Survey evaluation

Summary

The SSC selected model from December 2019 was 16.2. The following are draft results of simply updating anticipated 2020 catches over three cases:
1. No AVO or other survey data
2. A 2020 AVO data point that is equal to the lowest on record (from Sail drones)
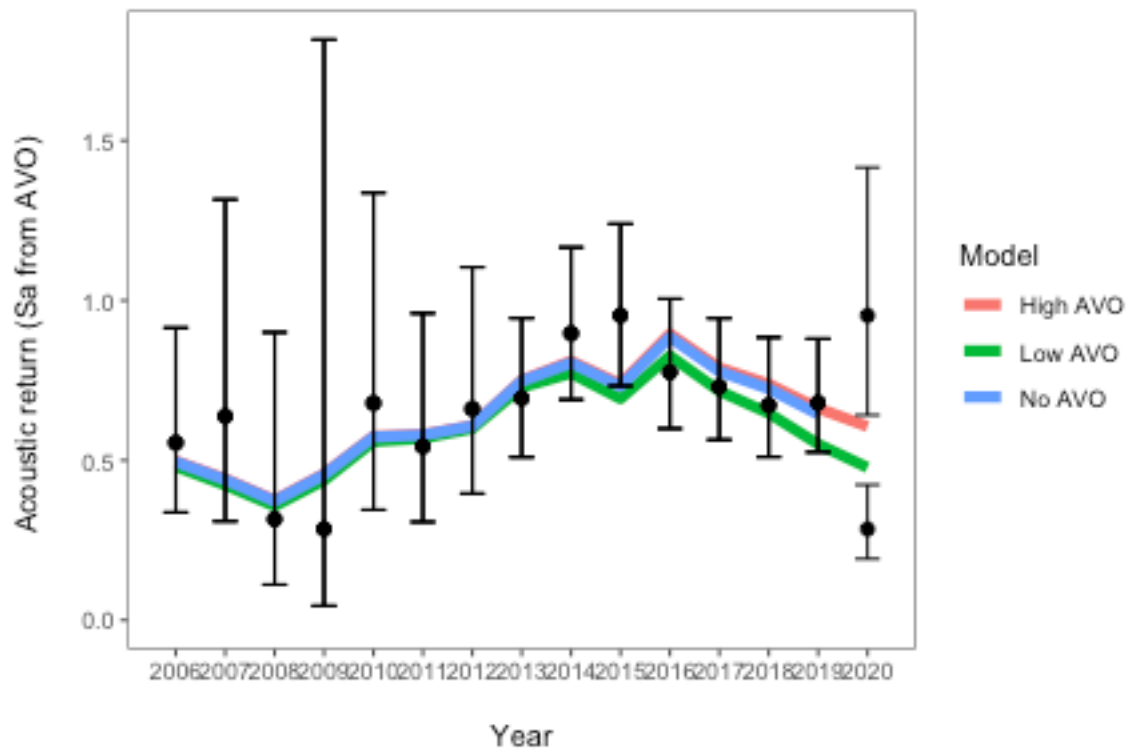3. A 2020 AVO data point that is equal to the highest on record (from Sail drones)

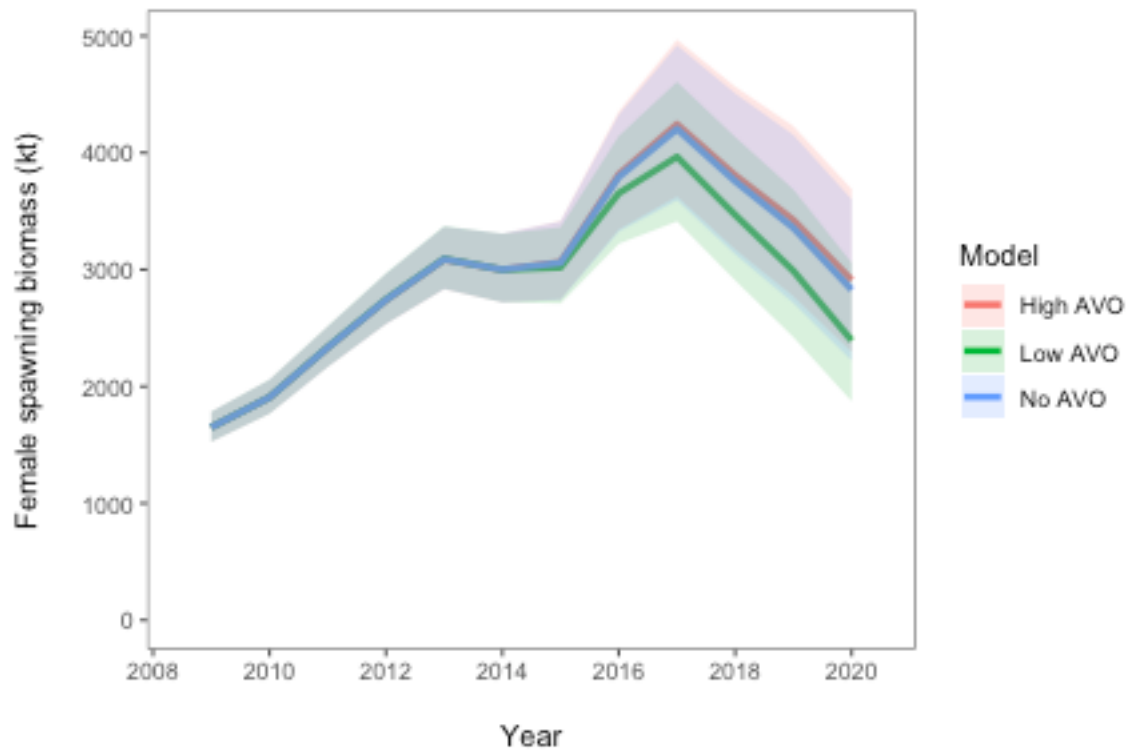Figure 1: plot of chunk fig1

The end
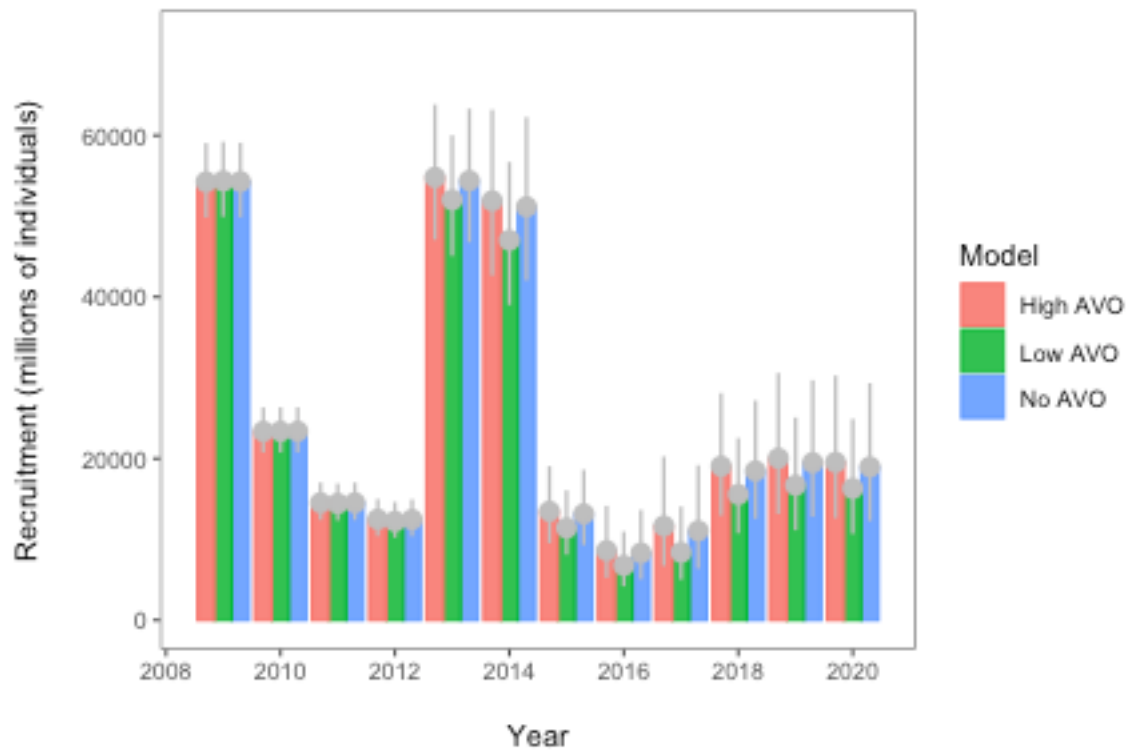
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Figure 2: plot of chunk fig2

Figure 3: plot of chunk fig3

Table 1: Summary of model 16.2 results and the stock condition for EBS pollock. Biomass units are thousands of t.

Component	No AVO	Low AVO	High AVO
B_{2021}	2,500	2,000	2,600
$CV_{B_{2021}}$	0.13	0.14	0.13
B_{MSY}	2,181	2,119	2,194
$CV_{B_{MSY}}$	0.22	0.22	0.23
B_{2021}/B_{MSY}	113%	93%	116%
B_0	5,721	5,567	5,752
$B_{35\%}$	2,168	2,123	2,177
SPR rate at F_{MSY}	28%	28%	28%
Steepness	0.66	0.67	0.66
Est. $B_{2020}/B_{2020,nofishing}$	0.58	0.53	0.59
B_{2020}/B_{MSY}	130%	113%	133%

Table 2: Summary results of Tier 1 2020 yield projections for EBS pollock.

Component	No AVO	Low AVO	High AVO
2021 fishable biomass (GM)	6,838,000	5,618,000	7,073,000
Equilibrium fishable biomass at MSY	6,018,000	6,236,000	5,983,000
MSY R (HM)	0.367	0.347	0.37
2021 Tier 1 ABC	2,509,000	1,814,000	2,620,000
2021 Tier 1 F_{OFL}	0.421	0.395	0.426
2021 Tier 1 OFL	2,880,000	2,070,000	3,011,000
MSY R (HM)	0.312	0.295	0.314
Recommended ABC	1,381,000	872,000	1,492,000