Further west coast rock lobster assessment output plots

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This Working paper reports on some further plots requested by review panel. Note that due to time constraints certain plots for Area 3+4 and Area 7 have been omitted.

Selectivity functions

Figures 1a-e compares directly the estimated model selectivity functions between the original “o” and new “n” model variants. Selectivity functions have been re-scaled so that selectivity for a 90mm male lobster = 1.0 for each gear type. Note that females have a scaling parameter that allows their selectivity to be bigger or smaller than the males.

CPUE and F% plots

Figures 2a-c reports CPUE and F% fits to data for both original “o” and “new” variants.

Figure 3a-c report the observed vs predicted CPUE and F% values.

Figure 1a: Area 1+2 selectivity functions (only hoops are used).

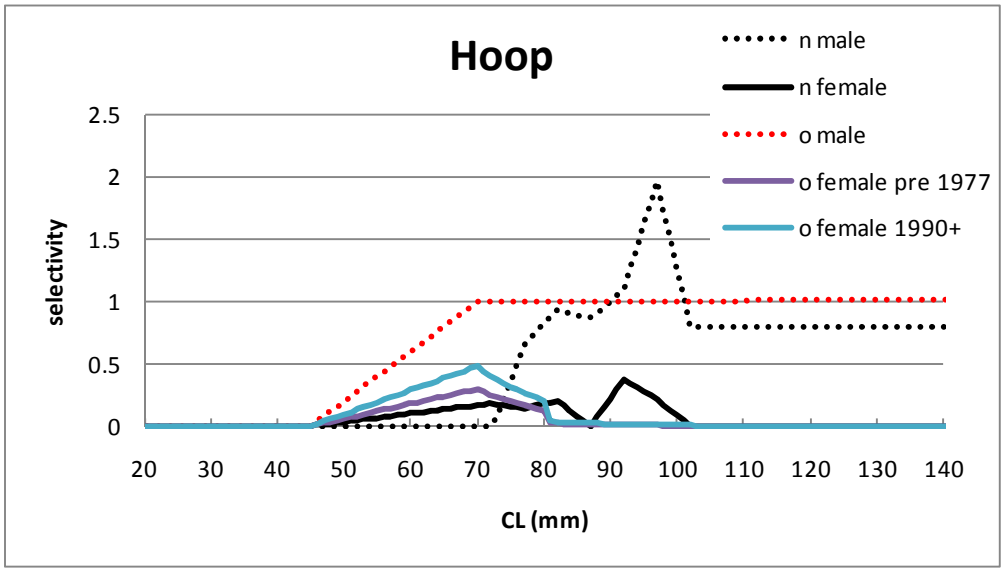


Figure 1b: Area 3+4 selectivity functions.

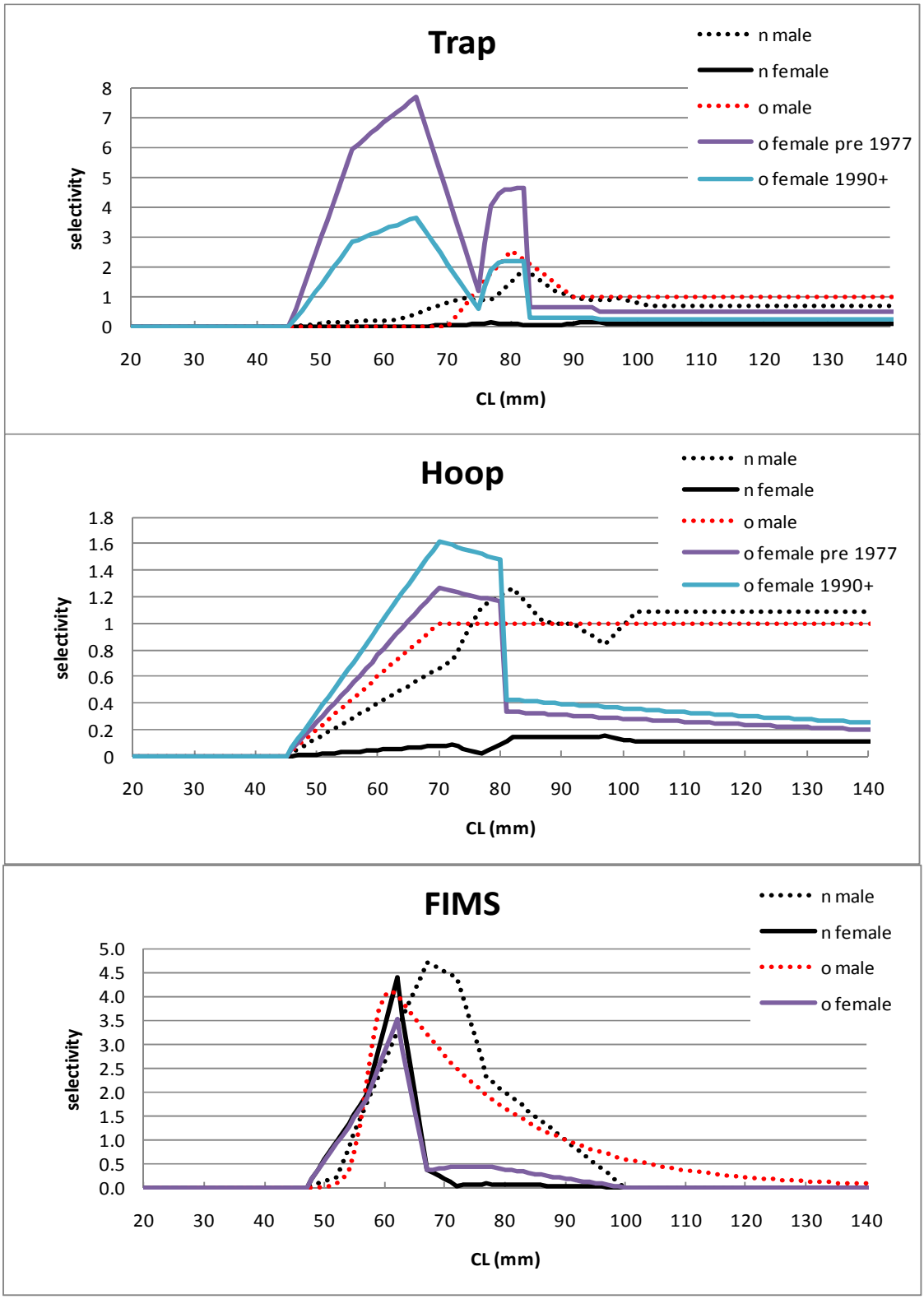


Figure 1c: Area 5+6 selectivity functions.

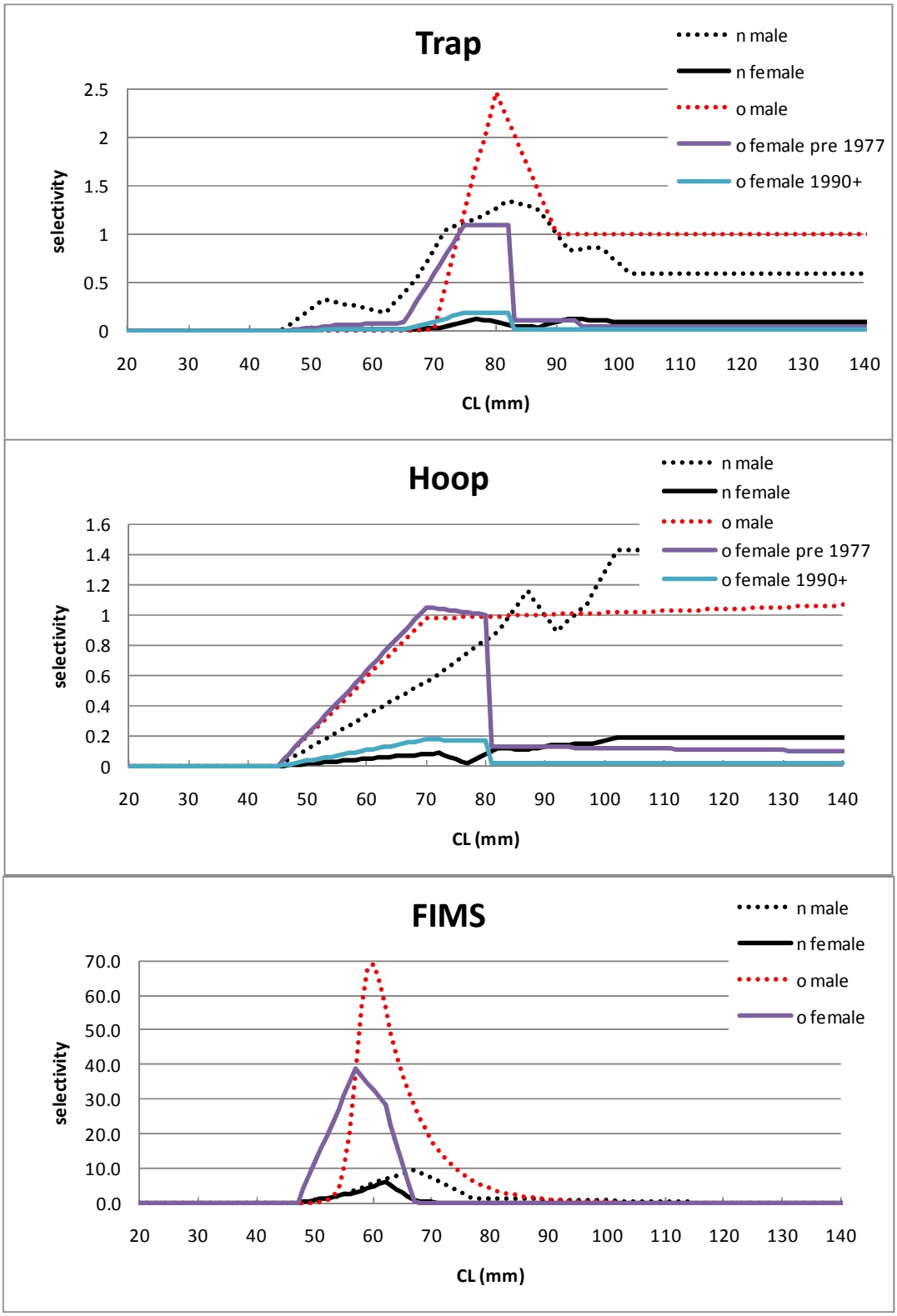
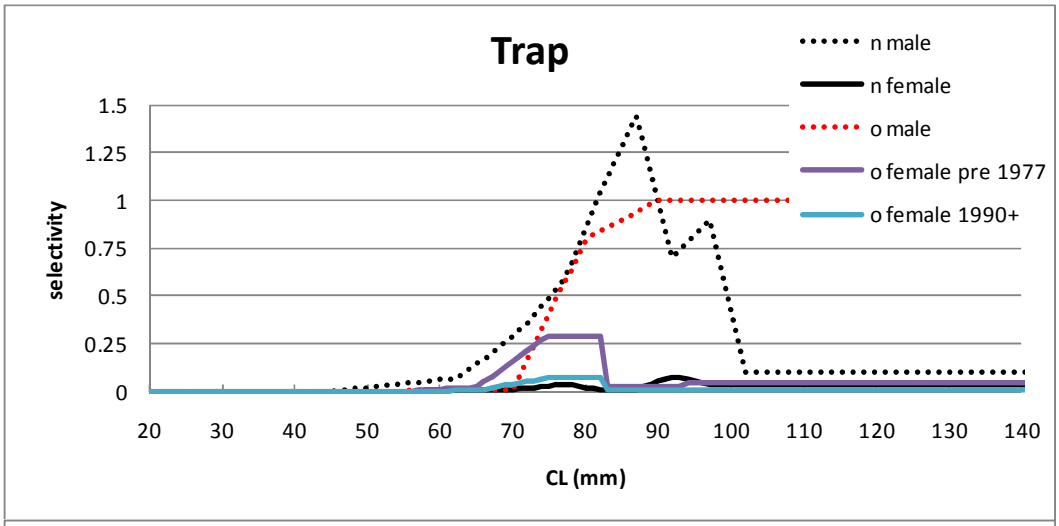
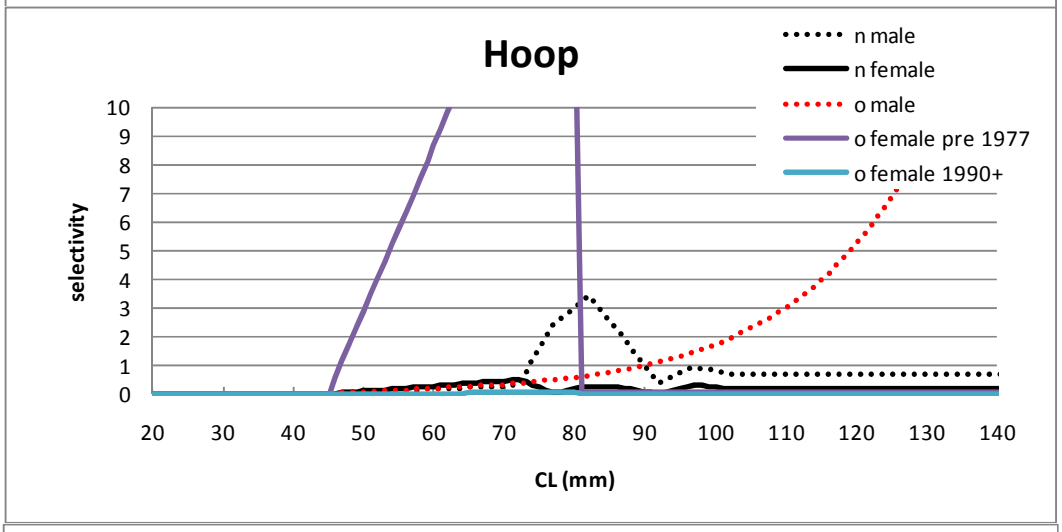


Figure 1d: Area 7 selectivity functions (Note there is very little hoop CAL data).





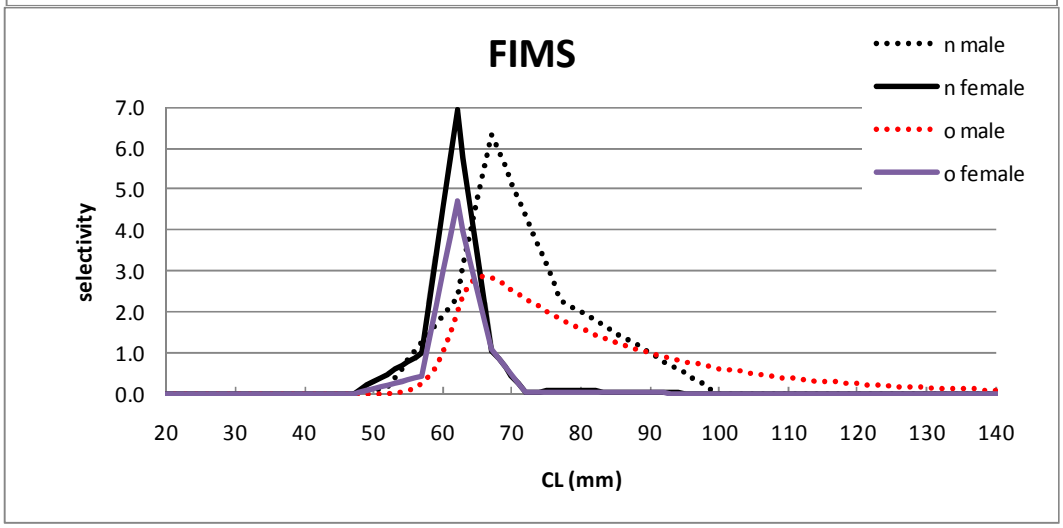
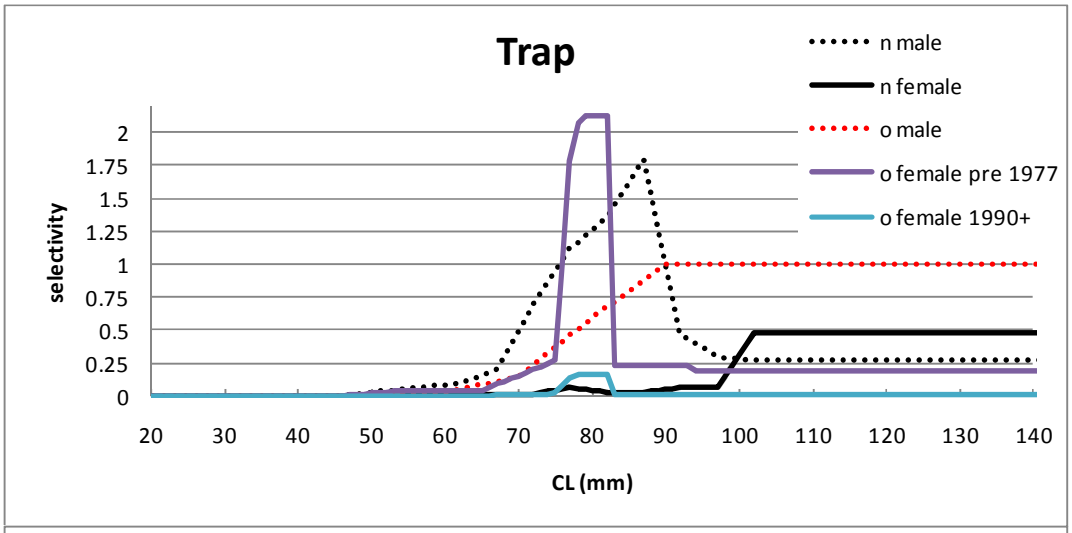
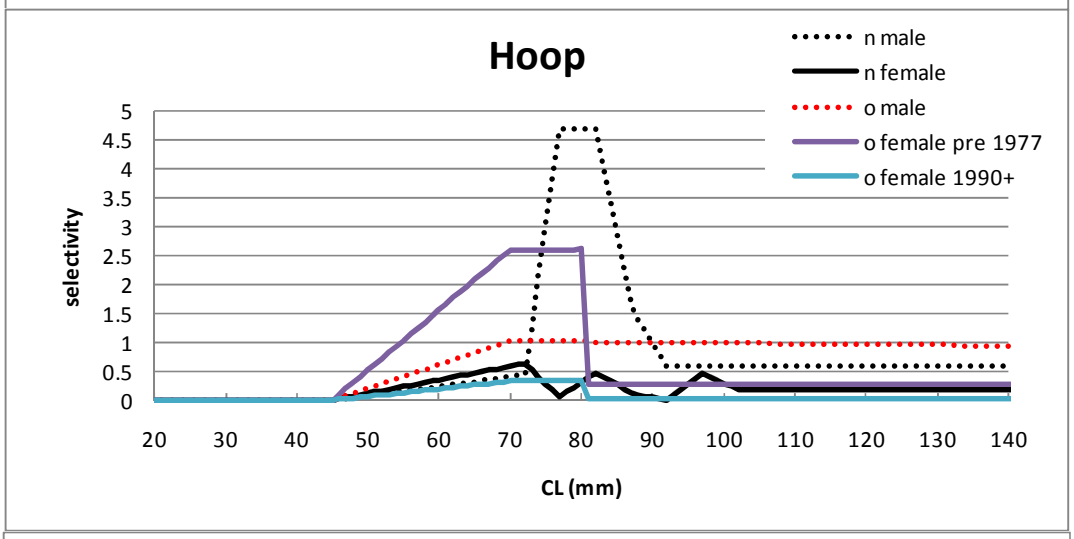


Figure 1d: Area 8 selectivity functions.





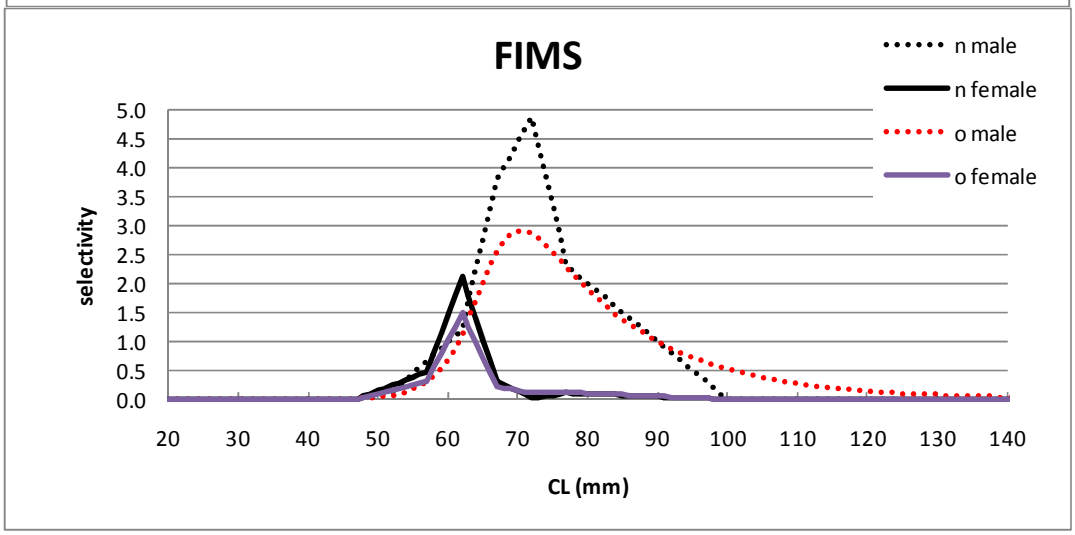


Figure 2a: Area 1+2 CPUE and F% fits to CPUE and F% (“n” = new variant, “o” = original variant).

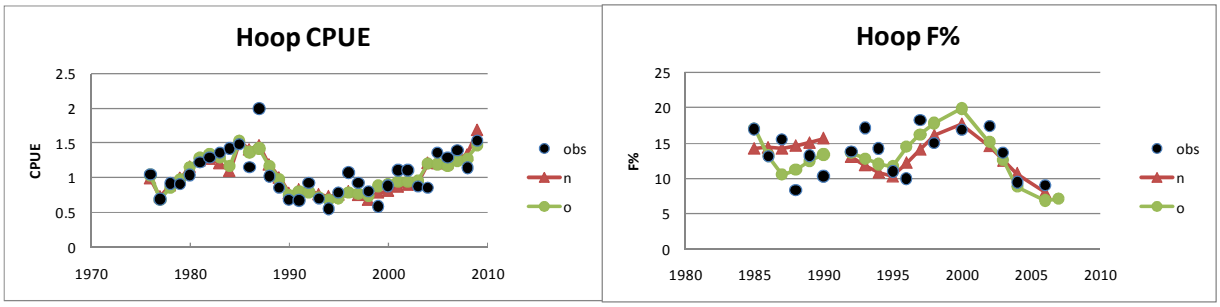


Figure 2b: Area 5+6 CPUE and F% fits to CPUE and F% (“n” = new variant, “o” = original variant).

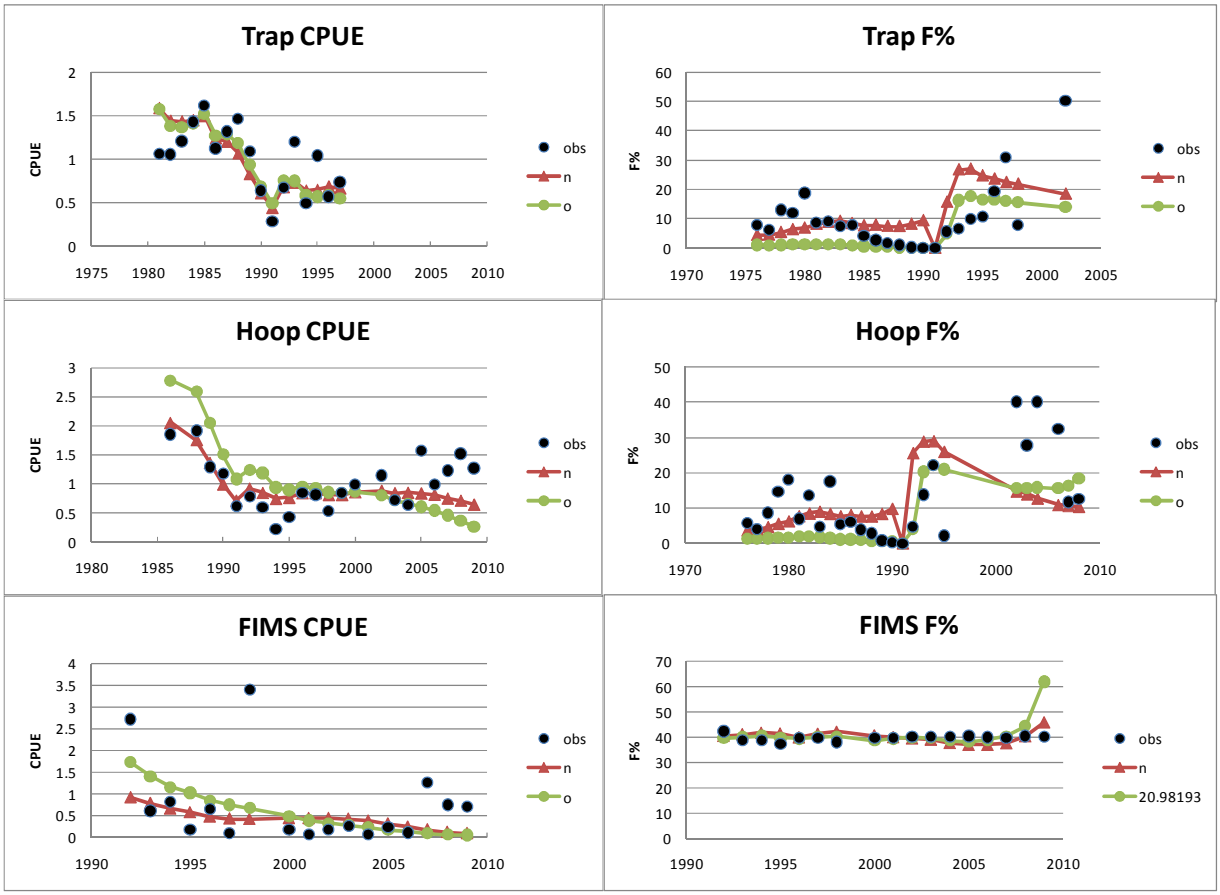


Figure 2c: Area 8 CPUE and F% fits to CPUE and F% ("n" = new variant, "o" = original variant).

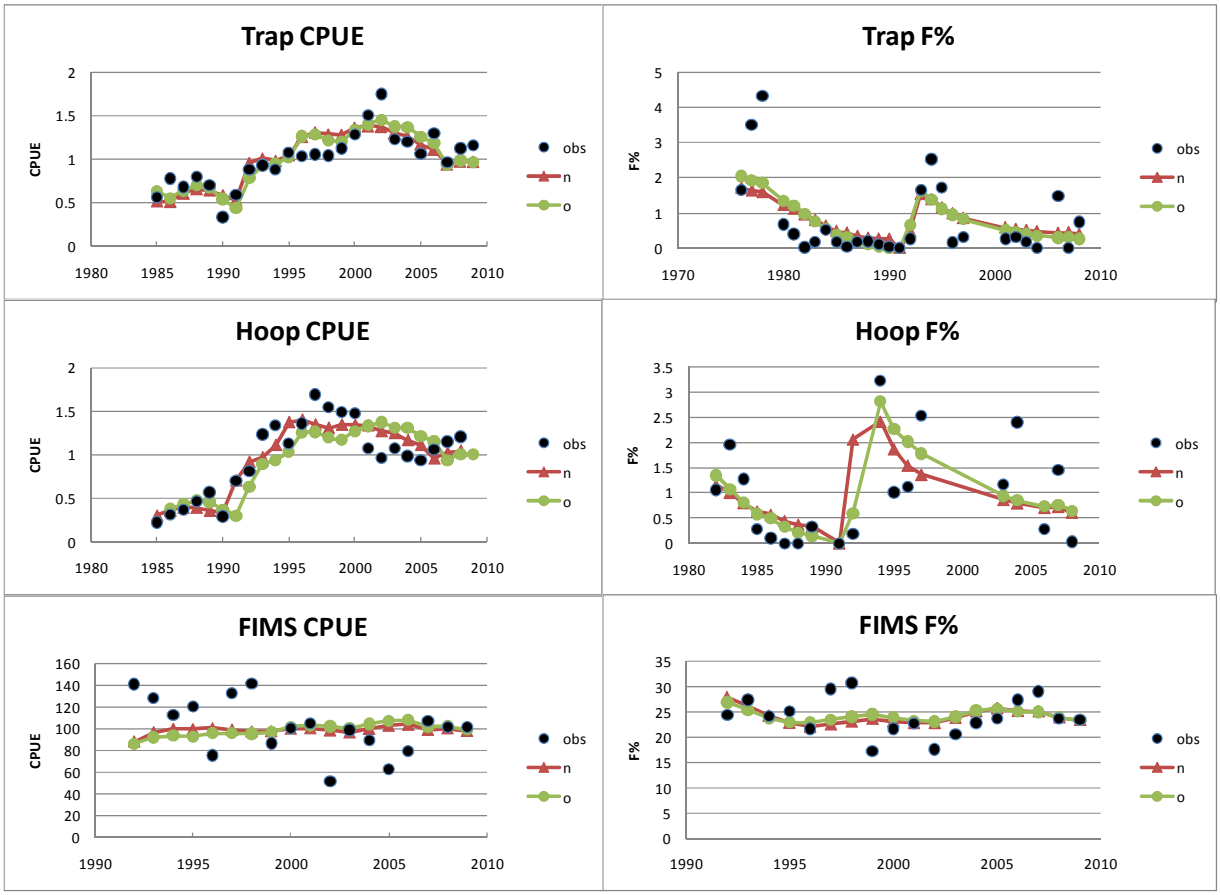


Figure 3a: Area 1+2 CPUE and F% “obs” versus “predicted” for both model variants.

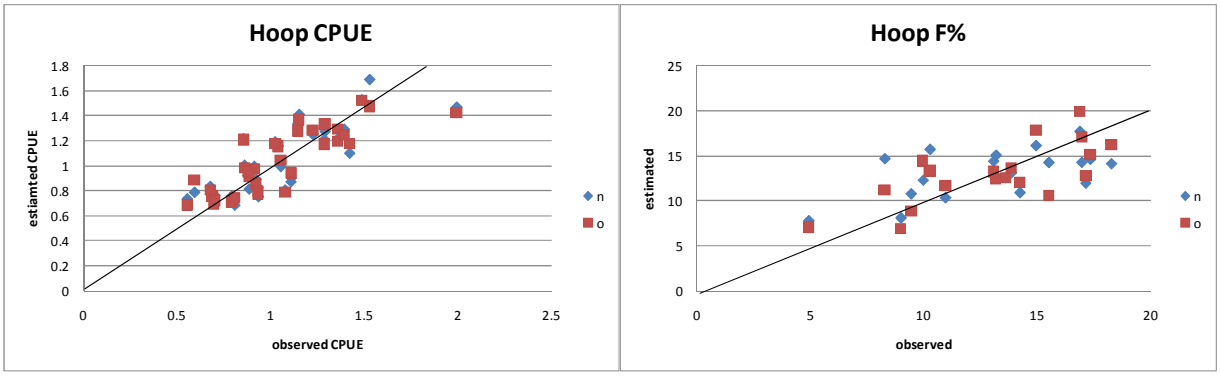


Figure 3b: Area 5+6 CPUE and F% “obs” versus “predicted” for both model variants.

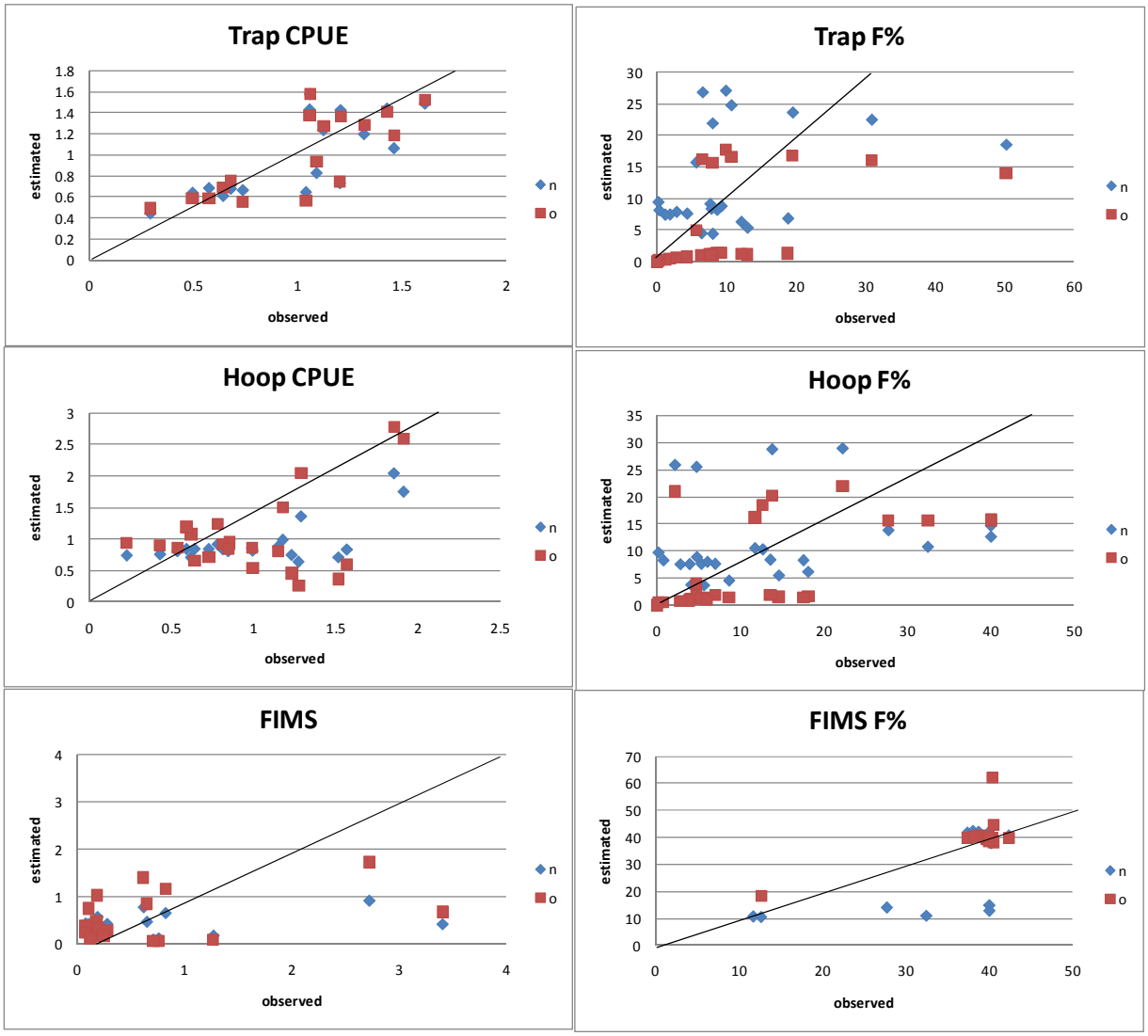


Figure 3c: Area 8 CPUE and F% “obs” versus “predicted” for both model variants.