



**NOAA  
FISHERIES**

**Alaska Region**

# GOA Inseason Management Report

**December 2021**

Catch data are through November 12, 2021

Annual Inseason management reports can be found at:

<https://www.fisheries.noaa.gov/resource/document/alaska-inseason-management-annual-reports-north-pacific-fishery-management>

Catch reports can be found at:

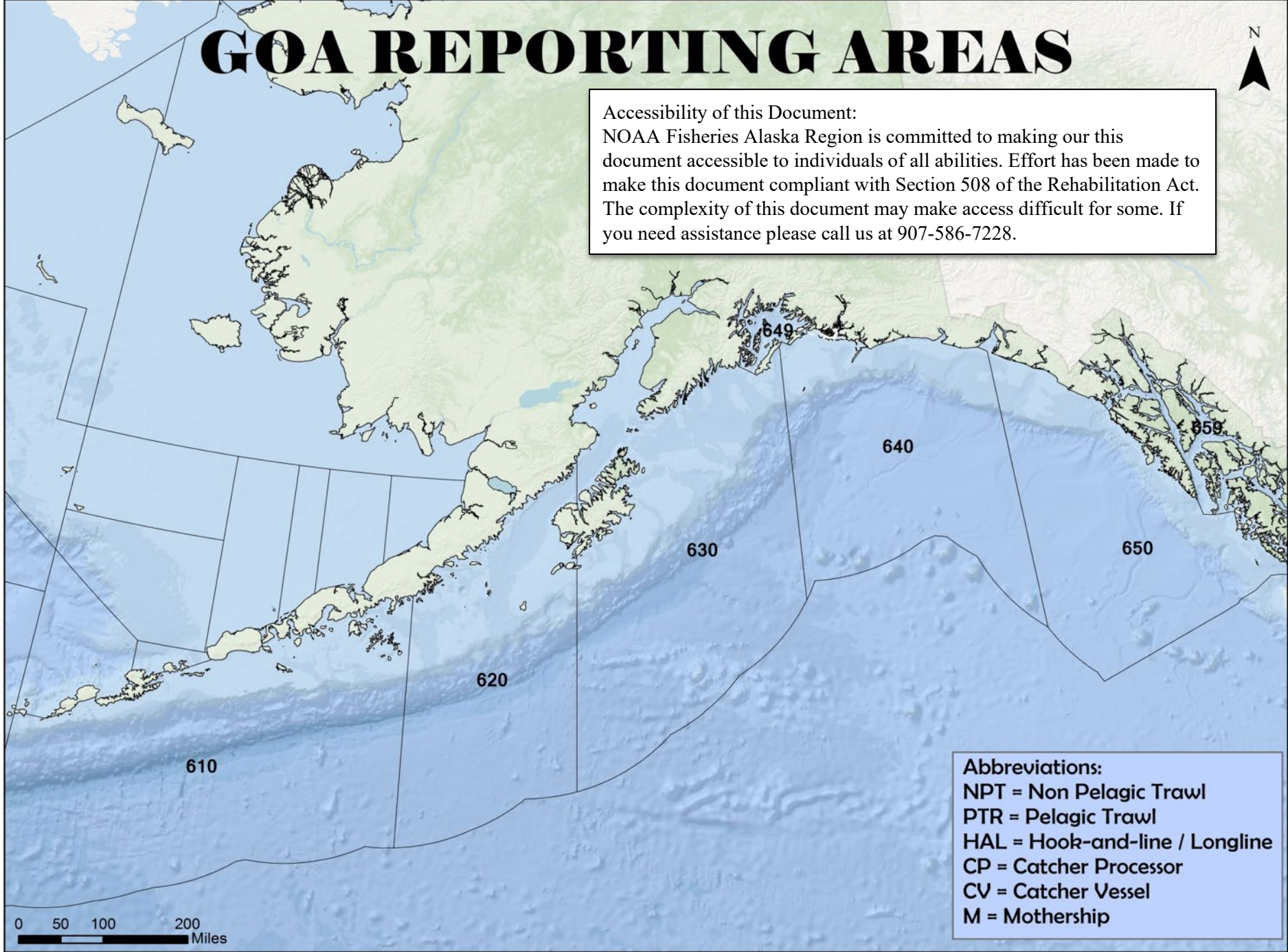
<https://www.fisheries.noaa.gov/alaska/commercial-fishing/fisheries-catch-and-landings-reports>

# GOA REPORTING AREAS



## Accessibility of this Document:

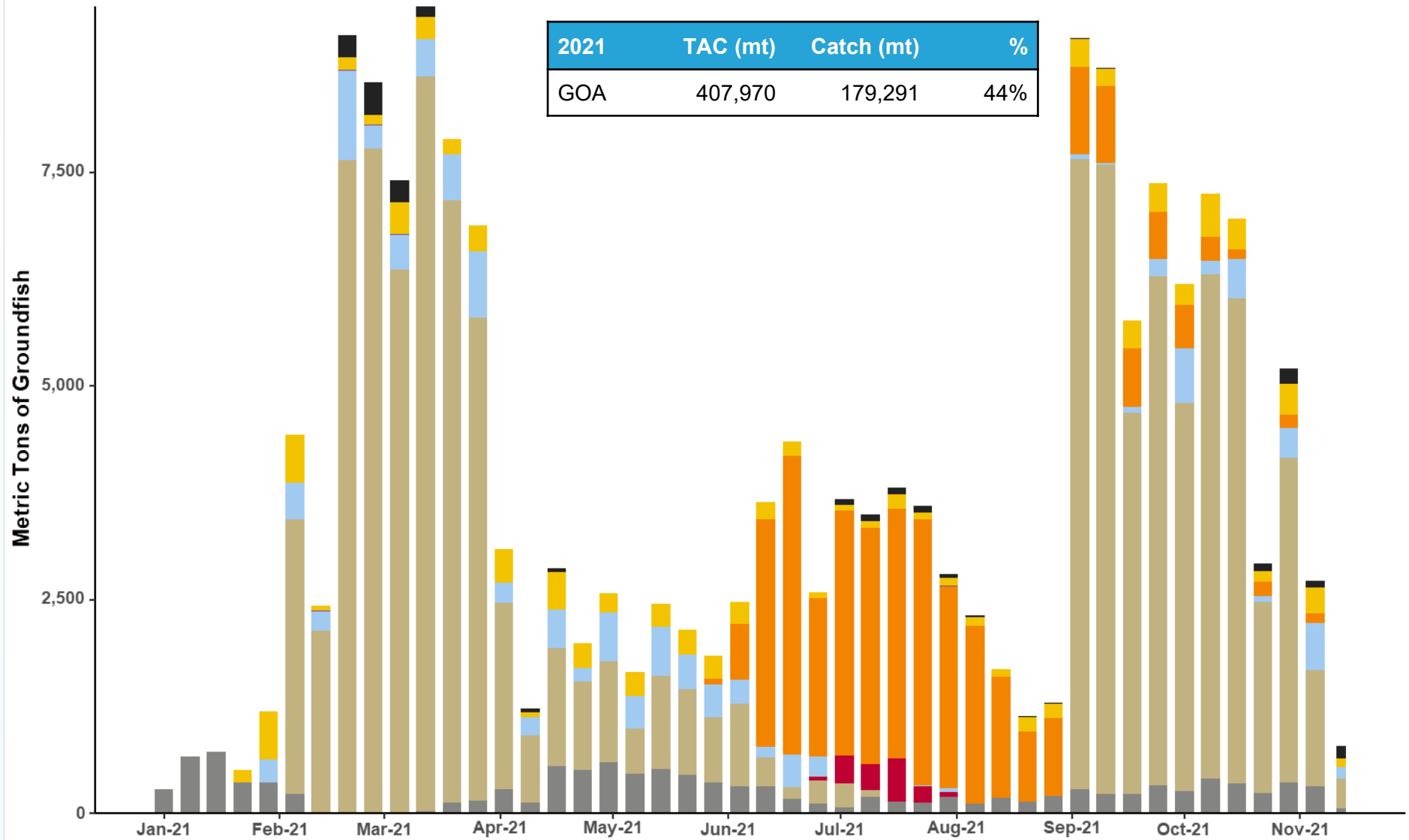
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# 2021 GOA Total Groundfish Catch by Gear and Sector



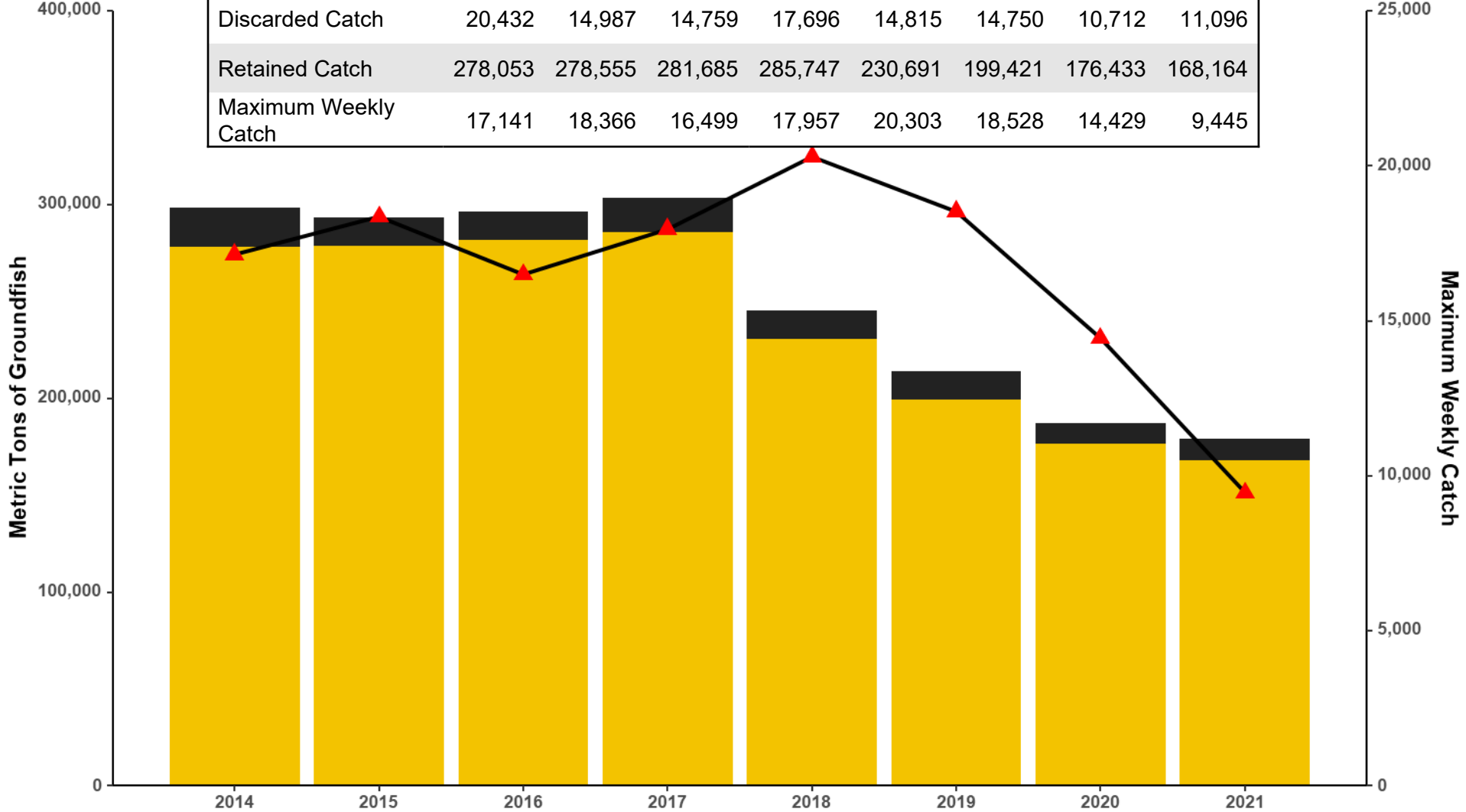
2021	TAC (mt)	Catch (mt)	%
GOA	407,970	179,291	44%



# GOA Total Groundfish Catch and Maximum Weekly Harvest

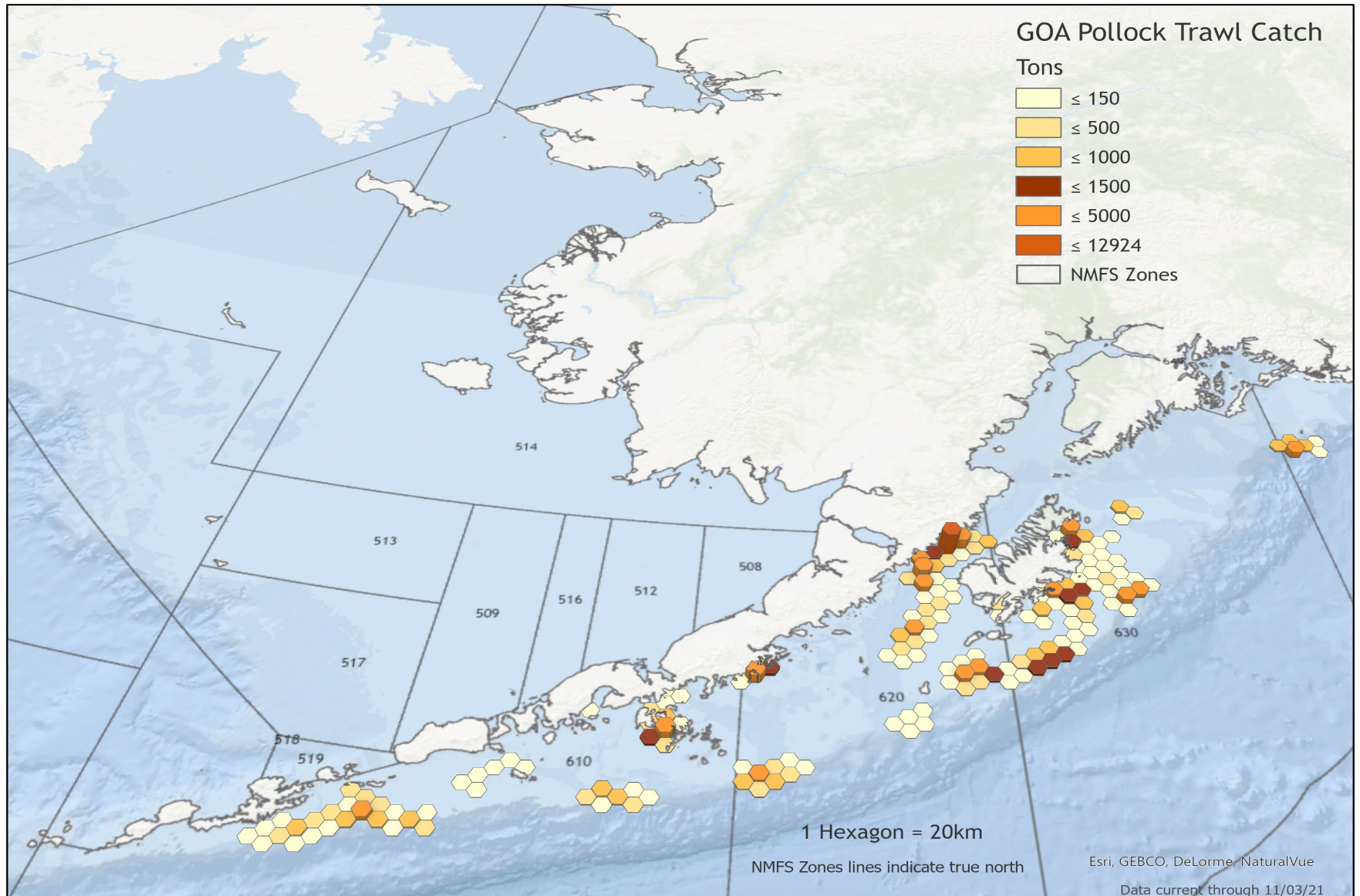
Discarded Catch
  Retained Catch
  Maximum Weekly Catch

Catch	2014	2015	2016	2017	2018	2019	2020	2021
Discarded Catch	20,432	14,987	14,759	17,696	14,815	14,750	10,712	11,096
Retained Catch	278,053	278,555	281,685	285,747	230,691	199,421	176,433	168,164
Maximum Weekly Catch	17,141	18,366	16,499	17,957	20,303	18,528	14,429	9,445



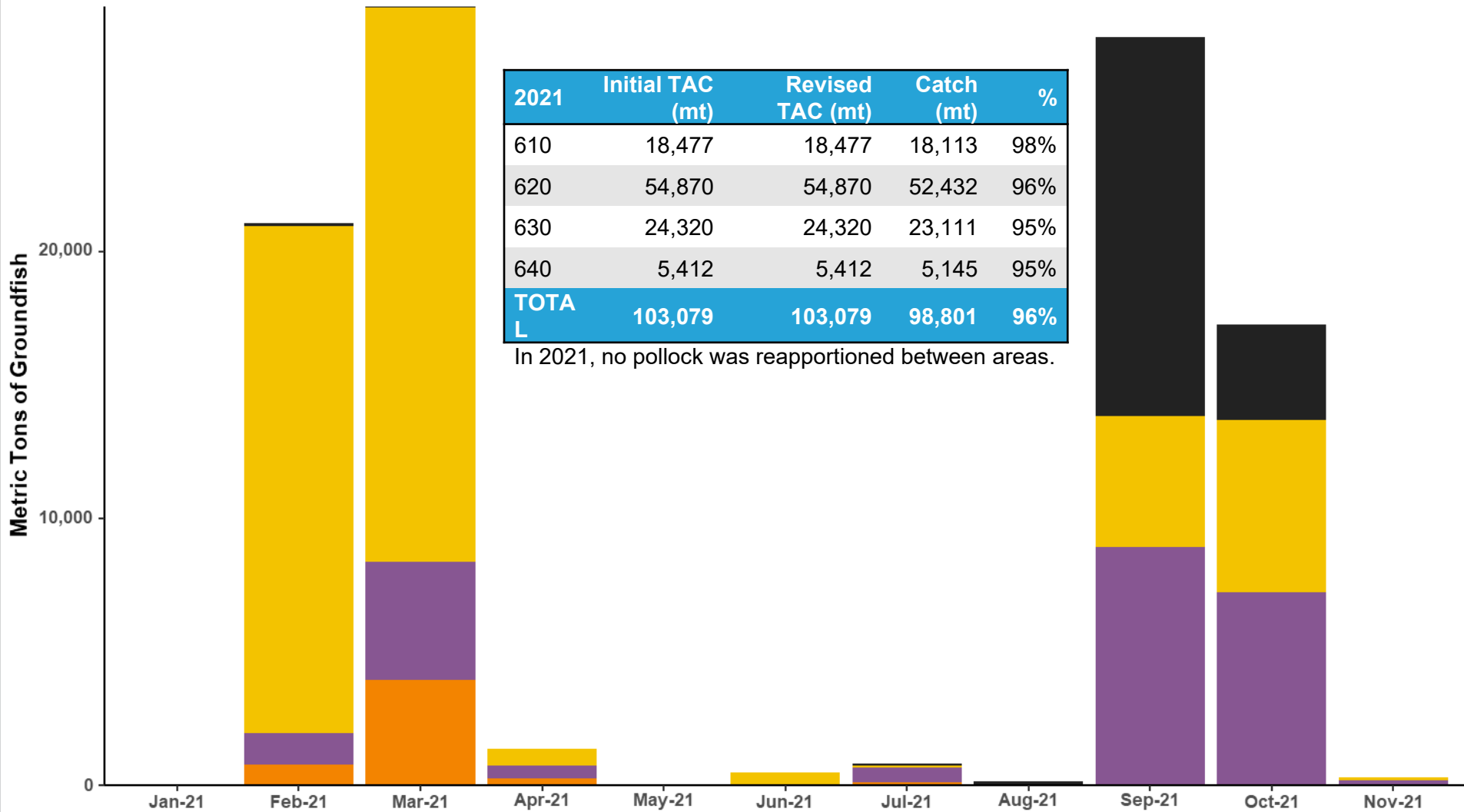


# 2021 Gulf of Alaska Pollock Directed Fishery



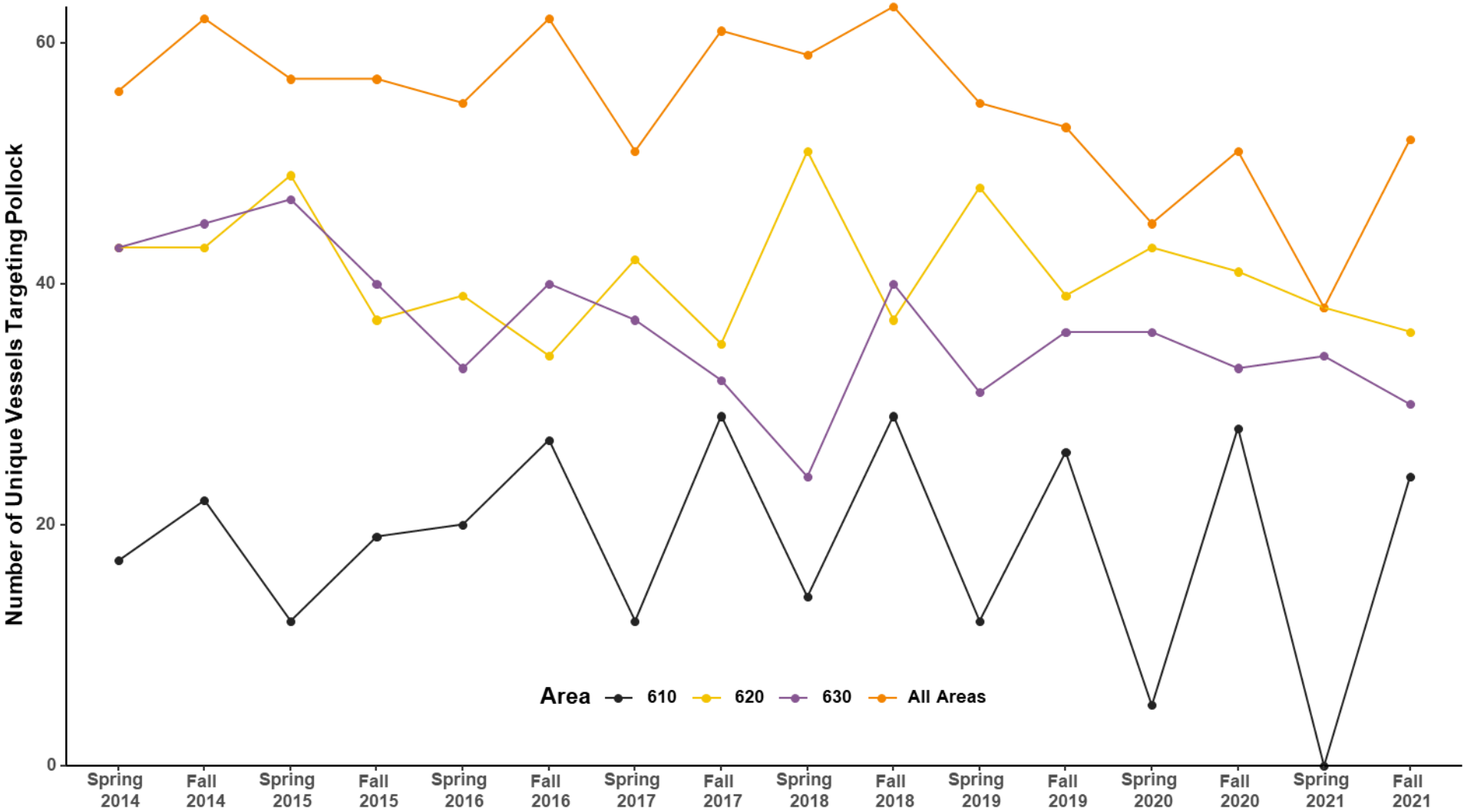
# 2021 Pollock Catch in the GOA

Area  610  620  630  640

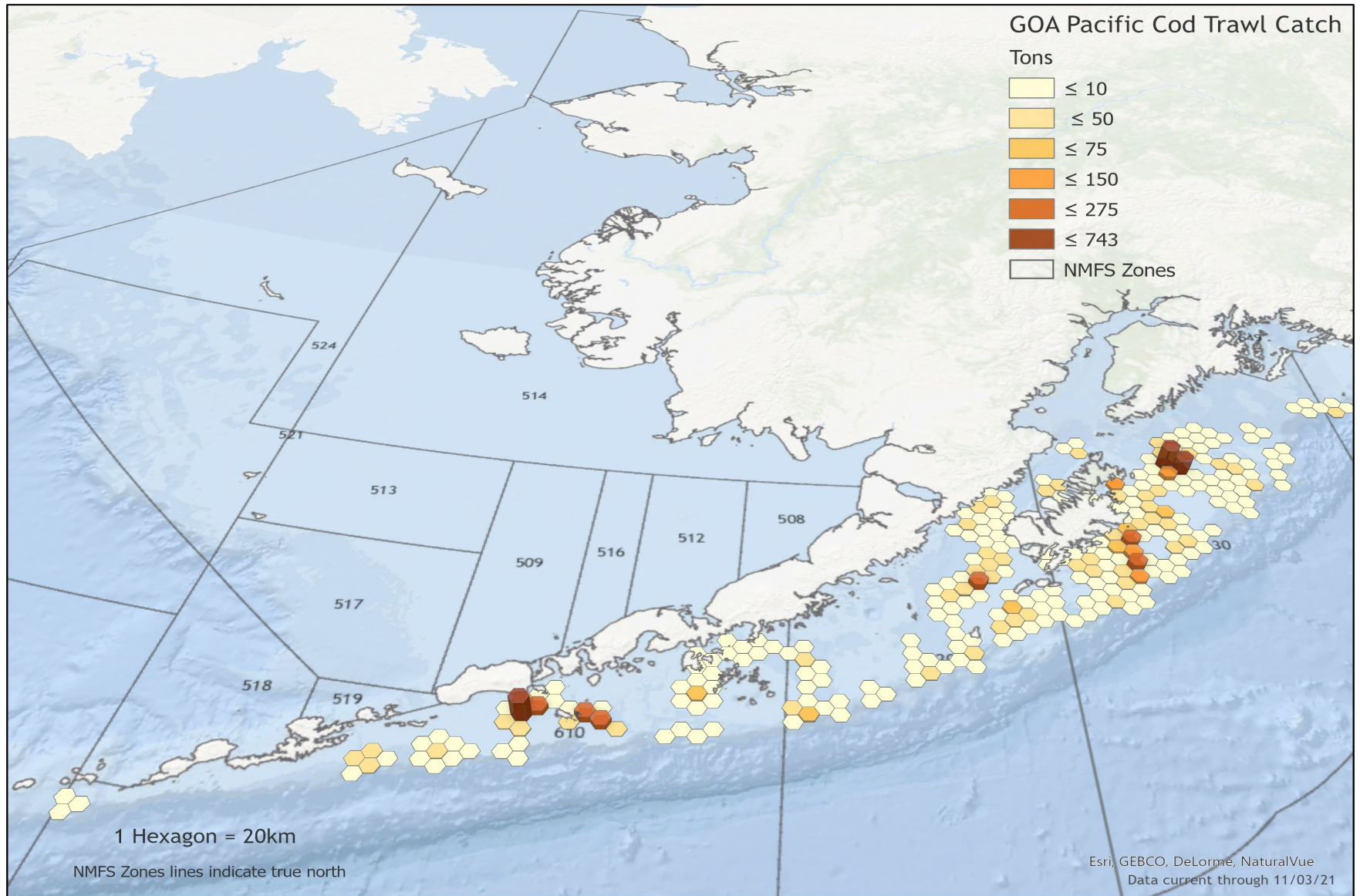


# Counts of Vessels Targeting GOA Pollock

Area	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021
610	17	22	12	19	20	27	12	29	14	29	12	26	5	28	0	24
620	43	43	49	37	39	34	42	35	51	37	48	39	43	41	38	36
630	43	45	47	40	33	40	37	32	24	40	31	36	36	33	34	30
All Areas	56	62	57	57	55	62	51	61	59	63	55	53	45	51	38	52

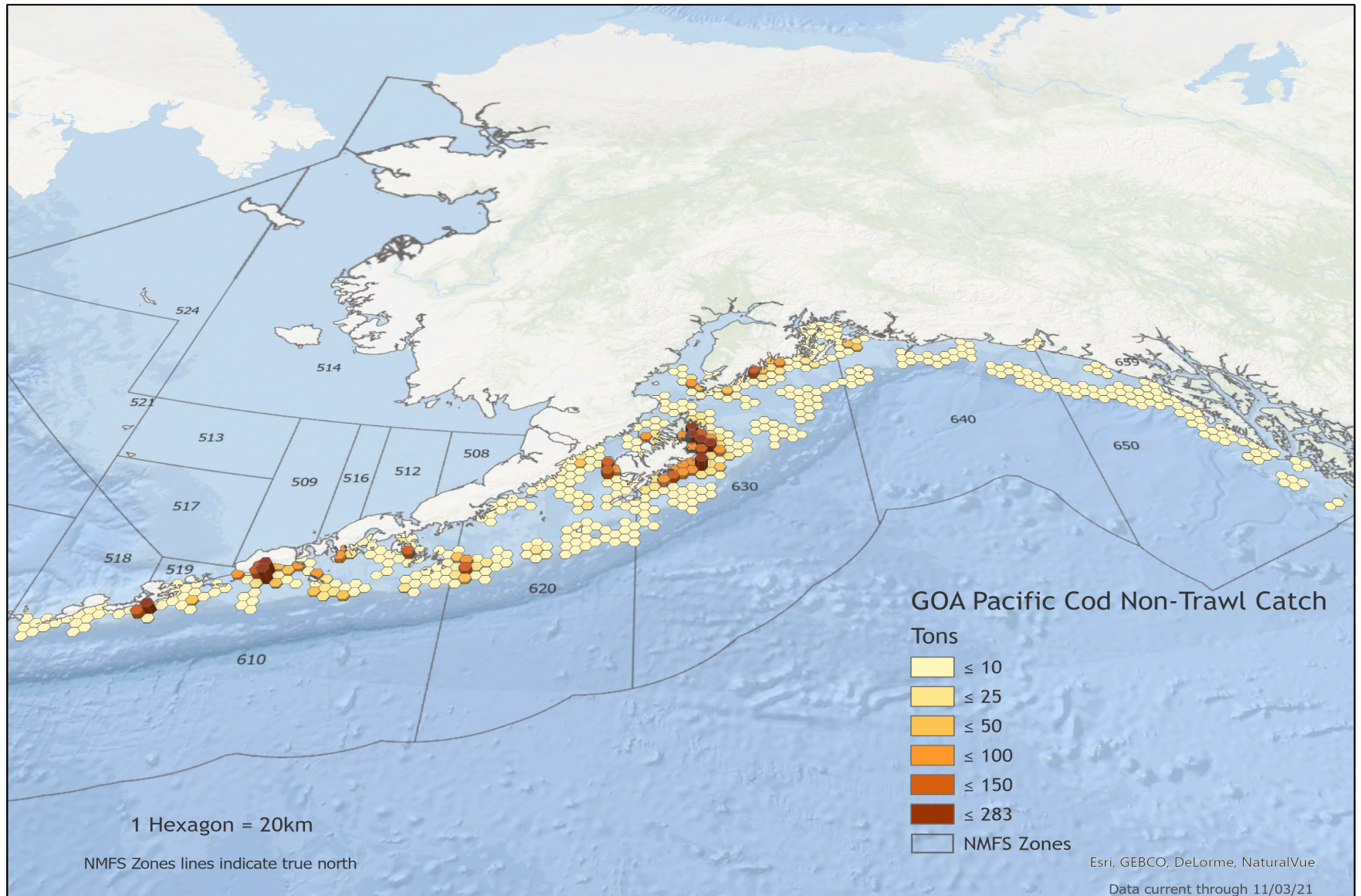


# 2021 Gulf of Alaska Pacific Cod Catch by Trawl Gear

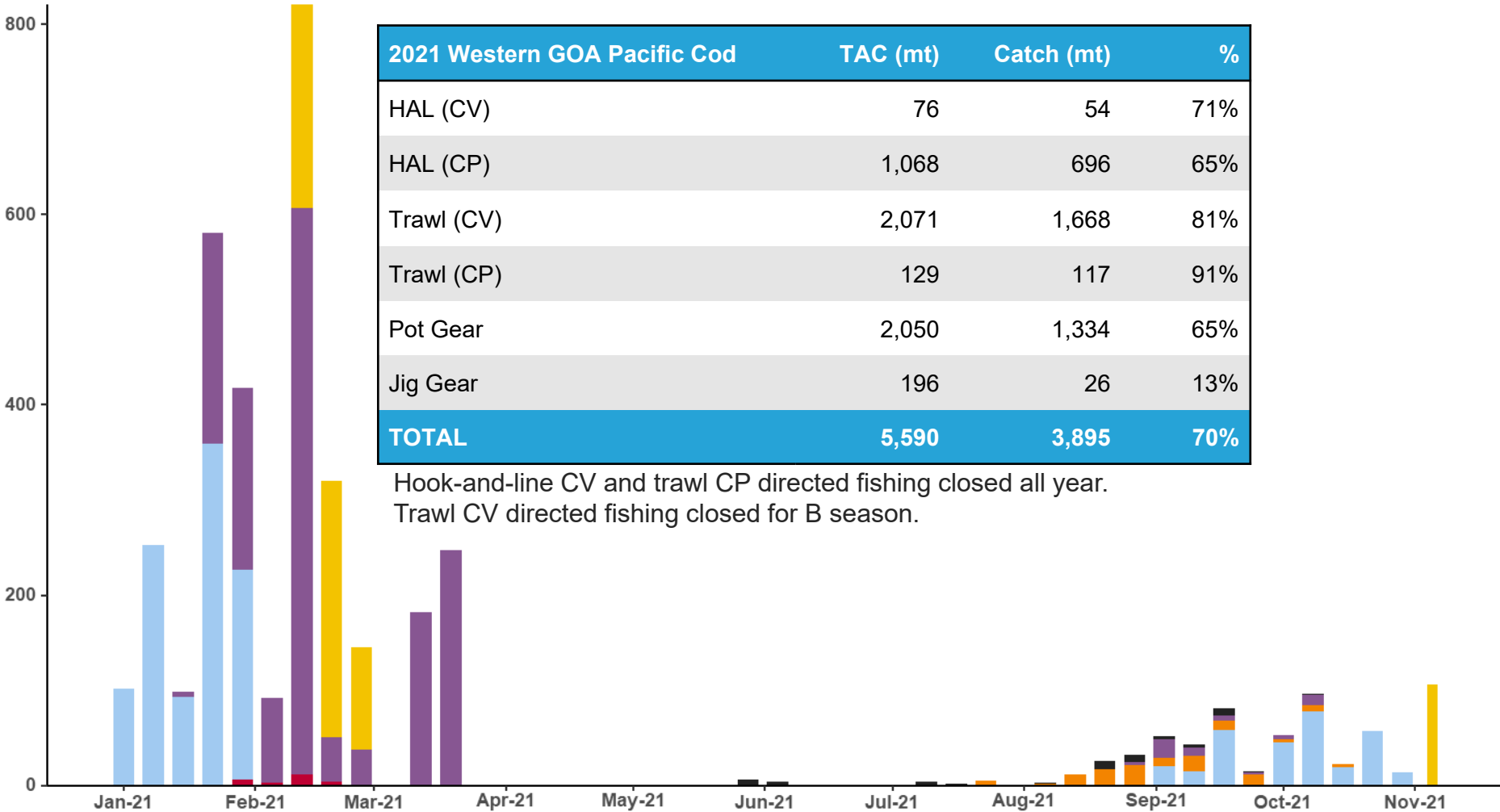




# 2021 Gulf of Alaska Pacific Cod Catch by Non-Trawl Gear



# 2021 Western GOA Pacific Cod Catch by Week and Sector

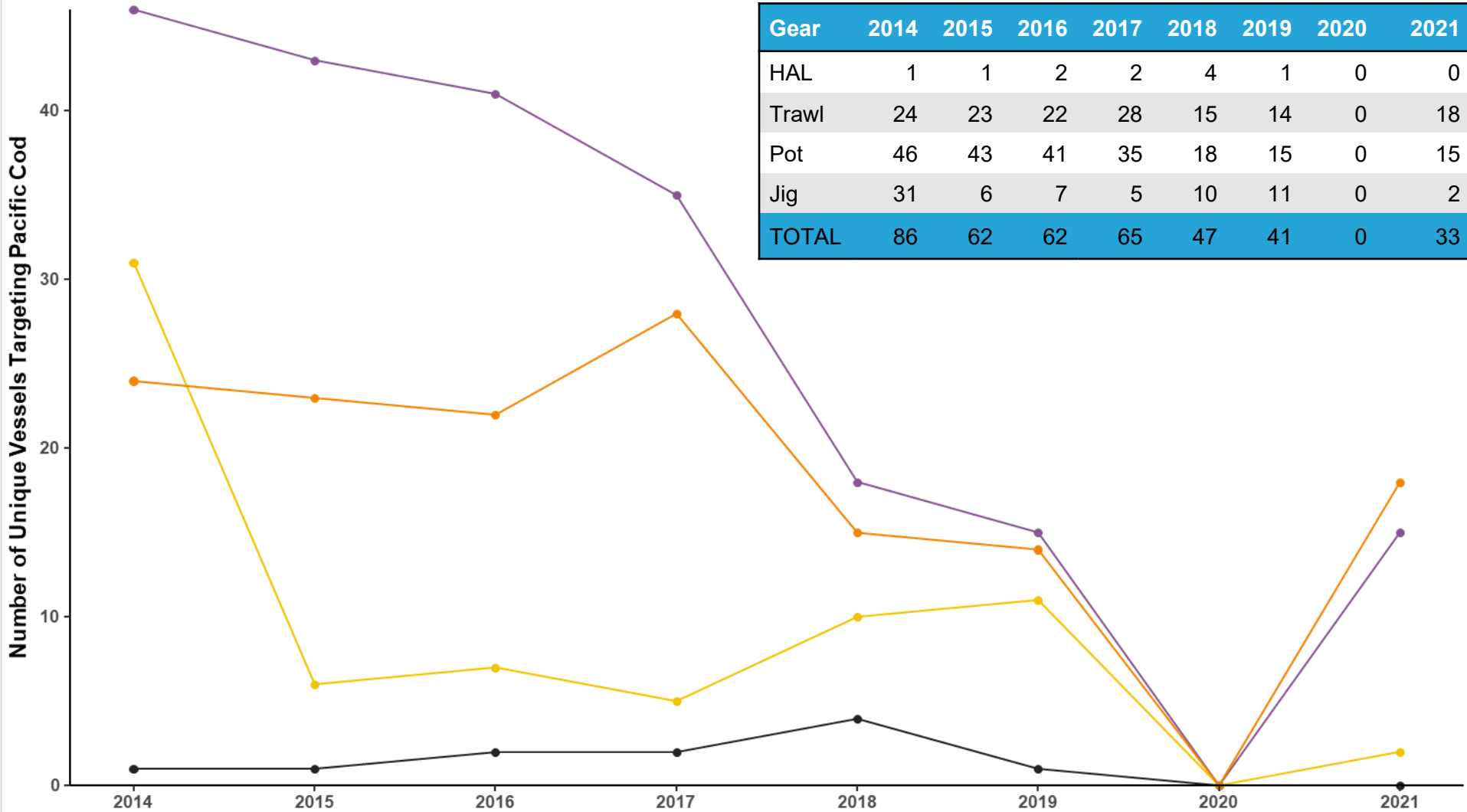


2021 Western GOA Pacific Cod	TAC (mt)	Catch (mt)	%
HAL (CV)	76	54	71%
HAL (CP)	1,068	696	65%
Trawl (CV)	2,071	1,668	81%
Trawl (CP)	129	117	91%
Pot Gear	2,050	1,334	65%
Jig Gear	196	26	13%
<b>TOTAL</b>	<b>5,590</b>	<b>3,895</b>	<b>70%</b>

Hook-and-line CV and trawl CP directed fishing closed all year.  
 Trawl CV directed fishing closed for B season.

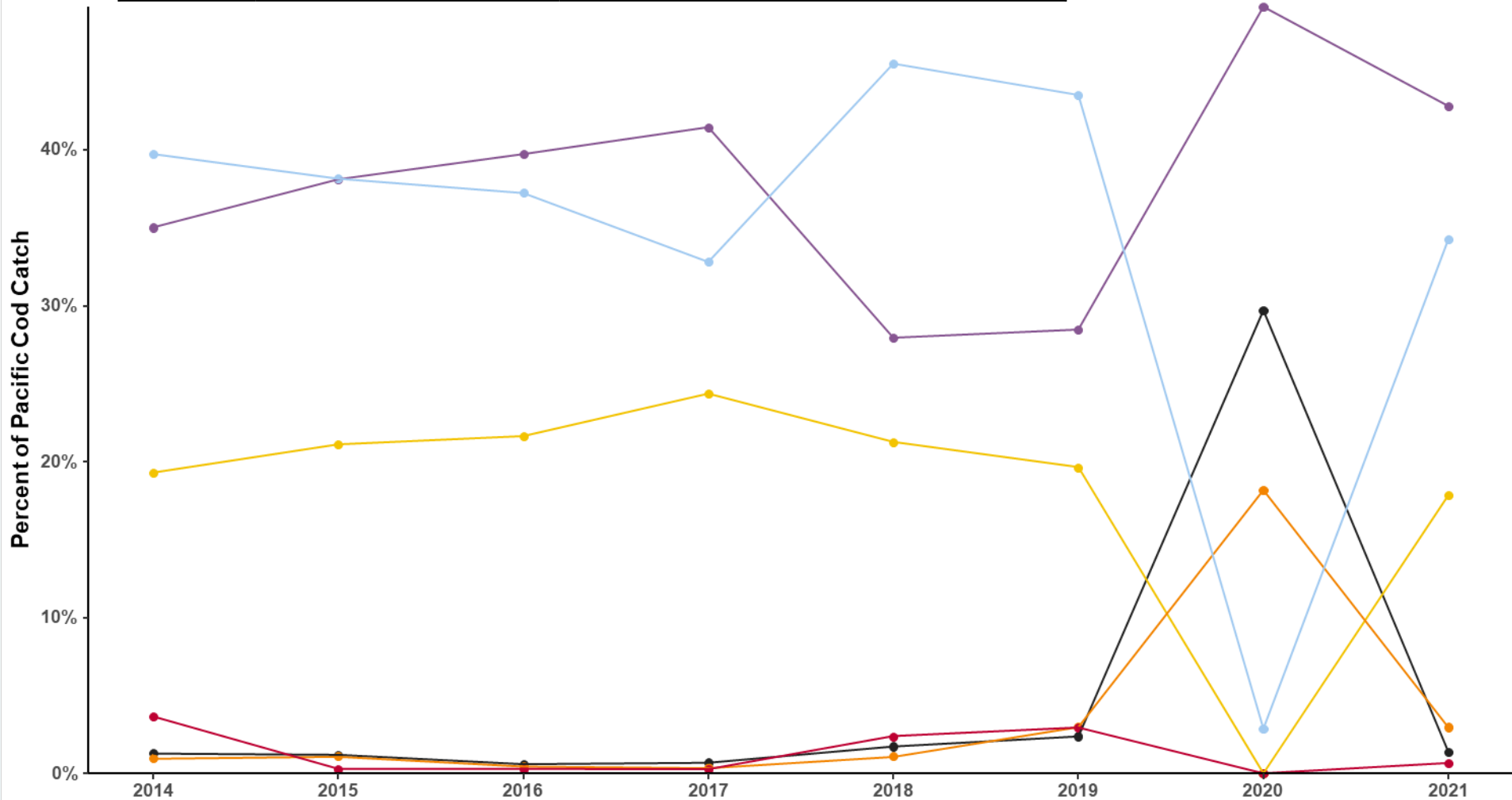
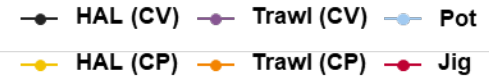
# Counts of Catcher Vessels Targeting Western GOA Pacific Cod

Gear — HAL — JIG — POT — TRW



# Western GOA Pacific Cod Catch by Sector

Sector	2014	2015	2016	2017	2018	2019	2020	2021
HAL (CV)	1%	1%	1%	1%	2%	2%	30%	1%
HAL (CP)	19%	21%	22%	24%	21%	20%	0%	18%
Trawl (CV)	35%	38%	40%	41%	28%	28%	49%	43%
Trawl (CP)	1%	1%	0%	0%	1%	3%	18%	3%
Pot	40%	38%	37%	33%	46%	44%	3%	34%
Jig	4%	0%	0%	0%	2%	3%	0%	1%



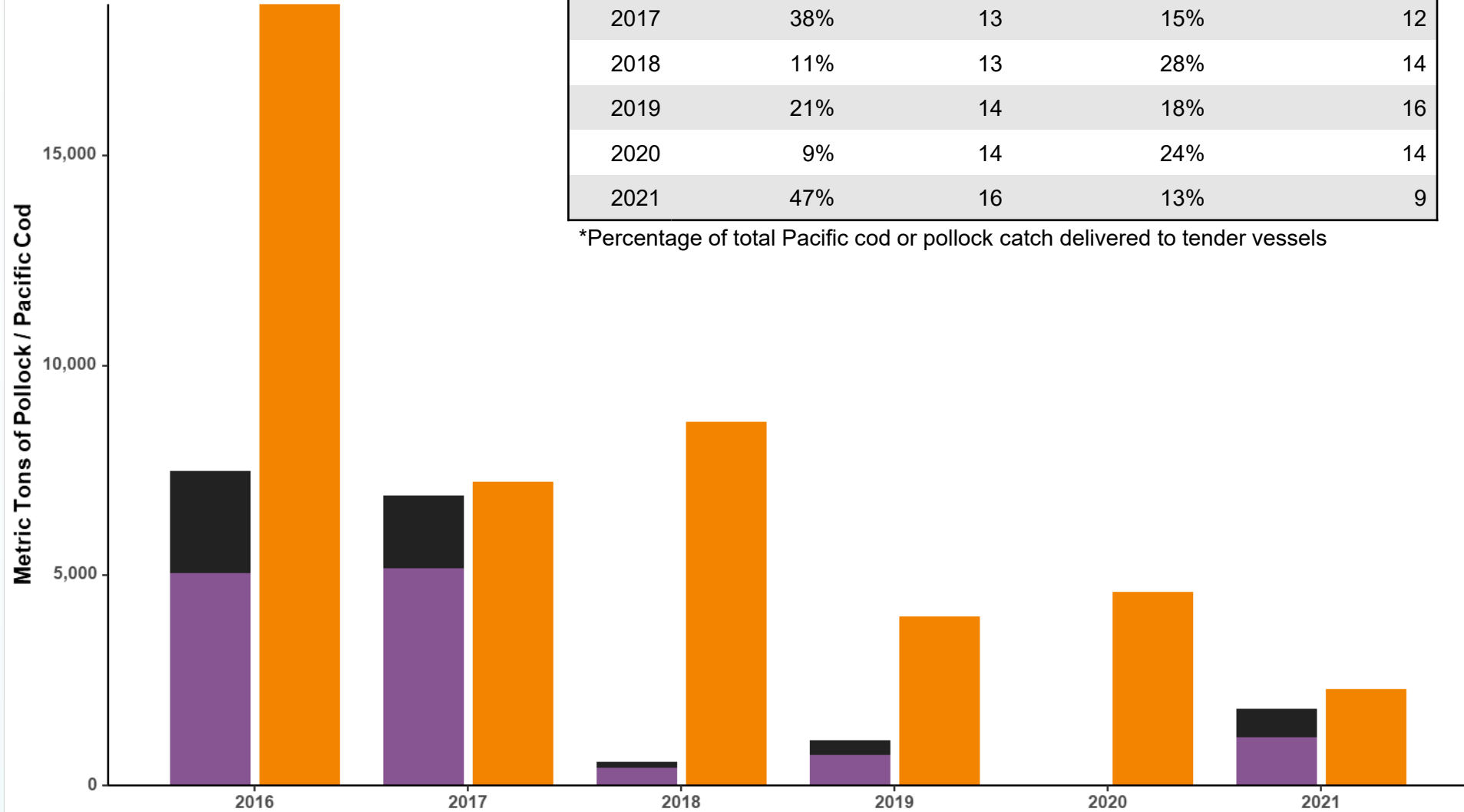


# Western GOA Tender Vessels Report

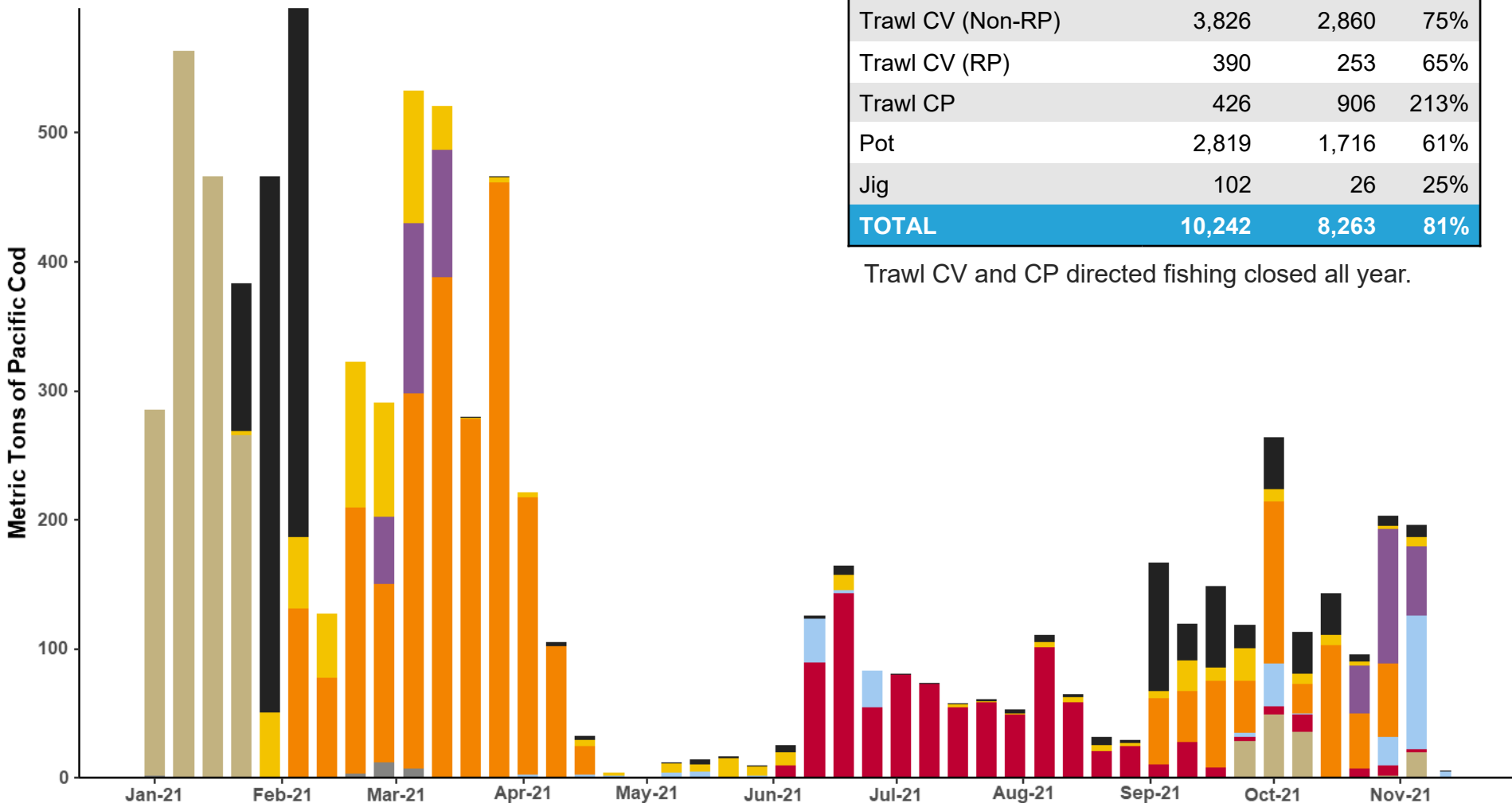
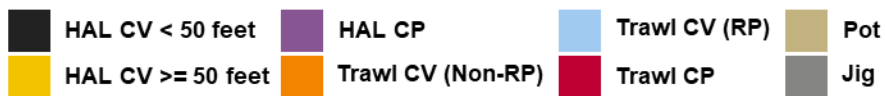


Year	% of Pacific Cod Total Catch*	Count of Tenders (Pacific Cod)	% of Pollock Total Catch*	Count of Tenders (Pollock)
2016	41%	17	30%	15
2017	38%	13	15%	12
2018	11%	13	28%	14
2019	21%	14	18%	16
2020	9%	14	24%	14
2021	47%	16	13%	9

\*Percentage of total Pacific cod or pollock catch delivered to tender vessels



# 2021 Central GOA Pacific Cod Catch by Week and Sector



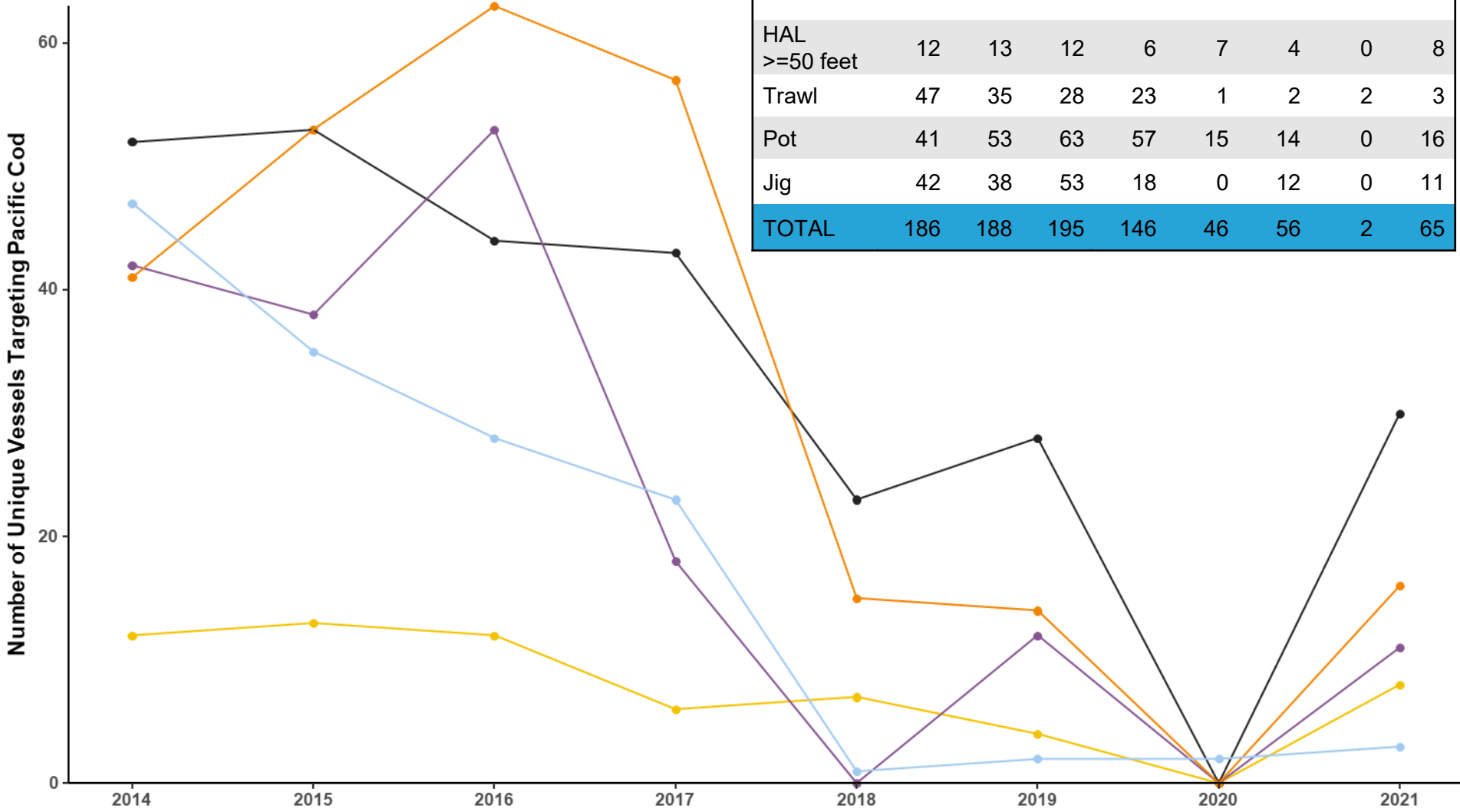
2021 Central GOA Pacific Cod	TAC (mt)	Catch (mt)	%
HAL CV <50 feet	1,481	1,332	90%
HAL CV >=50 feet	680	692	102%
HAL CP	518	478	92%
Trawl CV (Non-RP)	3,826	2,860	75%
Trawl CV (RP)	390	253	65%
Trawl CP	426	906	213%
Pot	2,819	1,716	61%
Jig	102	26	25%
<b>TOTAL</b>	<b>10,242</b>	<b>8,263</b>	<b>81%</b>

Trawl CV and CP directed fishing closed all year.

# Counts of Catcher Vessels Targeting Central GOA Pacific Cod

● HAL < 50   
 ● HAL >= 50   
 ● JIG   
 ● POT   
 ● TRW

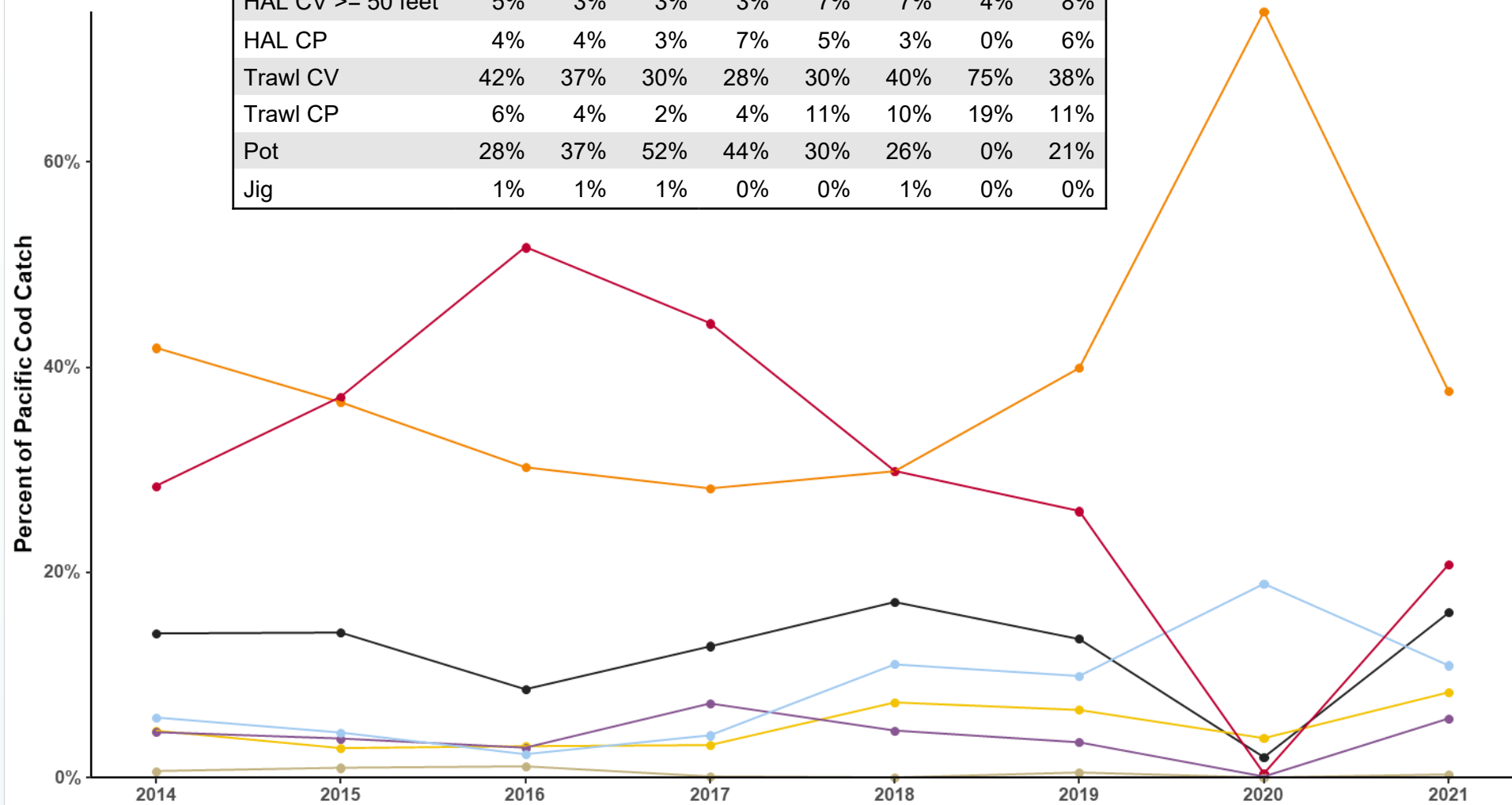
Sector	2014	2015	2016	2017	2018	2019	2020	2021
HAL <50 feet	52	53	44	43	23	28	0	30
HAL >=50 feet	12	13	12	6	7	4	0	8
Trawl	47	35	28	23	1	2	2	3
Pot	41	53	63	57	15	14	0	16
Jig	42	38	53	18	0	12	0	11
<b>TOTAL</b>	<b>186</b>	<b>188</b>	<b>195</b>	<b>146</b>	<b>46</b>	<b>56</b>	<b>2</b>	<b>65</b>



# Central GOA Pacific Cod Catch by Sector

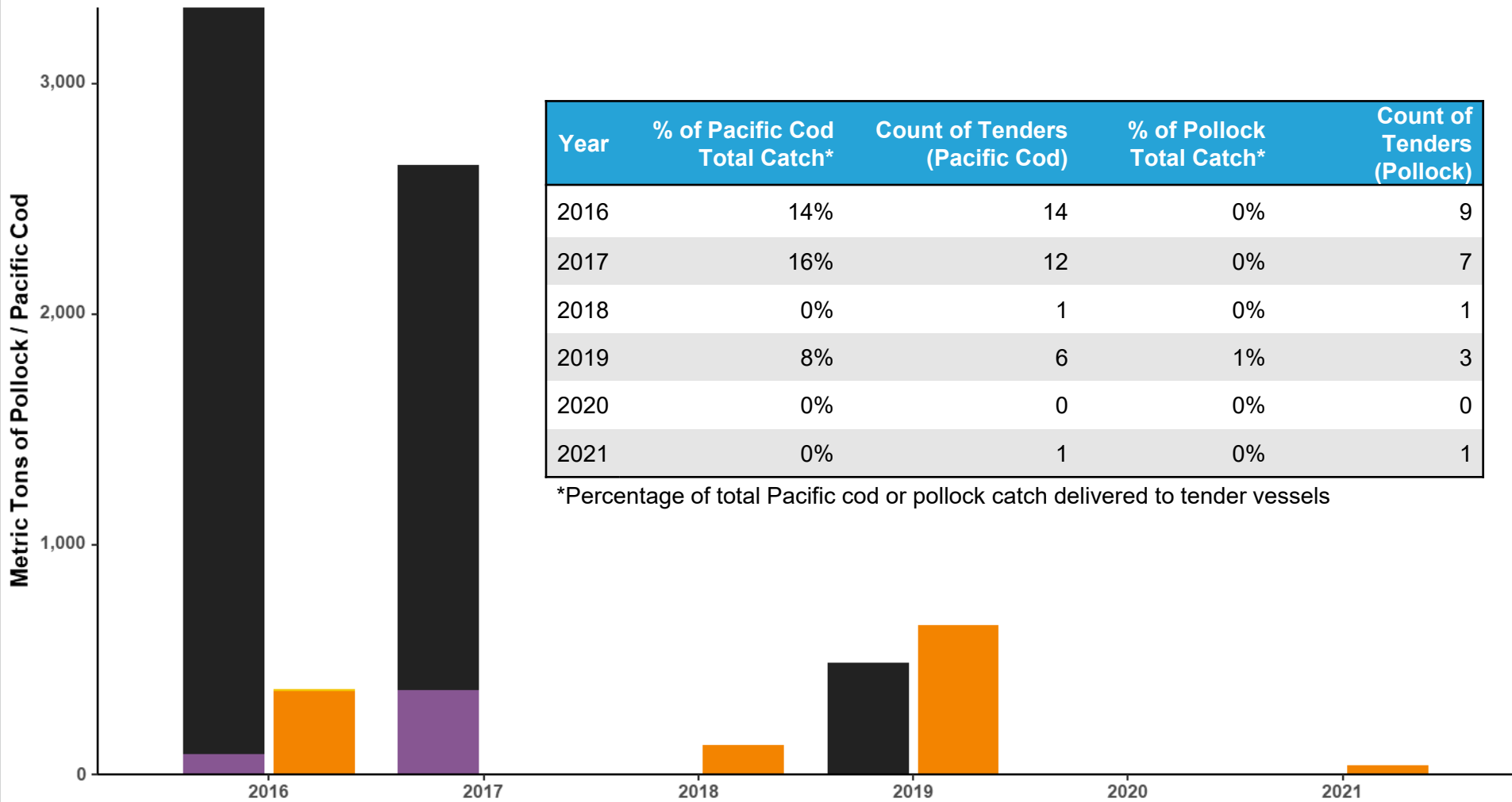
● HAL CV < 50 feet   
 ● HAL CP   
 ● Trawl CP   
 ● Jig  
● HAL CV >= 50 feet   
 ● Trawl CV   
 ● Pot

Sector	2014	2015	2016	2017	2018	2019	2020	2021
HAL CV < 50 feet	14%	14%	9%	13%	17%	14%	2%	16%
HAL CV >= 50 feet	5%	3%	3%	3%	7%	7%	4%	8%
HAL CP	4%	4%	3%	7%	5%	3%	0%	6%
Trawl CV	42%	37%	30%	28%	30%	40%	75%	38%
Trawl CP	6%	4%	2%	4%	11%	10%	19%	11%
Pot	28%	37%	52%	44%	30%	26%	0%	21%
Jig	1%	1%	1%	0%	0%	1%	0%	0%





# Central GOA Tender Vessels Report



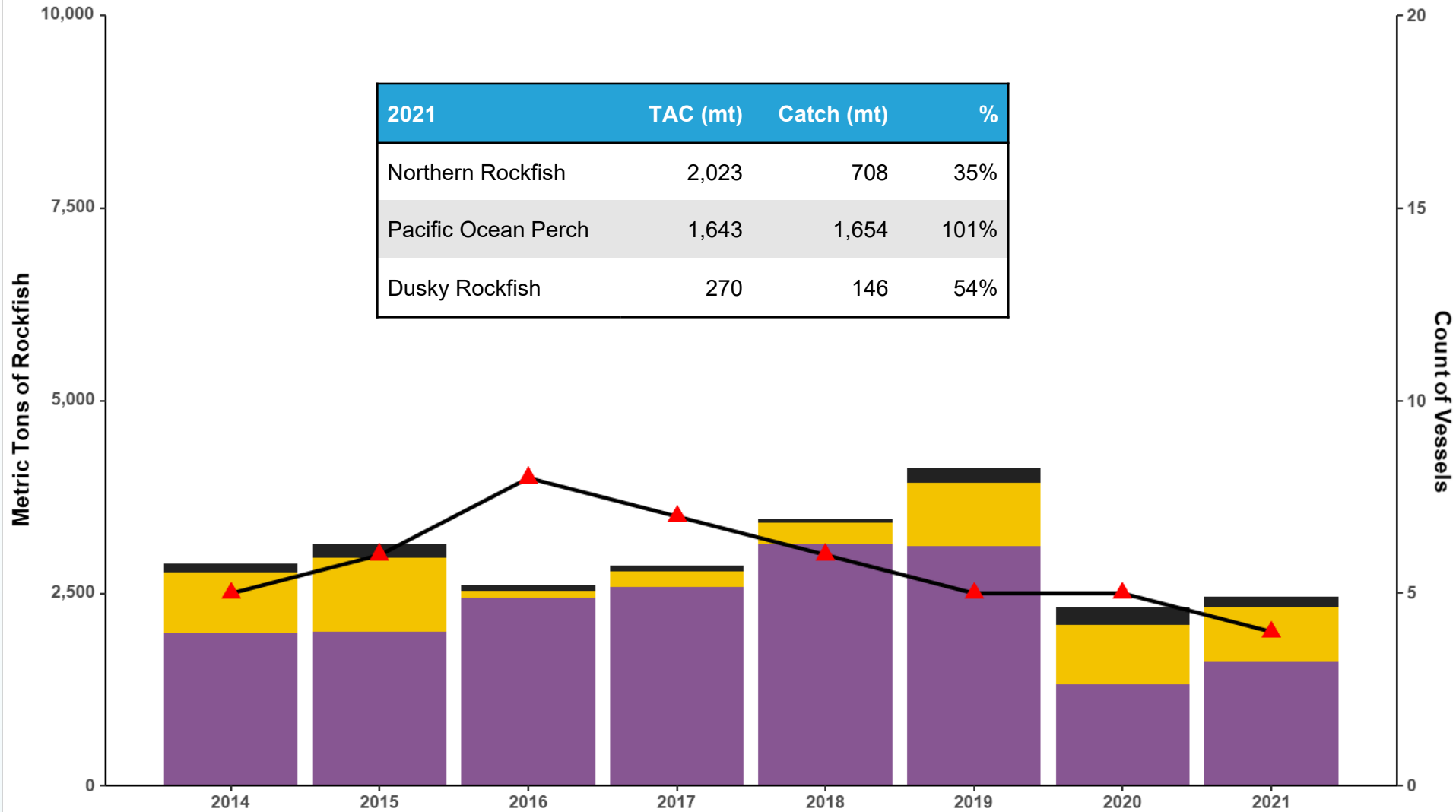
Year	% of Pacific Cod Total Catch*	Count of Tenders (Pacific Cod)	% of Pollock Total Catch*	Count of Tenders (Pollock)
2016	14%	14	0%	9
2017	16%	12	0%	7
2018	0%	1	0%	1
2019	8%	6	1%	3
2020	0%	0	0%	0
2021	0%	1	0%	1

\*Percentage of total Pacific cod or pollock catch delivered to tender vessels

# Western GOA Trawl Rockfish Fishery

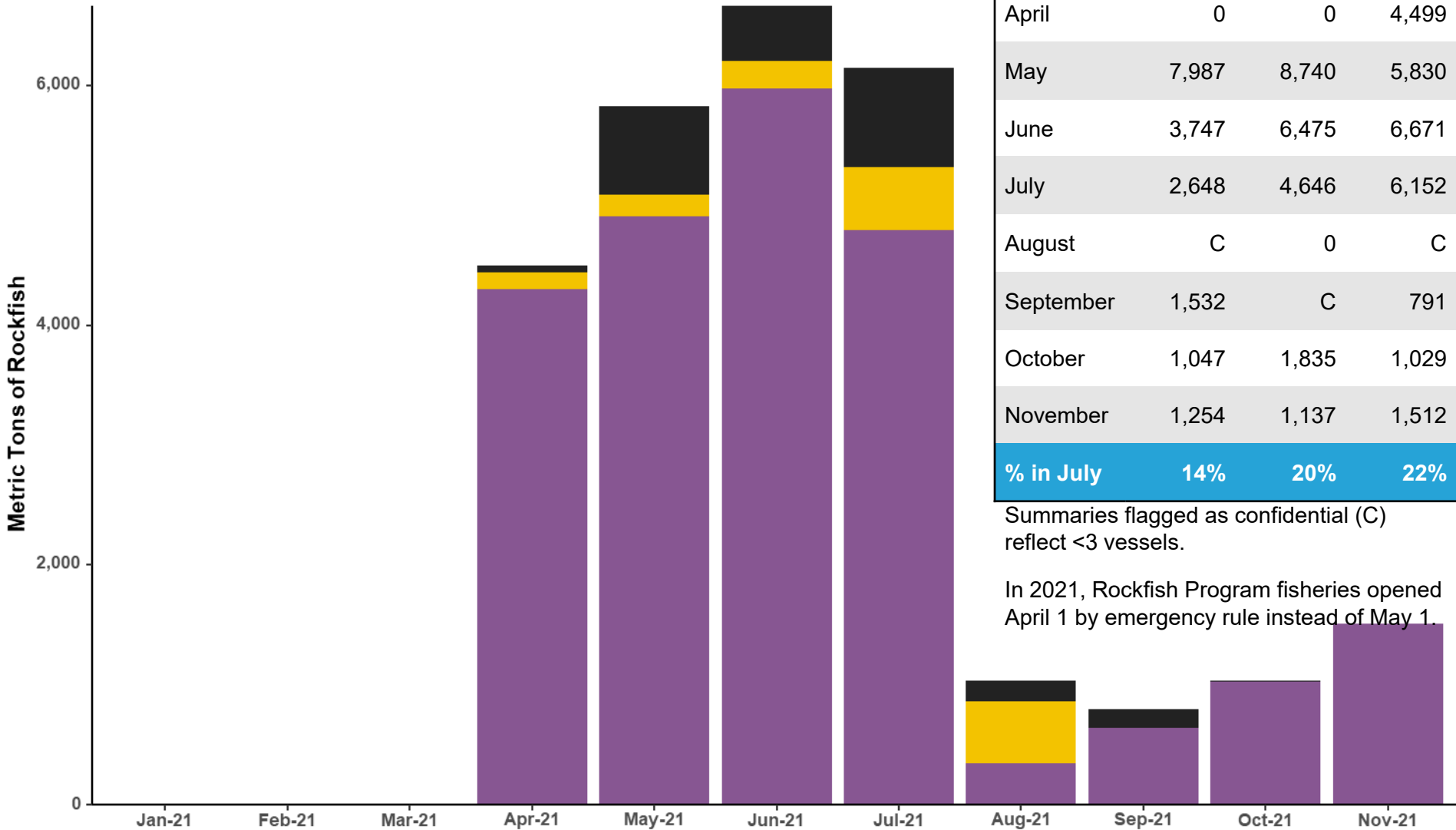
Dusky Rockfish
  Northern Rockfish
  Pacific Ocean Perch
  Count of Vessels

2021	TAC (mt)	Catch (mt)	%
Northern Rockfish	2,023	708	35%
Pacific Ocean Perch	1,643	1,654	101%
Dusky Rockfish	270	146	54%



# 2021 Central GOA Trawl Rockfish Program Fishery by Month

Species  Dusky Rockfish  Northern Rockfish  Pacific Ocean Perch

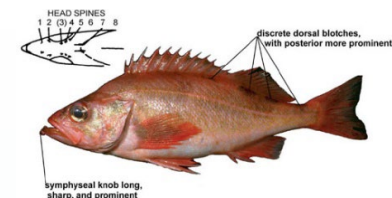


Summaries flagged as confidential (C) reflect <3 vessels.

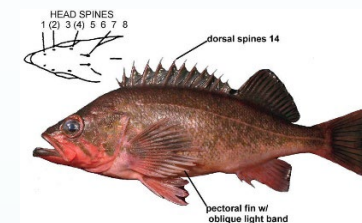
In 2021, Rockfish Program fisheries opened April 1 by emergency rule instead of May 1.

# 2021 Rockfish Program Allocations and Catch

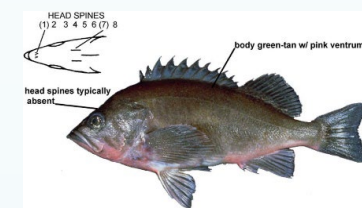
Allocations	Species	Limit (mt)	Catch (mt)	%
Entry Level Longline Fishery	Pacific Ocean Perch	5	0	0%
	Northern Rockfish	5	0	0%
	Dusky Rockfish	50	3	6%
Cooperatives	Pacific Ocean Perch	24,924	23,811	96%
	Northern Rockfish	3,029	1,632	54%
	Dusky Rockfish	4,248	2,601	61%
	Pacific Cod	390	253	65%
	Sablefish	829	690	83%
	Thornyhead	312	78	25%
	Shortraker	114	Confidential	Confidential
	Rougheye	268	Confidential	Confidential
	Pacific Halibut PSC	191	78	41%
Primary Species Central GOA Incidental Catch	Pacific Ocean Perch	2,500	1,323	53%
	Northern Rockfish	300	38	13%
	Dusky Rockfish	250	146	58%



Pacific Ocean Perch



Northern Rockfish



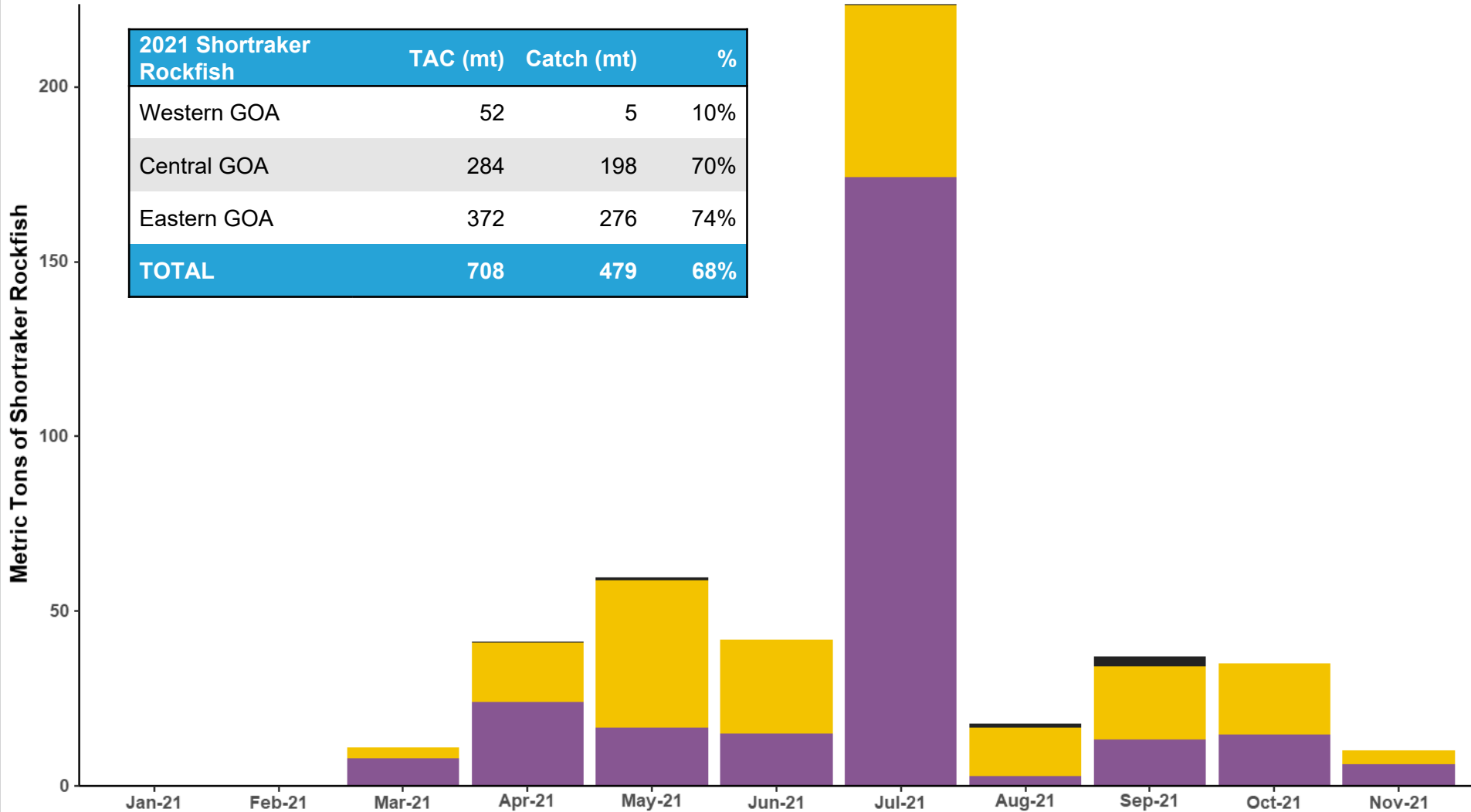
Dusky Rockfish



# 2021 GOA Shortraker Rockfish Catch

Area ■ Western GOA ■ Central GOA ■ Eastern GOA

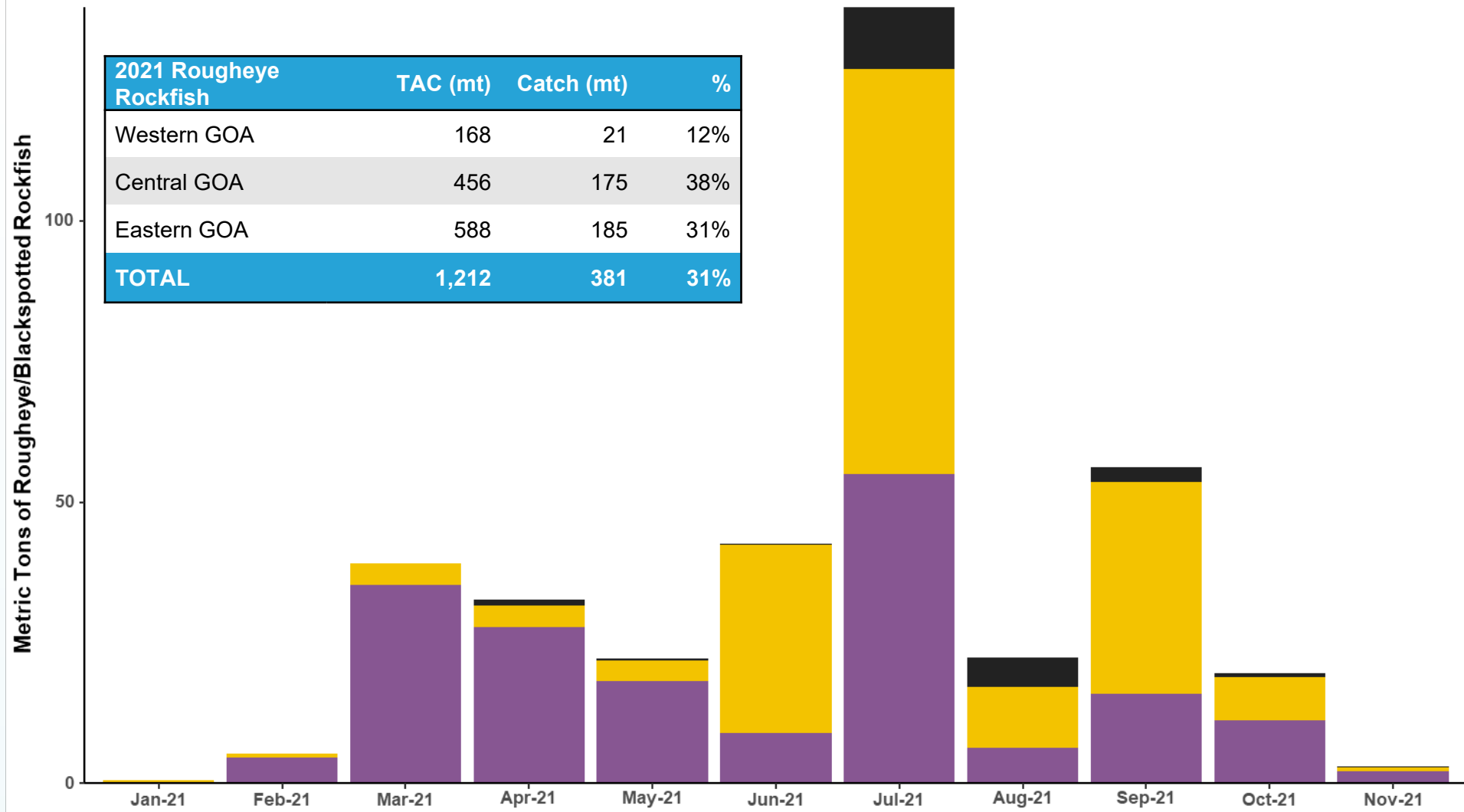
2021 Shortraker Rockfish	TAC (mt)	Catch (mt)	%
Western GOA	52	5	10%
Central GOA	284	198	70%
Eastern GOA	372	276	74%
<b>TOTAL</b>	<b>708</b>	<b>479</b>	<b>68%</b>



# 2021 GOA Rougheye/Blackspotted Rockfish Catch

Area  Western GOA  Central GOA  Eastern GOA

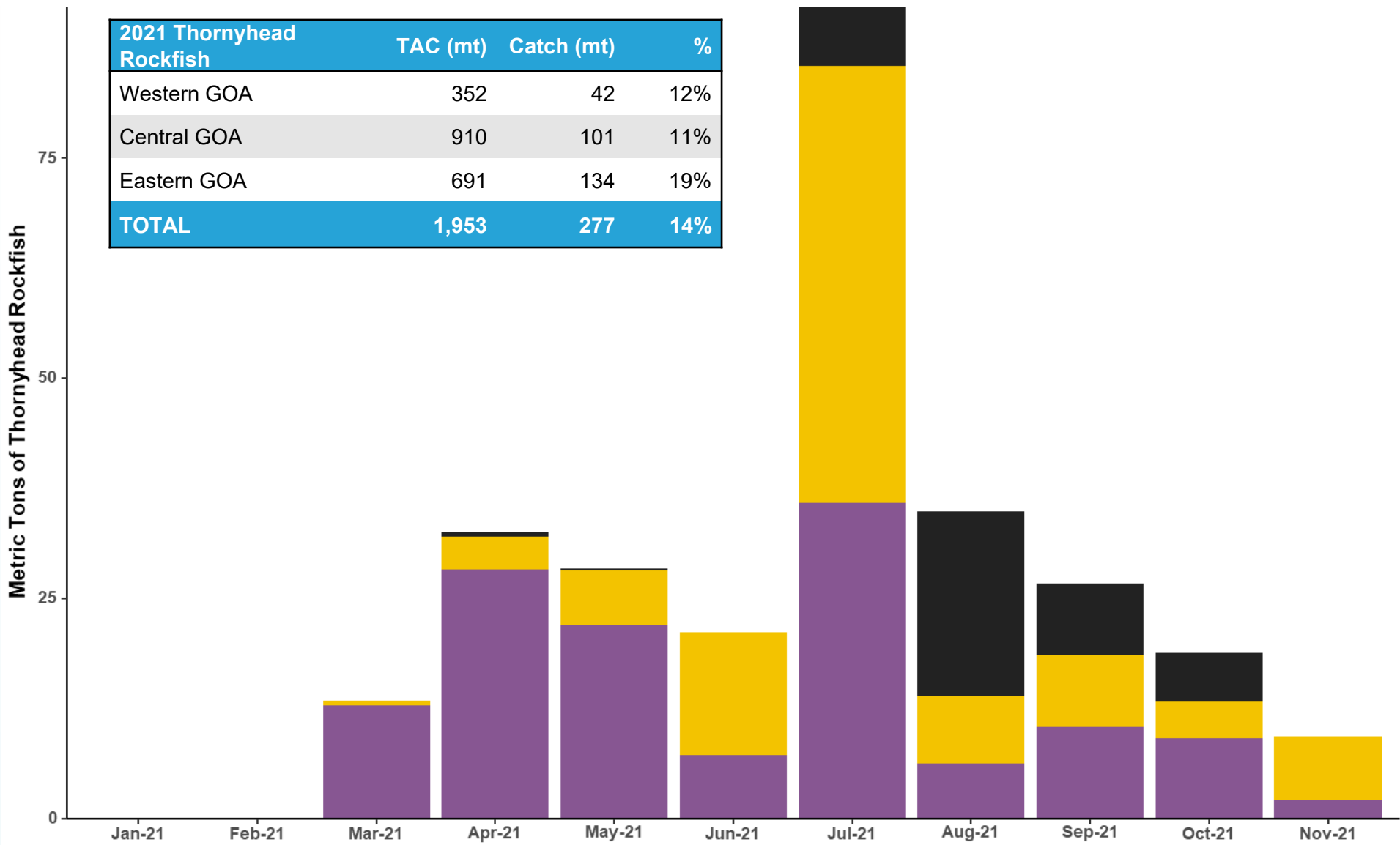
2021 Rougheye Rockfish	TAC (mt)	Catch (mt)	%
Western GOA	168	21	12%
Central GOA	456	175	38%
Eastern GOA	588	185	31%
<b>TOTAL</b>	<b>1,212</b>	<b>381</b>	<b>31%</b>



# 2021 GOA Thornyhead Rockfish Catch

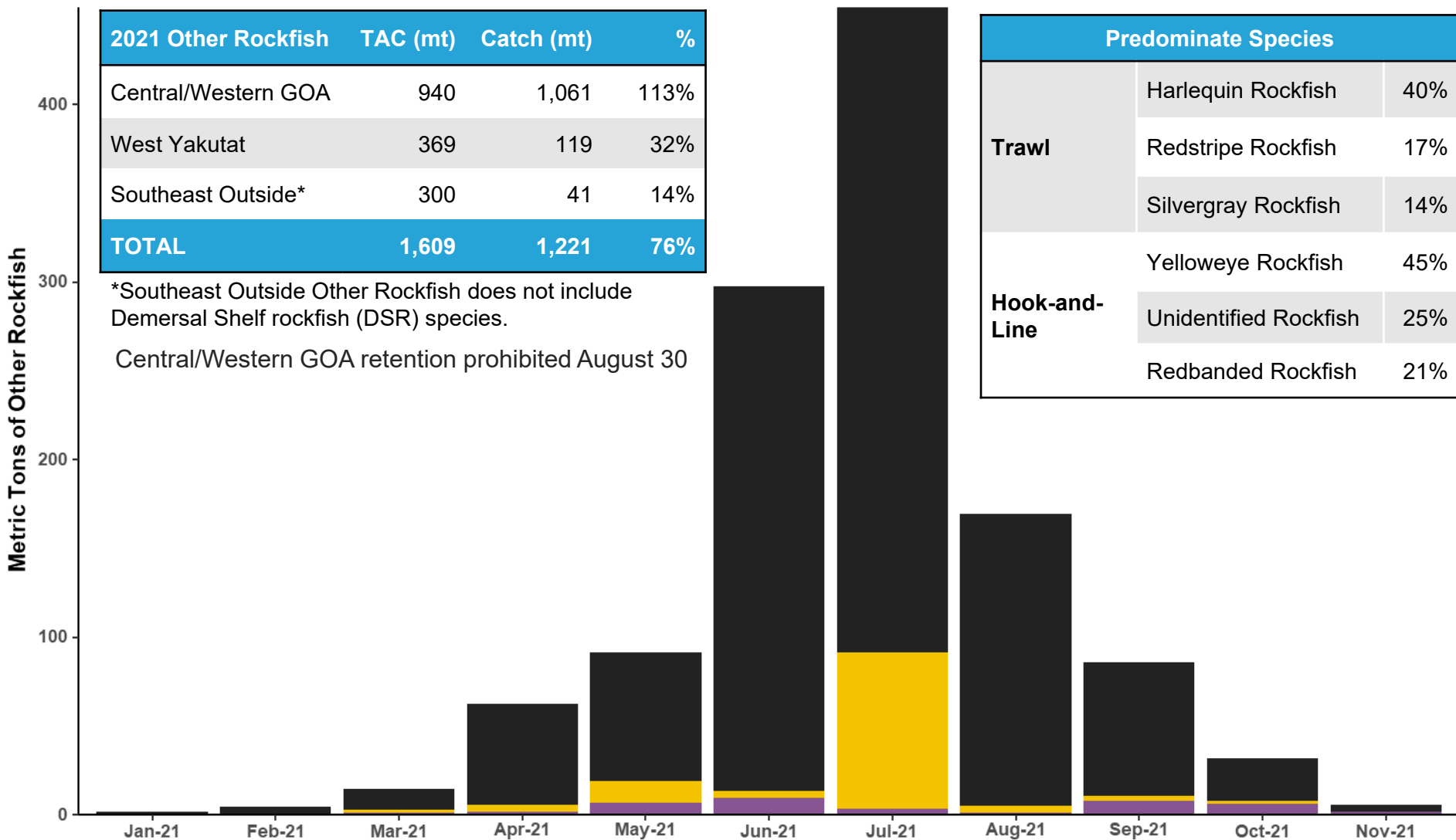
Area  Western GOA  Central GOA  Eastern GOA

2021 Thornyhead Rockfish	TAC (mt)	Catch (mt)	%
Western GOA	352	42	12%
Central GOA	910	101	11%
Eastern GOA	691	134	19%
<b>TOTAL</b>	<b>1,953</b>	<b>277</b>	<b>14%</b>



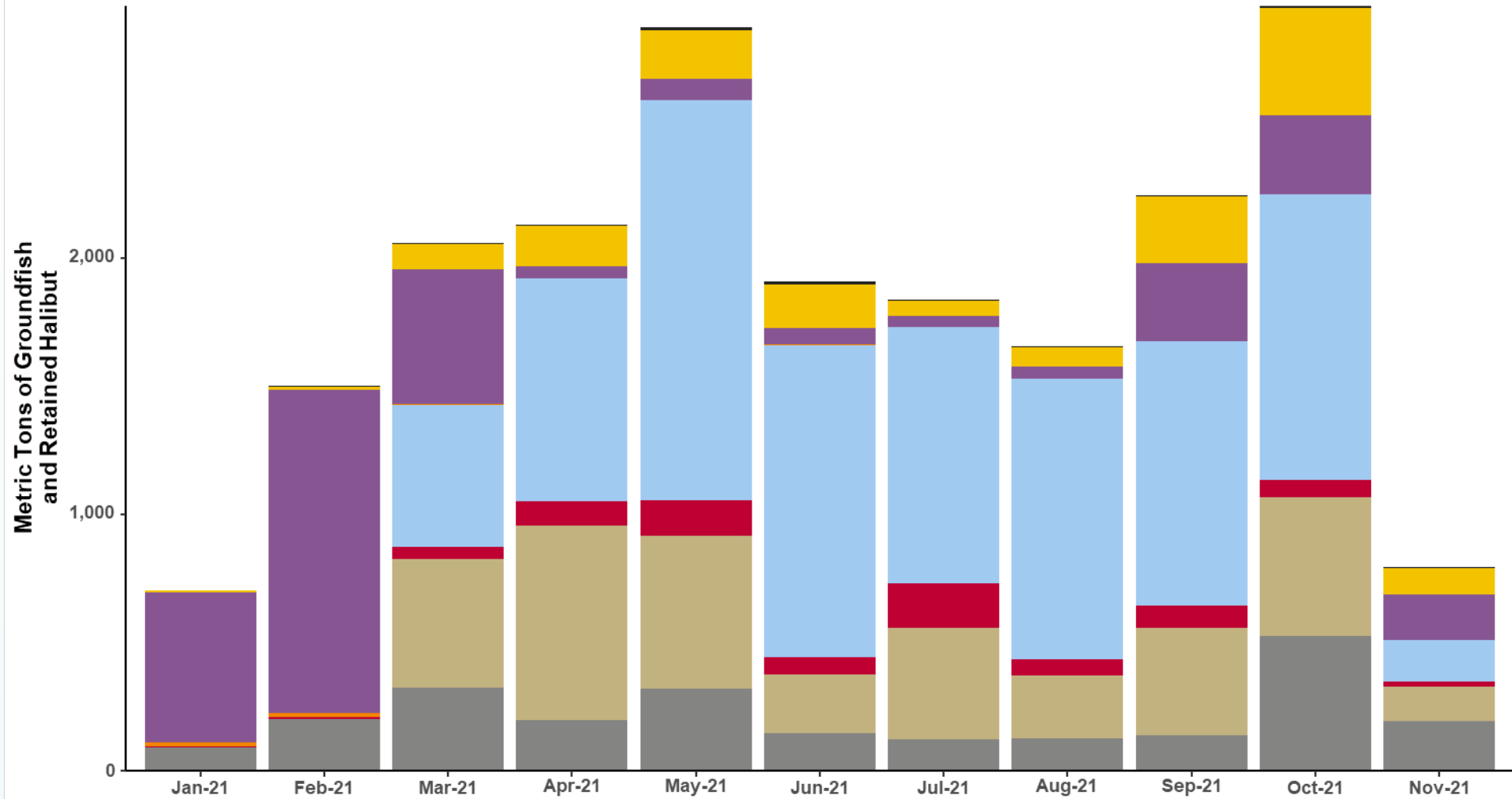
# 2021 GOA Other Rockfish Catch

Area  Central/Western GOA  West Yakutat  Southeast Outside

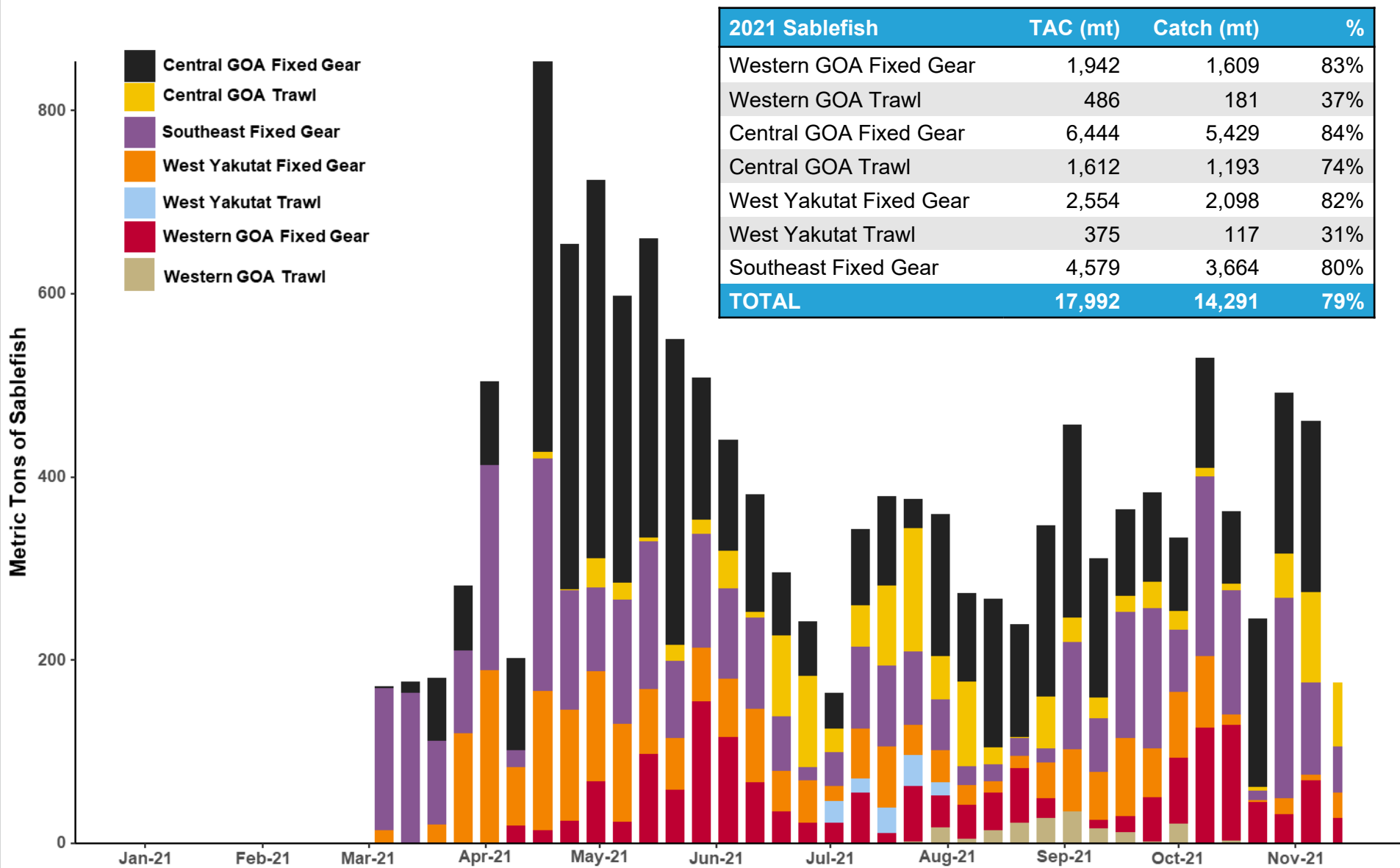




# 2021 GOA Hook-and-Line Catch

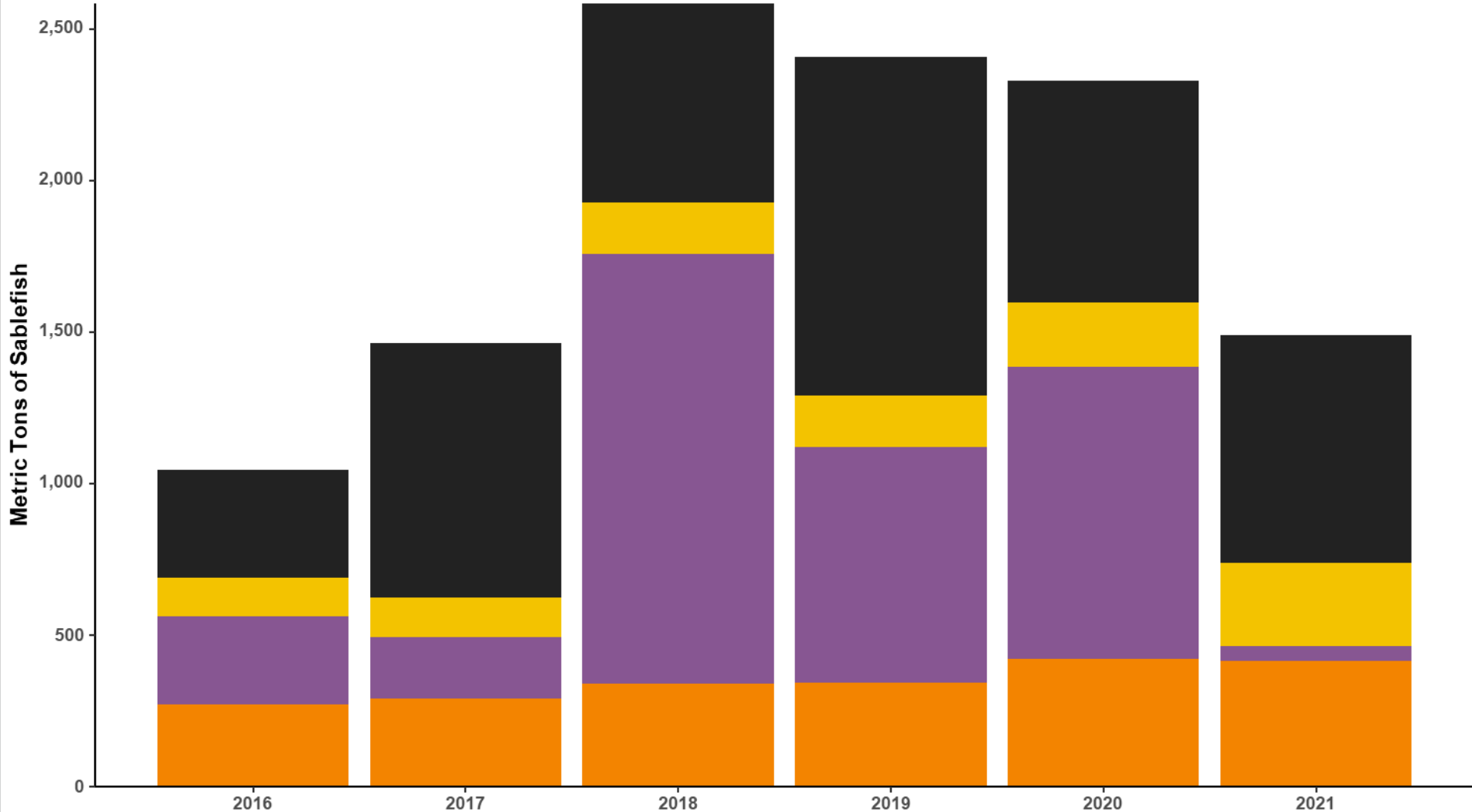


# 2021 GOA Sablefish Catch



# Sablefish Catch by Trawl Vessels

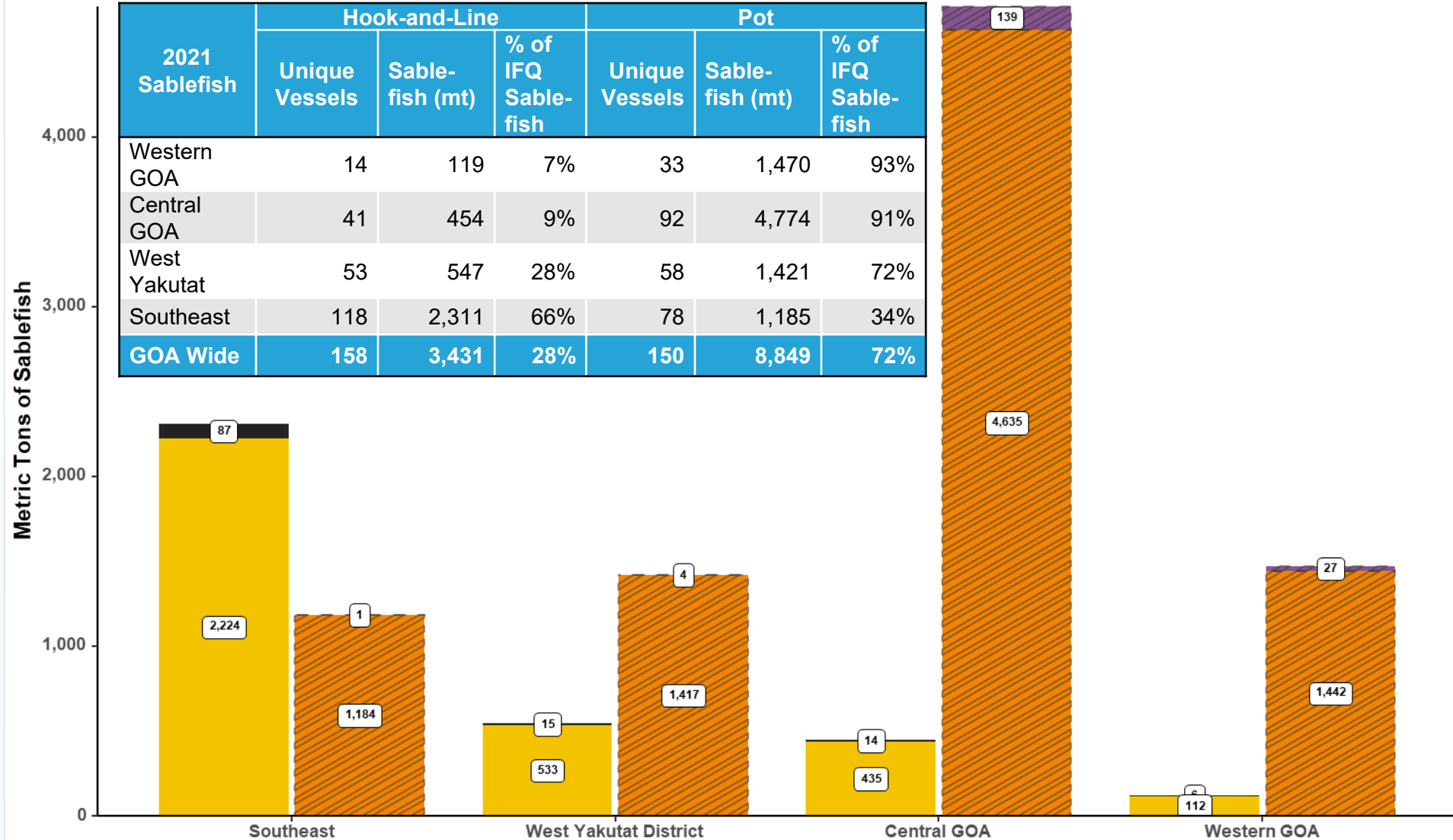
Trawl Catcher Processor (non-RP) Trawl Catcher Processor (RP) Trawl Catcher Vessel (non-RP) Trawl Catcher Vessel (RP)



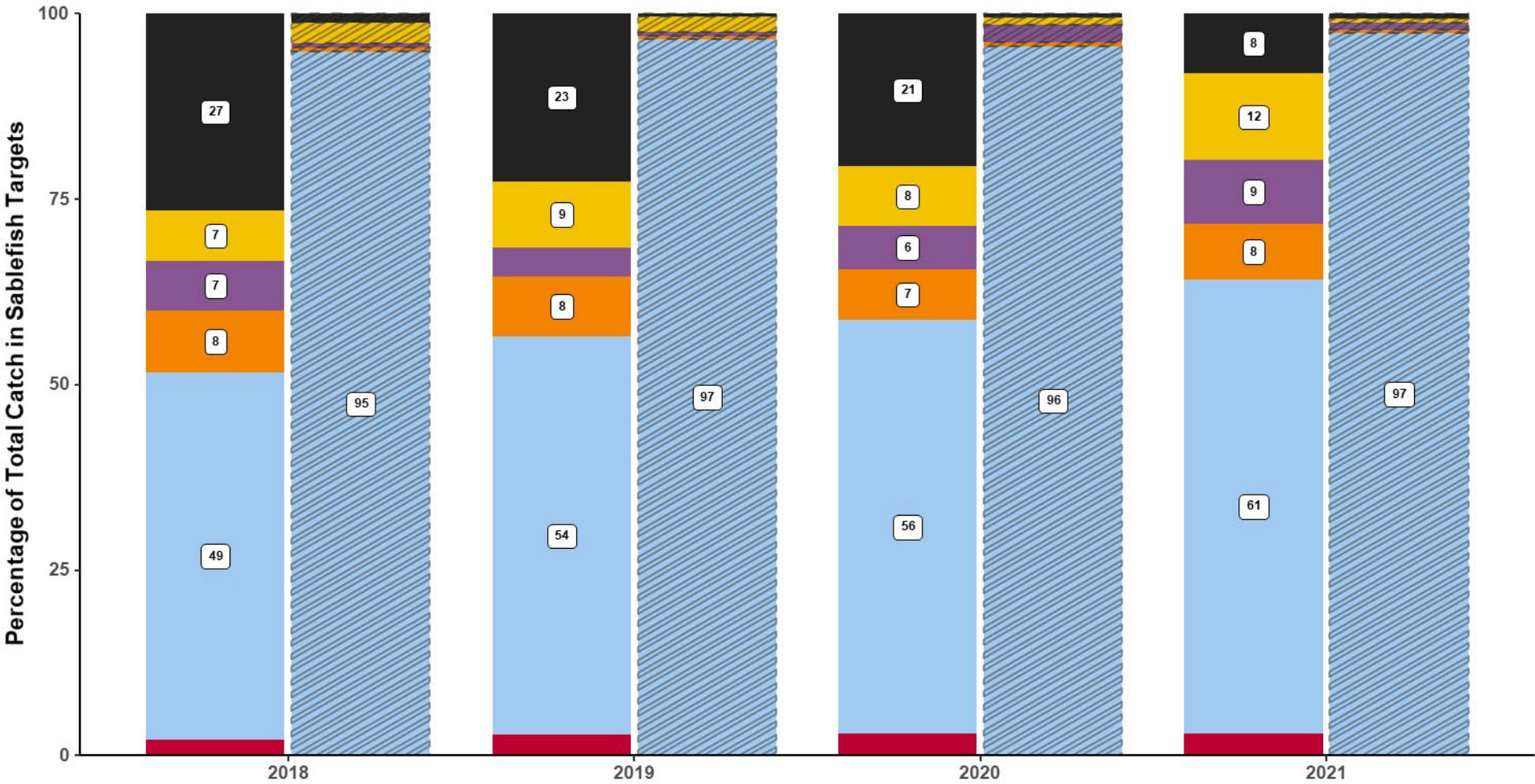
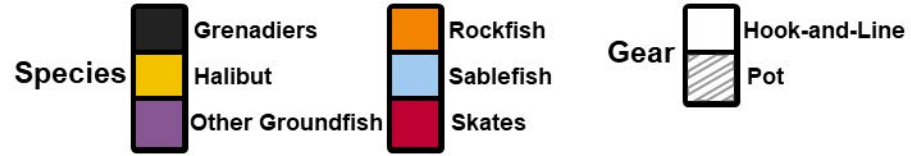
# 2021 Sablefish by Fixed Gear



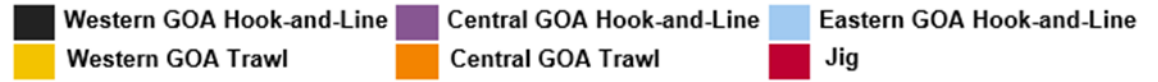
2021 Sablefish	Hook-and-Line			Pot		
	Unique Vessels	Sablefish (mt)	% of IFQ Sablefish	Unique Vessels	Sablefish (mt)	% of IFQ Sablefish
Western GOA	14	119	7%	33	1,470	93%
Central GOA	41	454	9%	92	4,774	91%
West Yakutat	53	547	28%	58	1,421	72%
Southeast	118	2,311	66%	78	1,185	34%
<b>GOA Wide</b>	<b>158</b>	<b>3,431</b>	<b>28%</b>	<b>150</b>	<b>8,849</b>	<b>72%</b>



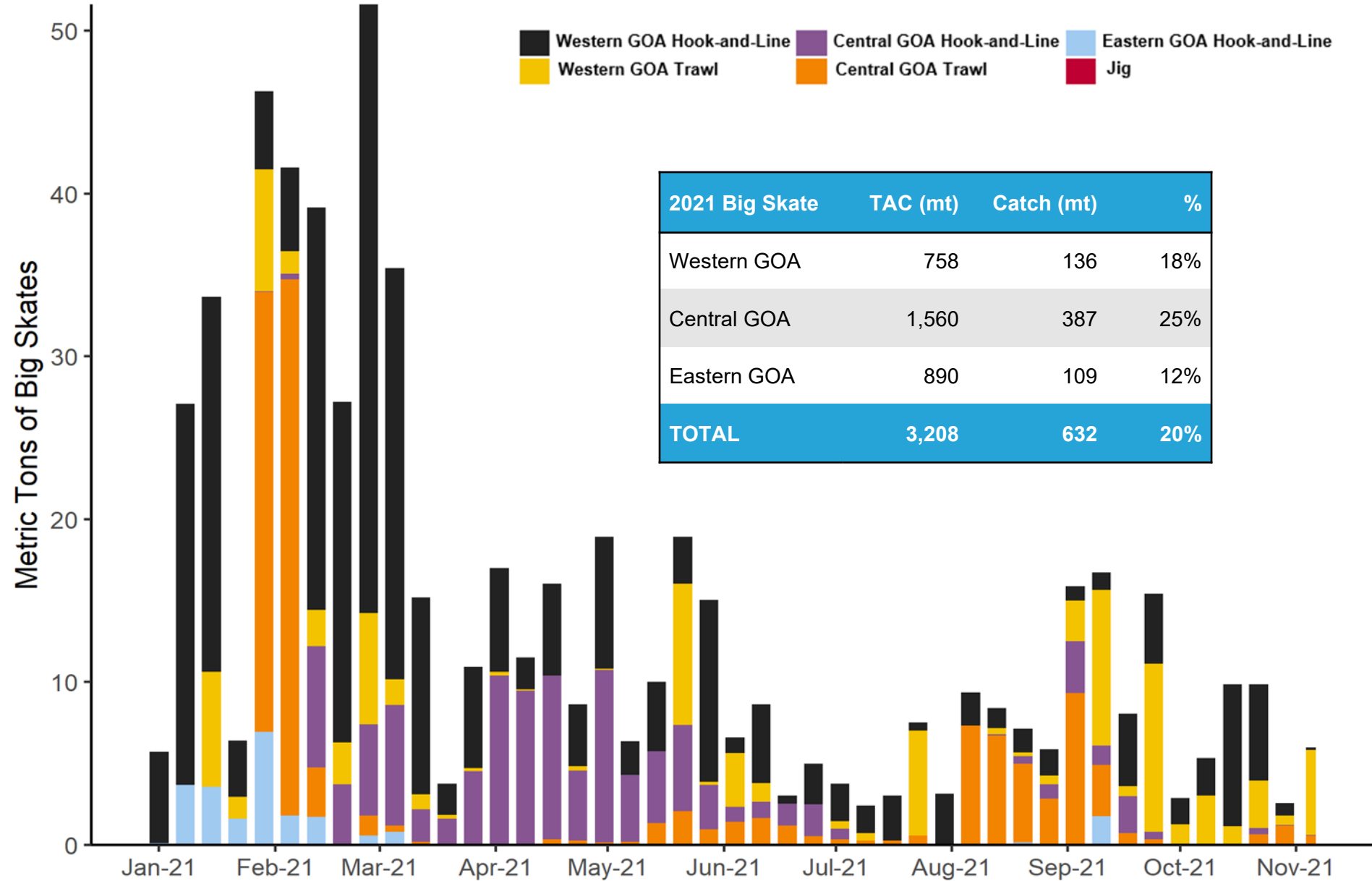
# 2021 Sablefish and Incidental Catch in Fixed Gear Sablefish Targets



# 2021 GOA Big Skate

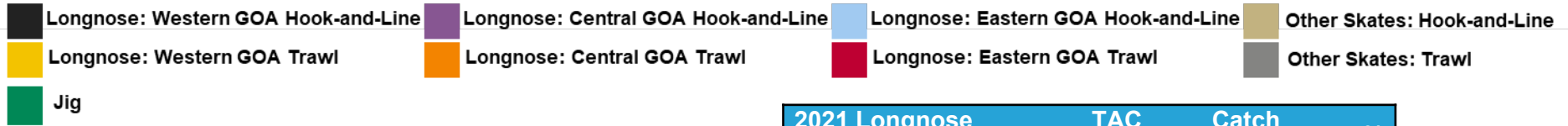


2021 Big Skate	TAC (mt)	Catch (mt)	%
Western GOA	758	136	18%
Central GOA	1,560	387	25%
Eastern GOA	890	109	12%
<b>TOTAL</b>	<b>3,208</b>	<b>632</b>	<b>20%</b>



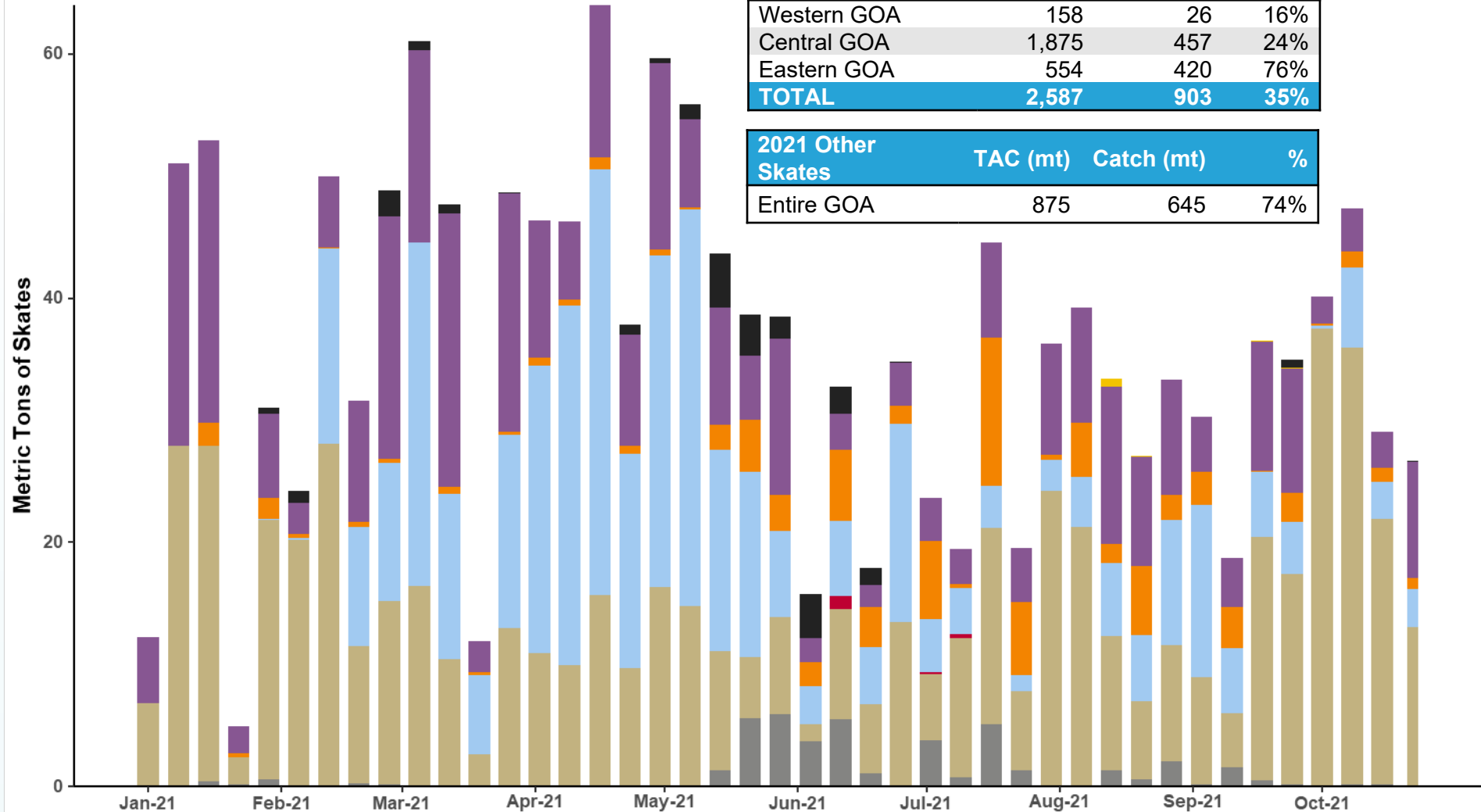


# 2021 GOA Longnose Skate and Other Skates



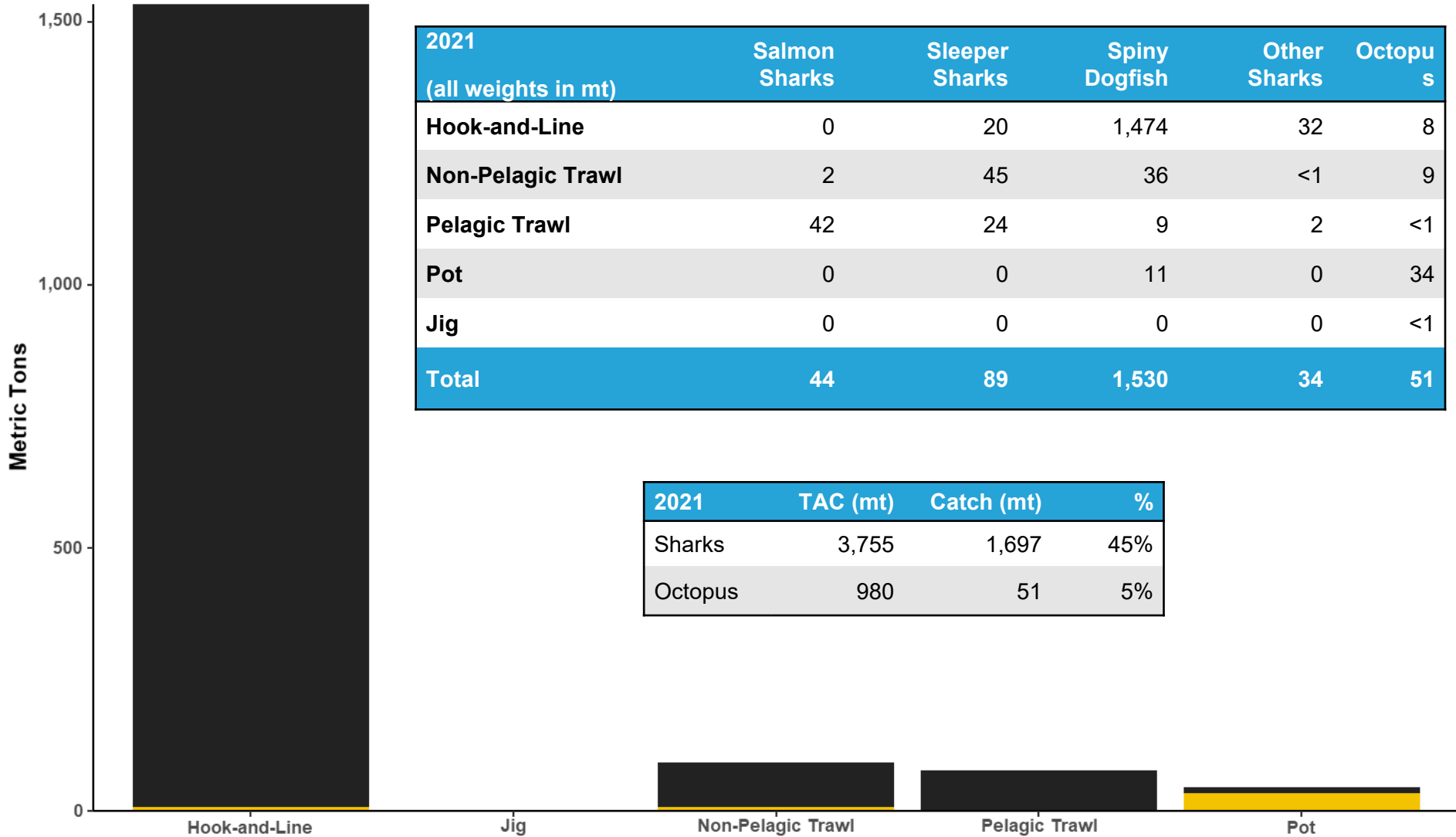
2021 Longnose Skate	TAC (mt)	Catch (mt)	%
Western GOA	158	26	16%
Central GOA	1,875	457	24%
Eastern GOA	554	420	76%
<b>TOTAL</b>	<b>2,587</b>	<b>903</b>	<b>35%</b>

2021 Other Skates	TAC (mt)	Catch (mt)	%
Entire GOA	875	645	74%



# 2021 GOA Sharks and Octopus

■ Sharks ■ Octopus

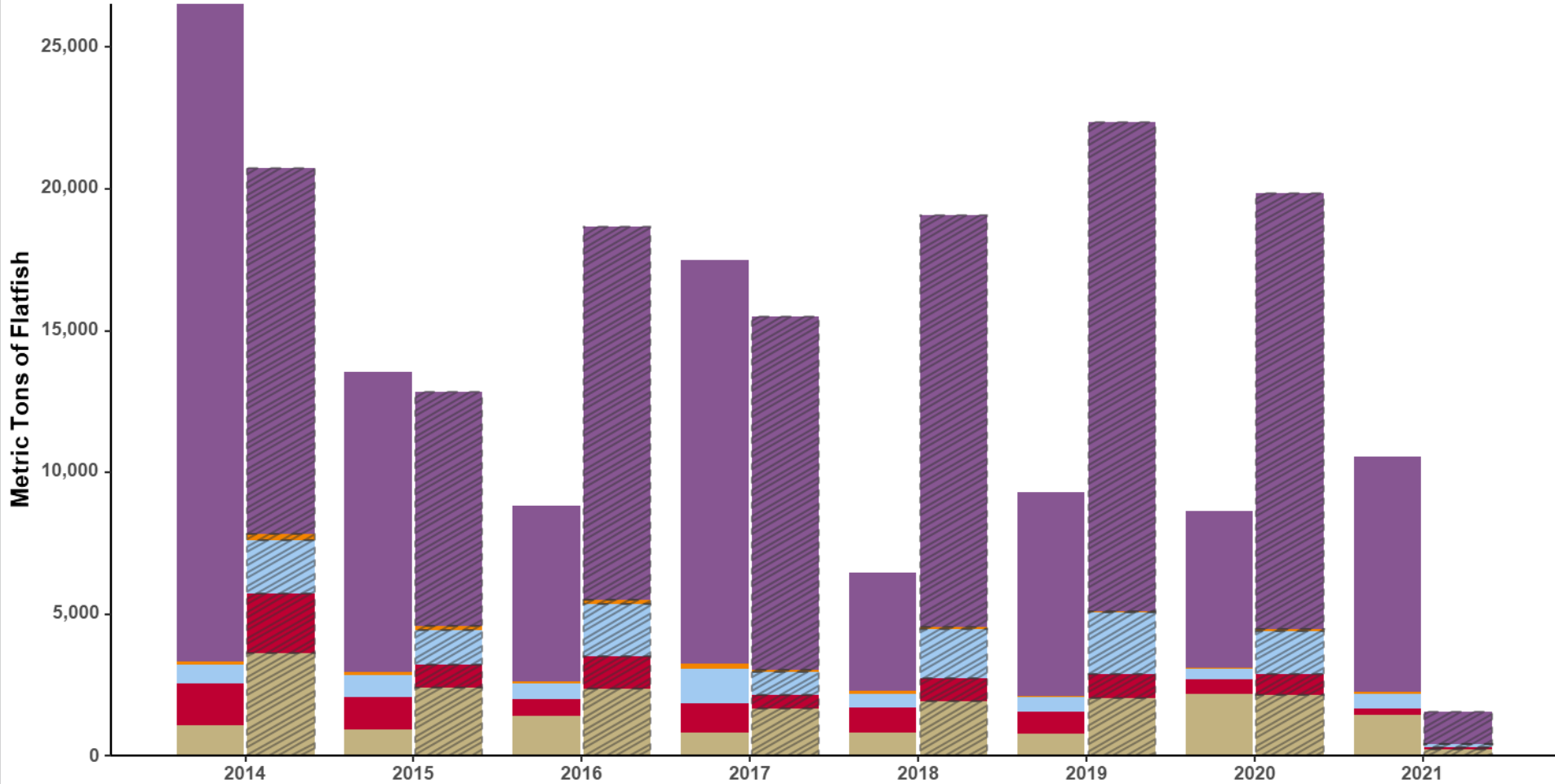


# 2021 GOA Groundfish Species Placed on Prohibited Species Status

2020				Date
Sablefish	GOA - Central 620/630	Catcher Processor	Trawl	August 18
Sablefish	GOA - Central 620/630	Catcher Vessel	Trawl	August 18
Pacific Cod	GOA - Central 620/630	Catcher Processor	Trawl	October 1
Pacific Cod	GOA - Central 620/630	Catcher Vessel	Trawl	October 1

2021				Date
Pacific Cod	GOA - Central 620/630	Catcher Processor	Trawl	July 8
Other Rockfish	GOA - Western 610	All	Trawl,Hook-and-Line,Pot,Jig	August 30
Other Rockfish	GOA - Central 620/630	All	Trawl,Hook-and-Line,Pot,Jig	August 30

# GOA Trawl Flatfish Catch by Species



# 2021 Flatfish and Skate Catch in the GOA

Species	Area	TAC (mt)	Total Catch (mt)	%
Arrowtooth Flounder	Western	14,500	332	2%
	Central	69,072	9,152	13%
Flathead Sole	Western	8,650	106	1%
	Central	15,400	555	4%
Rex Sole	Western	3,013	14	0%
	Central	8,912	270	3%
Shallow Water Flatfish	Western	13,250	26	0%
	Central	28,082	1,655	6%
Deep Water Flatfish	Western	225	1	0%
	Central	1,914	79	4%
Big Skate	Western	758	136	18%
	Central	1,560	389	25%
	Eastern	890	109	12%
Longnose Skate	Western	158	26	16%
	Central	1,875	457	24%
	Eastern	554	420	76%
Other Skate	GOA	875	645	74%



Big Skate



Rex Sole

# GOA Trawl Groundfish Retained and Discarded

2020 Trawl	Retained	Discarded	% Retained	2021 Trawl	Retained	Discarded	% Retained
Pollock	104,620	538	99%	Pollock	97,563	1,198	99%
Northern Rockfish	2,352	32	99%	Northern Rockfish	2,341	36	98%
Pacific Ocean Perch	24,046	1,145	95%	Pacific Ocean Perch	27,877	573	98%
Dusky Rockfish	2,132	55	97%	Dusky Rockfish	2,813	105	96%
Rougheye Rockfish	203	5	98%	Rougheye Rockfish	215	9	96%
Thornyhead Rockfish	192	11	94%	Thornyhead Rockfish	137	9	94%
Atka Mackerel	514	94	85%	Atka Mackerel	833	107	89%
Rex Sole	1,181	57	95%	Rex Sole	245	40	86%
Arrowtooth Flounder	19,856	1,073	95%	Arrowtooth Flounder	8,117	1,325	86%
Pacific Cod *	2,347	1,080	68%	Pacific Cod *	4,987	819	86%
Shortraker Rockfish	254	11	96%	Shortraker Rockfish	236	51	82%
Flathead Sole	1,865	46	98%	Flathead Sole	529	128	81%
Shallow Water Flatfish	4,142	207	95%	Shallow Water Flatfish	1,331	335	80%
Sablefish *	1,088	1,243	47%	Sablefish	1,041	450	70%
Other Rockfish	384	148	72%	Other Rockfish *	635	361	64%
Skates	741	223	77%	Skates	114	121	48%
Deep Water Flatfish	54	42	56%	Deep Water Flatfish	17	55	23%
Other Species	55	229	19%	Other Species	20	150	12%
<b>TOTAL</b>	<b>166,025</b>	<b>6,239</b>	<b>96%</b>	<b>TOTAL</b>	<b>149,050</b>	<b>5,871</b>	<b>96%</b>

Sorted by 2021 species' percent retained.

\* Species on prohibited retention status.

'Other Species' includes sharks and octopus.

Sorted by species' percent retained.

\* Species on prohibited retention status.

'Other Species' includes sharks and octopus.



# GOA Fixed Gear Groundfish Retained and Discarded

2020 Hook-and-Line	Retained	Discarded	% Retained	2021 Hook-and-Line	Retained	Discarded	% Retained
Sablefish	4,978	428	92%	Sablefish	3,573	283	93%
Thornyhead Rockfish	228	24	91%	Thornyhead Rockfish	113	11	91%
Pacific Cod	85	373	19%	Pacific Cod	3,012	426	88%
Demersal Shelf Rockfish	86	7	93%	Demersal Shelf Rockfish	87	12	87%
Rougeye Rockfish	131	34	79%	Rougeye Rockfish	92	43	68%
Shortraker Rockfish	119	101	54%	Shortraker Rockfish	85	99	46%
Other Rockfish	68	275	20%	Other Rockfish *	95	127	43%
Other Species	1	14	6%	Other Species	16	56	22%
Skates	12	1,064	1%	Skates	118	2,289	5%
Arrowtooth Flounder	3	65	4%	Arrowtooth Flounder	1	57	2%
Shark	1	1,249	0%	Shark	0	1,526	0%
<b>TOTAL</b>	<b>5,713</b>	<b>3,634</b>	<b>61%</b>	<b>TOTAL</b>	<b>7,191</b>	<b>4,561</b>	<b>61%</b>

Sorted by 2021 species' percent retained.

\* Species on prohibited retention status.

'Other Species' includes Atka mackerel, flatfish, octopus, and pollock.

Sorted by species' percent retained.

\* Species on prohibited retention status.

'Other Species' includes Atka mackerel, flatfish, octopus, and pollock.

2020 Pot	Retained	Discarded	% Retained	2021 Pot	Retained	Discarded	% Retained
Pacific Cod	7	23	23%	Pacific Cod	3,043	10	100%
Sablefish	4,620	136	97%	Sablefish	8,763	179	98%
Octopus	12	2	85%	Octopus	19	15	57%
Other Species	57	173	25%	Other Species	82	123	40%
<b>TOTAL</b>	<b>4,696</b>	<b>334</b>	<b>93%</b>	<b>TOTAL</b>	<b>11,908</b>	<b>327</b>	<b>97%</b>

Sorted by 2021 species' percent retained.

\* Species on prohibited retention status.

'Other Species' includes pollock, flatfish, rockfish, and sharks.

Sorted by species' percent retained.

\* Species on prohibited retention status.

'Other Species' includes pollock, flatfish, rockfish, and sharks.

# 2021 GOA Salmon, Crab, and Herring PSC

Chinook Salmon	Total Catch (#)	Limit (#)	%
Pollock Western GOA	2,753	6,684	41%
Pollock Central GOA	7,323	16,966	43%
Catcher Vessel Non-pollock/Non-Rockfish Program	3,830	4,410	87%
Catcher Vessel Rockfish Program	1,061	1,200	88%
Catcher Processors	1,427	4,080	35%
<b>TOTAL</b>	<b>16,394</b>	<b>33,340</b>	<b>49%</b>
Pollock 640	123	n/a	n/a
Non-trawl Gear	0	n/a	n/a



Chinook Salmon

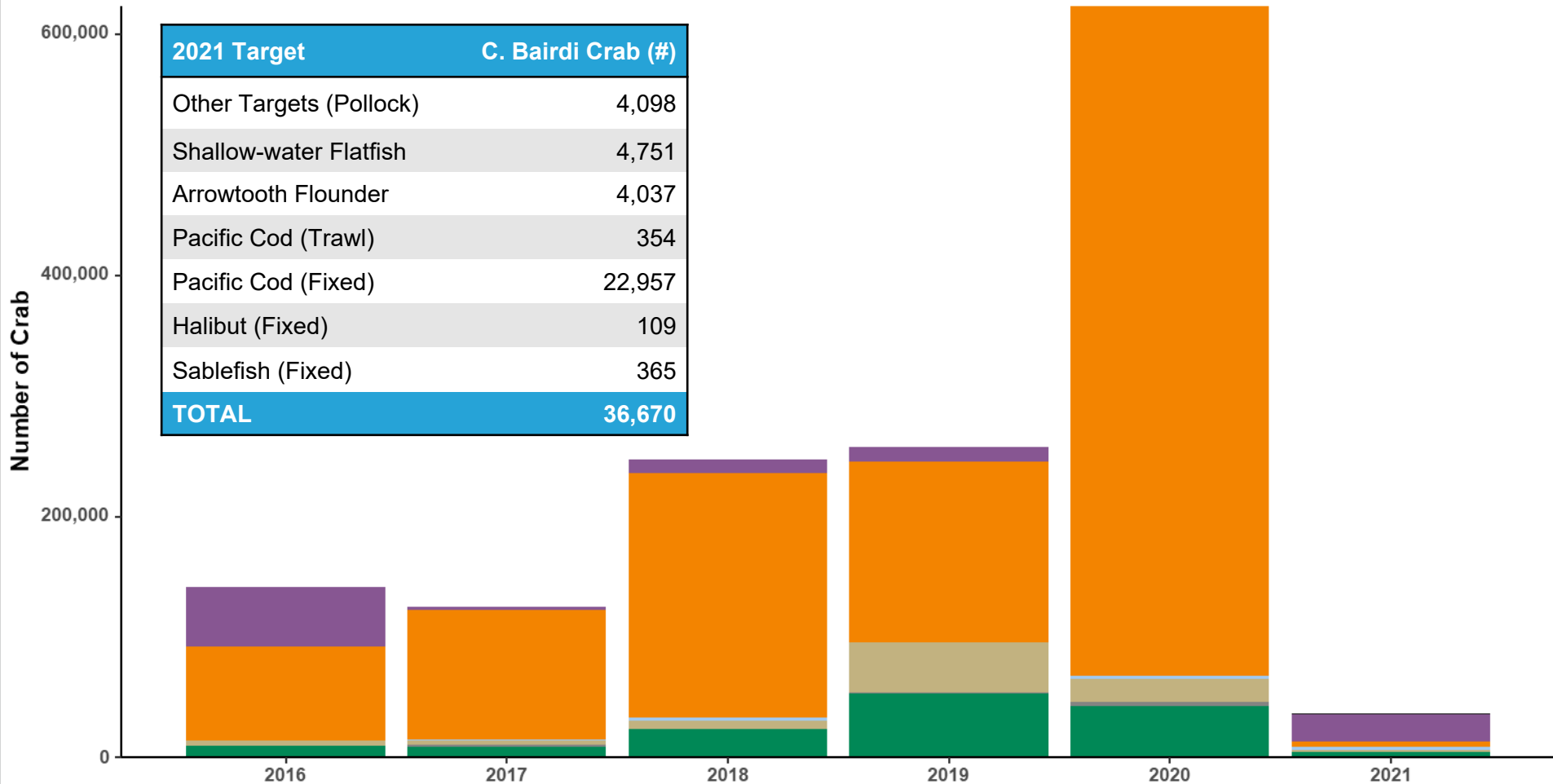
Other PSC Species	2020	2021
Non-Chinook Salmon (#)	3,429	3,763
Trawl Bairdi Tanner (#)	623,012	13,240
Fixed Gear Bairdi Tanner (#)	99	23,431
Red King Crab (#)	5	3
Golden King Crab (#)	233	398
Herring (mt)	67	18



Golden King Crab

Crab and salmon PSC is reported in number of animals. Herring PSC is reported in metric tons.

# GOA C. Bairdi Tanner Crab Incidental Catch by Targets



2021 Target	C. Bairdi Crab (#)
Other Targets (Pollock)	4,098
Shallow-water Flatfish	4,751
Arrowtooth Flounder	4,037
Pacific Cod (Trawl)	354
Pacific Cod (Fixed)	22,957
Halibut (Fixed)	109
Sablefish (Fixed)	365
<b>TOTAL</b>	<b>36,670</b>

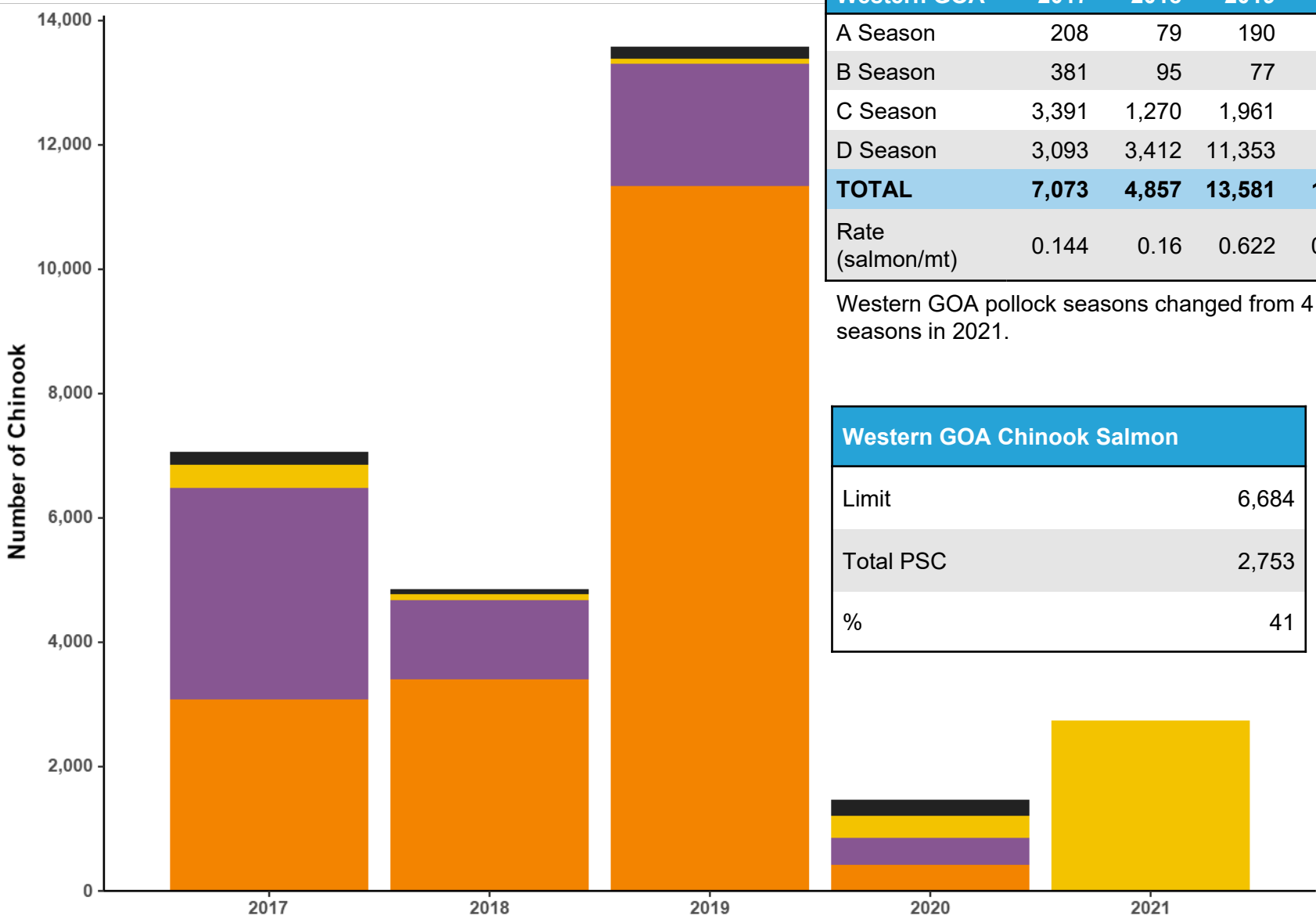
# Chinook Salmon PSC in Western GOA Pollock Fisheries

Western GOA	2017	2018	2019	2020	2021
A Season	208	79	190	257	0
B Season	381	95	77	345	2,753
C Season	3,391	1,270	1,961	441	n/a
D Season	3,093	3,412	11,353	426	n/a
<b>TOTAL</b>	<b>7,073</b>	<b>4,857</b>	<b>13,581</b>	<b>1,469</b>	<b>2,753</b>
Rate (salmon/mt)	0.144	0.16	0.622	0.077	0.152

Western GOA pollock seasons changed from 4 seasons to 2 seasons in 2021.

Western GOA Chinook Salmon	
Limit	6,684
Total PSC	2,753
%	41

- A Season
- B Season
- C Season
- D Season

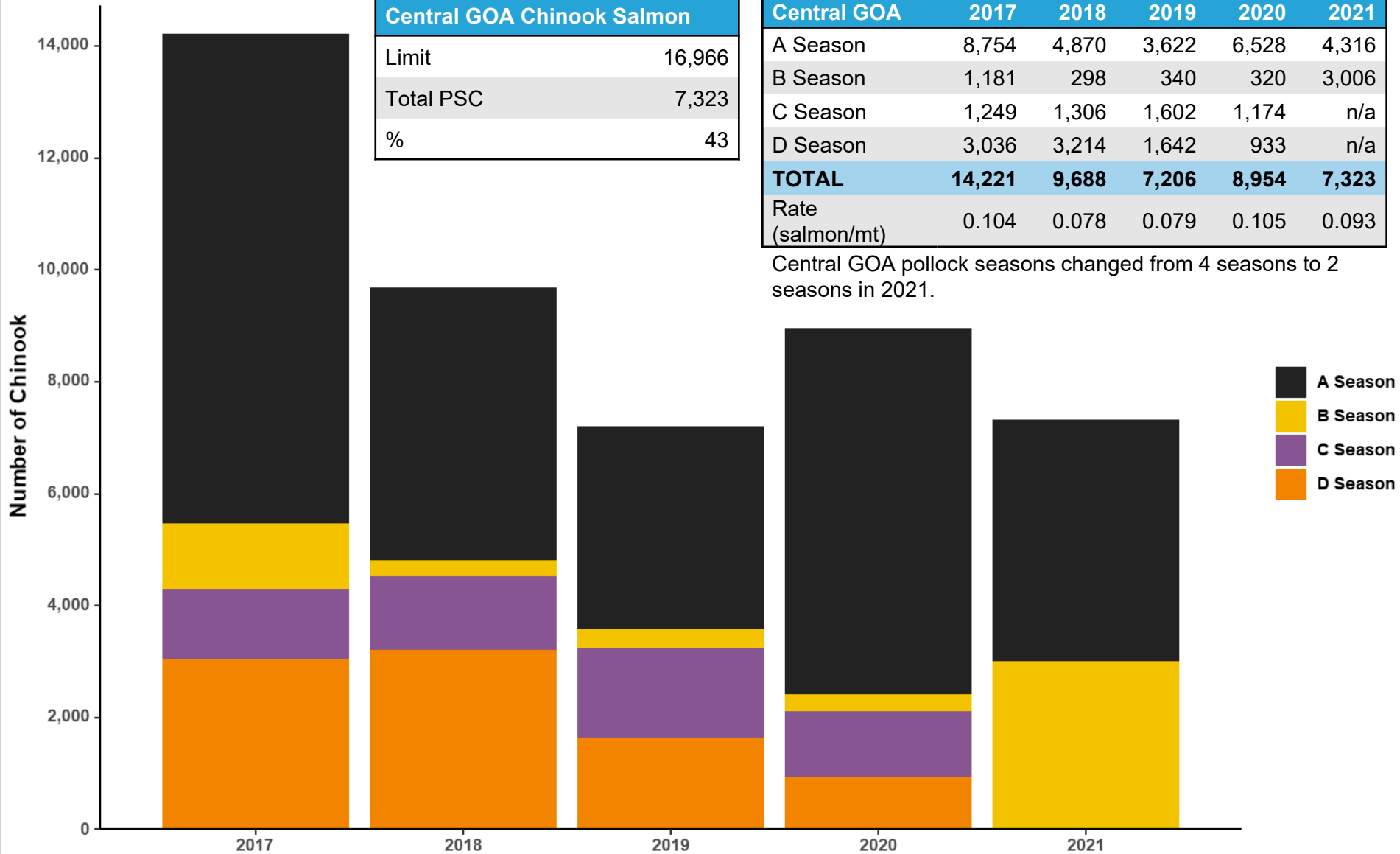


# Chinook Salmon PSC in Central GOA Pollock Fisheries

Central GOA Chinook Salmon	
Limit	16,966
Total PSC	7,323
%	43

Central GOA	2017	2018	2019	2020	2021
A Season	8,754	4,870	3,622	6,528	4,316
B Season	1,181	298	340	320	3,006
C Season	1,249	1,306	1,602	1,174	n/a
D Season	3,036	3,214	1,642	933	n/a
<b>TOTAL</b>	<b>14,221</b>	<b>9,688</b>	<b>7,206</b>	<b>8,954</b>	<b>7,323</b>
Rate (salmon/mt)	0.104	0.078	0.079	0.105	0.093

Central GOA pollock seasons changed from 4 seasons to 2 seasons in 2021.



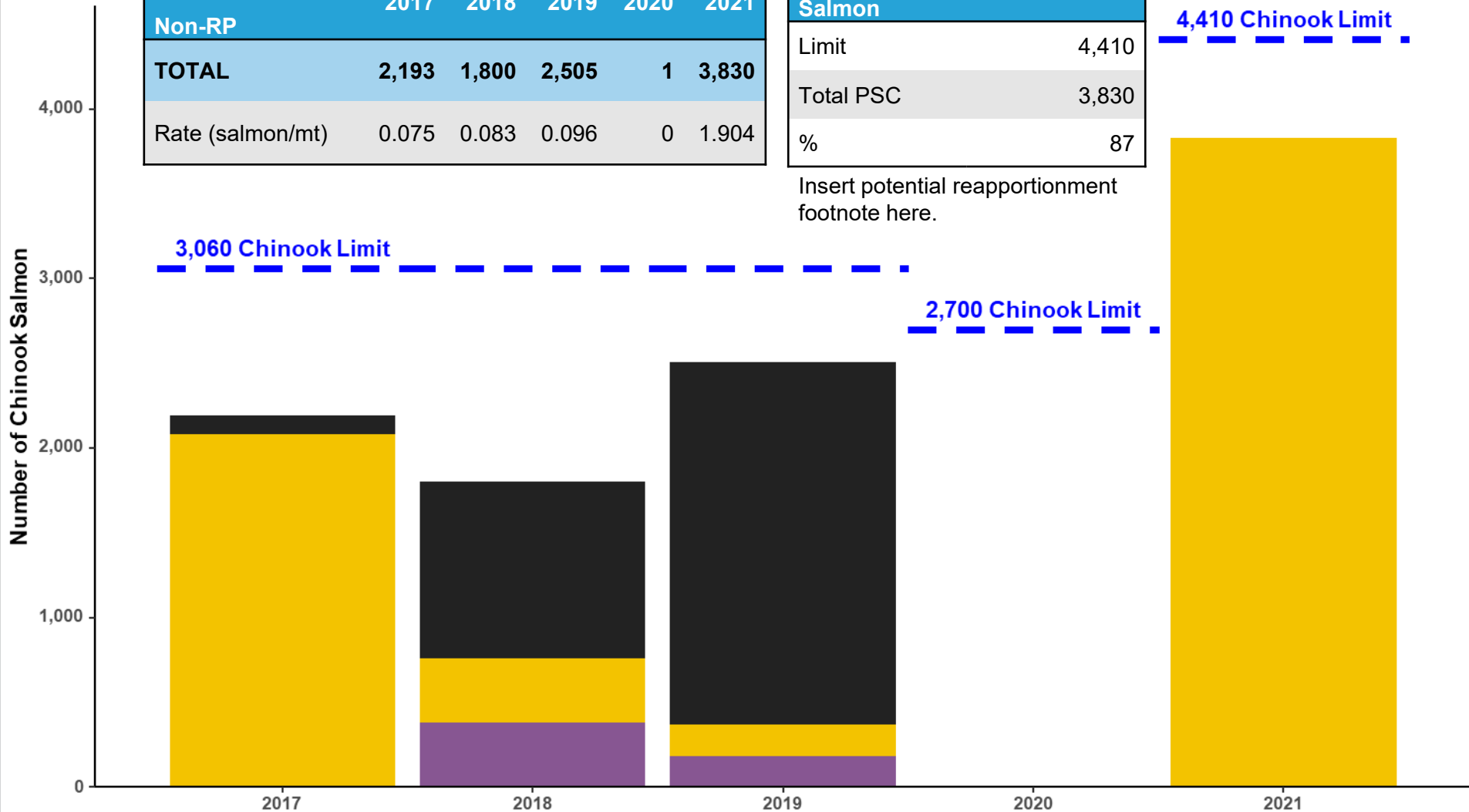
# Chinook Salmon PSC in Non-Pollock / Non-Rockfish Program by CV

Deep-Water Flatfish
  Pacific Cod
  Shallow-Water Flatfish
  Other

Non-Pollock/ Non-RP	2017	2018	2019	2020	2021
<b>TOTAL</b>	<b>2,193</b>	<b>1,800</b>	<b>2,505</b>	<b>1</b>	<b>3,830</b>
Rate (salmon/mt)	0.075	0.083	0.096	0	1.904

Non-Pollock/Non-RP Chinook Salmon	
Limit	4,410
Total PSC	3,830
%	87

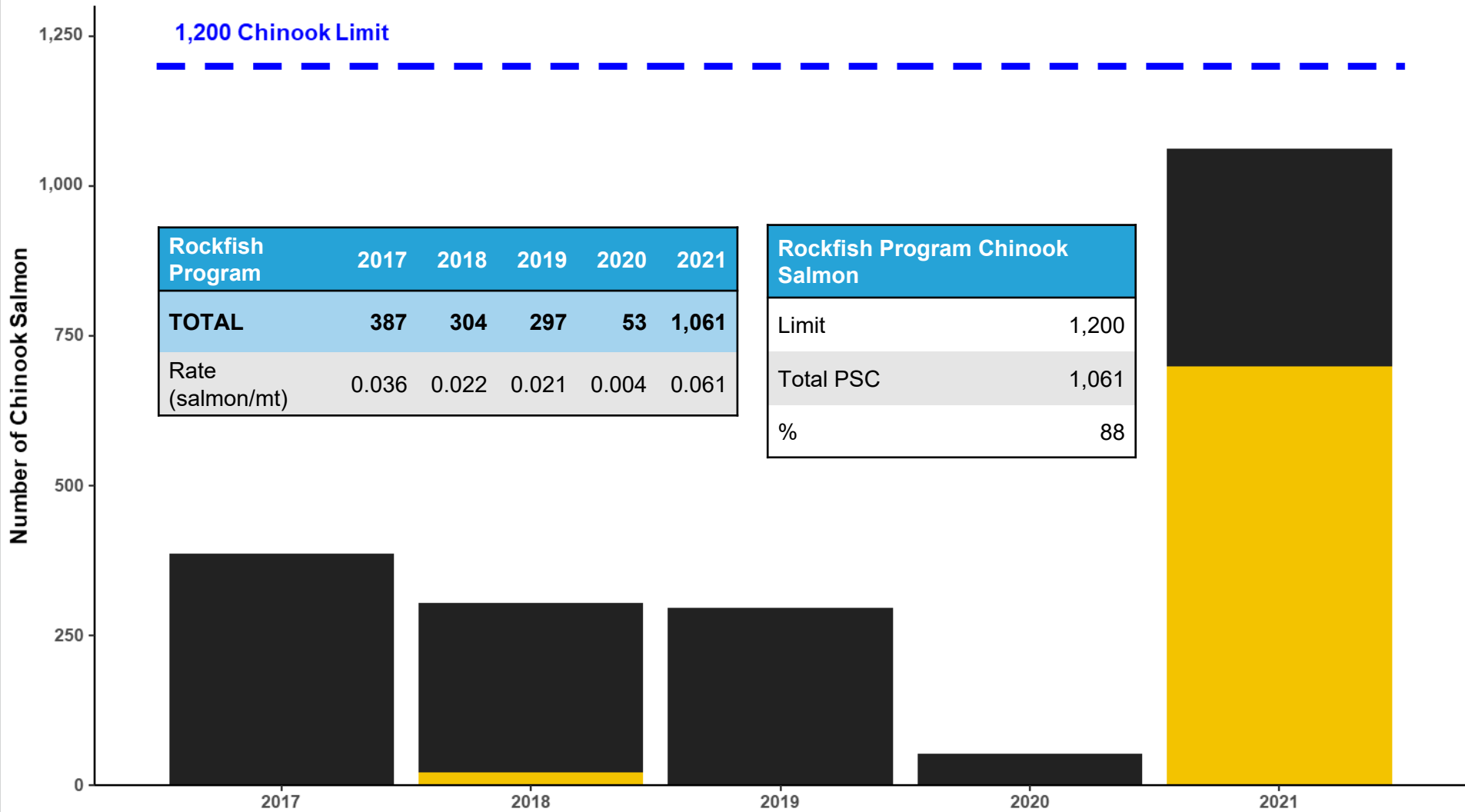
Insert potential reapportionment footnote here.





# Chinook Salmon PSC in Rockfish Program by Catcher Vessels

Rockfish
  Other



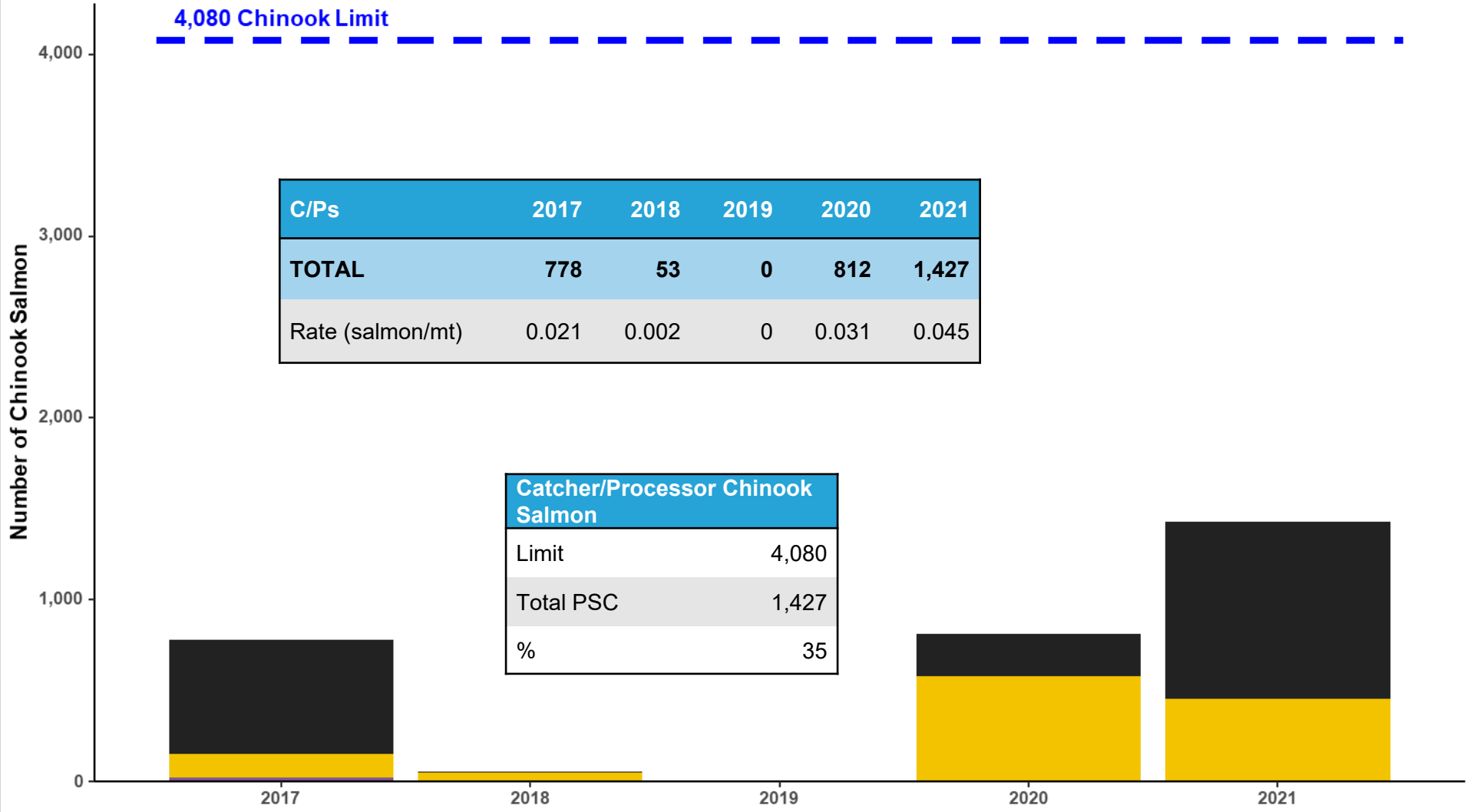
# Chinook Salmon PSC by Catcher/Processors

Deep-Water Flatfish
  Rockfish
  Shallow-Water Flatfish
  Other

4,080 Chinook Limit

C/Ps	2017	2018	2019	2020	2021
<b>TOTAL</b>	<b>778</b>	<b>53</b>	<b>0</b>	<b>812</b>	<b>1,427</b>
Rate (salmon/mt)	0.021	0.002	0	0.031	0.045

Catcher/Processor Chinook Salmon	
Limit	4,080
Total PSC	1,427
%	35



# 2021 GOA Halibut Catch

Trawl Halibut	Total Discard (mt)	Mortality (mt)	Mortality Limit (mt)	%	Fixed Gear Halibut (mt)	Retained	Discard	Mortality	Limit	%
Pollock	96	74			IFQ Halibut Fishery	8,657	3,391	543	n/a	n/a
Pacific Cod	37	25			IFQ Sablefish Fishery		203	26	n/a	n/a
Rockfish/Sablefish	188	117	n/a	n/a	Pacific Cod/Other Groundfish Targets - HAL		469	63	257	25%
Arrowtooth Flounder	199	99			Pacific Cod/Other Groundfish Targets - Pot		45	5	n/a	n/a
Shallow Water Flatfish	25	21			<b>TOTAL</b>	<b>8,657</b>	<b>4,108</b>	<b>637</b>	<b>n/a</b>	<b>n/a</b>
<b>TOTAL</b>	<b>544</b>	<b>335</b>	<b>1,706</b>	<b>20%</b>						

All catch, retained and discarded, is in round weight metric tons.

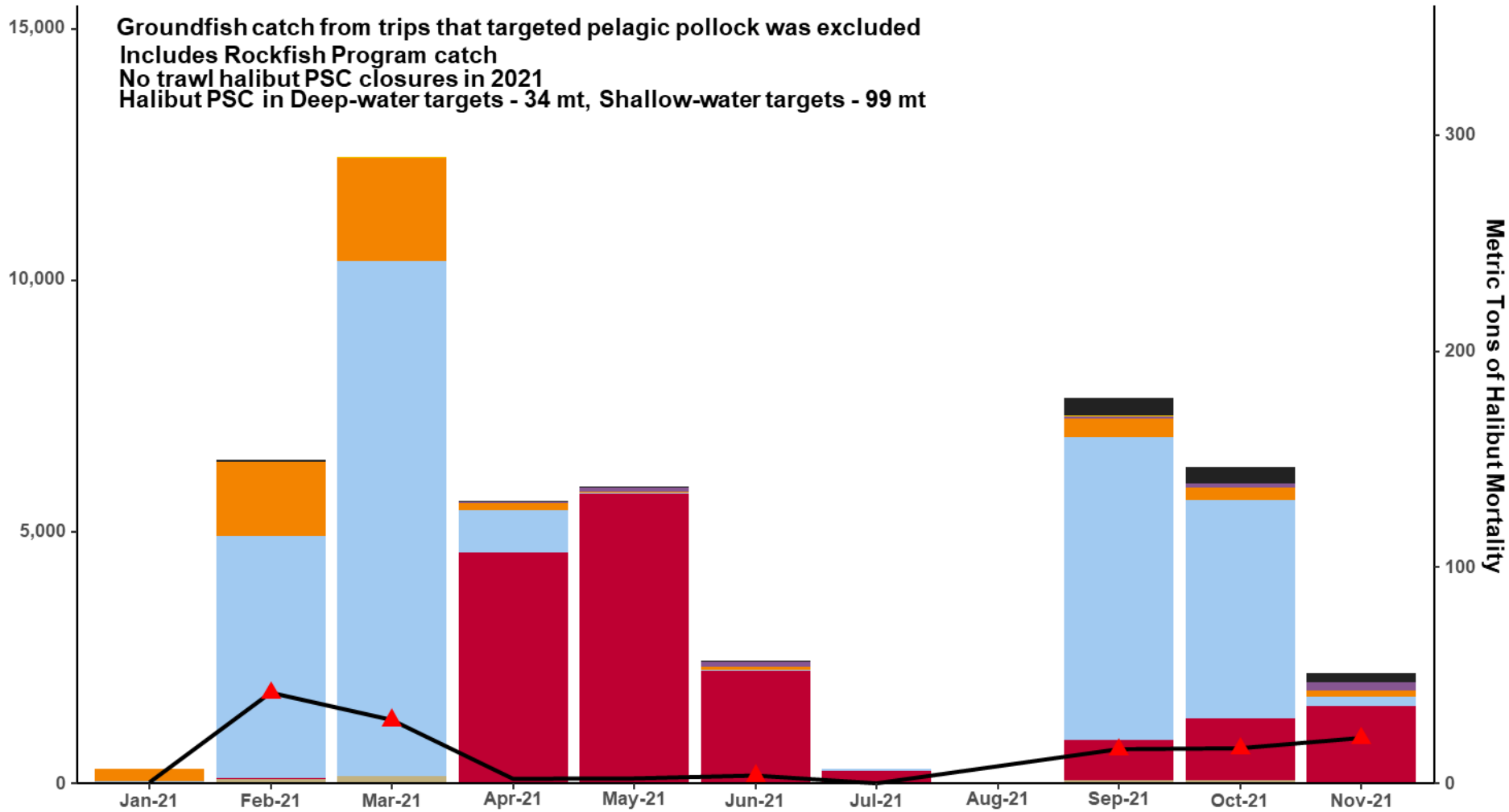
Halibut mortality rate in IFQ Halibut is 16% (Gilroy, H.L. 2012. Incidental mortality of halibut in the commercial halibut fishery (Wastage). Int. Pac. Halibut Comm. Report of Assessment and Research Activities).

IFQ Sablefish and Pacific Cod/Other groundfish target discard mortality rates are 15% for HAL CPs, 13% for HAL CVs, and 10% for pot CPs and CVs.

Includes 104 mt deck sorted halibut mortality by 5 trawl CPs.

Discard mortality rates are 100% for pelagic trawl, 84% for non-pelagic trawl CPs and motherships, 69% for non-pelagic trawl CVs, and 60% for Rockfish Program CVs.

# 2021 GOA Catcher Vessel Trawl Catch and Halibut Mortality





# 2021 Trawl Halibut Mortality

Category	Season	Start Date	End Date	Limit (mt)	Total Mortality (mt)	%
Deep Water Species	1	Jan 20	Mar 31	0	0	n/a
	2	Apr 01	Jun 30	73	72	99%
	3	Jul 01	Jul 31	823	20	2%
	4	Aug 01	Oct 01	75	44	58%
	<b>TOTAL</b>			<b>971</b>	<b>136</b>	<b>14%</b>
Shallow Water Species	1	Jan 20	Mar 31	71	72	101%
	2	Apr 01	Jun 30	5	5	102%
	3	Jul 01	Jul 31	159	9	6%
	4	Aug 01	Oct 01	53	15	29%
	<b>TOTAL</b>			<b>288</b>	<b>101</b>	<b>35%</b>
<b>Rockfish Program</b>	<b>TOTAL</b>			<b>191</b>	<b>78</b>	<b>41%</b>
<b>Season 5 Halibut Allocation</b>	<b>TOTAL</b>	<b>Oct 01</b>	<b>Dec 31</b>	<b>256</b>	<b>22</b>	<b>8%</b>
<b>Halibut Mortality</b>	<b>TOTAL</b>			<b>1,706</b>	<b>335</b>	<b>20%</b>

Includes reallocation between Deep-water and Shallow-water in July.

Shallow-water species fishery – pollock, Pacific cod, shallow-water flatfish, flathead sole, Atka mackerel, skates, sharks, octopus.  
 Deep-water species fishery – sablefish, deep-water flatfish, rex sole, arrowtooth flounder, rockfish.

# 2021 GOA Reduction in Halibut Mortality Compared to 5 year Average

	Sector	2016-2020 Average (mt)	2021 (mt)	% Change (mt)	2016-2020 Rate *	2021 Rate *	% Change in Rate
<b>Hook-and-Line</b>	Catcher/Processors	44	17	-62%	10.57	11.26	7%
	Catcher Vessels	77	47	-40%	25.85	16.50	-36%
<b>Hook-and-Line</b>	<b>Total</b>	<b>121</b>	<b>63</b>	<b>-48%</b>	<b>17.81</b>	<b>14.70</b>	<b>-17%</b>
<b>Trawl CVs</b>	Central GOA CVs (NPT)	789	78	-90%	21.32	8.03	-62%
	Western GOA CVs (NPT)	44	23	-48%	8.55	12.06	41%
	Pelagic Trawl CVs	22	32	43%	0.15	0.29	95%
<b>Trawl CVs</b>	<b>Total</b>	<b>855</b>	<b>133</b>	<b>-84%</b>	<b>4.39</b>	<b>1.08</b>	<b>-75%</b>
<b>Trawl CPs</b>	<b>Total</b>	<b>279</b>	<b>203</b>	<b>-27%</b>	<b>8.99</b>	<b>5.98</b>	<b>-33%</b>
<b>All Sectors</b>	<b>Total</b>	<b>1,255</b>	<b>399</b>	<b>-68%</b>	<b>5.37</b>	<b>2.47</b>	<b>-54%</b>

\* Rate is kg of halibut / mt of groundfish

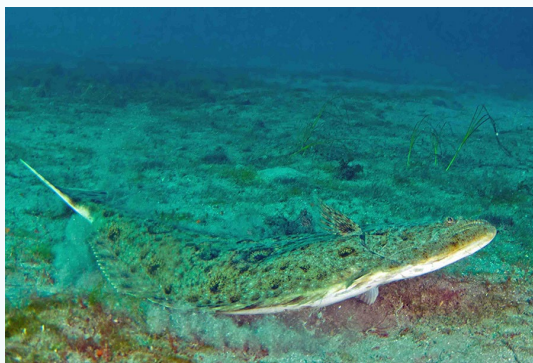




# 2021 GOA Reduction in Halibut Mortality Compared to 2020

Sector		2020 (mt)	2021 (mt)	% Change (mt)	2020 Rate *	2021 Rate *	% Change in Rate
Hook-and-Line	Catcher/Processors	0	17	n/a	n/a	11.26	n/a
	Catcher Vessels	3	47	1,411%	4.89	16.50	237%
Hook-and-Line	<b>Total</b>	<b>3</b>	<b>63</b>	<b>1,950%</b>	<b>4.89</b>	<b>14.70</b>	<b>201%</b>
Trawl CVs	Central GOA CVs (NPT)	585	78	-87%	17.65	8.03	-54%
	Western GOA CVs (NPT)	0	23	n/a	n/a	12.06	n/a
	Pelagic Trawl CVs	32	32	0%	0.28	0.29	2%
Trawl CVs	<b>Total</b>	<b>617</b>	<b>133</b>	<b>-79%</b>	<b>4.19</b>	<b>1.08</b>	<b>-74%</b>
Trawl CPs	<b>Total</b>	<b>171</b>	<b>203</b>	<b>19%</b>	<b>6.17</b>	<b>5.98</b>	<b>-3%</b>
All Sectors	<b>Total</b>	<b>791</b>	<b>399</b>	<b>-50%</b>	<b>4.51</b>	<b>2.47</b>	<b>-45%</b>

\* Rate is kg of halibut / mt of groundfish



# Acknowledgements

## BSAI and GOA

### Industry Reports:

#### Catcher Vessels

- 1,111 unique vessels with approximately 10,859 landings to 67 unique processors

#### Catcher/Processors

- 61 unique vessels fishing approximately 9,357 vessel days

#### Observer Program

- FMA staff
- All observers

#### Elandings Team

- ADF&G, IPHC, and Enforcement

#### Inseason Staff

- Mary Furuness
- Obren Davis
- Kurt Iverson
- Krista Milani (Dutch Harbor)
- Allyson Olds
- Steve Whitney

#### Information Services Staff

- Antigone Goetz
- Application Development Staff
- Contractors

#### Permits Staff

- Restricted Access Management

#### Catch Analysis Staff

- Jennifer Mondragon
- Jason Gasper
- Phil Ganz
- Cathy Tide
- Steve Lewis

#### Monitoring Staff

- Josh Keaton
- Bill Donaldson (Kodiak)
- Maggie Chan
- Amy Hadfield
- Melanie Rickett

#### Pacific State Marine Fisheries Commission – EM reviewers