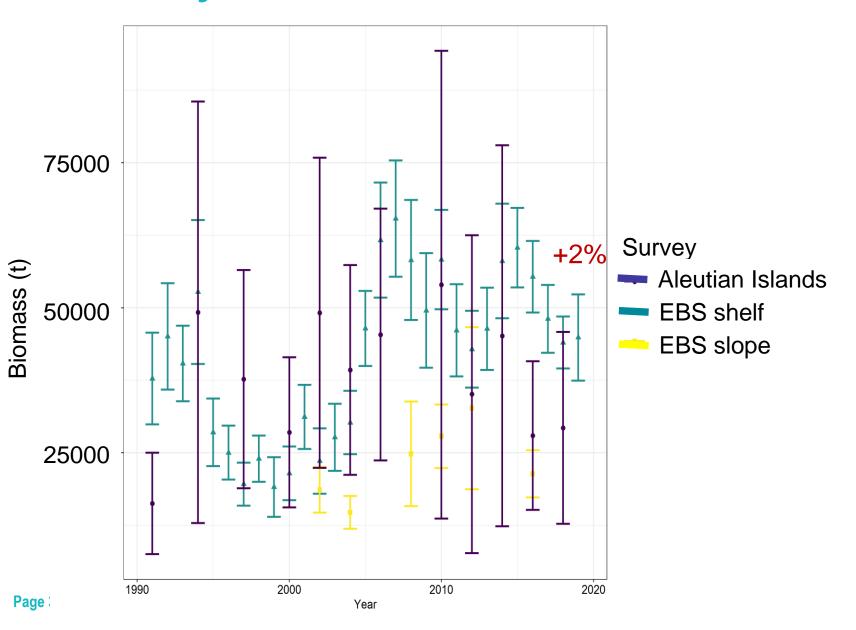


Assessment of the Kamchatka flounder stock in the Bering Sea and Aleutian Islands

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	As estimated or specified		As estimated or		
	last year for		recommended this year		Projections were
			for		done using the AFSC
Quantity	2019	2020	2020	2021	projection model
M (natural mortality rate)	0.11	0.11	0.11	0.11	
Tier	3	3	3	3	Updated catch:
Projected total (age 2+)	155,251	160,178	162,709	163,158	2018 - reduced to
biomass (t)	100,201	100,170	102,700	100,100	3,108 t from 4,327 t
Projected female spawning					
biomass (t)					2019 - reduced to
Projected	54,779	56,675	57,948	57,892	4,486 t from
B _{100%}	107,673	107,673	107,673	107,673	maxABC
B _{40%}	43,069	43,069	43,069	43,069	October 11 th
B _{35%}	37,685	37,685	37,685	37,685	catch expanded
F _{OFL}	0.108	0.108	0.108	0.108	by 1.0475
maxF _{ABC}	0.090	0.090	0.090	0.090	2020 recommended
F _{ABC}	0.090	0.090	0.090	0.090	2020 recommended
OFL (t)	10,965	11,260	11,495	11,472	ABC is: 6.2% less than the
maxABC (t)	9,260	9,509	9,708	9,688	2019 specified ABC
ABC (t)	9,260	9,509	9,708	9,688	Z017 Specifica 1120
	As determined <i>last</i> year		As determined <i>thi</i> s year		2% higher than the
	for:		for:		projected 2020 ABC
Status	2017	2018	2018	2019	in 2019
Overfishing	No	n/a	No	n/a	
Overfished	n/a	No	n/a	No	
Approaching overfished	n/a	No	n/a	No	

Survey biomass estimates



Catch-biomass ratios

