

# ROUGHEYE/BLACKSPOTTED ROCKFISH

GROUND FISH PLAN TEAM, NOV 2020

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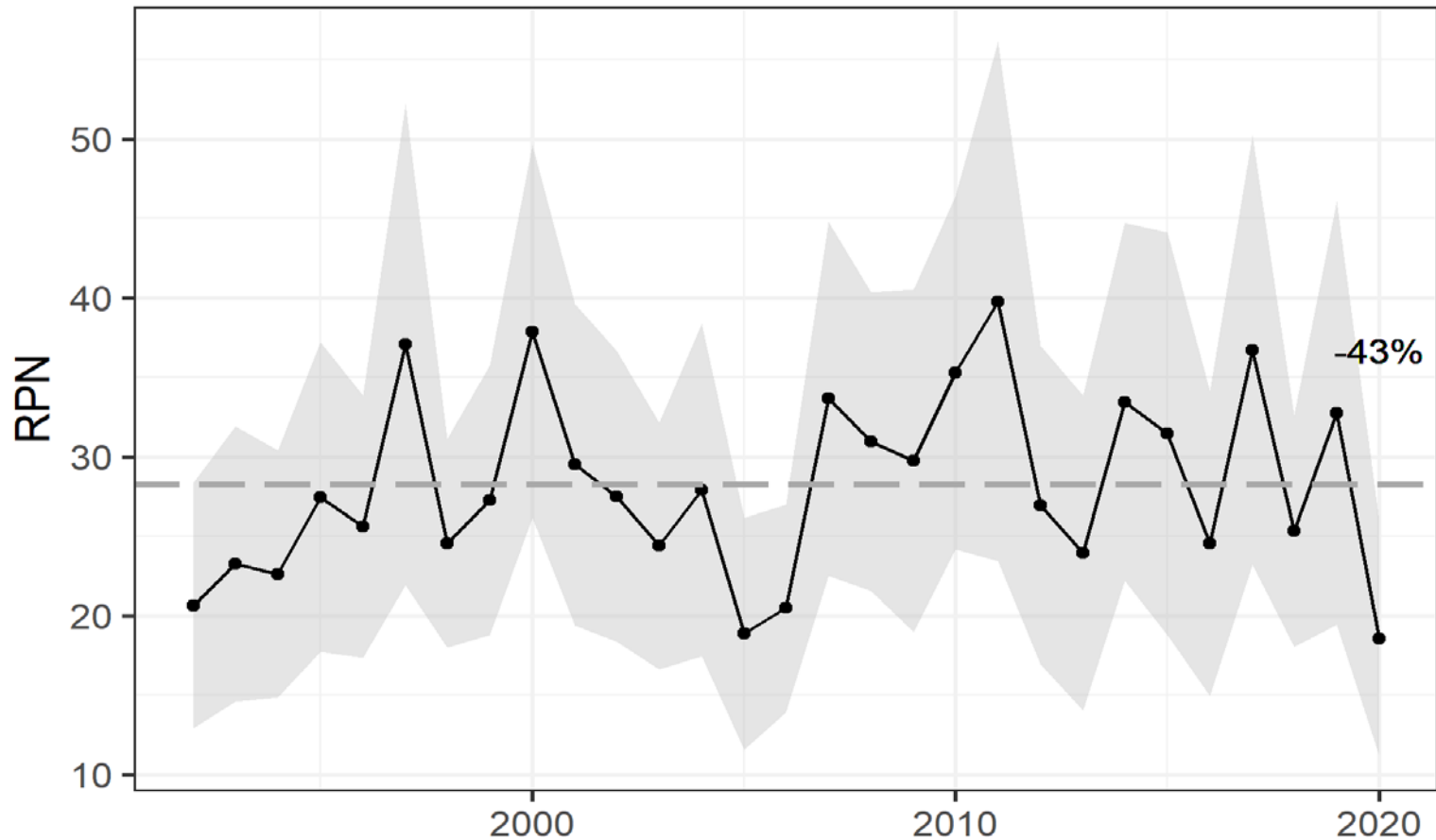


## PARTIAL ASSESSMENT (FULL IN ODD YEARS)

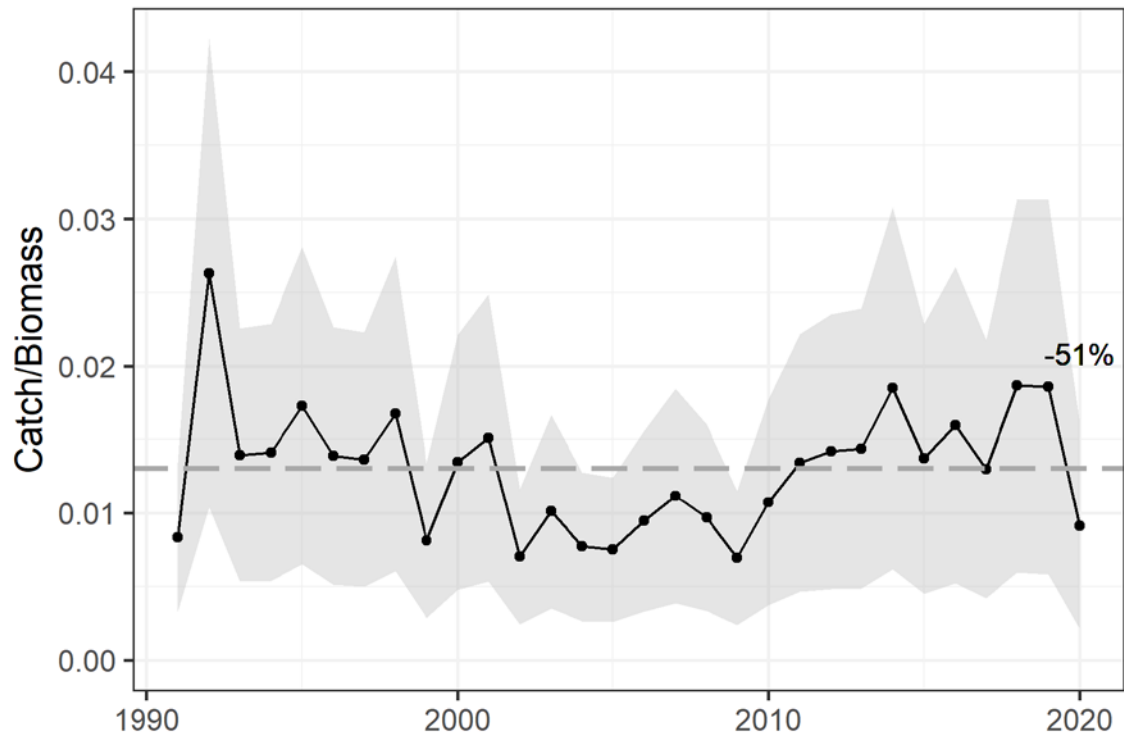
### TIER 3

- Projection model
- Recommendations for 2021:
  - OFL 1,456 t
  - ABC 1,212 t (<1% increase from 2020)
  - 2019 catch: 749 t, projected 2020 catch: 368 t (Oct. 10, 2020)
  - Catch has averaged 48% of ABC since 2017

# AFSC LONGLINE SURVEY RELATIVE POPULATION NUMBER (RPN)



# CATCH/BIOMASS



Range = 0.007-0.026  
Mean = 0.013  
2020 estimate = 0.009



Quantity	As estimated or <i>specified last year for:</i>		As estimated or <i>recommended this year for:*</i>	
	2020	2021	2021	2022
<i>M</i> (natural mortality rate)	0.036	0.036	0.036	0.036
Tier	3a	3a	3a	3a
Projected total (ages 3+) biomass (t)	40,336	40,393	40,432	40,454
Projected female spawning biomass (t)	12,518	12,530	12,540	12,563
<i>B</i> <sub>100%</sub>	20,658	20,658	20,658	20,658
<i>B</i> <sub>40%</sub>	8,263	8,263	8,263	8,263
<i>B</i> <sub>35%</sub>	7,230	7,230	7,230	7,230
<i>F</i> <sub>OFL</sub>	0.048	0.048	0.048	0.048
<i>maxF</i> <sub>ABC</sub>	0.040	0.040	0.040	0.040
<i>F</i> <sub>ABC</sub>	0.040	0.040	0.040	0.040
OFL (t)	1,452	1,455	<b>1,456</b>	1,467
maxABC (t)	1,209	1,211	1,212	1,221
ABC (t)	1,209	1,211	<b>1,212</b>	1,221
Status	As determined <i>last year for:</i>		As determined <i>this year for:</i>	
	2018	2019	2019	2020
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

2019 catch: **749 t**, projected 2020 catch: **368 t** (Oct. 10, 2020)

Catch has averaged **48%** of ABC since 2017



# APPORTIONMENT

Method	Area Allocation		Western GOA	Central GOA	Eastern GOA	Total
Two Survey Random Effects	2021	Area ABC (t)	13.88%	37.61%	48.51%	100%
		OFL (t)	<b>168</b>	<b>456</b>	<b>588</b>	<b>1,212</b>
	2022	Area ABC (t)				<b>1,456</b>
		OFL (t)	<b>169</b>	<b>459</b>	<b>592</b>	<b>1,221</b>
Three Survey Weighted Average	2021	Area ABC (t)	6.63%	55.70%	37.67%	100%
		OFL (t)	80	675	457	1,212
	2022	Area ABC (t)				1,456
		OFL (t)	81	680	460	1,221
		OFL (t)				1,467



# QUESTIONS



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