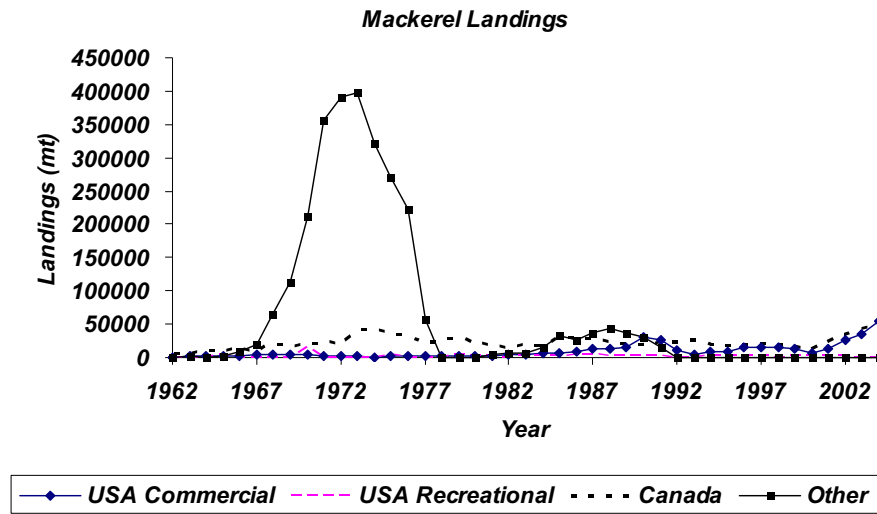


MACKEREL FIGURES

A.



B.

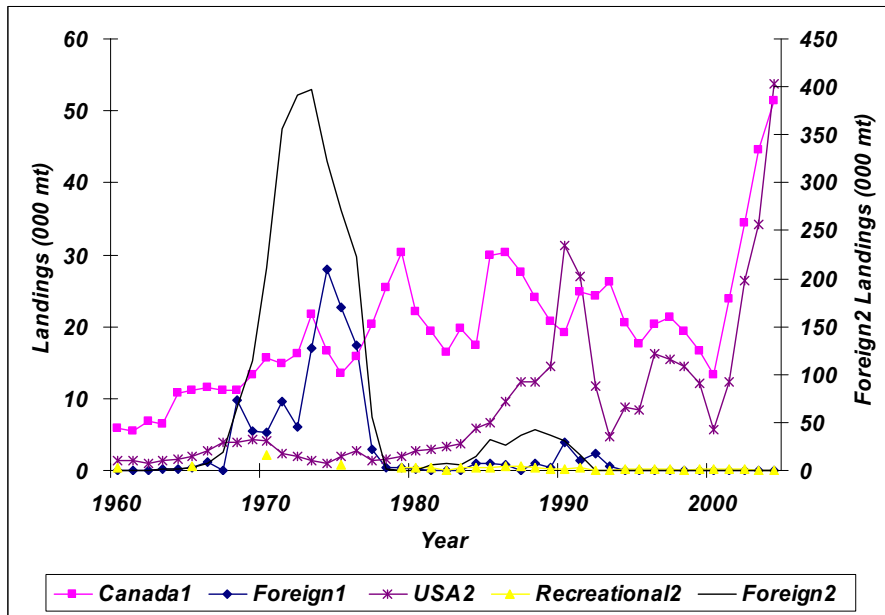


Figure B1. **A.** Landings of Atlantic mackerel in NAFO SA 2-6 during 1962-2004 by USA commercial, USA recreational, Canada, and other countries. **B.** Landings by Canadian vessels (Canada1) or foreign countries (Foreign1) in Canadian waters (SA 2-4). Landings by USA vessels (USA2), recreational sources (Recreational2), or foreign countries (Foreign2) in USA waters (SA5-6).

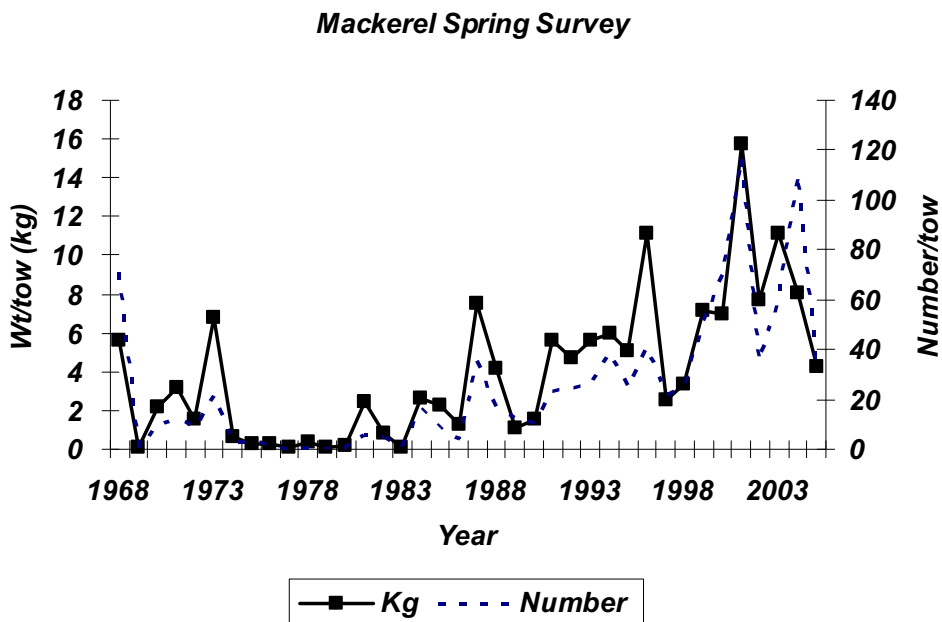


Figure B2. Mackerel Spring bottom trawl survey indices in wt/tow and number/tow during 1968-2005.

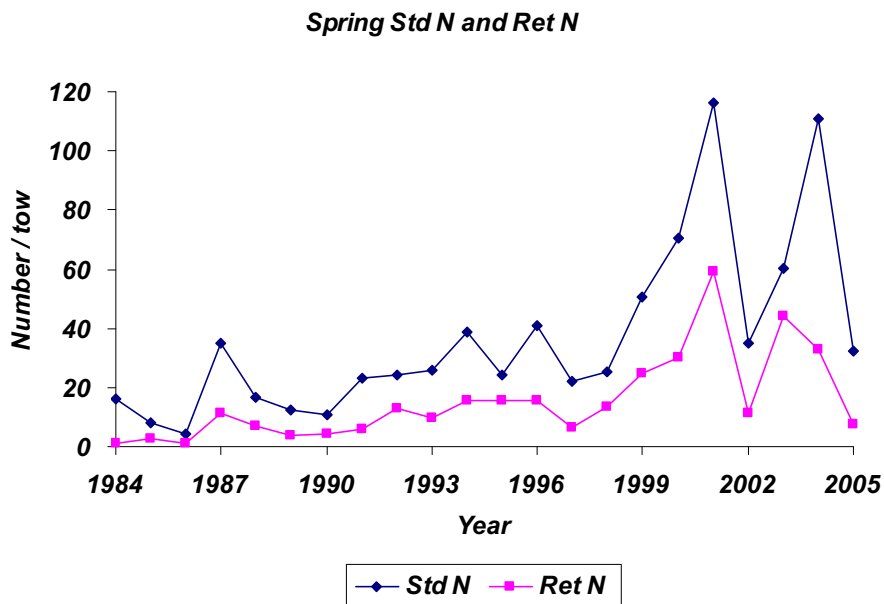


Figure B3. Mackerel Spring bottom trawl survey indices number/tow (standard-std and log retransformed-ret) during 1984-2005.

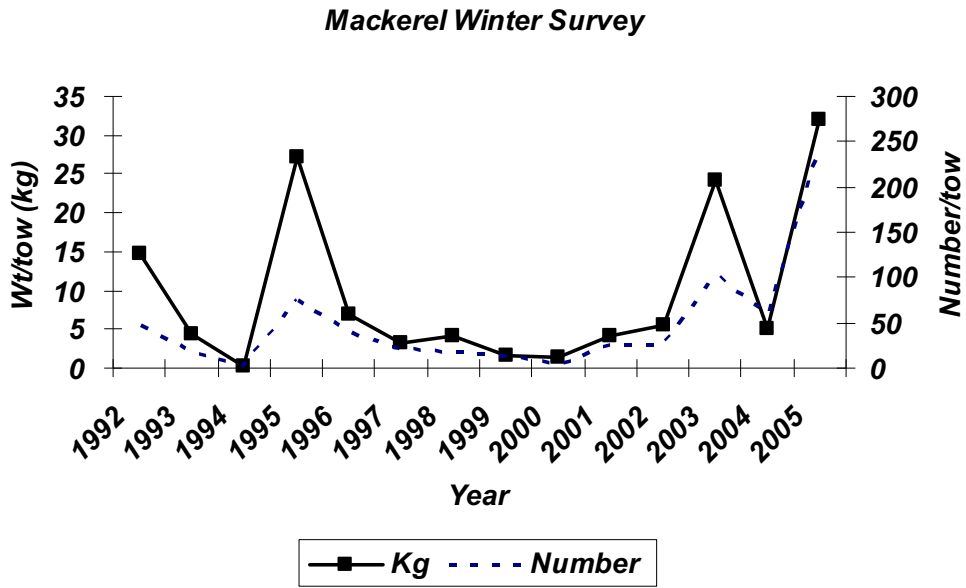


Figure B4. Mackerel winter bottom trawl survey indices in wt/tow and number/tow during 1992-2005.

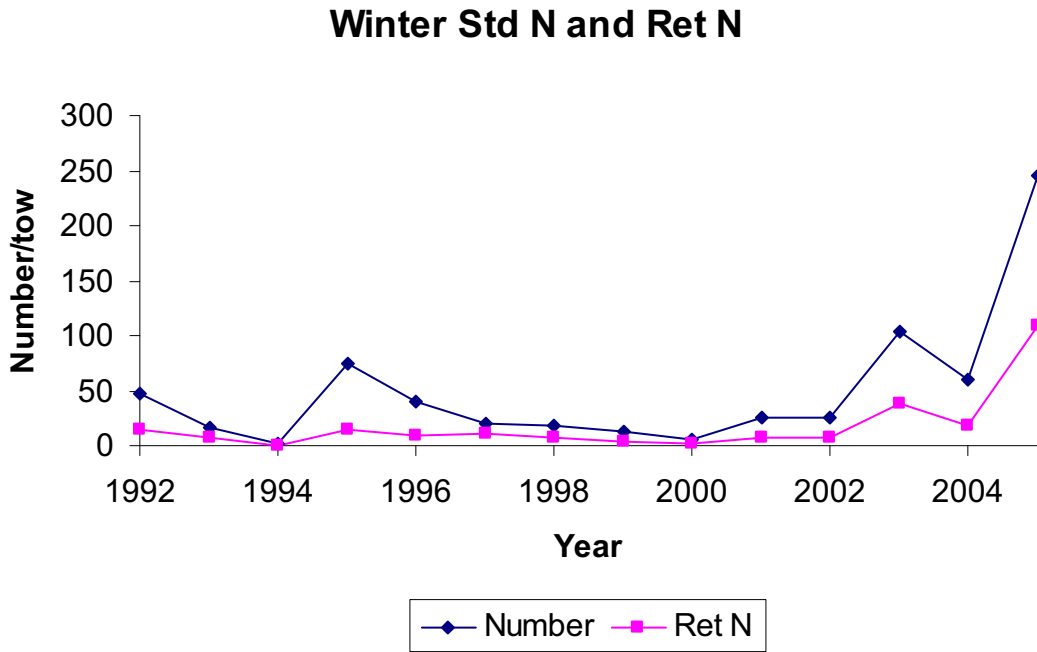


Figure B5. Mackerel winter survey indices in number/tow (standard-std and log retransformed-ret) during 1992-2005.

Mean Weight Spring Survey

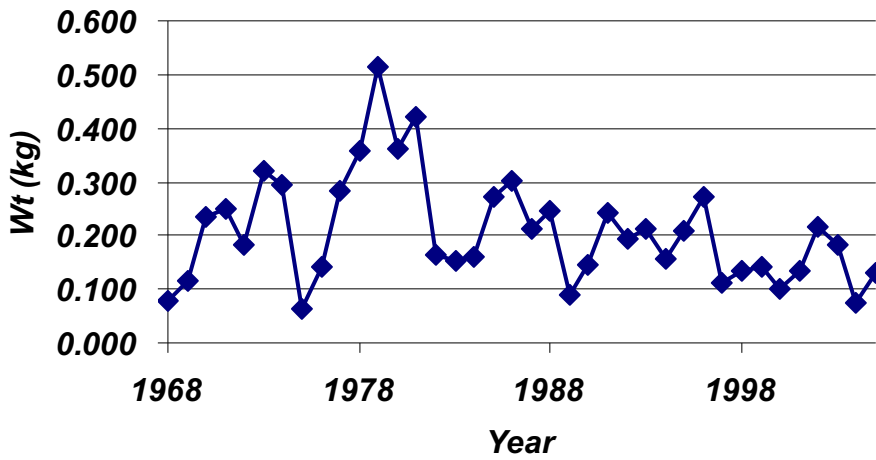


Figure B6. Average weight (kg) of Atlantic mackerel from NEFSC spring surveys during 1968-2005.

Catch Weights 1962-2004

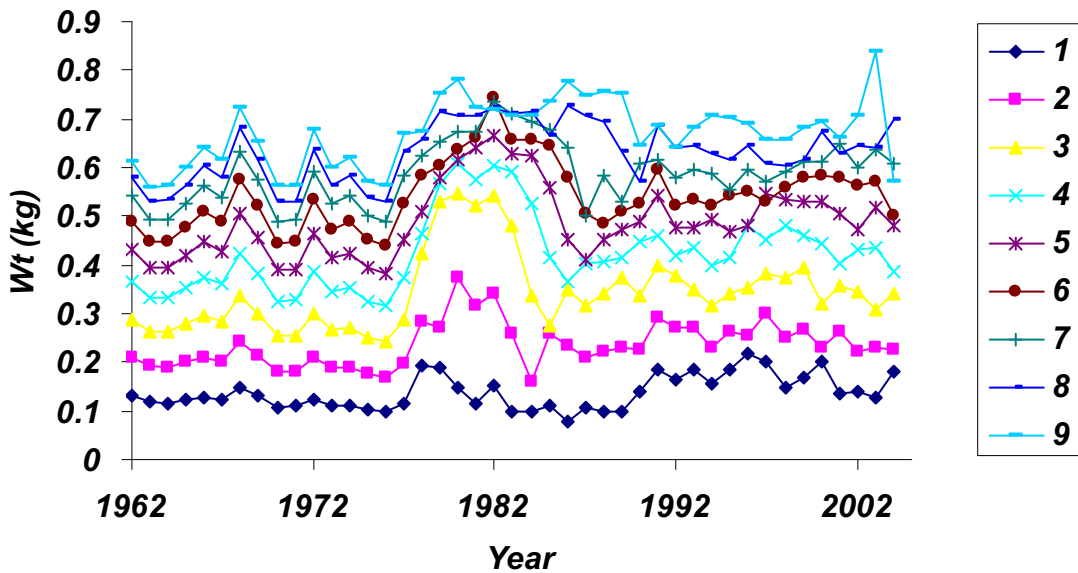


Figure B7. Landed weight (kg) of Atlantic mackerel from USA and Canadian fisheries in NAFO SA 2-6 during 1962-2004.

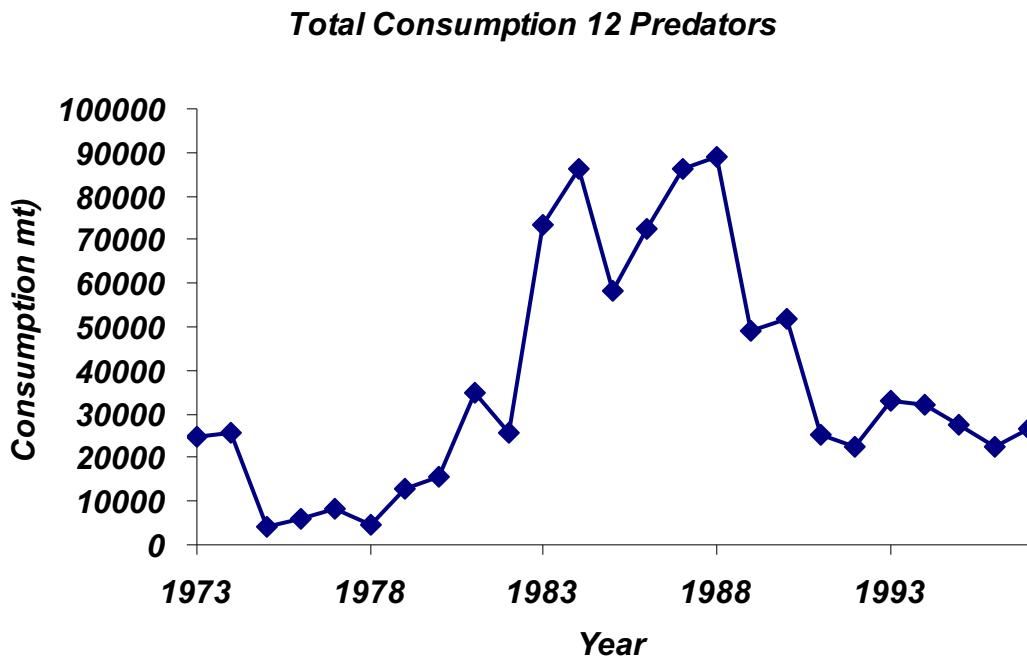


Figure B8. Consumption of Atlantic mackerel by 12 picivorous fish in the Mid-Atlantic-gulf of Maine region during 1973-1997.

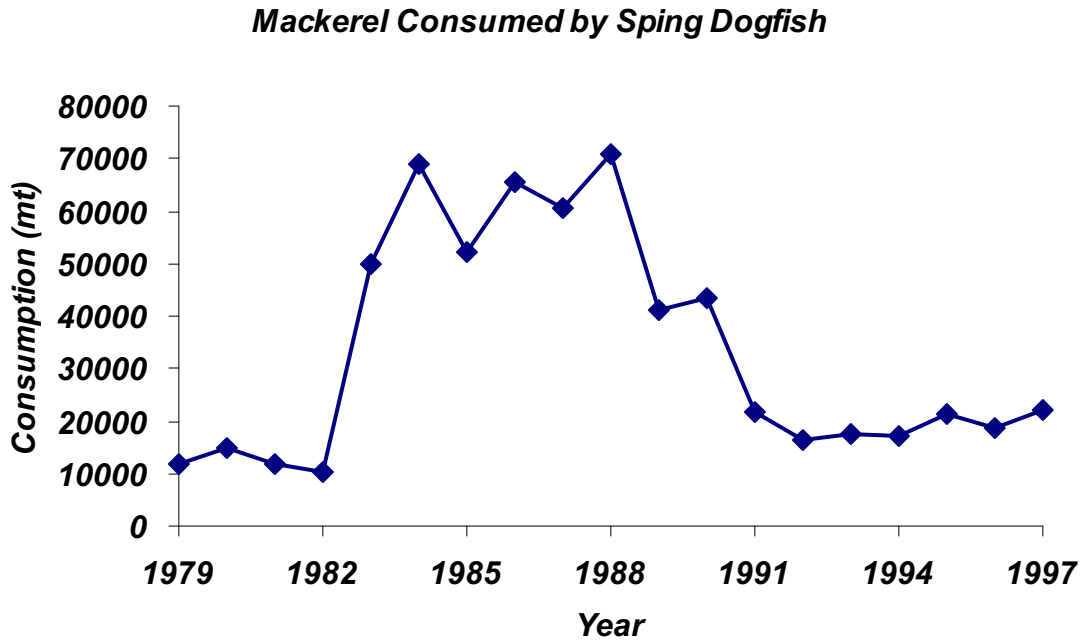


Figure B9. Consumption of Atlantic mackerel by spiny dogfish in the Mid-Atlantic-Gulf of Maine region during 1979-1997.

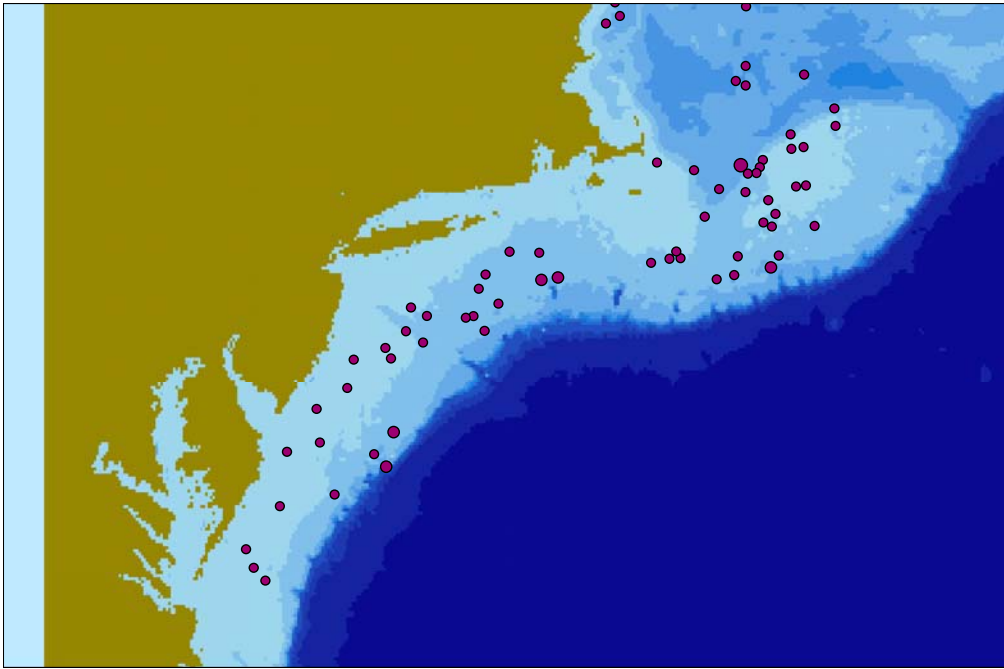


Figure B10. Distribution of mackerel during the spring NEFSC bottom trawl survey in 2002.

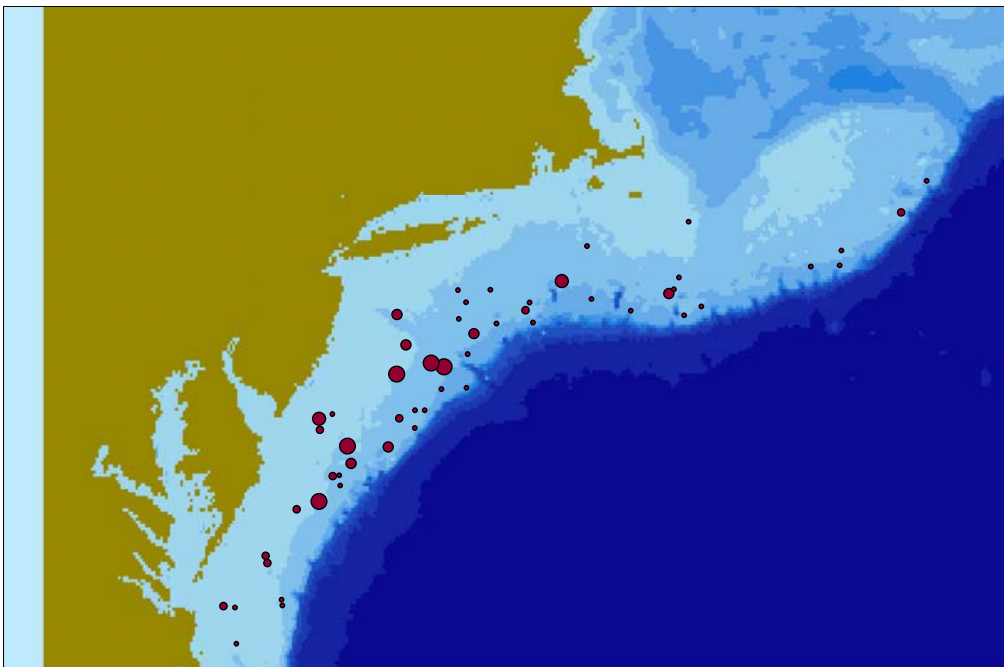


Figure B11. Distribution of mackerel during the spring NEFSC bottom trawl survey in 2003.

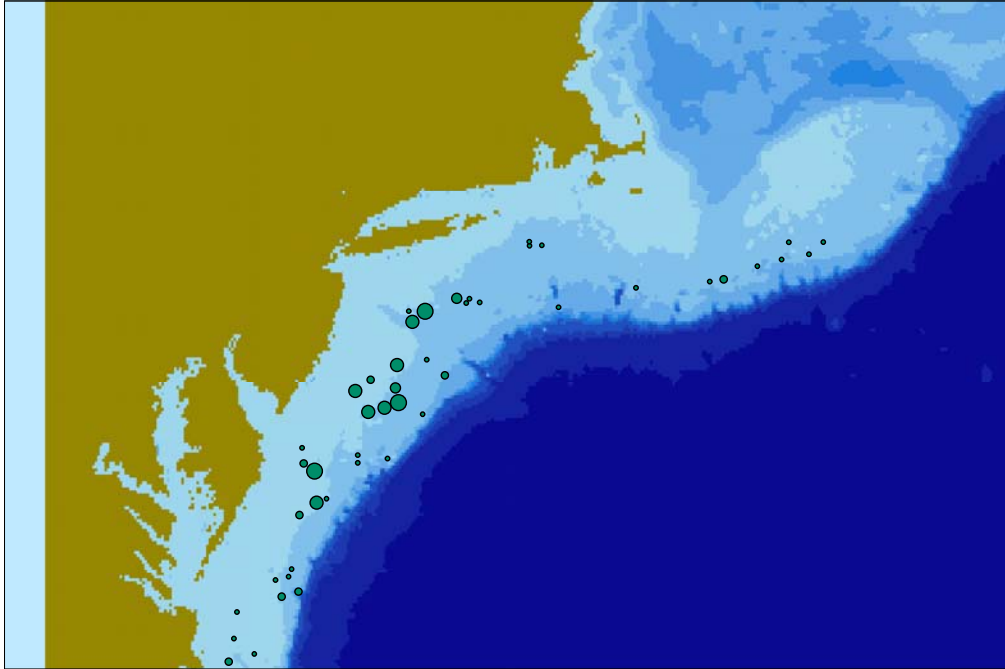


Figure B12. Distribution of mackerel during the spring NEFSC bottom trawl survey in 2004

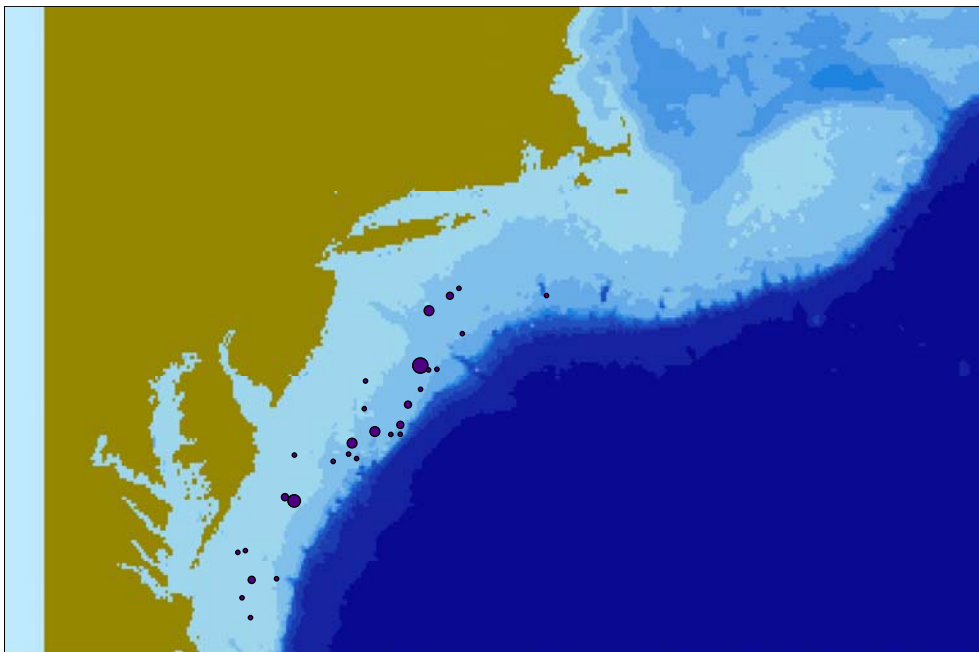


Figure B13. Distribution of mackerel during the spring NEFSC bottom trawl survey in 2005.

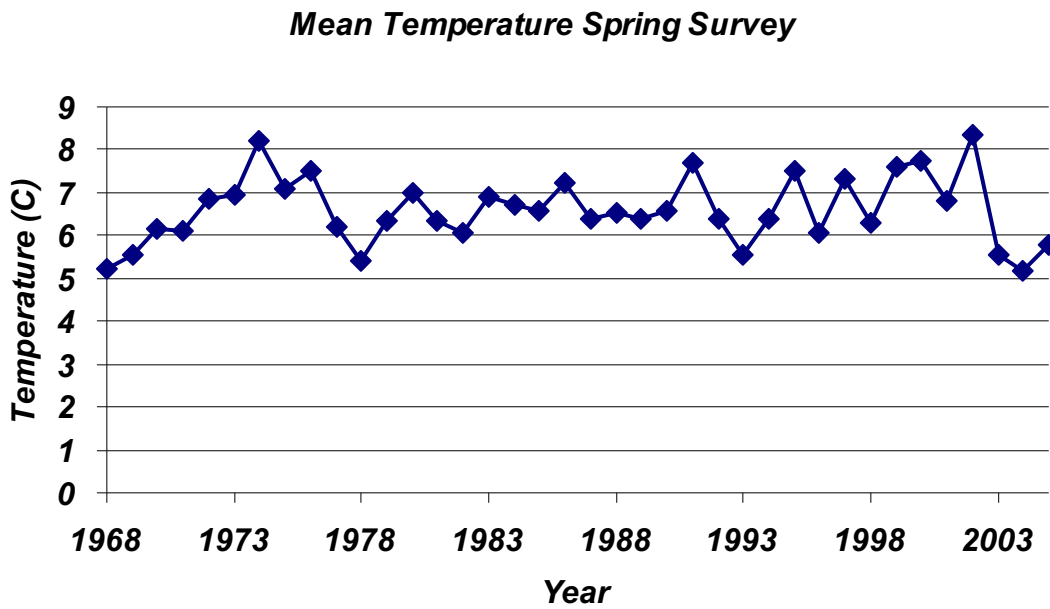


Figure B14. Average temperature from the NEFSC spring survey during 1968-2005.

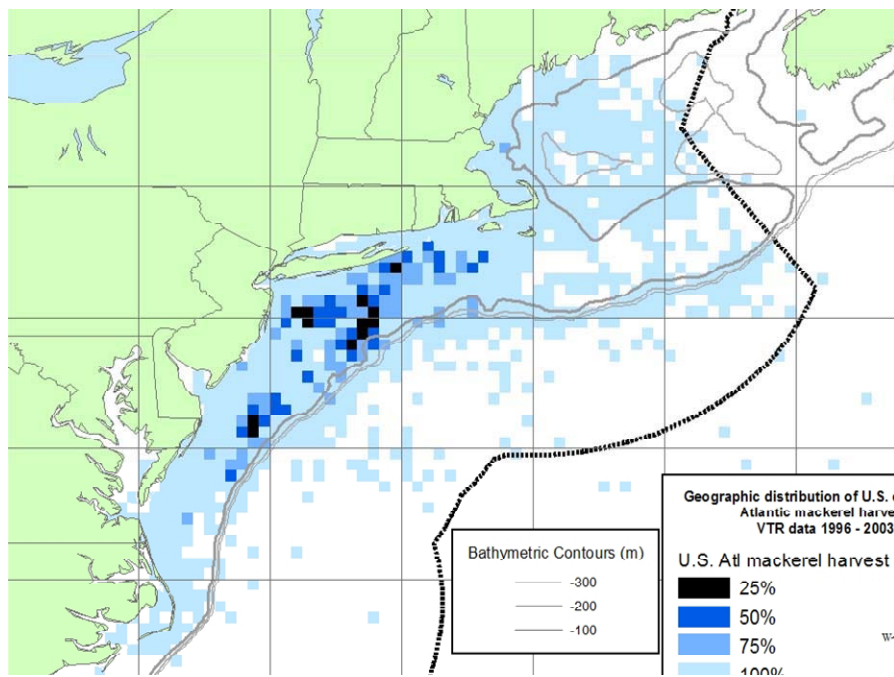


Figure B15. Map of fishing activity for mackerel during 1996-2003.

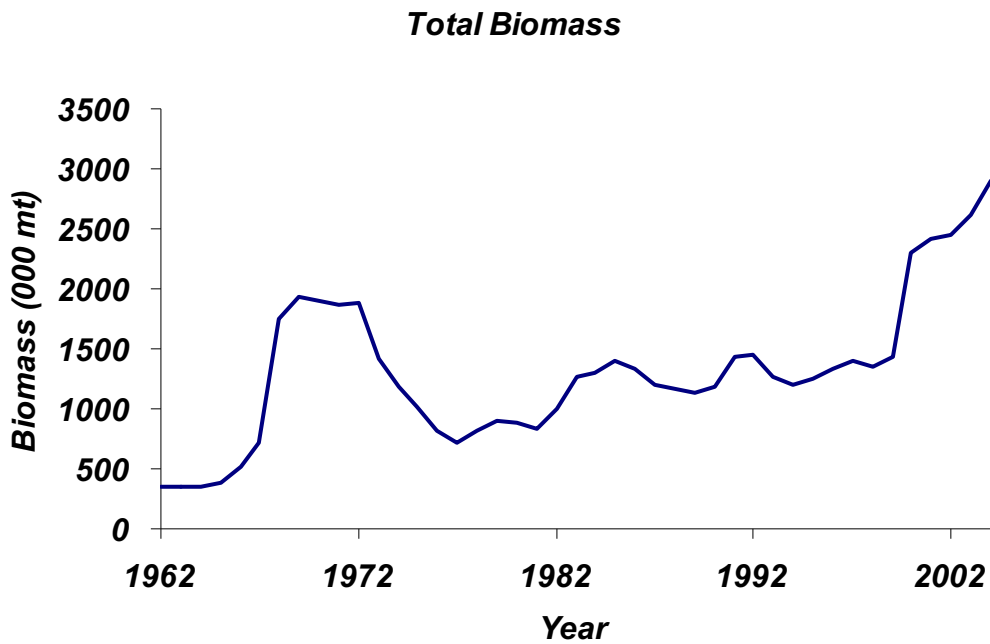


Figure B 16. Total biomass for Atlantic mackerel during 1962-2004 from the ASAP base model run.

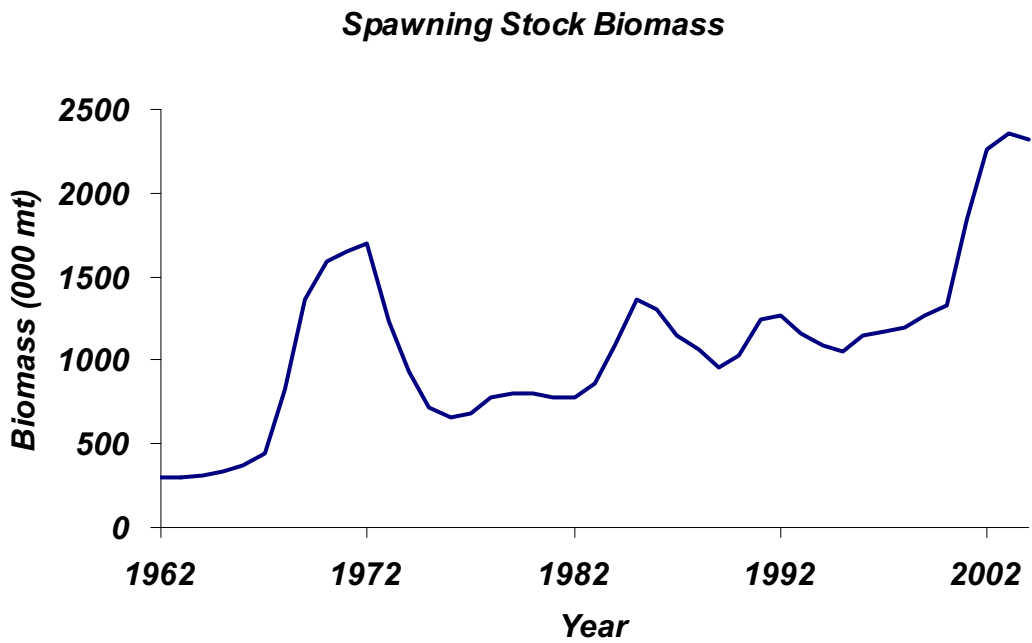


Figure B17. Spawning stock biomass for Atlantic mackerel during 1962-2004 from the ASAP base model run.

Fishing Mortality (4-6)

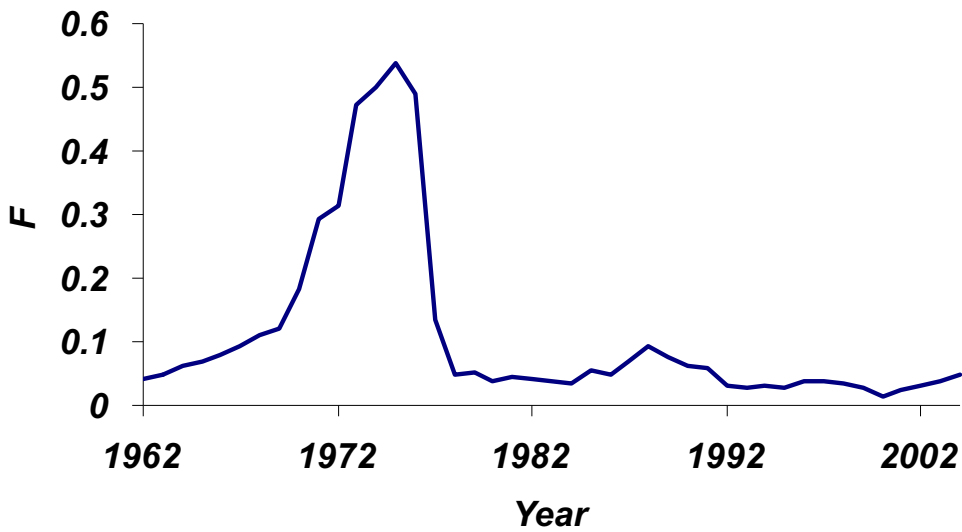


Figure B18. Fishing mortality for Atlantic mackerel during 1962-2004 from the ASAP base model run.

SSB-Recruitment

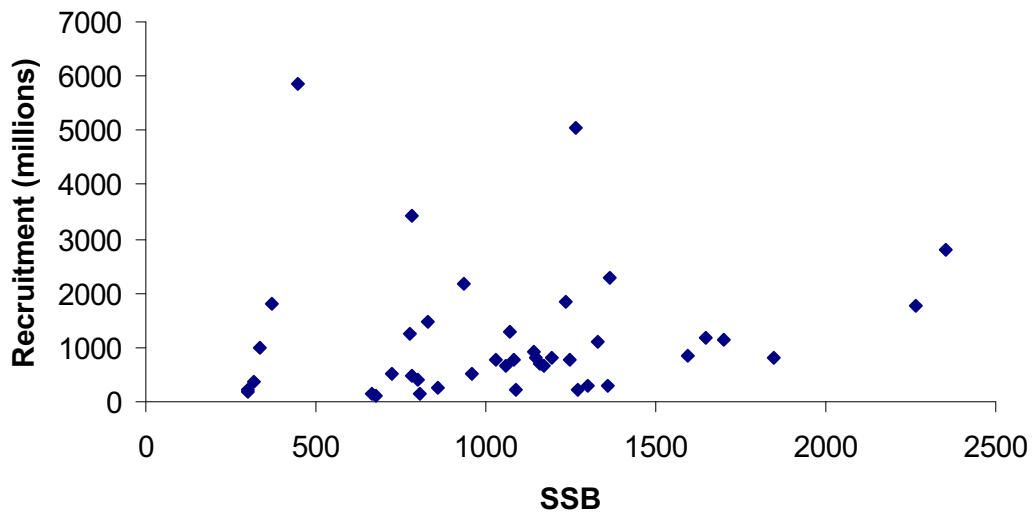


Figure B19. Stock recruitment for Atlantic mackerel during 1962-2004 from the ASAP base model run

Recruitment (age 1)

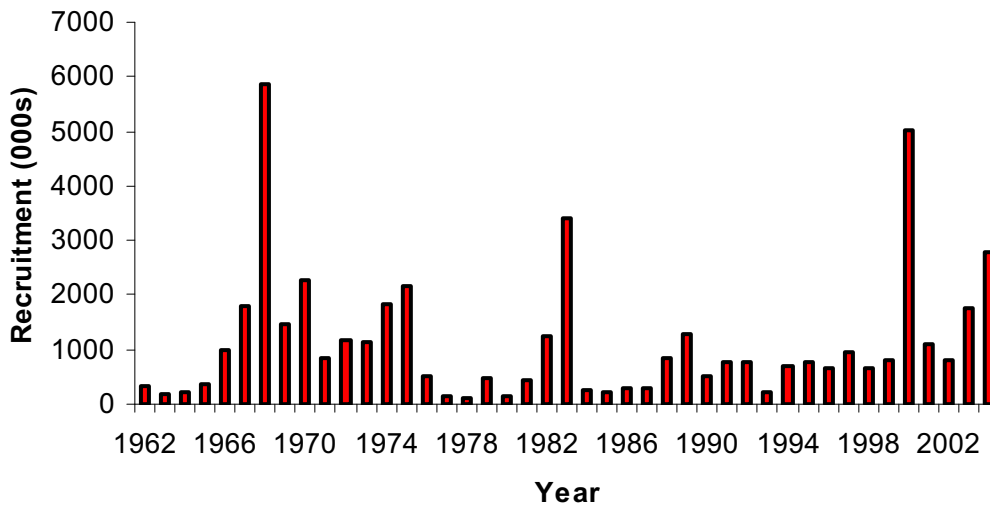


Figure B20. Recruitment (age 1) for Atlantic mackerel during 1962-2004 from the ASAP base model run.

Surplus Production & Landings

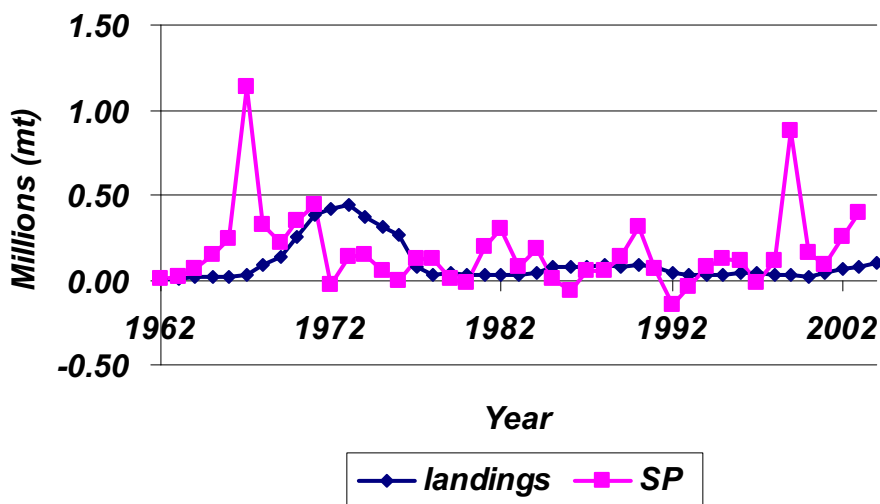


Figure B21. Surplus production and landings of Atlantic mackerel during 1962-2004 from the ASAP base model run.

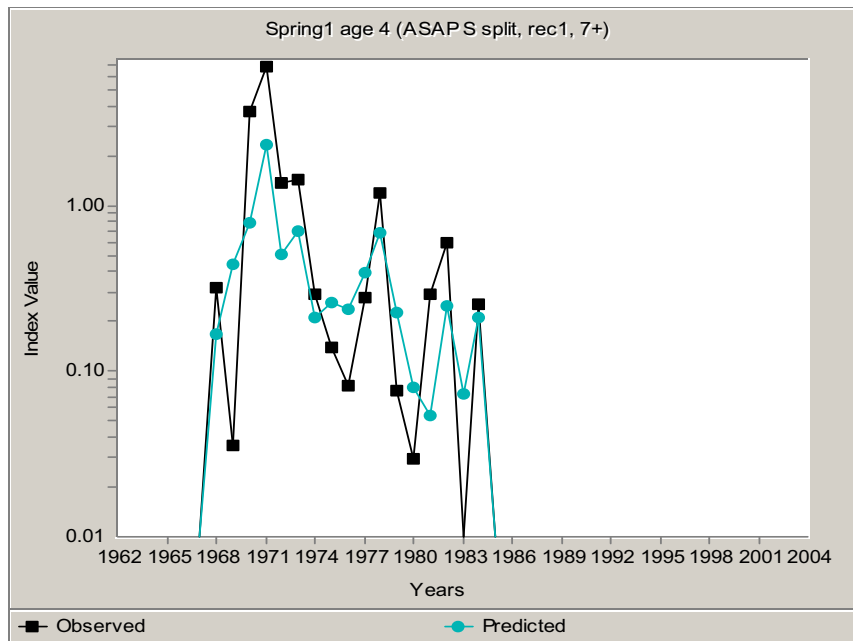


Figure B22. Spring survey observed vs. predicted series (1968-1984, age 4) for the base case ASAP model with the spring survey split in 1985, B-H SR model ($\lambda = 1$), and ages aggregated to 7+.

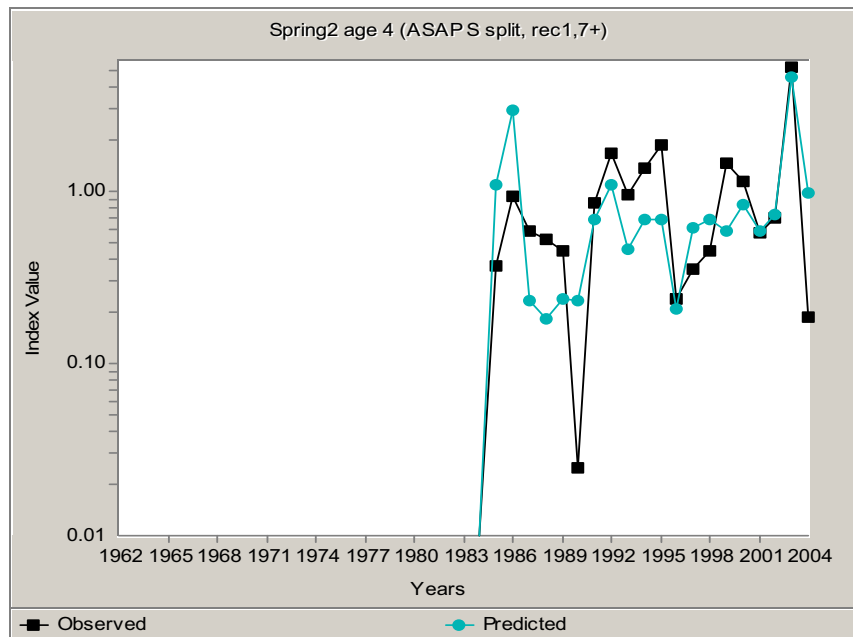


Figure B23. Spring survey observed vs predicted series (1985-2004, age 4) for the base case ASAP model with the spring survey split in 1985, B-H SR model ($\lambda = 1$), and ages aggregated to 7+.

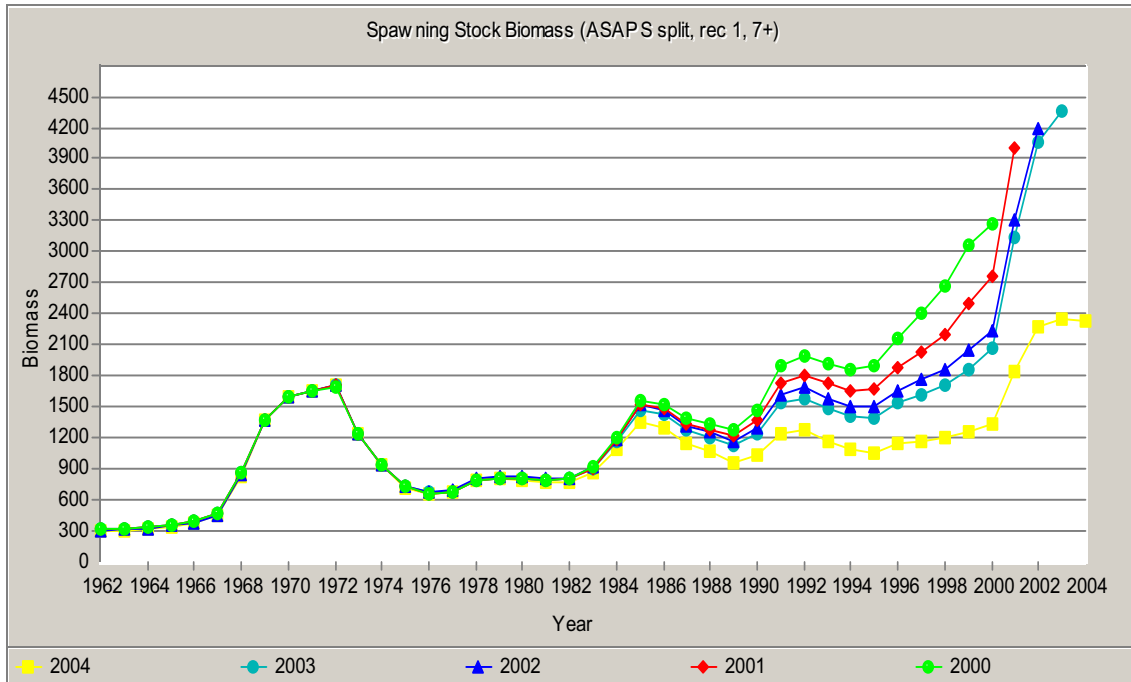


Figure B24. Retrospective pattern for SSB for the base case ASAP model with the spring survey split in 1985, B-H SR model ($\lambda = 1$), and ages aggregated to 7+.

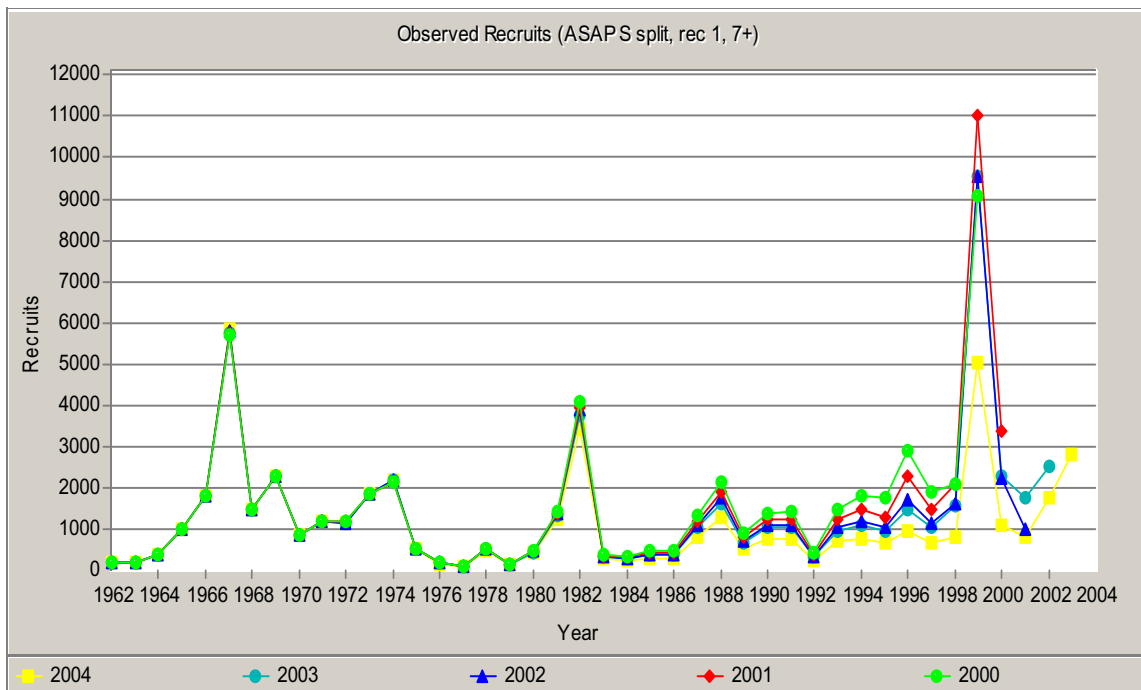


Figure B25. Retrospective pattern for recruitment for the base case ASAP model with the spring survey split in 1985, B-H SR model ($\lambda = 1$), and ages aggregated to 7+.