APPENDIX B1: Trial runs for the VPA and ASAP models.
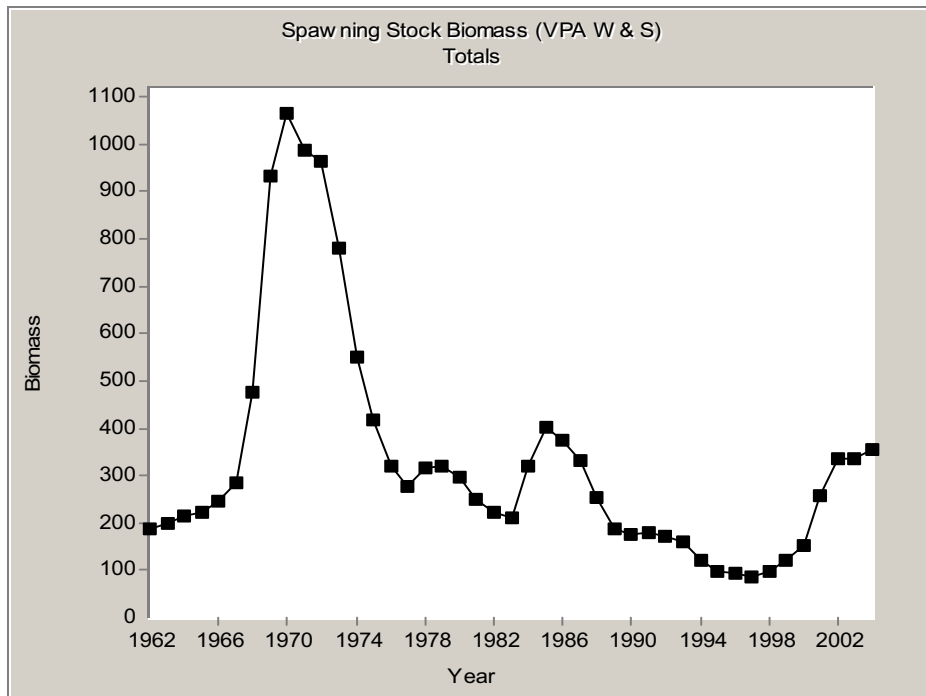

Figure 1 (APPENDIX B1). Spawning stock biomass for a VPA trial run with the winter and spring survey indices.
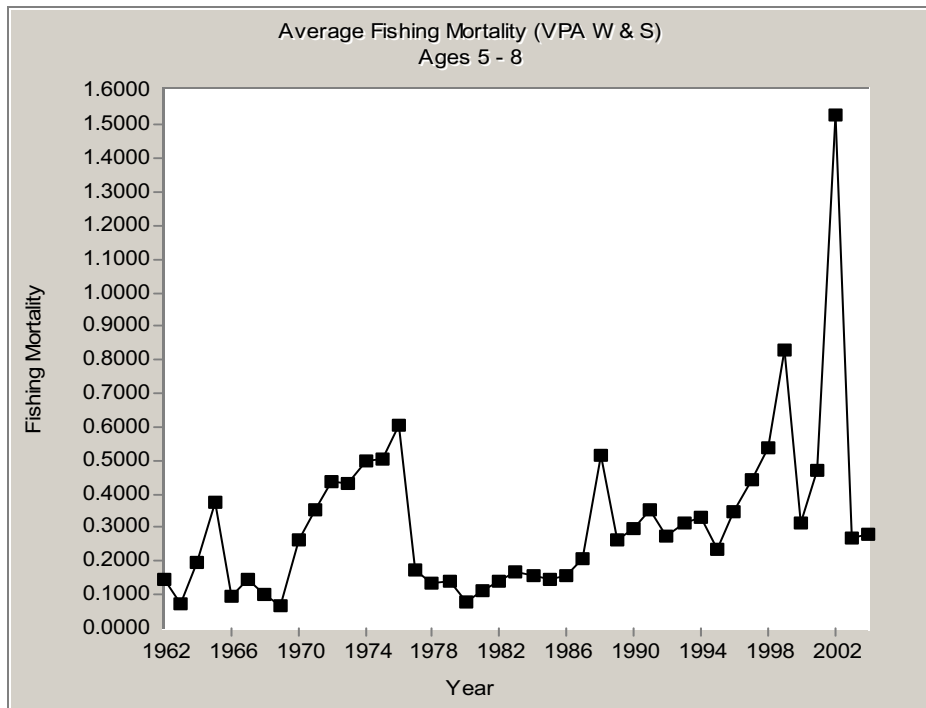

Figure 2 (APPENDIX B1). Fishing mortality for a VPA trial run with the winter and spring indices.
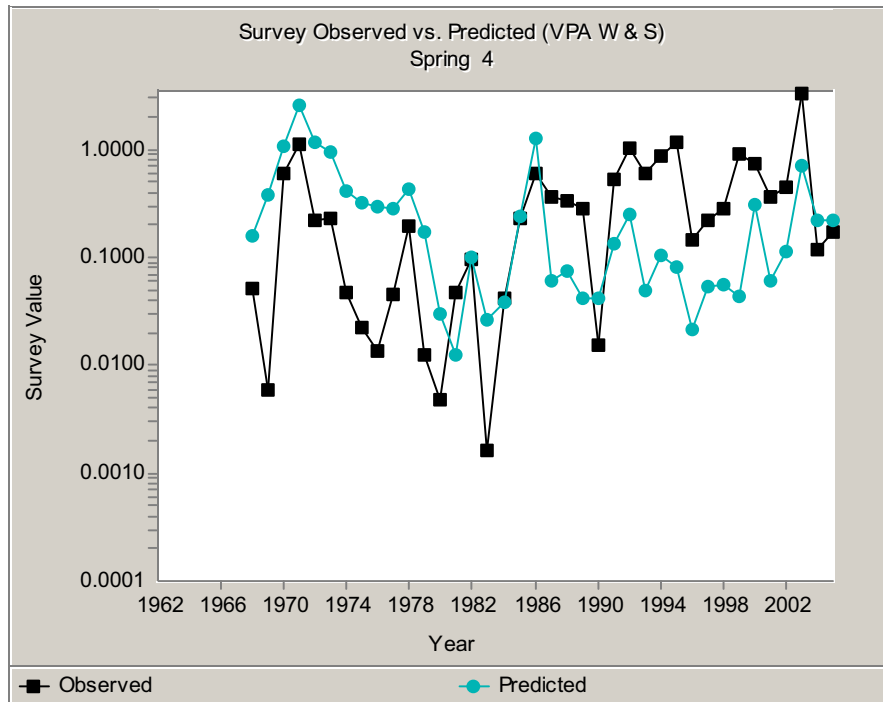
Figure 3 (APPENDIX B1).   Spring survey observed vs. predicted series (age 4) for a VPA trial run with the winter and spring survey indices.
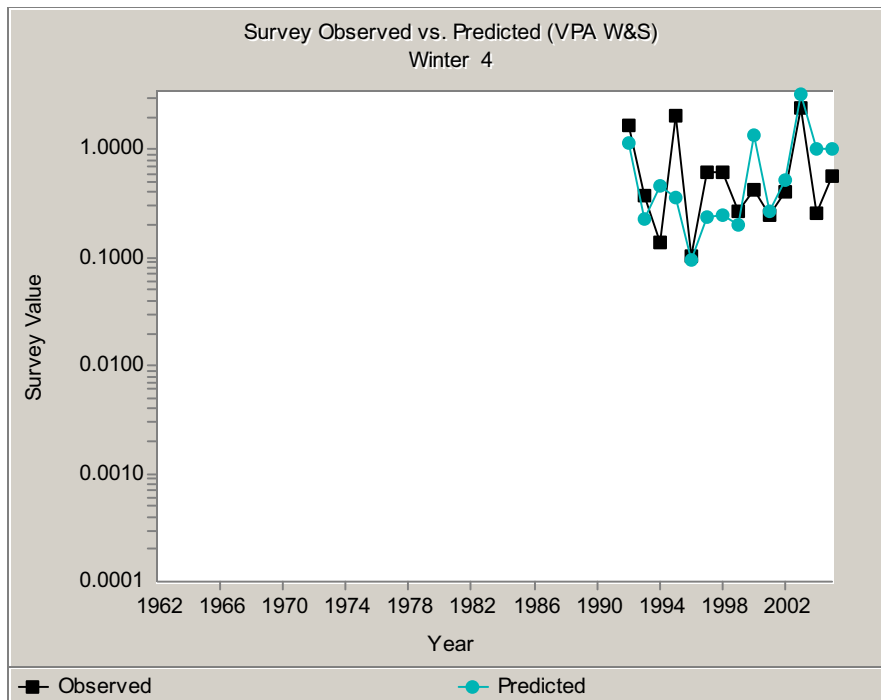

Figure 4 (APPENDIX B1). Winter survey observed vs. predicted series (age 4) for a VPA trial run with the winter and spring survey indices.
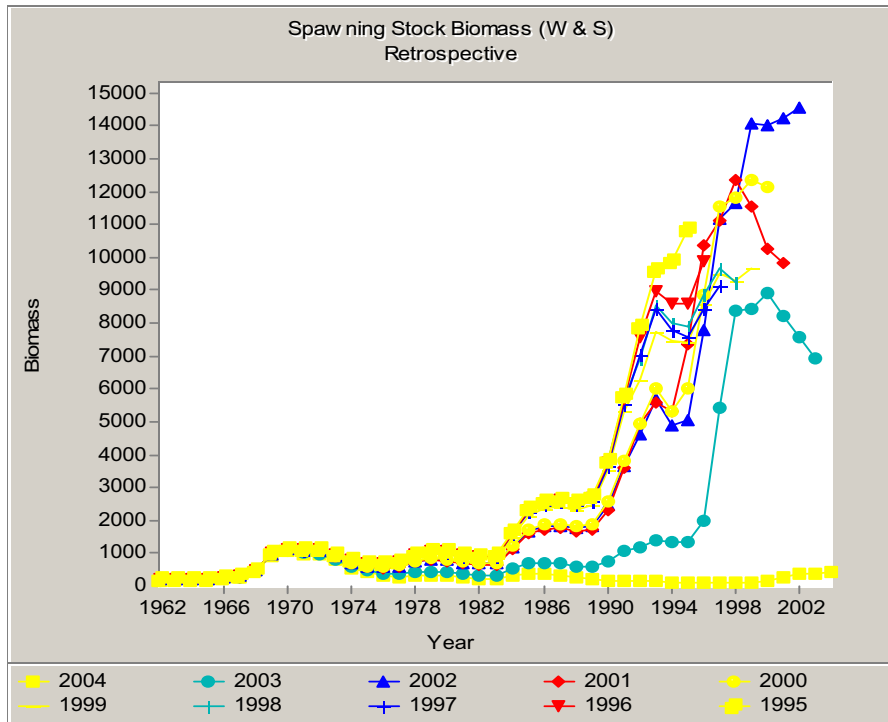
Figure 5 (APPENDIX B1). Retrospective pattern for SSB for a VPA trial run with the winter and spring survey indices.
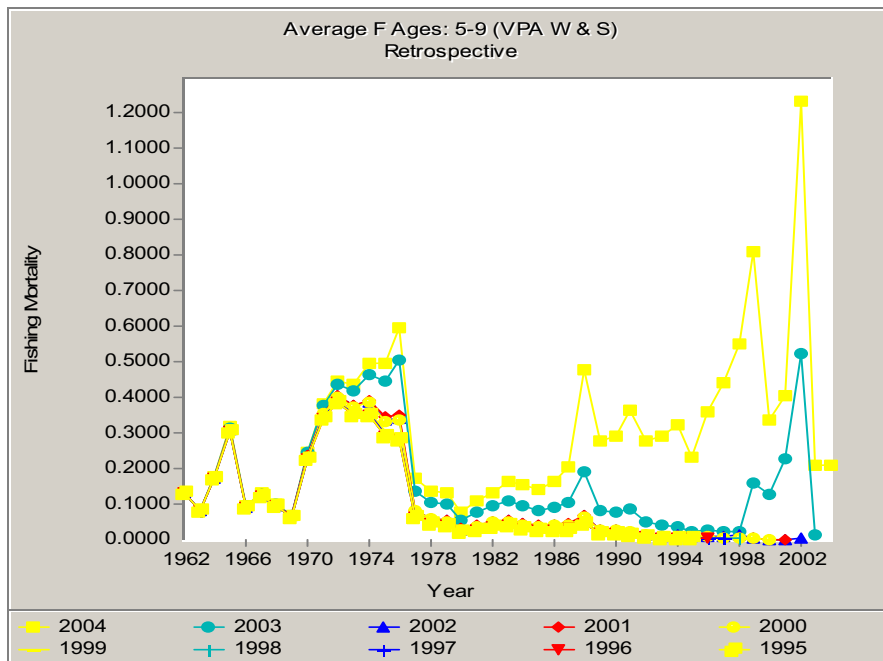

Figure 6 (APPENDIX B1). Retrospective pattern for SSB for a VPA trial run with the winter and spring survey indices.
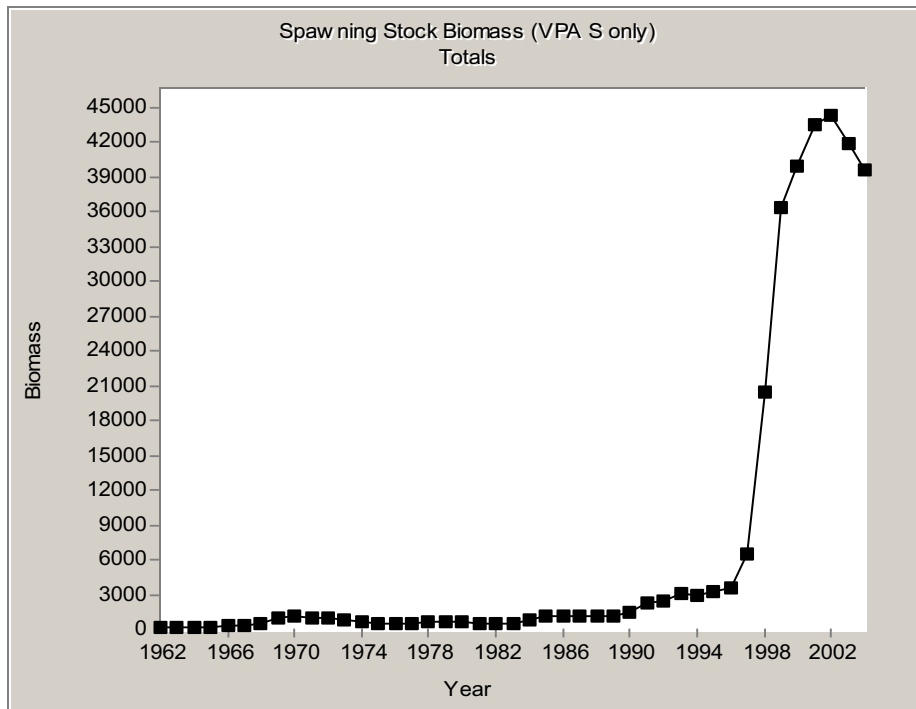
Figure 7 (APPENDIX B1). Spawning stock biomass for a VPA trial run with the spring survey indices.
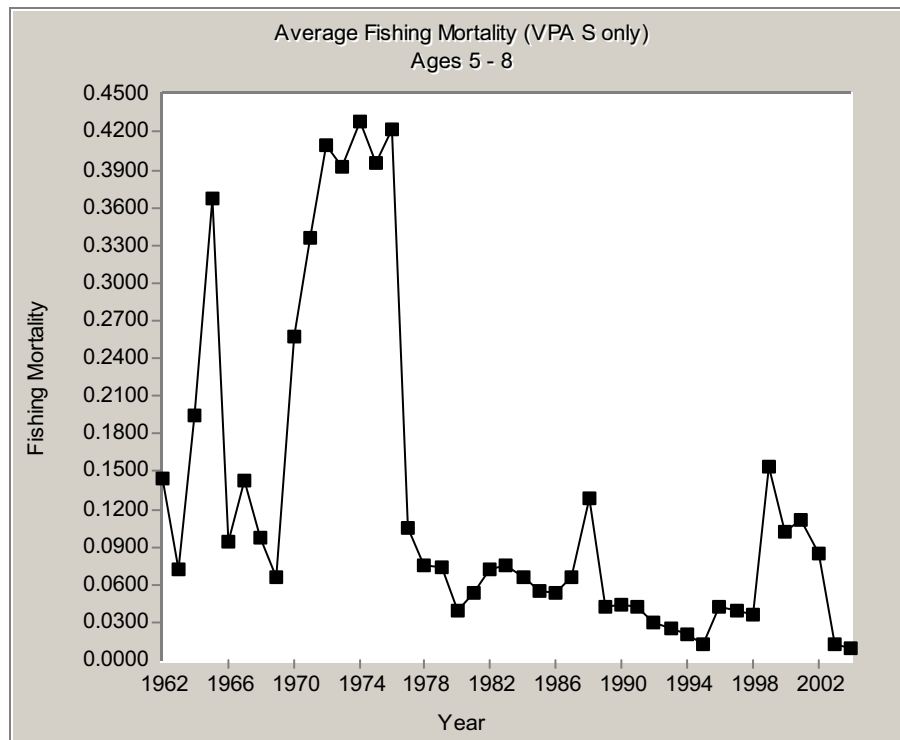

Figure 8 (APPENDIX B1). Fishing mortality for a VPA trial run with the spring survey indices.
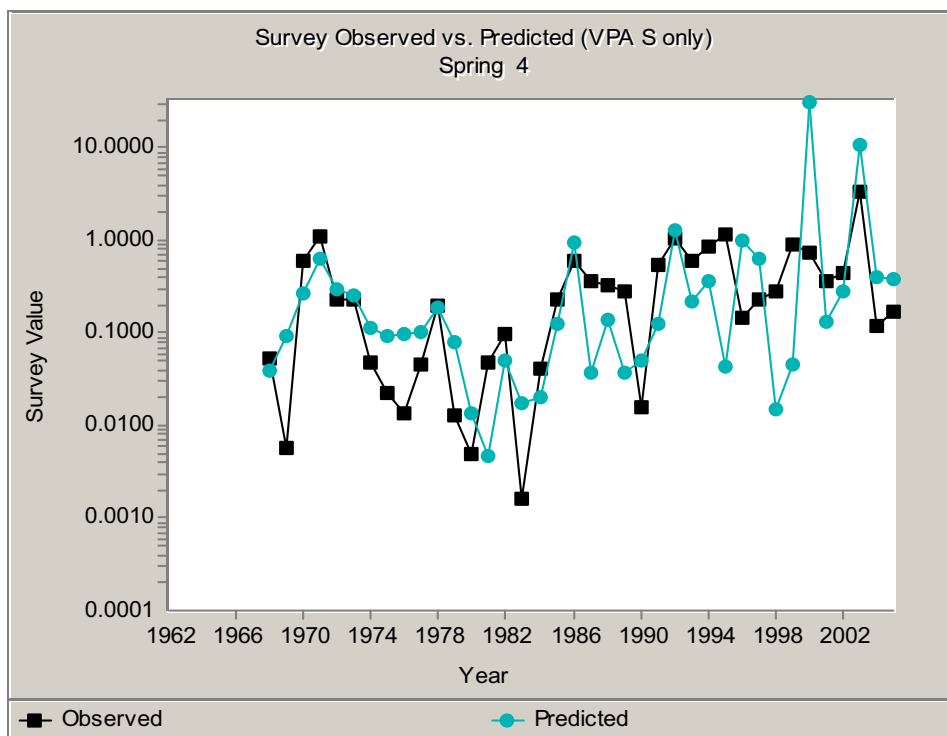
Figure 9 (APPENDIX B1).   Spring survey observed vs. predicted series (1968-2004, age 4) for a VPA trial run with the spring survey indices.
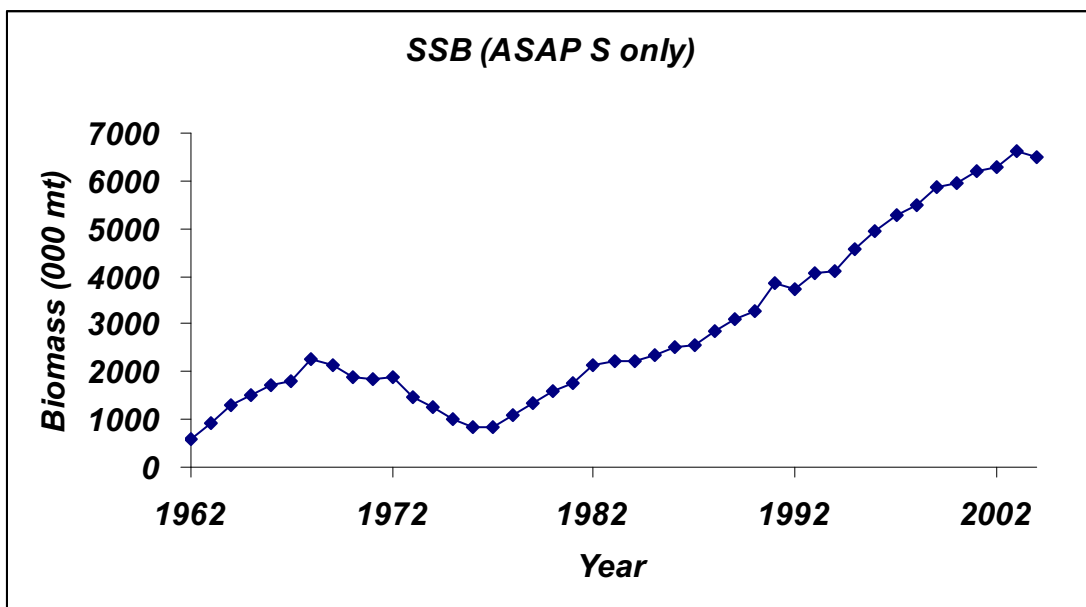

Figure 10 (APPENDIX B1). Spawning stock biomass for an ASAP trial run with the spring survey only.
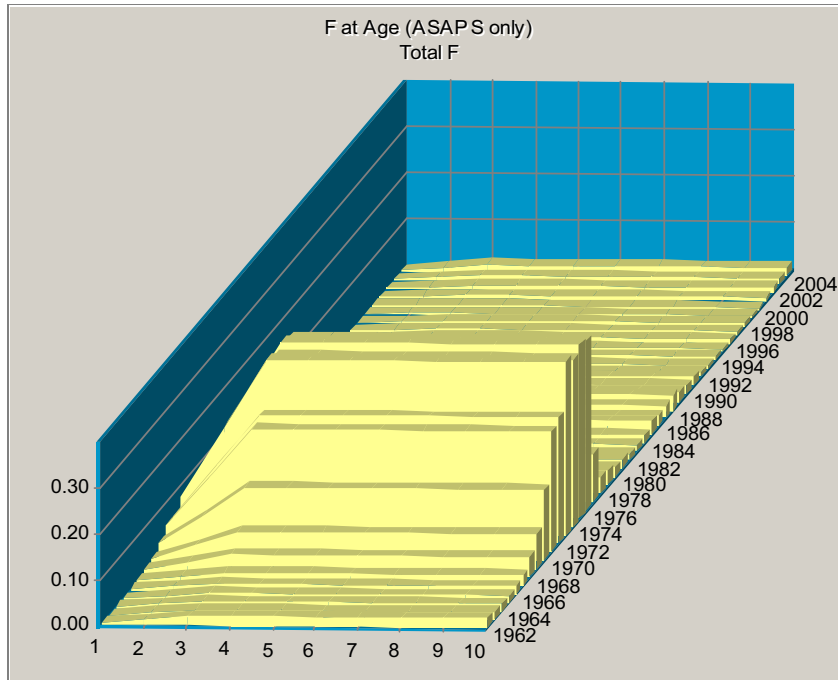
Figure 11 (APPENDIX B1).   Fishing mortality by age and year for an ASAP trial run with the spring survey only.
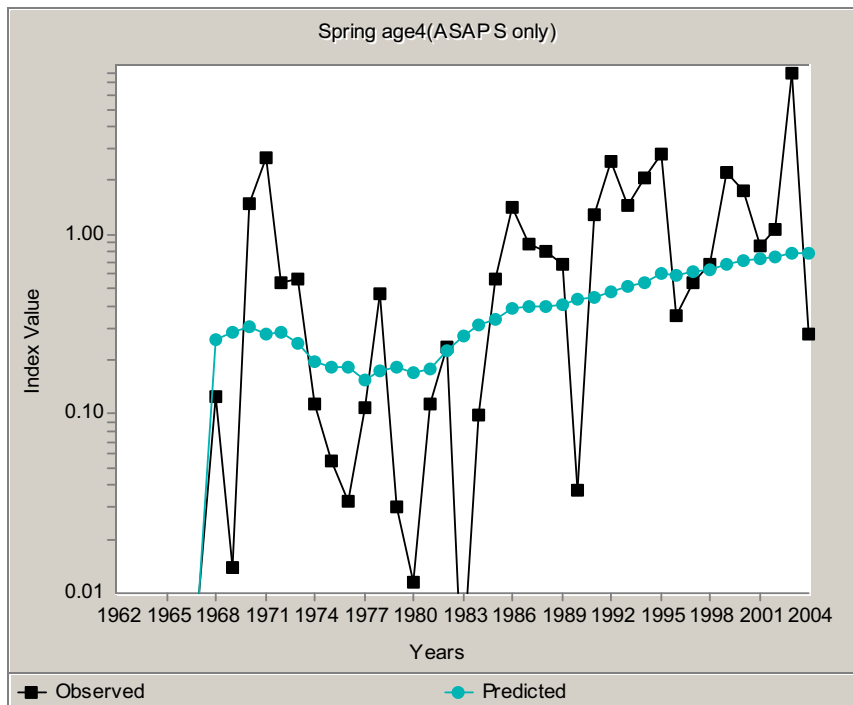

Figure 12 (APPENDIX B1).   Spring survey observed vs. predicted series (1968-2004, age 4) for an ASAP trial run with the spring survey only.
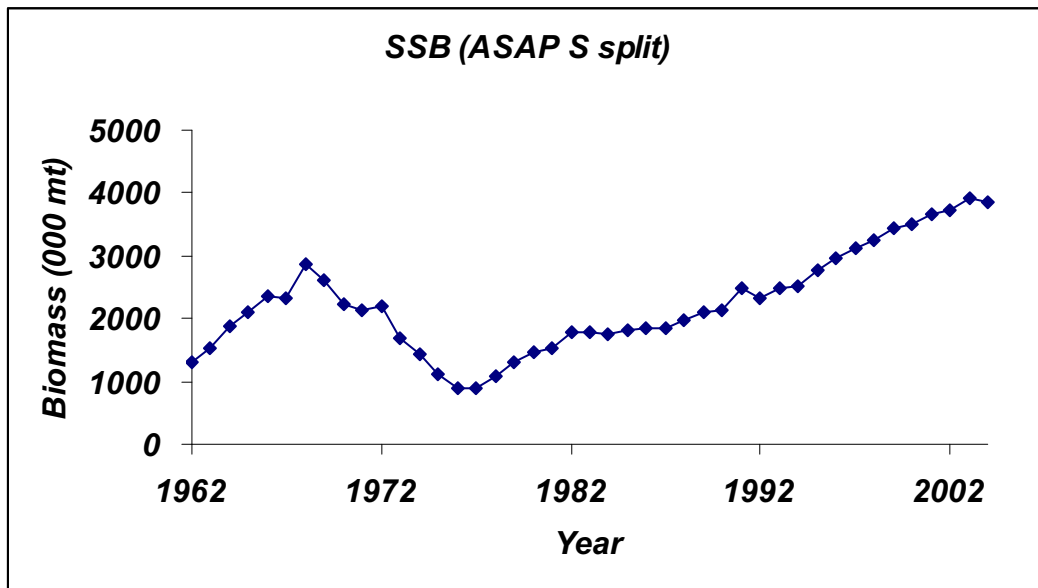
Figure 13 (APPENDIX B1).   Spawning stock biomass for an ASAP trial run with the spring survey split into pre 1985 (1968-1984) and post 1985 (1985-2004) series.
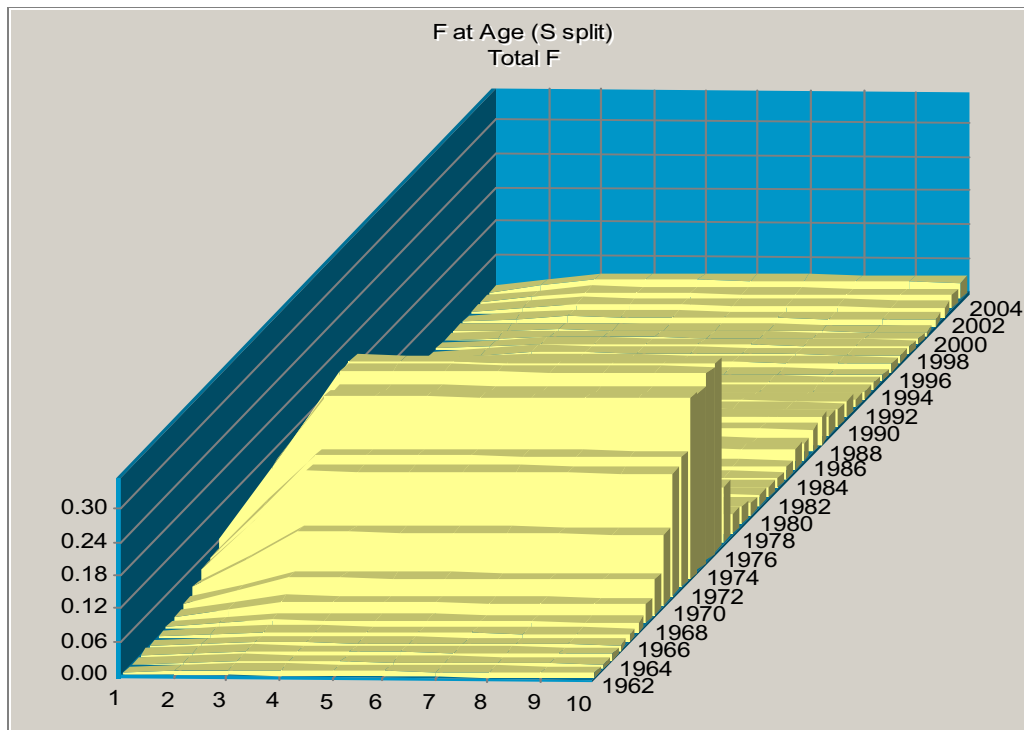

Figure 14 (APPENDIX B1).   Fishing mortality by age and year for an ASAP trial run with the spring survey split into pre 1985 (1968-1984) and post 1985 (1985-2004) series.
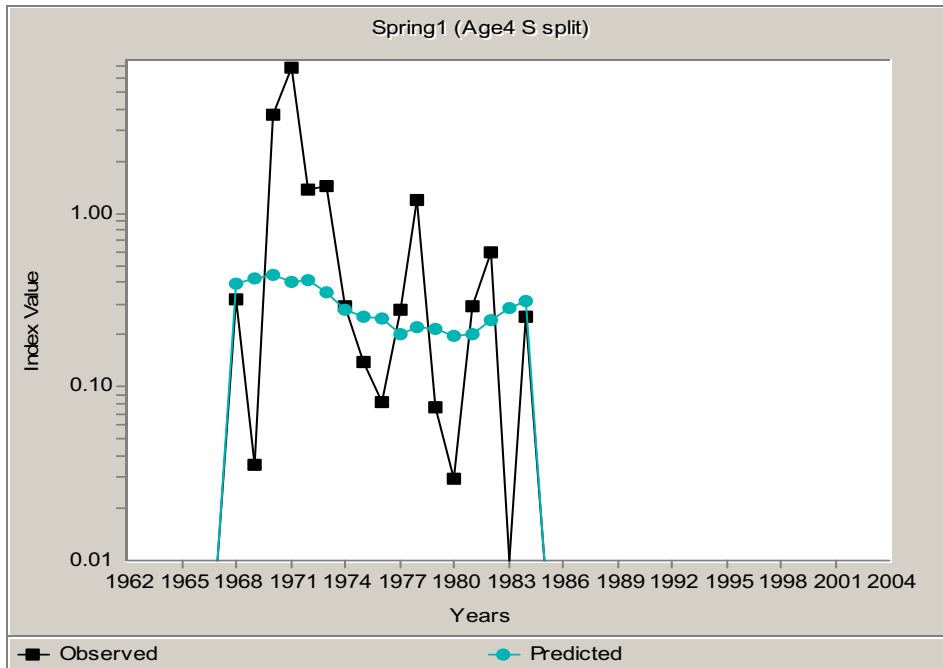
Figure 15 (APPENDIX B1).   Spring survey observed vs. predicted series (1968-1984, age 4)
for an ASAP trial run with the spring survey split into pre 1985 (1968-1984) and post 1985
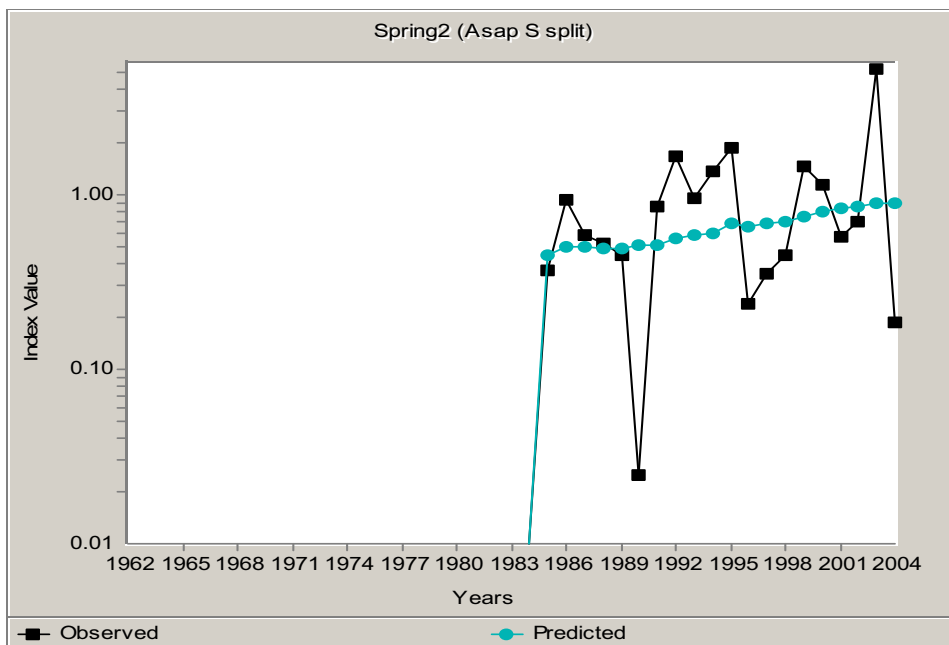(1985-2004) series.

Figure 16 (APPENDIX B1).   Spring survey observed vs. predicted series (1985-2004, age 4)
for an ASAP trial run with the spring survey split into pre 1985 (1968-1984) and post 1985
(1985-2004) series.
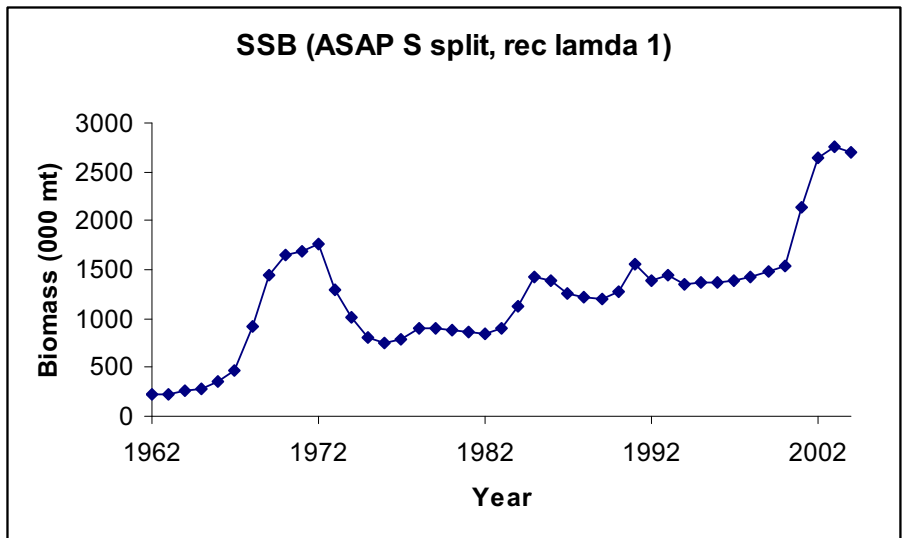
SSB (ASAP S split, rec lamda 1)

Figure 17 (APPENDIX B1). Spawning stock biomass for an ASAP trial run with the spring survey split into pre 1985 (1968-1984) and post 1985 (1985-2004) series and a B-H SR relationship with lambda = 1.

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F at Age (ASAP S split, rec1)
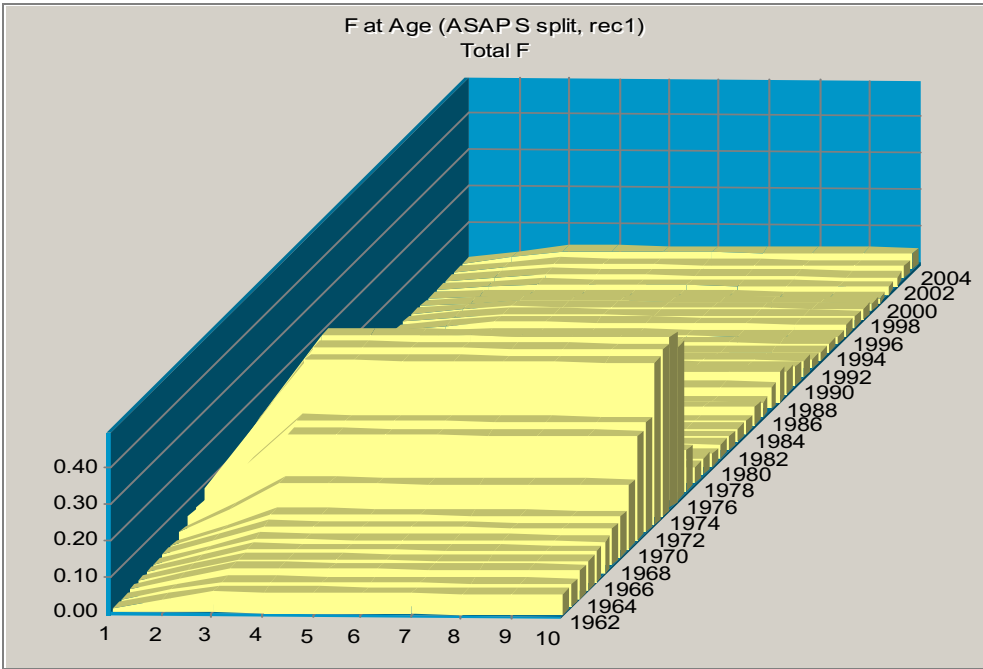**Total F**

Figure 18 (APPENDIX B1). Fishing mortality for an ASAP trial run with the spring survey split into pre 1985 (1968-1984) and post 1985 (1985-2004) series and a B-H SR relationship with lambda = 1.

Figure 19 (APPENDIX B1).   Spring survey observed vs. predicted series (1968-1984, age 4) for an ASAP trial run with the spring survey split into pre 1985 (1968-1984) and post 1985 (1985-2004) series and a B-H SR relationship with lambda = 1.
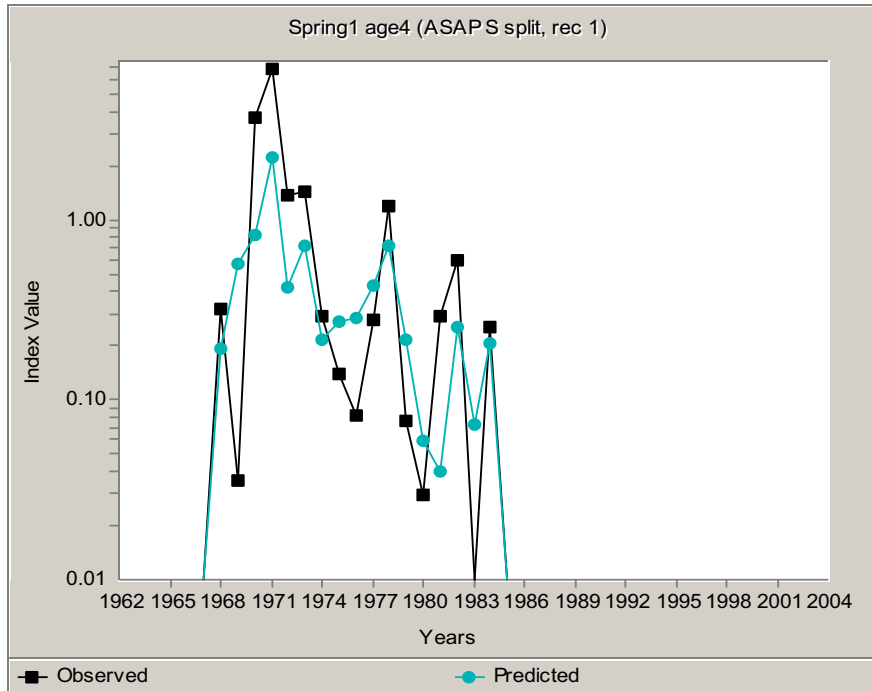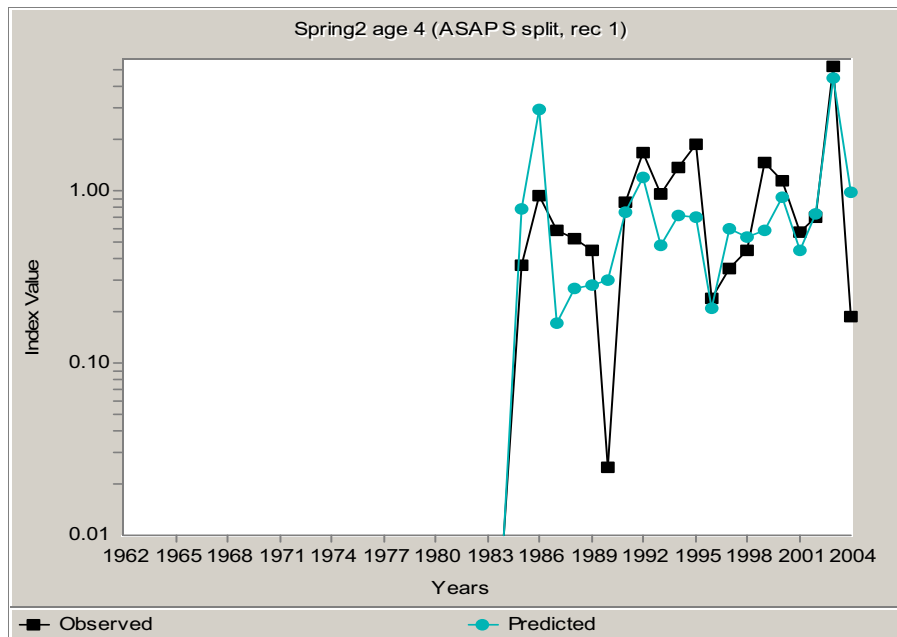

Figure 20 (APPENDIX B1).   Spring survey observed vs. predicted series (1985-2004, age 4) for an ASAP trial run with the spring survey split into pre 1985 (1968-1984) and post 1985 (1985-2004) series and a B-H SR relationship with lambda = 1.