

Preliminary Stock Assessment for Yellowfin Tuna in the Indian Ocean using Stock Synthesis II (SS2)

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We used the fixed selectivity in the fishery-2 (PS: purse seine) and 3 (Gillnet) in our Base-case based on the Figure A1. As a result, the fitting of the length composition in the Gillnet seems to be improved (Please see the Figure A3).

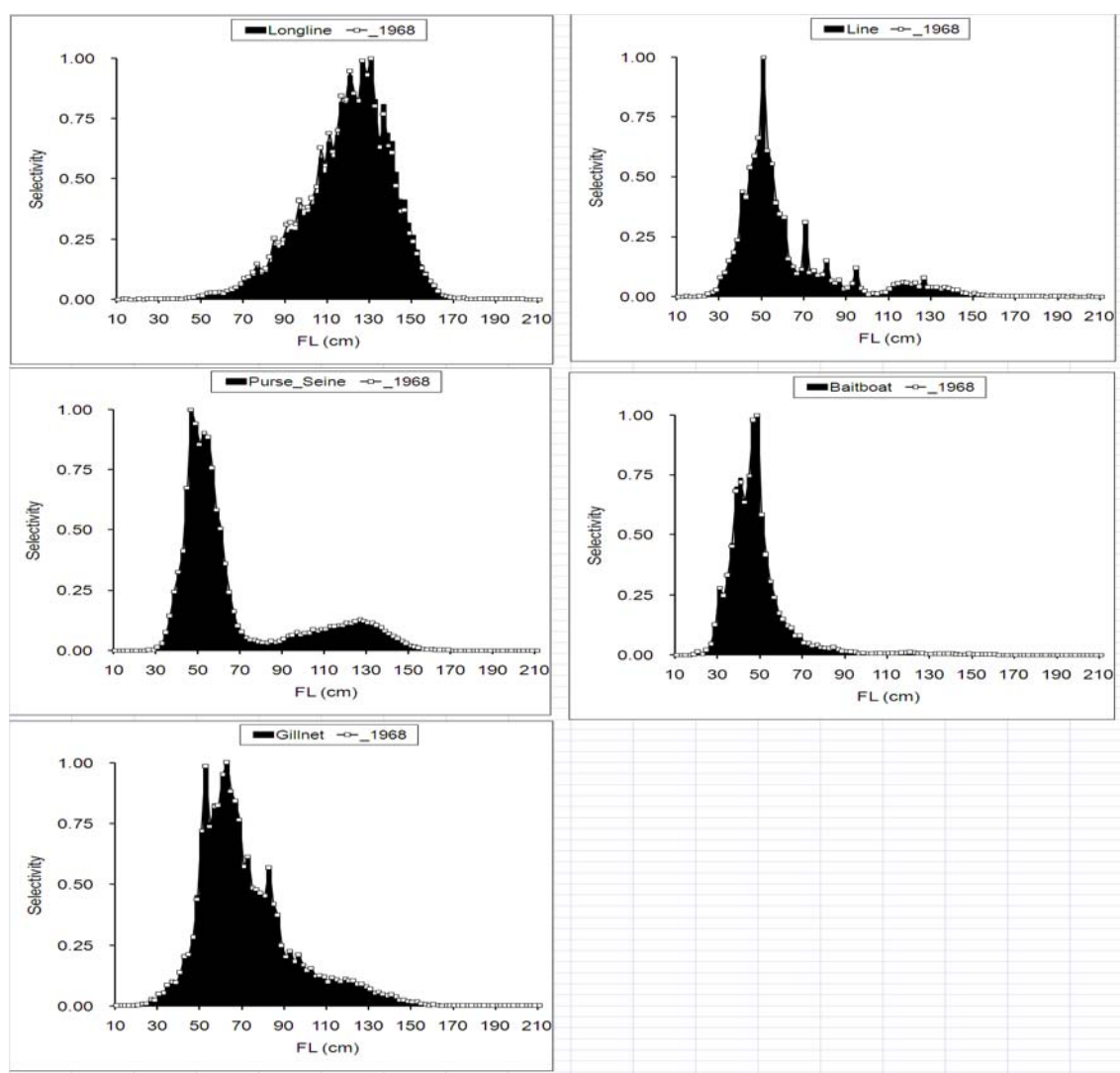
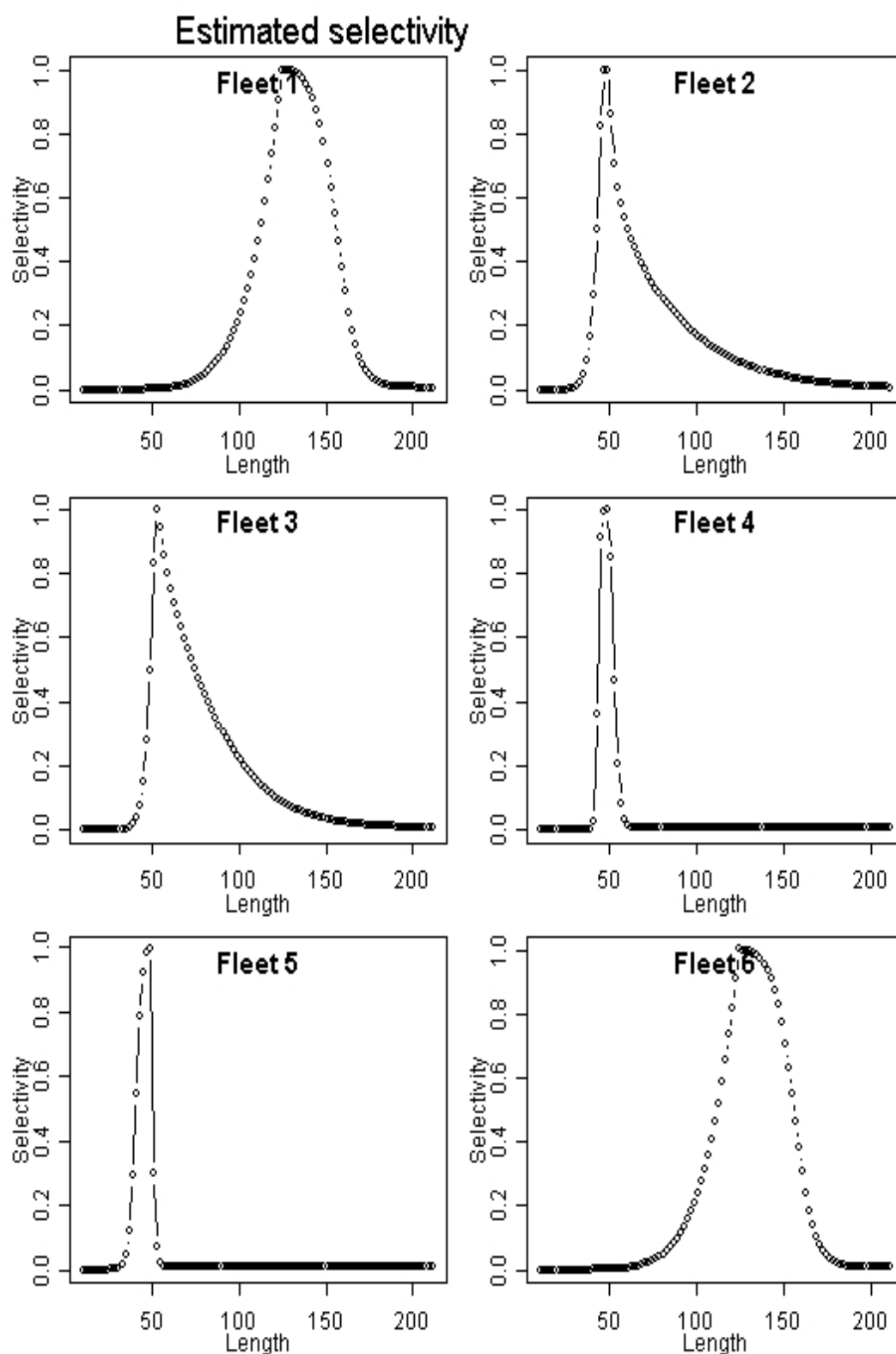


Figure A1 Observed length-composition in each gear from 1968 to 2005.



FigureA2 Estimated size-dependent (double-logistic) selectivity by each fleet.
(1- Longline, 2-Purse seine, 3-Gillnet, 4-Line and 5-Baitboat).

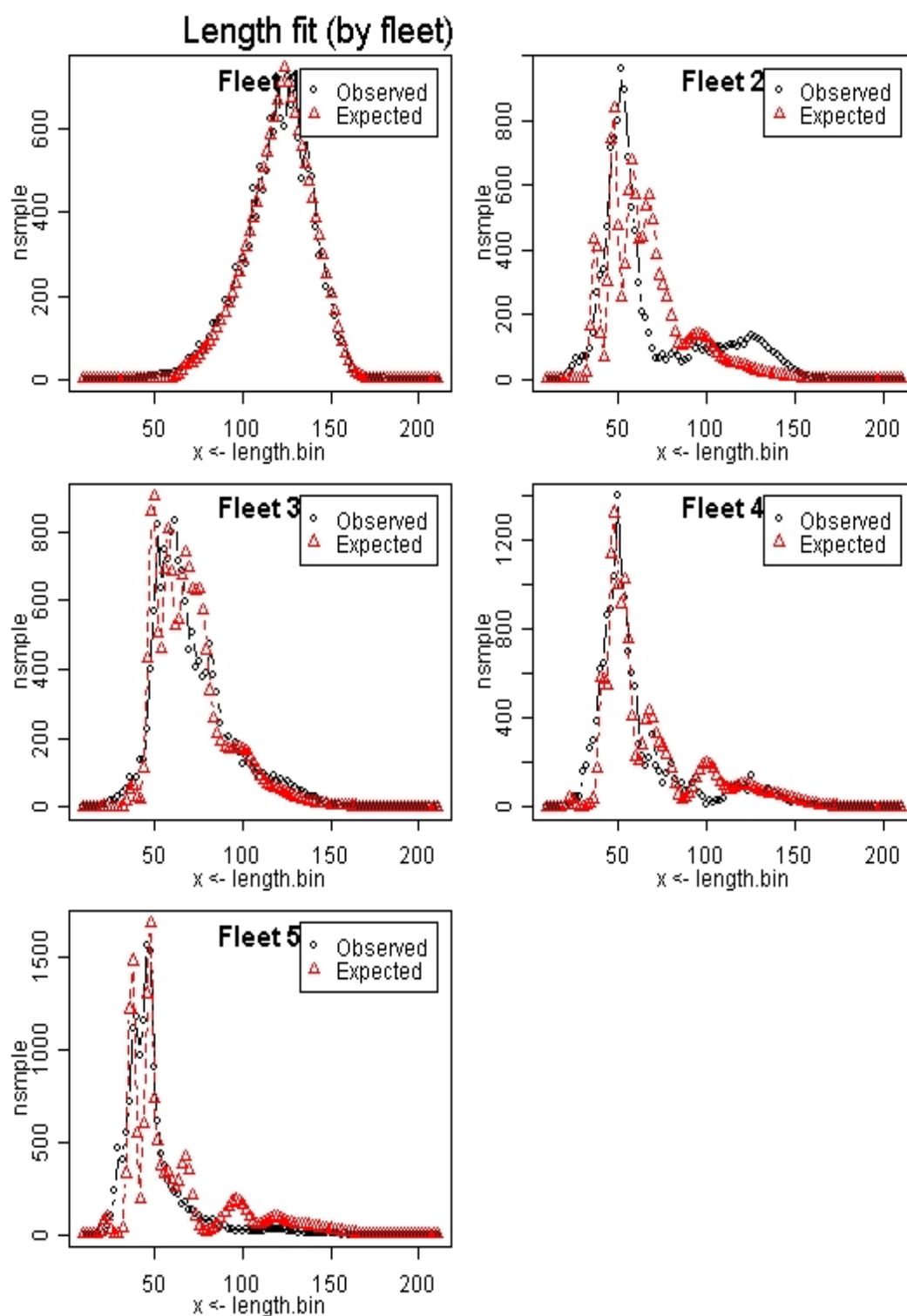


Figure A3 Observed and Estimated length-composition from our SS2 model.
(1- Longline, 2-Purse seine, 3-Gillnet, 4-Line and 5-Baitboat).

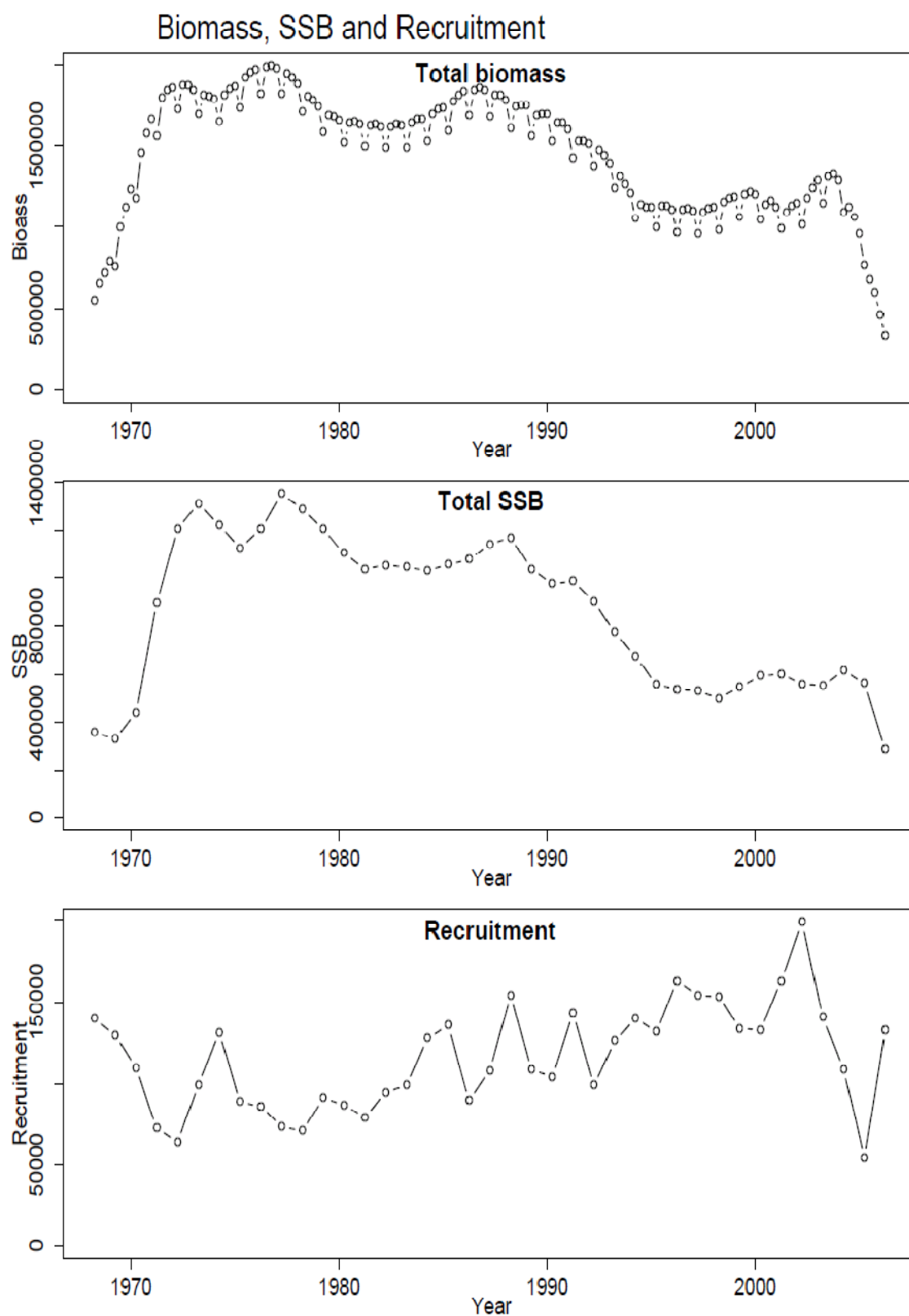


Figure A4 Estimated total biomass, SSB and Recruitment (1000*number)