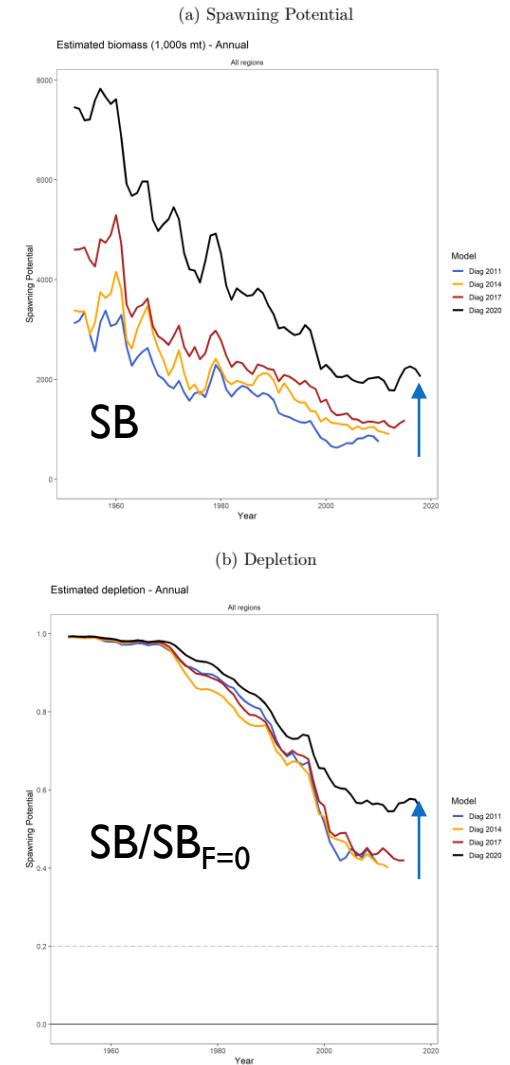


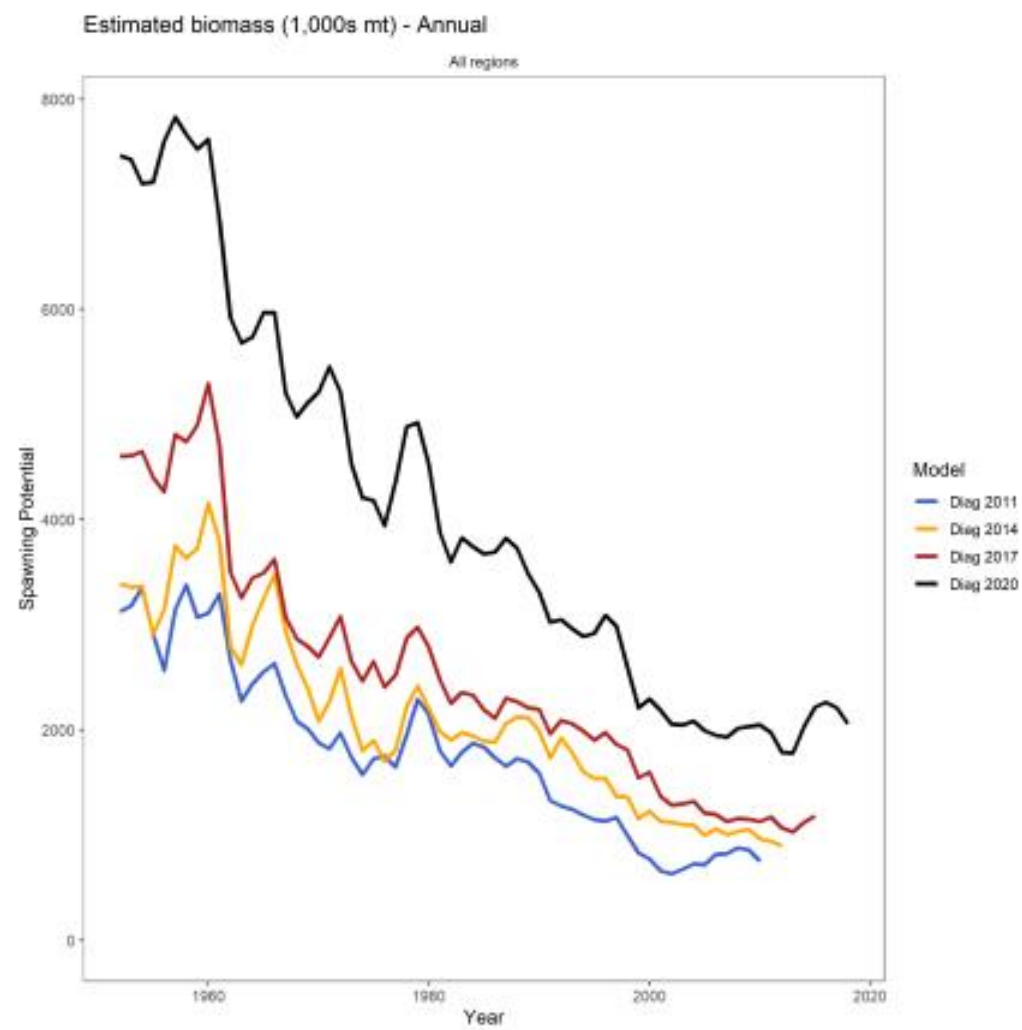
# WCPO YELLOWFIN TUNA ASSESSMENT PEER REVIEW NOUMEA, 7-13 SEPT, 2022

## Background

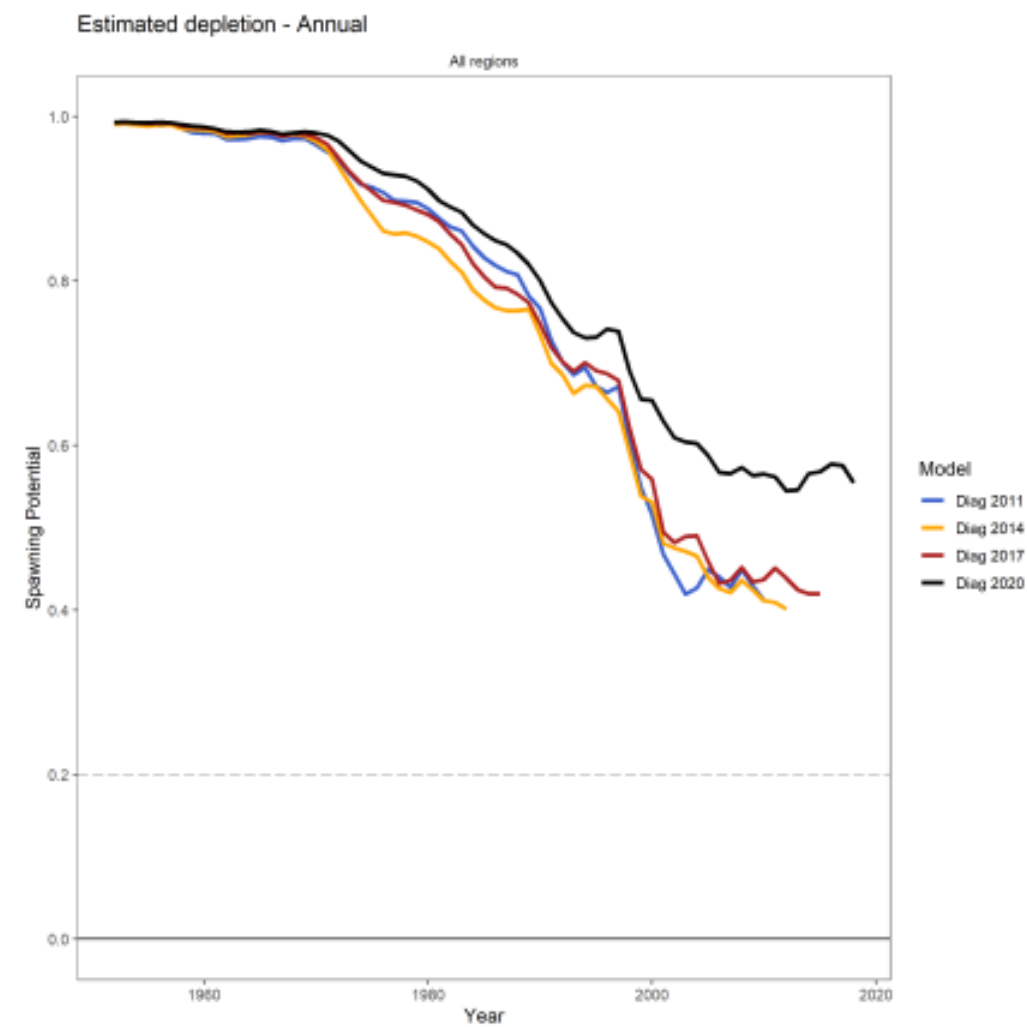
- Blah blah blah



(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)

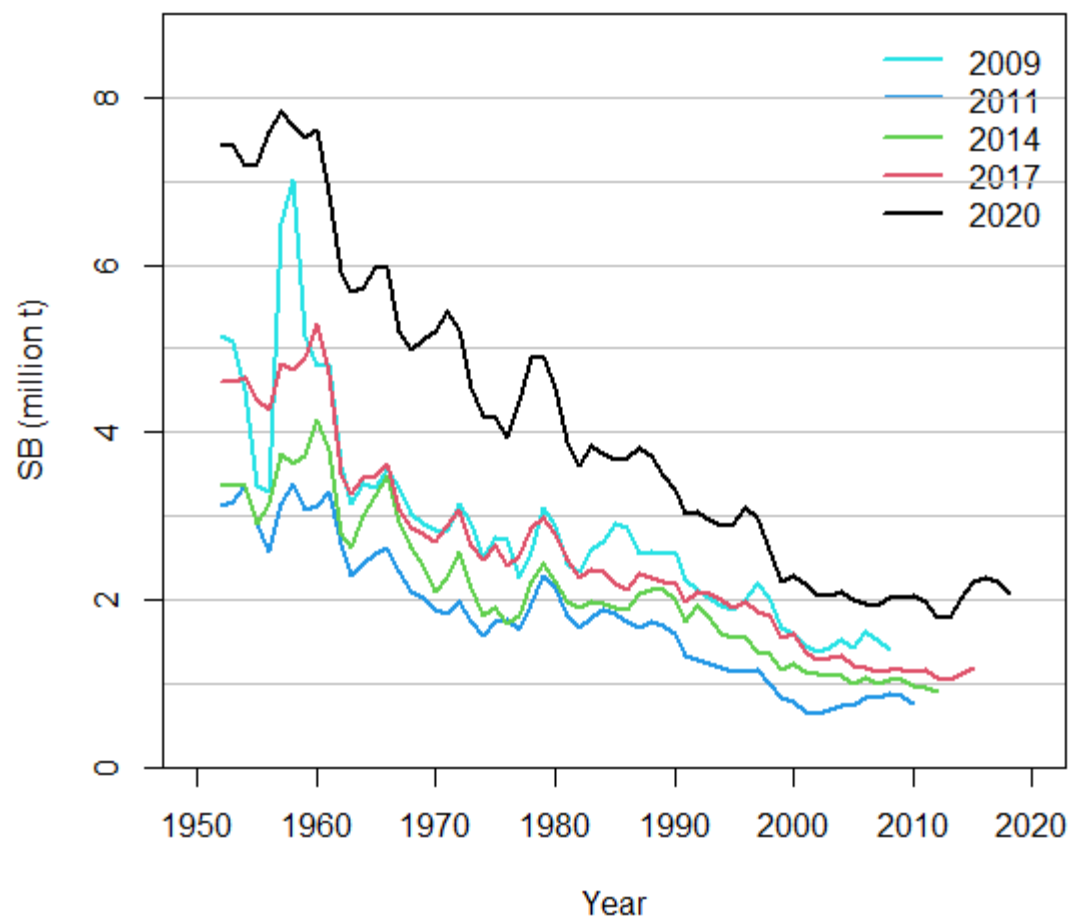
Averaged depletion: applied to the median of the uncertainty grid for management

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

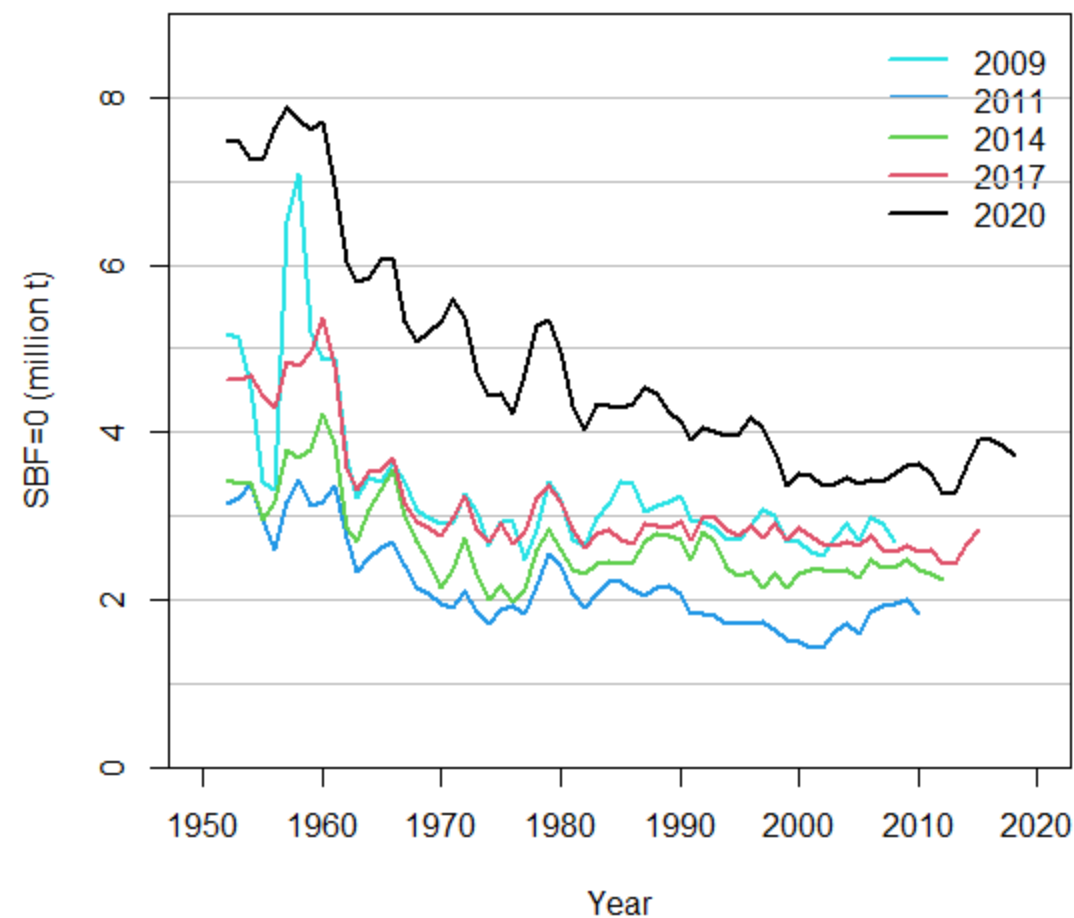
Why? Historical precedent

# EXPLOITED VS UNEXPLOITED

**Spawning Biomass**

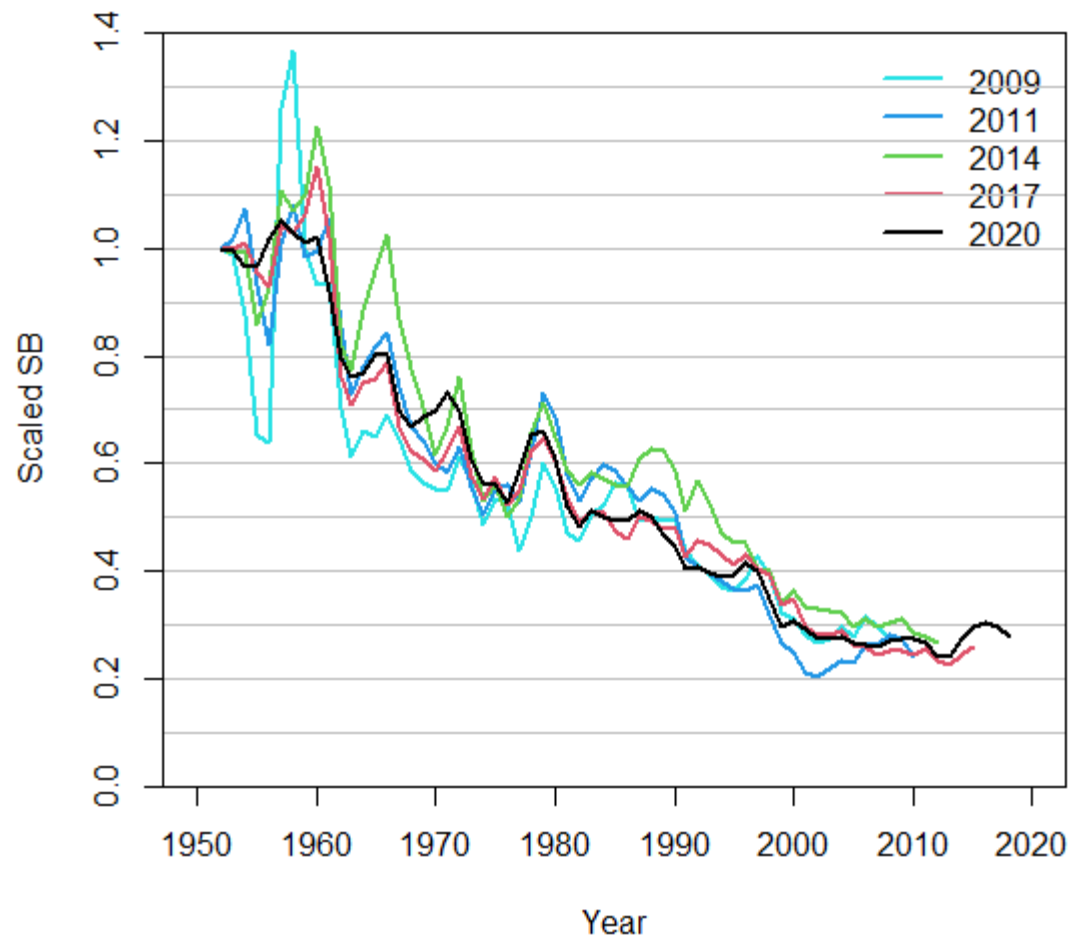


**Unfished Biomass**

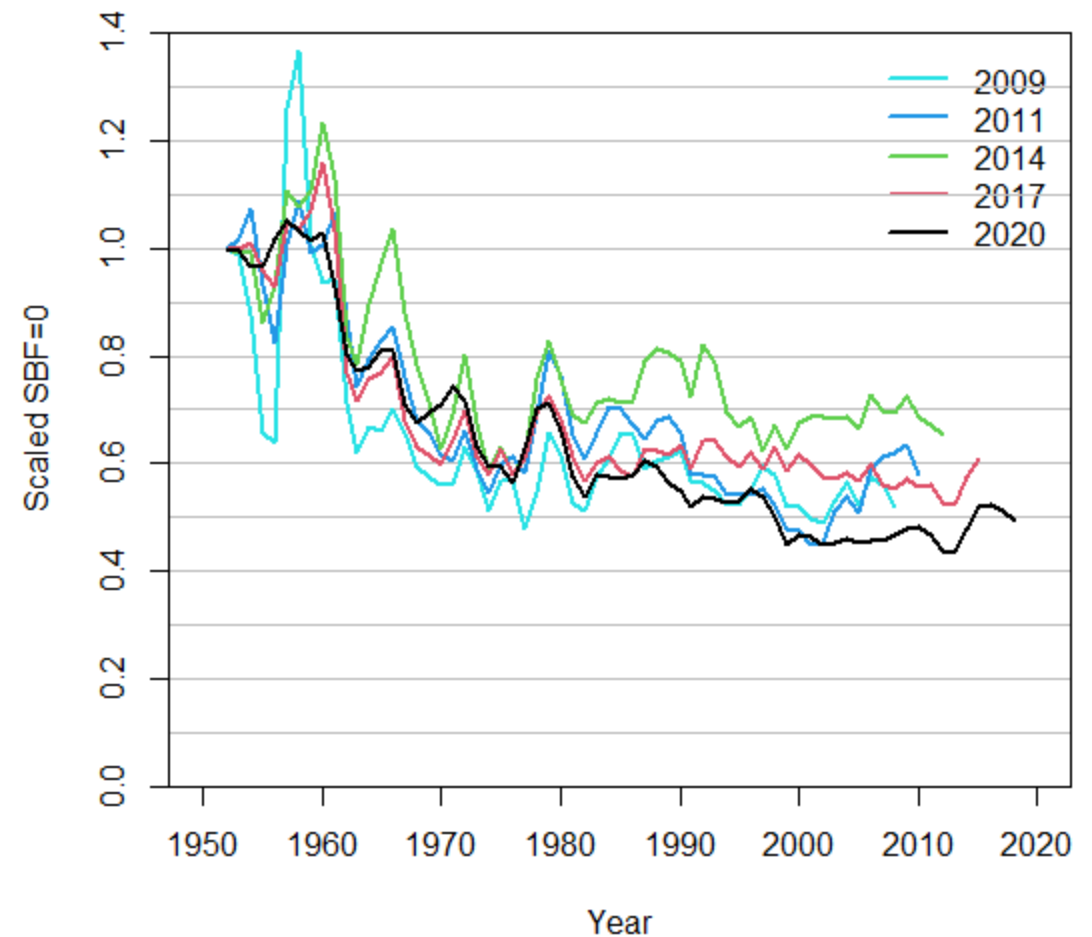


# EXPLOITED VS UNEXPLOITED (NORMALISED TO 1952)

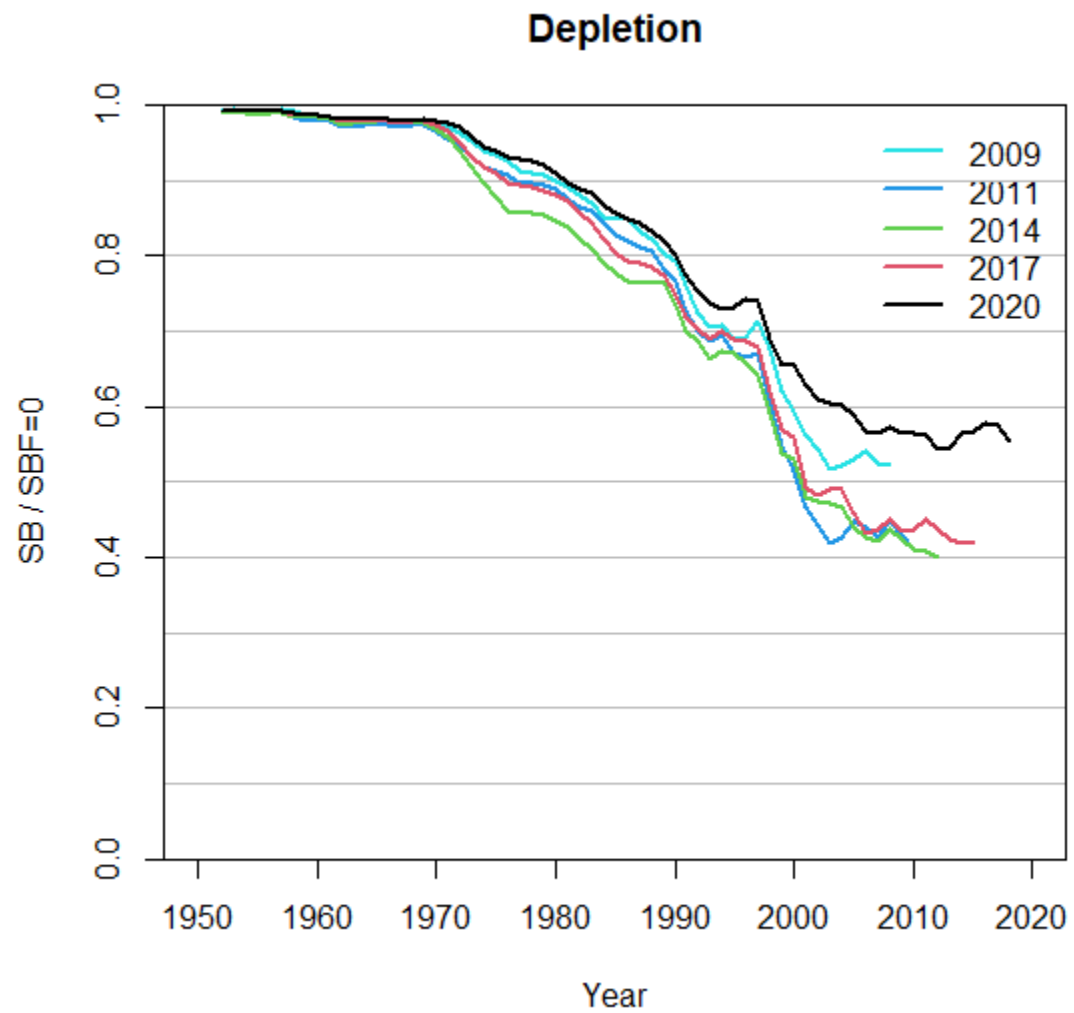
Relative Spawning Biomass



Relative Unfished Biomass

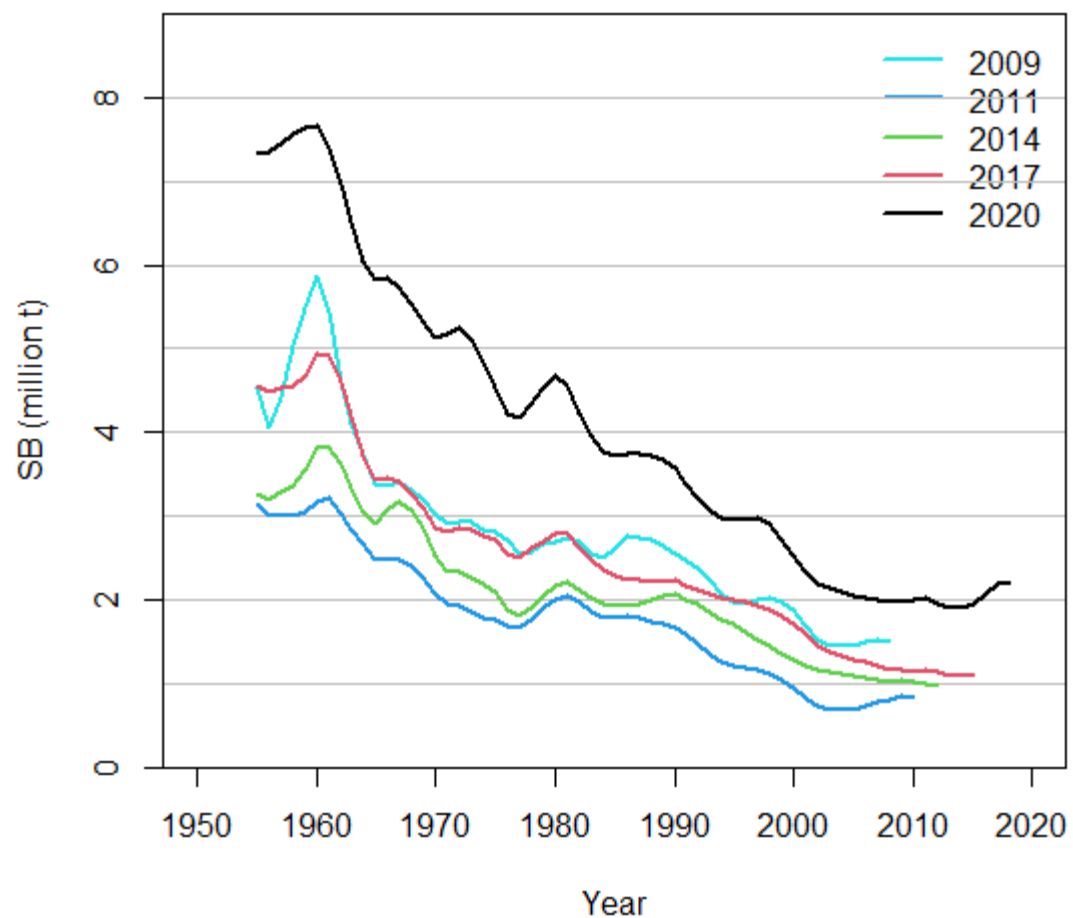


# STOCK STATUS (ASSESSMENTS 2009-2020, INSTANTANEOUS)

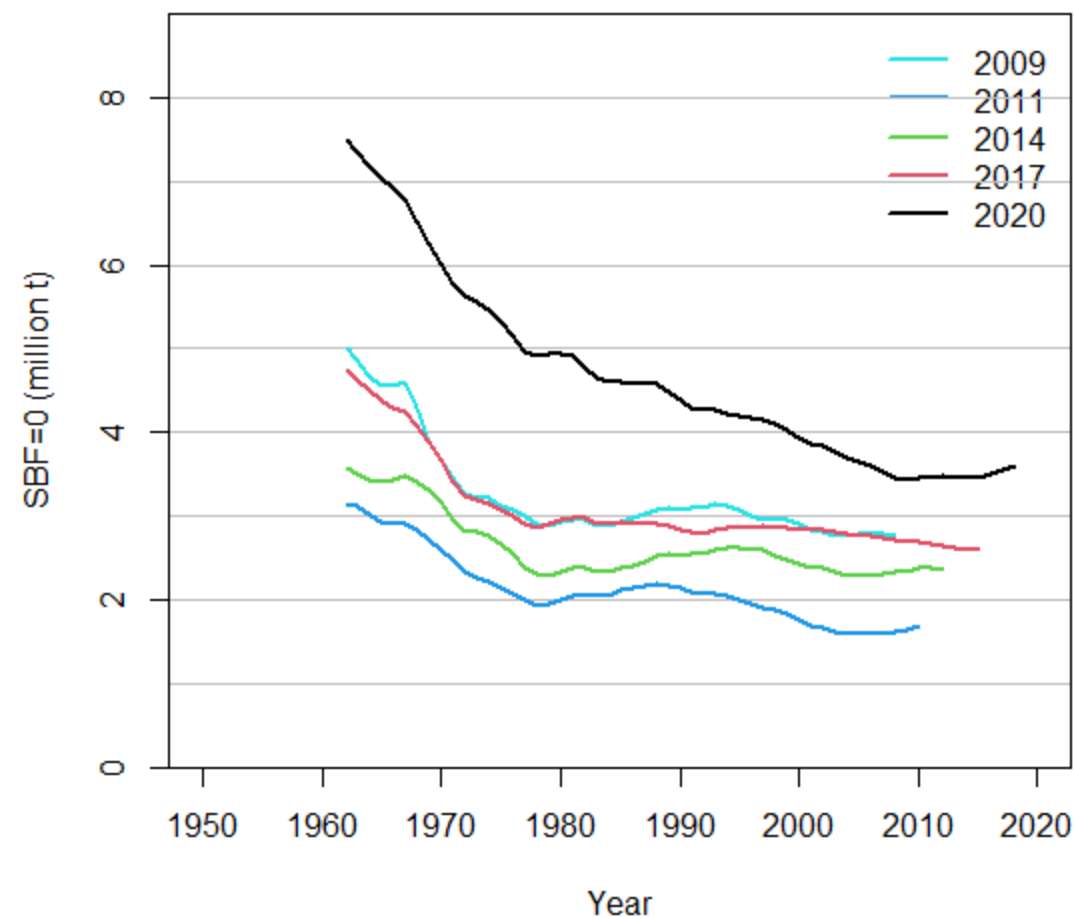


# EXPLOITED VS UNEXPLOITED (AVERAGED)

Spawning Biomass (recent)

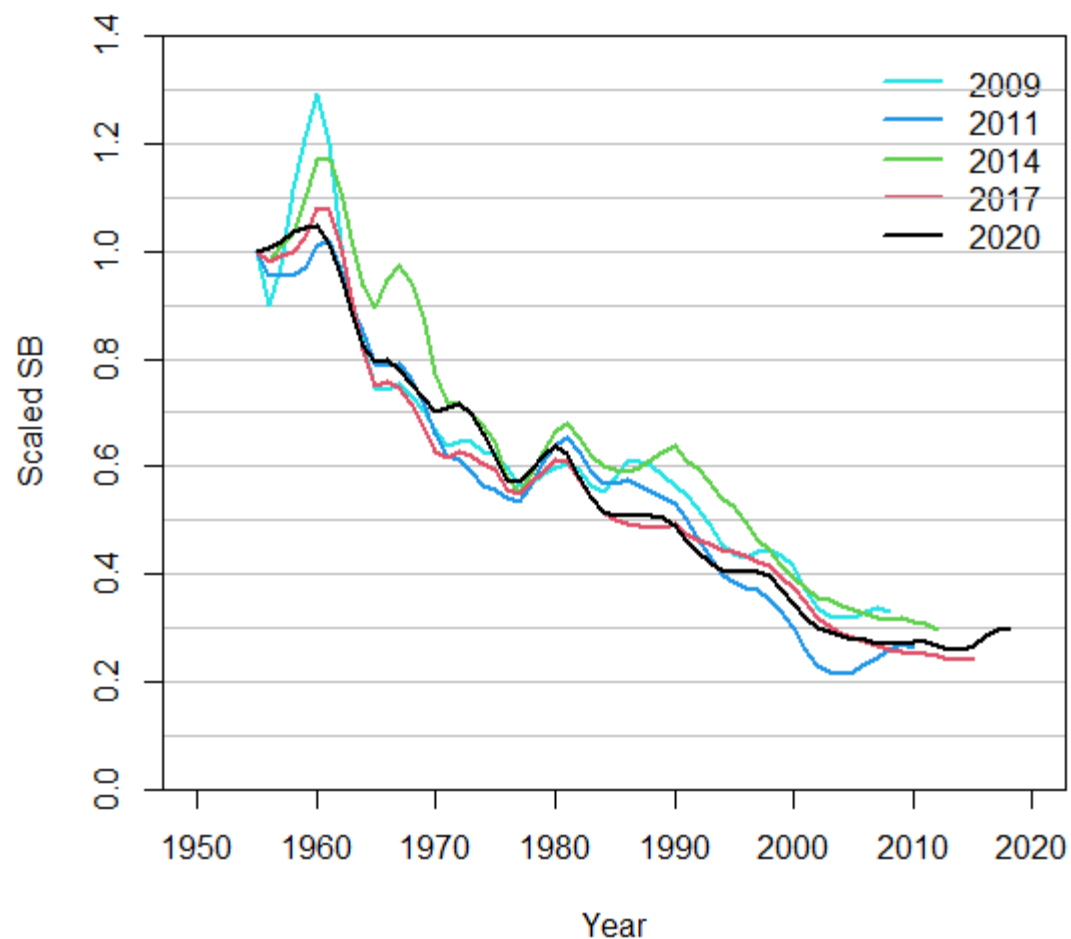


Unfished Biomass (10 years)

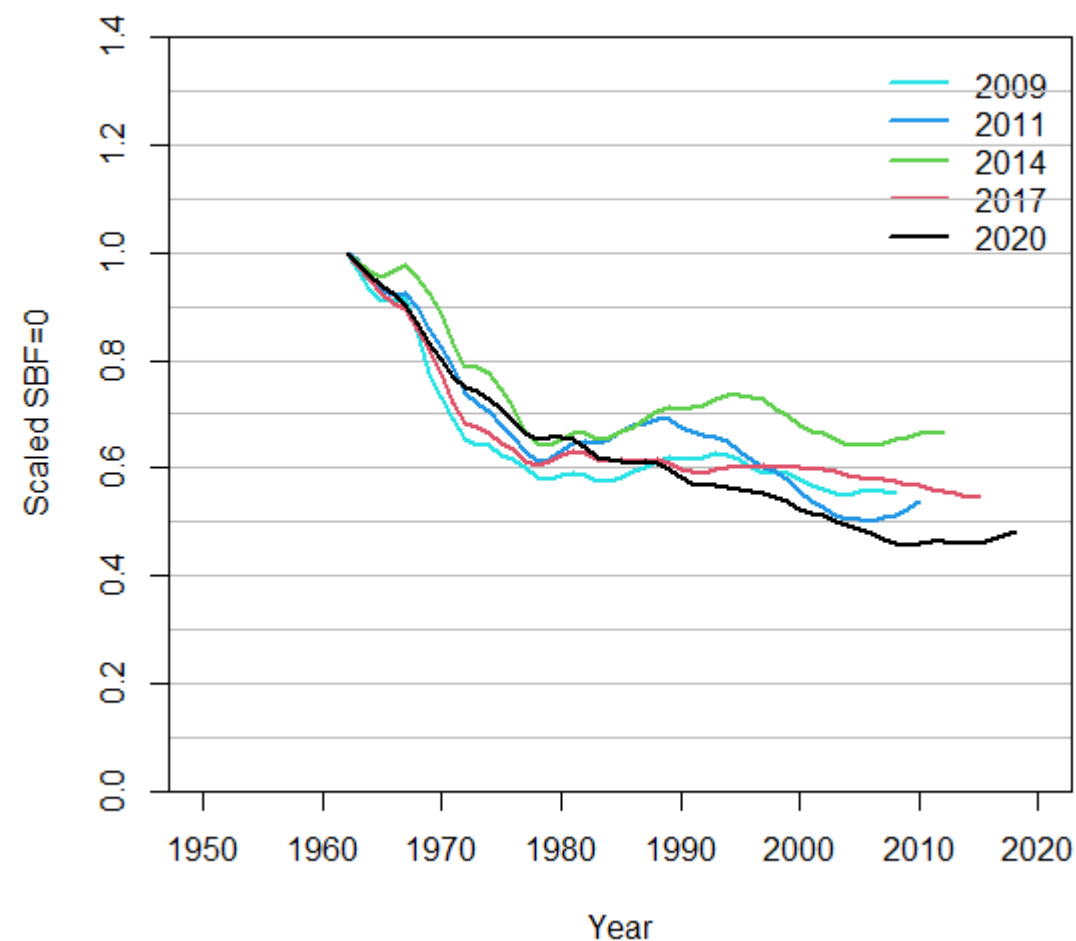


# EXPLOITED VS UNEXPLOITED (AVERAGED AND NORMALISED)

Relative Spawning Biomass (recent)



Relative Unfished Biomass (10 years)





# STOCK STATUS (ASSESSMENTS 2009-2020, AVERAGE)

