Paper Plots V1

Brett Stacy

2024-11-25

Introduction

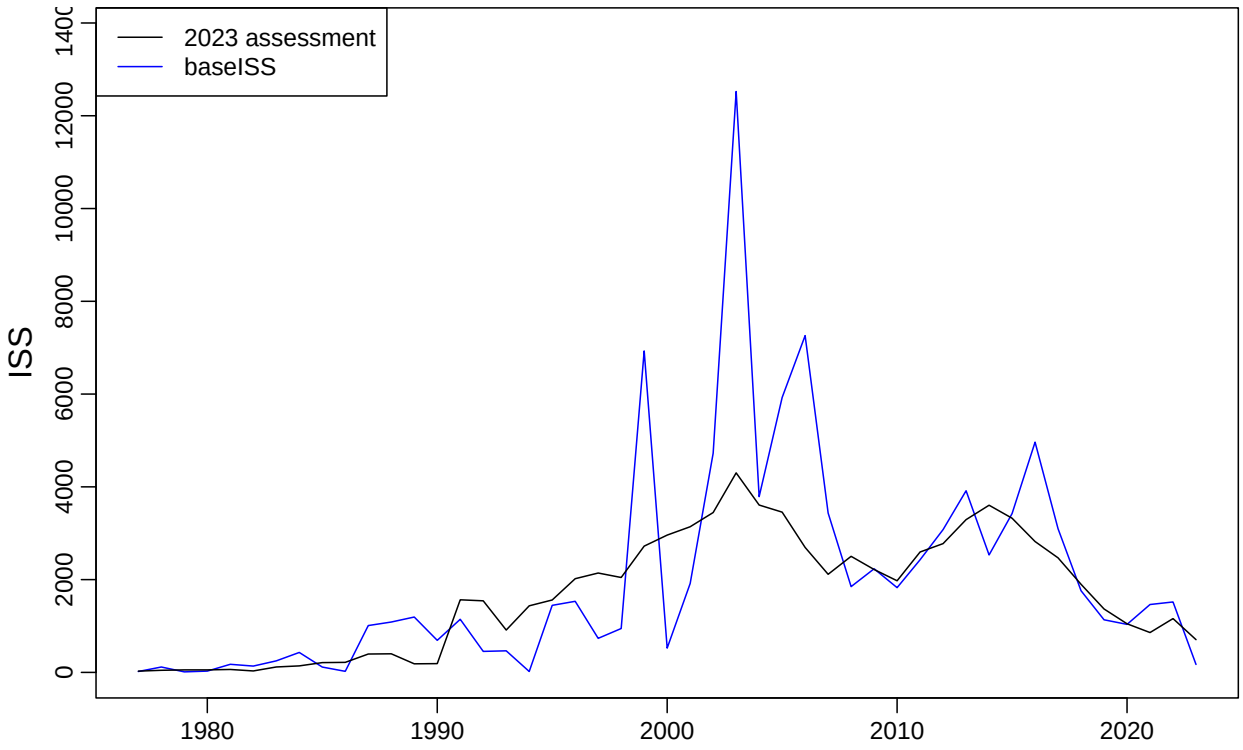
Plots for paper:

1. Time series of new ISS vs old. Accompanied by number of hauls, nominal sample size, and possibly RSS boxplots. RSS boxplots may help justify focusing in on 20 sample size meidan for later plots to get an apples to apples, granular test of impact of sample size and expansion complexity.
2. ISS full, ISS without expansion, ISS without sampling strata, ISS without either.
3. 3x3 grid: sample size 10, 20, 30 fixed X expansion none, haul only, haul+month. With sampling strata.

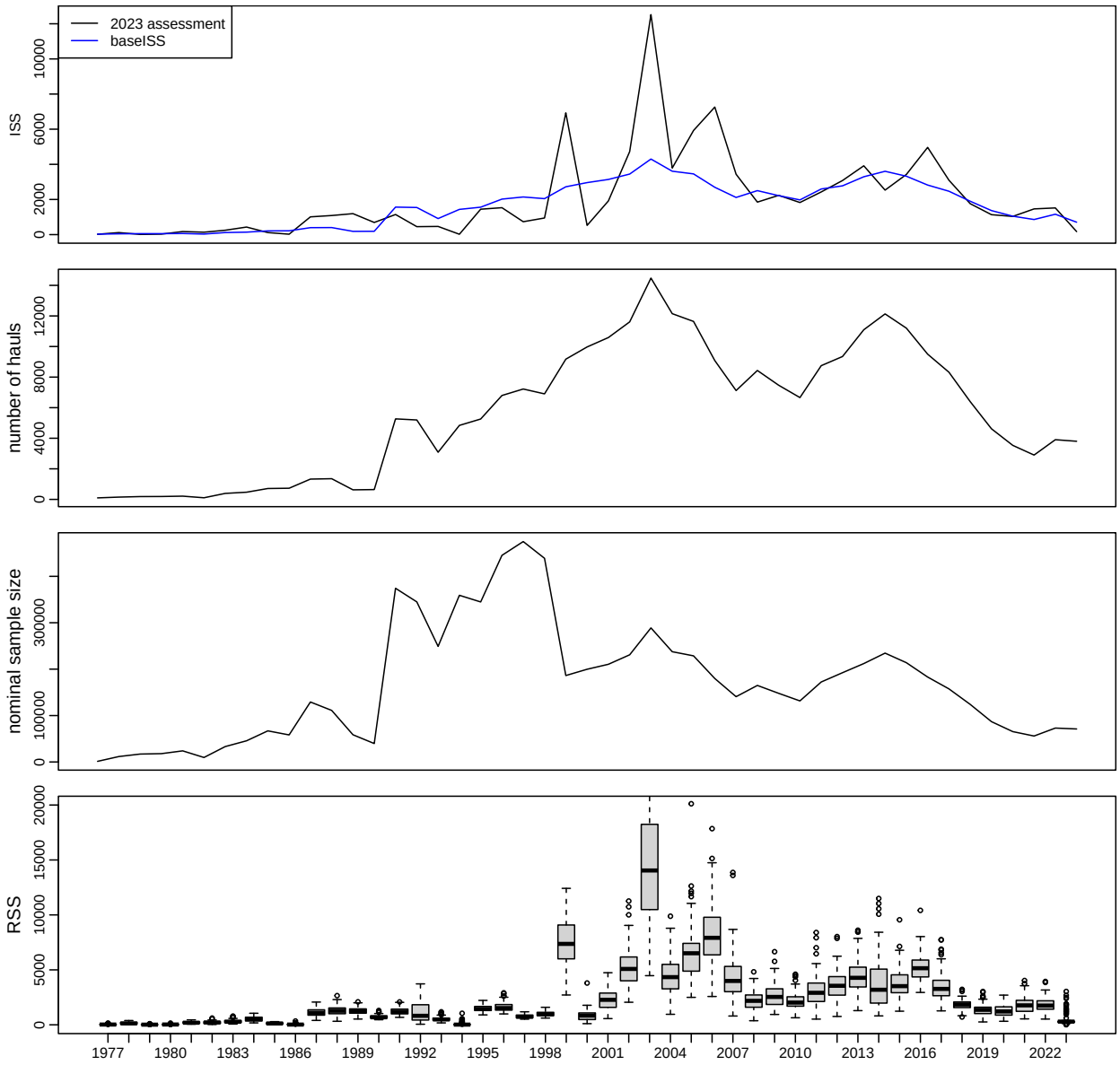
3.supp.1: same as above but without sampling strata. 3.supp.2: same as above but without bootstrapping trip. 3.supp.3: same as above but without either.

Plot 1.1

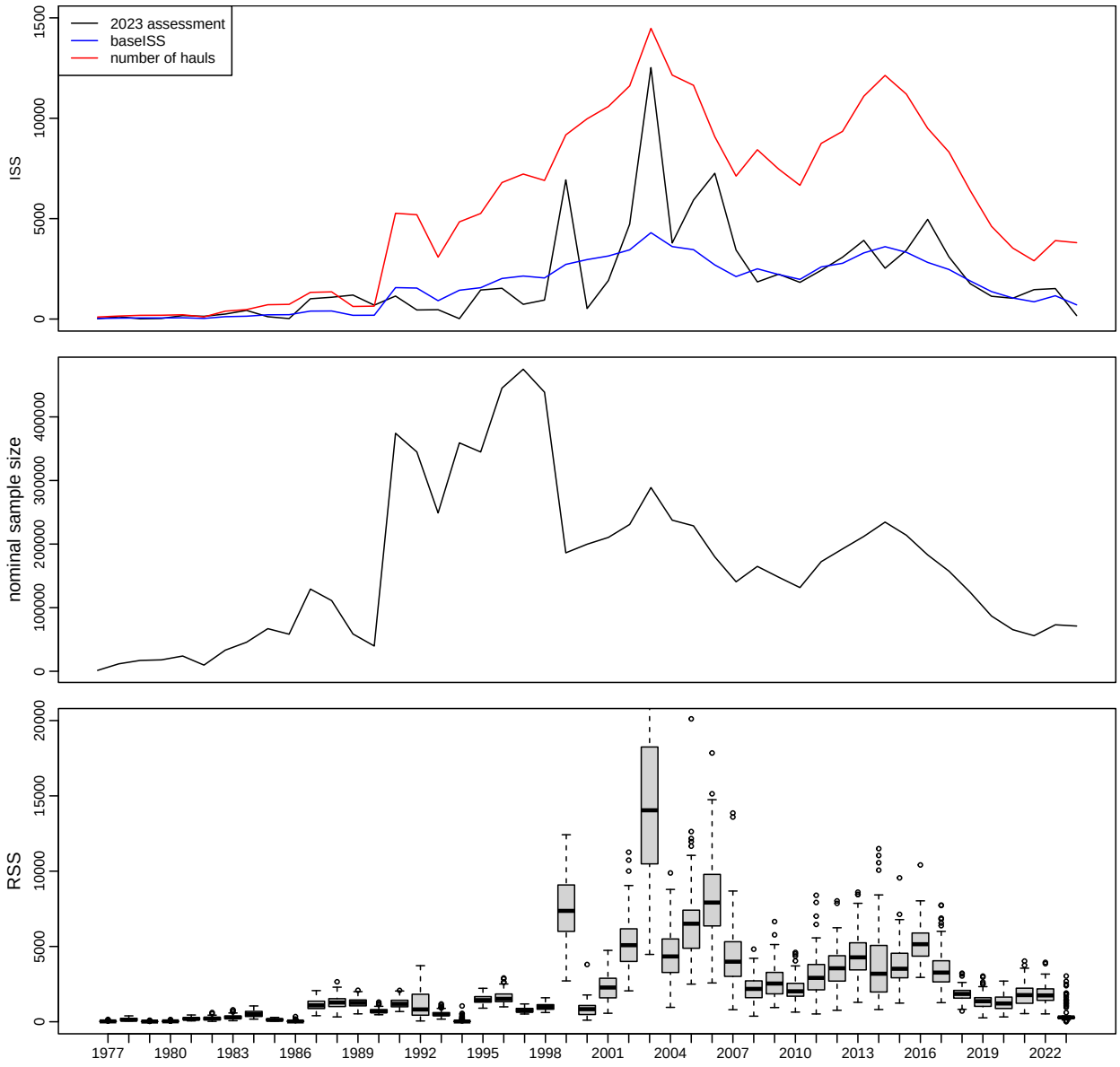
baseISS with assessment ISS



All together 4 panel



All together 3 panel



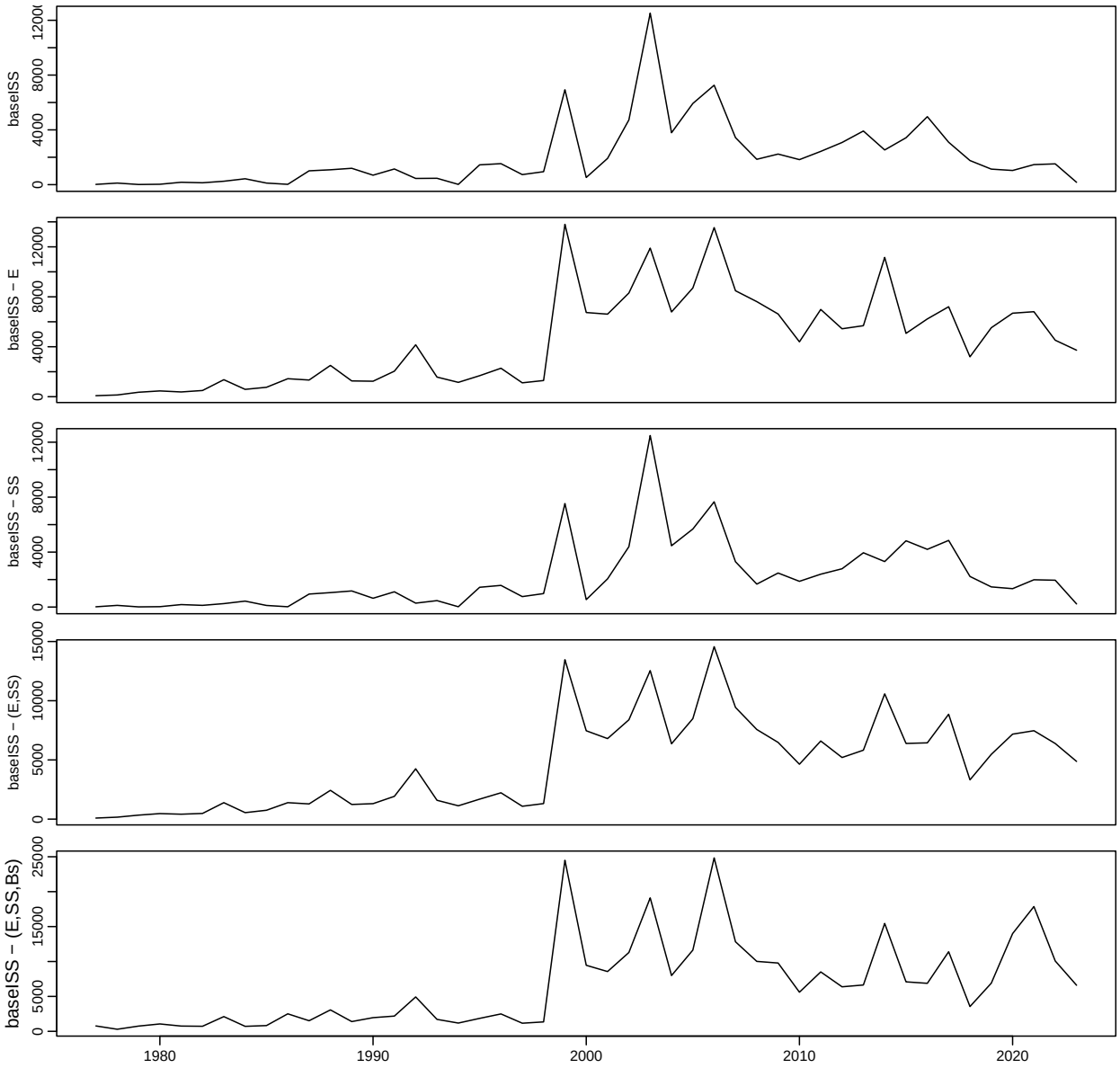
Inspect R-squared Fit models to number of hauls.

Plot 2.1

Deconstruct the contributors to baseISS

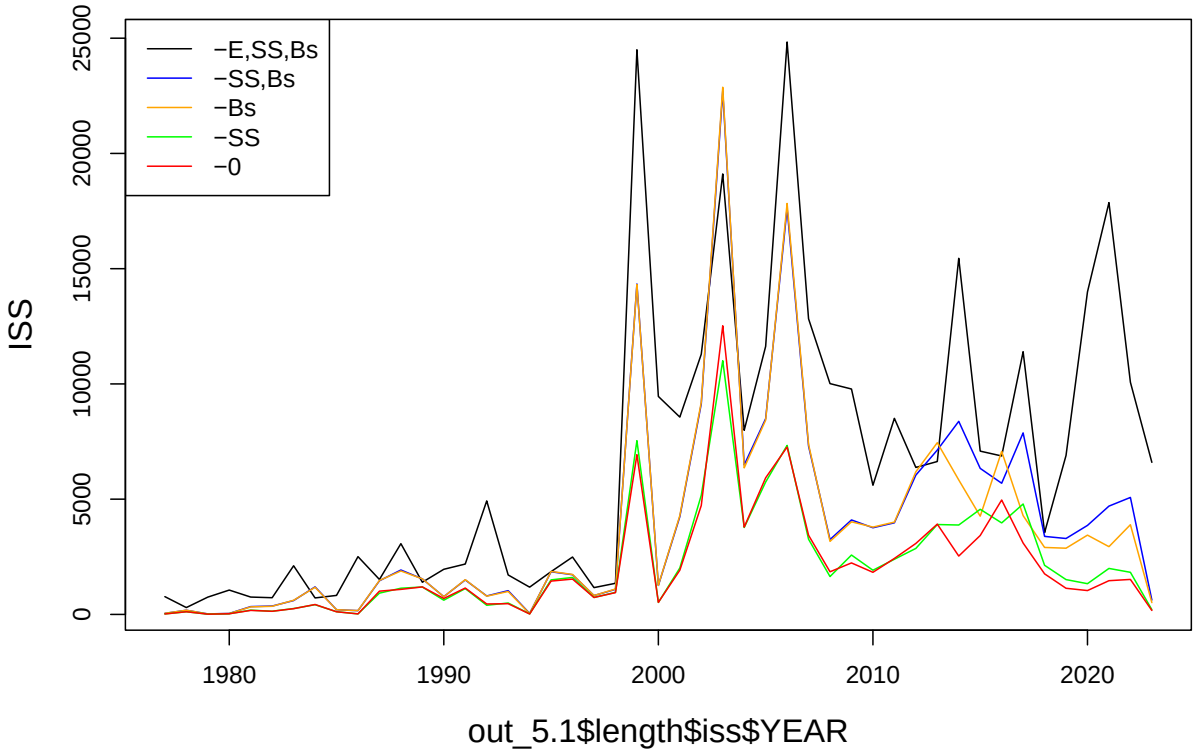
All together 1

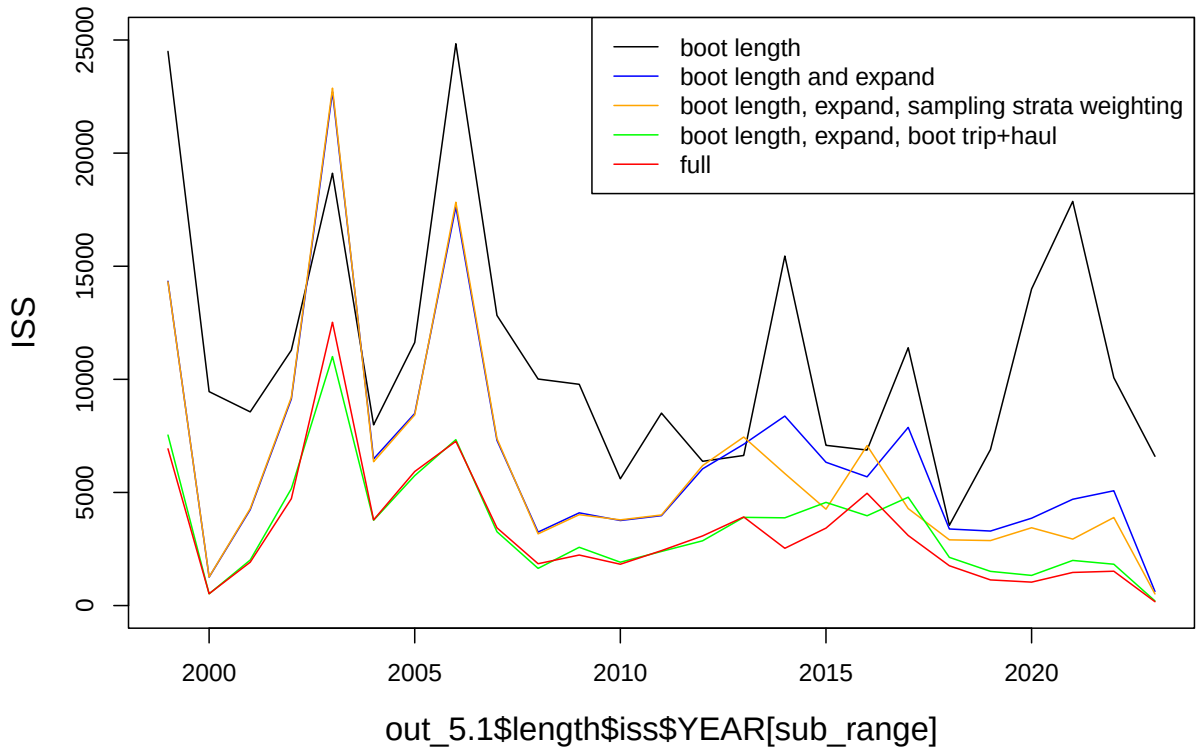
Subtracting things from baseISS



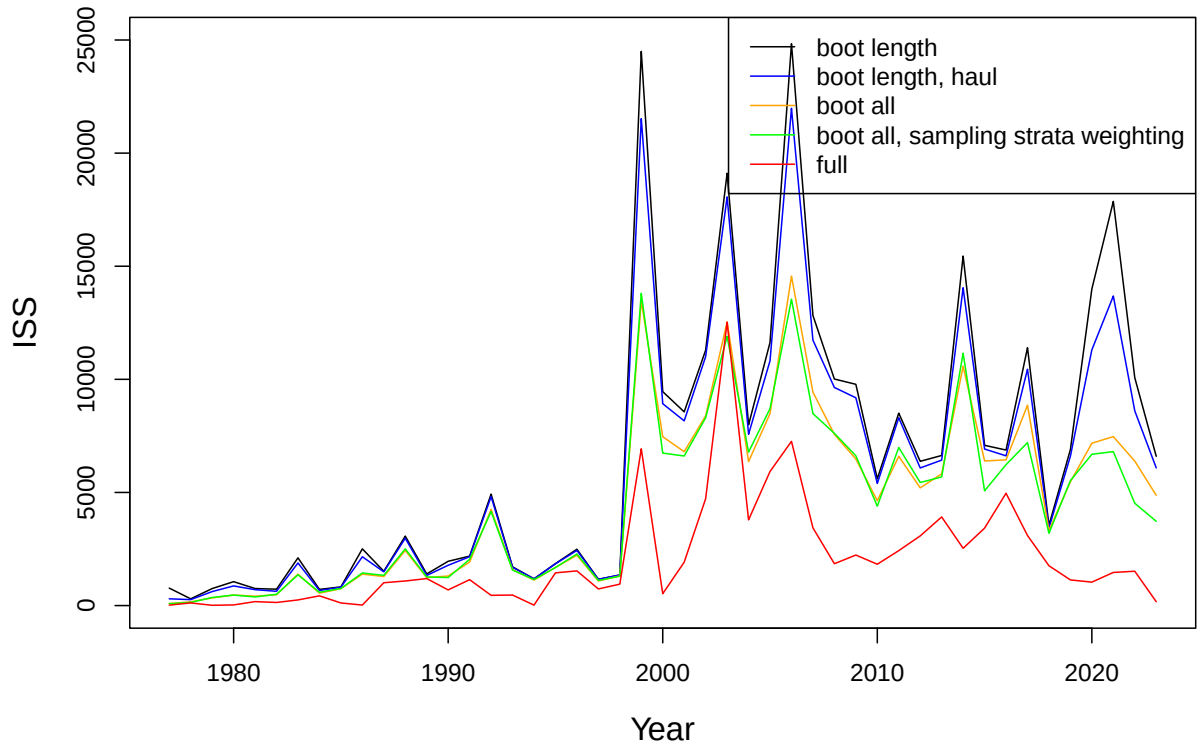
All together 2

Adding things to baseISS

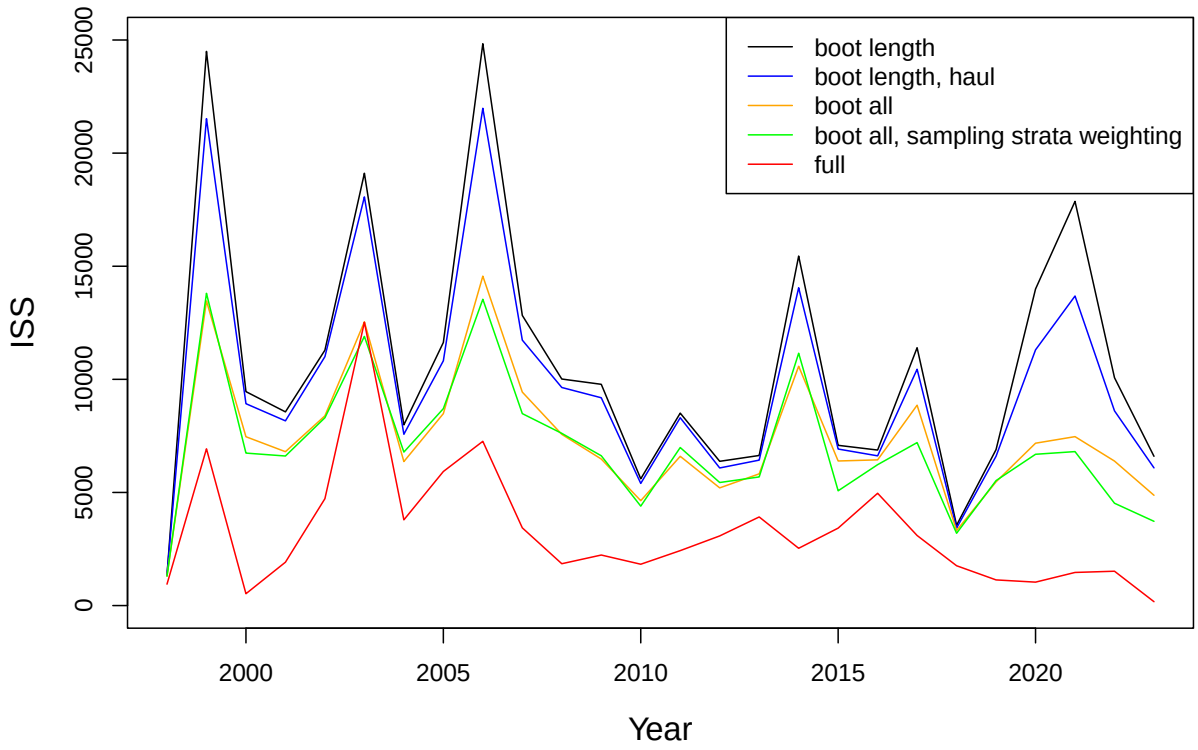

−E,SS,Bs
−SS,Bs
−Bs
−SS
−0
ISS
0
5000
10000
15000
20000
25000
1980
1990
2000
2010
2020
out_5.1$length$iss$YEAR


boot length
boot length and expand
boot length, expand, sampling strata weighting
boot length, expand, boot trip+haul
full
ISS
0
5000
10000
15000
20000
25000
2000
2005
2010
2015
2020
out_5.1$length$iss$YEAR[sub_range]

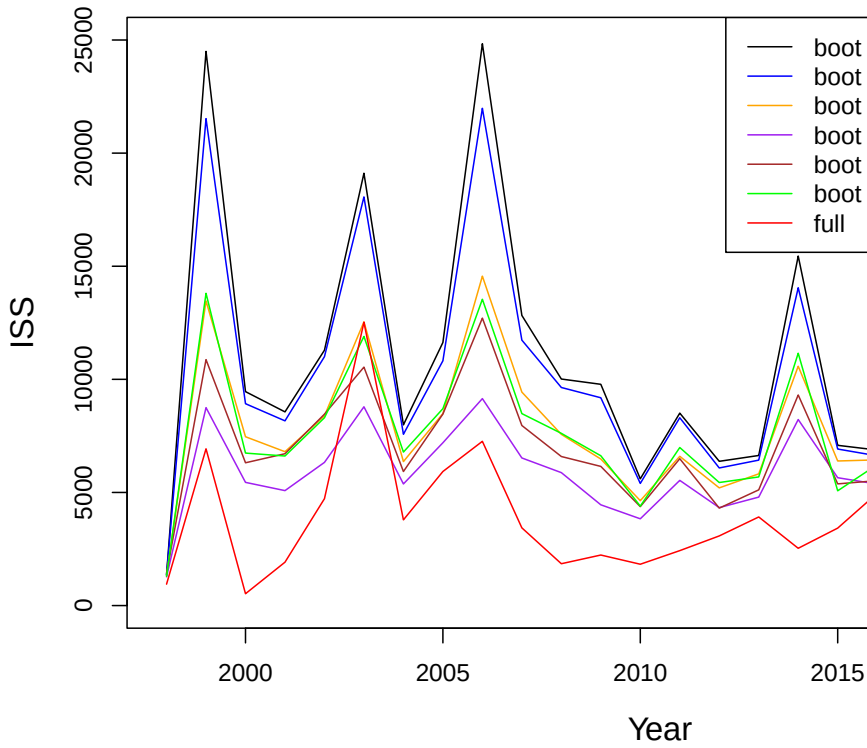
sub range 1



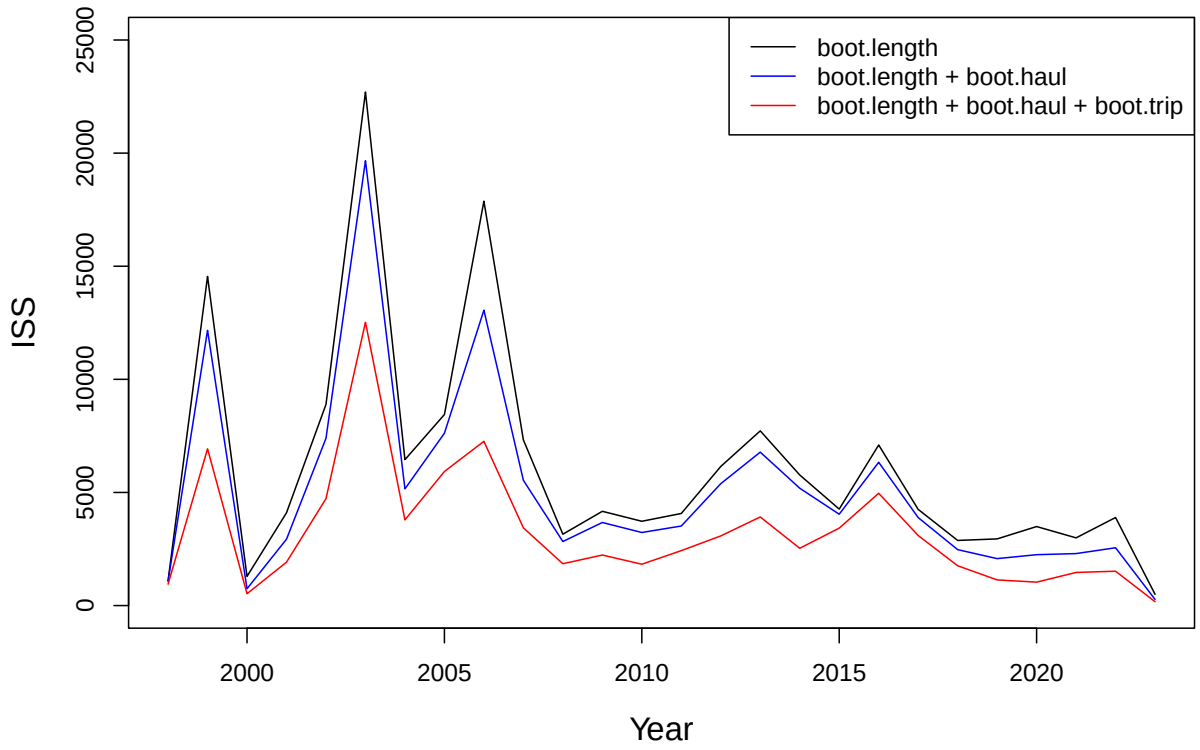
reorder long



reorder short



reorder short with half trips and half hauls



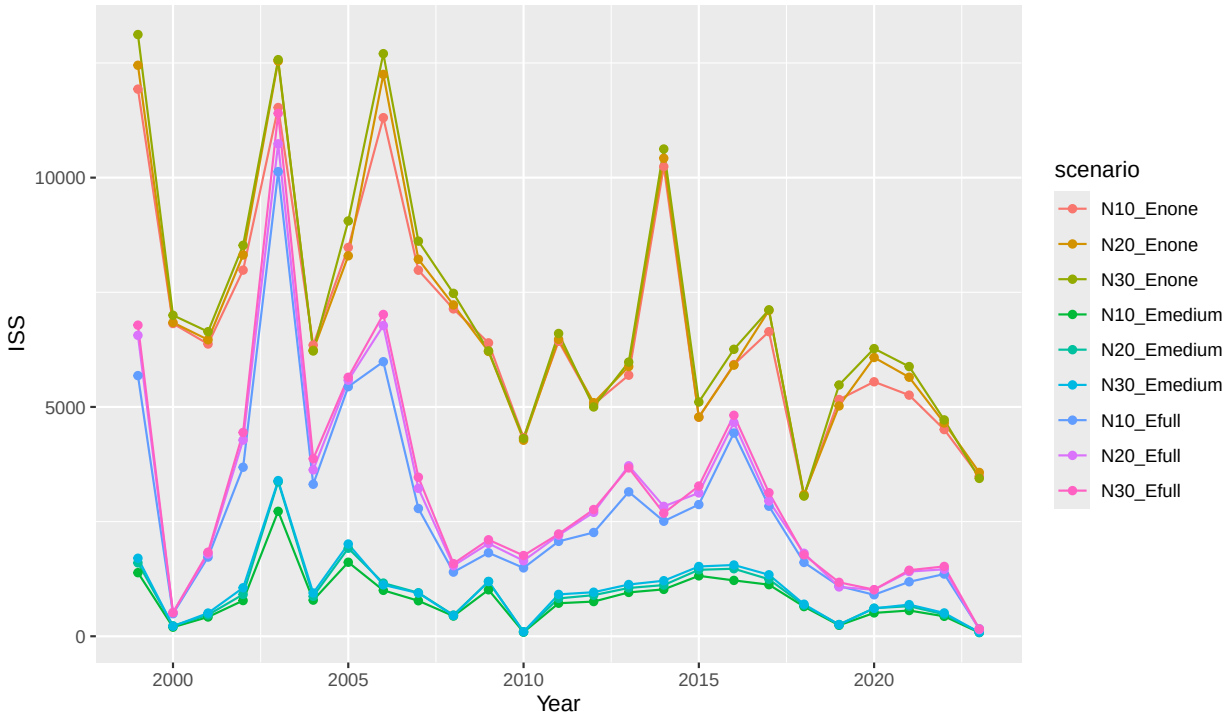
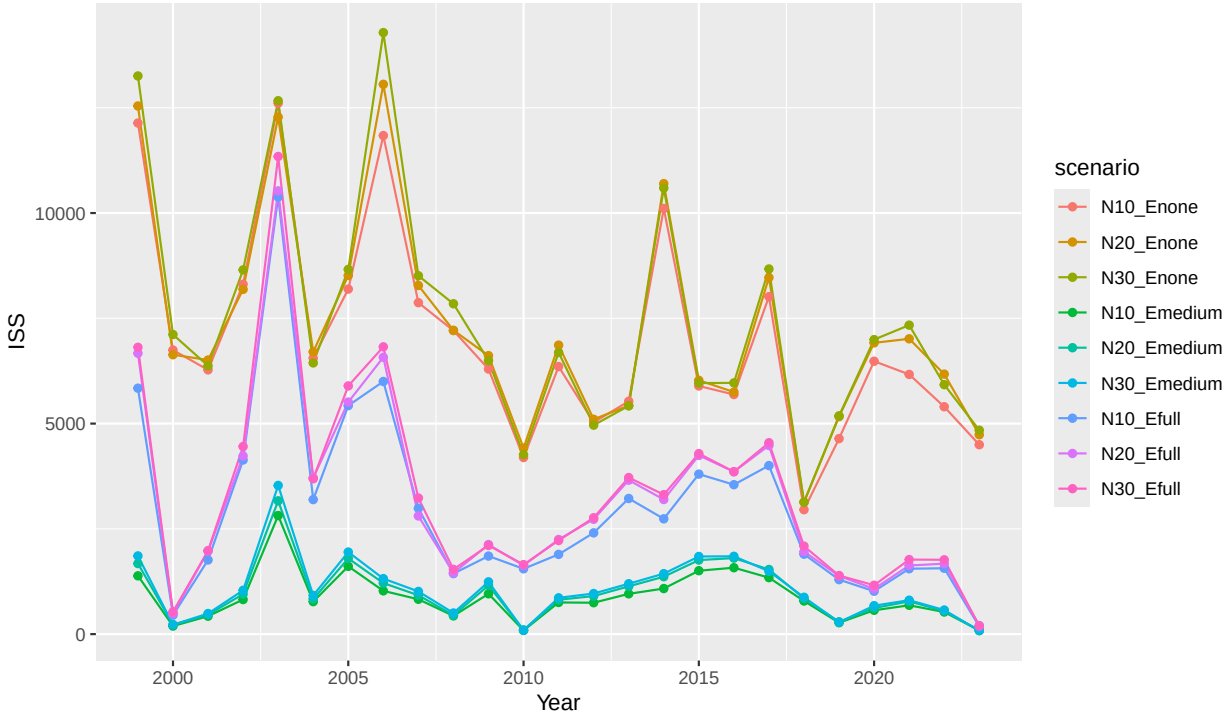
reorder short 2

Plot 3.1

3x3 grid.

Data

With sampling strata



Without sampling strata