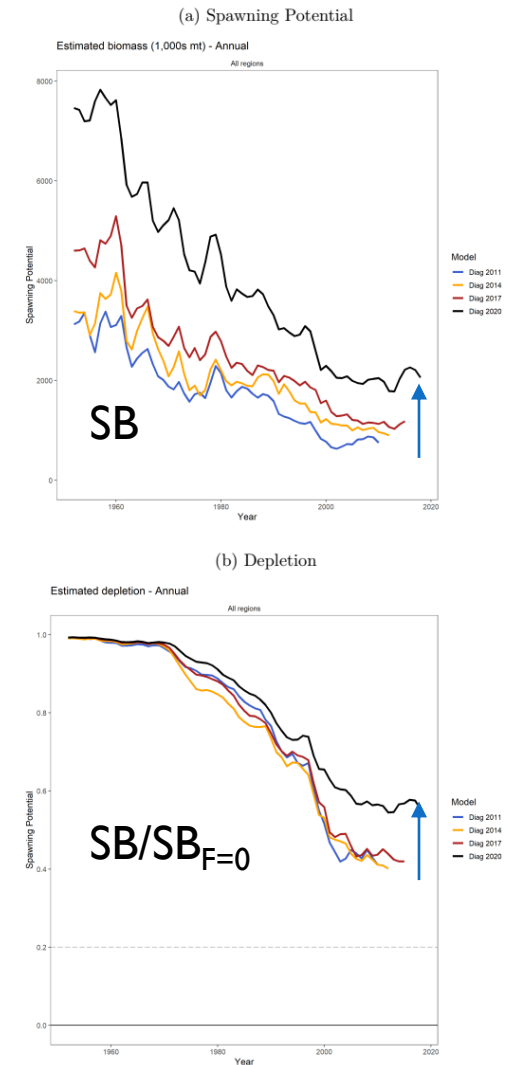


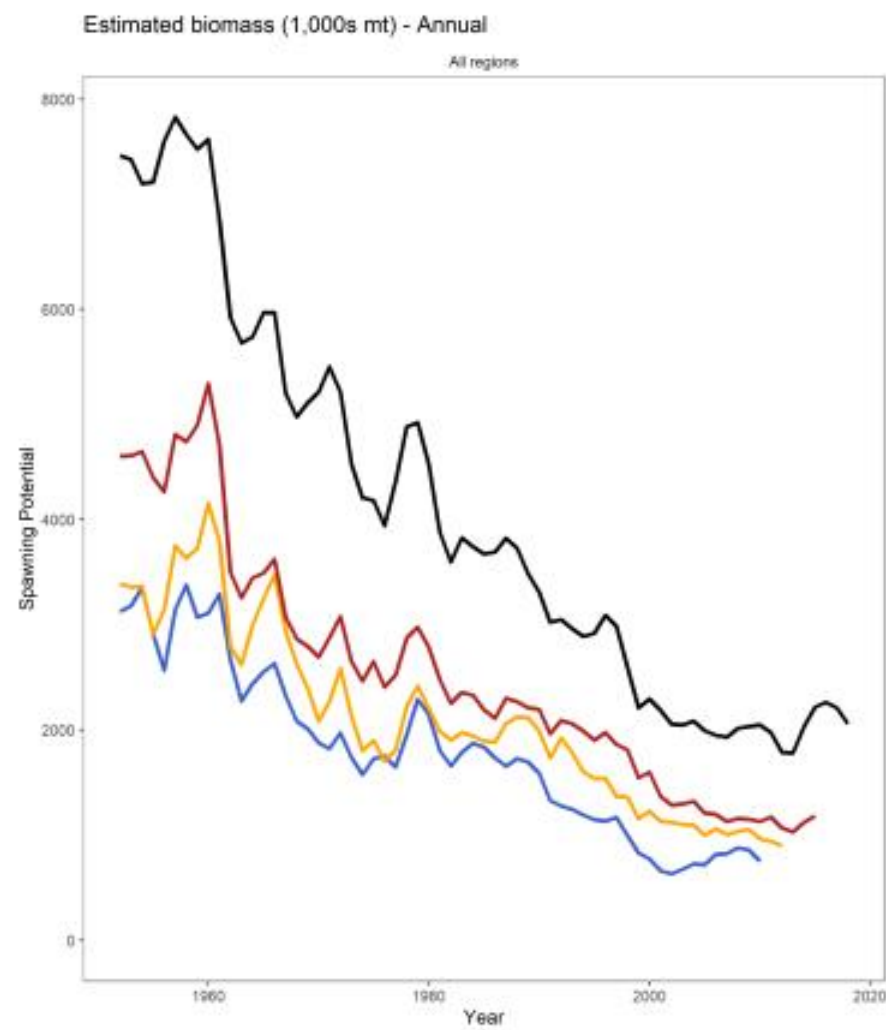
WCPO YELLOWFIN TUNA ASSESSMENT PEER REVIEW NOUMEA, 7-13 SEPT, 2022

Background

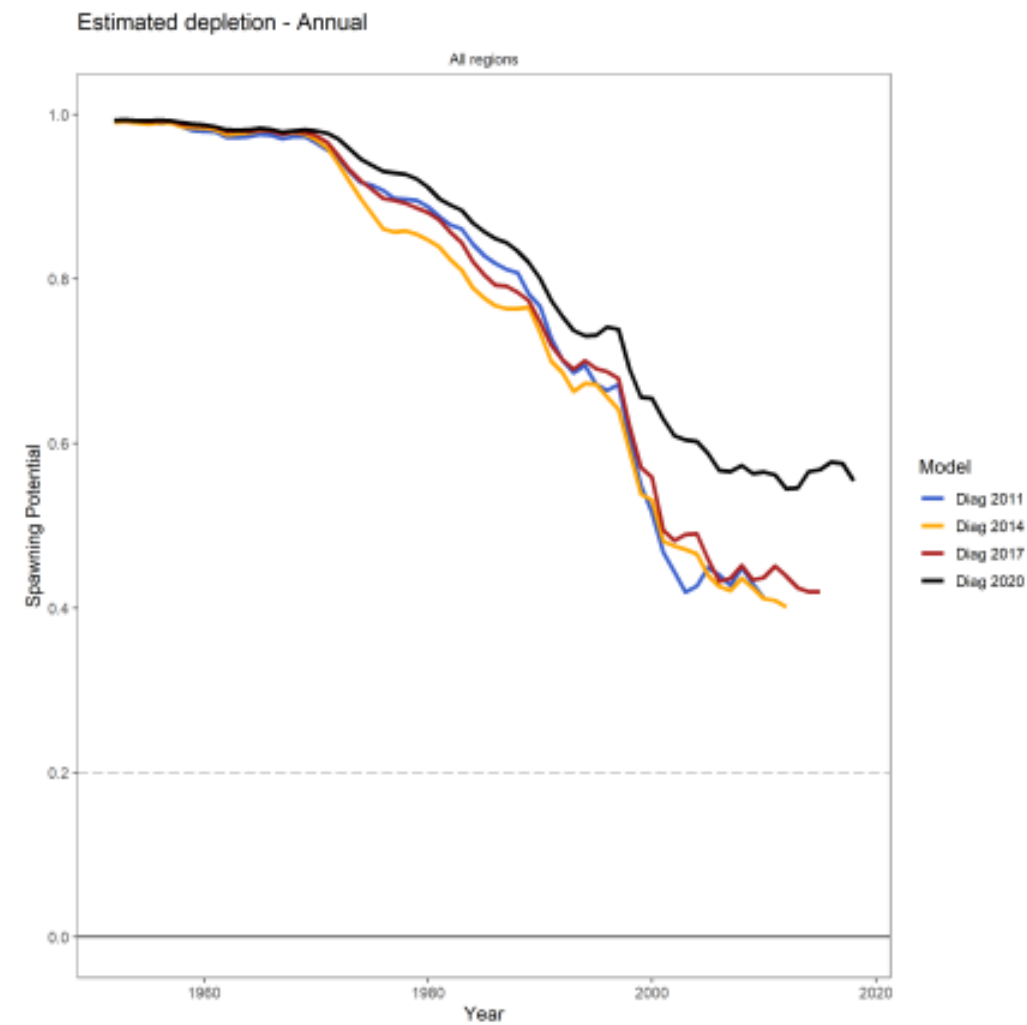
- Blah blah blah



(a) Spawning Potential



(b) Depletion



DYNAMIC STOCK STATUS

$$\text{Depletion (Stock status)} = \text{SB}_{\text{recent}} / \text{SB}_{\text{F=0}}$$

$\text{SB}_{\text{recent}}$ averaged over last 4 years (e.g. 2014-2018) Spawning biomass

$\text{SB}_{\text{F=0}}$ averaged over recent 10 years (e.g. 2008-2017) Unfished biomass (dynamic)

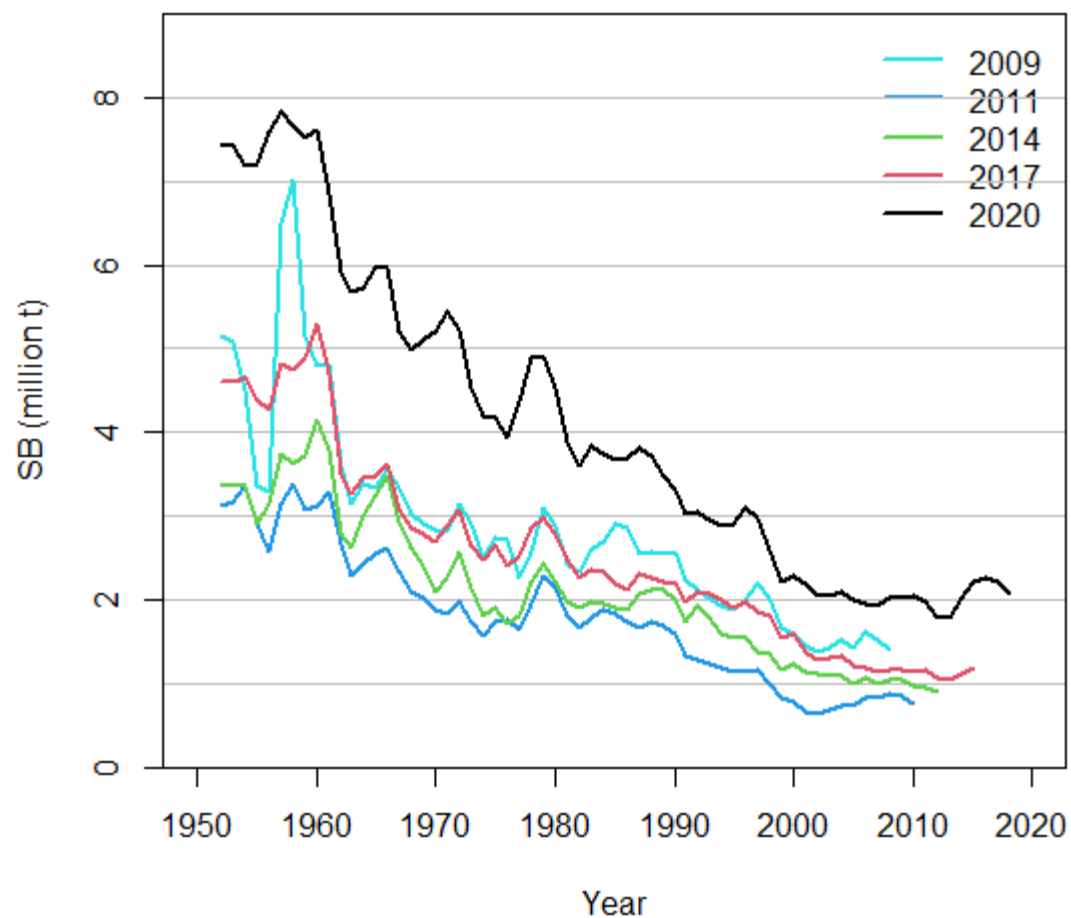
Averaged depletion: applied to the median of the uncertainty grid for management

Instantaneous (dynamic) depletion: traditionally plotted for the diagnostic cases

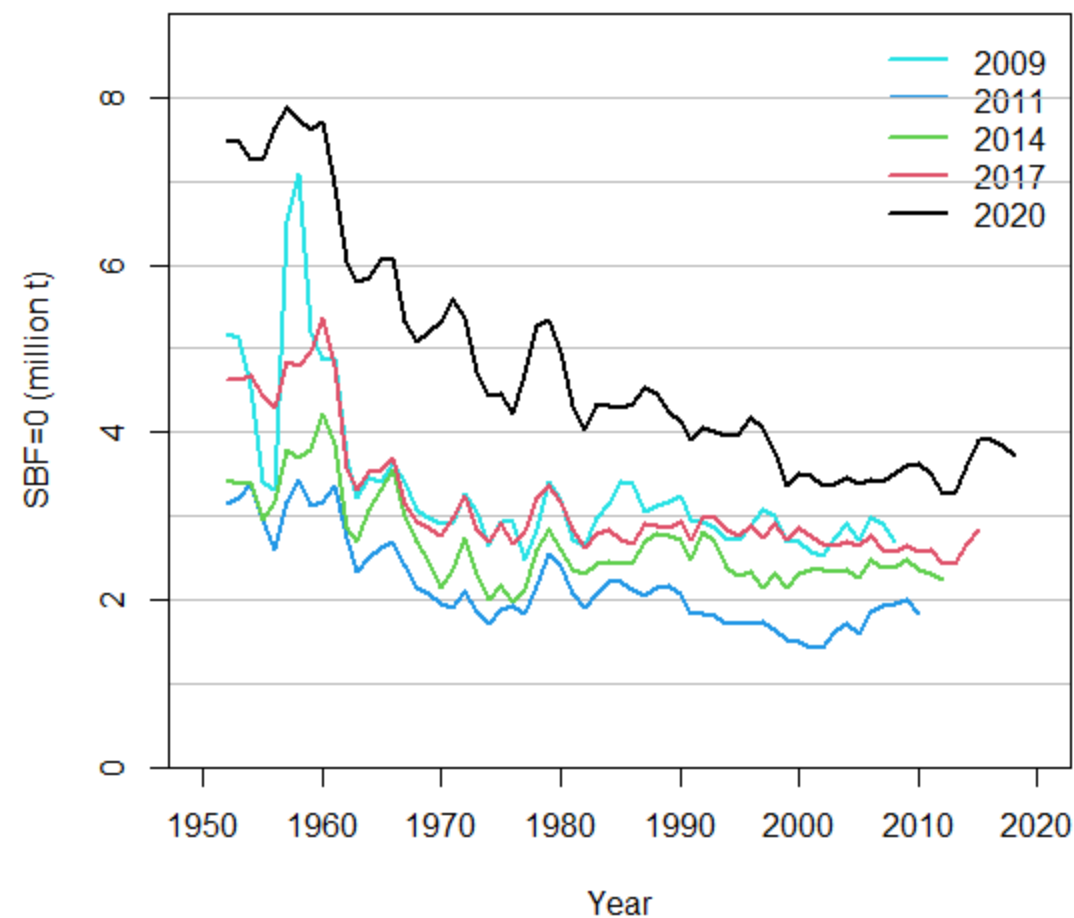
Why? Historical precedent

EXPLOITED VS UNEXPLOITED

Spawning Biomass

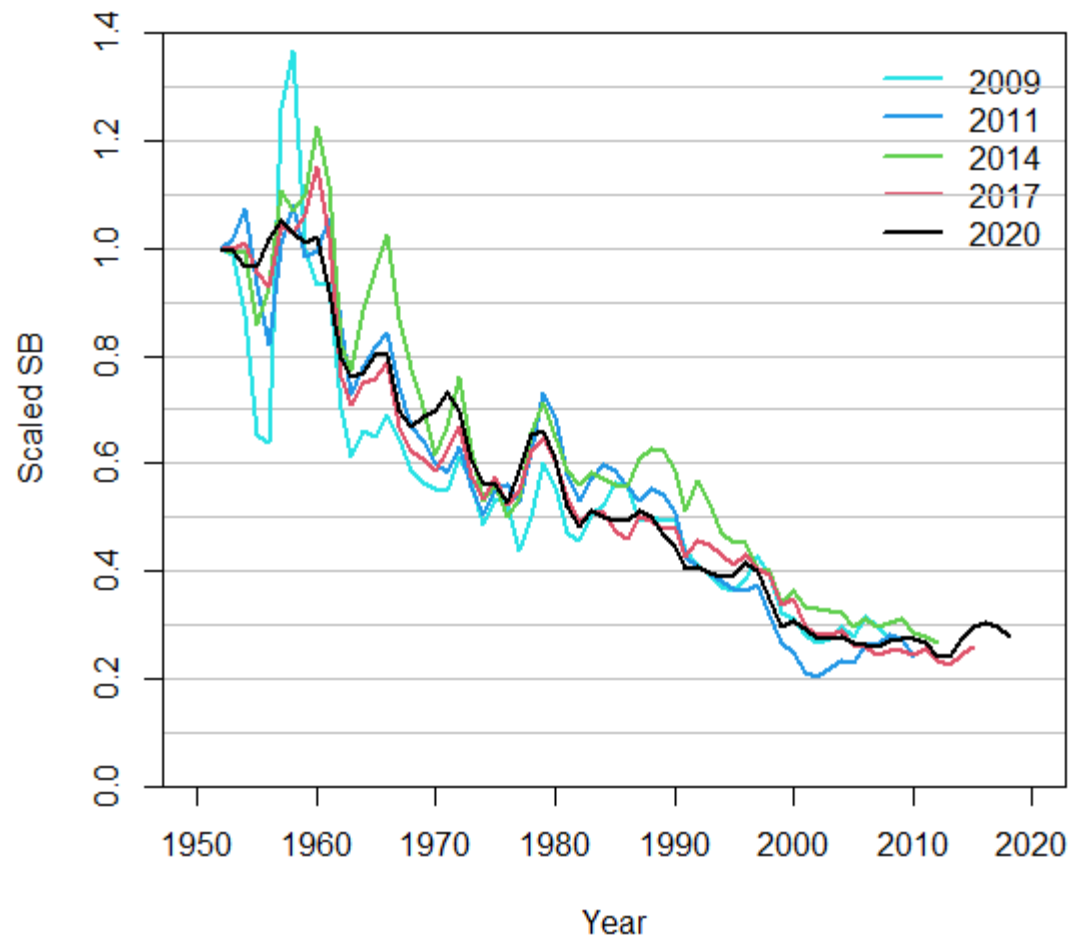


Unfished Biomass

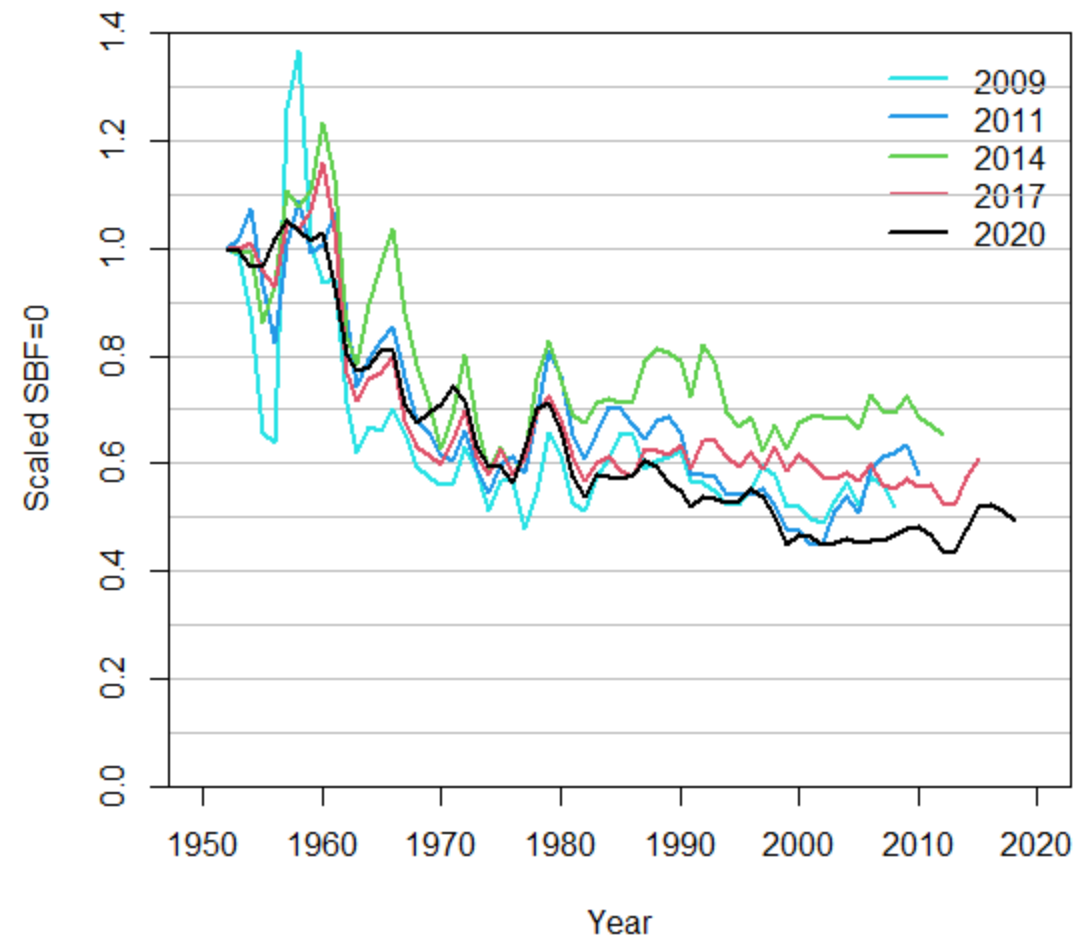


EXPLOITED VS UNEXPLOITED (NORMALISED TO 1952)

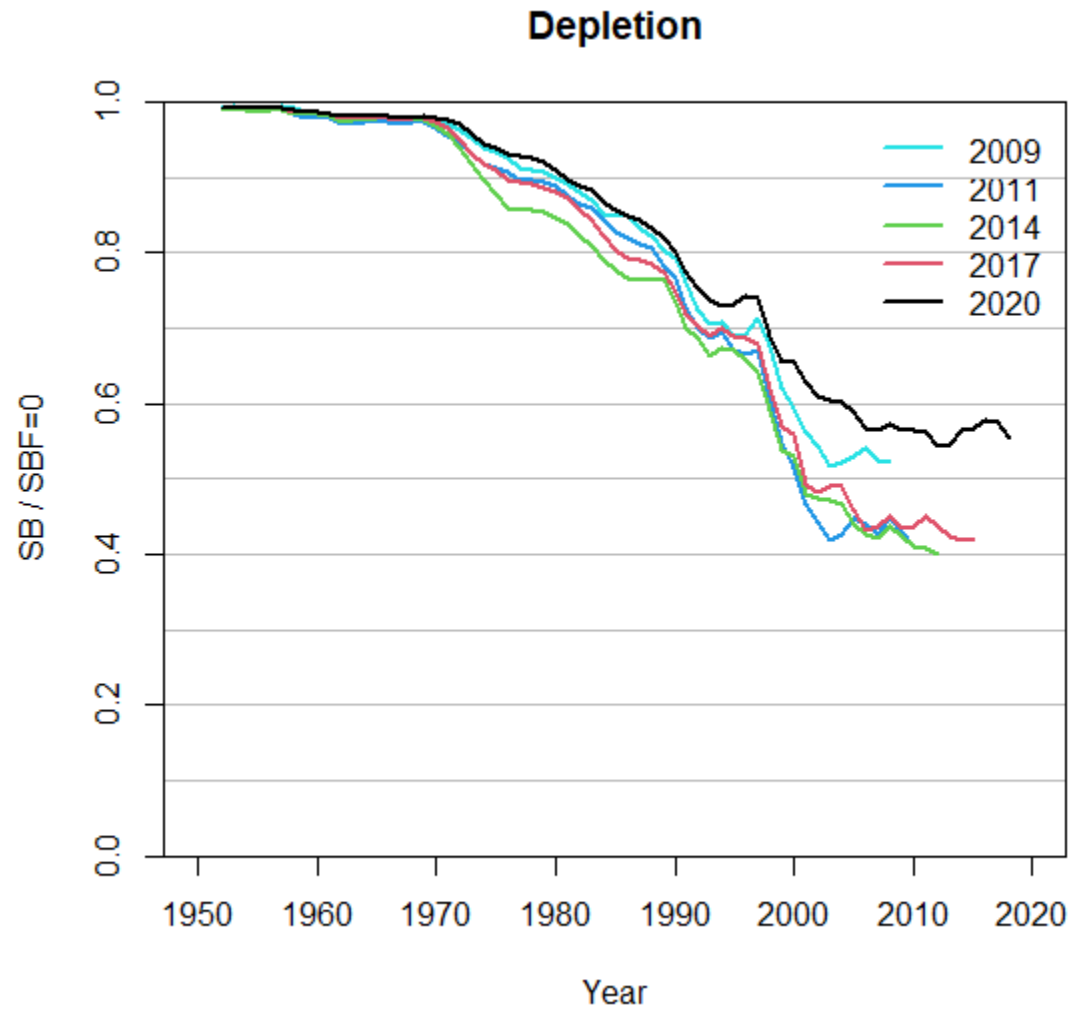
Relative Spawning Biomass



Relative Unfished Biomass

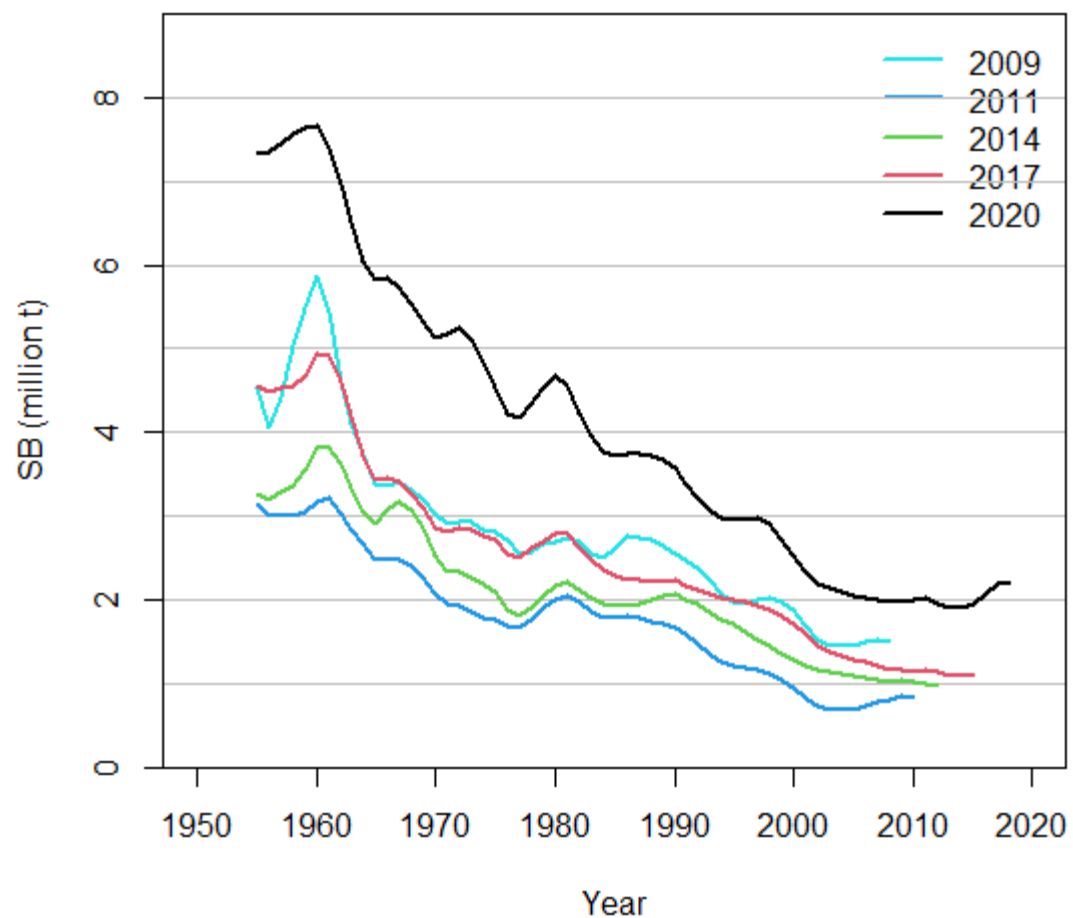


STOCK STATUS (ASSESSMENTS 2009-2020, INSTANTANEOUS)

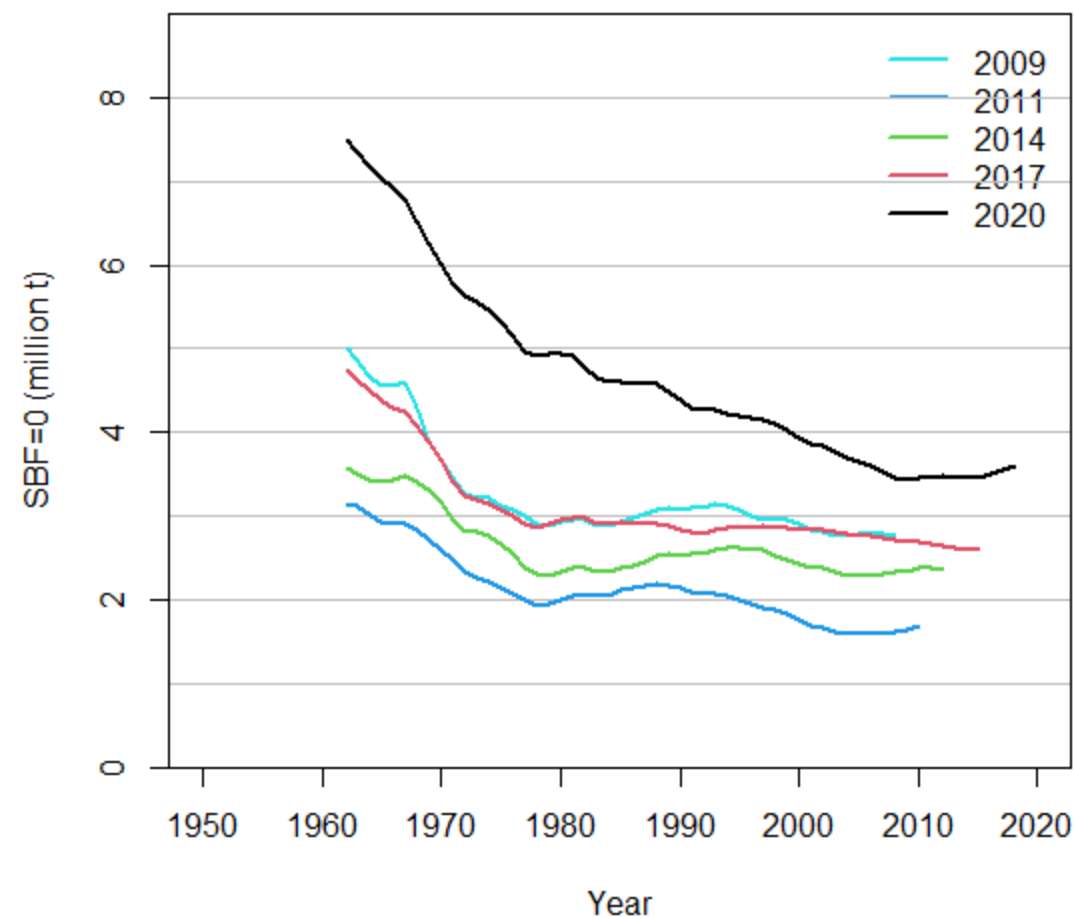


EXPLOITED VS UNEXPLOITED (AVERAGED)

Spawning Biomass (recent)

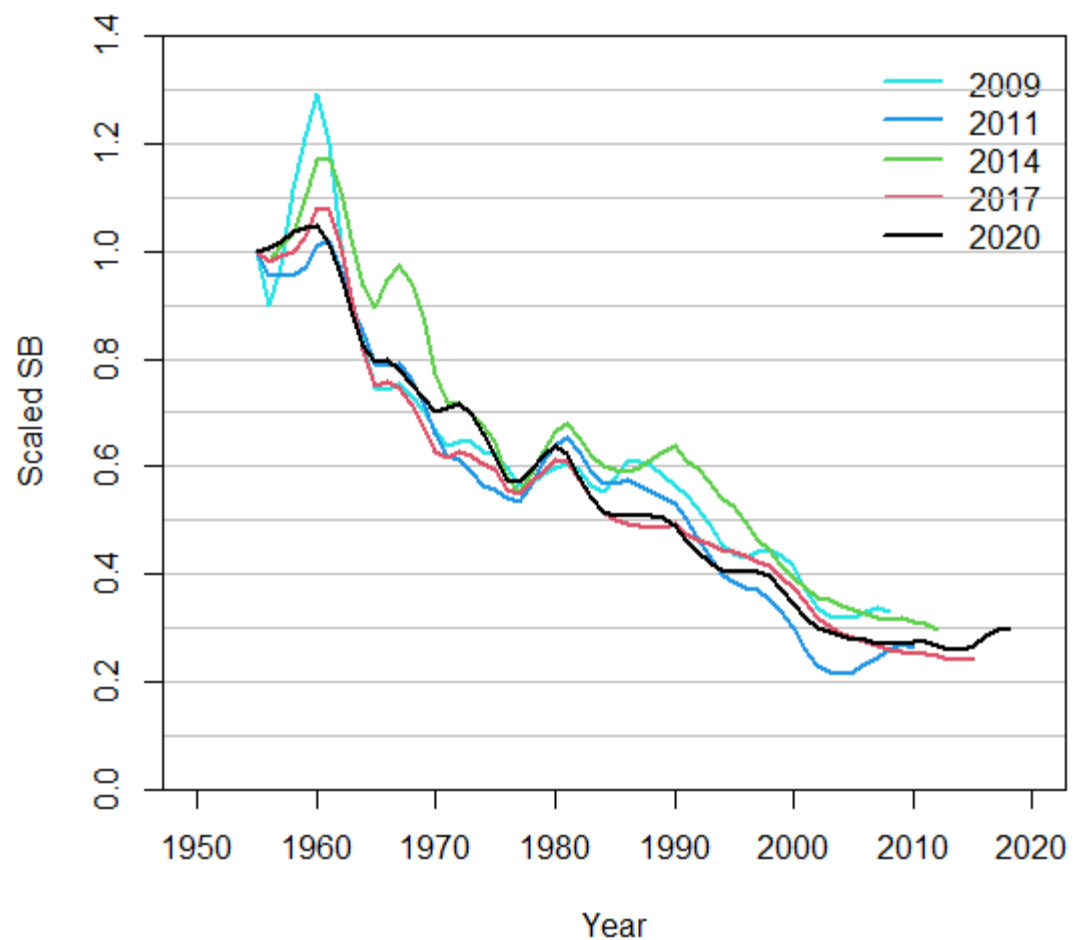


Unfished Biomass (10 years)

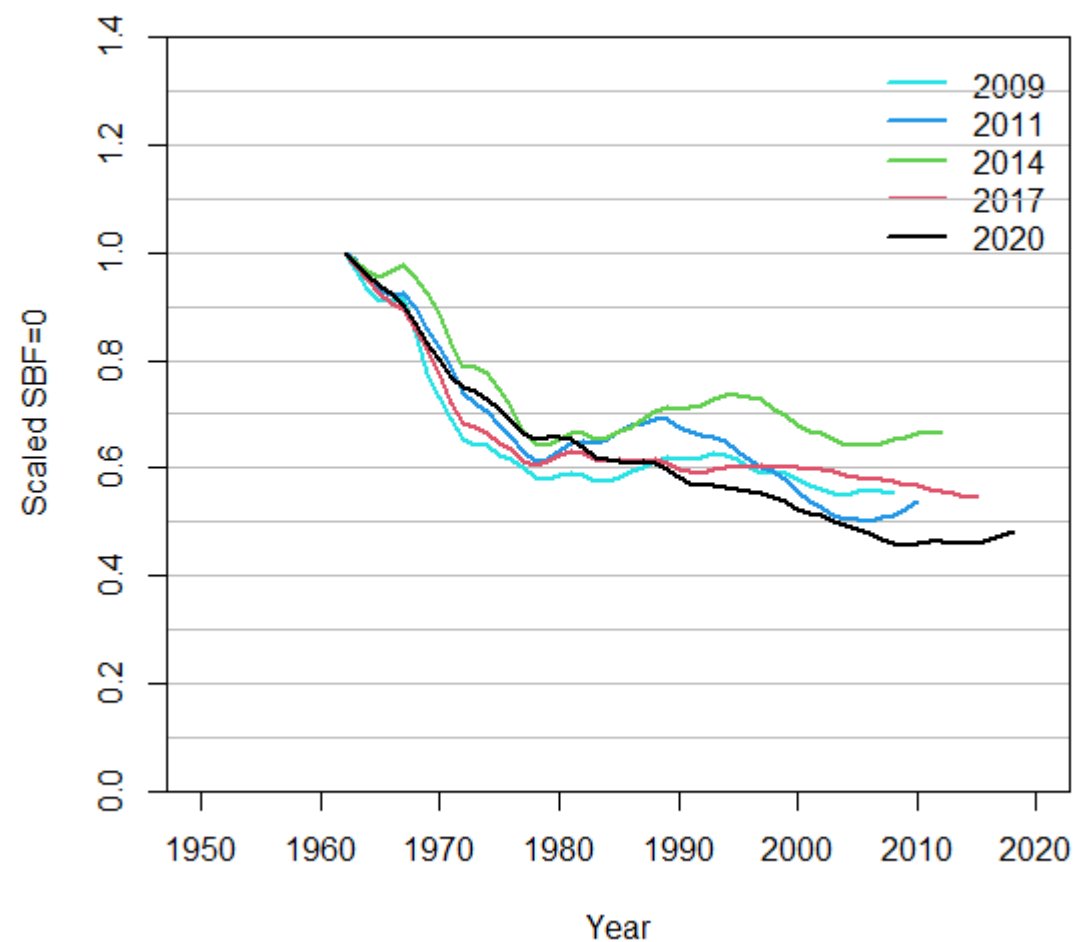


EXPLOITED VS UNEXPLOITED (AVERAGED AND NORMALISED)

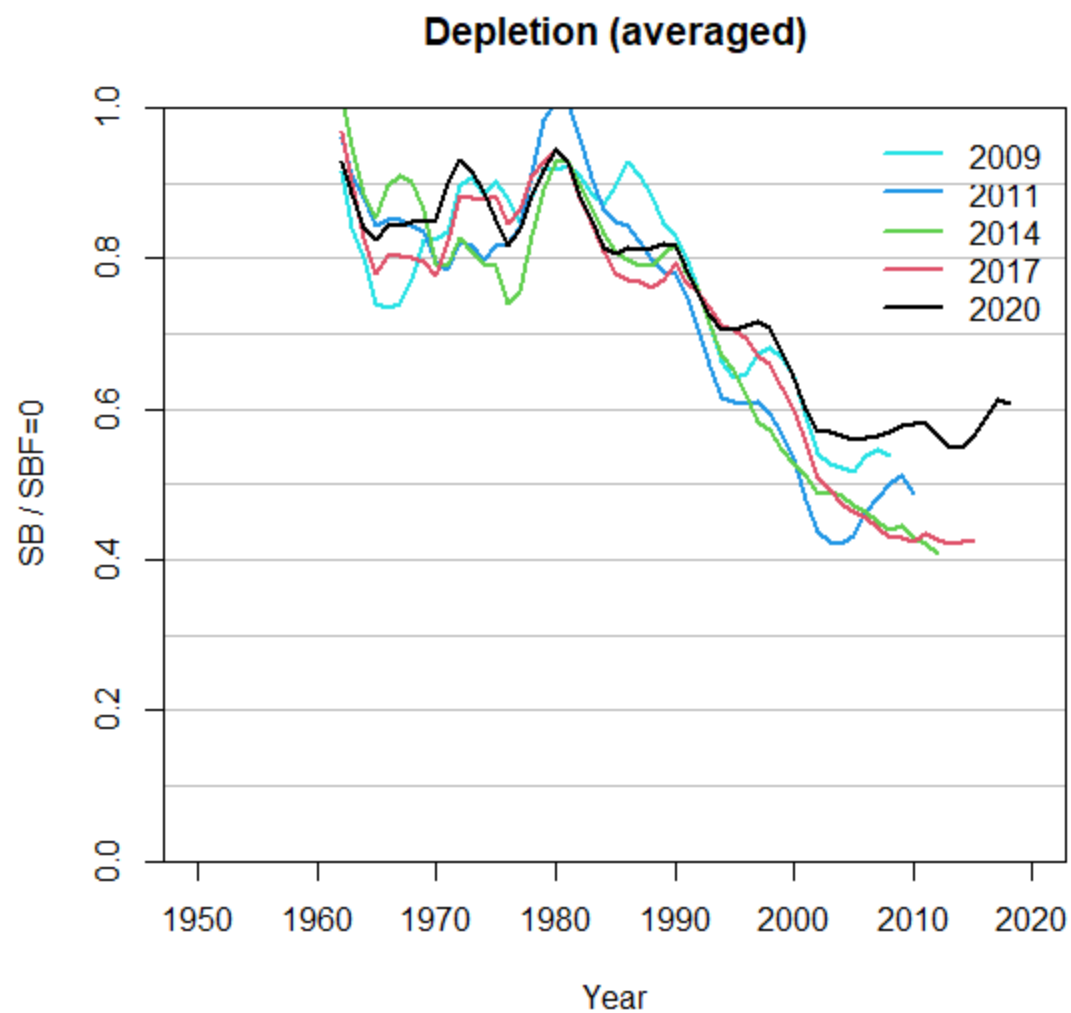
Relative Spawning Biomass (recent)



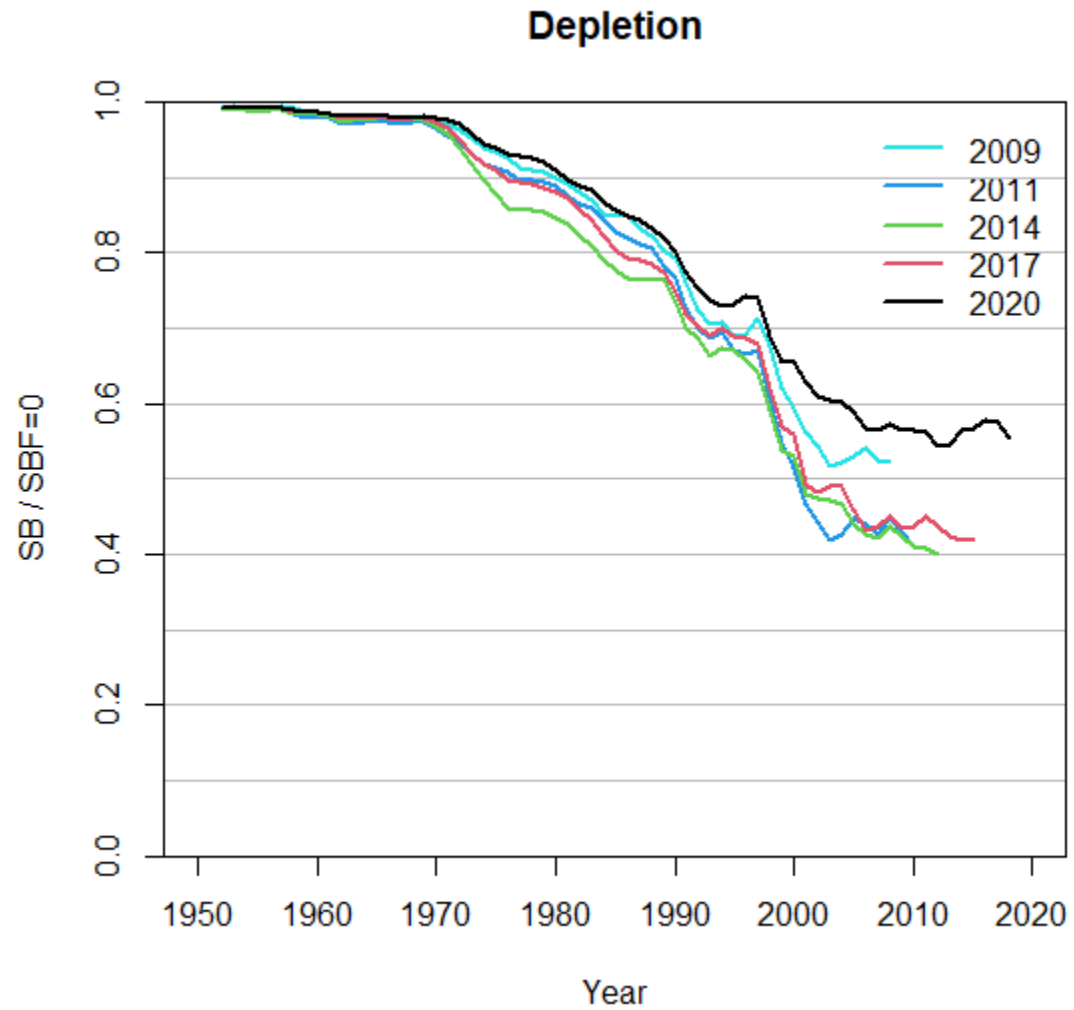
Relative Unfished Biomass (10 years)



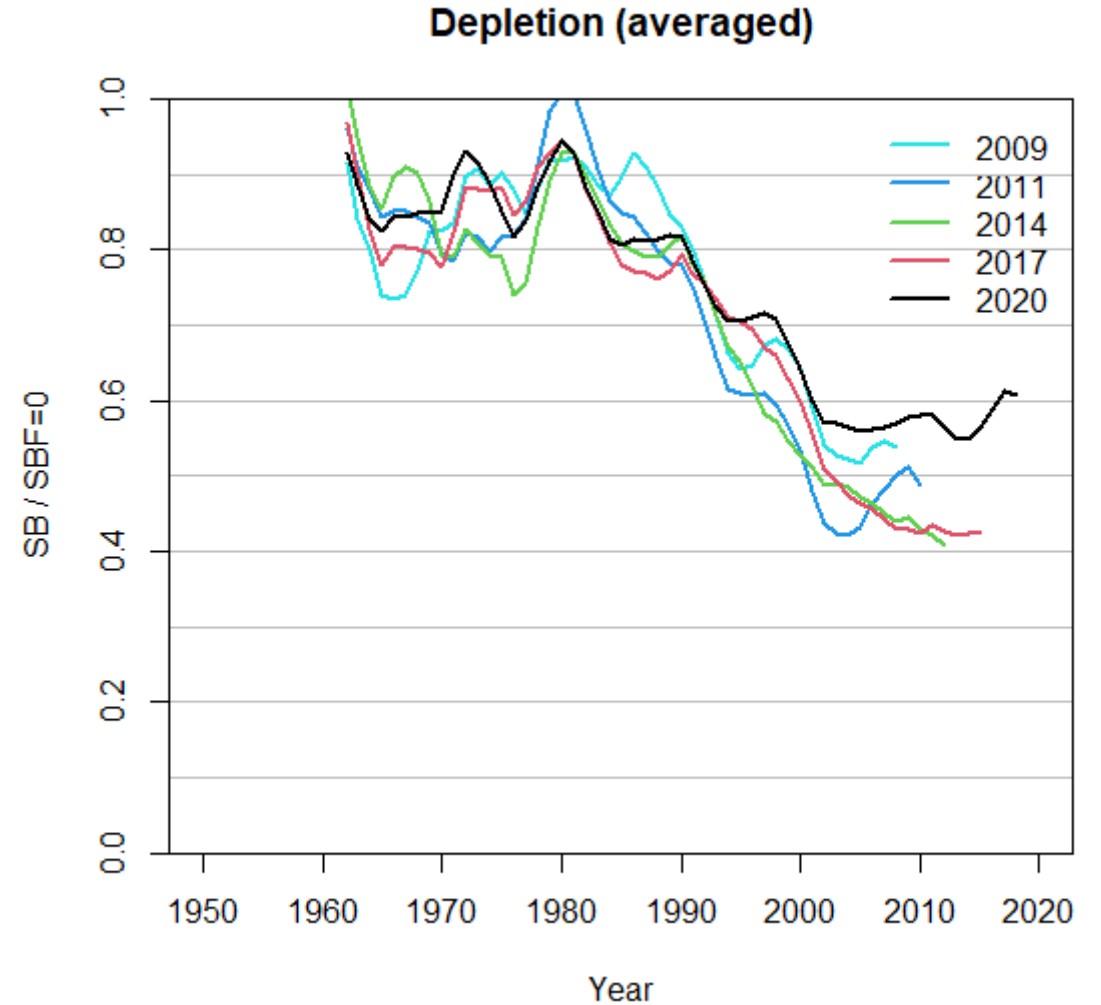
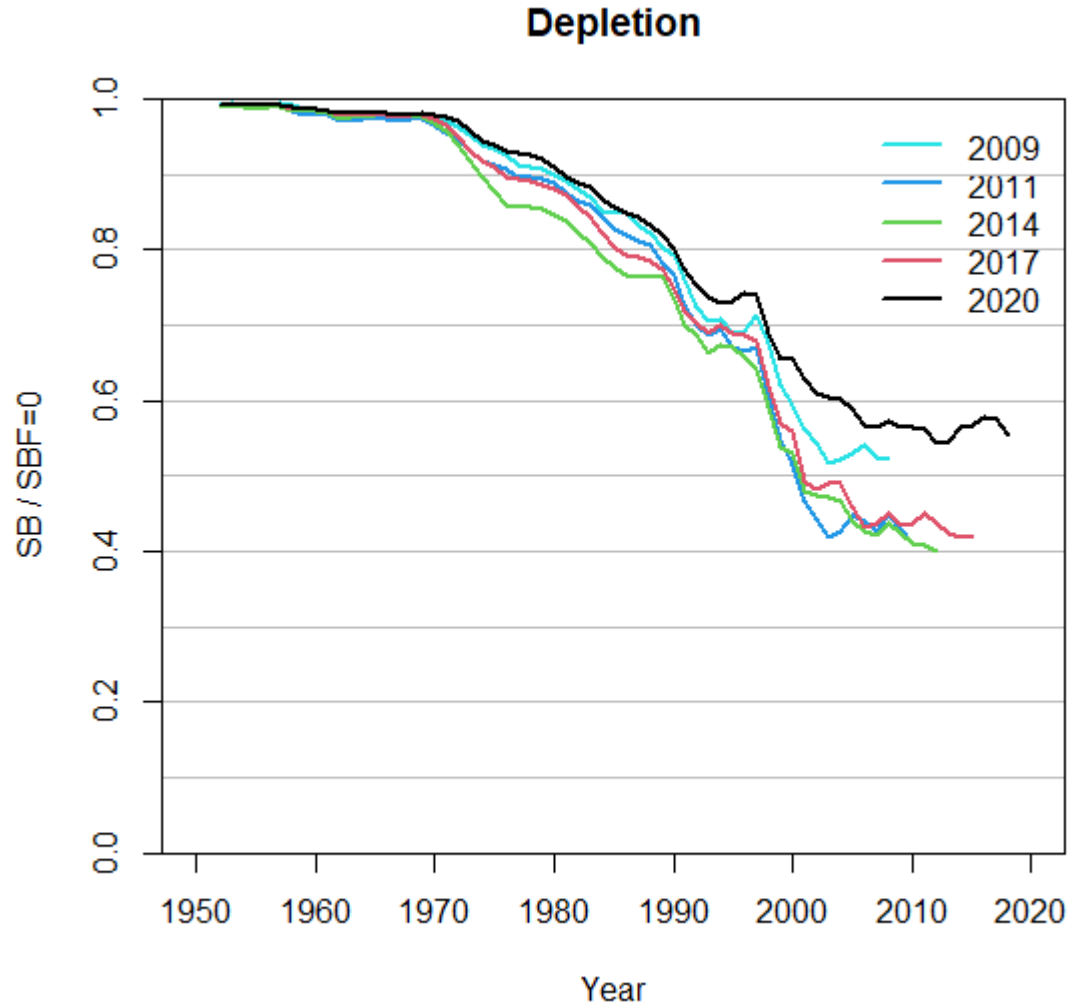
STOCK STATUS (ASSESSMENTS 2009-2020, AVERAGE)



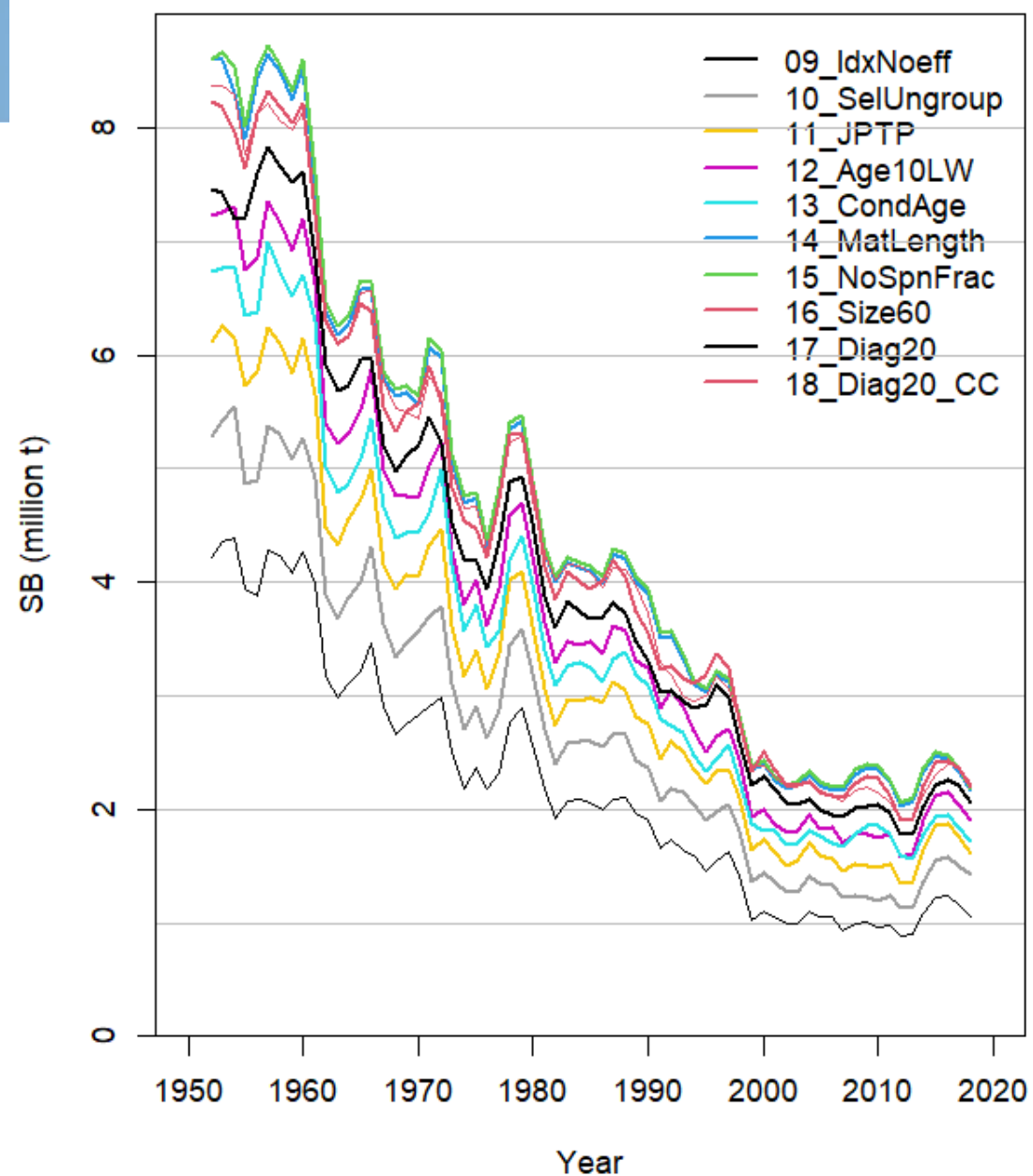
STOCK STATUS (ASSESSMENTS 2009-2020, INSTANTANEOUS)



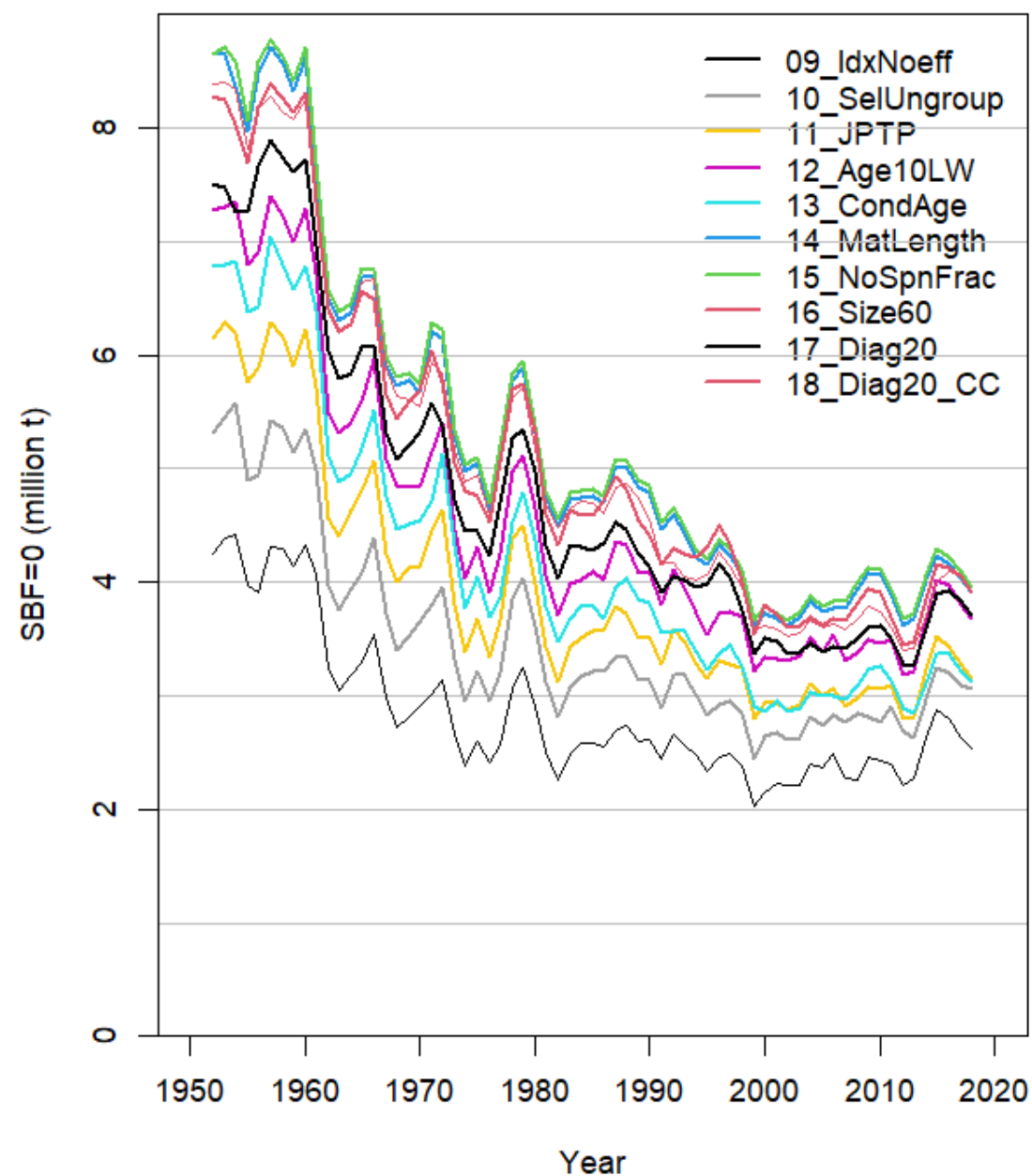
STOCK STATUS (ASSESSMENTS 2009-2020, INSTANTANEOUS)



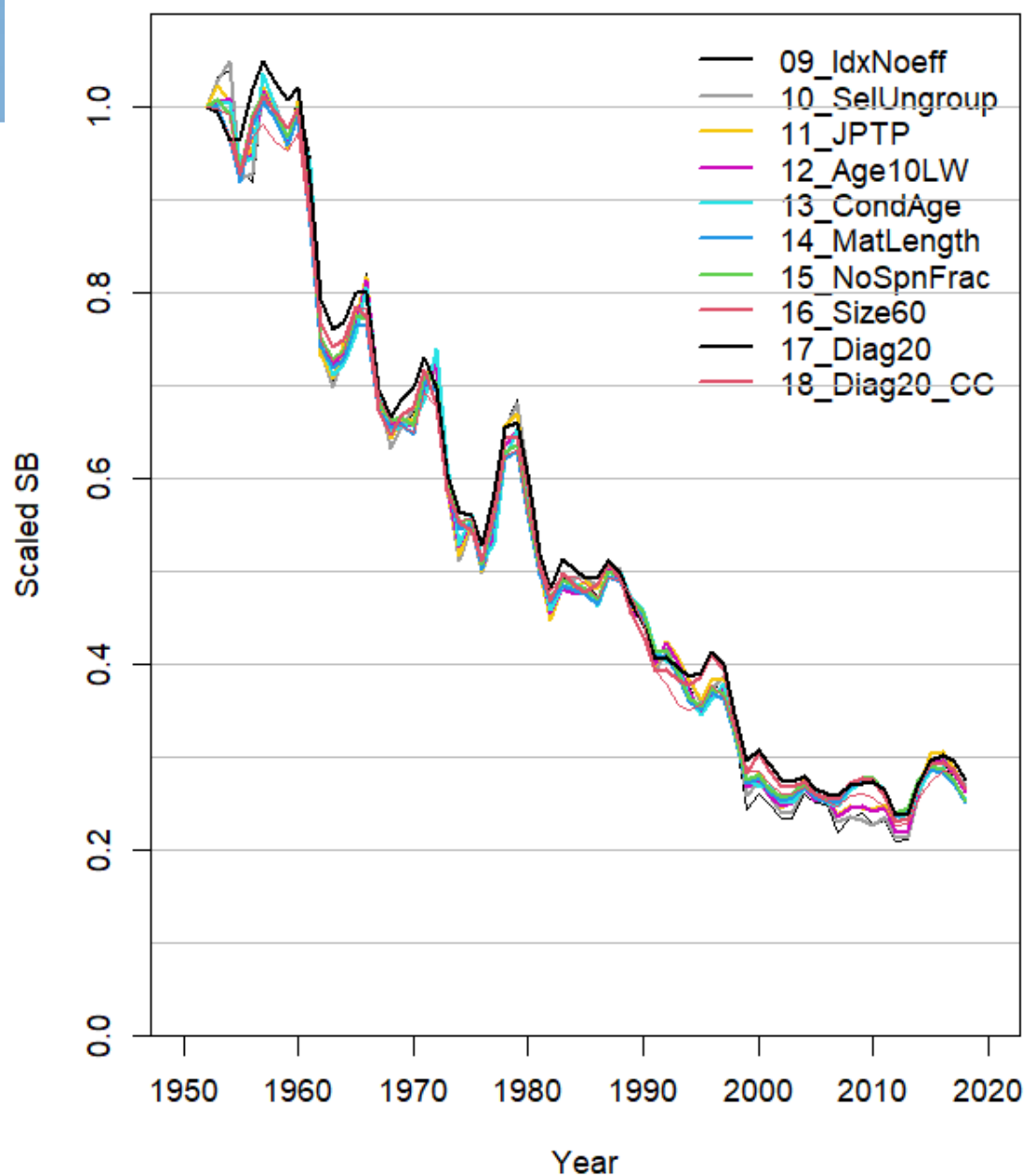
Spawning Biomass



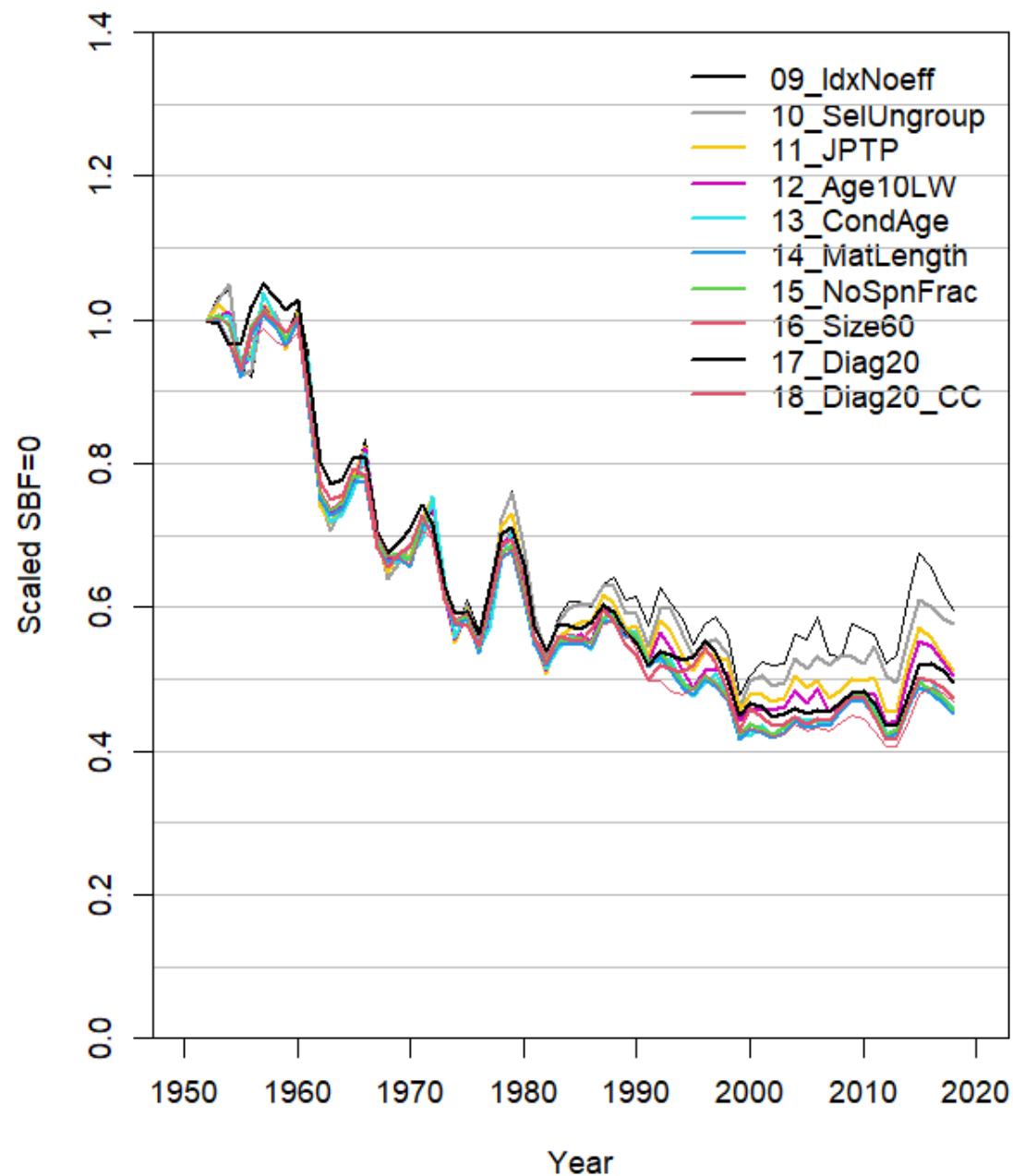
Unfished Biomass

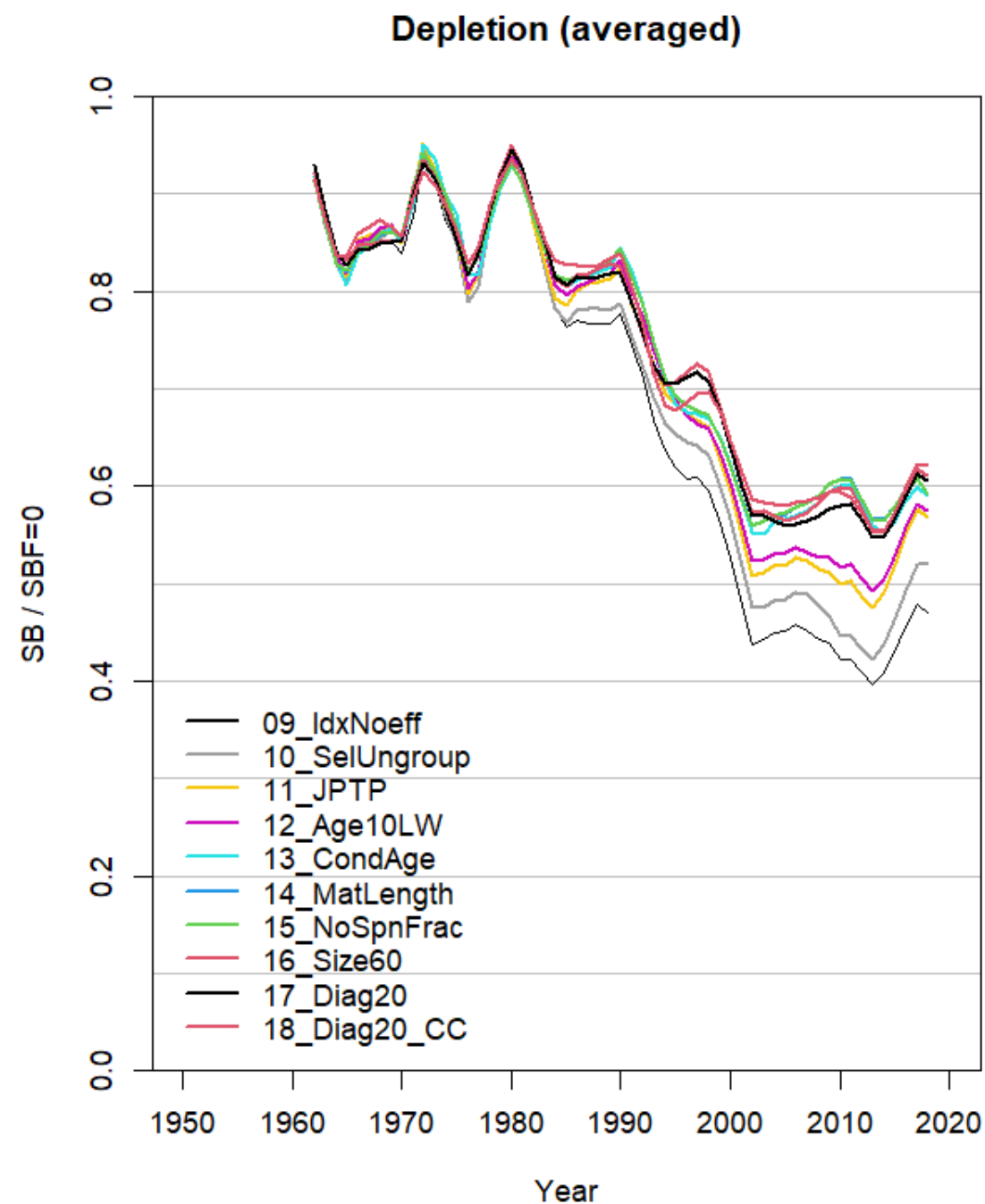
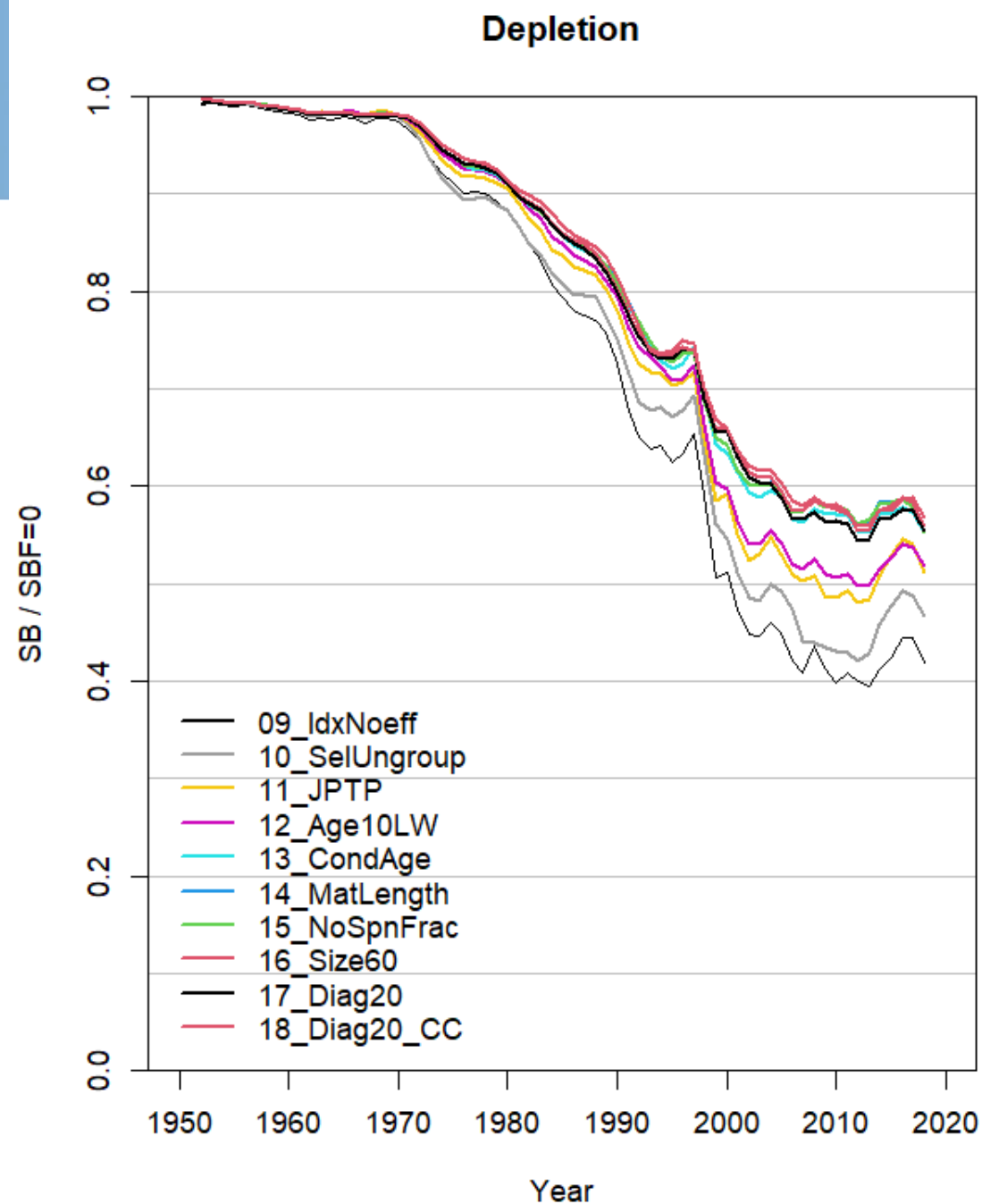


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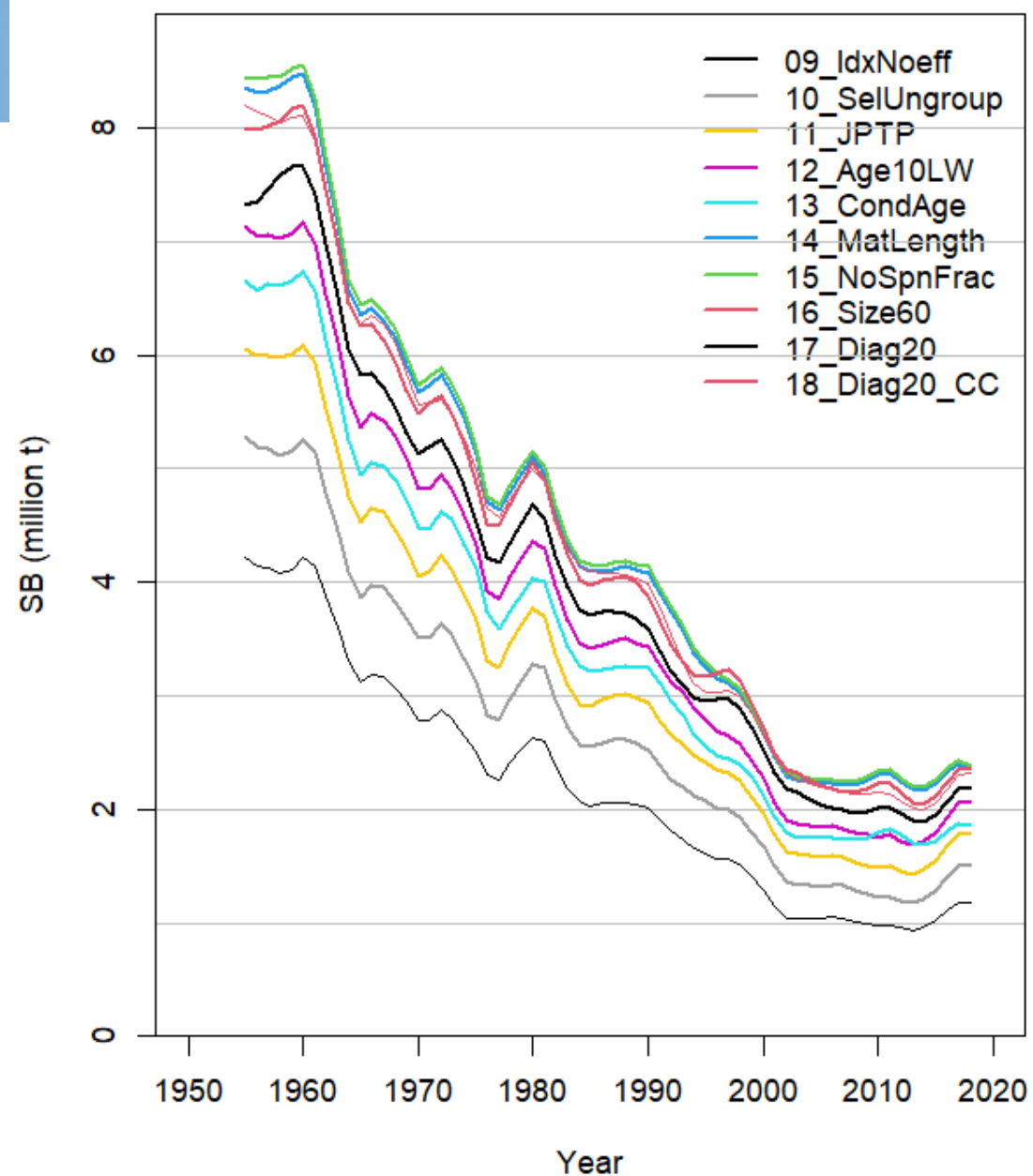


Relative Unfished Biomass

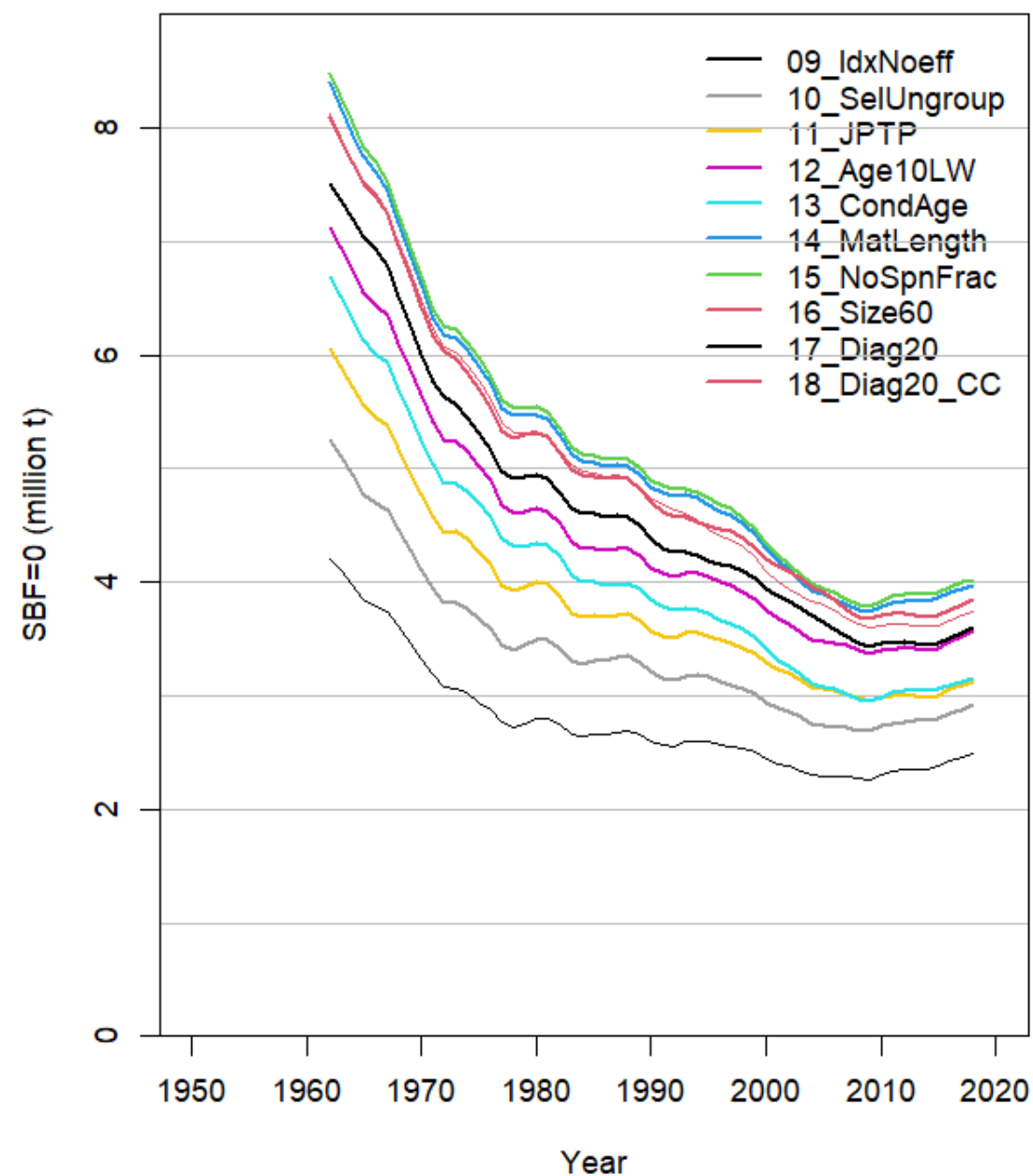




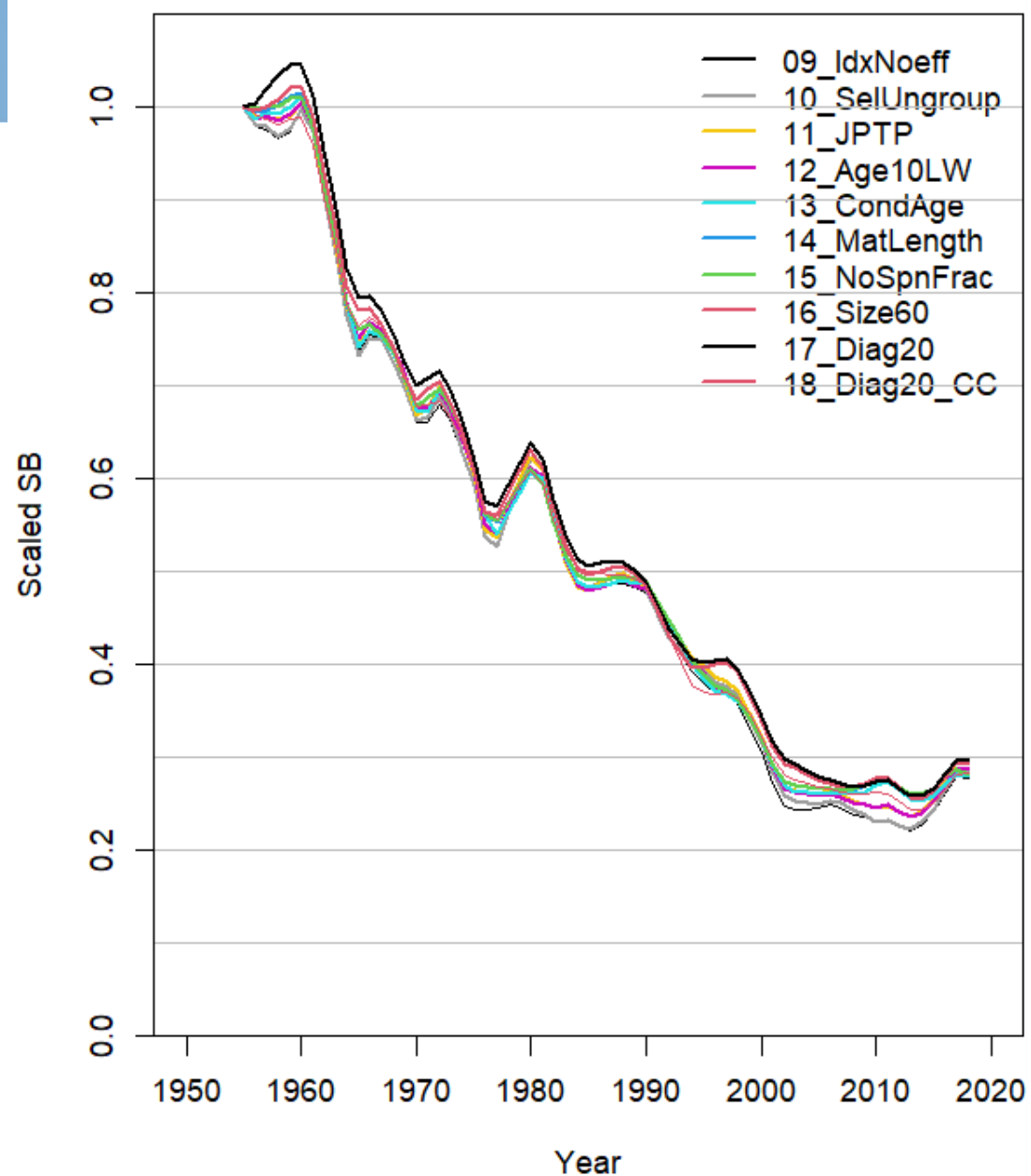
Spawning Biomass (recent)



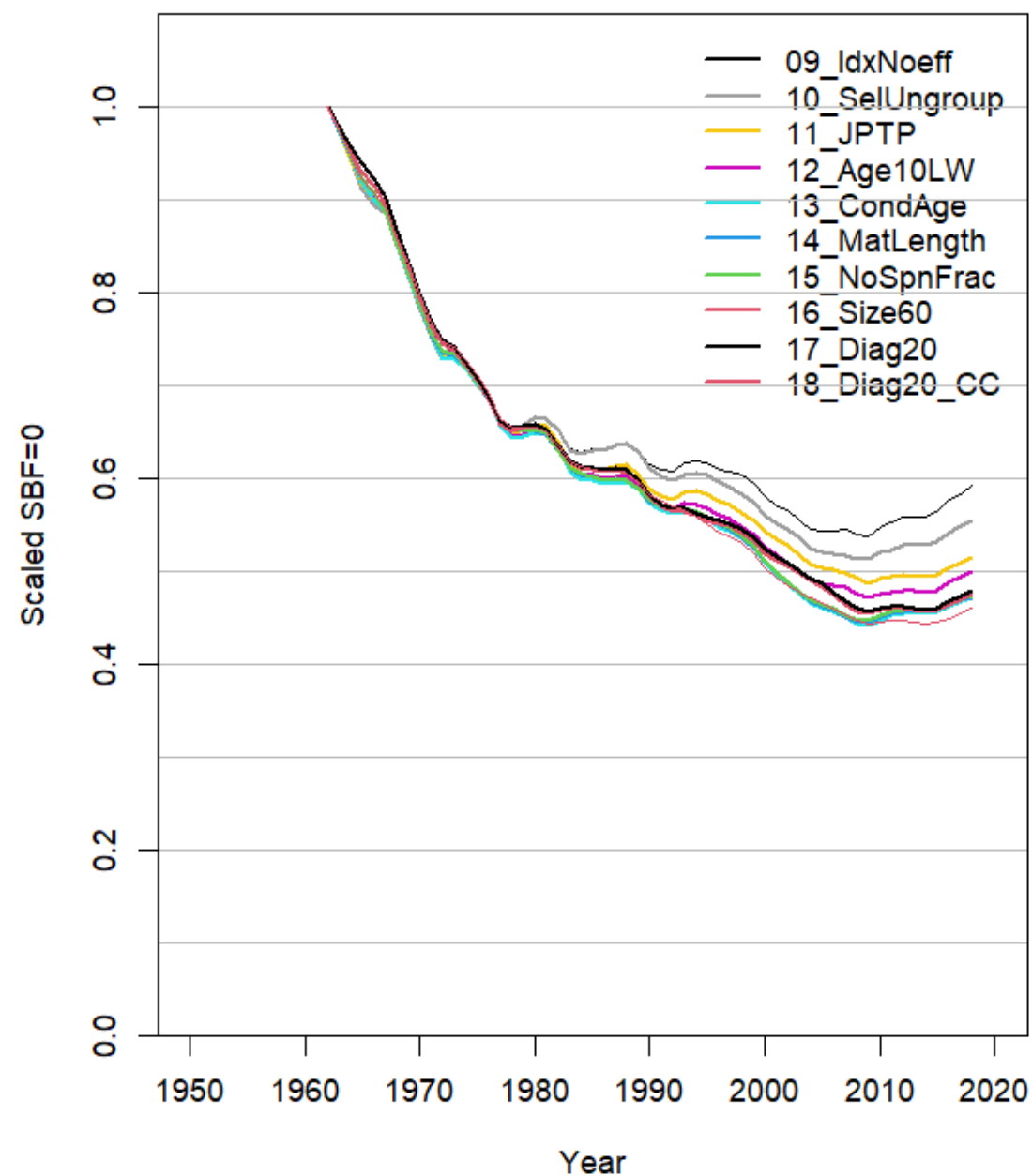
Unfished Biomass (10 years)

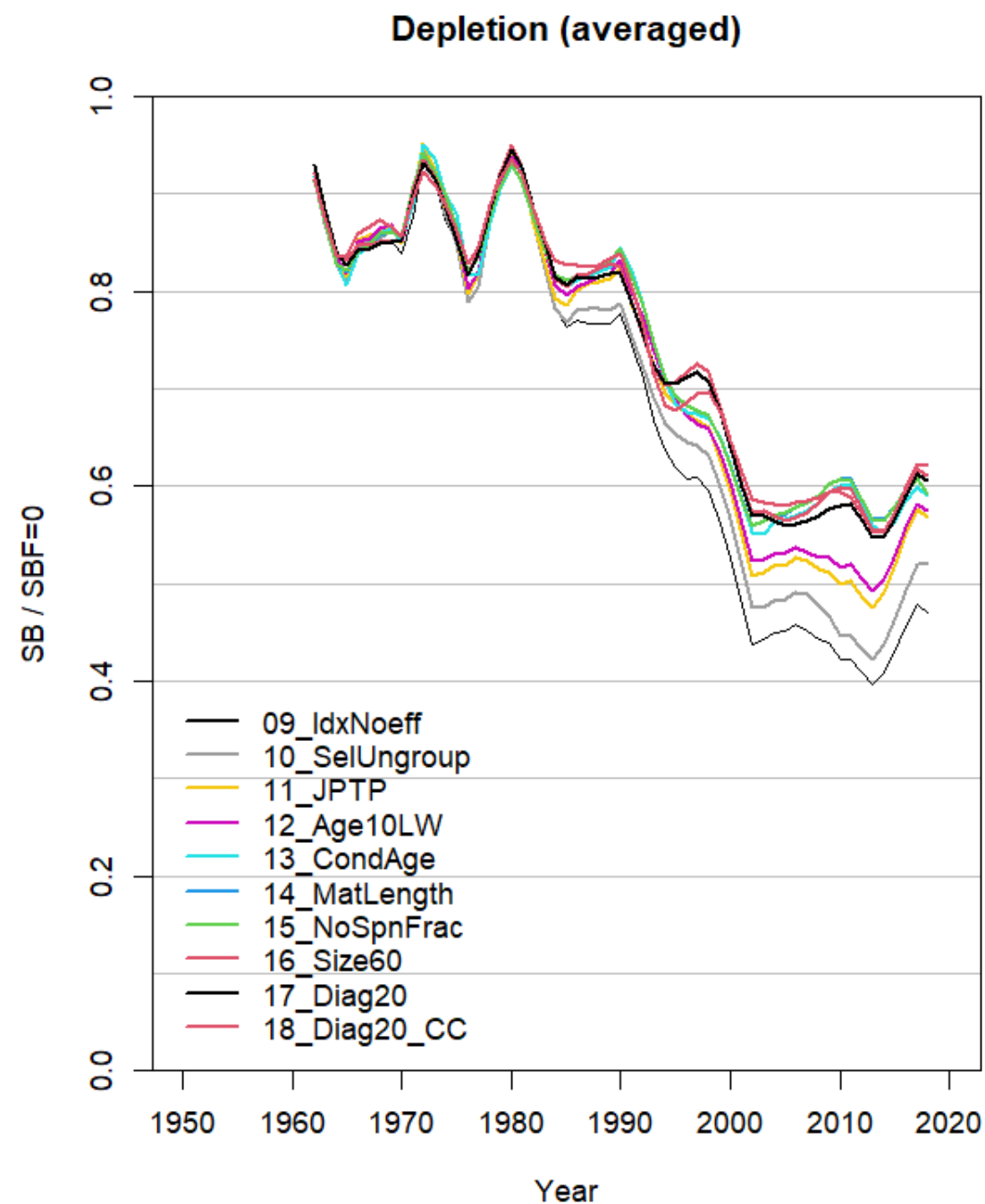
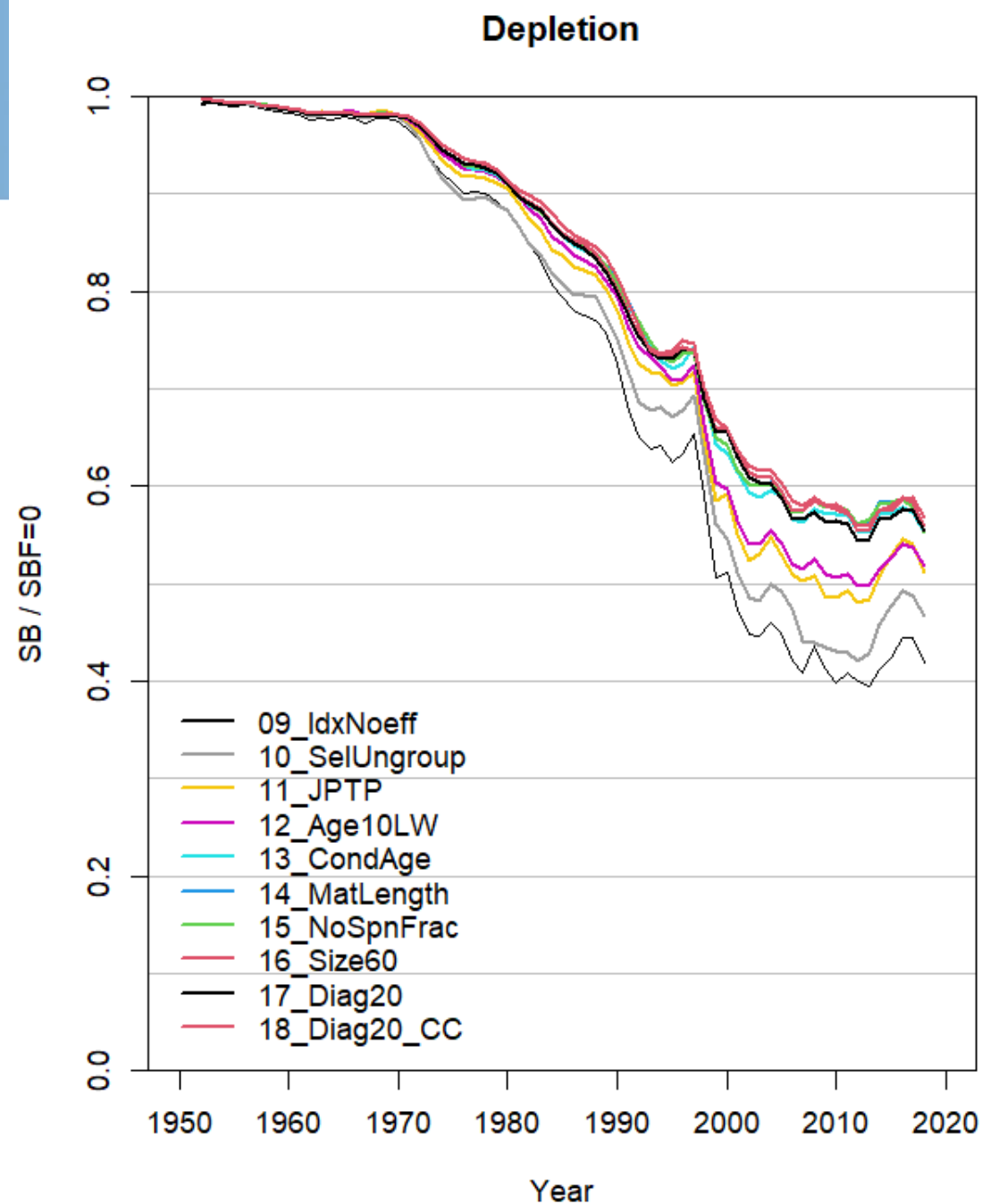


Relative Spawning Biomass (recent)

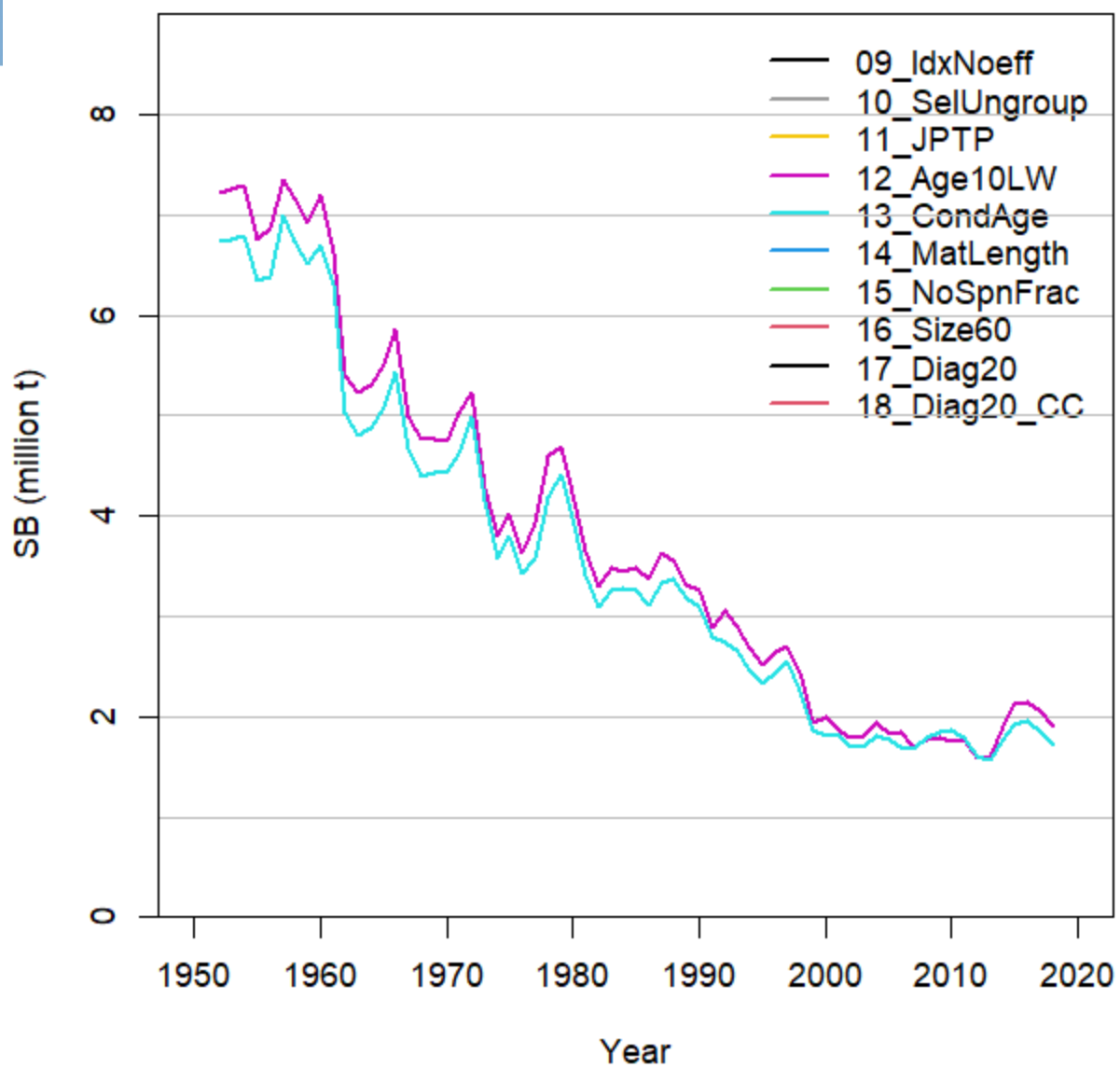


Relative Unfished Biomass (10 years)

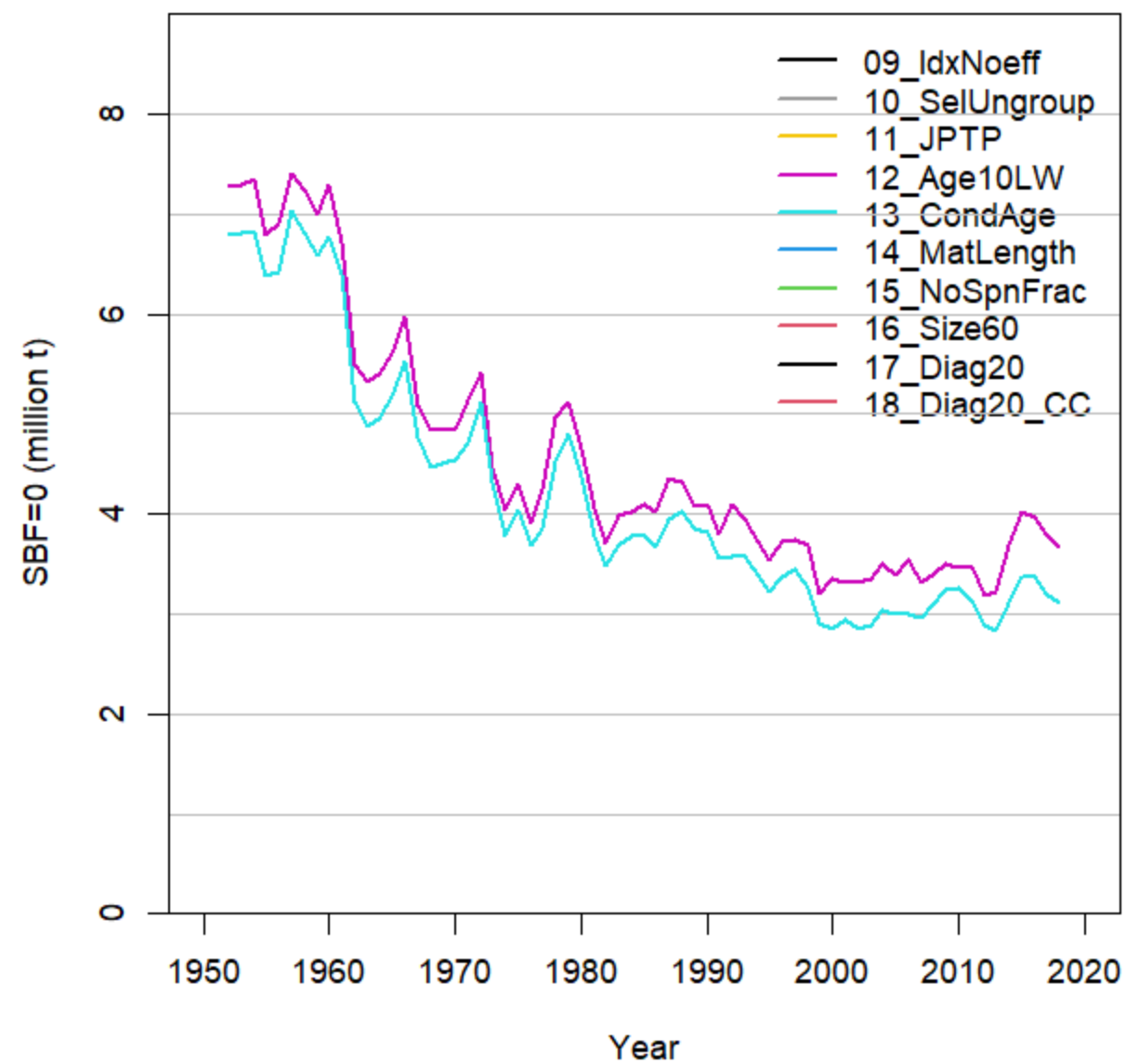




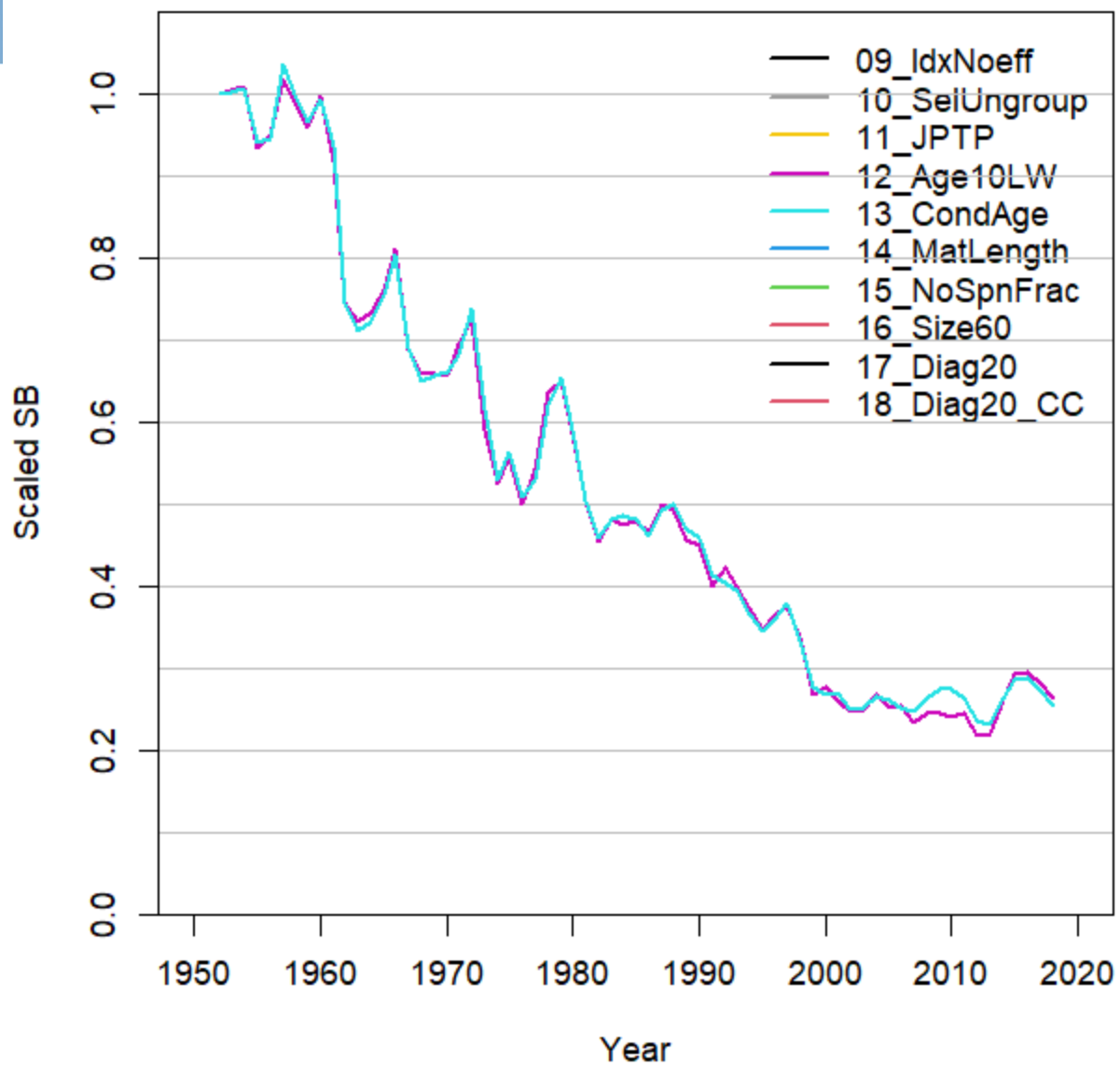
Spawning Biomass



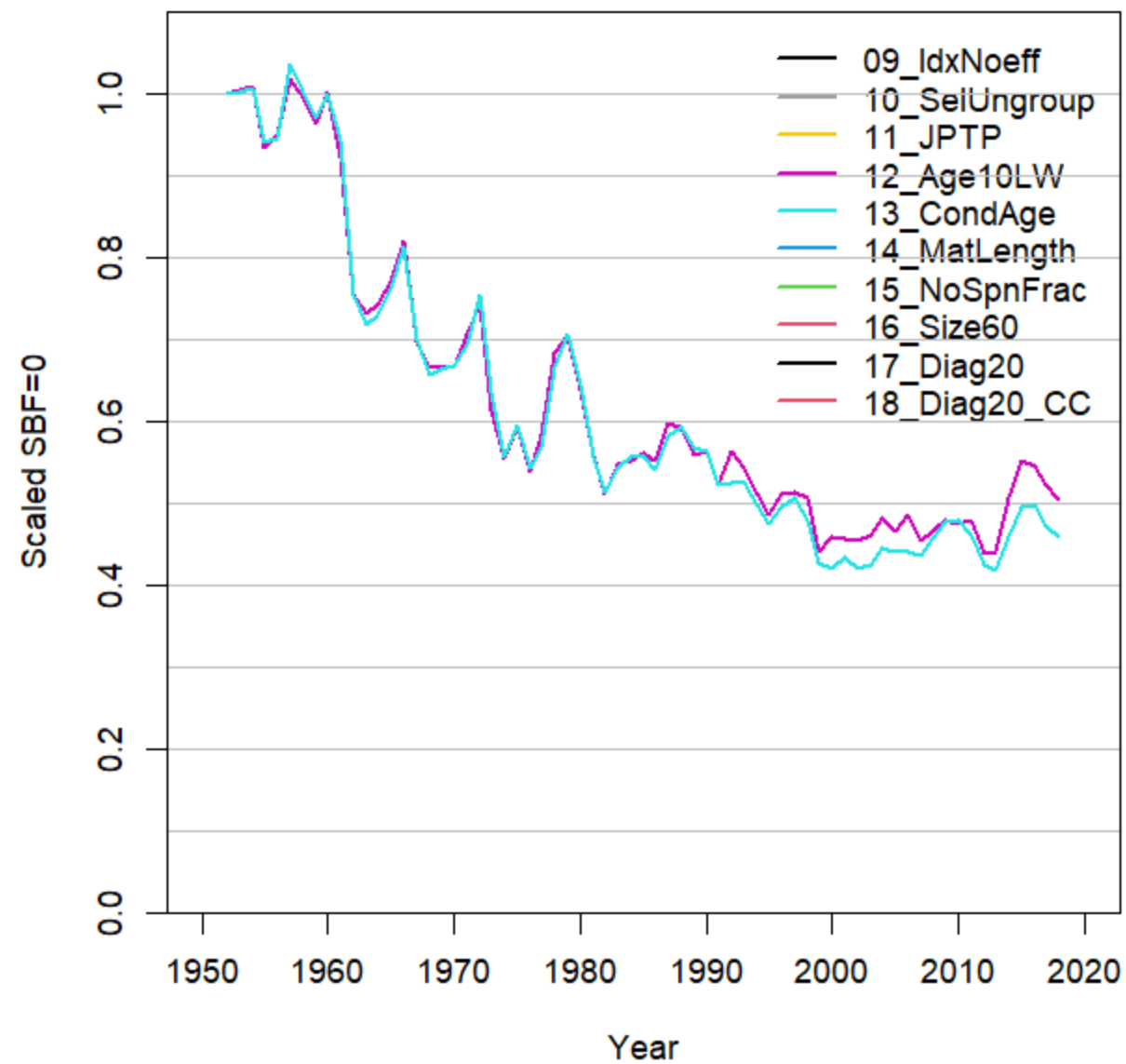
Unfished Biomass



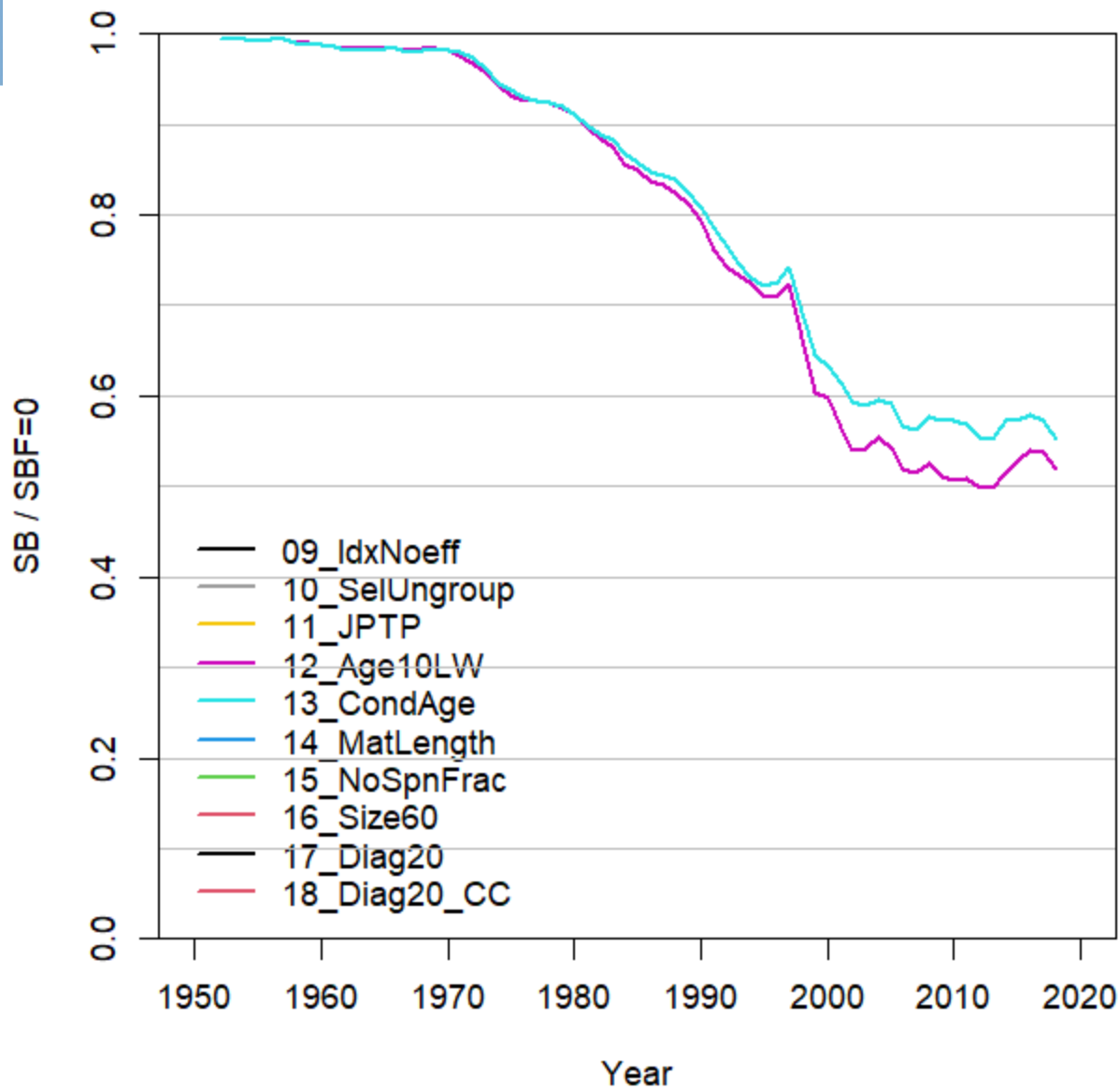
Relative Spawning Biomass



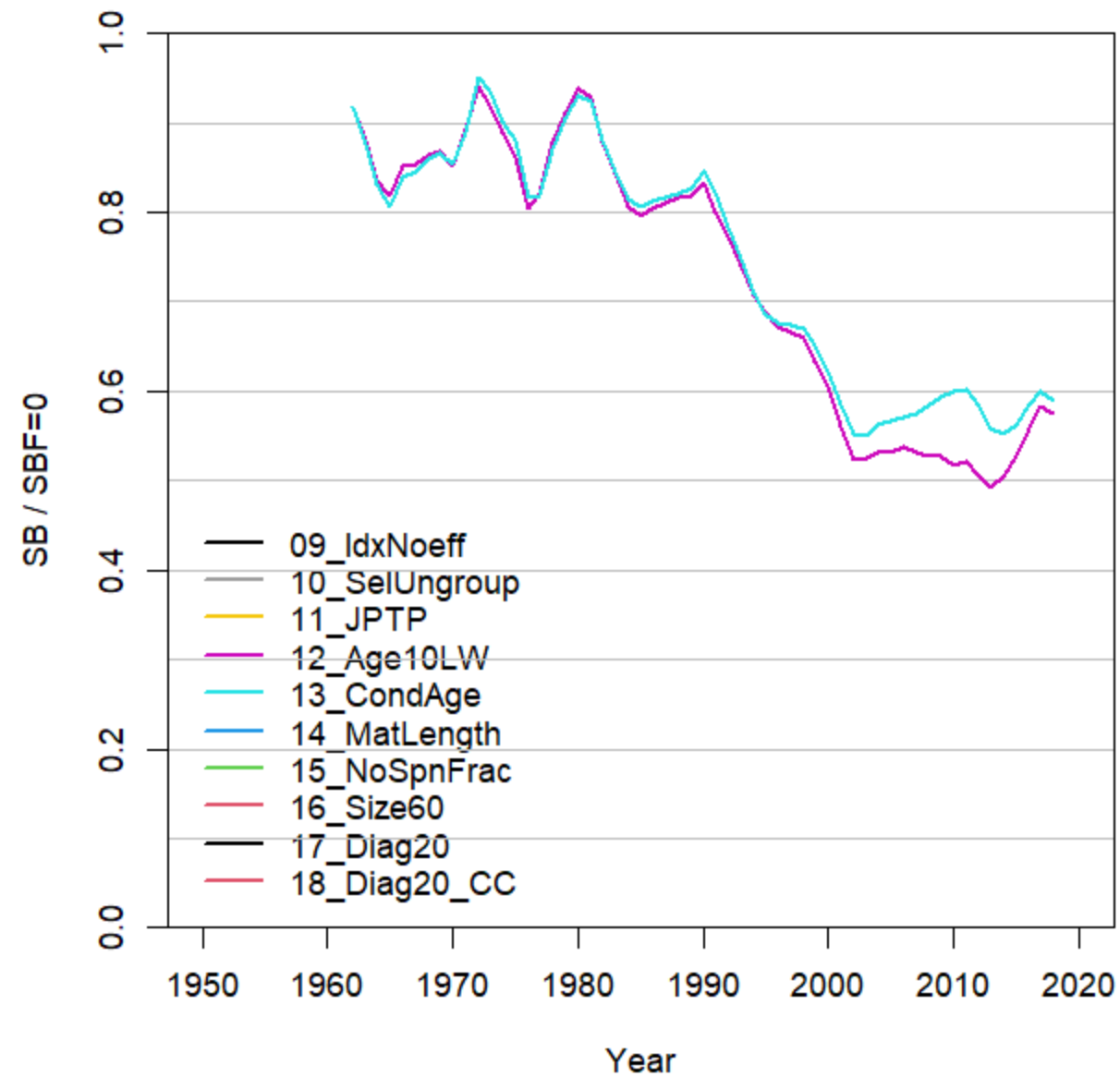
Relative Unfished Biomass



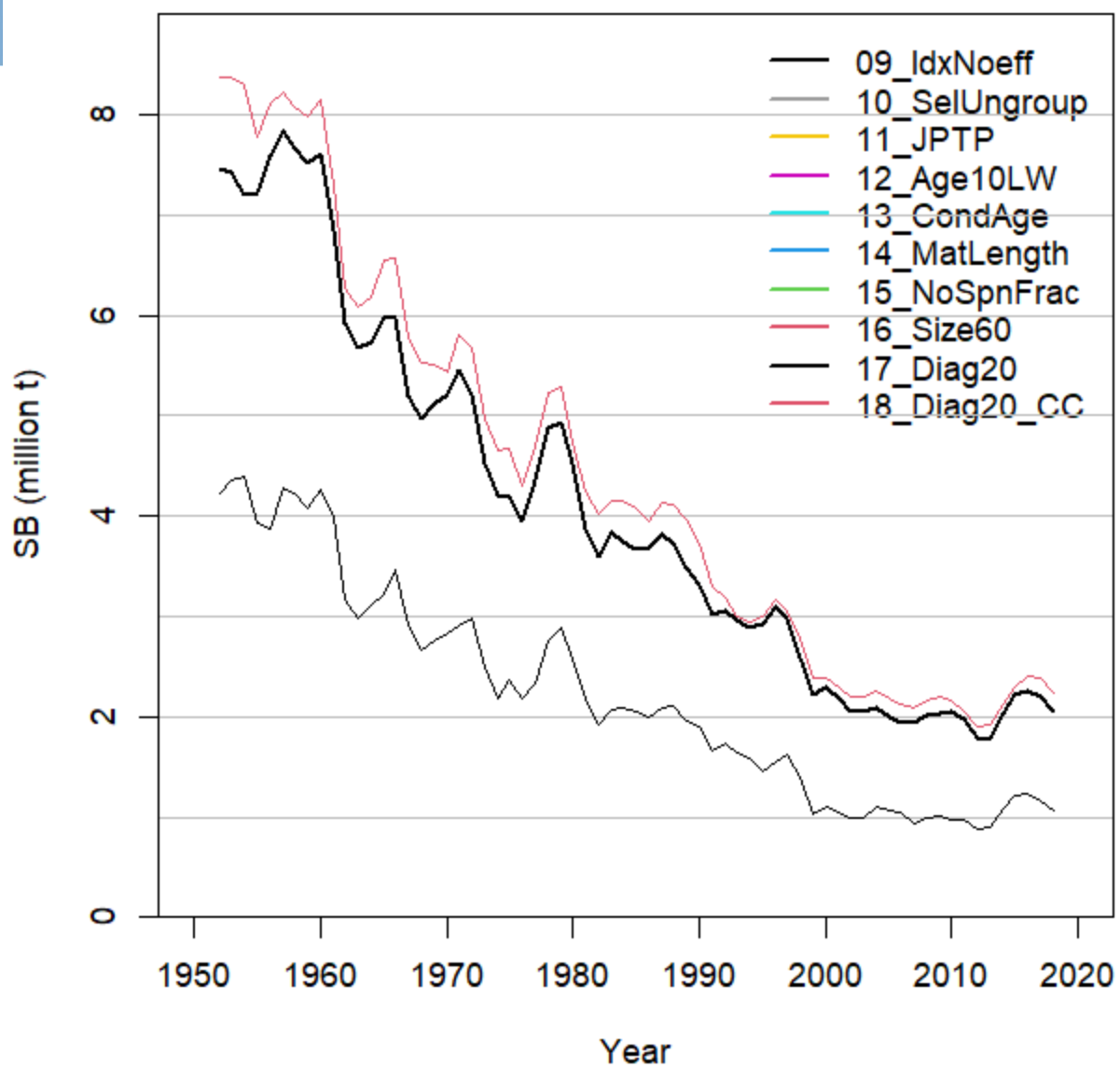
Depletion



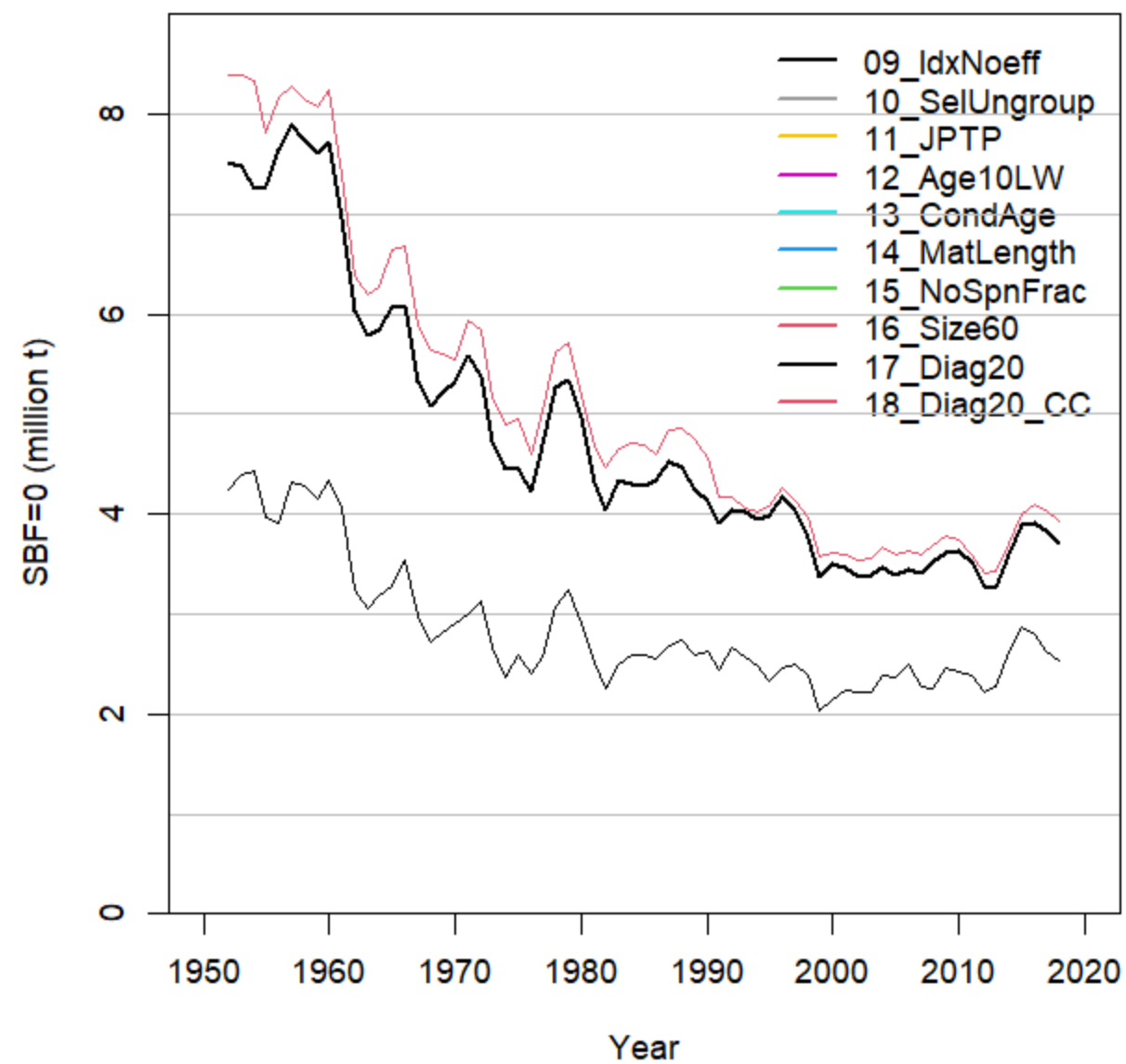
Depletion (averaged)



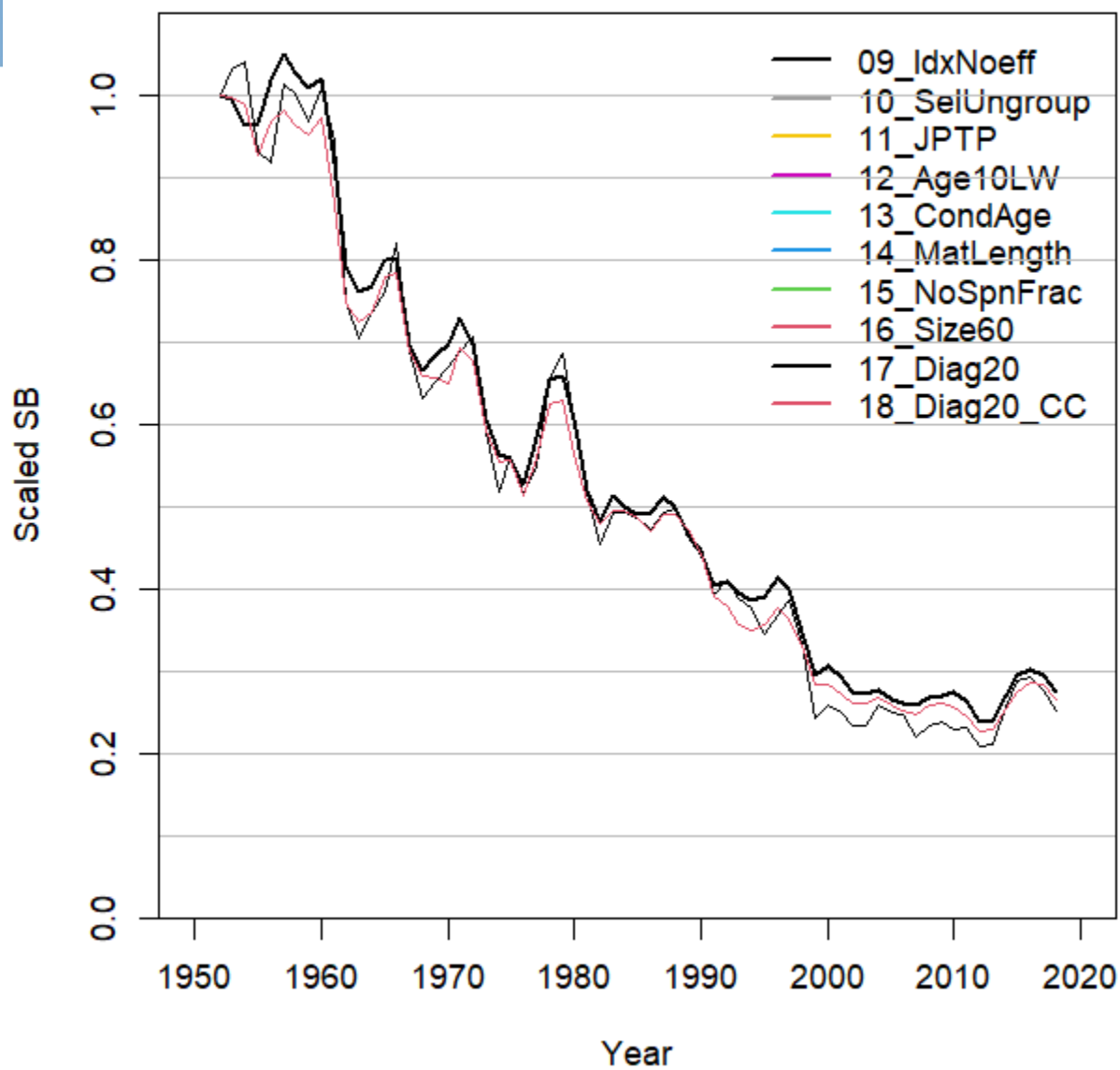
Spawning Biomass



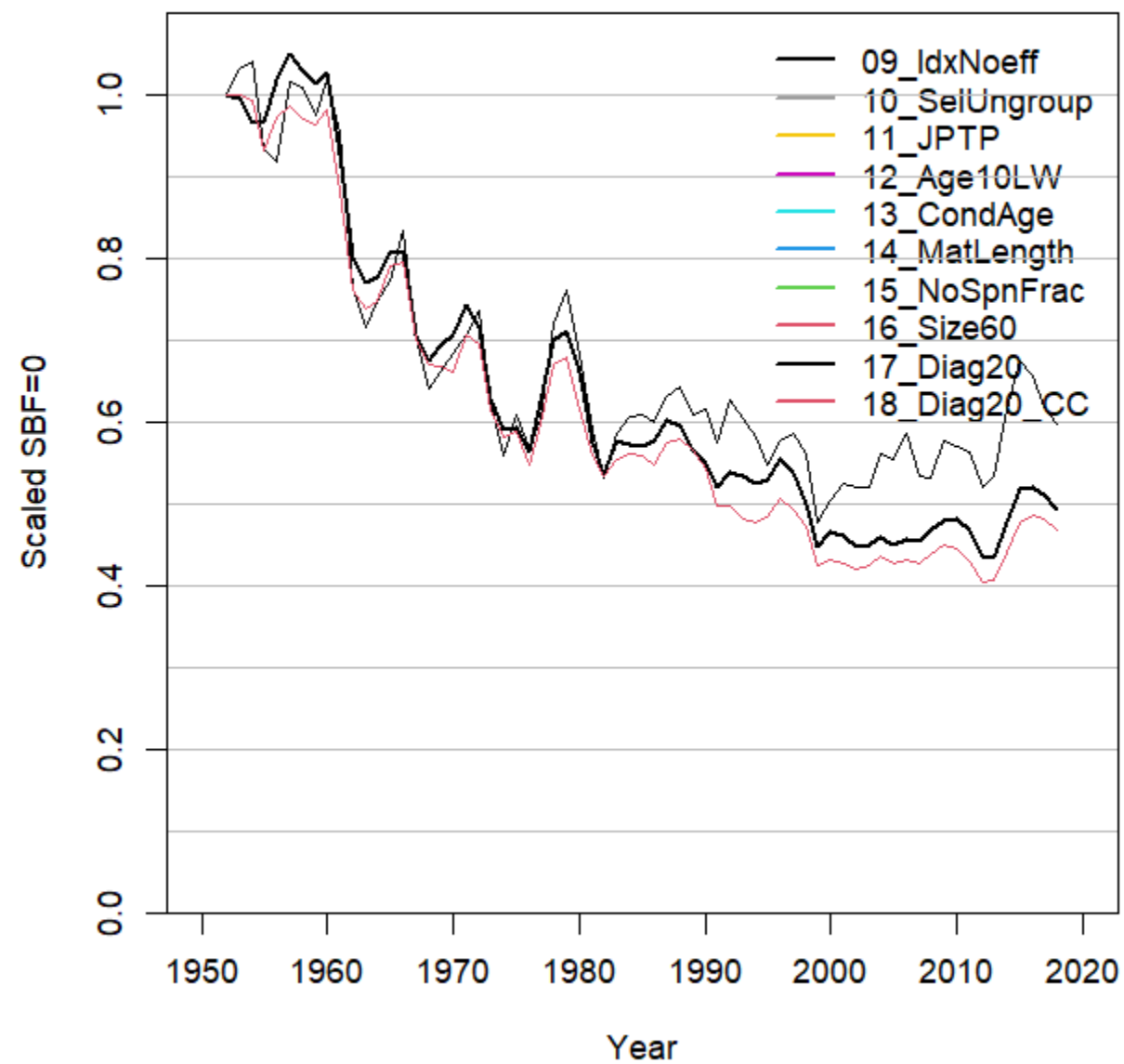
Unfished Biomass



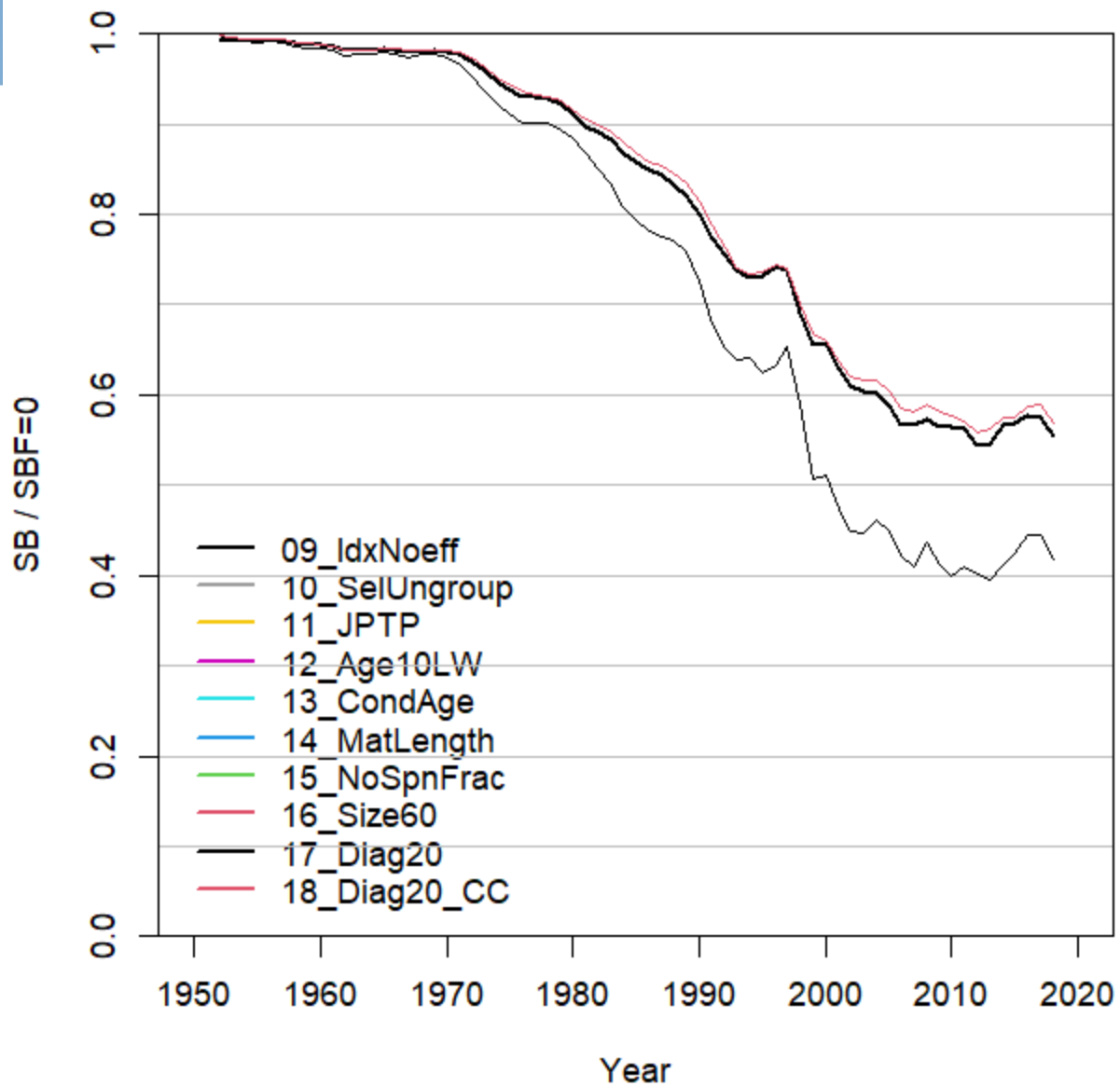
Relative Spawning Biomass



Relative Unfished Biomass



Depletion



Depletion (averaged)

