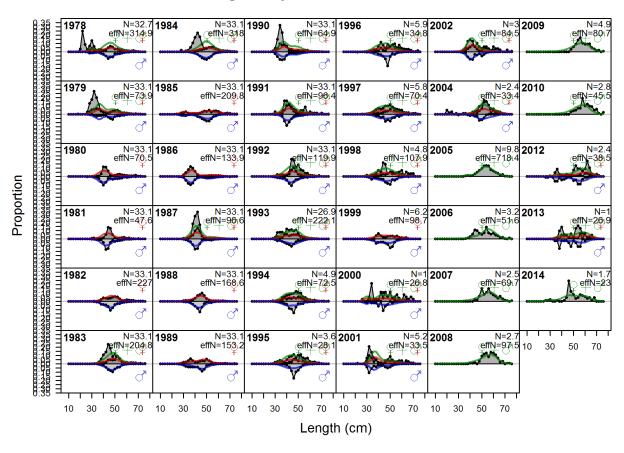
# r4ss Figure Examples

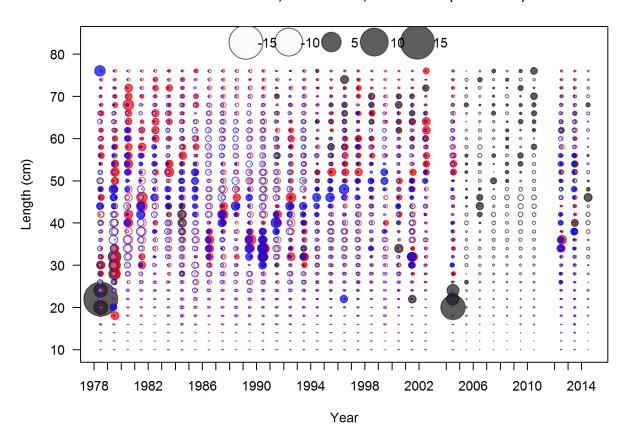
Melissa Monk July 26, 2016

#### length comps, whole catch, TrawlSouth

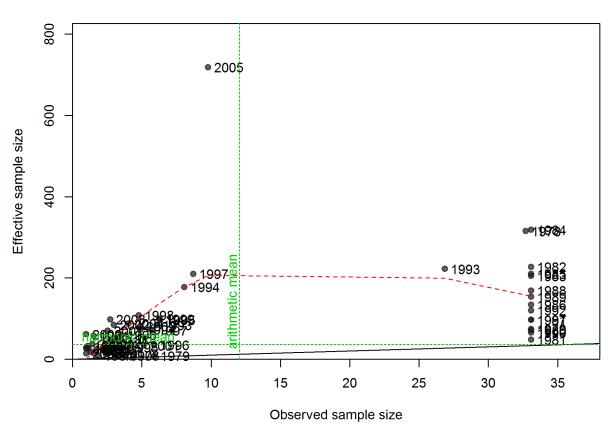


 $\label{eq:figure 1:length comps} Figure \ 1: \ length \ comps, \ whole \ catch, \ TrawlSouth \ {\tt fig:mod1\_1\_comp\_lenfit\_flt1mkt0}$ 

### Pearson residuals, whole catch, TrawlSouth (max=14.96)



# N-EffN comparison, length comps, whole catch, TrawlSouth



 $\label{eq:fig:mod1_3_comp_lenfit_sampsize} Figure \ 3: \ N\_EffN \ comparison, length \ comps, \ whole \ catch, \ TrawlSouth \ {\tt fig:mod1_3\_comp\_lenfit\_sampsize\_lenfit\_sampsize\_length}.$ 

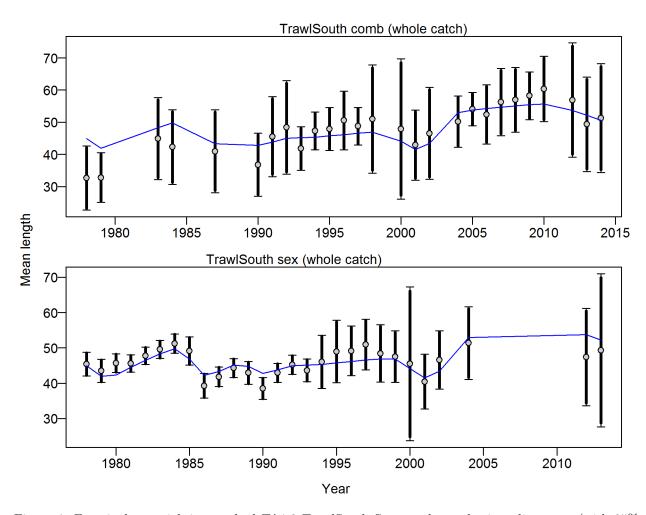


Figure 4: Francis data weighting method TA1.8 TrawlSouth Suggested sample size adjustment (with 95% interval) for len data from TrawlSouth:  $0.8988 \ (0.6085\_1.575)$  fig:mod1\_4\_comp\_lenfit\_data\_weighting\_TA1.8\_TrawlSouth

#### length comps, whole catch, HL

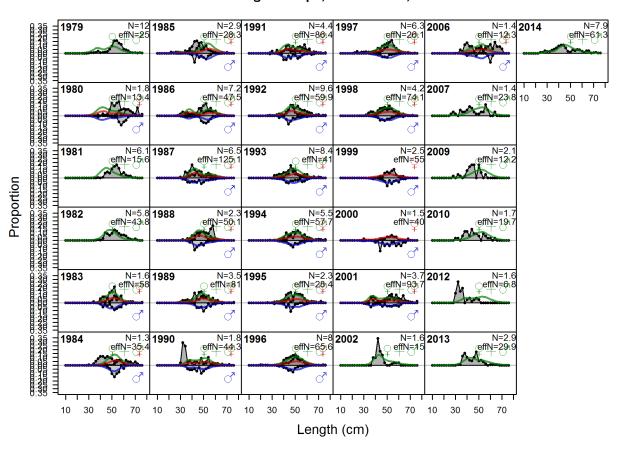


Figure 5: length comps, whole catch, HL  $^{fig:mod1\_5\_comp\_lenfit\_flt2mkt0}$ 

### Pearson residuals, whole catch, HL (max=3.74)

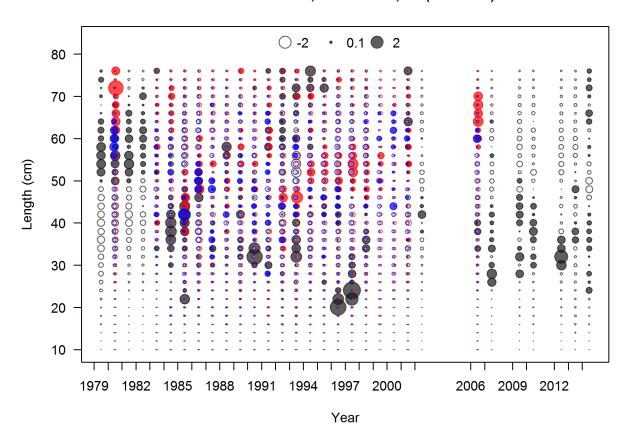
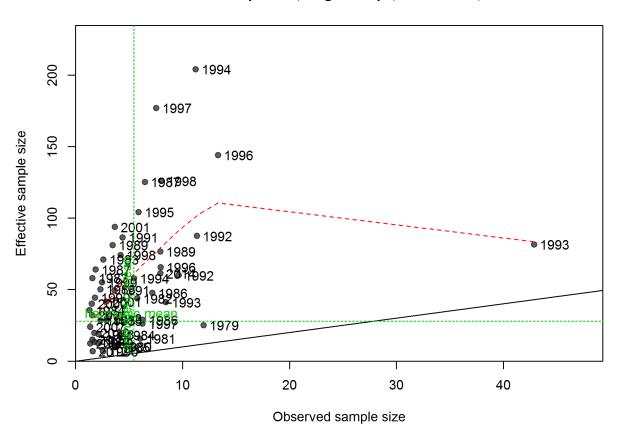


Figure 6: Pearson residuals, whole catch, HL (max=3.74) Closed bubbles are positive residuals (observed  $\geq$  expected) and open bubbles are negative residuals (observed < expected).

# N-EffN comparison, length comps, whole catch, HL



 $\label{eq:fig:mod1_7_comp_lenfit_sampsize_flt2} Figure \ 7: \ N\_EffN \ comparison, \ length \ comps, \ whole \ catch, \ HL\ {\tt fig:mod1_7\_comp\_lenfit\_sampsize\_flt2}$ 

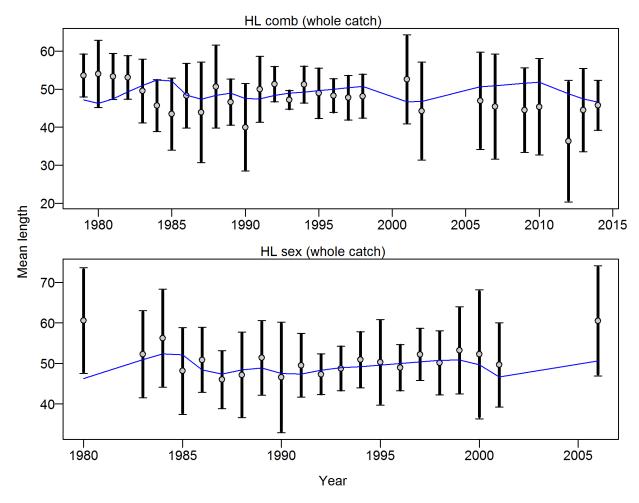


Figure 8: Francis data weighting method TA1.8 HL Suggested sample size adjustment (with 95% interval) for len data from HL:  $0.9385~(0.6907\_1.421)$  fig:modi\_8\_comp\_lenfit\_data\_weighting\_TA1.8\_HL

### length comps, whole catch, Setnet

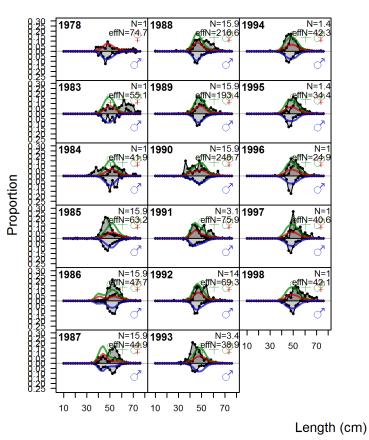


Figure 9: length comps, whole catch, Setnet  $^{\texttt{fig:mod1\_9\_comp\_lenfit\_flt3mkt0}}$ 

### Pearson residuals, whole catch, Setnet (max=6.22)

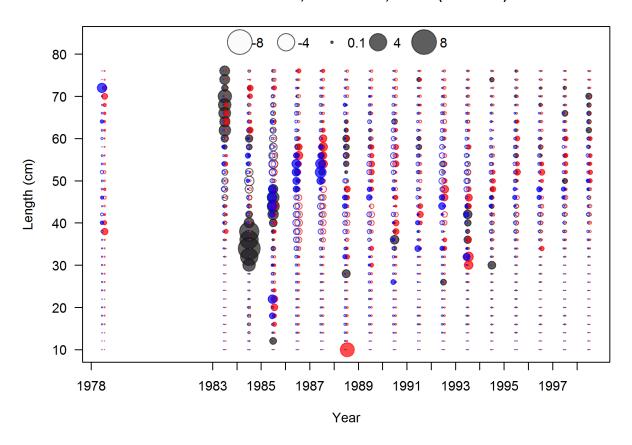


Figure 10: Pearson residuals, whole catch, Setnet (max=6.22) Closed bubbles are positive residuals (observed > expected) and open bubbles are negative residuals (observed < expected). fig:mod1\_10\_comp\_lenfit\_residsf1t3mkt0

# Data by type and year

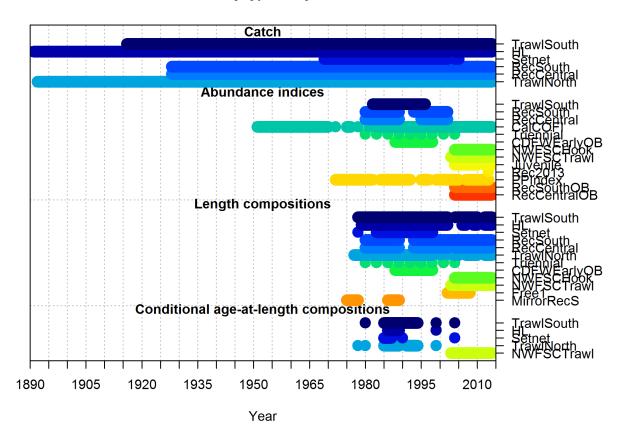


Figure 11: 1-Summary of data sources used in the base case assessment. fig:data\_plot

# Data by type and year

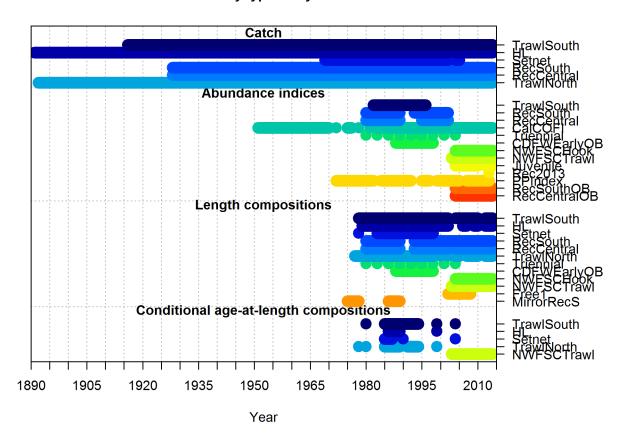


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# Data by type and year

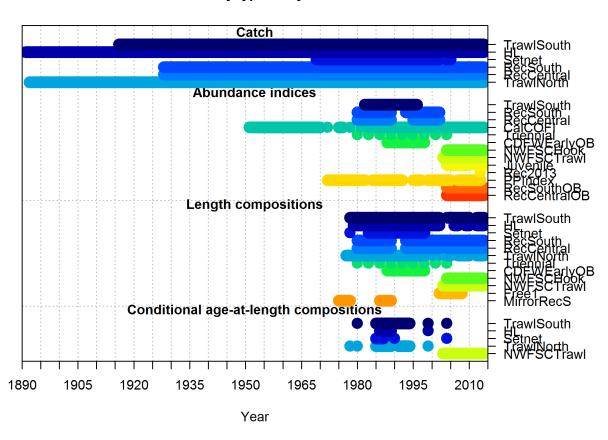


Figure 12: 3-Summary of data sources used in the base case assessment. fig:data\_plot