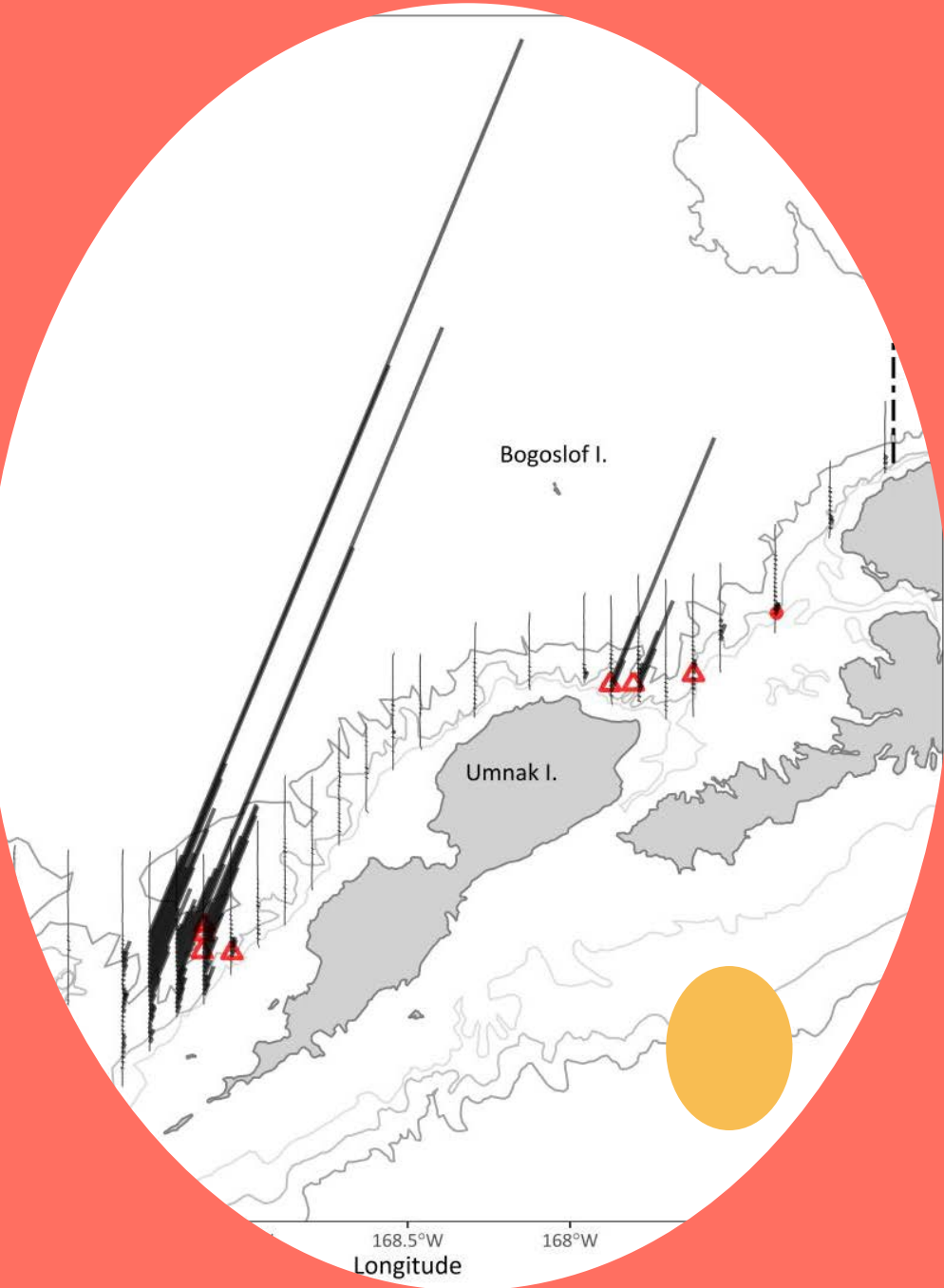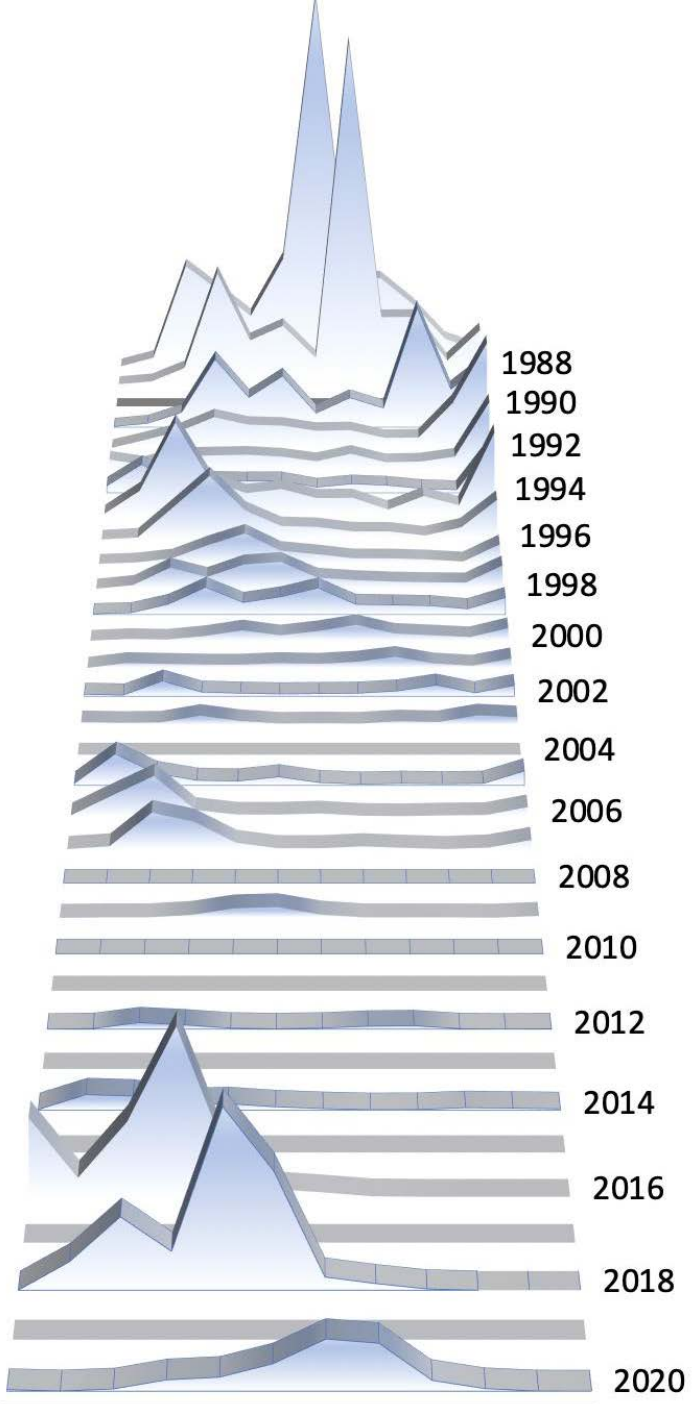# Bogoslof region pollock

James Ianelli, Denise McKelvey, and Steven Barbeaux

Nov 17, 2020
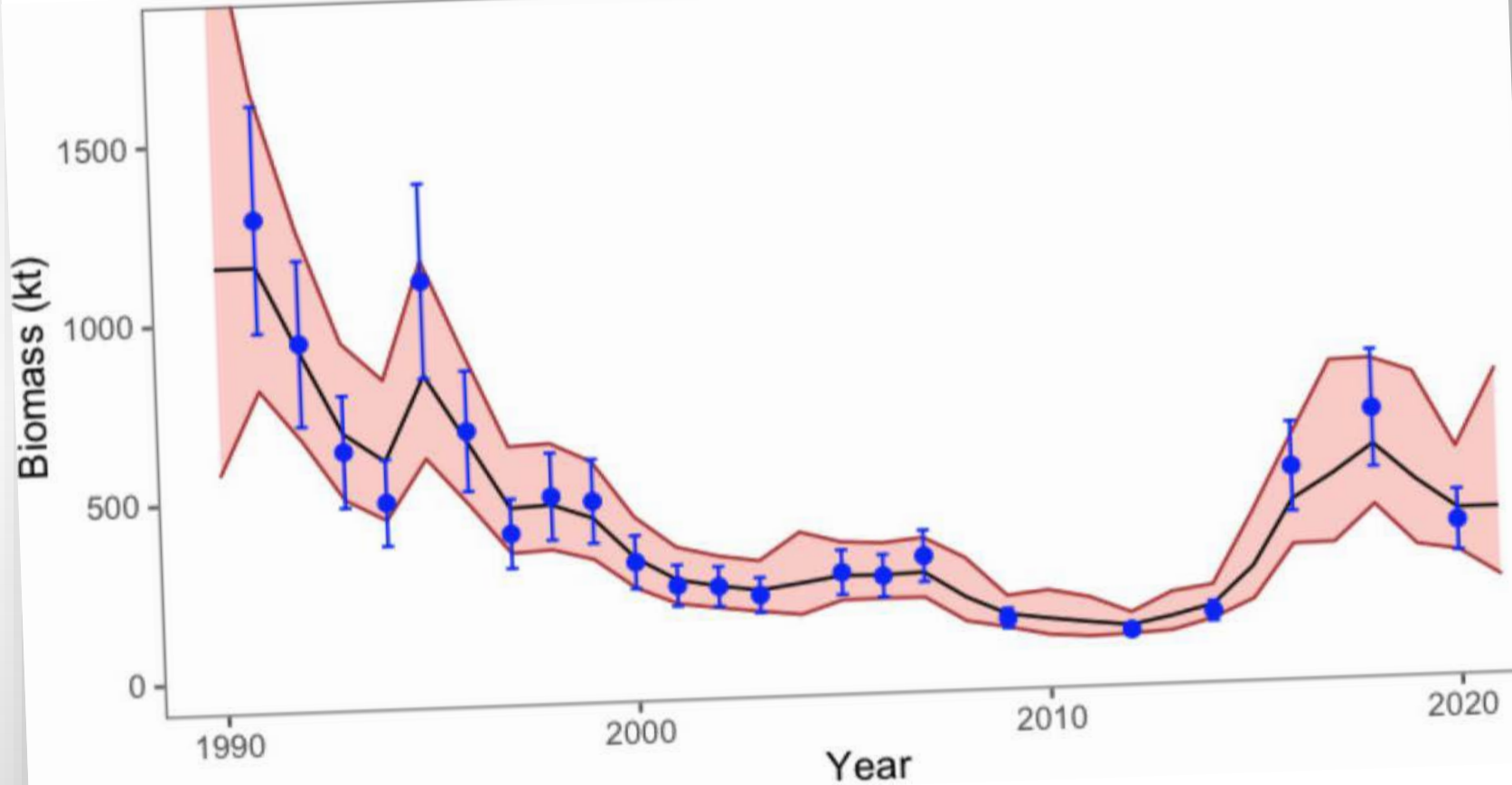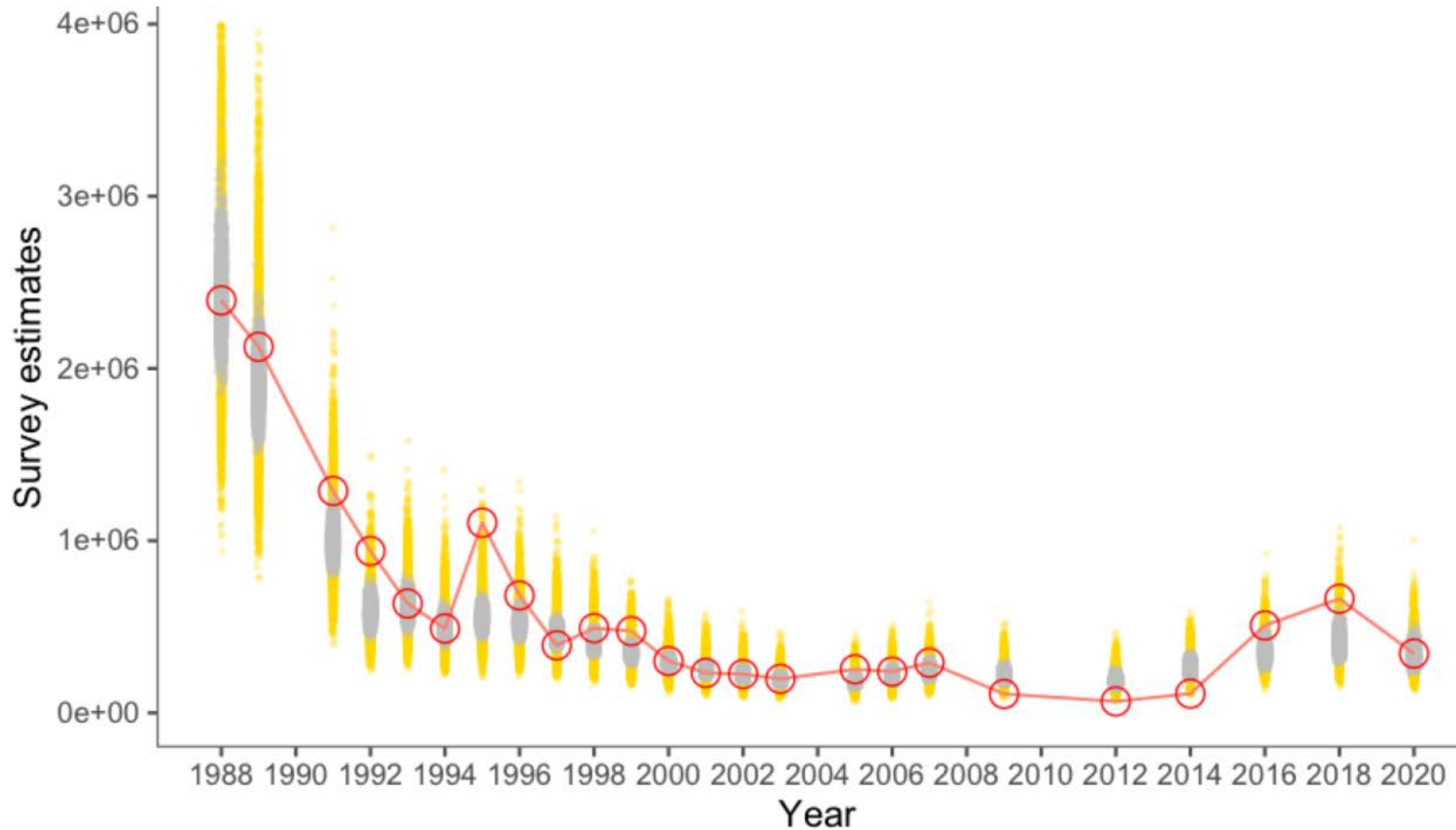
2020 Bogoslof survey

Bogoslof Island pollock survey age estimates
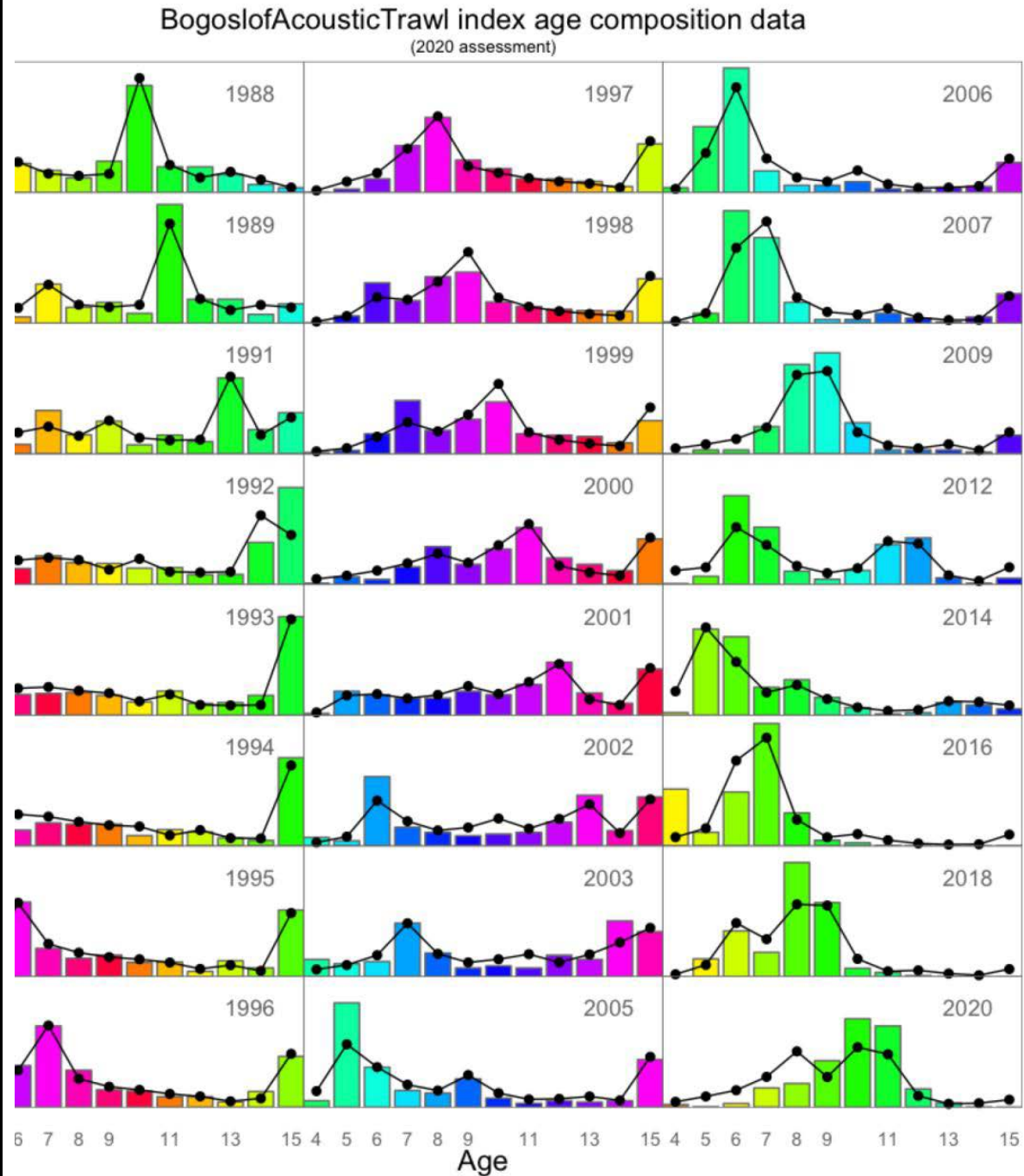
Random-effects smoother

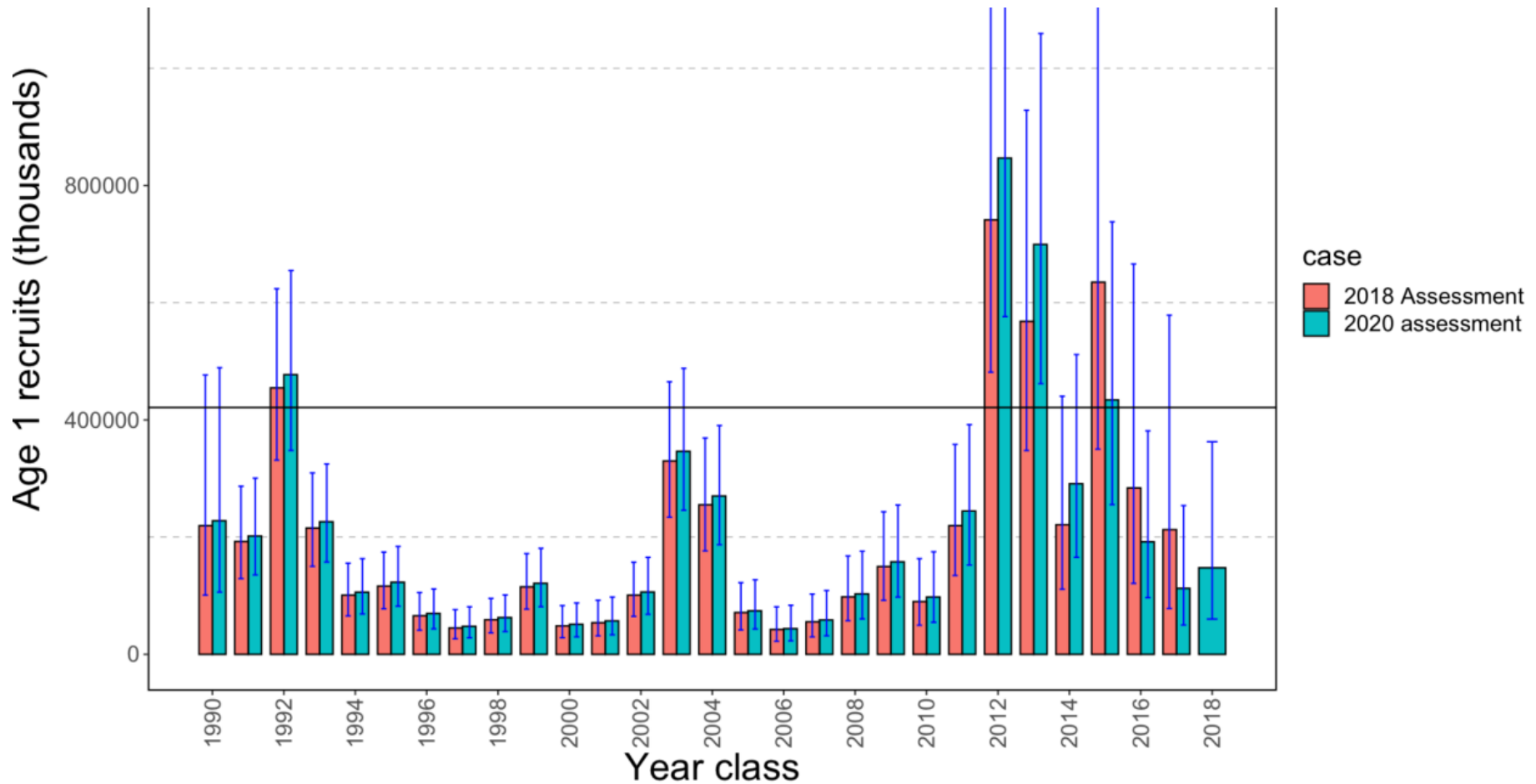# Posterior predictive distribution of model fit to indices

Bogoslof pollock

- Age-structured model analysis...fit to survey ages

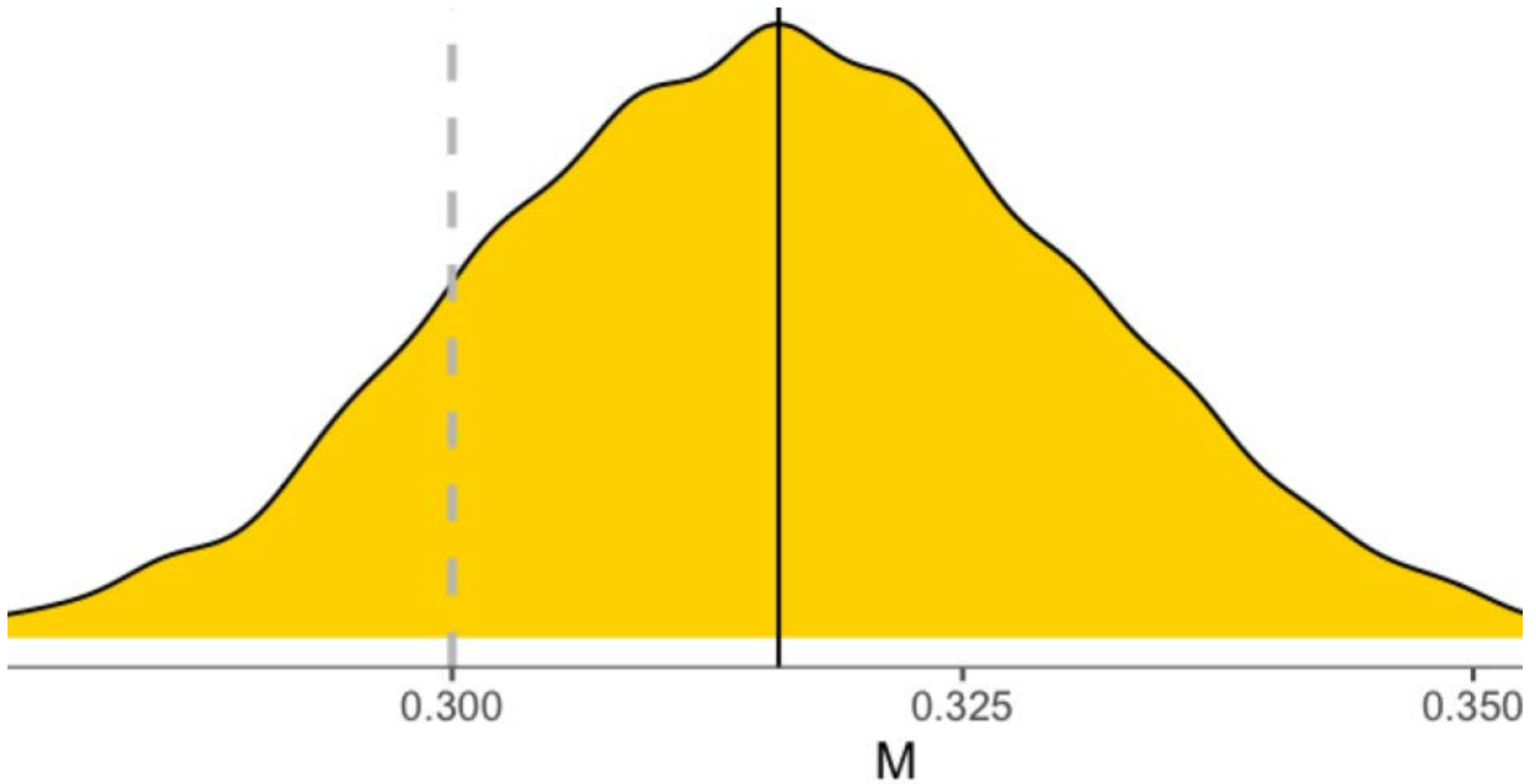BogoslofAcousticTrawl index age composition data
(2020 assessment)

Bogoslof pollock—age structured model recruitment estimates

Bogoslof pollock—age structured model SSB estimates

Bogoslof pollock—age structured model posterior distribution of natural mortality

Summary of Results

The ABC and OFL levels using Tier 5 values and assuming the random-effects model:

Quantity	As estimated or specified *last* year for:		As estimated or recommended *this* year for:	
	2020	2021	2021	2022
M (natural mortality rate)	0.3	0.3	0.3	0.3
Tier	5	5	5	5
Biomass (t)	610,267	610,267	378,262	378,262
F_{OFL}	0.300	0.300	0.300	0.300
$maxF_{ABC}$	0.225	0.225	0.225	0.225
F_{ABC}	0.225	0.225	0.225	0.225
OFL (t)	183,080	183,080	113,479	113,479
maxABC (t)	137,310	137,310	85,109	85,109
ABC (t)	137,310	137,310	85,109	85,109
Status	As determined *this* year for:		As determined *this* year for:	
	2018	2019	2019	2020
Overfishing	No	n/a	No	n/a