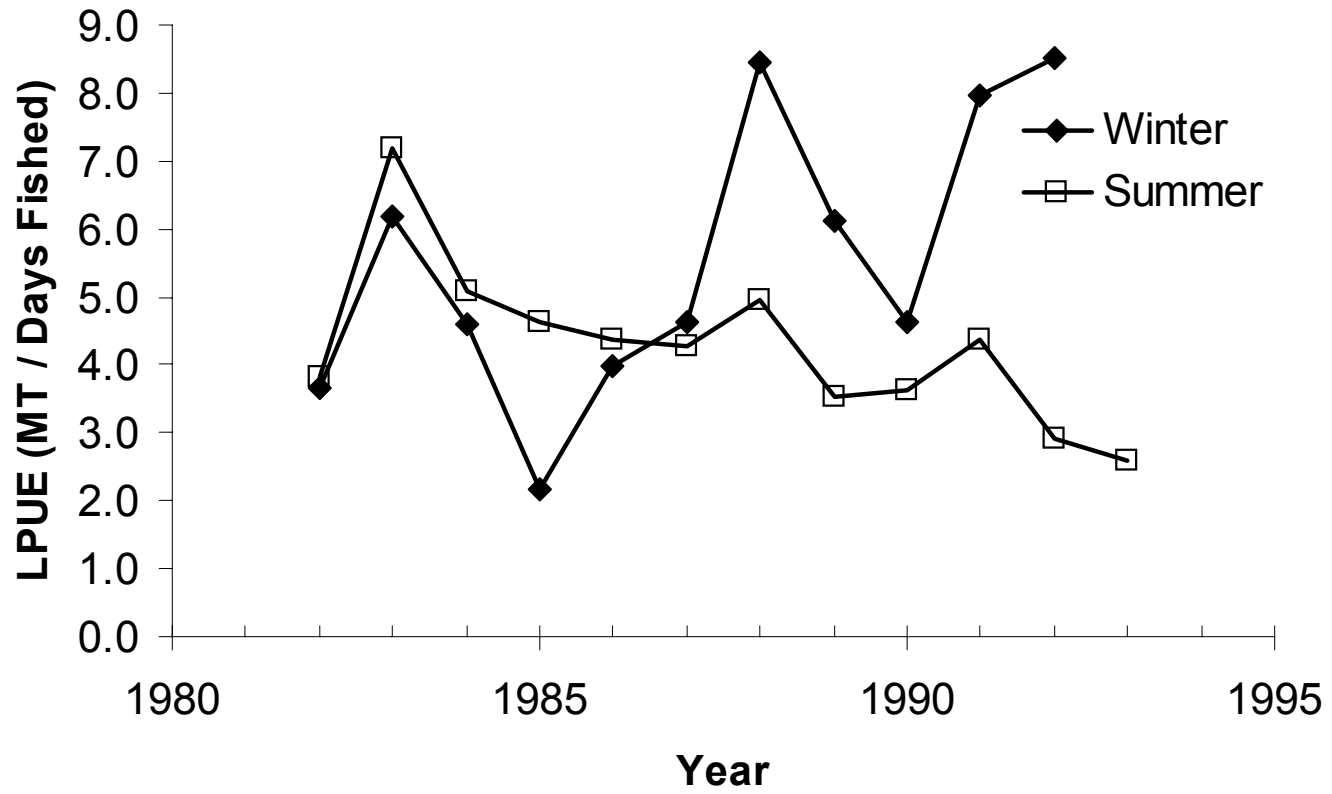


Figure A4. Standardized LPUE for Loligo.

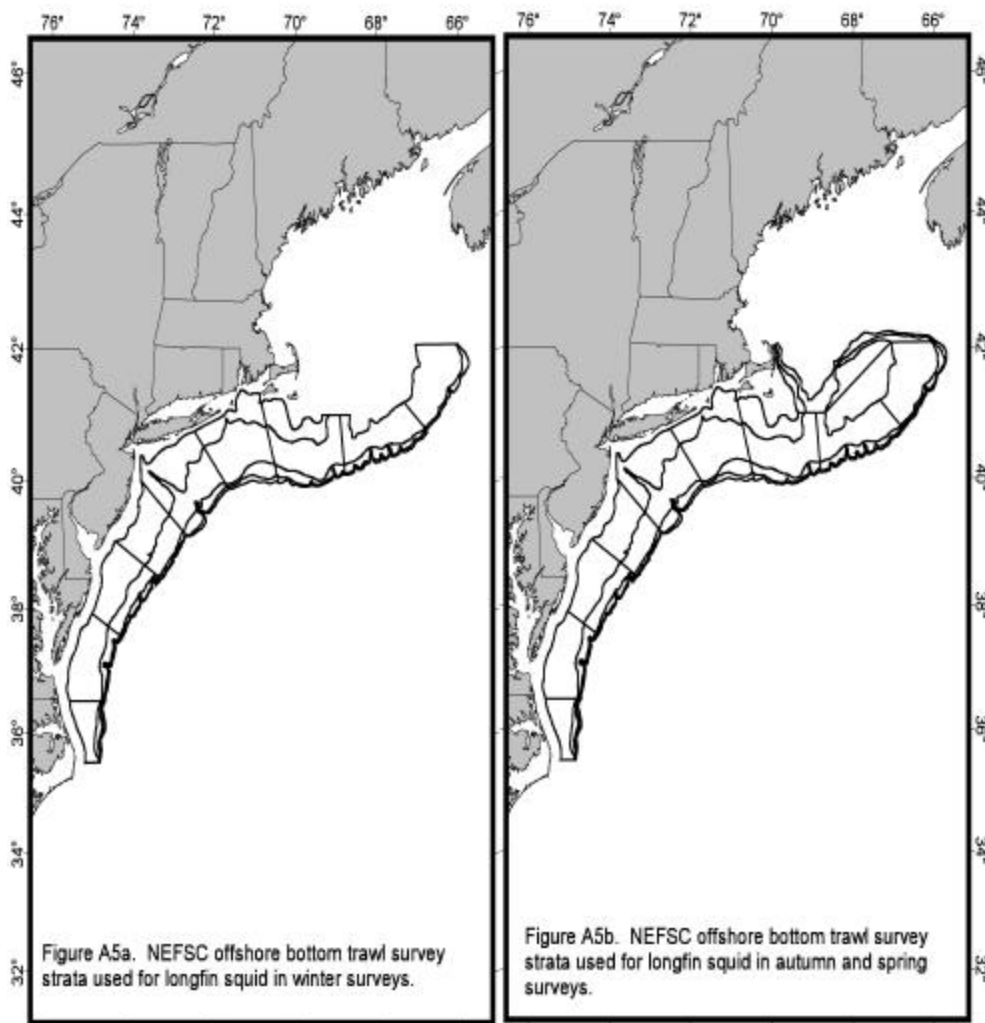
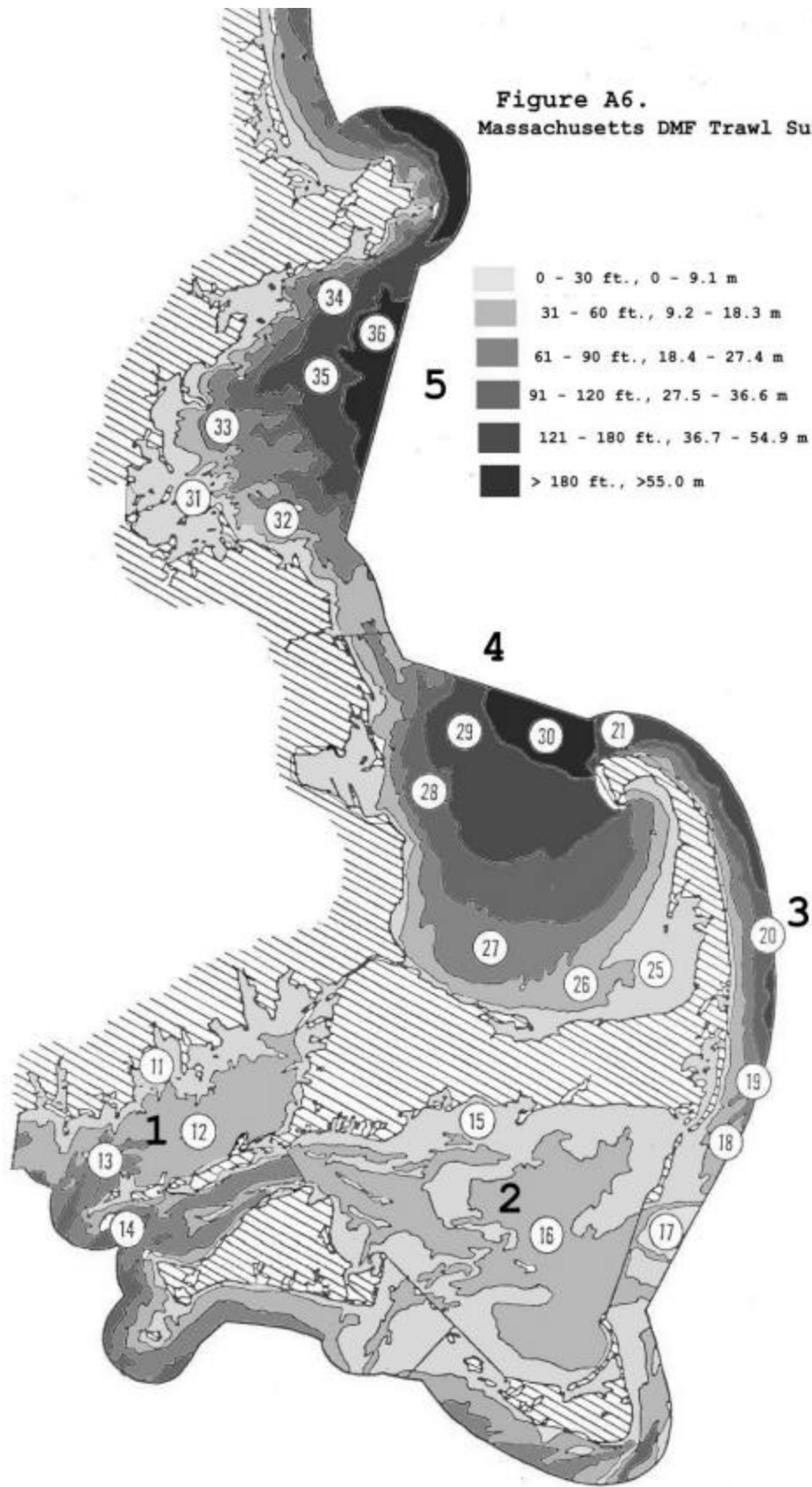
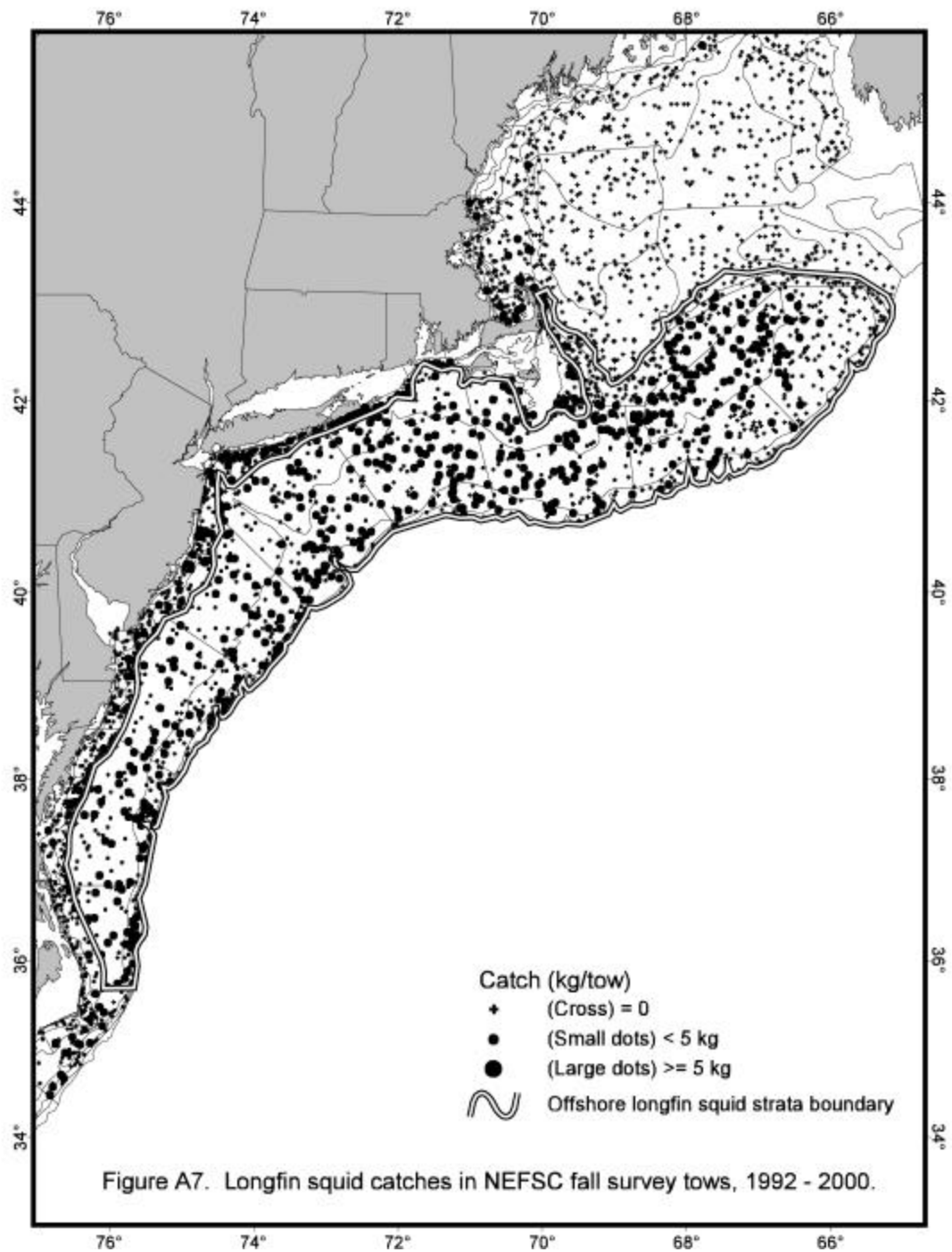
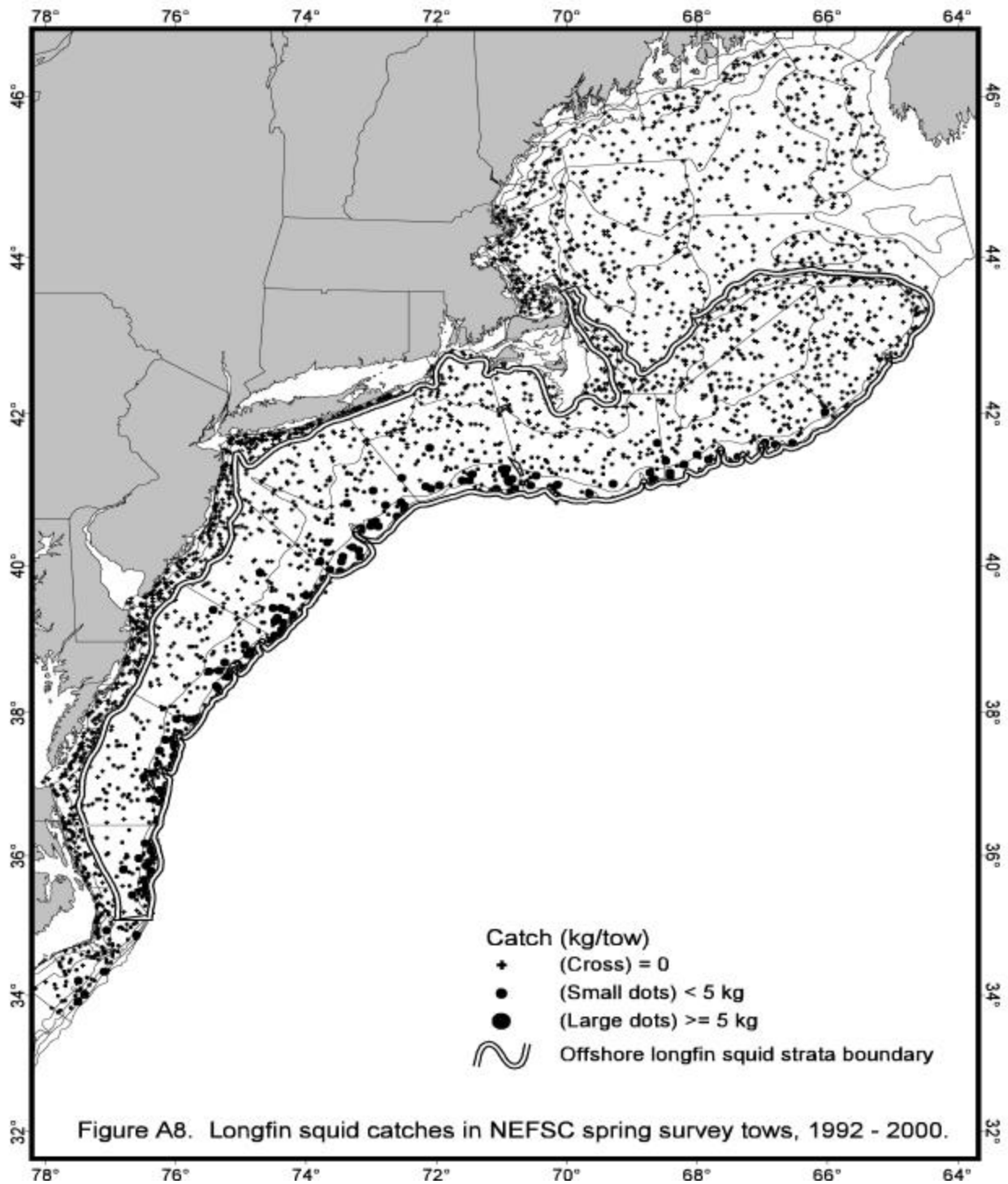
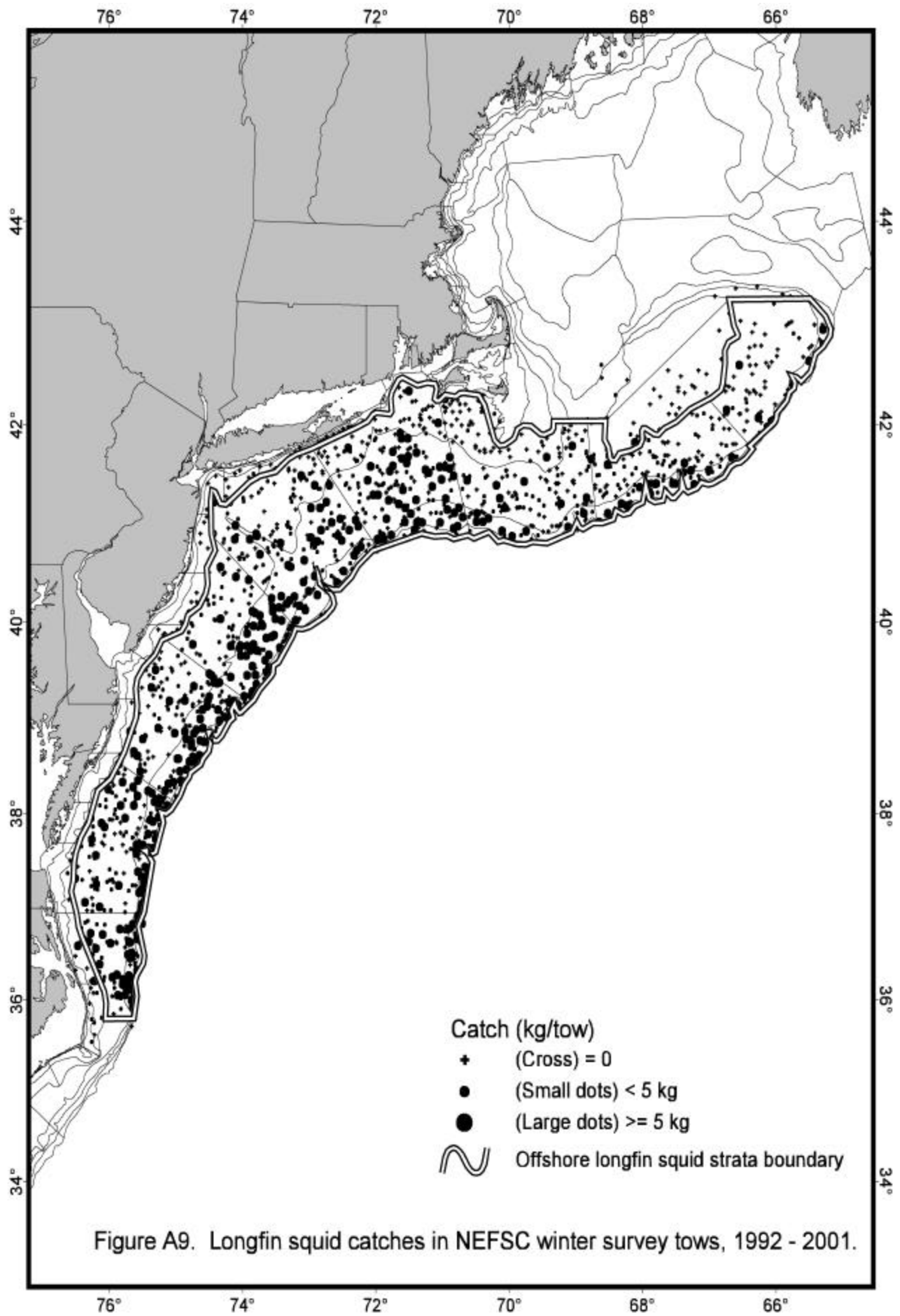


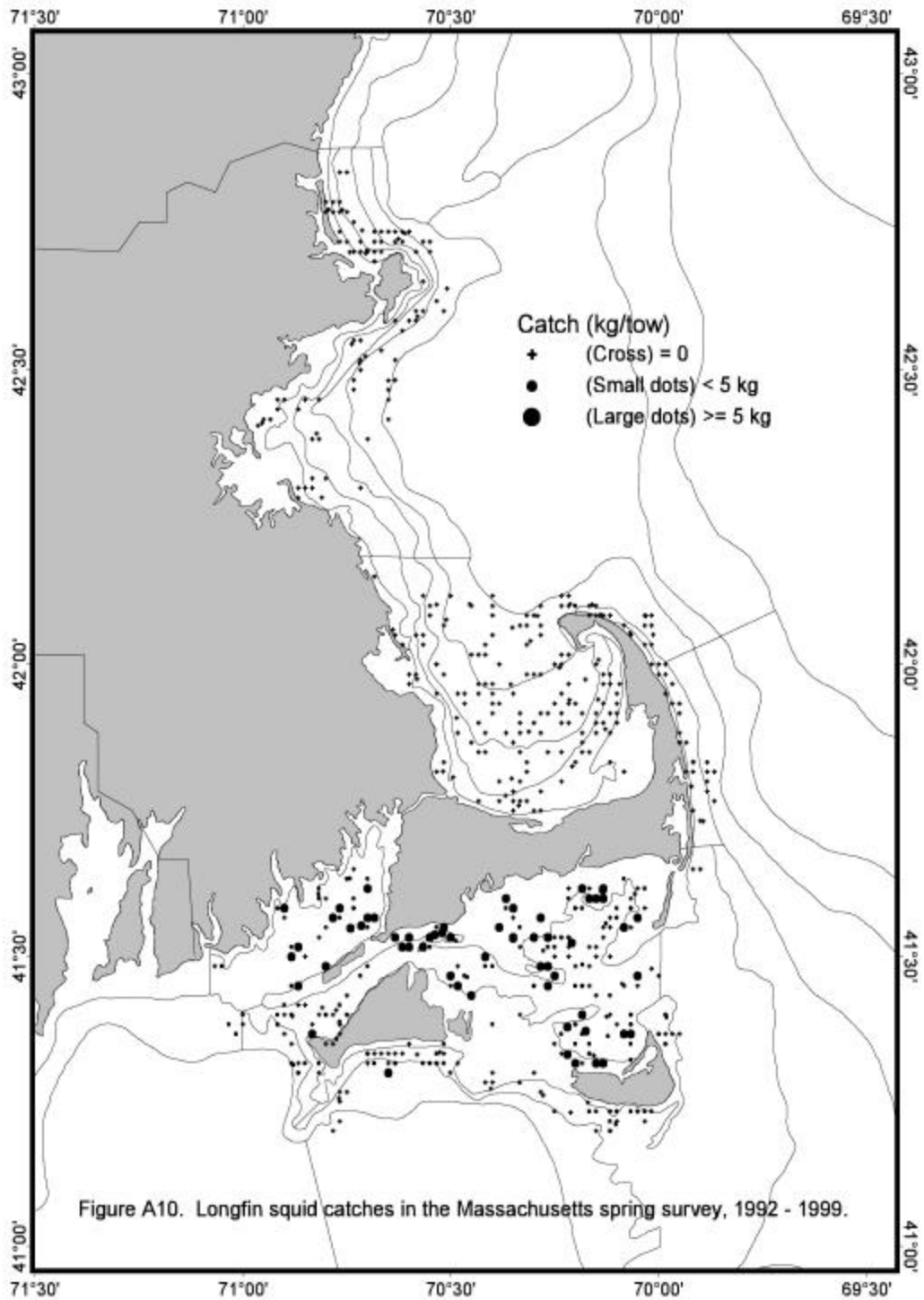
Figure A6.
Massachusetts DMF Trawl Survey Strata











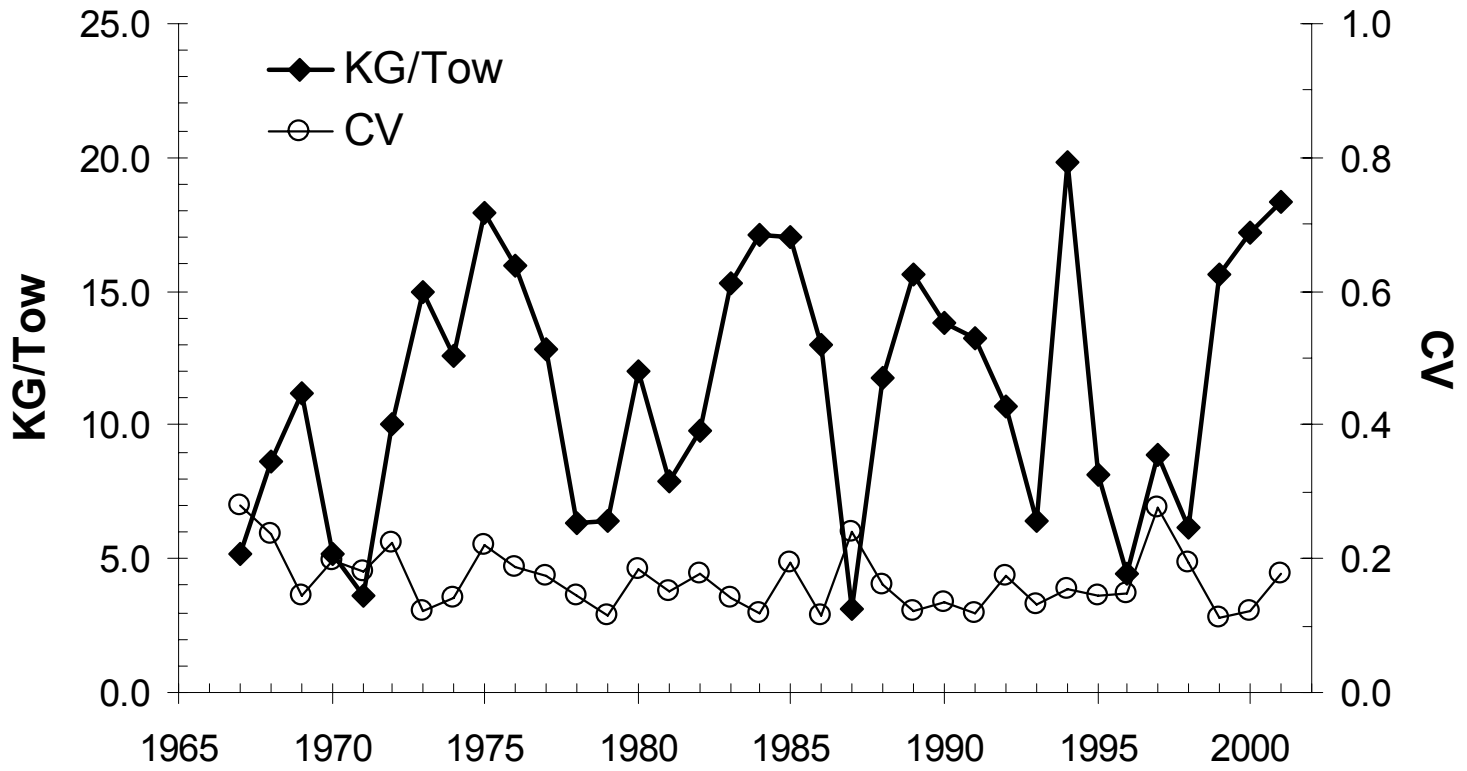


Figure A11. Longfin squid in the NEFSC fall survey.

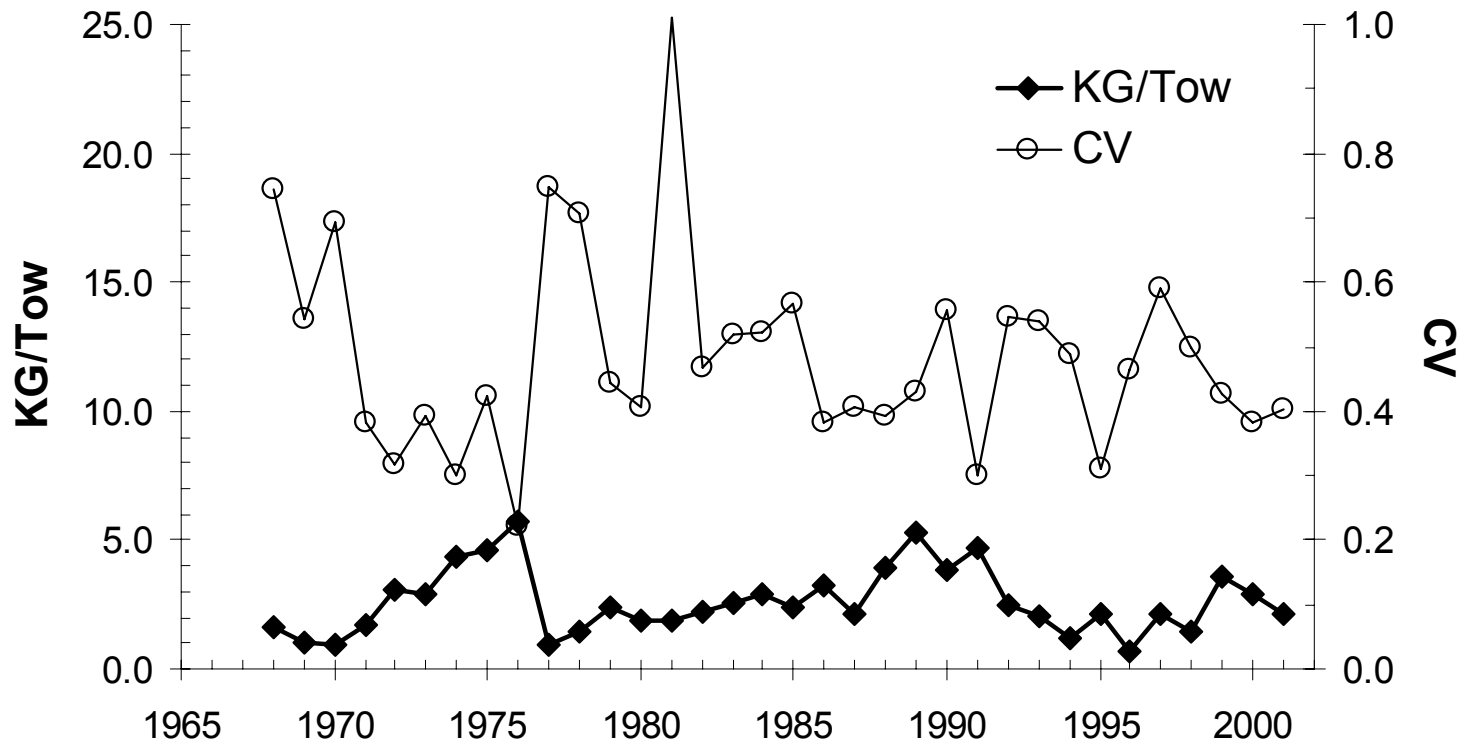


Figure A12. Longfin squid in the NEFSC spring survey.

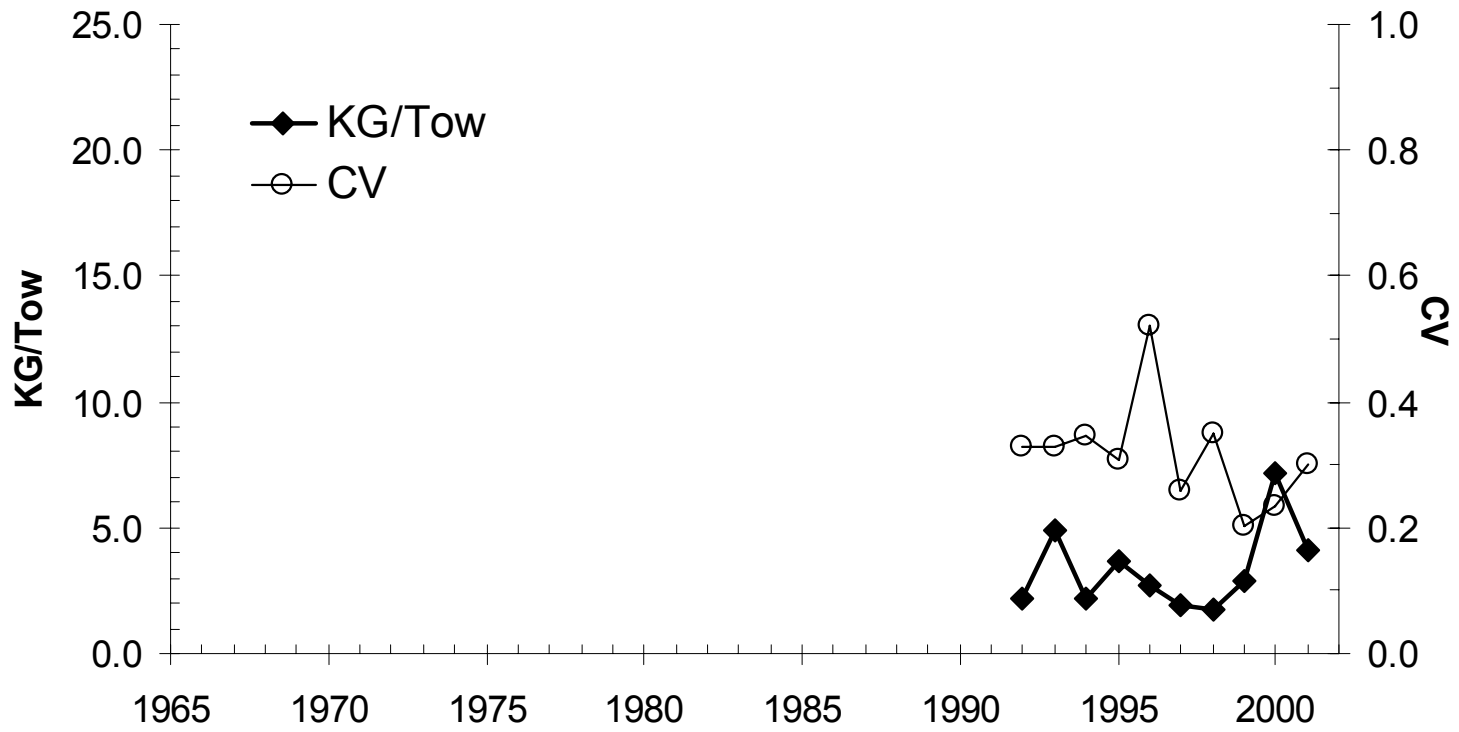


Figure A13. Longfin squid in the NEFSC winter survey.

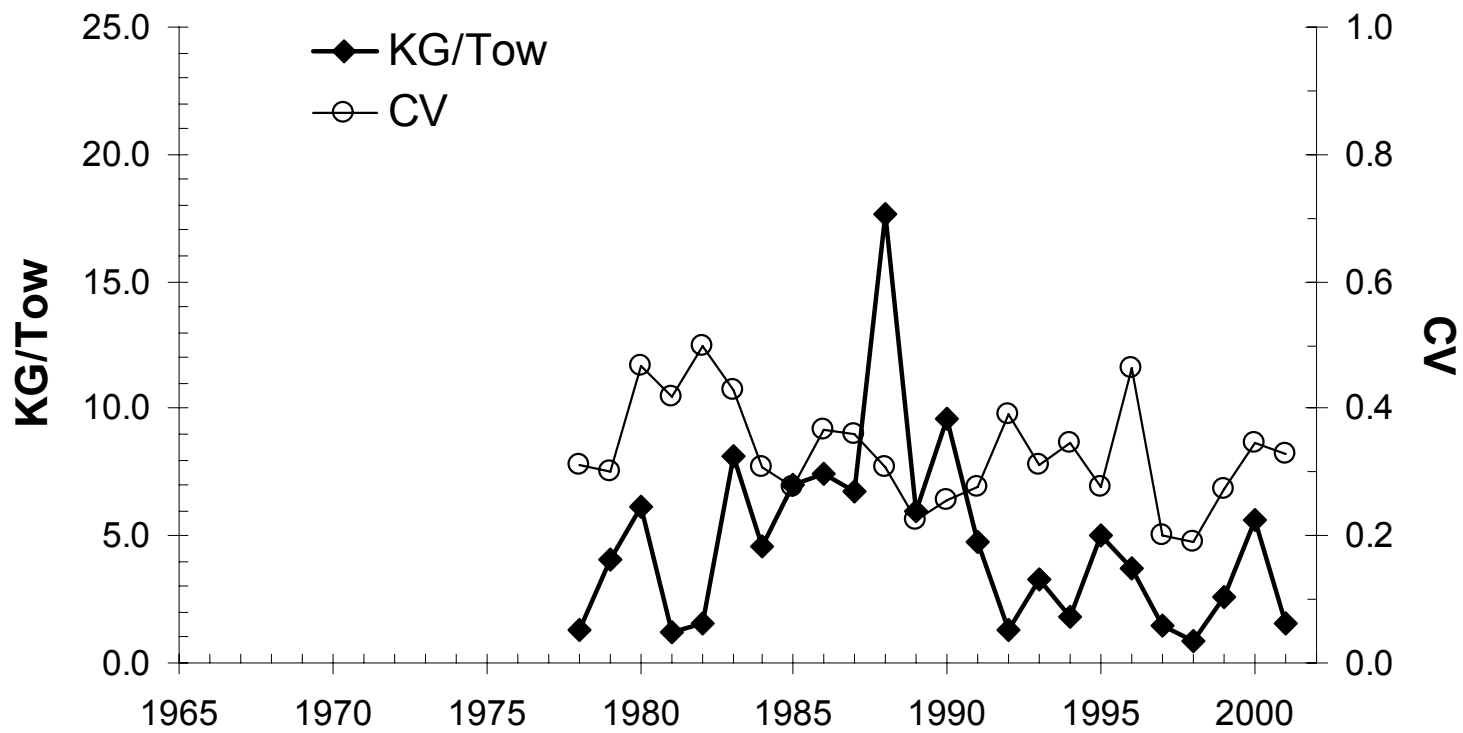


Figure A14. Longfin squid in the Massachusetts spring survey.

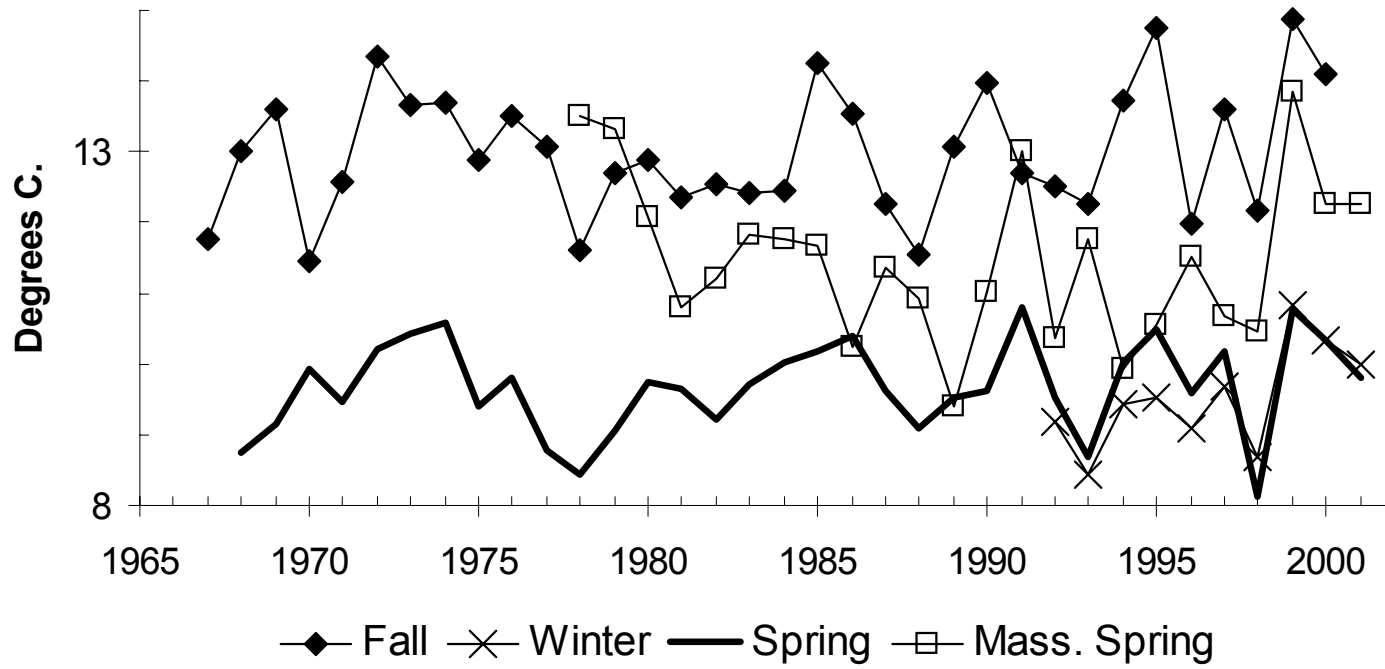


Figure A15. Bottom temperatures for longfin squid survey tows.

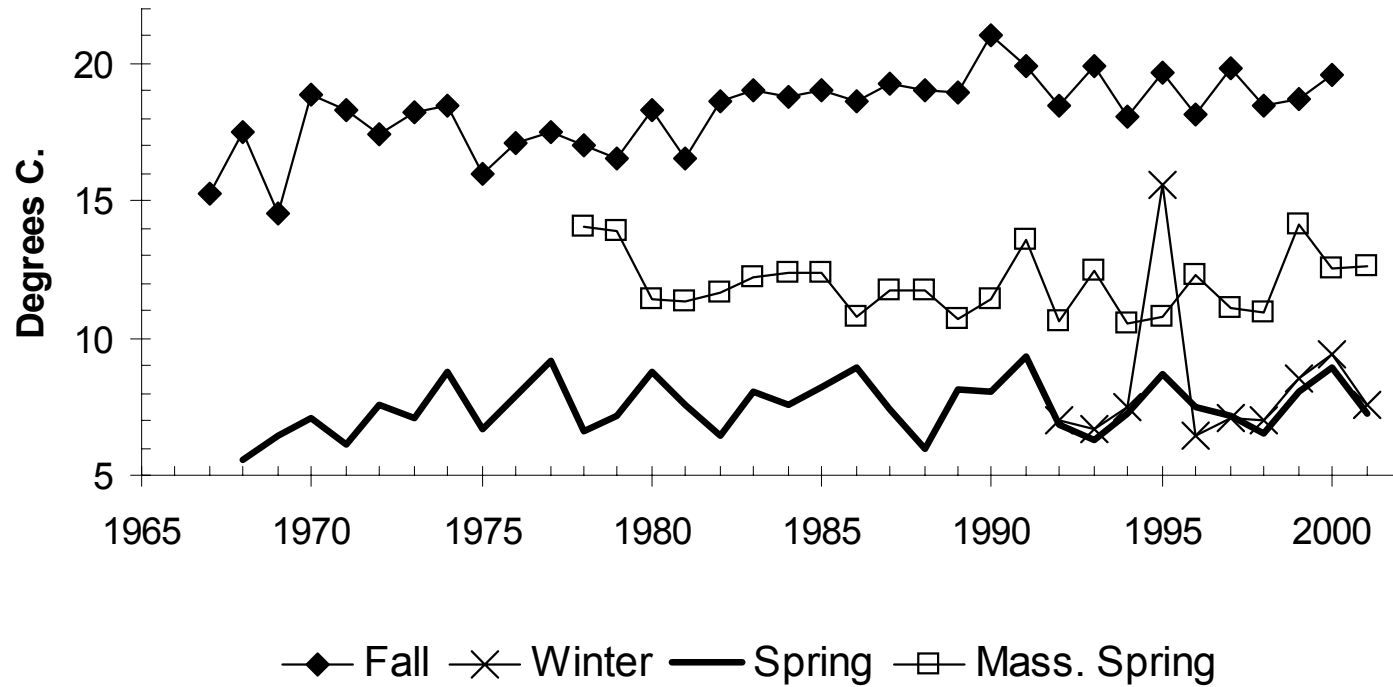


Figure A16. Surface temperatures for longfin squid survey tows.

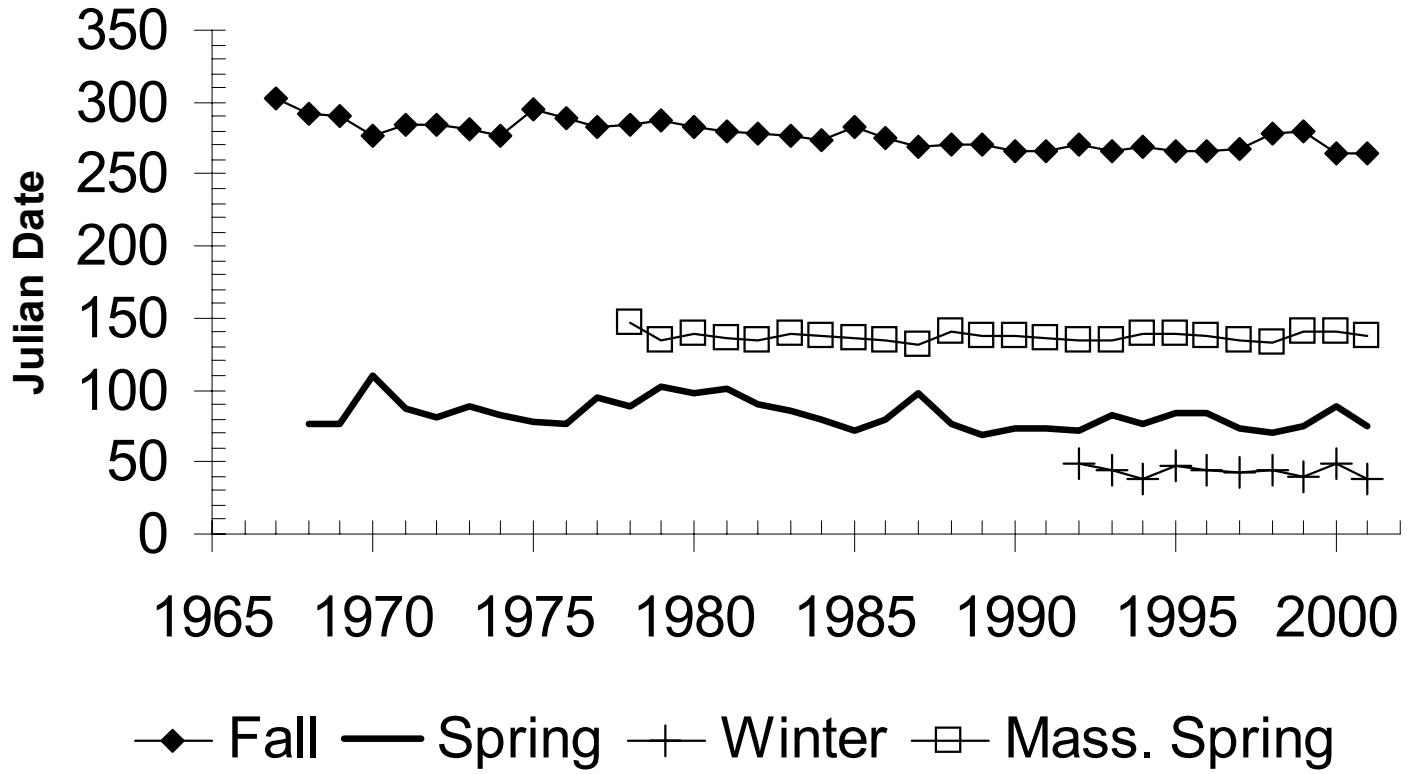


Figure A17. Mean survey dates for longfin squid.

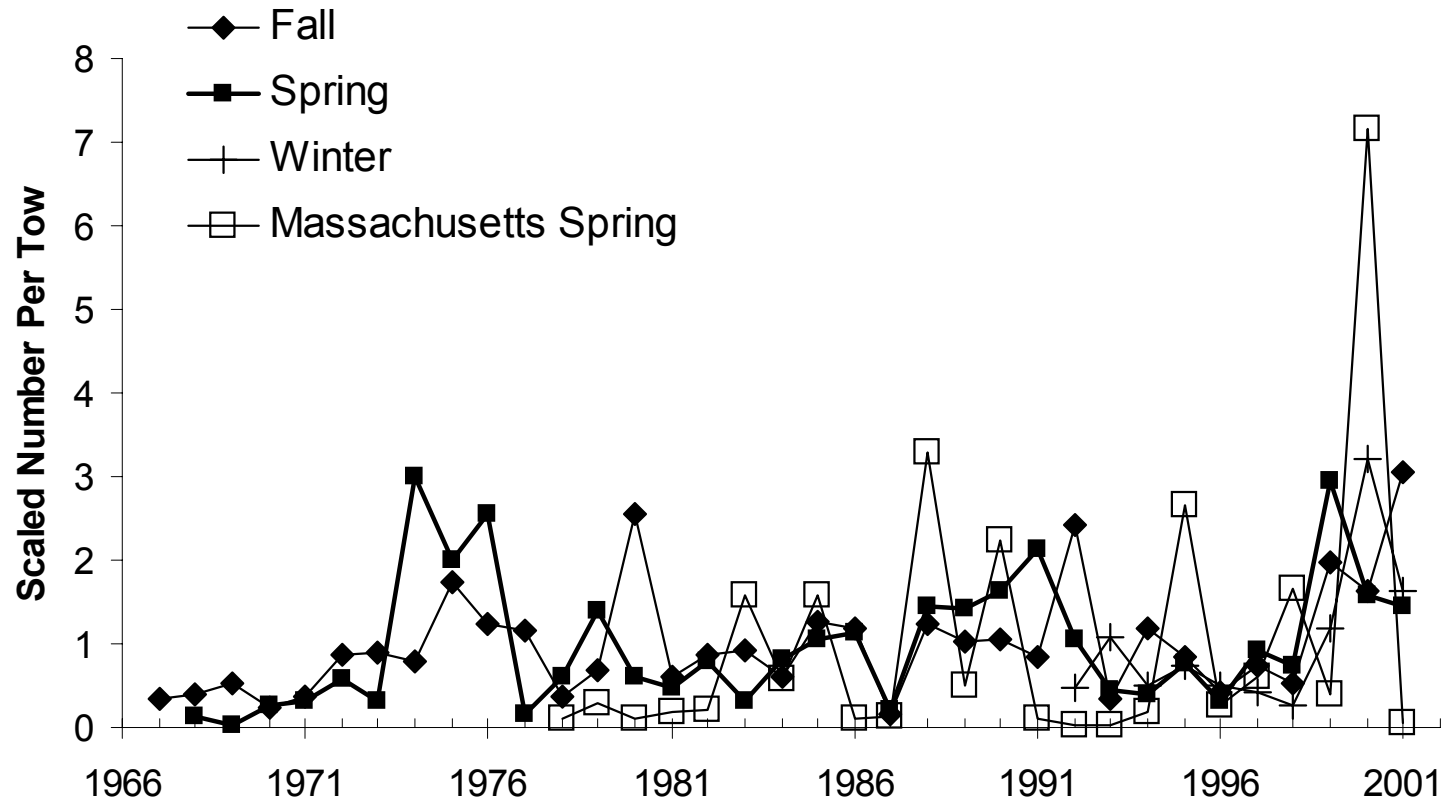


Figure A18. Fall survey recruitment index (rescaled number per tow <8 cm DML)

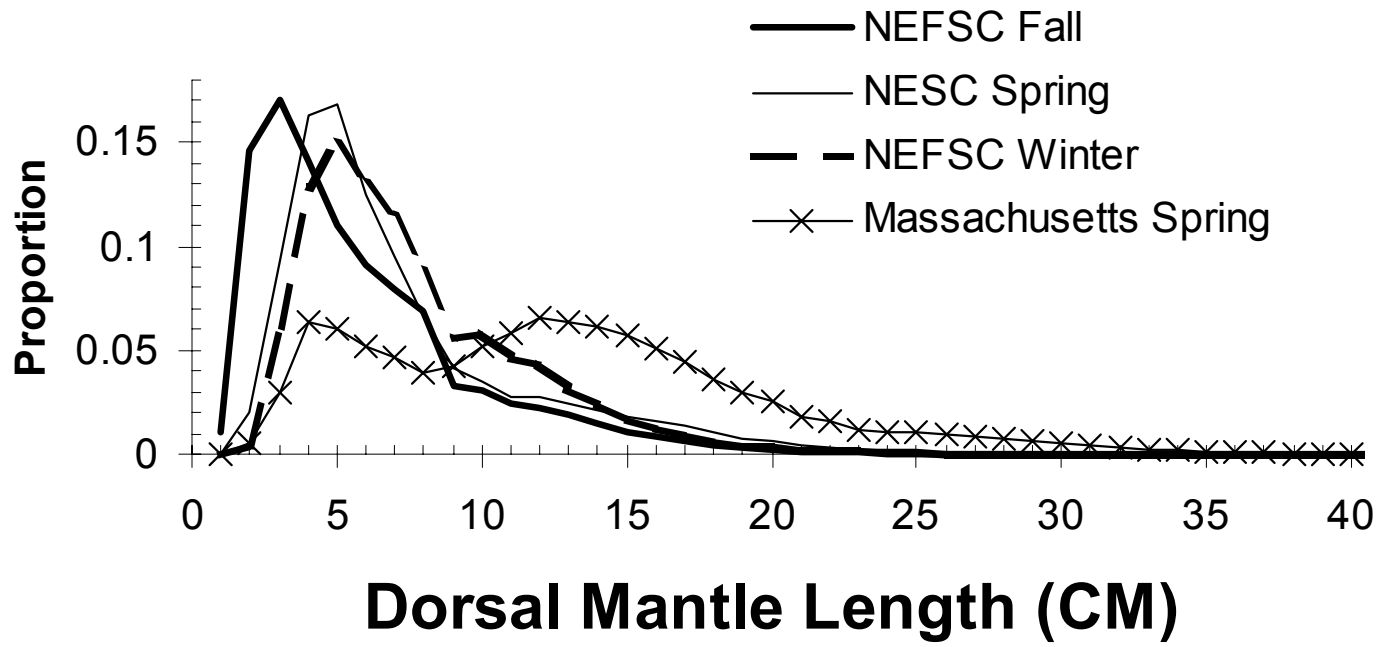


Figure A19. Bottom trawl survey length composition data for longfin squid (all years).

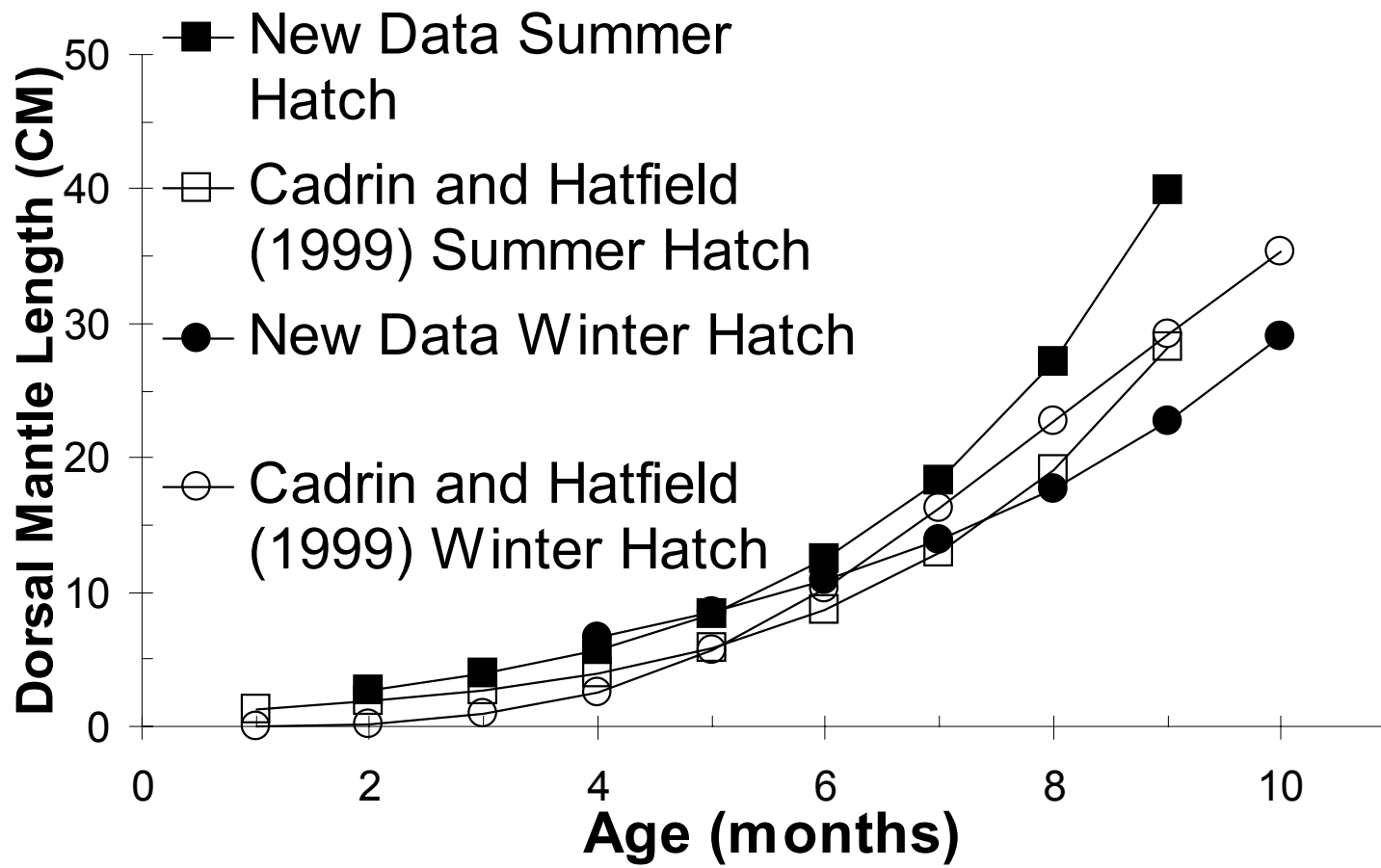


Figure A20. Growth curves for longfin squid.

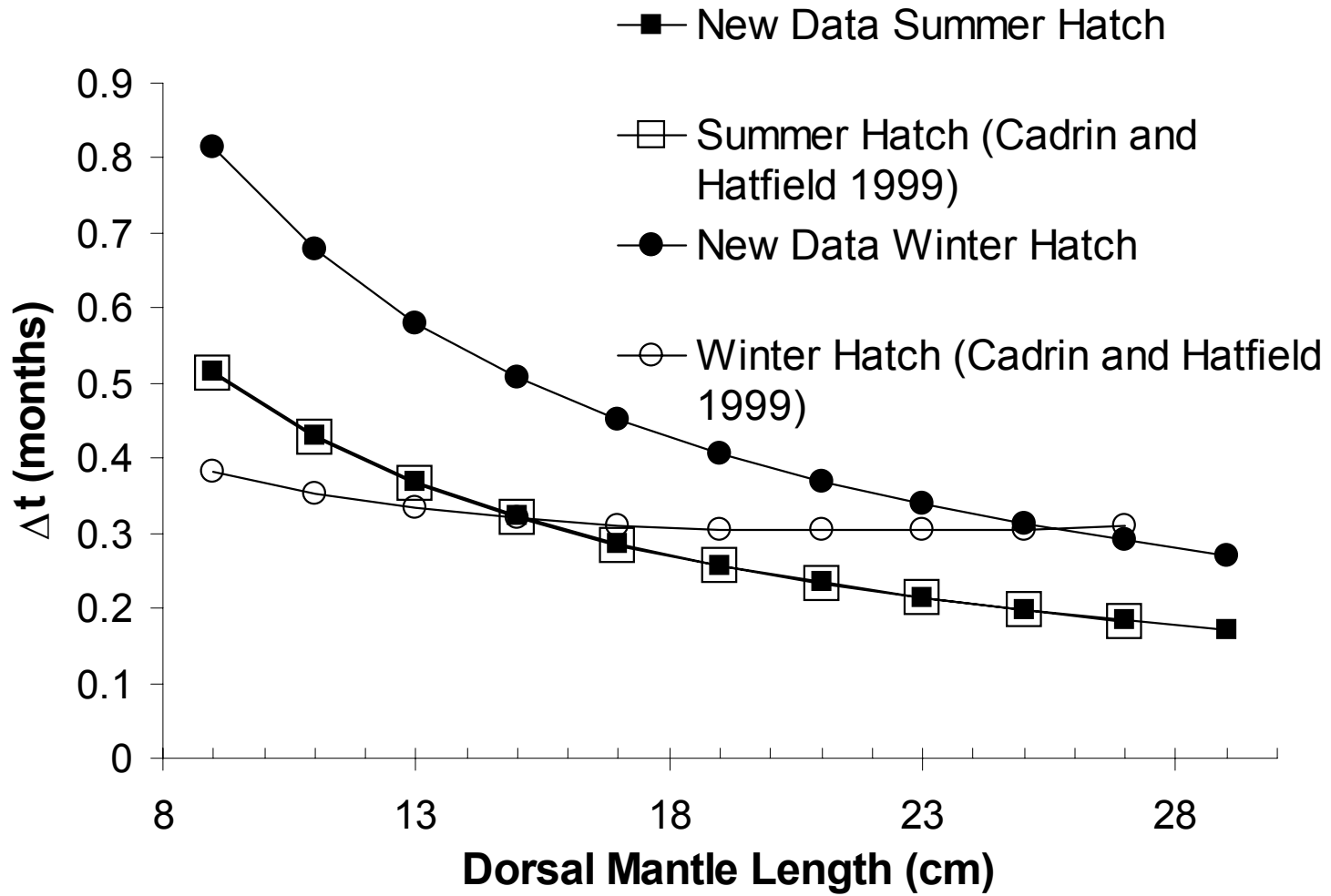


Figure A21. Delta-t values for longfin squid.

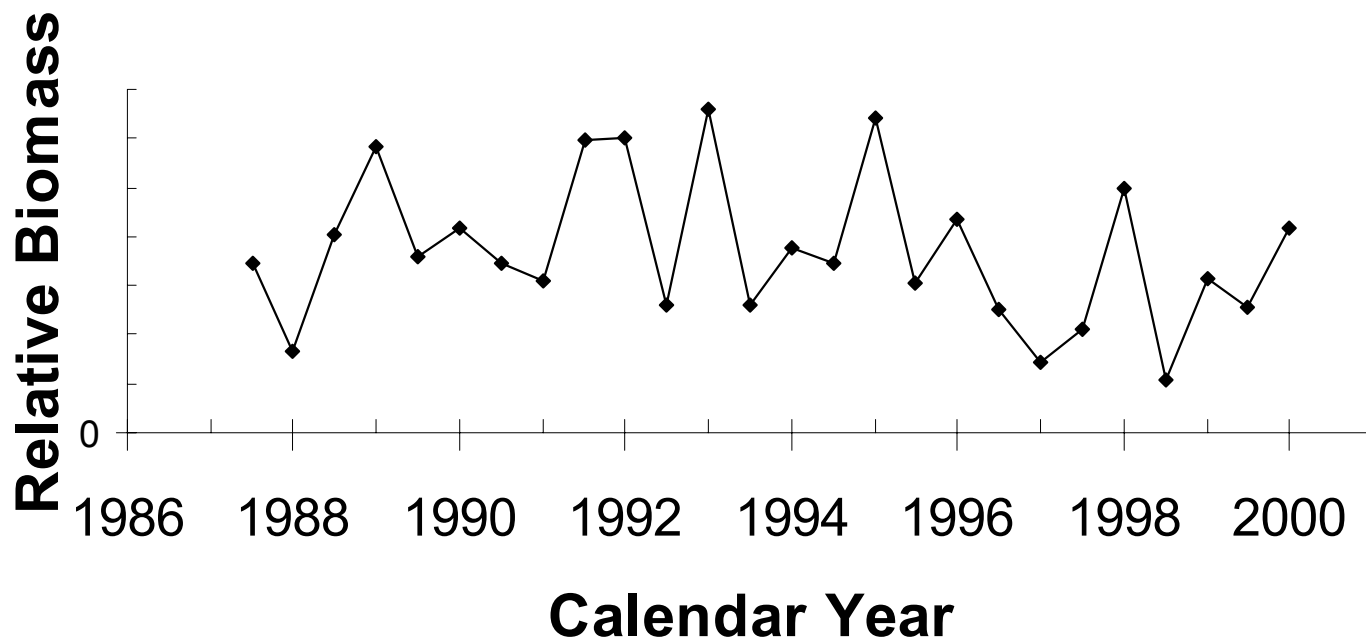


Figure A22. Relative biomass for longfin squid from LVPA.

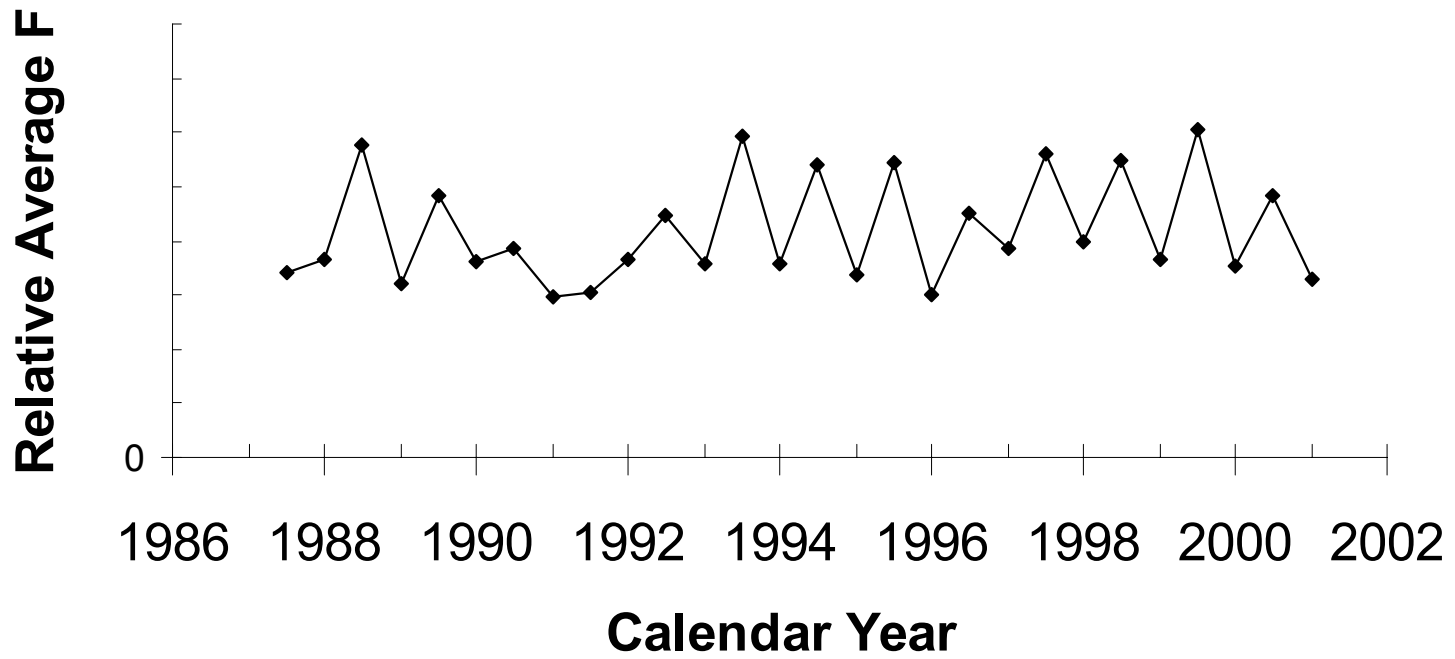


Figure A23. Relative biomass weighted F for longfin squid from LVPA

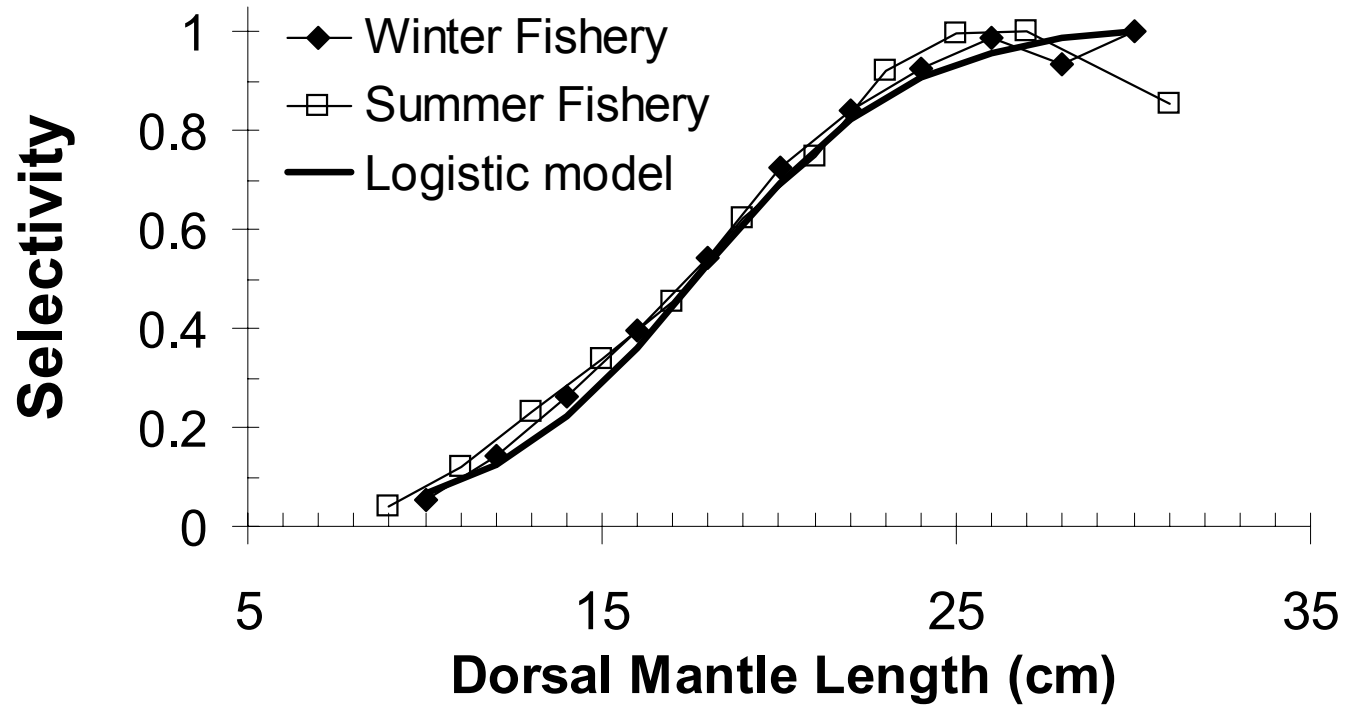


Figure A24. Fishery selectivity for longfin squid from LVPA

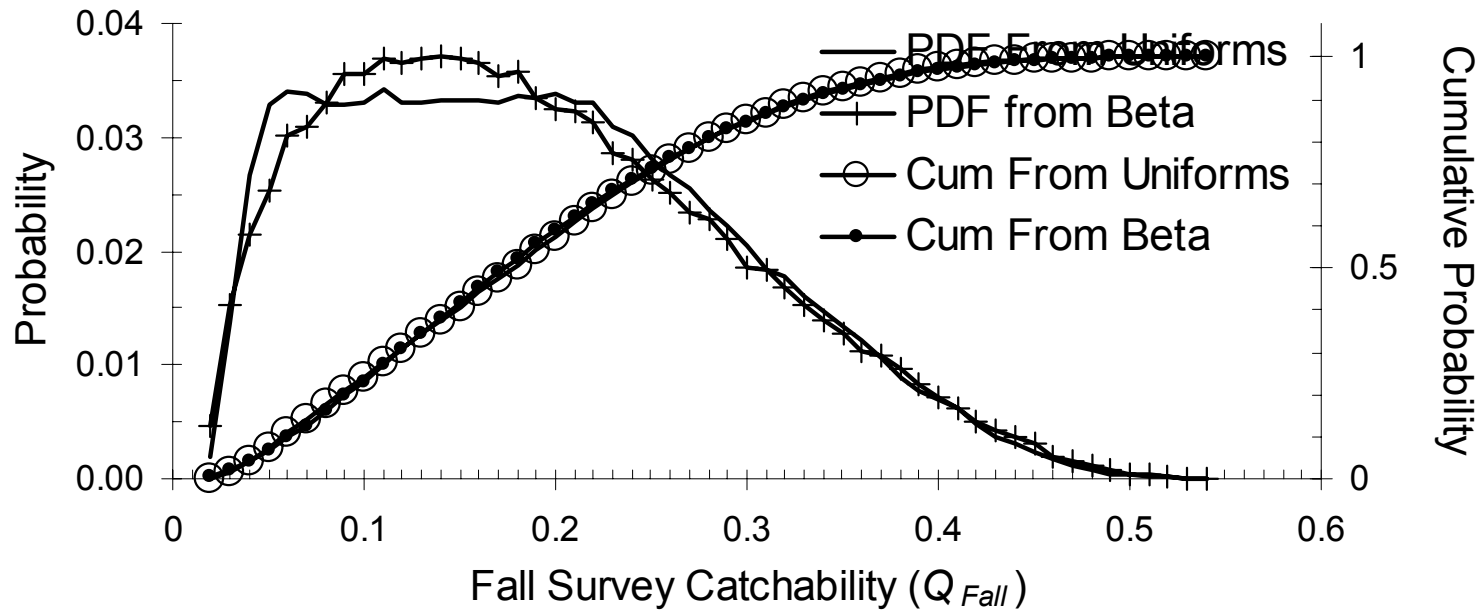


Figure A25. Uncertainty in NEFSC autumn survey catchability based on 100,000 simulated values.

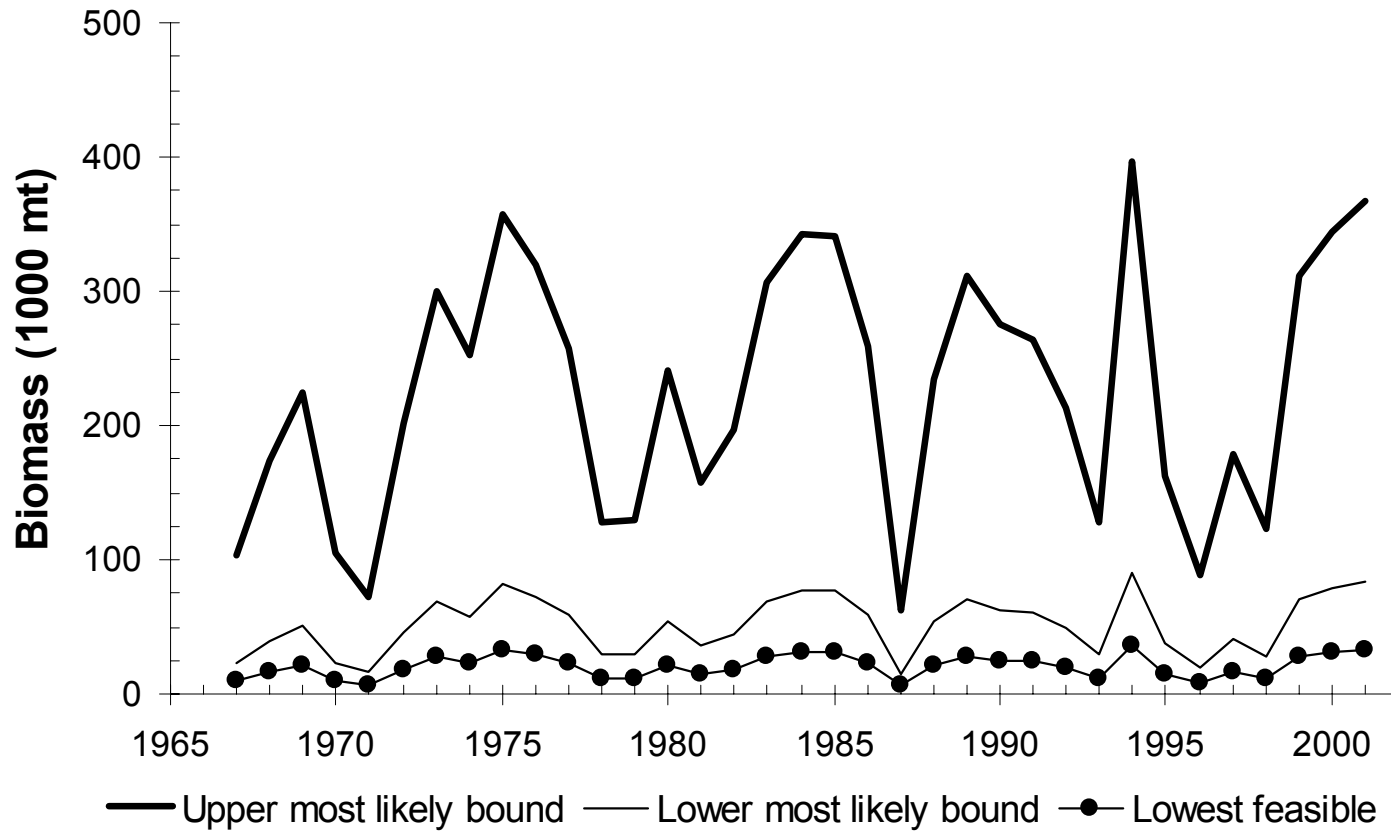


Figure A26. Scaled autumn longfin squid catch-survey biomass estimates.

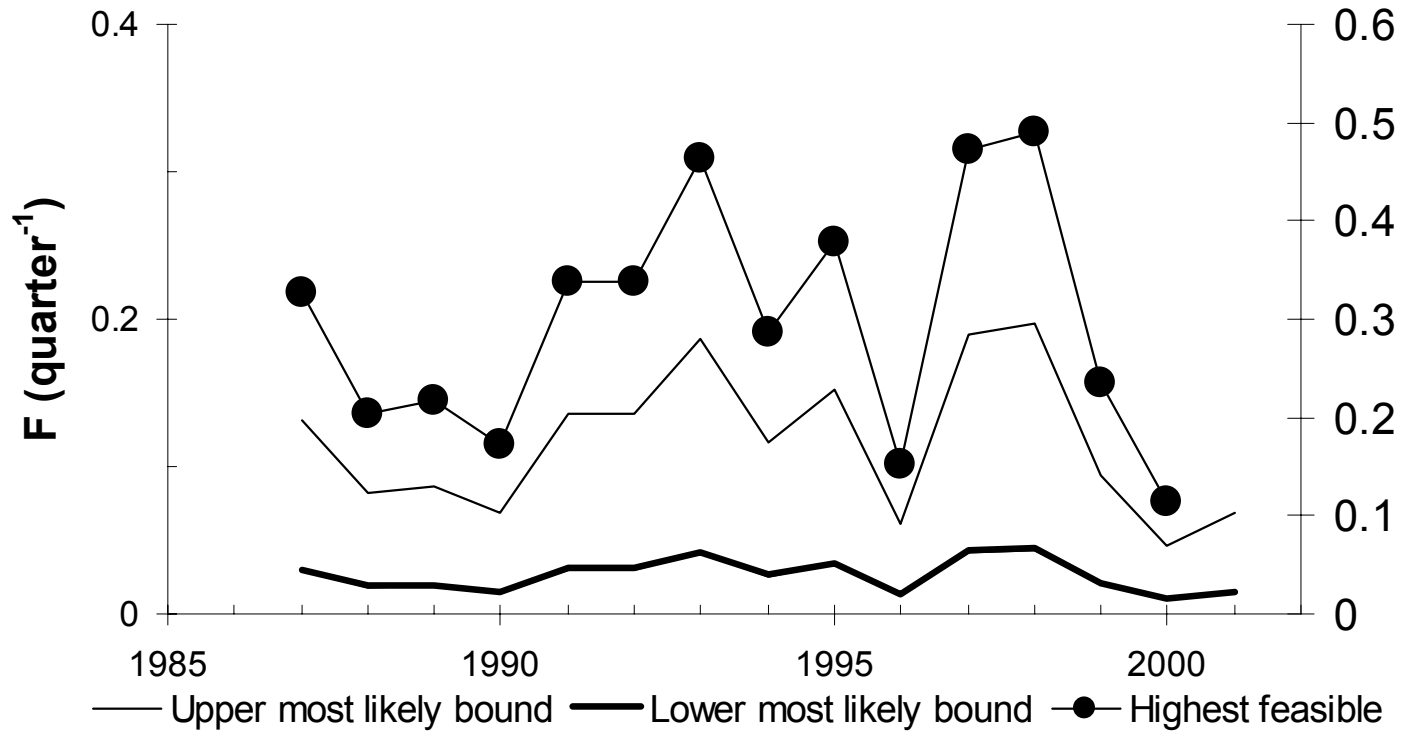


Figure A27. Scaled autumn catch-survey fishing mortality rates for longfin squid.

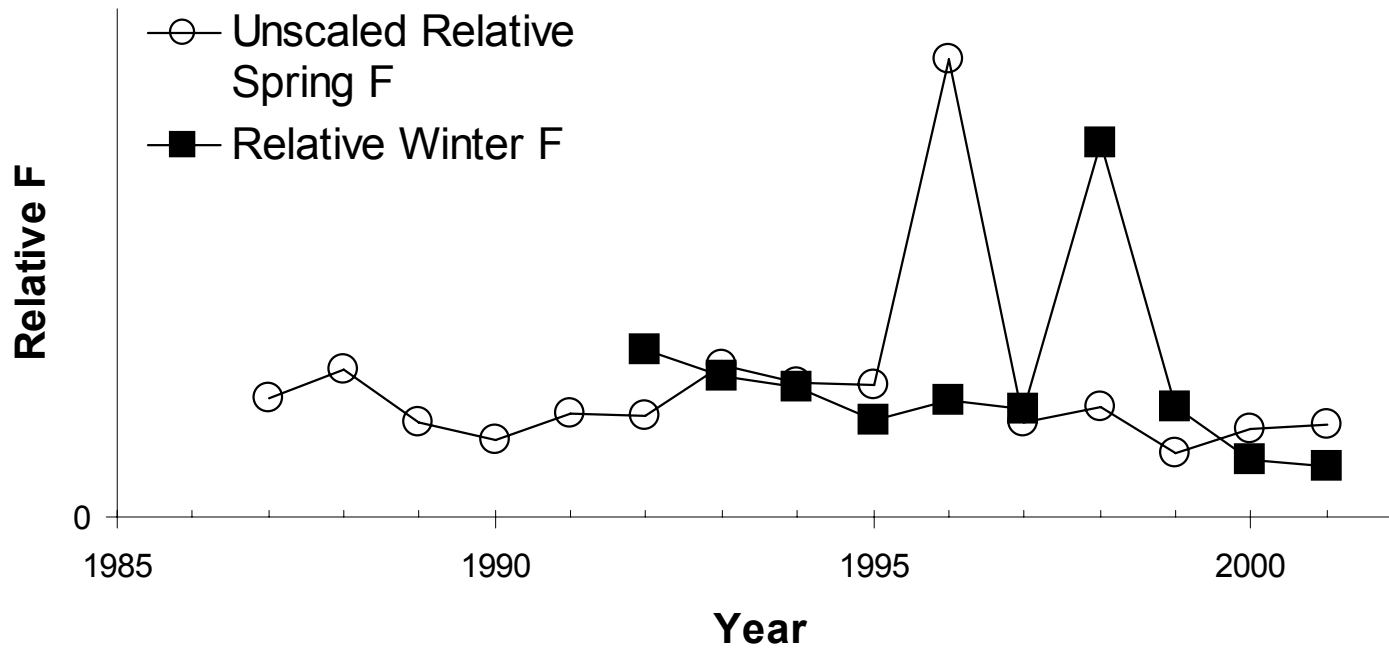


Figure A28. Unscaled relative spring and winter catch-survey F for longfin squid.

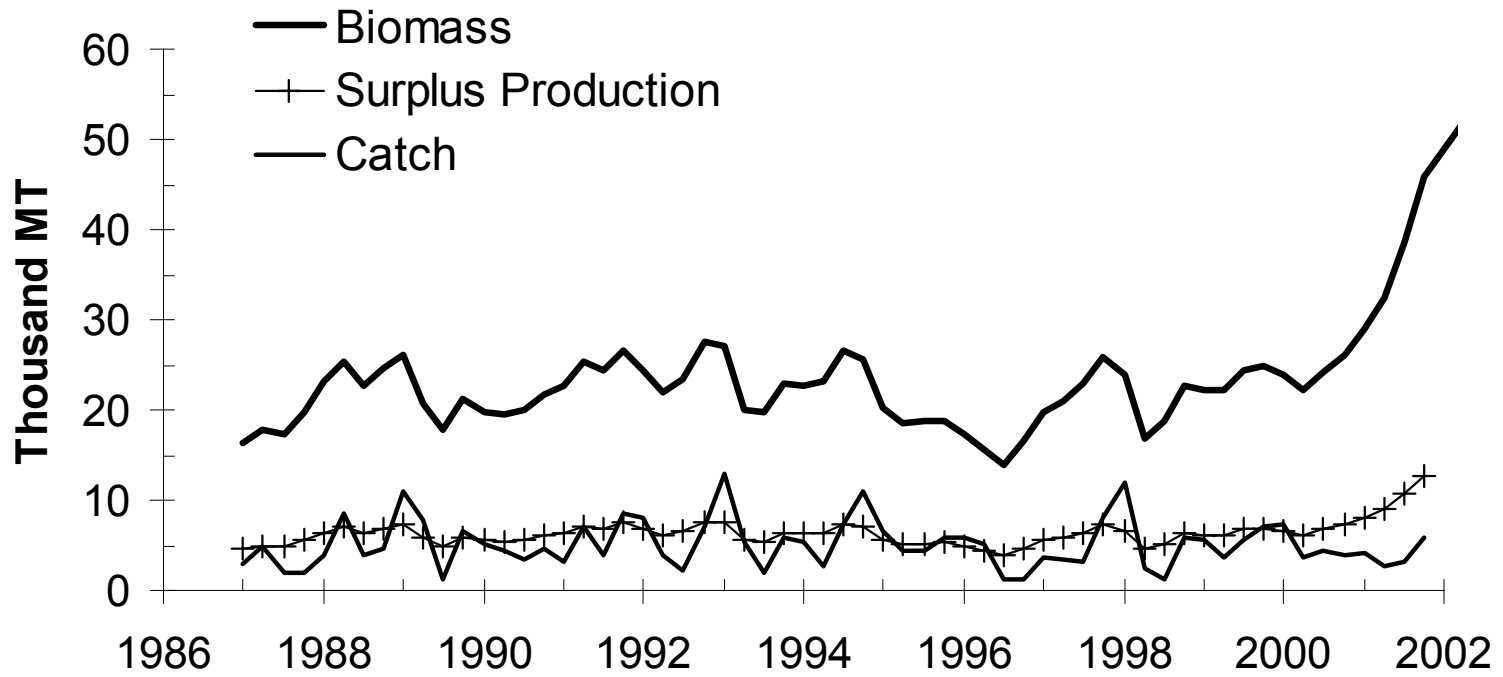


Figure A29. PDQ basecase estimates of biomass, catch and surplus production for longfin squid.

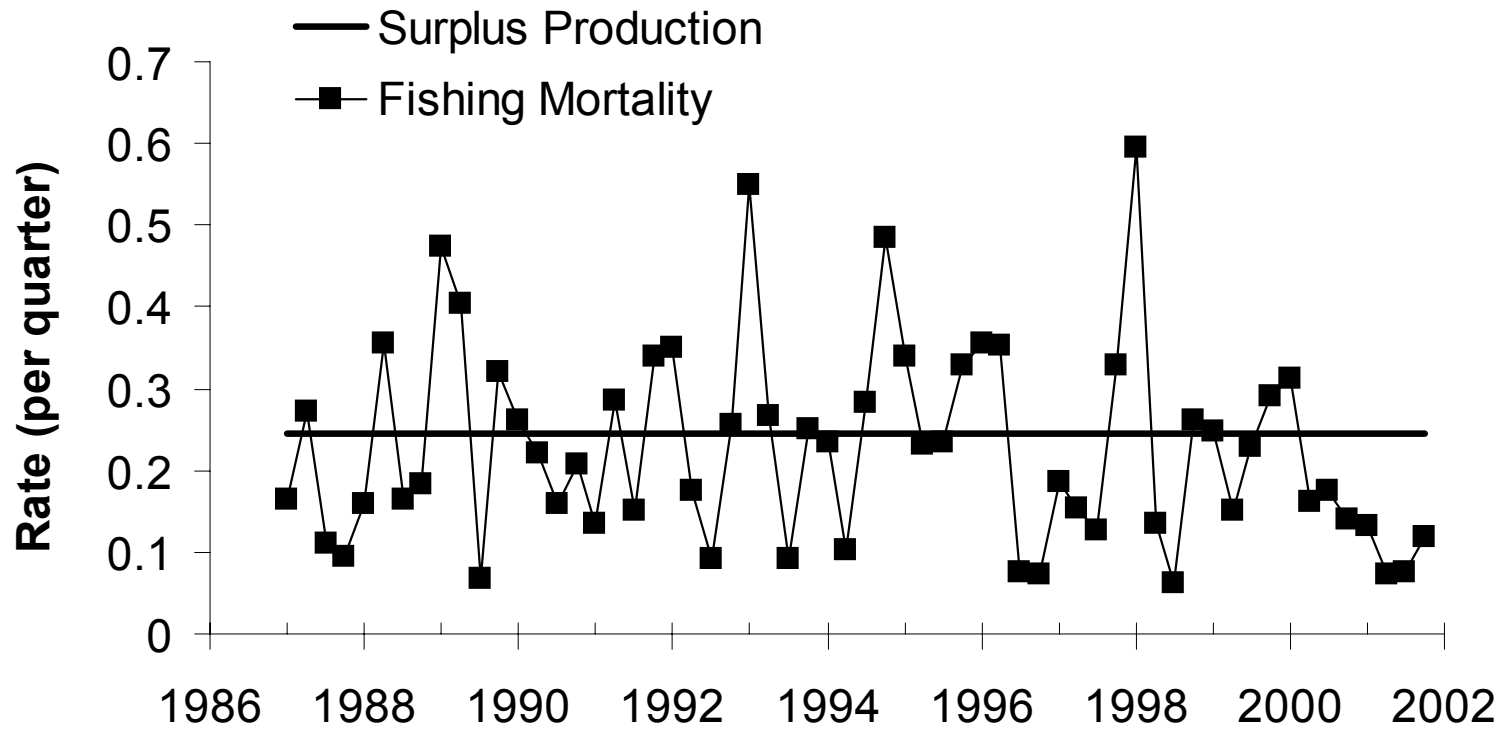


Figure A30. PDQ basecase estimates of surplus production and fishing mortality rates for longfin squid.

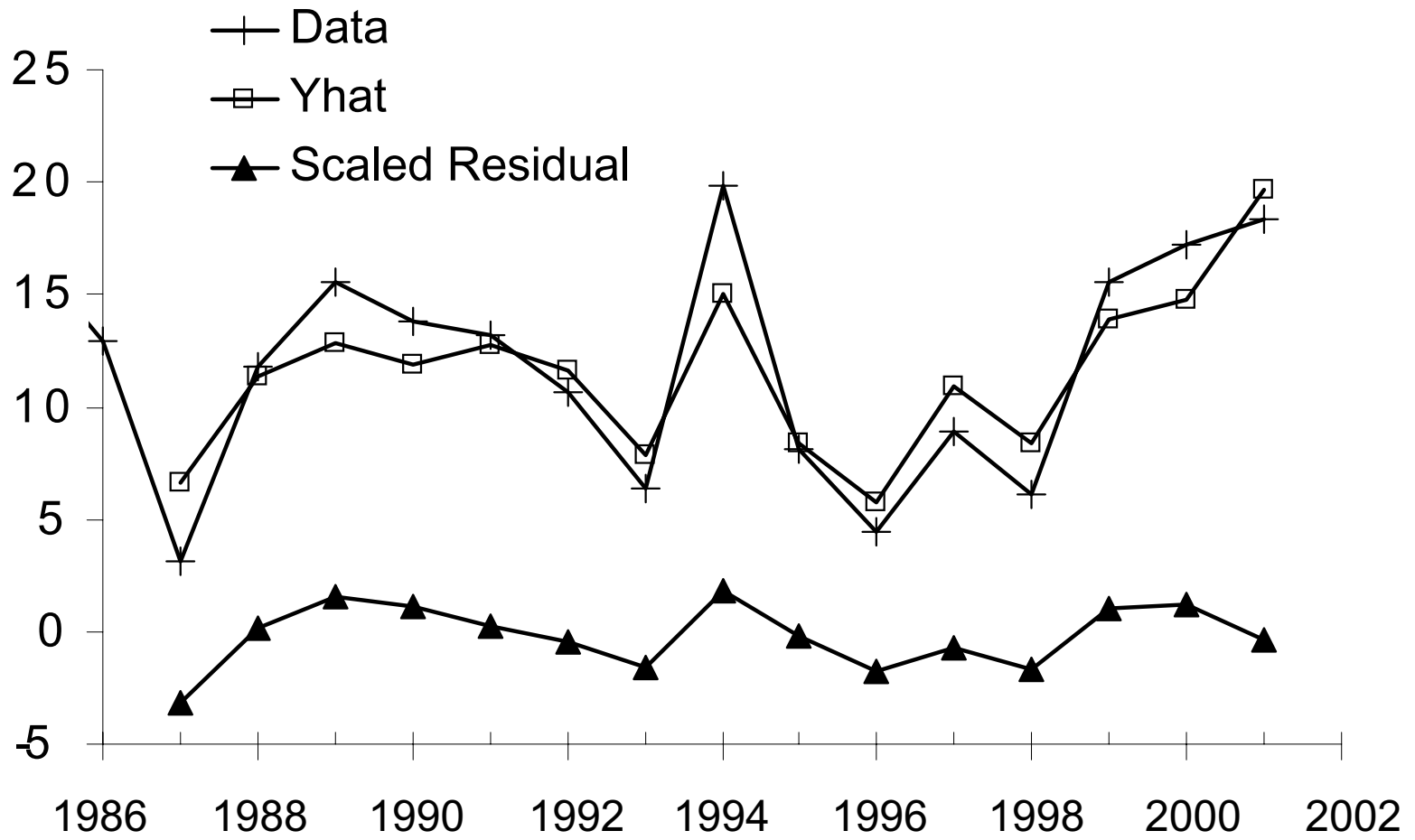


Figure A31. NEFSC autumn bottom trawl survey data, predicted values and residuals for longfin quid from basecase PDQ model.

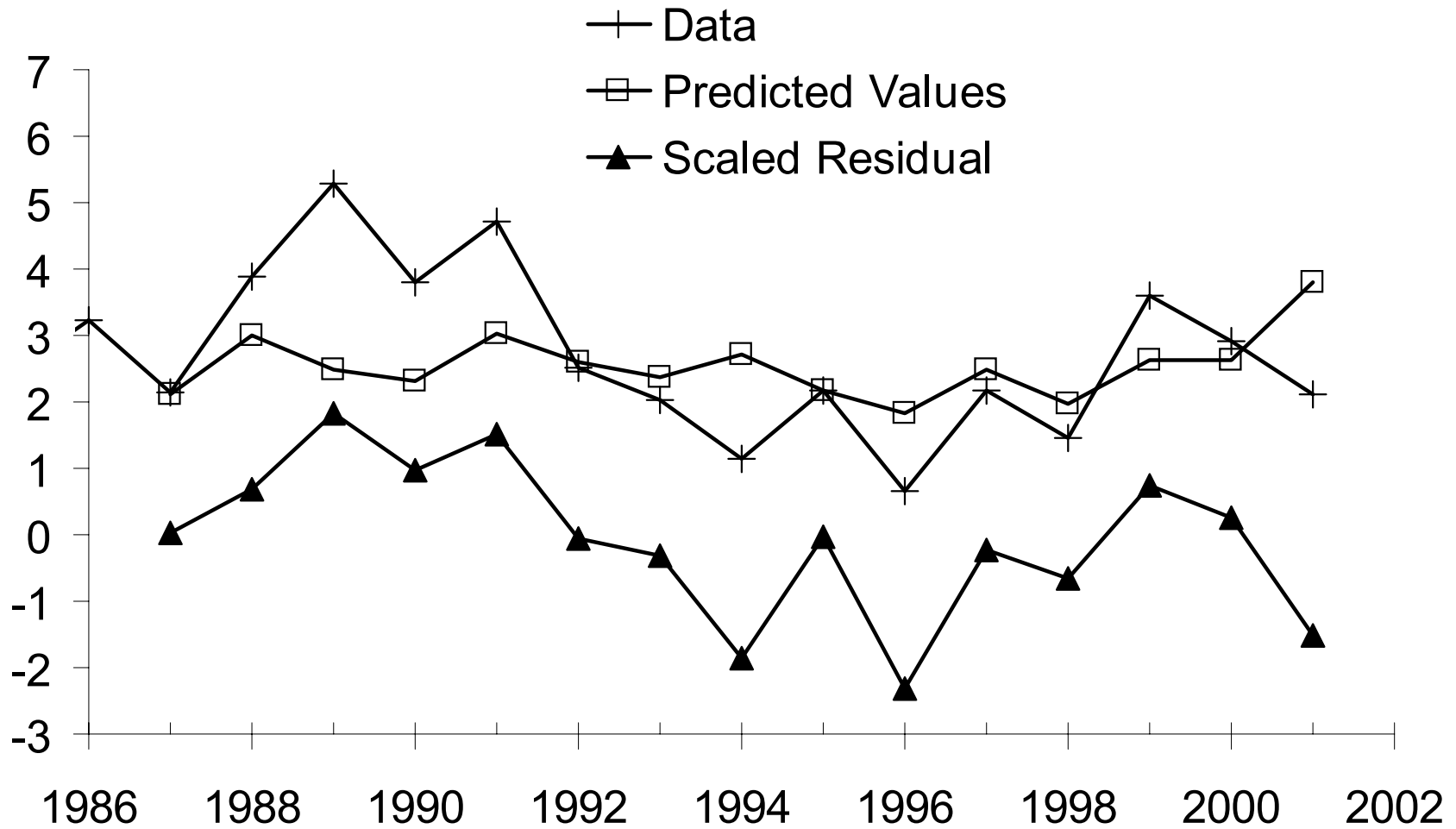


Figure A32. NEFSC spring bottom trawl survey data, predicted values and residuals for longfin squid from the basecase PDQ model.

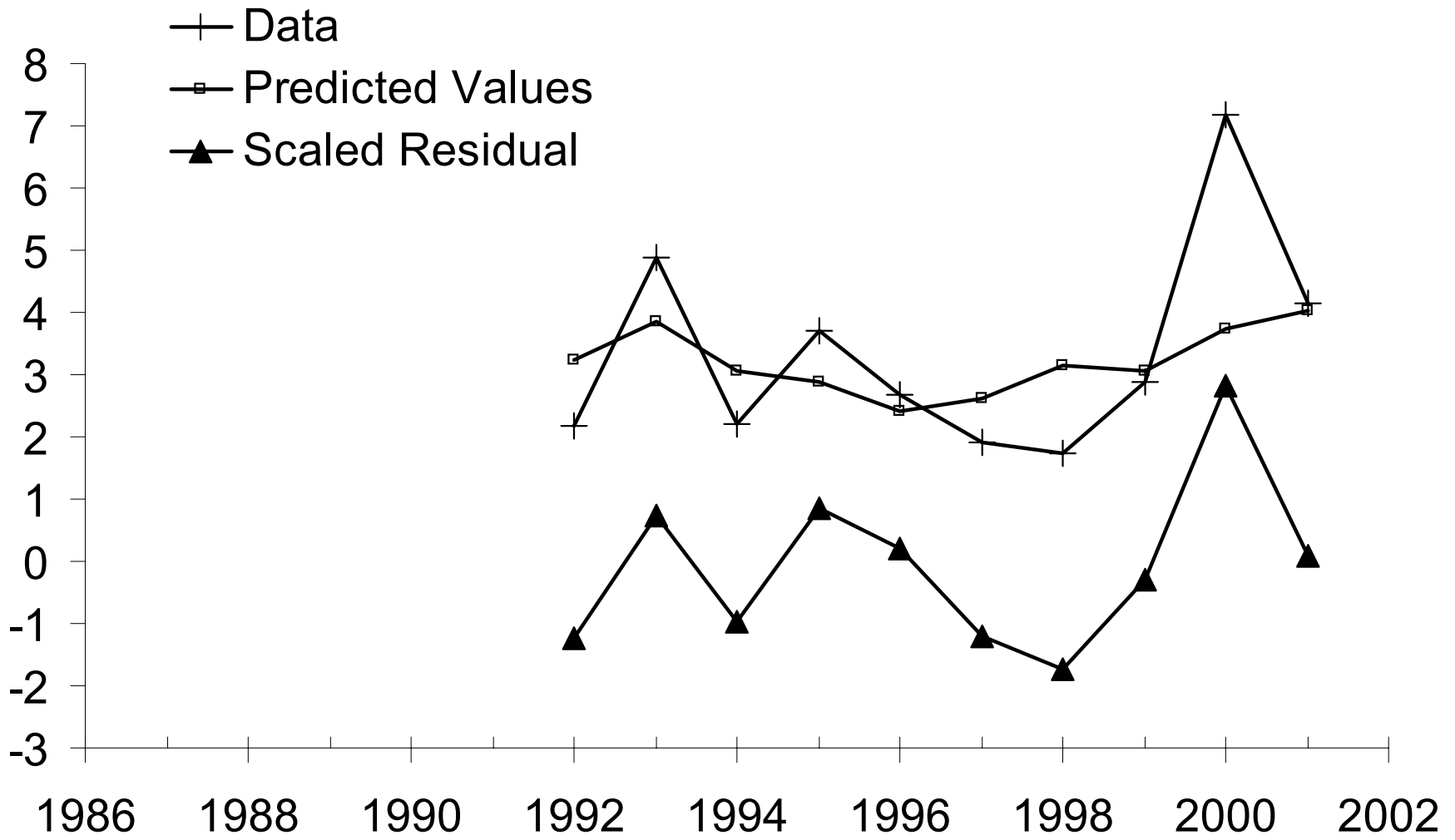


Figure A33. NEFSC winter bottom trawl survey data, predicted values and residuals for longfin squid from the basecase PDQ model.

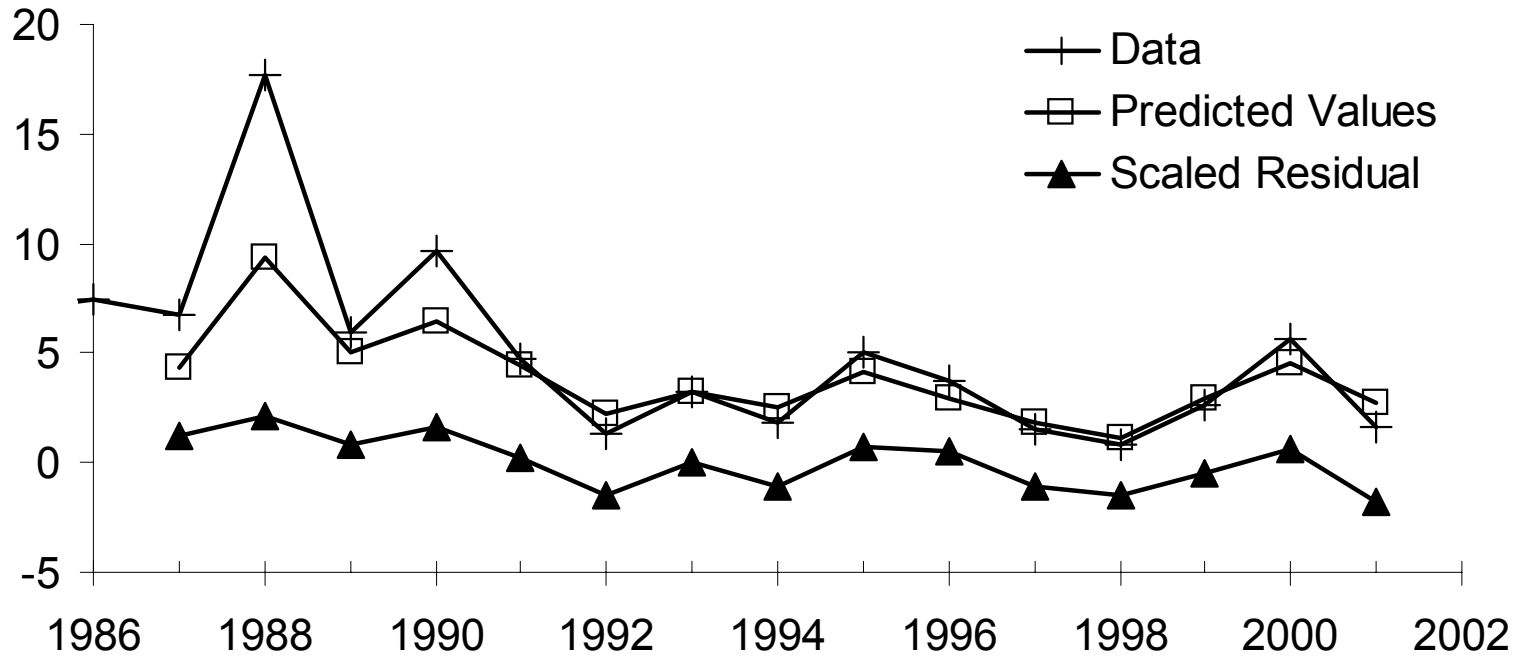


Figure A34. Massachusetts spring bottom trawl survey data, predicted values and residuals for longfin squid from the basecase PDQ model.

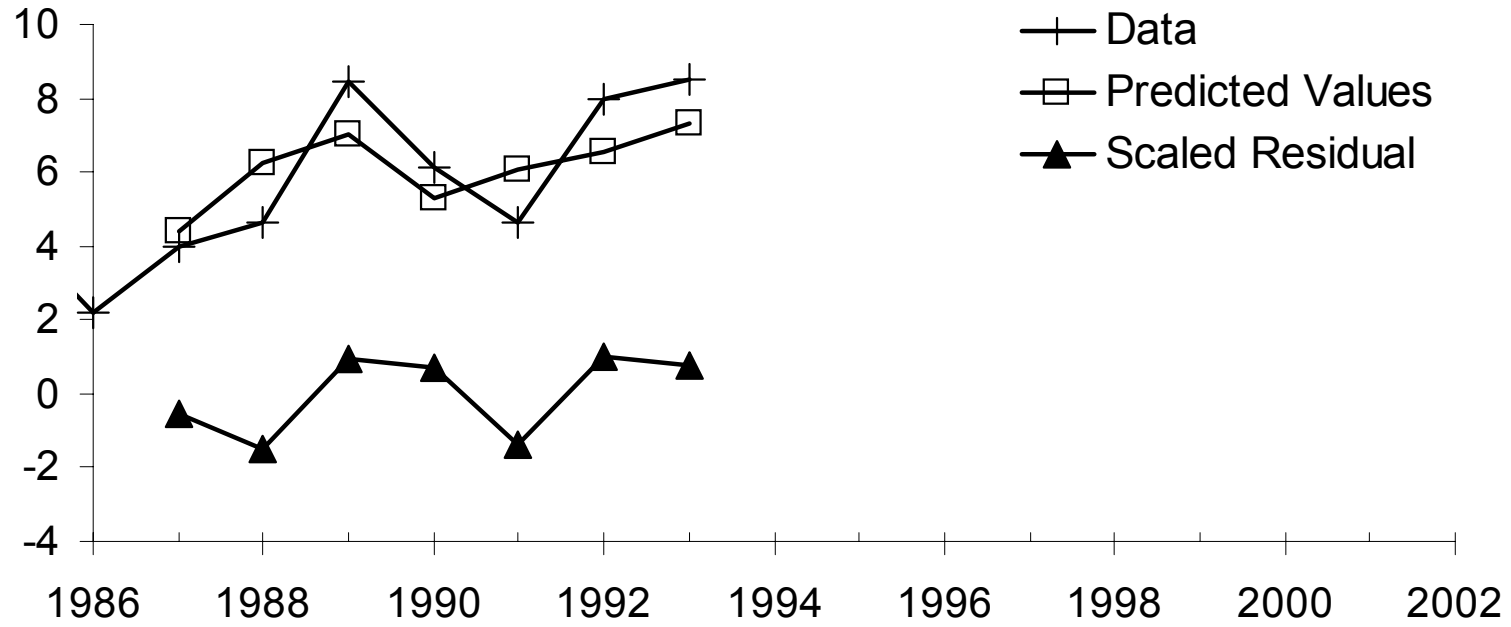


Figure A35. Winter LPUE data, predicted values and residuals for longfin squid from the basecase PDQ model.

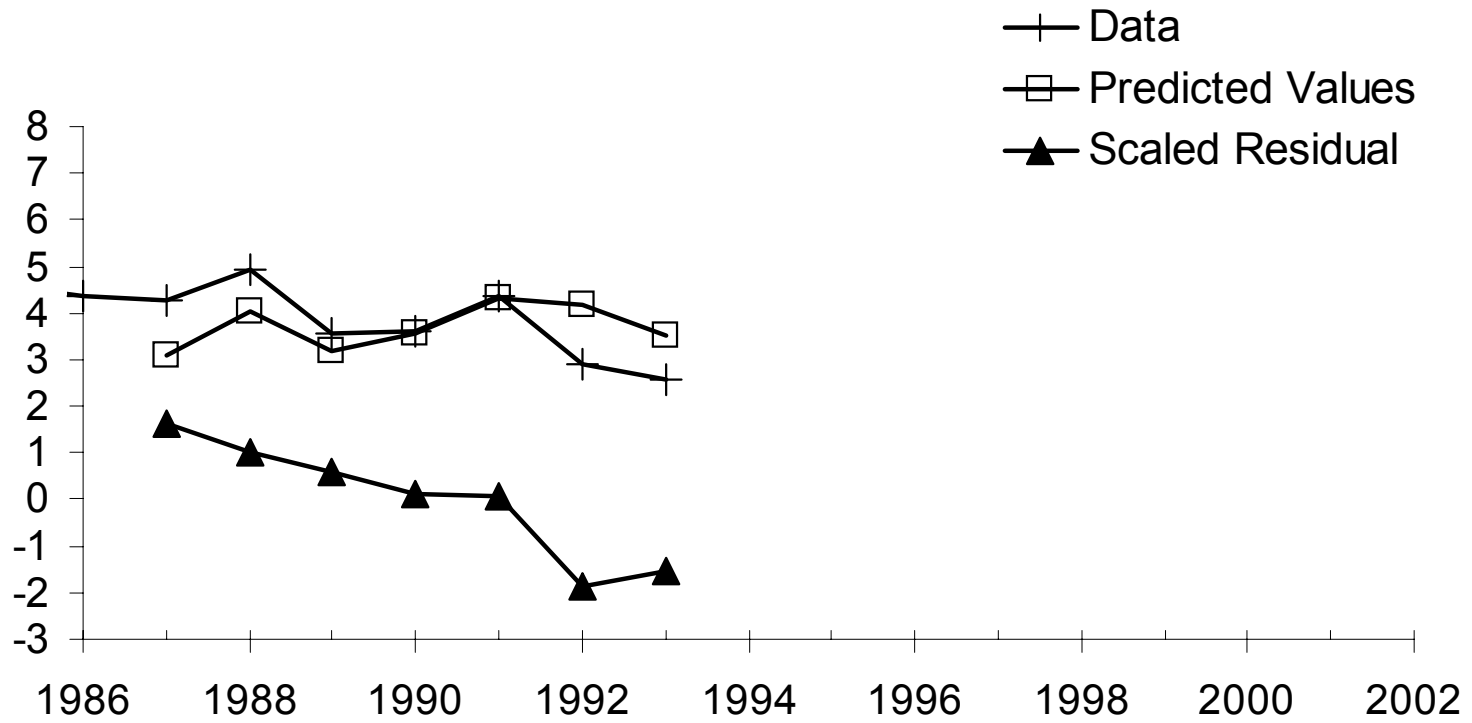


Figure A36. Summer LPUE data, predicted values and residuals for longfin squid from the basecase PDQ model.

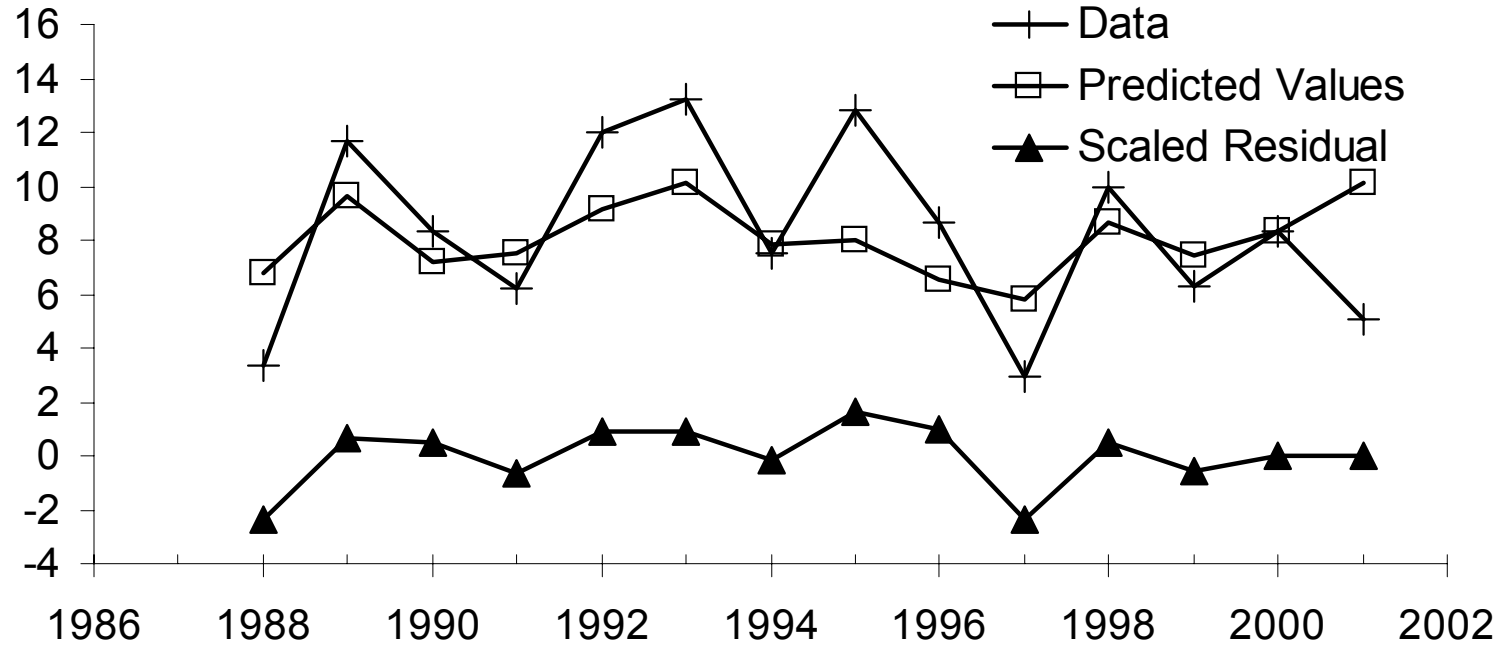


Figure A37. Winter LVPA data, predicted values and residuals for longfin squid from the basecase PDQ model.

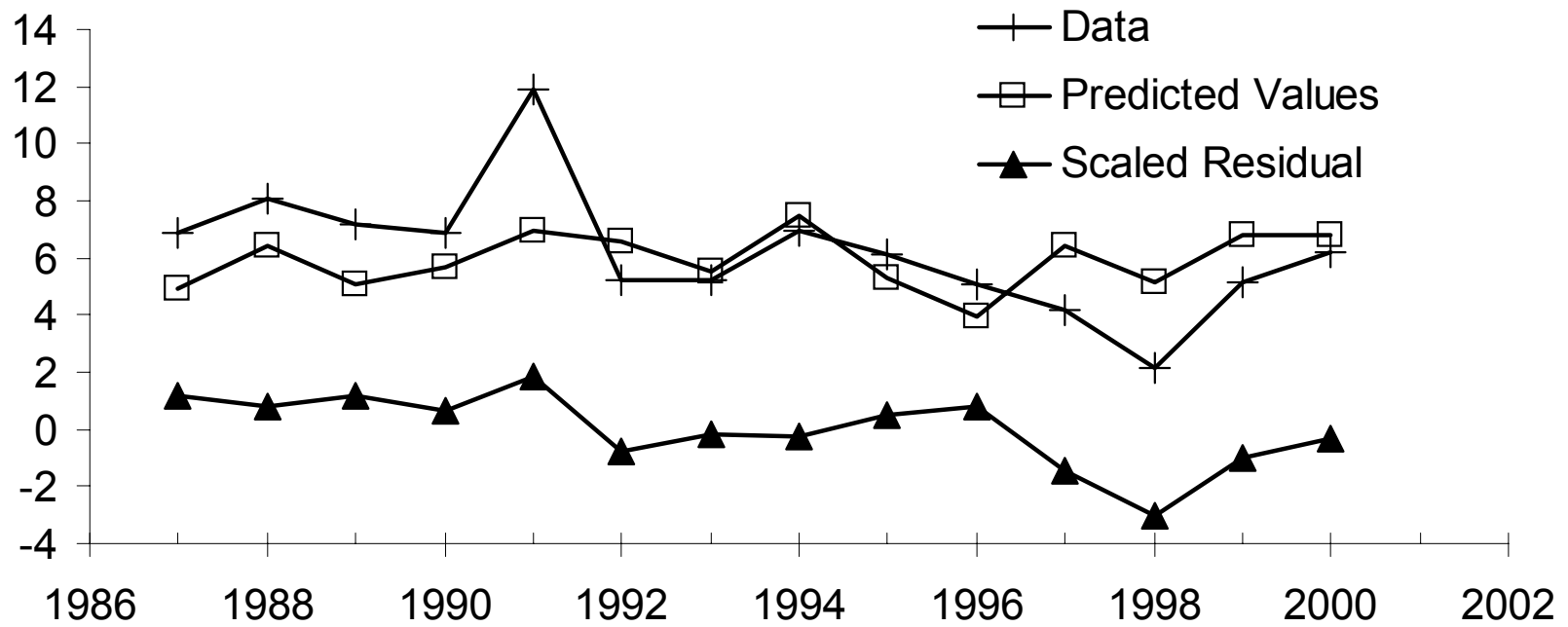


Figure A38. Summer LVPA data, predicted values and residuals for longfin squid from the basecase PDQ model.

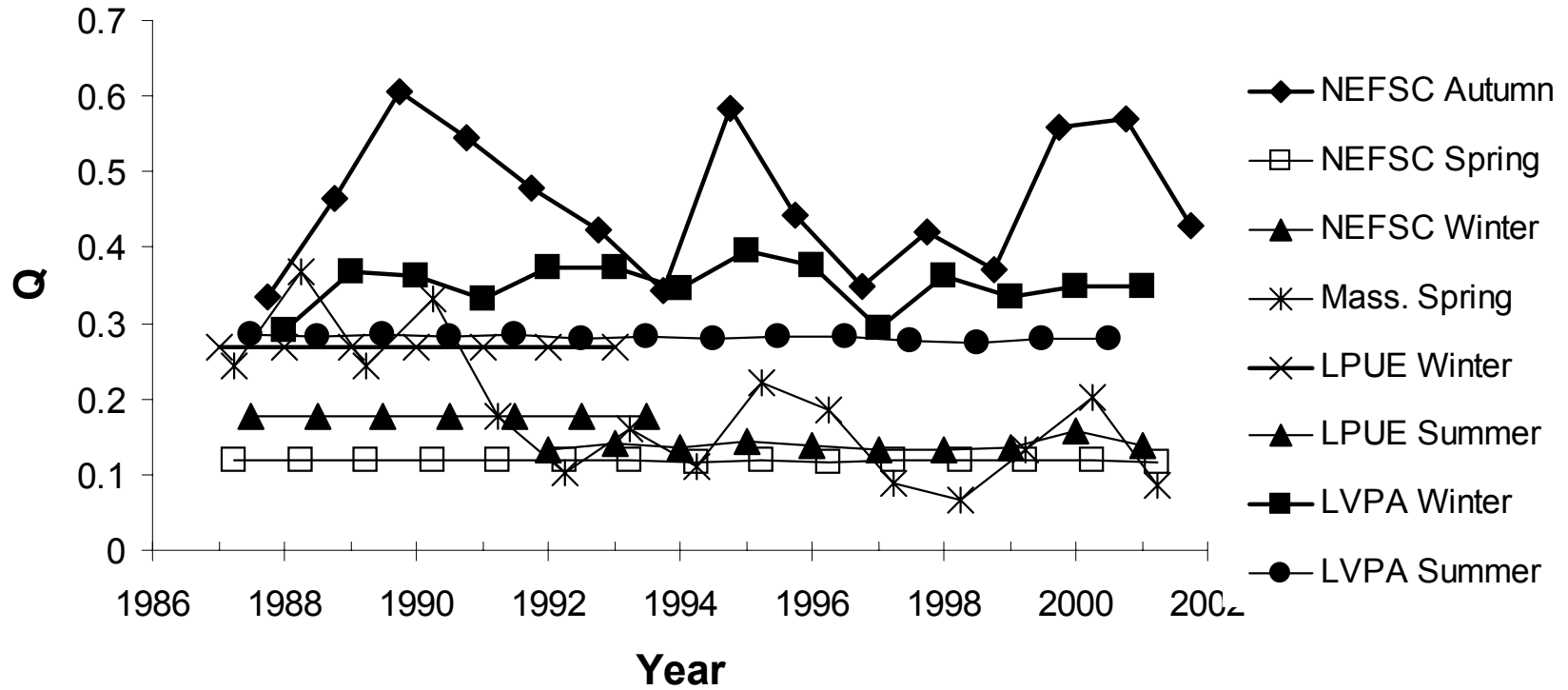


Figure A39. Q estimates for longfin squid abundance indices in the basecase PDQ model.

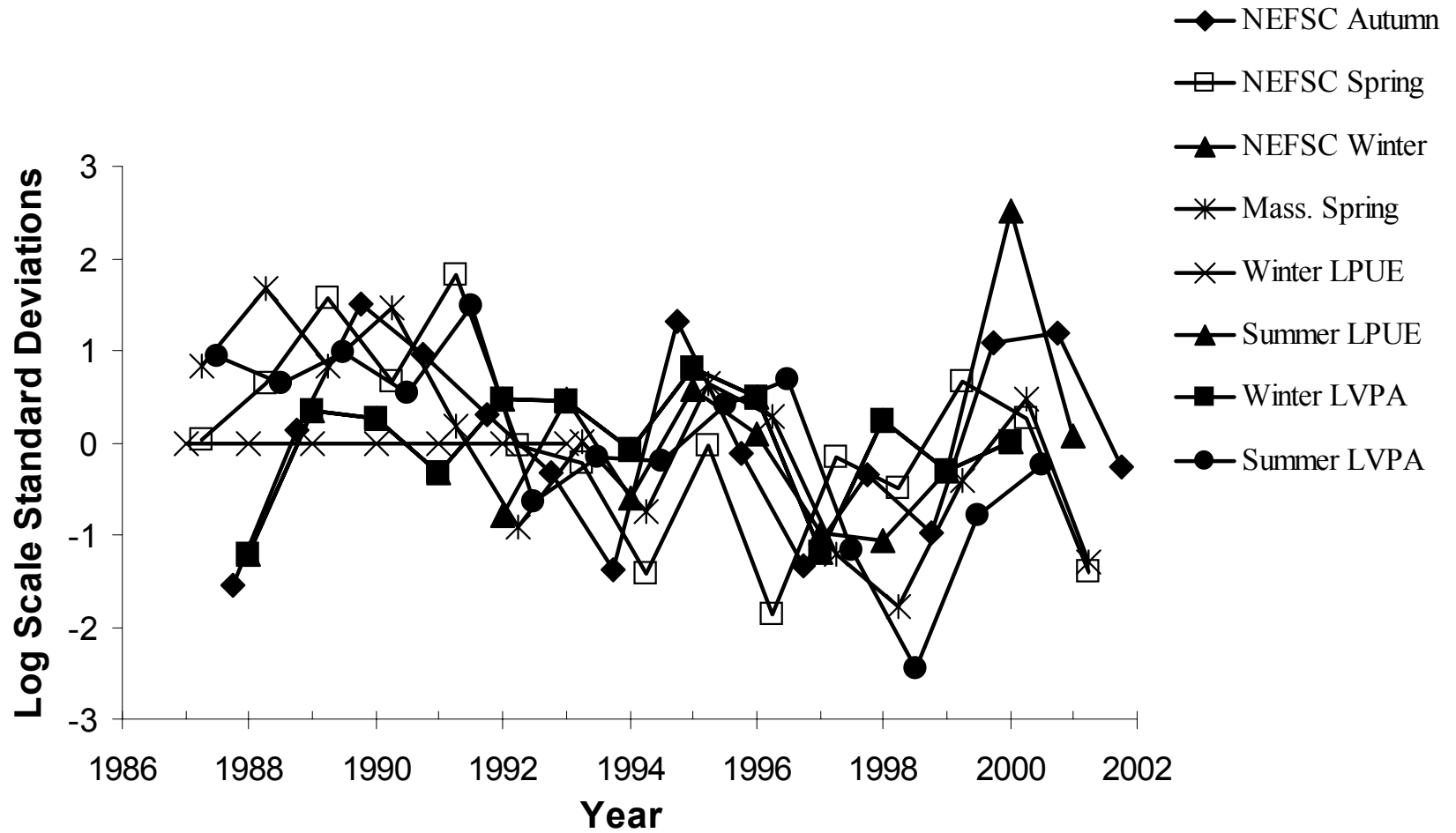


Figure A40. Anomalies in log scale Q for longfin squid abundance indices in the PDQ model.

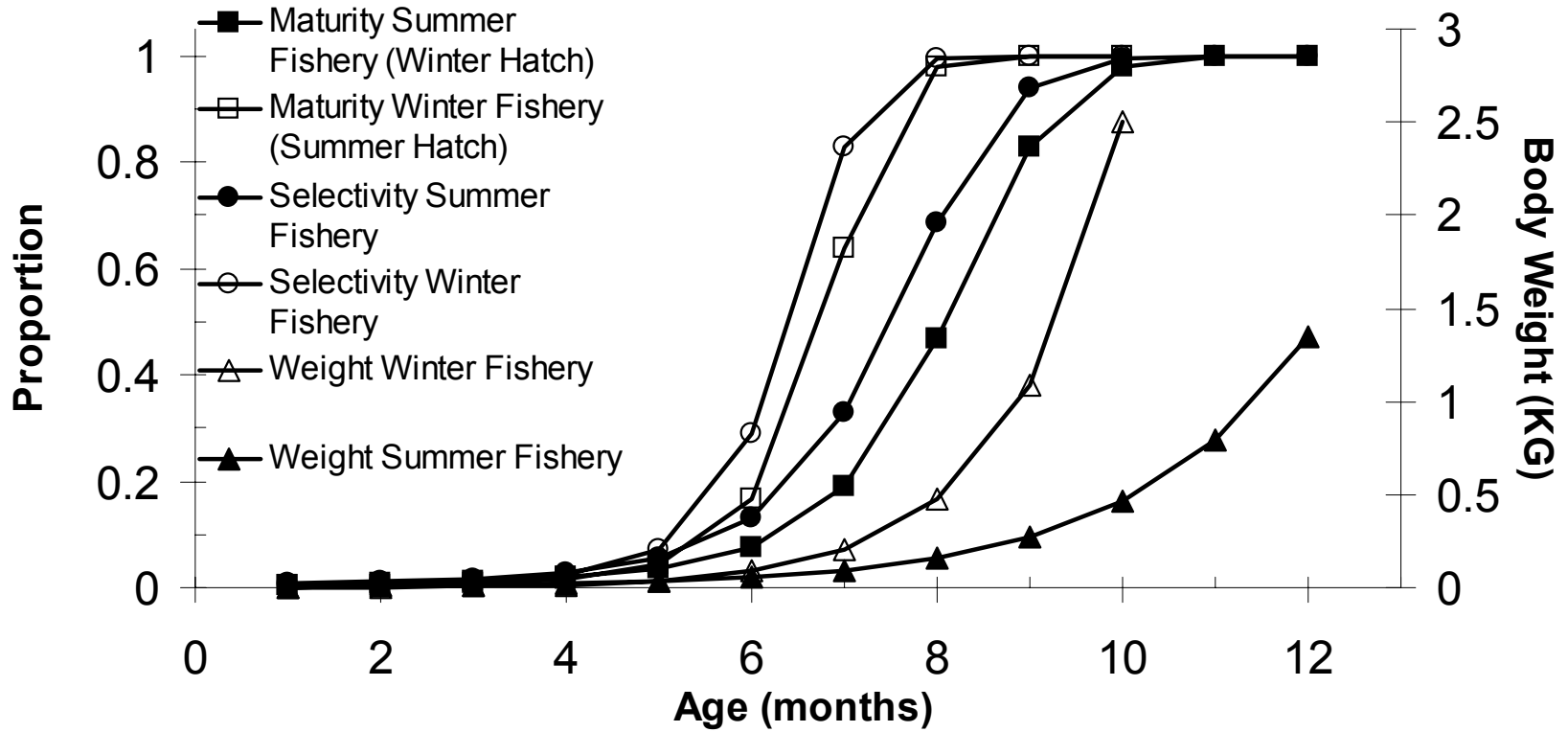


Figure A41. Data for longfin squid per-recruit model.

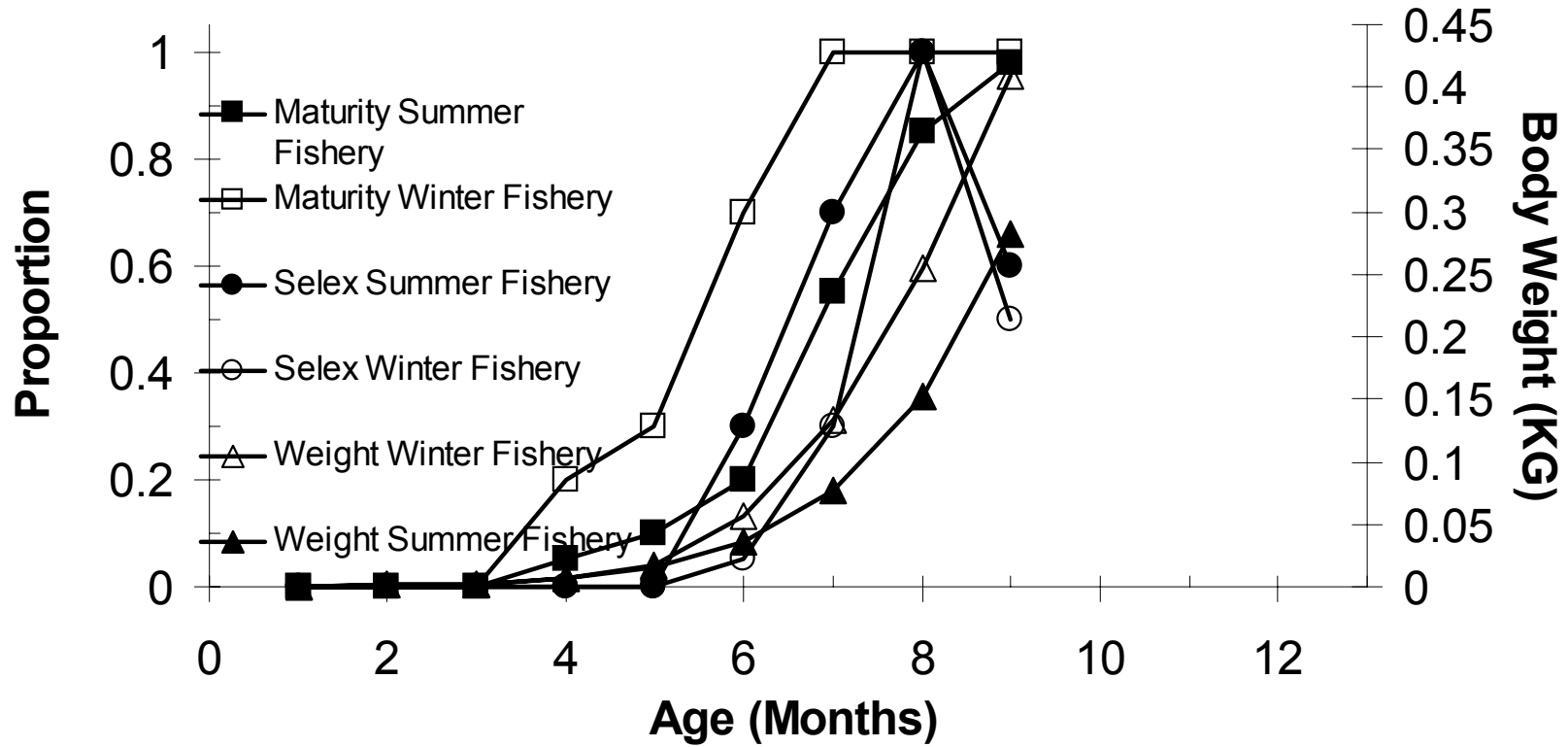


Figure A42. Data for longfin squid per-recruit model in Cadrin and Hatfield (1999)

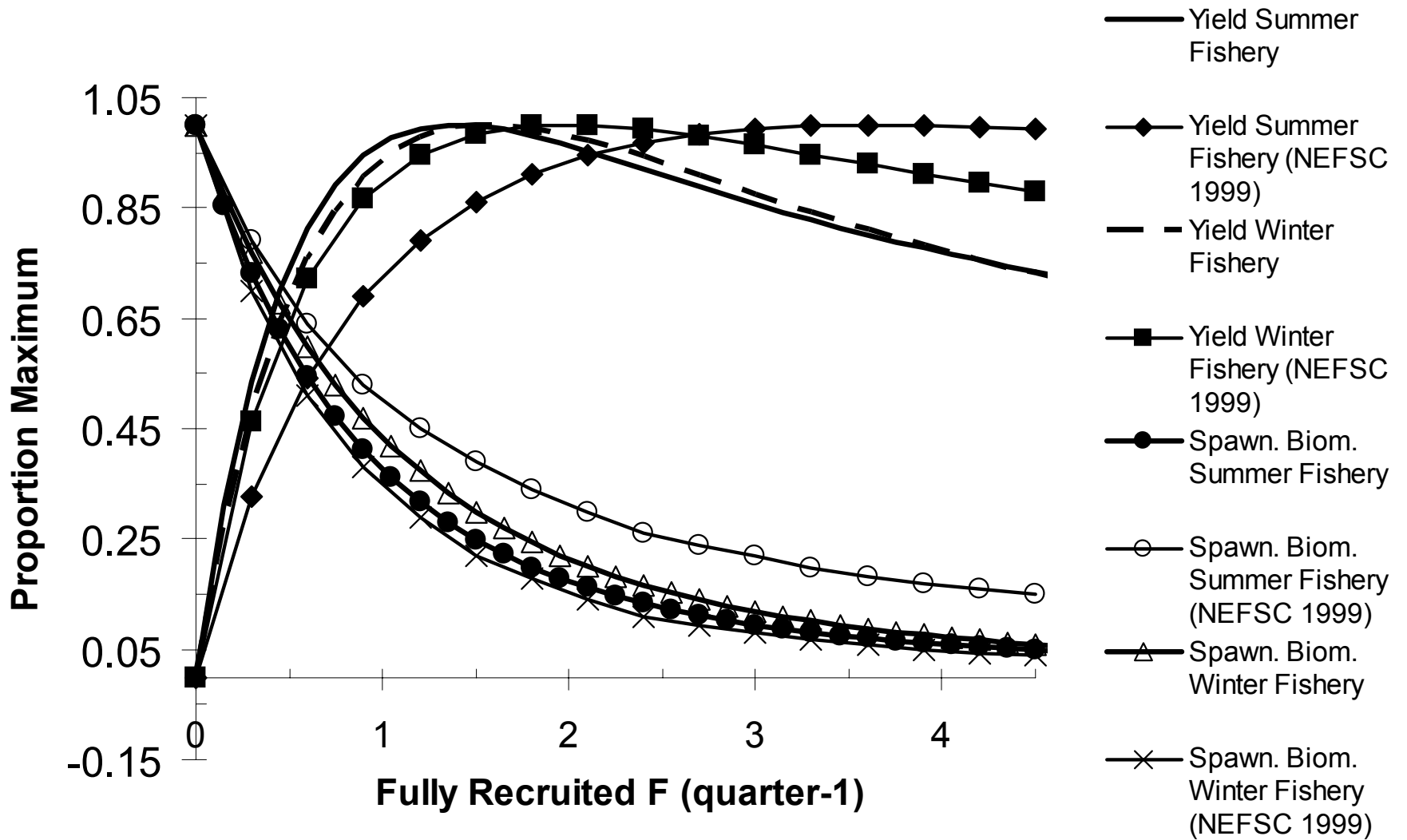


Figure A43. Per recruit results for longfin squid (full recruit F's).

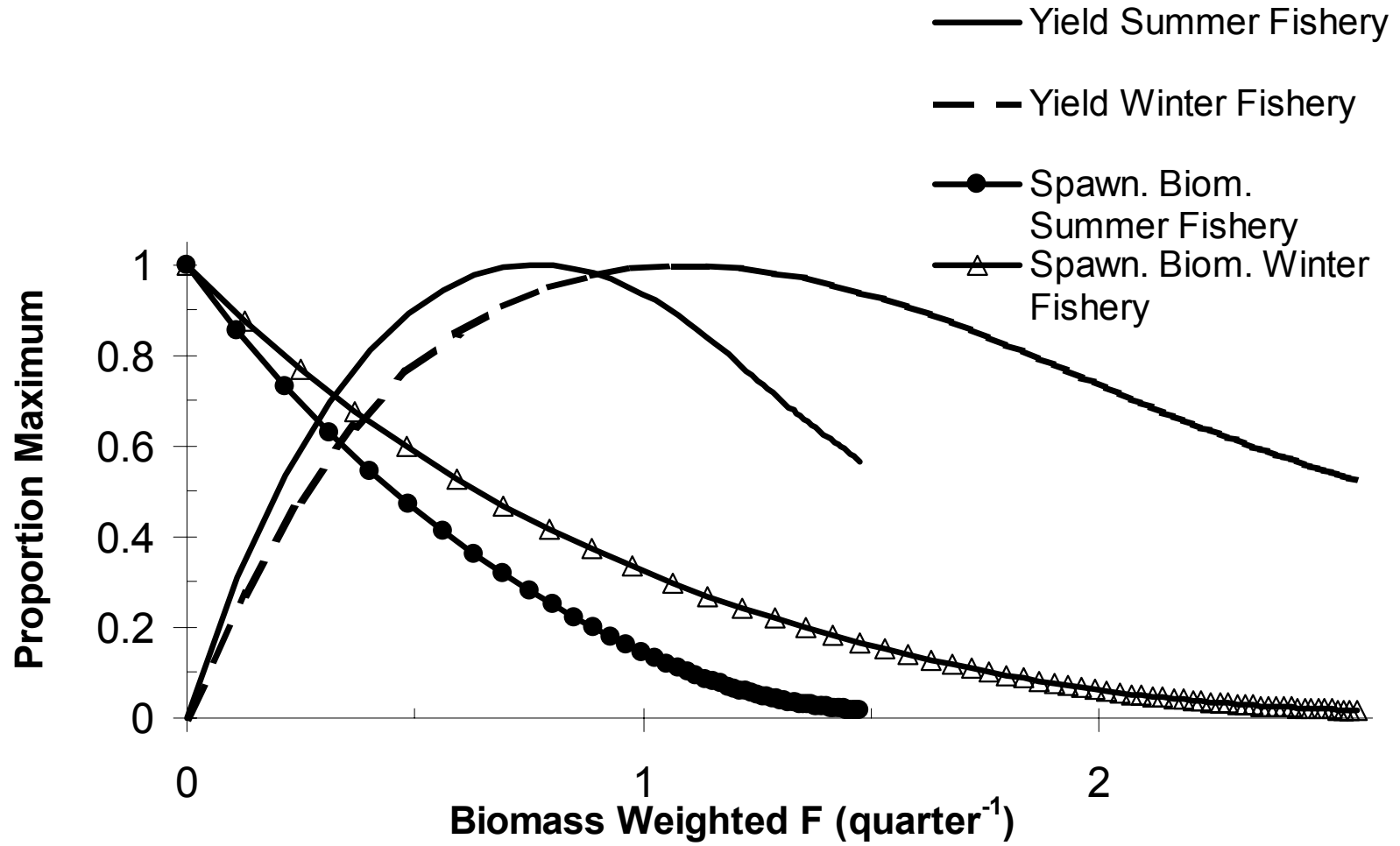


Figure A44. Per recruit result for longfin squid (biomass weighted F's).

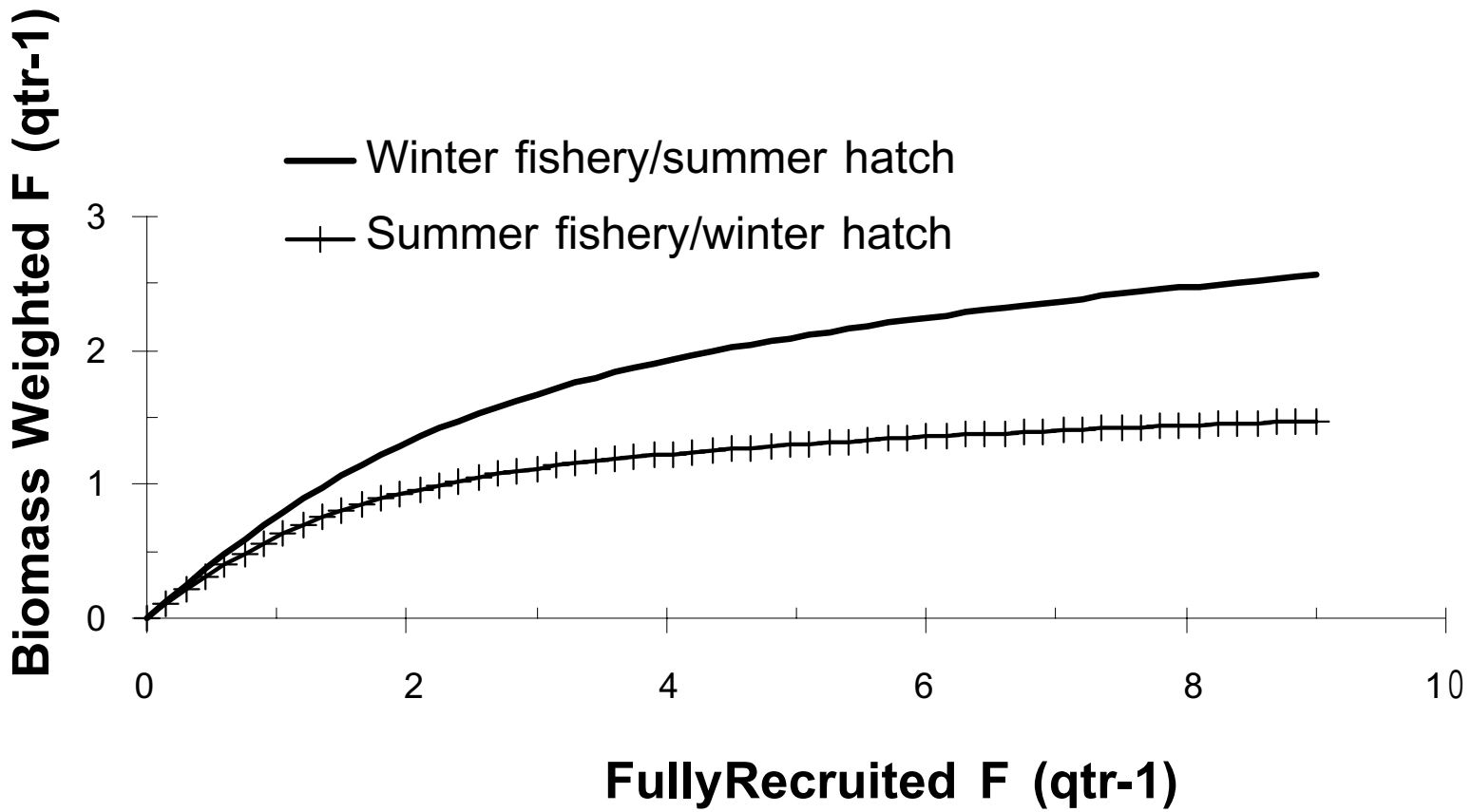


Figure A45. Biomass weighted and fully recruited F from per recruit models for longfin squid.

