

C1 SCALLOP PLAN TEAM REPORT

JIM ARMSTRONG JUNE 1, 2020



SCALLOP PLAN TEAM

Jim Armstrong	(Co-Chair, Council Staff)
<i>Vacant</i>	<i>(Co-Chair)</i>
Ryan Burt	(ADF&G Kodiak)
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Scott Miller	(NMFS Juneau)
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John Olson	(NMFS Anchorage)
Jie Zheng	(ADF&G Juneau)

Special thanks to ...

Ben Williams (NMFS ABL)
Kendall Henry (ADF&G Juneau)
Tyler Jackson (ADF&G Kodiak)
Natura Williamson (ADF&G Kodiak)



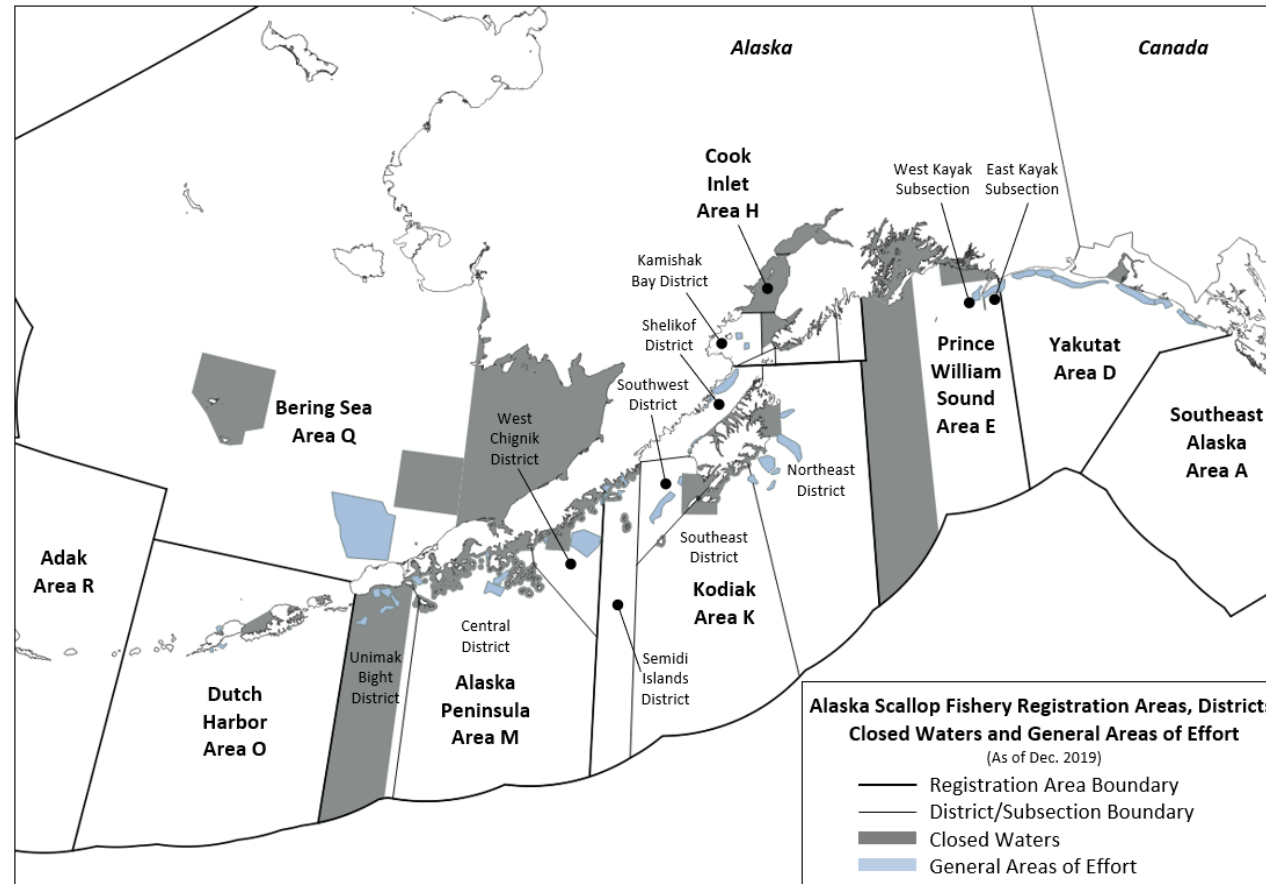
ORGANIZATION



- Fishery Overview
- 2019 Assessment
- Regional Performance
- Other Issues



WEATHERVANE SCALLOP FISHING AREAS



WEATHERVANE SCALLOP FISHERY OVERVIEW

Federal Waters

- 9 Federal LLPs
 - 7 LLPs permitted to deploy two 15 ft dredges
 - 2 vessels permitted to deploy two 10 ft dredges
 - Cook Inlet: single 6 ft dredge



State waters

- Open access state water fishery beginning in 2014
- State waters closed to scallop fishing in many places
- Known scallop beds in state waters not closed to scallop fishing: Yakutat District, Kayak Island, Kodiak Shelikof District, and Dutch Harbor



MSY, OY, AND OVERFISHING DEFINITION

- MSY = 1.284 million lb scallop meats
- MSY definition based on average 1990-1997 harvest with 1995 excluded
- In absence of spawning biomass estimate the OFL defaults to MSY
- $ABC_{MAX} = 90\%$ of OFL
- SPT recommendation for ABC = 1.156 Mlb (90% of OFL) for 2020/21

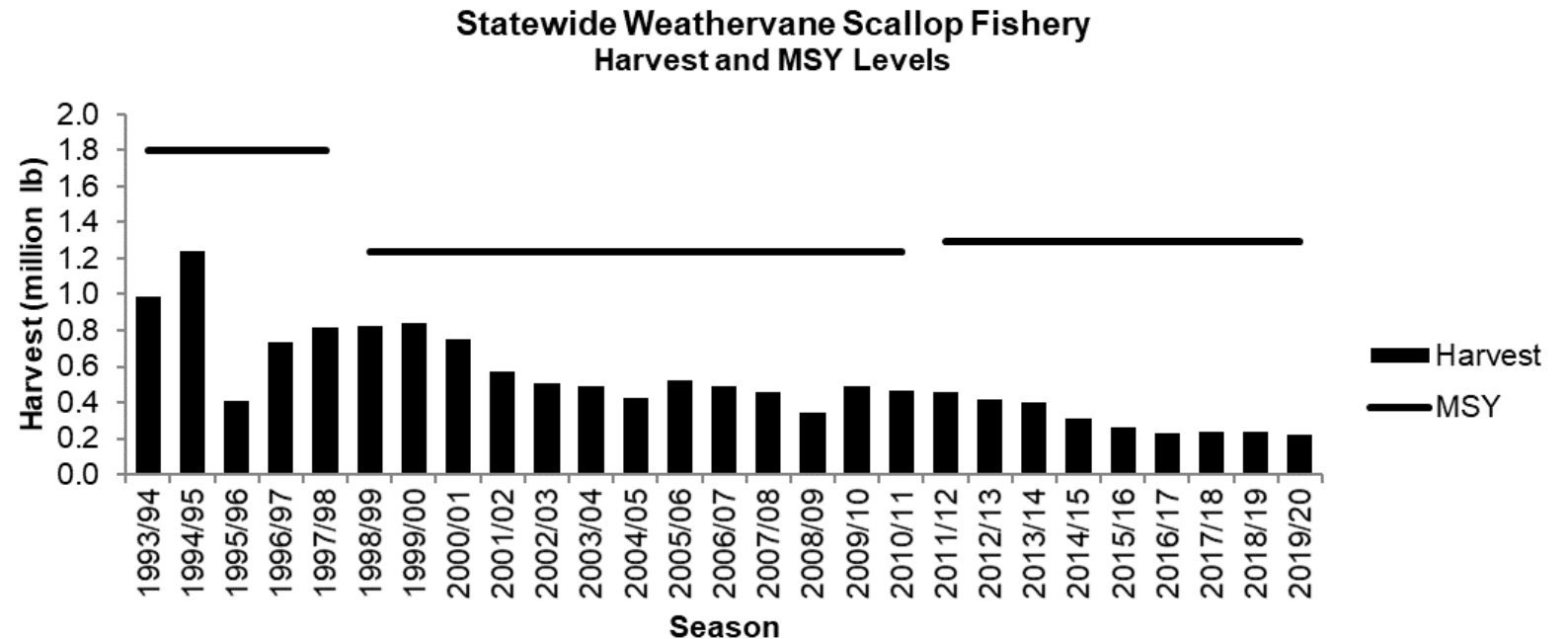


Figure 2-1 Statewide scallop harvest (lb shucked scallop meats) and MSY levels from FMP



2019 ASSESSMENT RESULTS

- Surveyed Yakutat, Prince William Sound, Cook Inlet

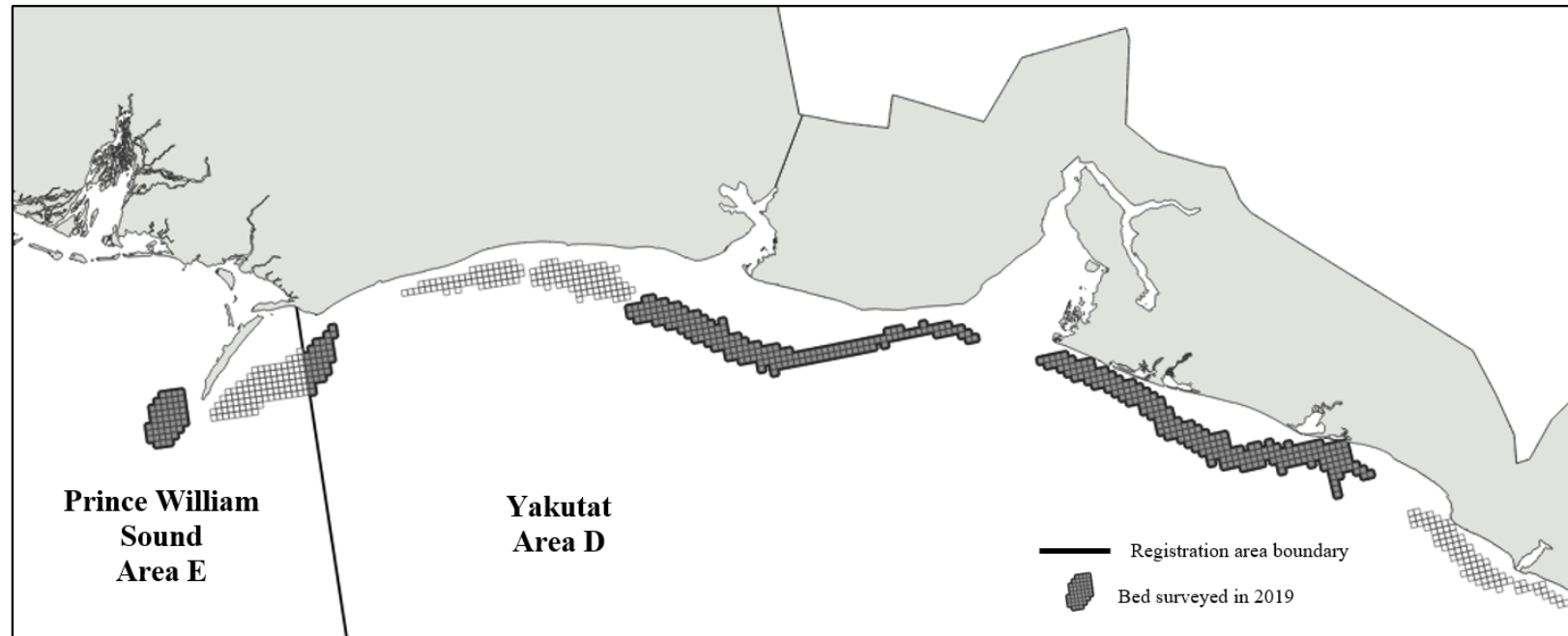


Figure 2-2 Location of scallop beds in ADF&G statewide scallop dredge survey areas. Dark outlines indicate beds surveyed in 2019.



ABUNDANCE ESTIMATES

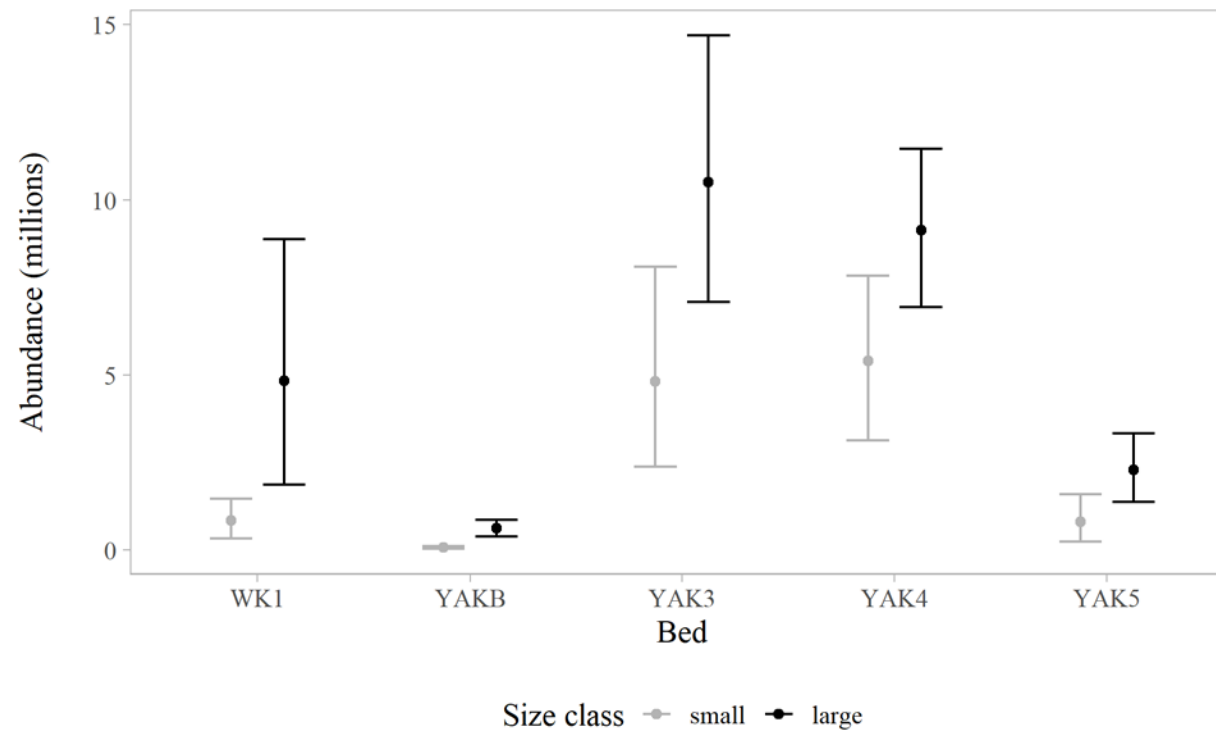


Figure 2-6 Estimates of scallop bed abundance based on 2019 statewide scallop dredge survey data. Error bars represent approximate 95% confidence intervals. Large scallops are those with shell height ≥ 100 mm.



ABUNDANCE ESTIMATES

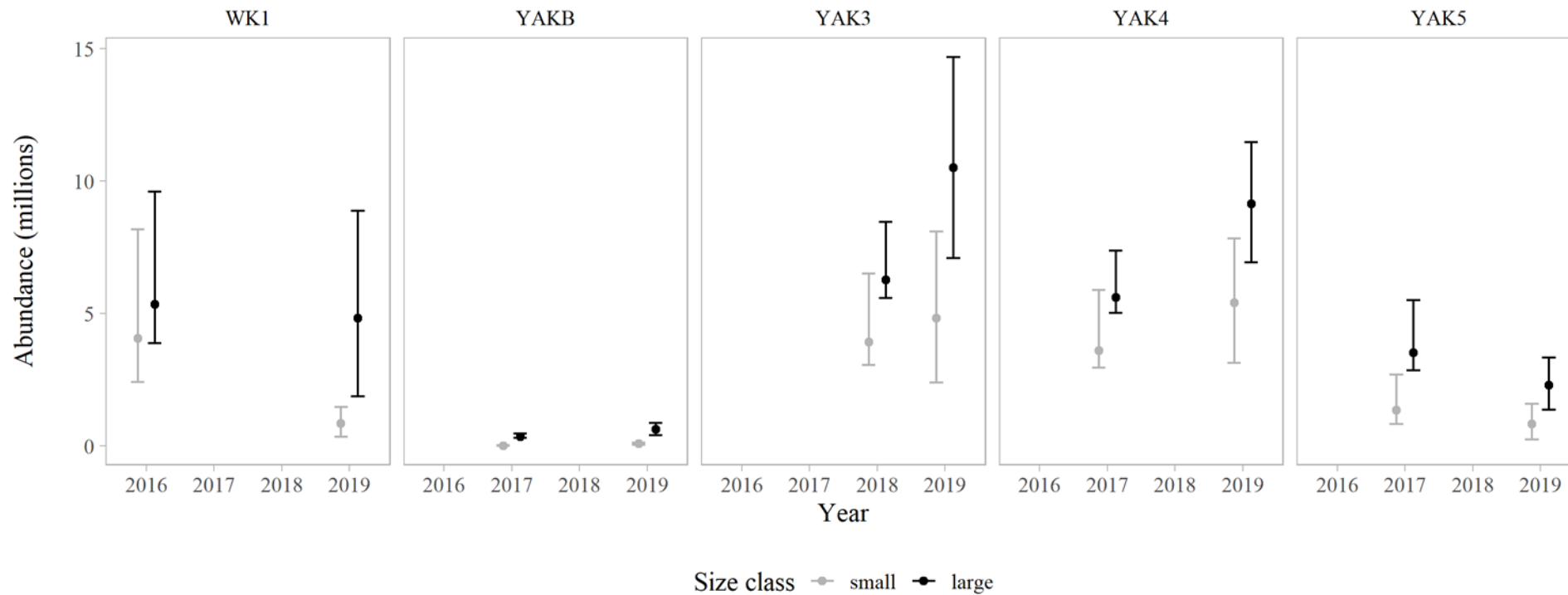


Figure 2-11 Comparisons of 2016 - 2019 survey abundance estimates for beds surveyed in 2019.



BIOMASS ESTIMATES

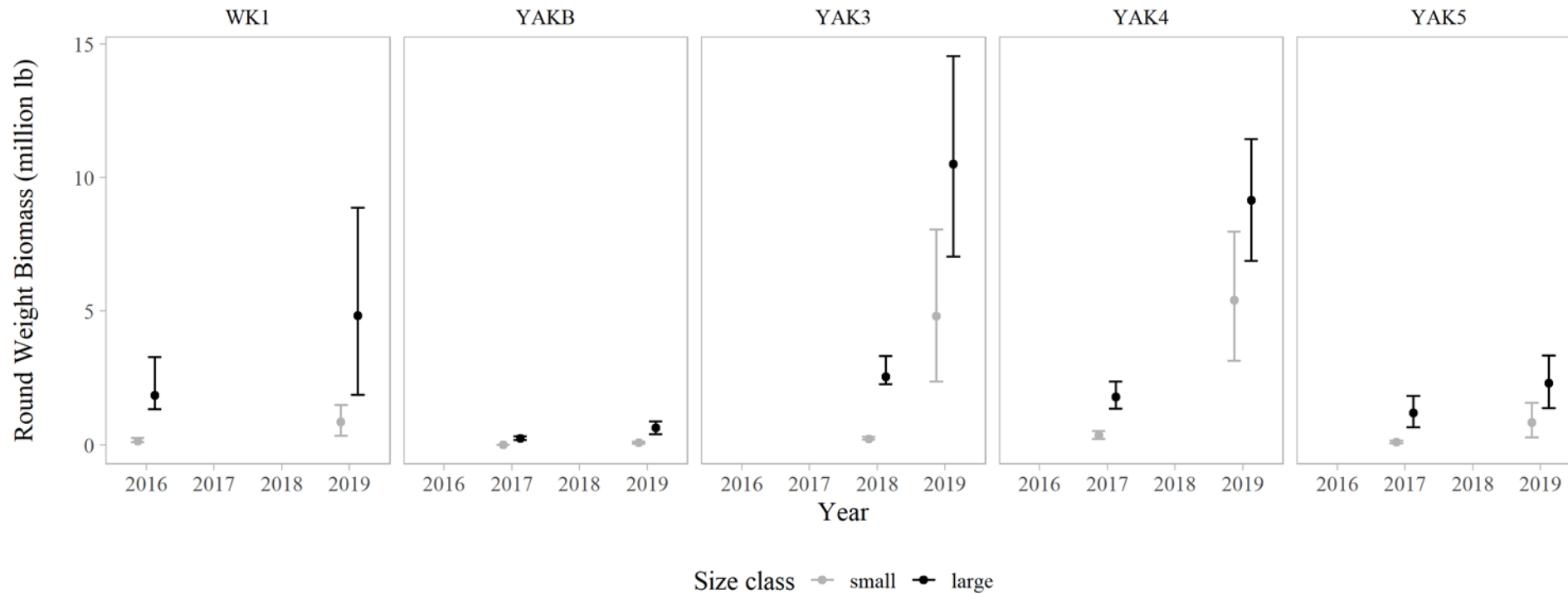


Figure 2-12 Comparisons of 2016 - 2019 survey biomass estimates for beds surveyed in 2019.



REGIONAL FISHERY PERFORMANCE

Registration Area	District/Subsection	GHL (lb meat)	Retained catch (lb meat)	CPUE (lb meat per dredge hr)	Est scallop discard mortality (lb meat) ^a
Yakutat		145,000	145,083	64	3,478
Prince William Sound	West Kayak Island Subsection	6,300	6,420	48	424
Kodiak	Northeast District	15,000	15,210	58	1,111
	Shelikof District	25,000	25,020	53	3,310
	Southwest District	30,000	30,000	66	2
	Southeast District	15,000	470	8	2,077
Alaska Peninsula	Central District	7,500	0		4
	Unimak Bight District ^b	15,000	8,905	34	690
Dutch Harbor		5,000	325	14	2
Bering Sea		7,500	7,540	21	68
	Statewide Totals	271,300	238,973	56	11,166



Table 4-1 GHLs and summary statistics from 2018/19 Alaska weathervane scallop fishery.



TANNER CRAB BYCATCH

Registration Area	District/Subsection	Tanner crab		
		Bycatch cap	Est number crab	Est weight (lb) ^a
Yakutat		NE	719	20
Prince William Sound	West Kayak Island Subsection	1,600	9	0
Kodiak	Northeast District	9,000	7,242	1,167
	Shelikof District	12,500	3,115	476
	Southwest District	18,000	1,501	311
	Southeast District	7,500	2,163	1,008
Alaska Peninsula	Central District	3,750	305	156
	Unimak Bight District	7,500	3,323	603
Dutch Harbor		5,000	611	135
Bering Sea		65,000	15,007	8,955
		Snow and C. hybrid crab		
Bering Sea		300,000	2,097	2,494
	Statewide Total	429,850	36,092	15,325

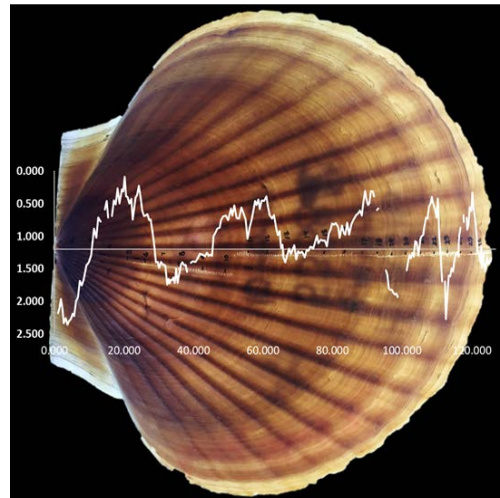
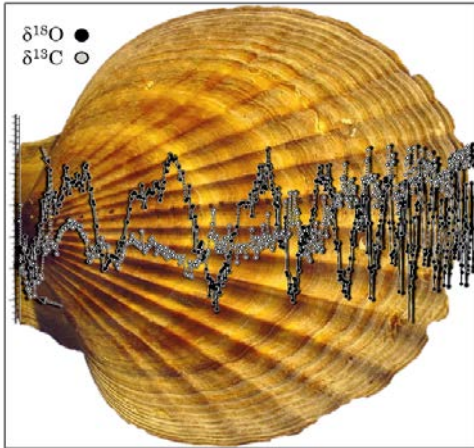


Table 3 4 Bycatch of Tanner crab in the 2018/19 Alaska weathervane scallop fishery.



AGE VALIDATION WORK - KEVIN MCNEEL

$\delta^{18}\text{O}$ & $\delta^{13}\text{C}$



Growth



OTHER ISSUES

- Socioeconomic - Scott Miller
- CPUE Standardization - Tyler Jackson
- Scallop parasite studies - Ryan Burt
- Scallop EFH - John Olson
- Research Priorities - Armstrong
- 2021 meeting in Anchorage



QUESTIONS?

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