

Summer flounder Total Catch Age Composition

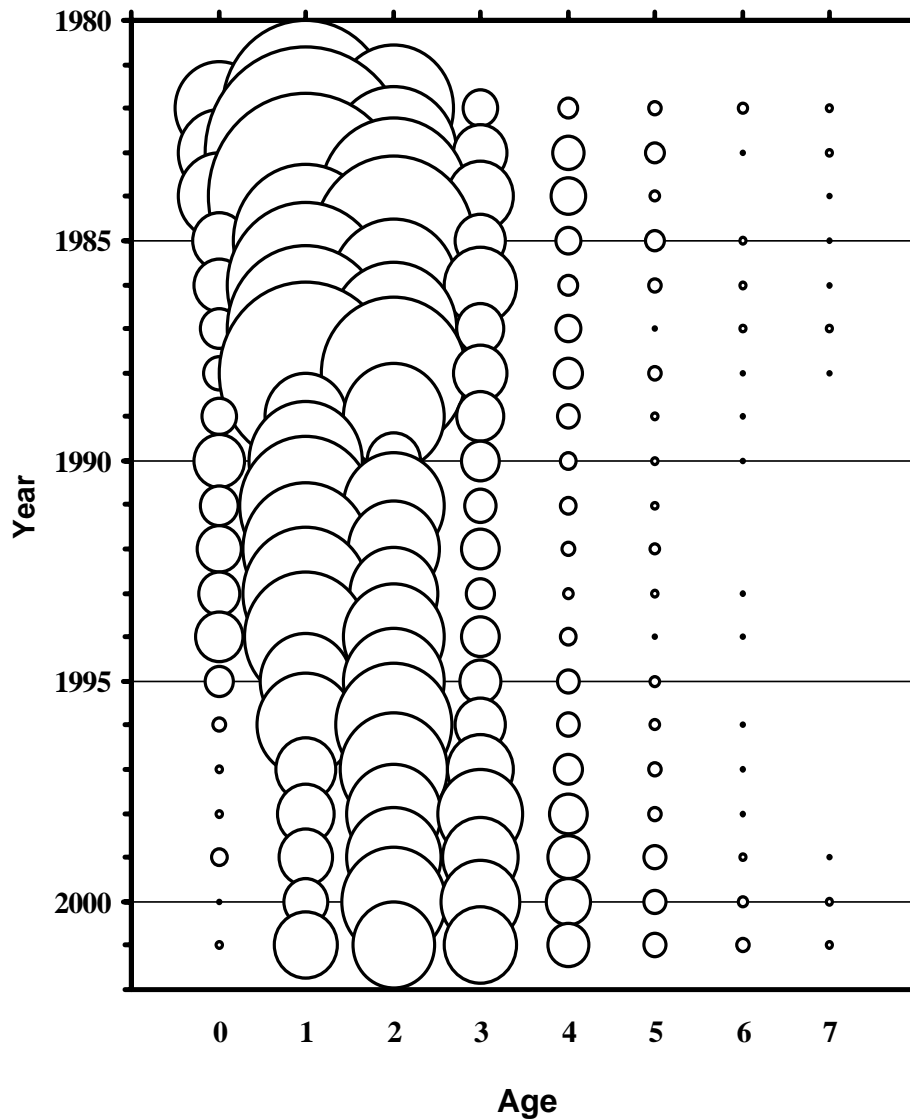


Figure A1. Total catch age composition for summer flounder: 1982-2001

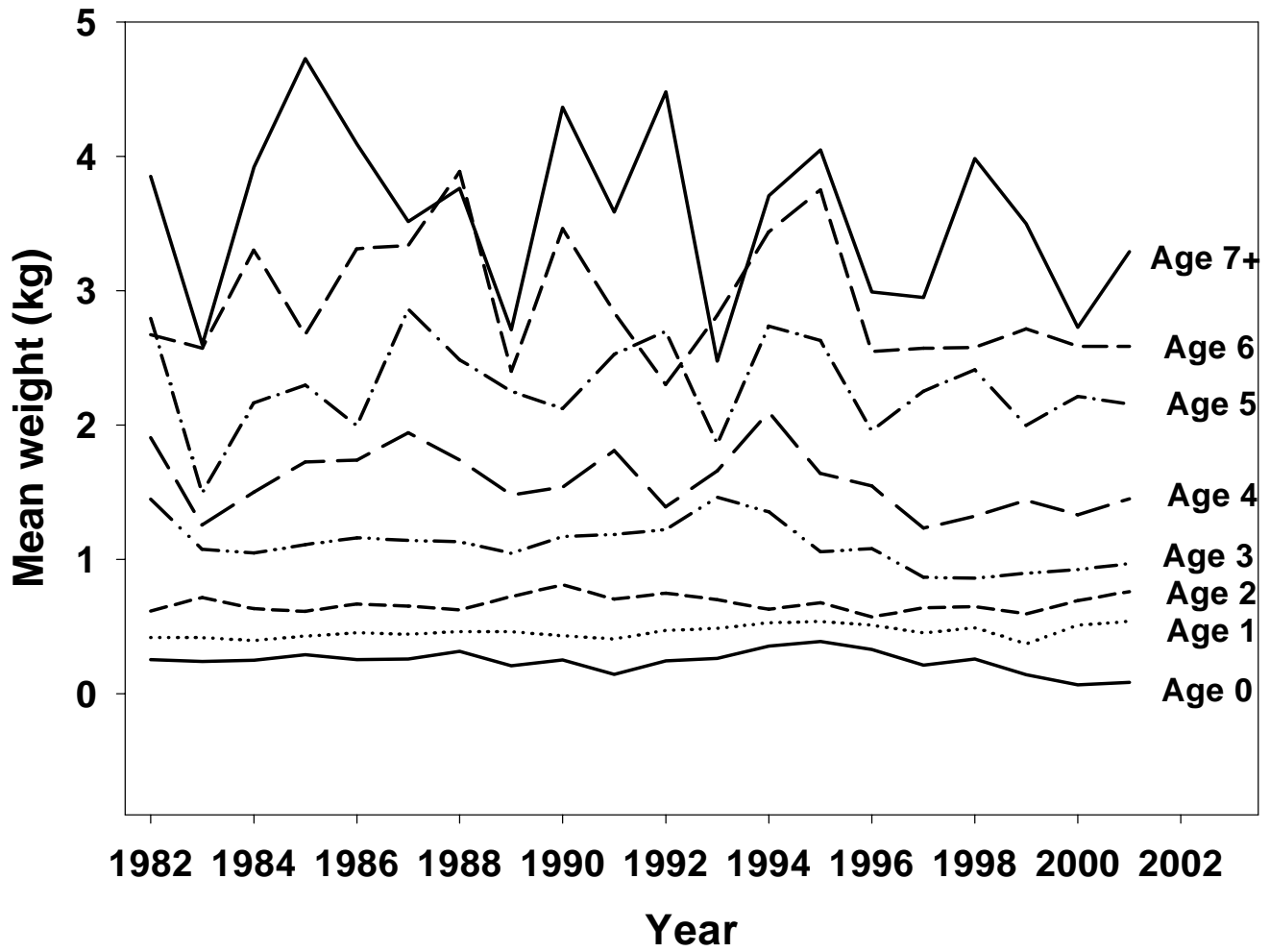


Figure A2. Trends in mean weight at age in the total catch of summer flounder.

Components of the summer flounder total catch

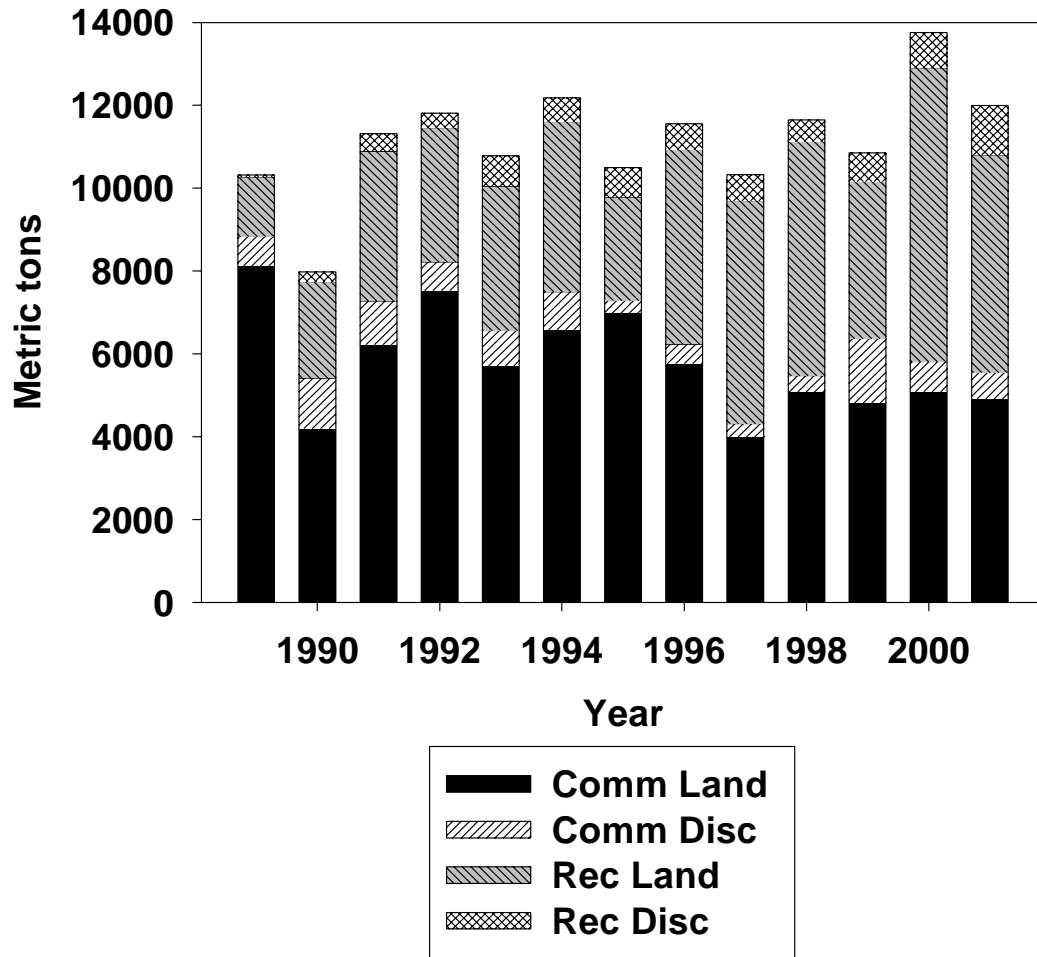


Figure A3. Components of the summer flounder total catch.

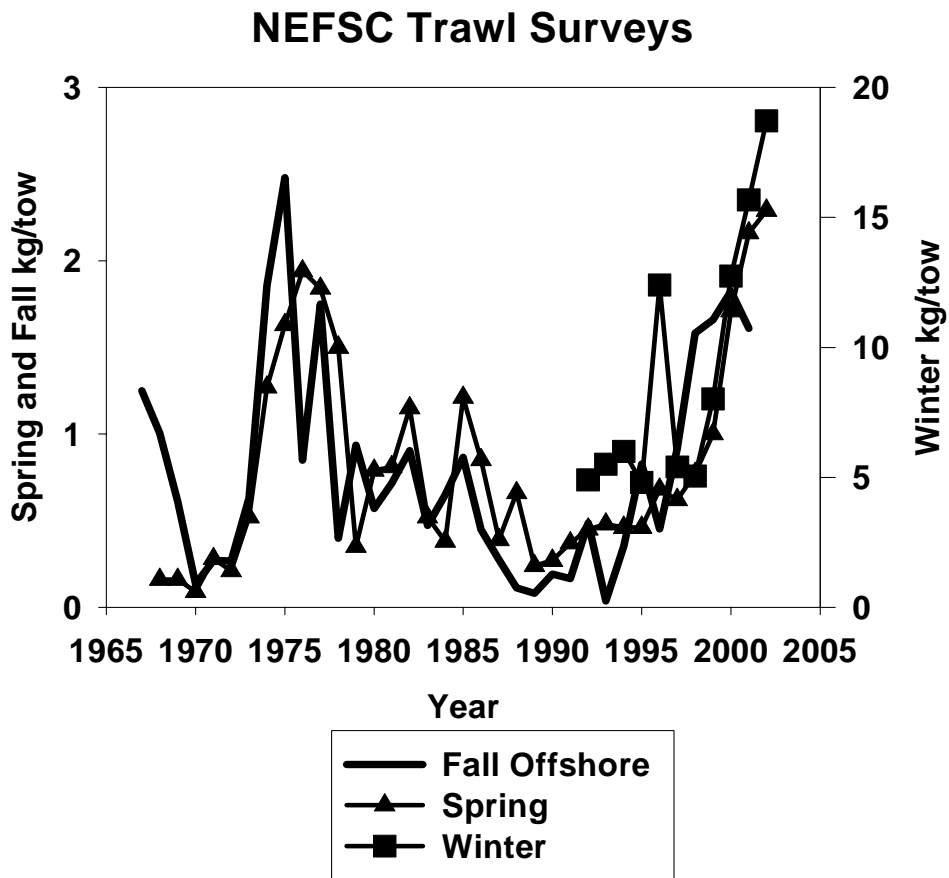


Figure A4. Trends in NEFSC trawl survey biomass indices for summer flounder.

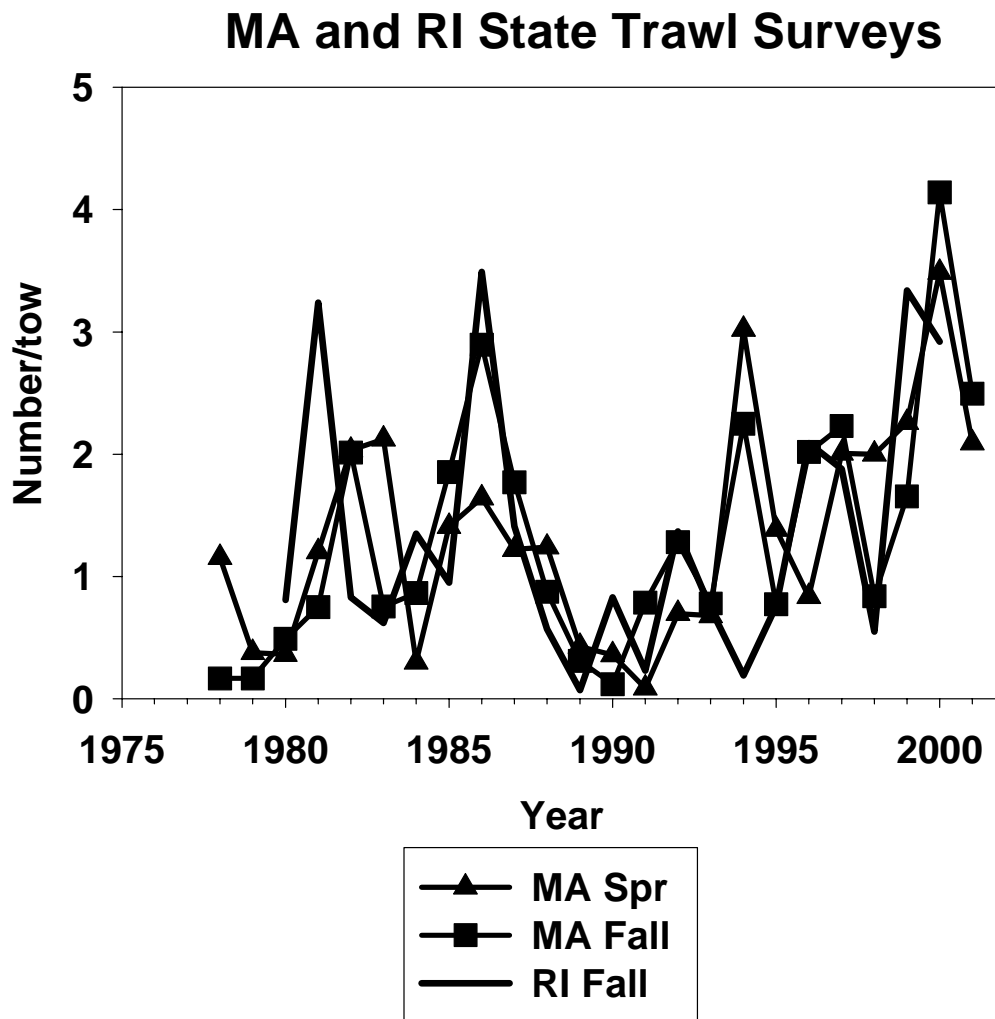


Figure A5. Trends in MA and RI trawl survey abundance indices for summer flounder.

CT, NJ, and DE State Trawl Surveys

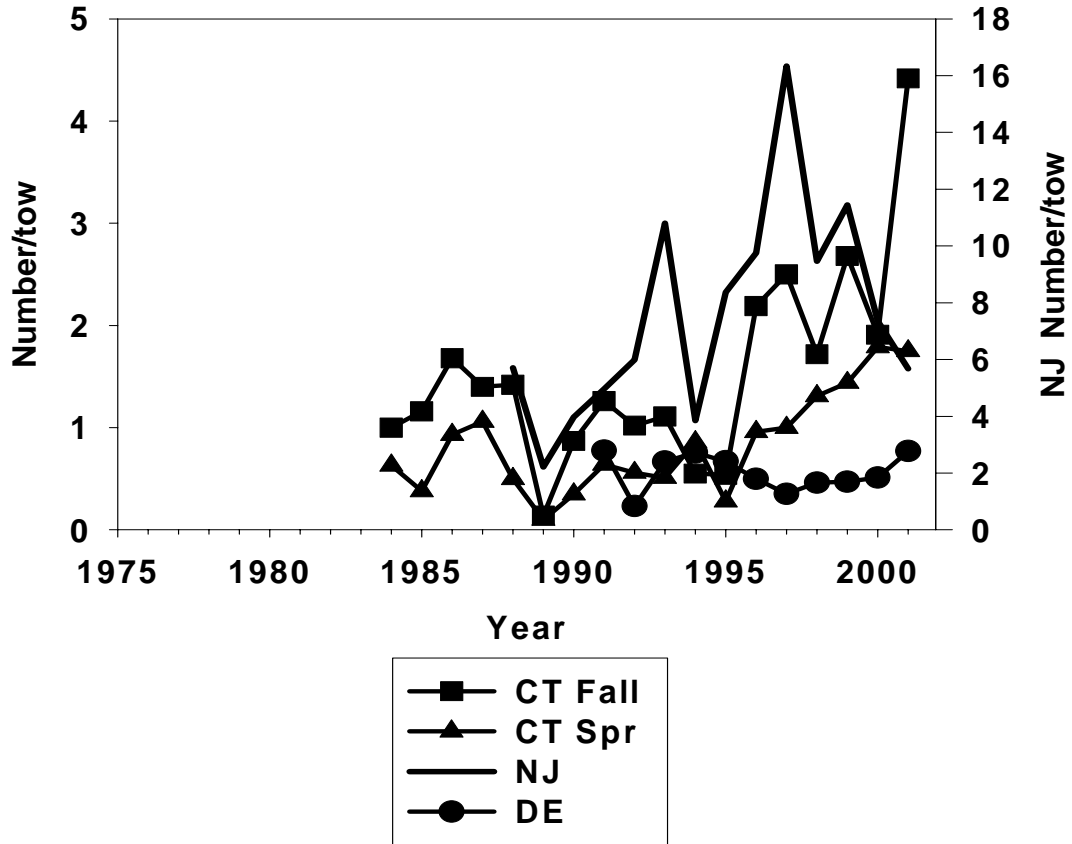


Figure A6. Trends in CT, NJ, and DE trawl survey abundance indices for summer flounder

NEFSC, CT, and NJ YOY Indices

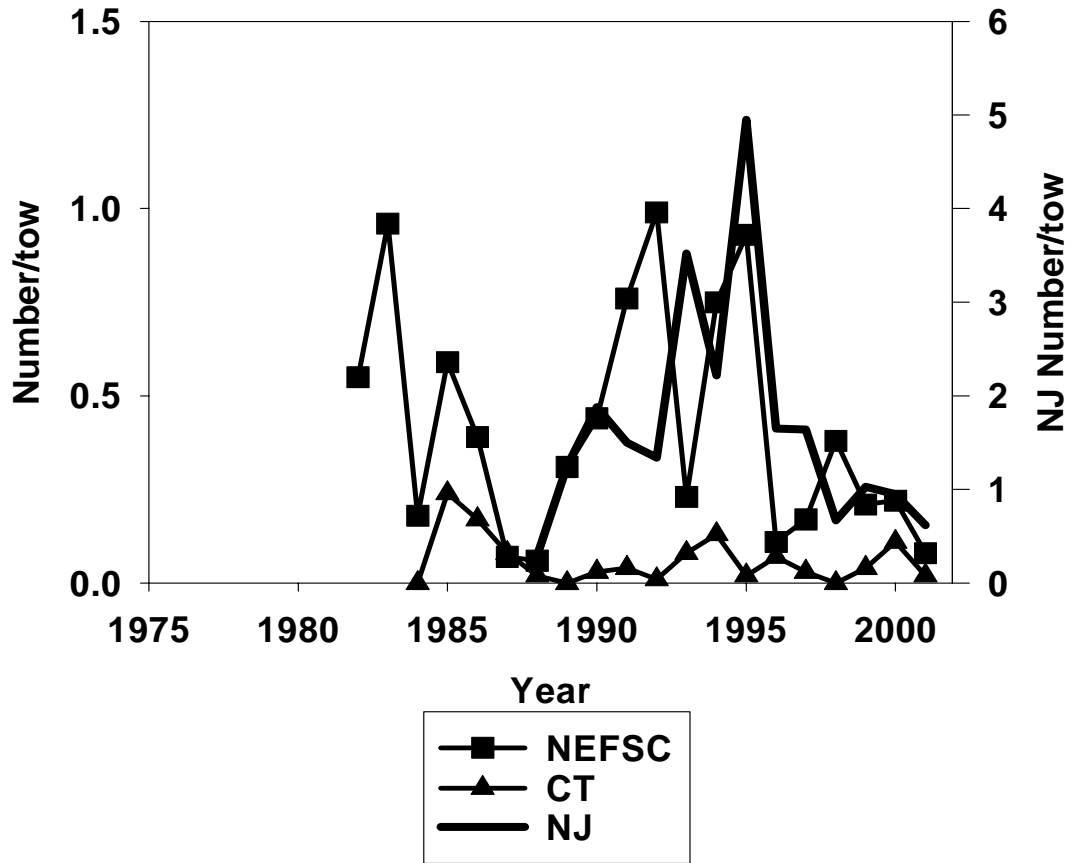


Figure A7. Trends in NEFSC, CT, and NJ trawl survey recruitment indices for summer flounder

MD, VIMS, and NC YOY Indices

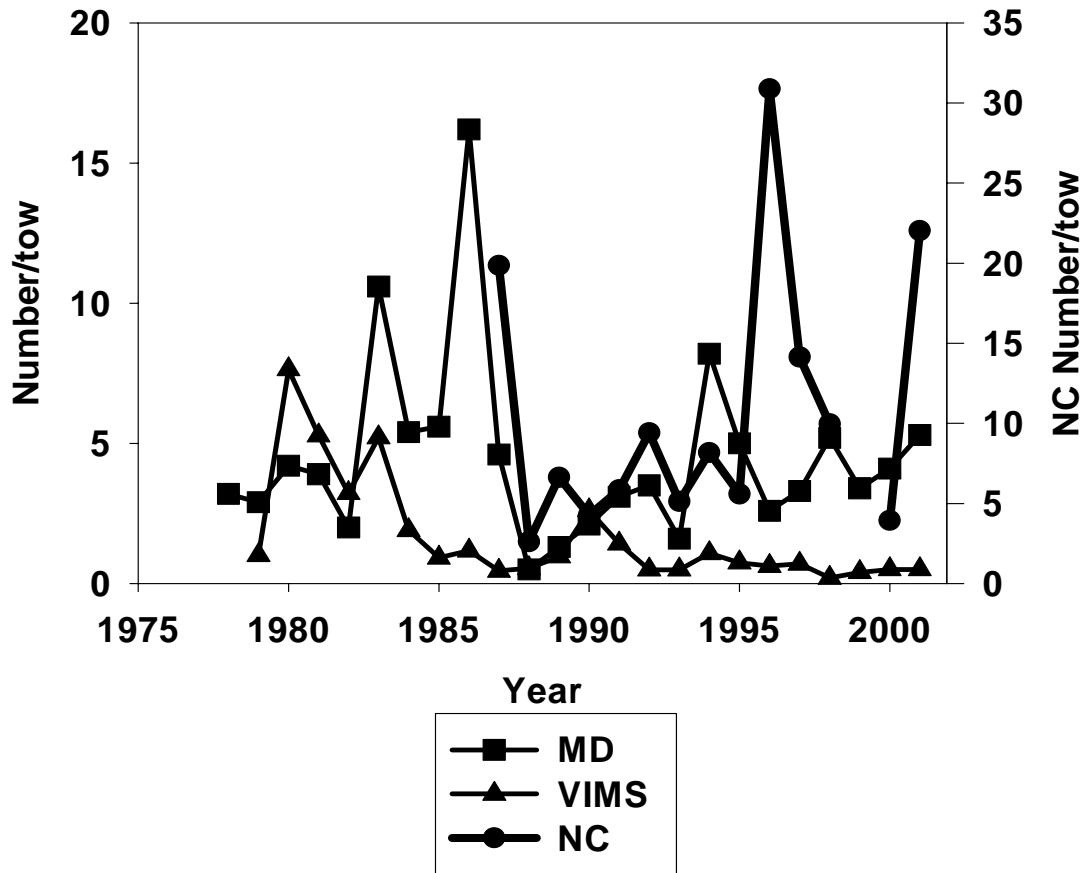


Figure A8. Trends in MD, VIMS, and NC trawl survey recruitment indices for summer flounder.

MA, RI, and DE YOY Indices

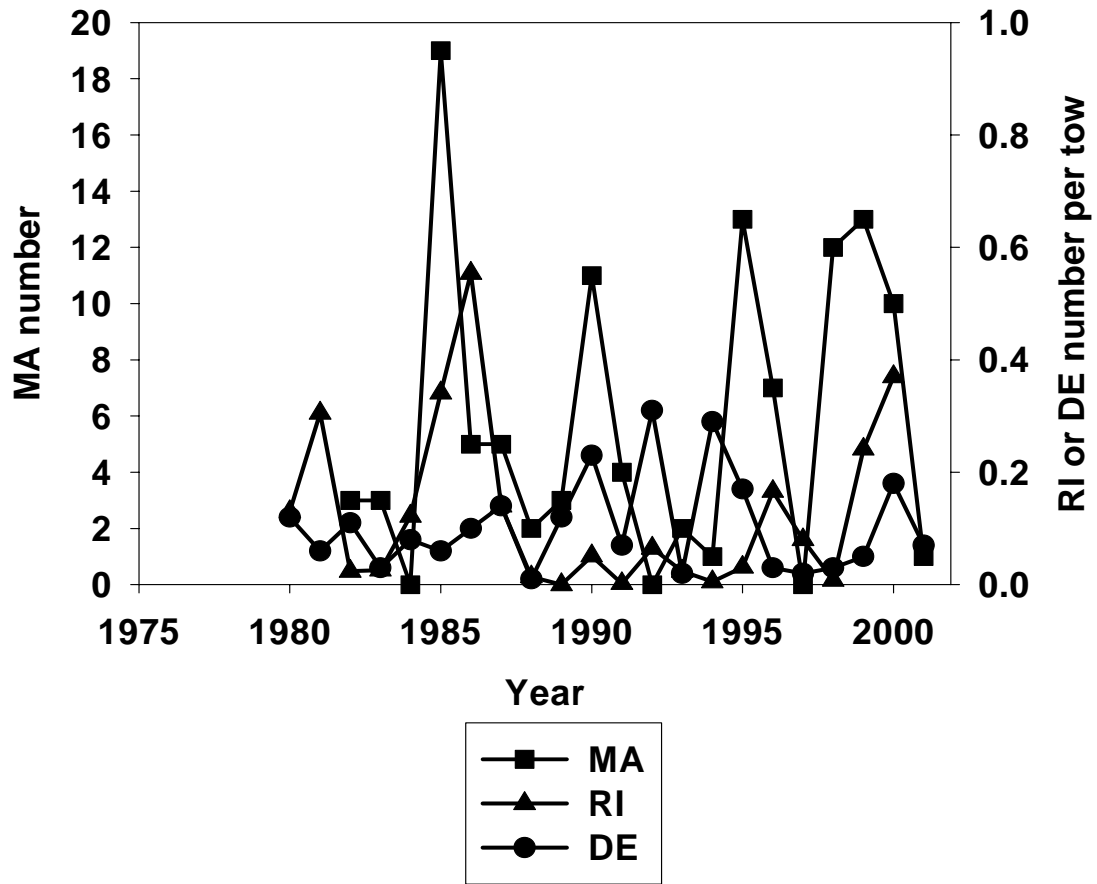


Figure A9. Trends in MA, RI, and DE survey recruitment indices for summer flounder.

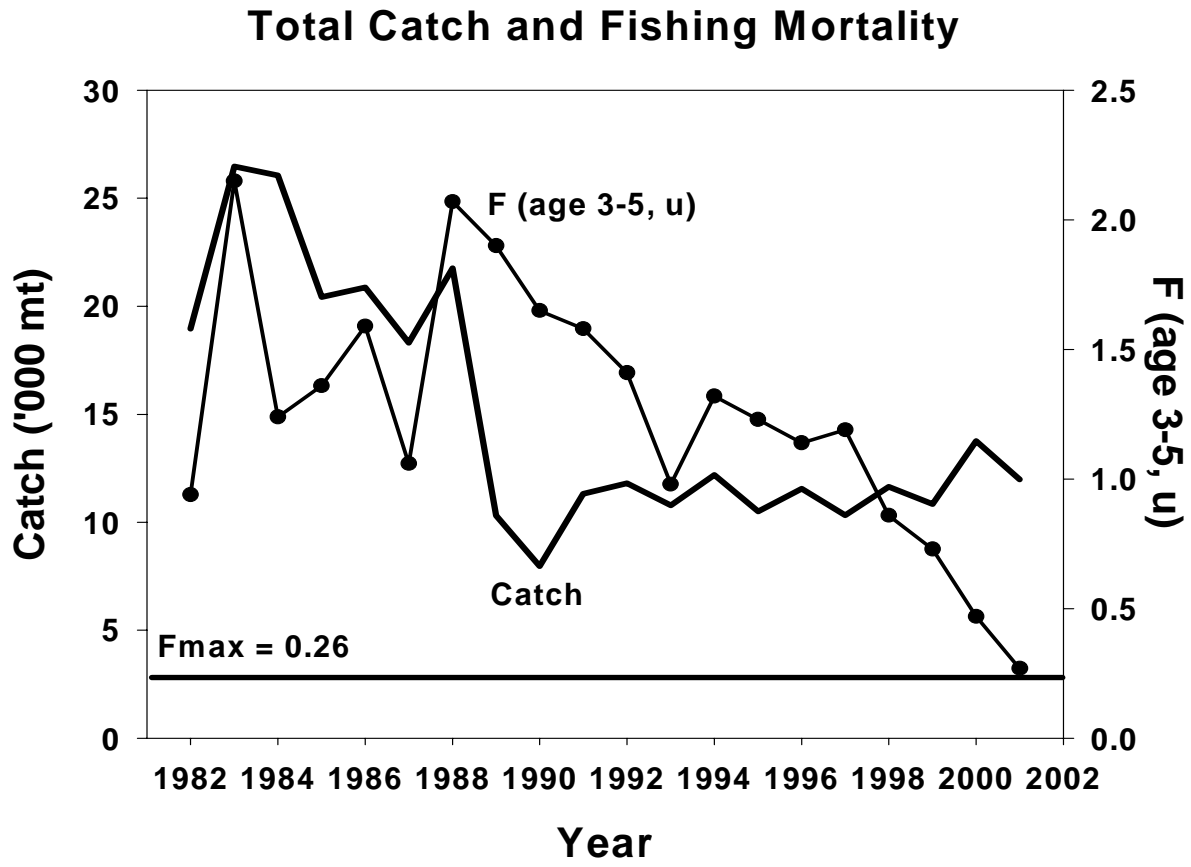


Figure A10. Total catch (landings and discards, thousands of metric tons) and fishing mortality rate (F, ages 3-5, unweighted) for summer flounder.

Total Biomass, SSB, and Recruitment (R)

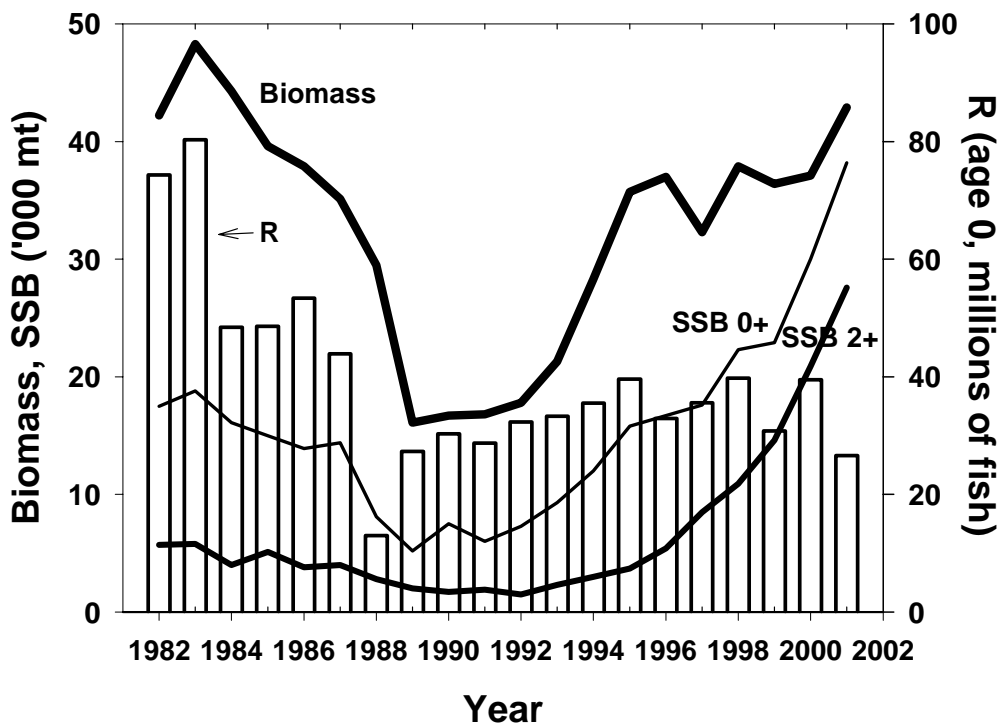


Figure A11. Total stock biomass ('000 mt), spawning stock biomass (SSB ages 0-7+ and 2-7+, '000 mt), and recruitment (millions of fish at age-0) for summer flounder.

Summer flounder Stock Age Composition

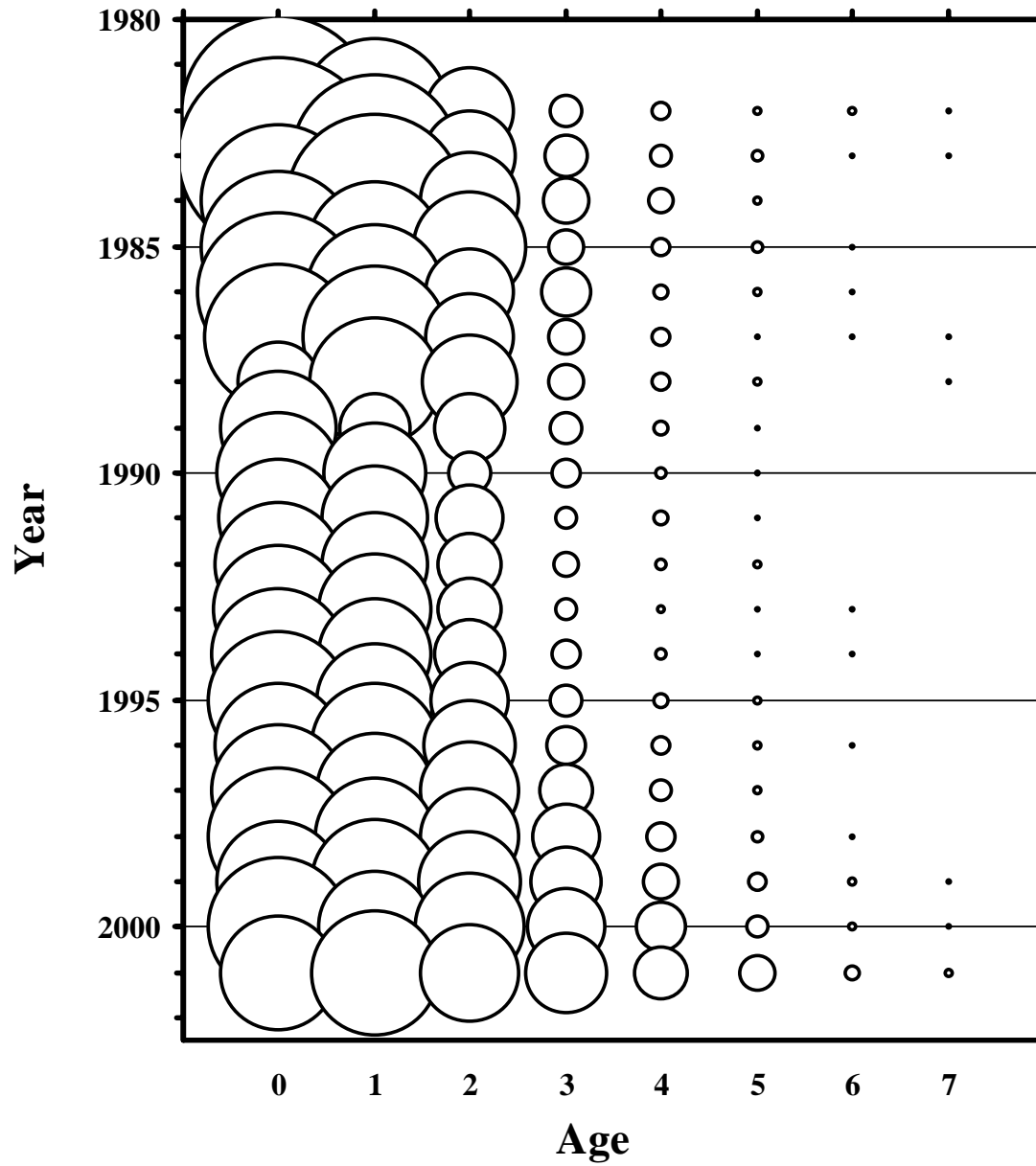


Figure A12. Stock age composition for summer flounder: 1982-2001

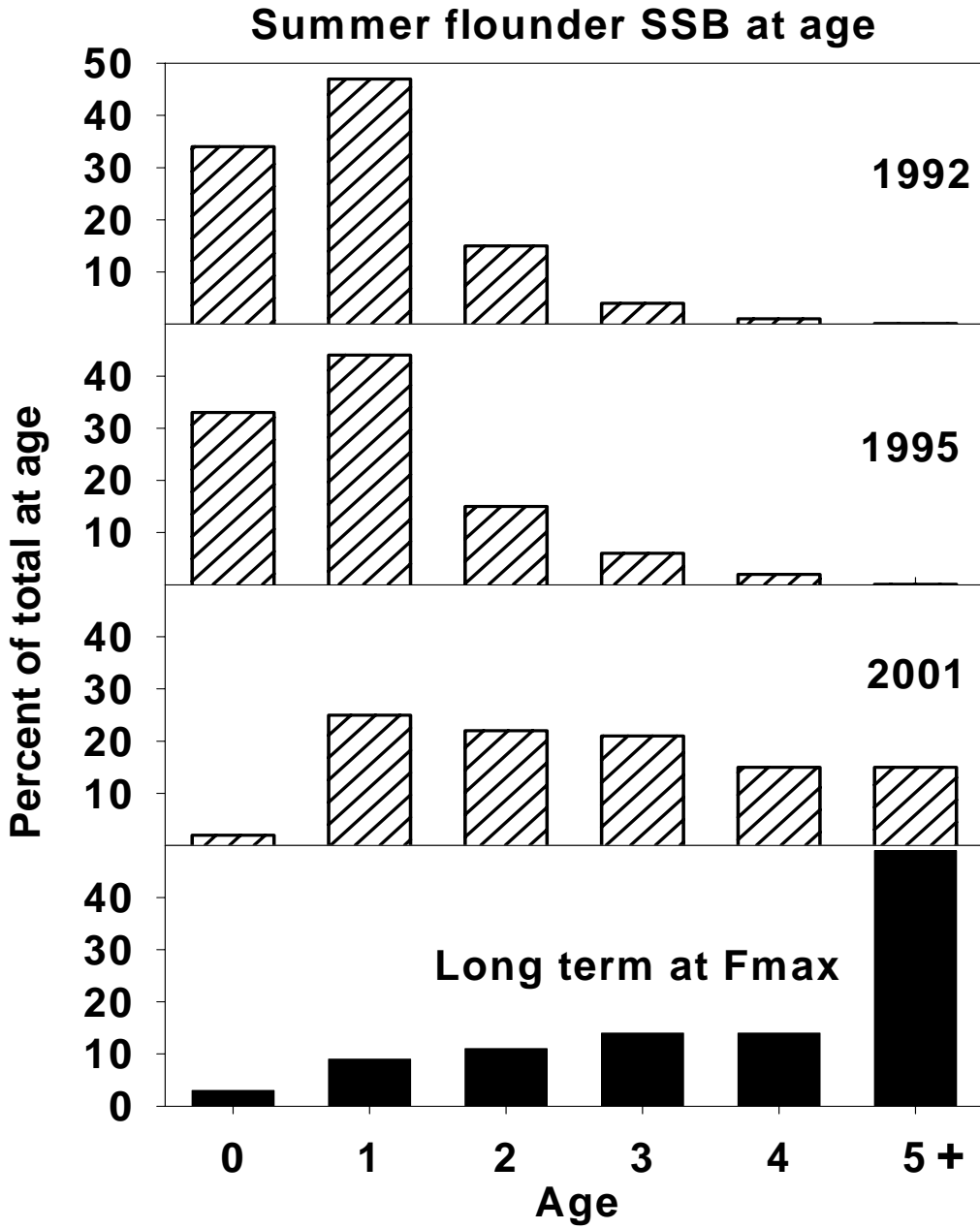


Figure A13. Spawning stock biomass for summer flounder: percent of total at age.

SSB - RECRUIT DATA FOR 1983-2001 YEAR CLASSES

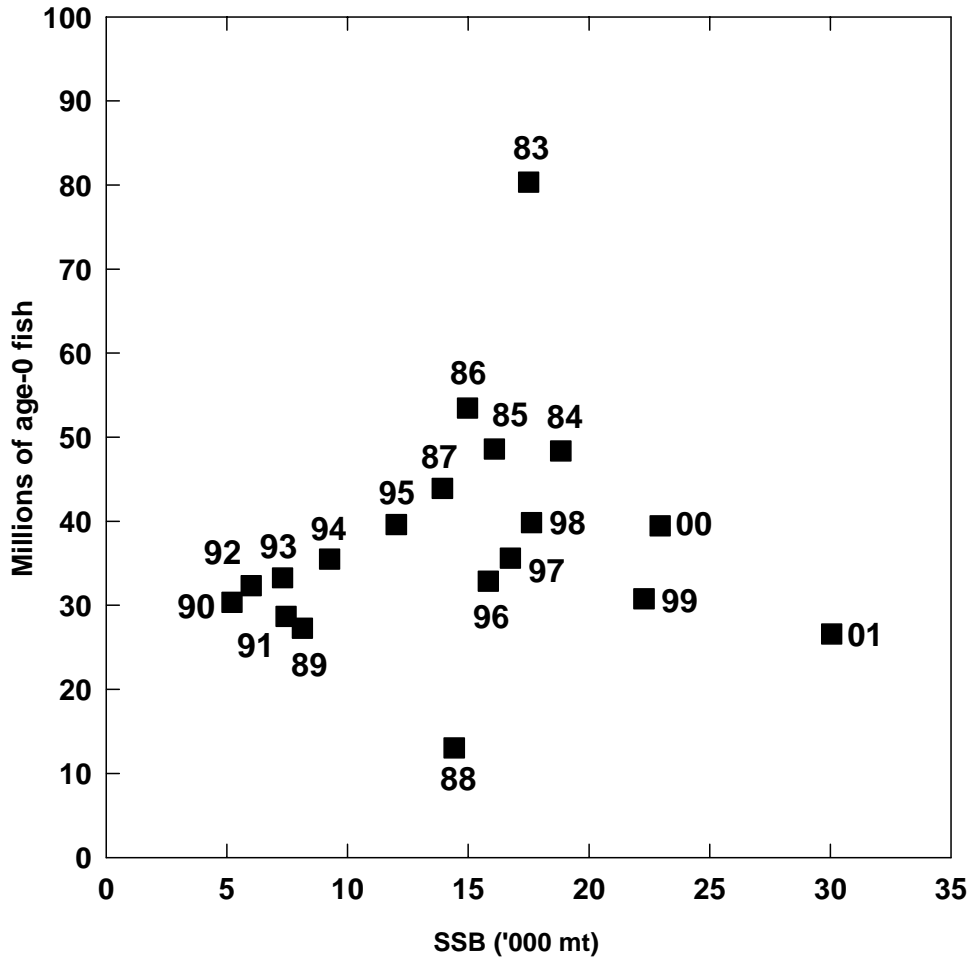


Figure A14. VPA spawning stock biomass and recruitment estimates for summer flounder.

Precision of 2001 Estimates of Stock Biomass and F

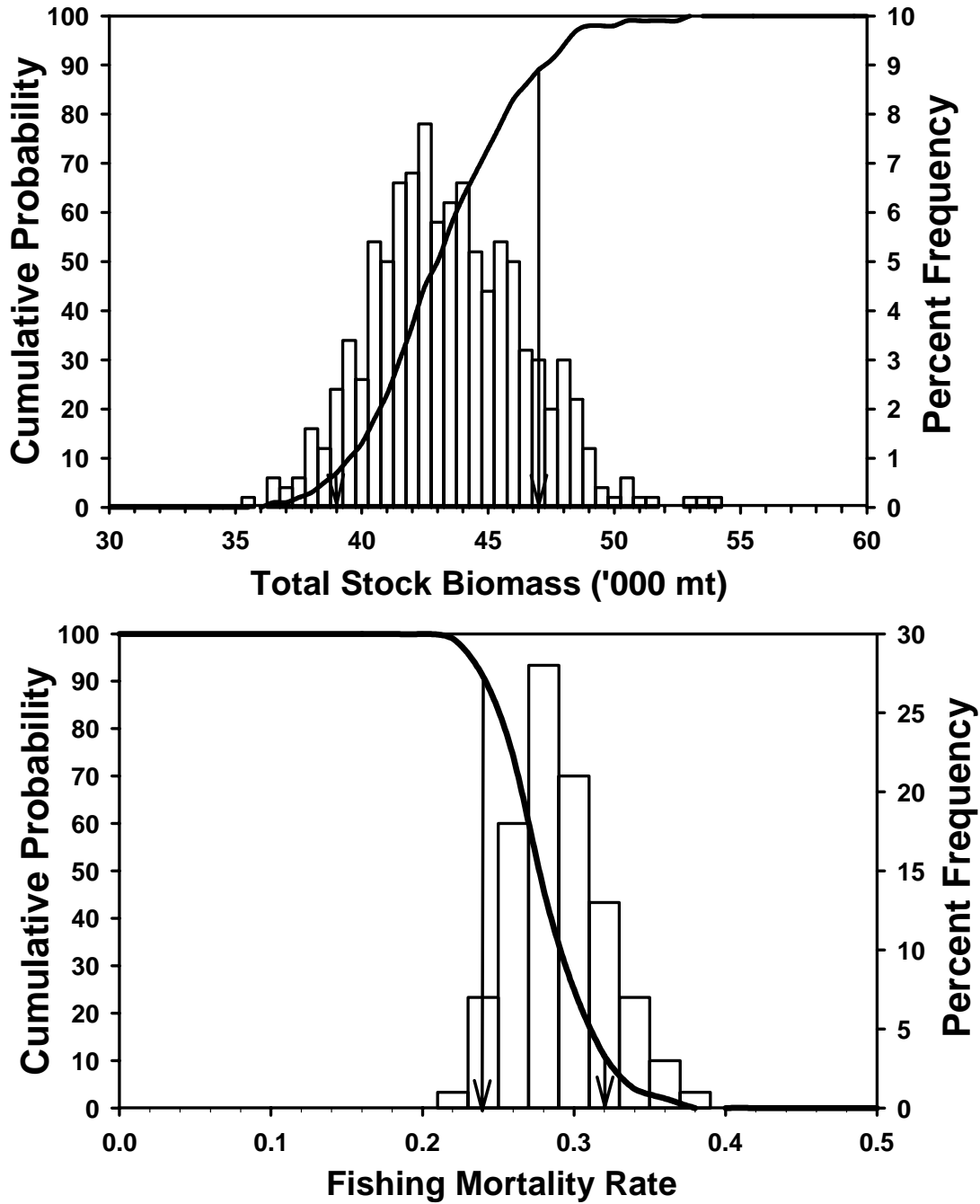


Figure A15. Precision of the estimates of January 1, 2001 total stock biomass (B) and fully recruited fishing mortality on age 3-5 (F) in 2001 for summer flounder.

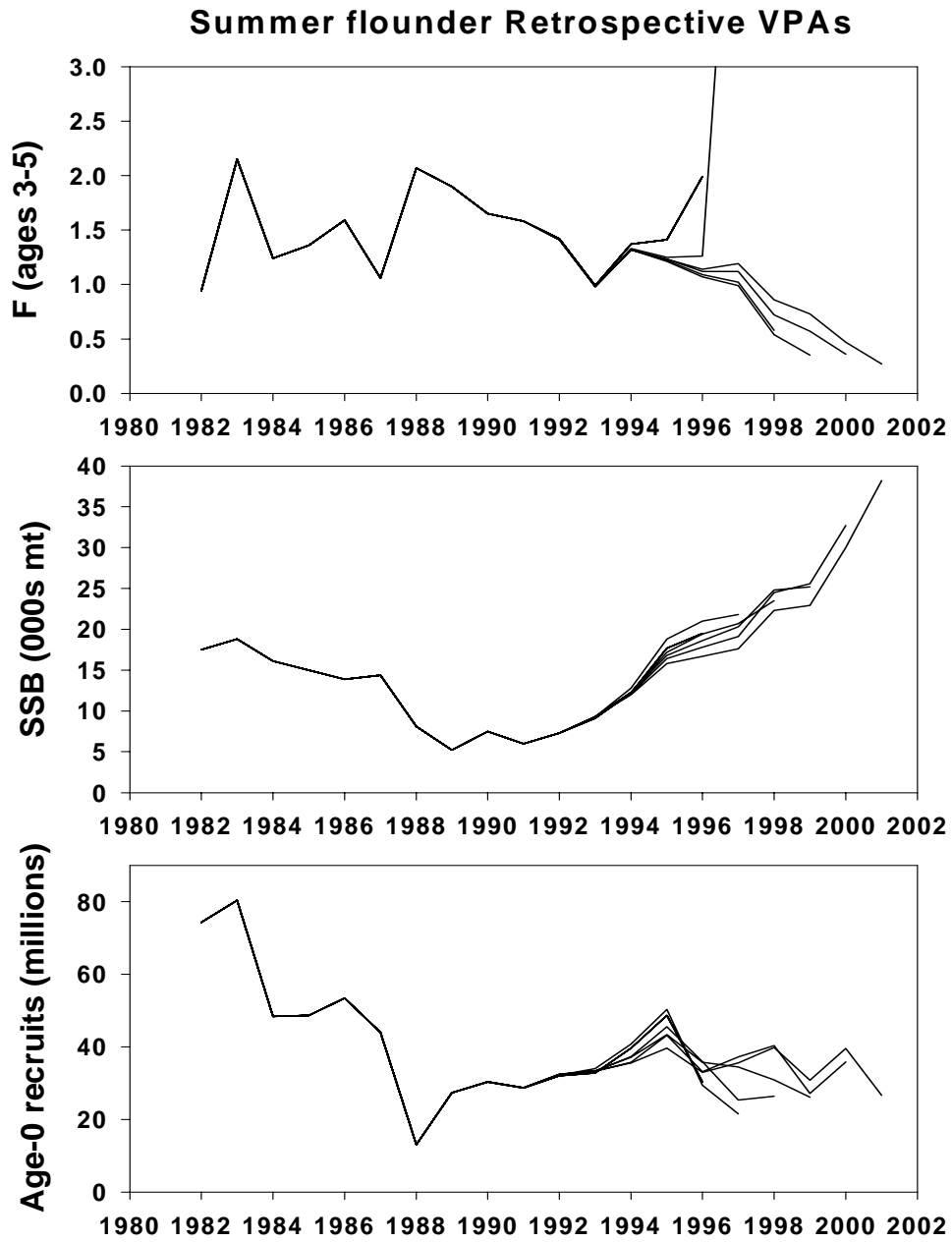


Figure A16. Retrospective VPAs for summer flounder.

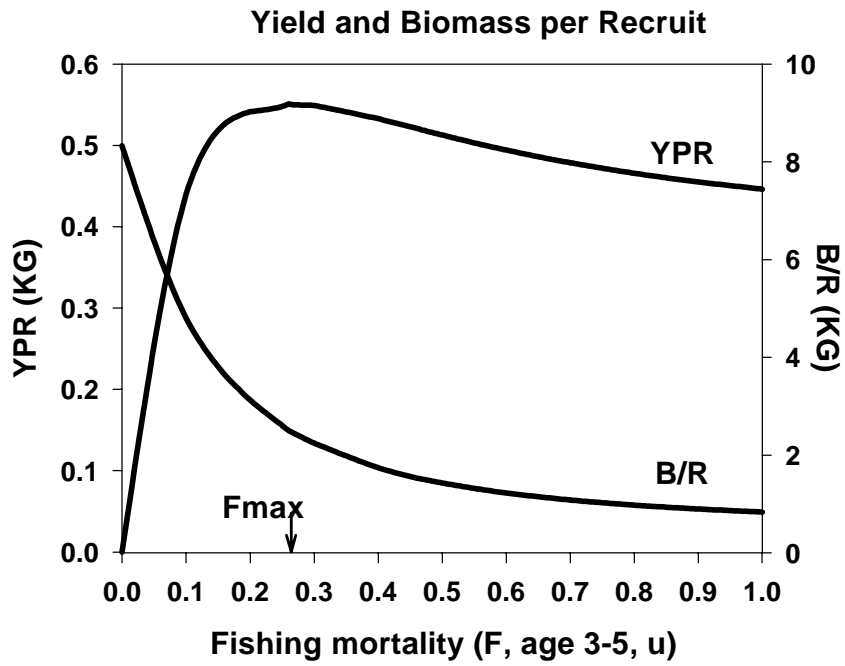


Figure A17. Yield per recruit (YPR) and biomass per recruit (B/R).

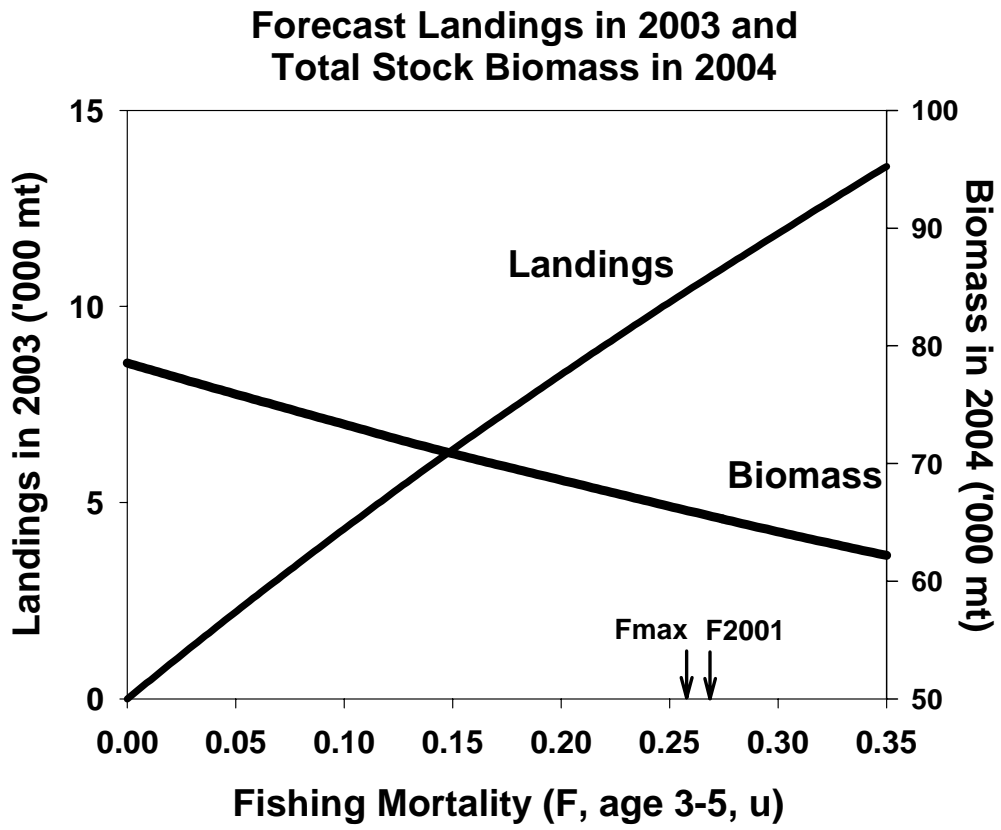


Figure A18. Forecast landings in 2003 and total stock biomass on Jan.1, 2004 over a range of fishing mortalities in 2003.

SFA Reference Points for Summer flounder

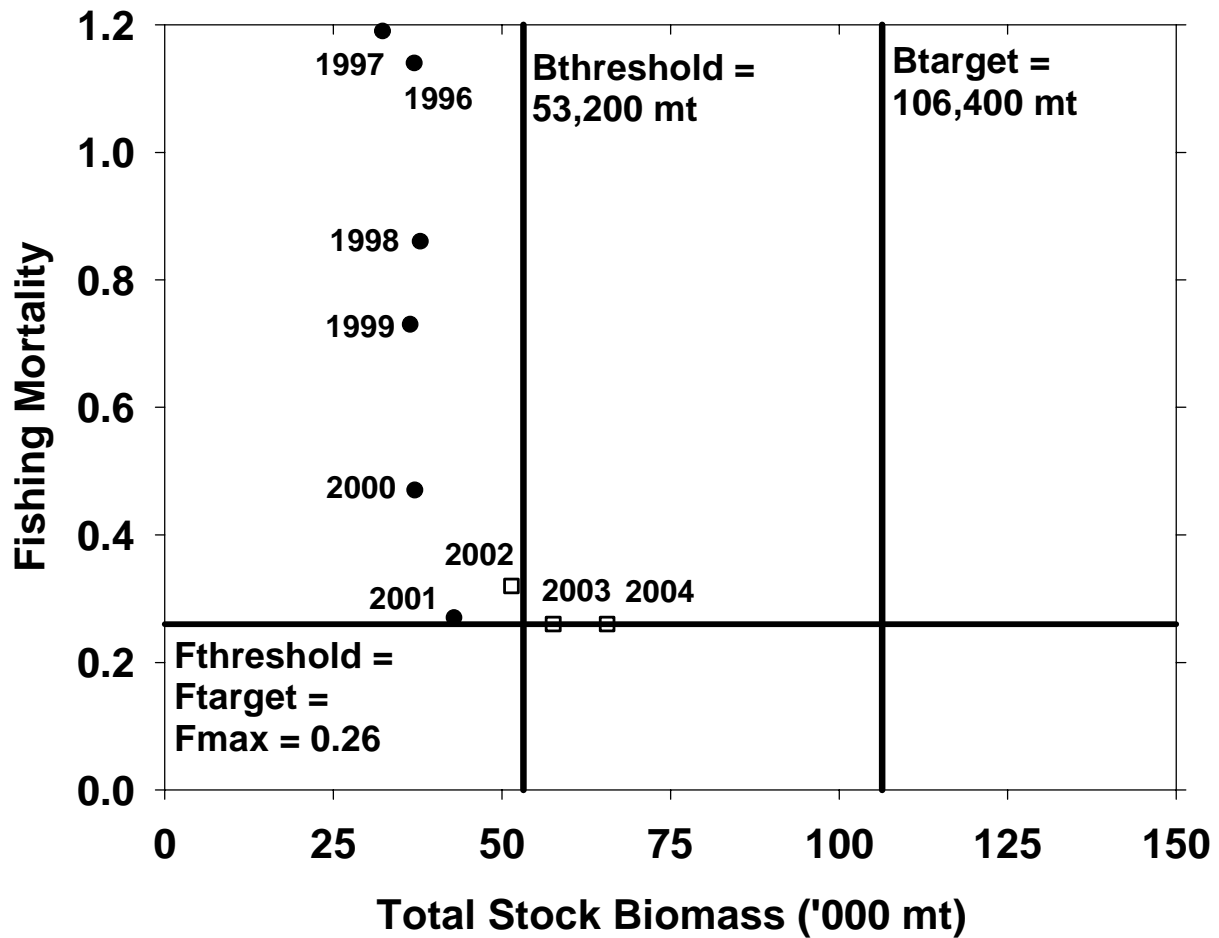


Figure A19. MAFMC FMP Amendment 12 SFA reference points for summer flounder, with 1996-2001 VPA estimates of F and total stock biomass, and forecast estimates of F and total stock biomass for 2002-2004.