



**NOAA  
FISHERIES**

**Alaska Region**

# Gulf of Alaska Inseason Management Report

**December 2017**

Catch data are through November 11, 2017

Management reports can be found at:

<https://alaskafisheries.noaa.gov/fisheries-data-reports?tid=286>

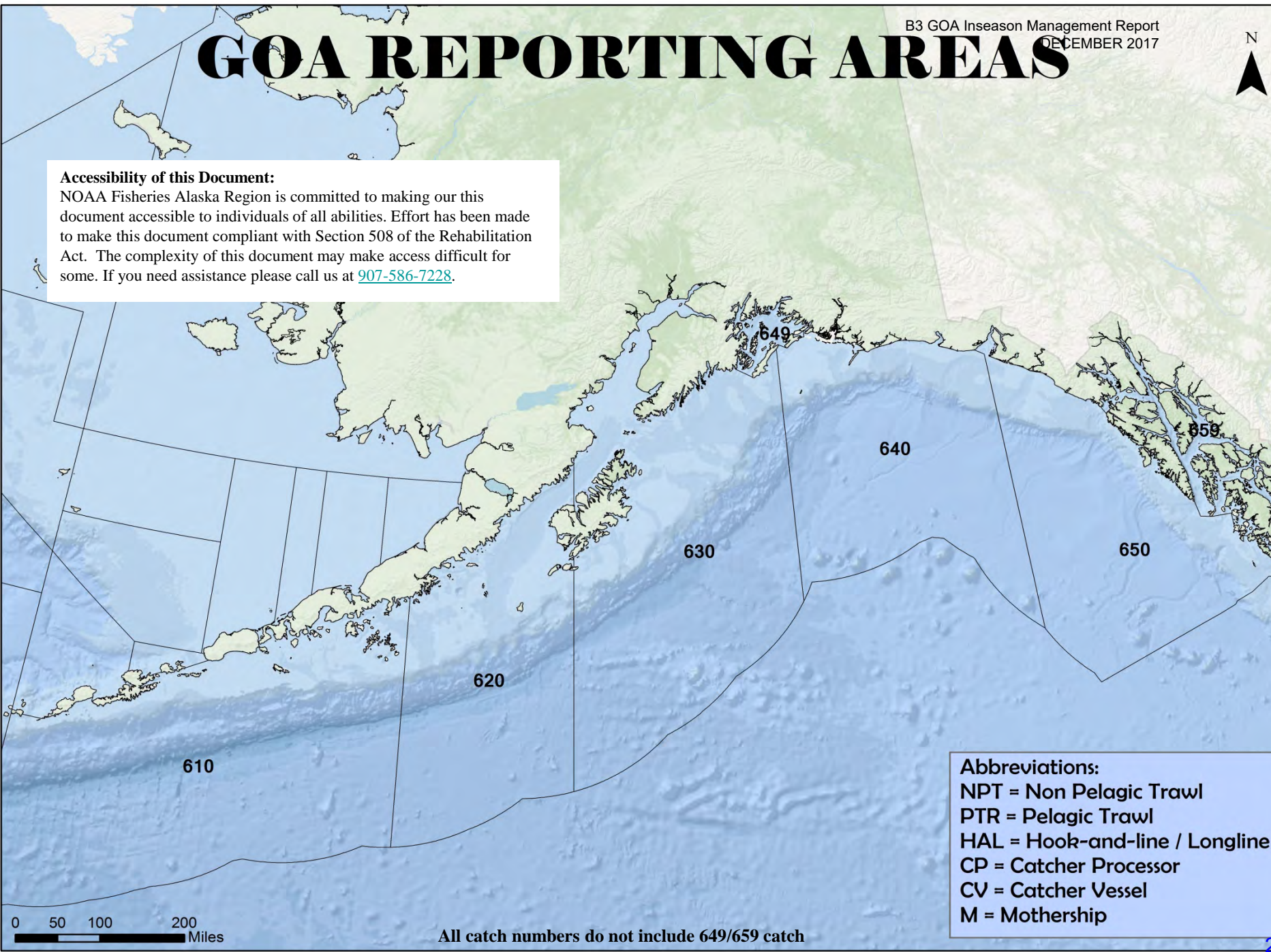
Report Prepared by:  
Josh Keaton  
November 2017



# GOA REPORTING AREAS

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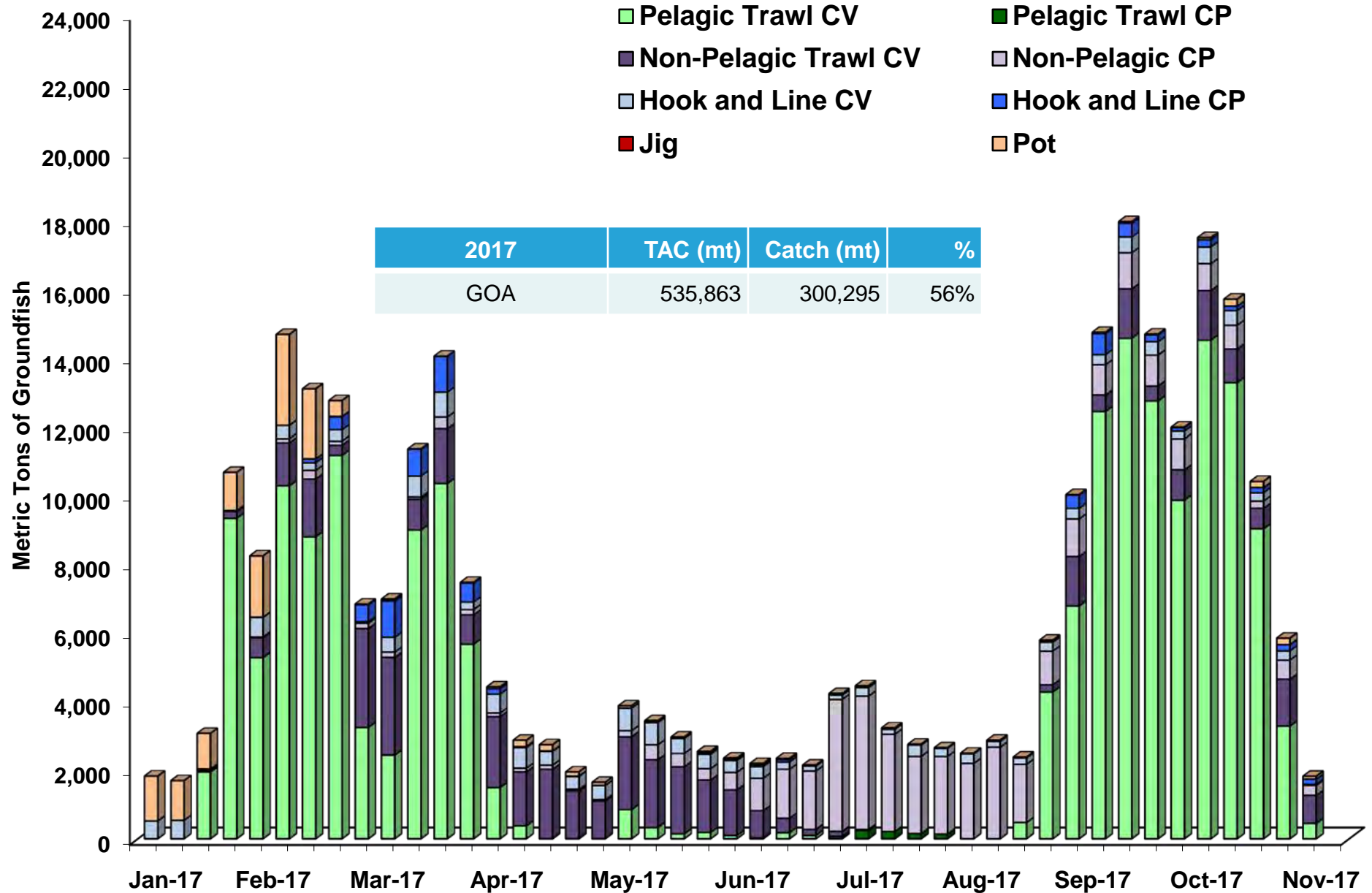
0 50 100 200  
Miles

All catch numbers do not include 649/659 catch

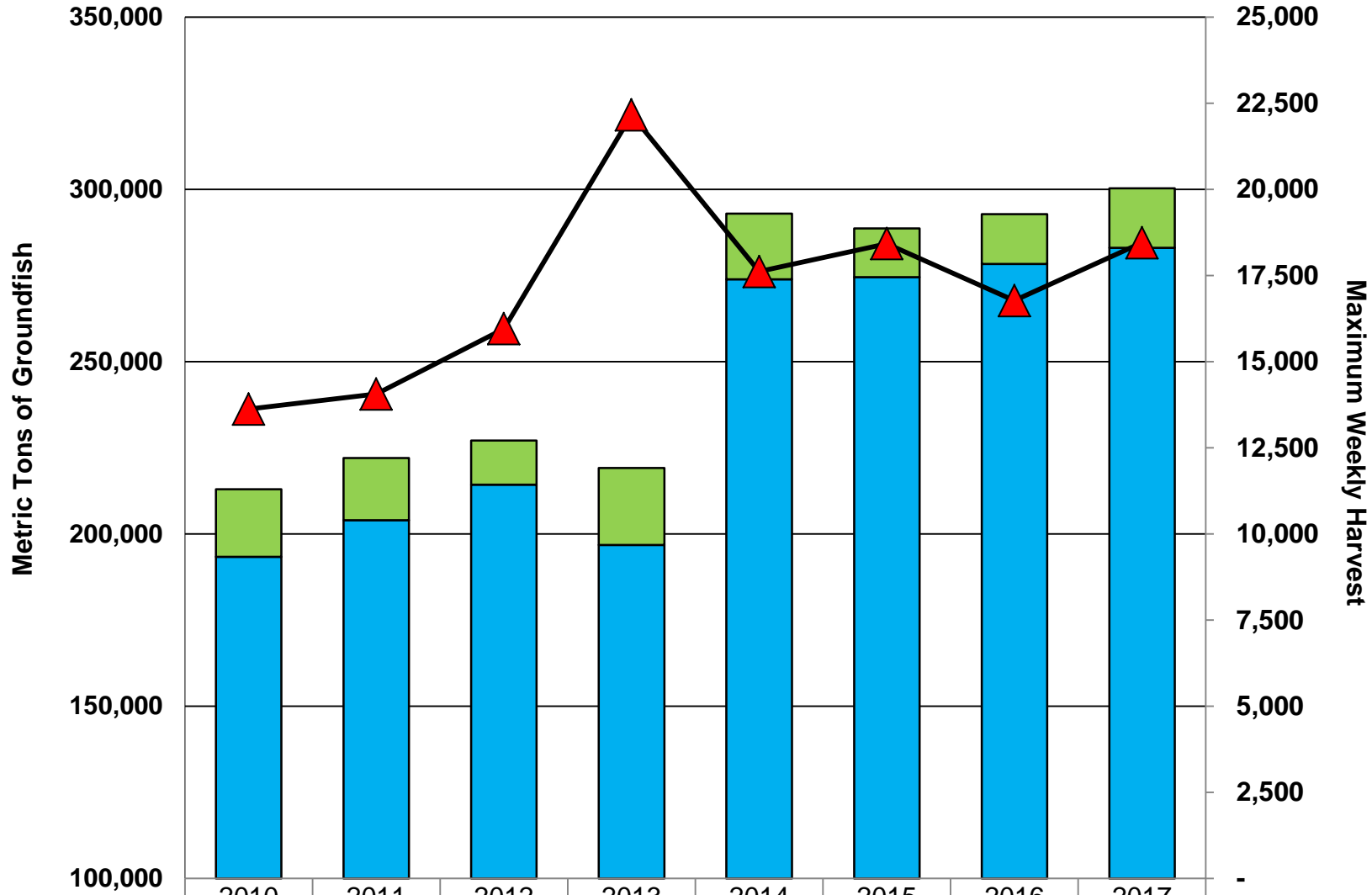
**Abbreviations:**  
NPT = Non Pelagic Trawl  
PTR = Pelagic Trawl  
HAL = Hook-and-line / Longline  
CP = Catcher Processor  
CV = Catcher Vessel  
M = Mothership

# 2017 GOA Total Groundfish Catch by Gear and Sector

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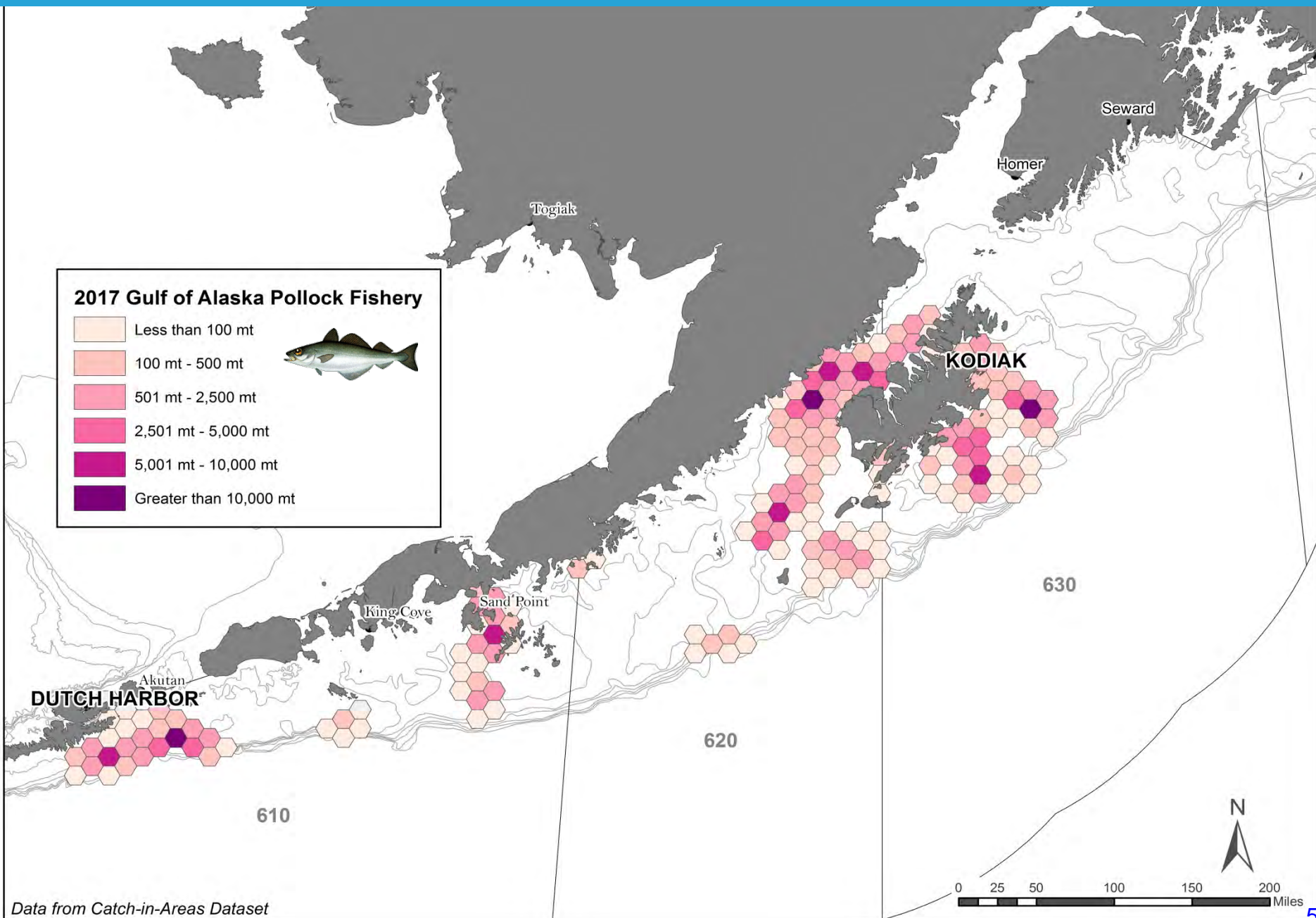
# GOA Total Groundfish Catch and Maximum Weekly Harvest



Discarded Catch	19,540	18,053	12,850	22,319	19,079	14,116	14,441	17,273
Retained Catch	193,407	203,998	214,294	196,803	273,905	274,537	278,381	283,022
Maximum Weekly Harvest	13,622	14,060	15,952	22,158	17,614	18,422	16,771	18,450

# 2017 Gulf of Alaska Pollock Directed Fishery

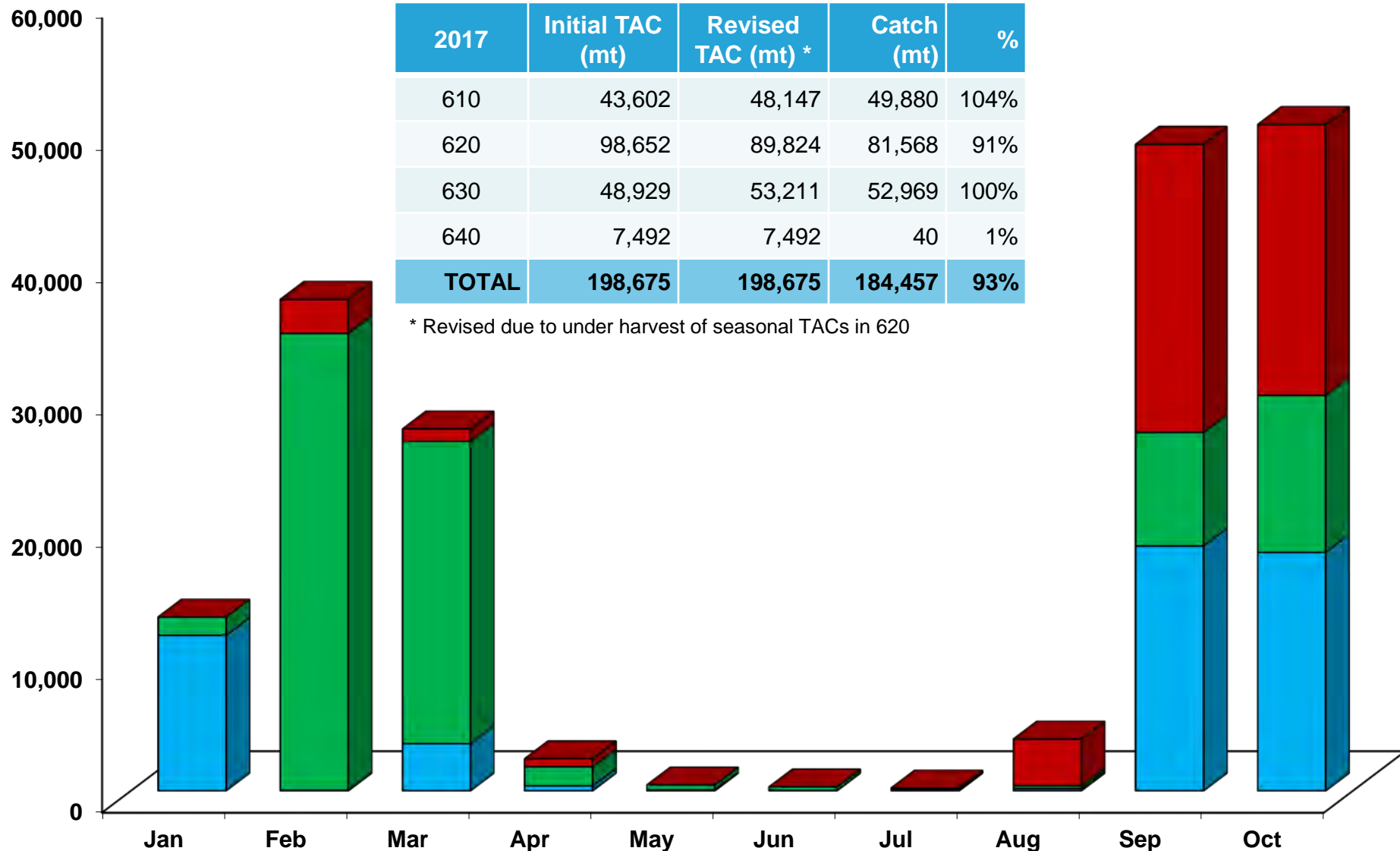
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Data from Catch-in-Areas Dataset

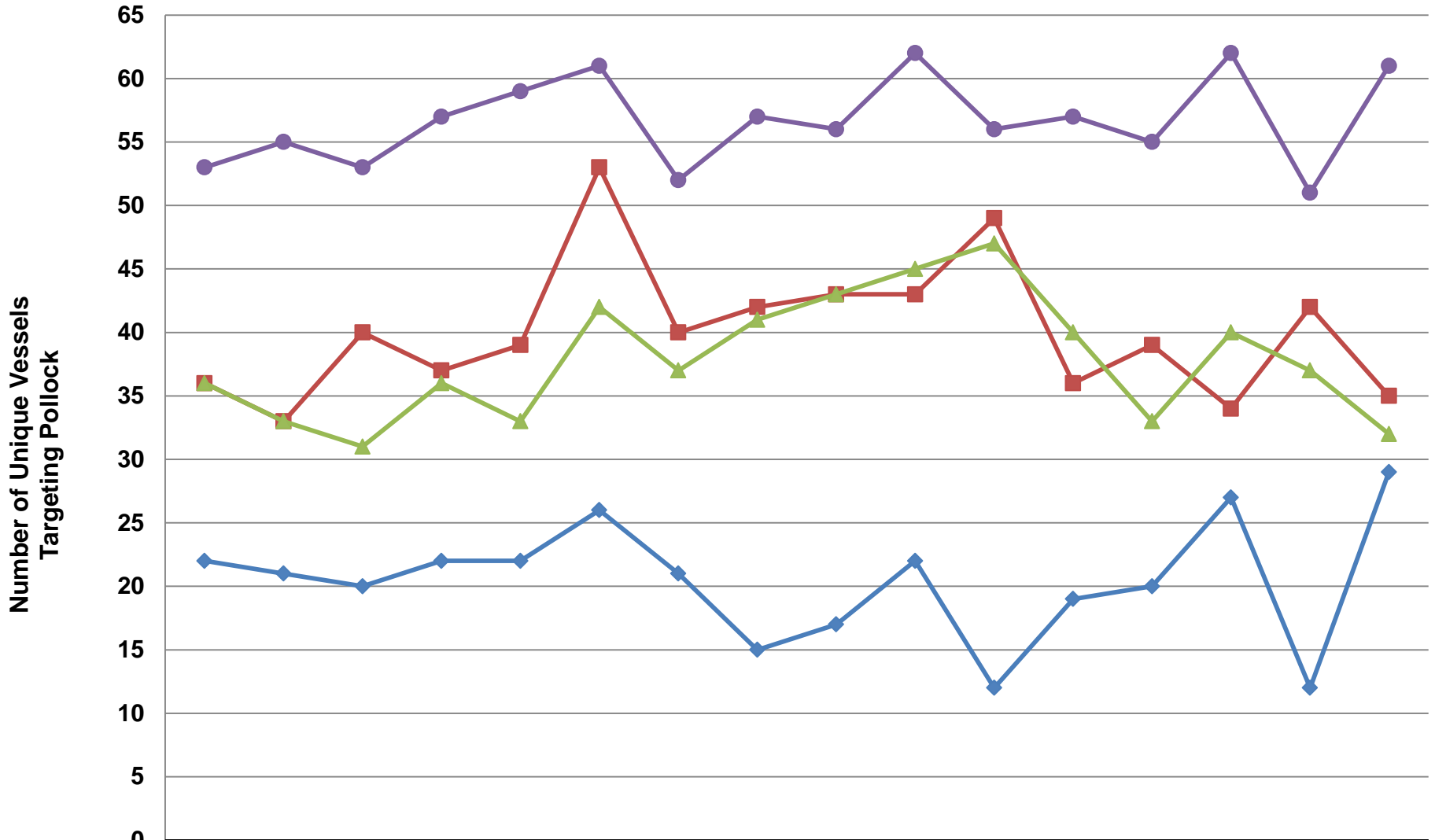
# 2017 Pollock Catch in the GOA

■ 610 ■ 620 ■ 630 ■ 640



# 2010 – 2017 Counts of Vessels Targeting GOA Pollock

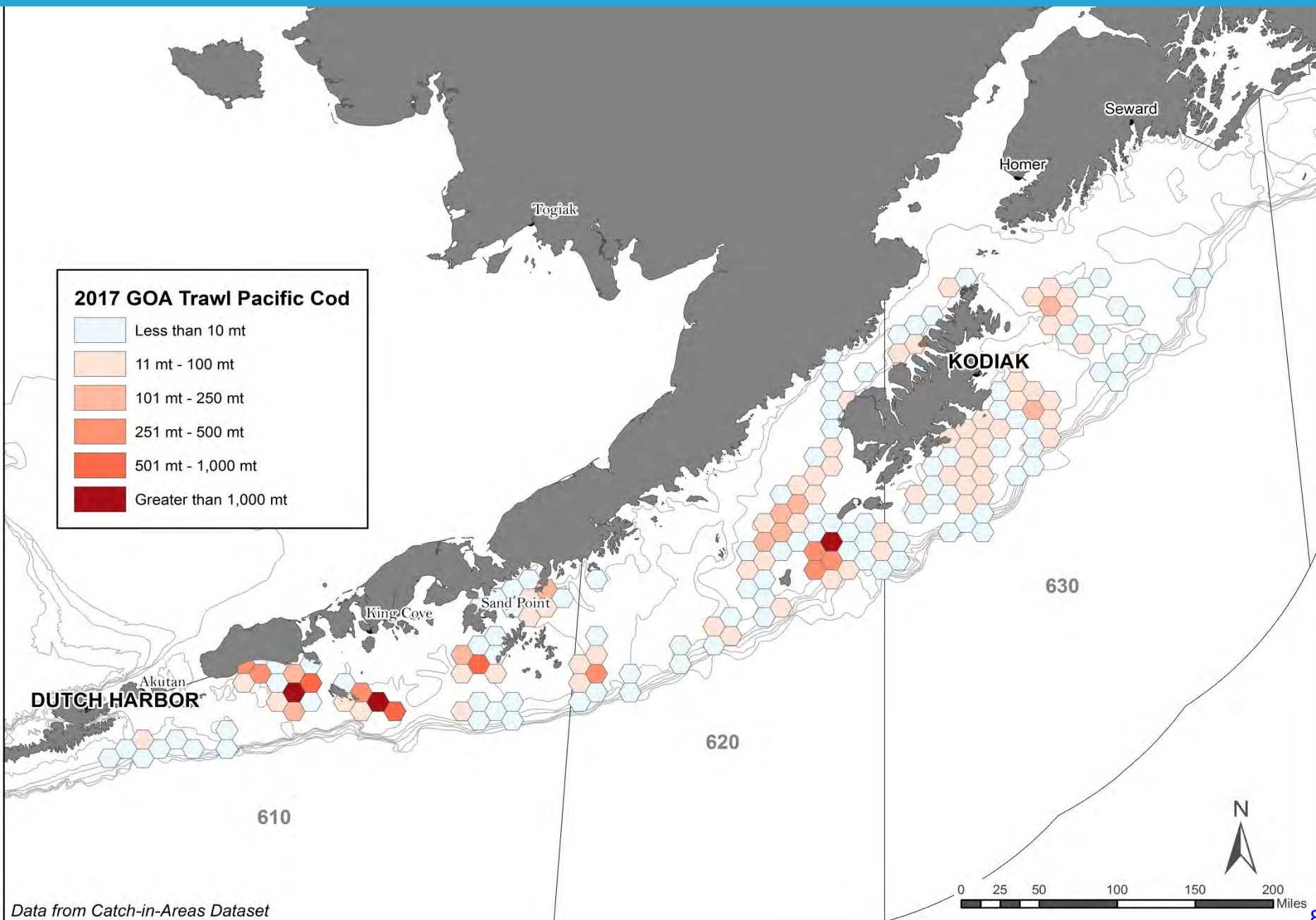
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	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017
610	22	21	20	22	22	26	21	15	17	22	12	19	20	27	12	29
620	36	33	40	37	39	53	40	42	43	43	49	36	39	34	42	35
630	36	33	31	36	33	42	37	41	43	45	47	40	33	40	37	32
All Areas	53	55	53	57	59	61	52	57	56	62	56	57	55	62	51	61

# 2017 Gulf of Alaska Pacific Cod Catch by Trawl Gear

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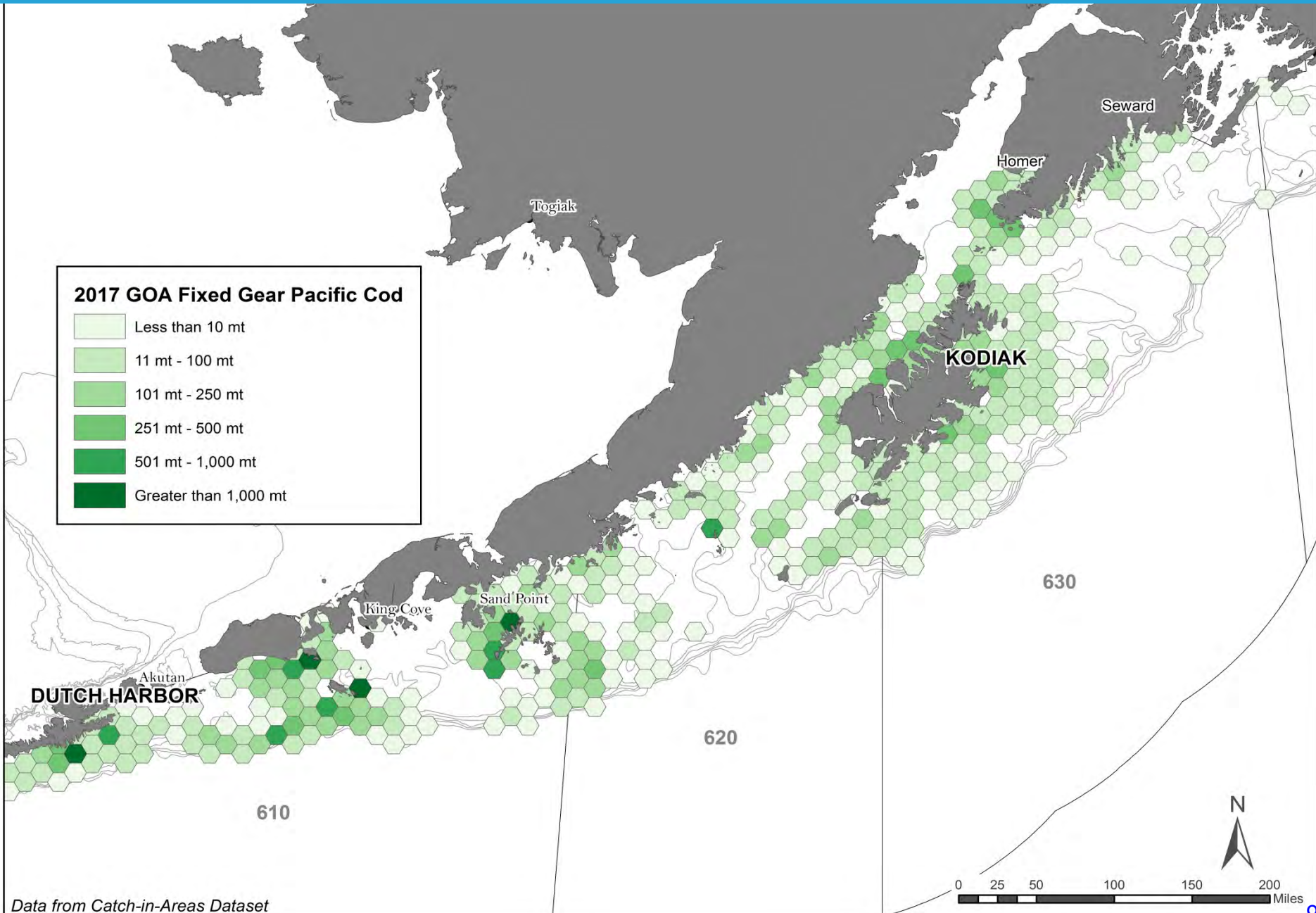


Data from Catch-in-Areas Dataset



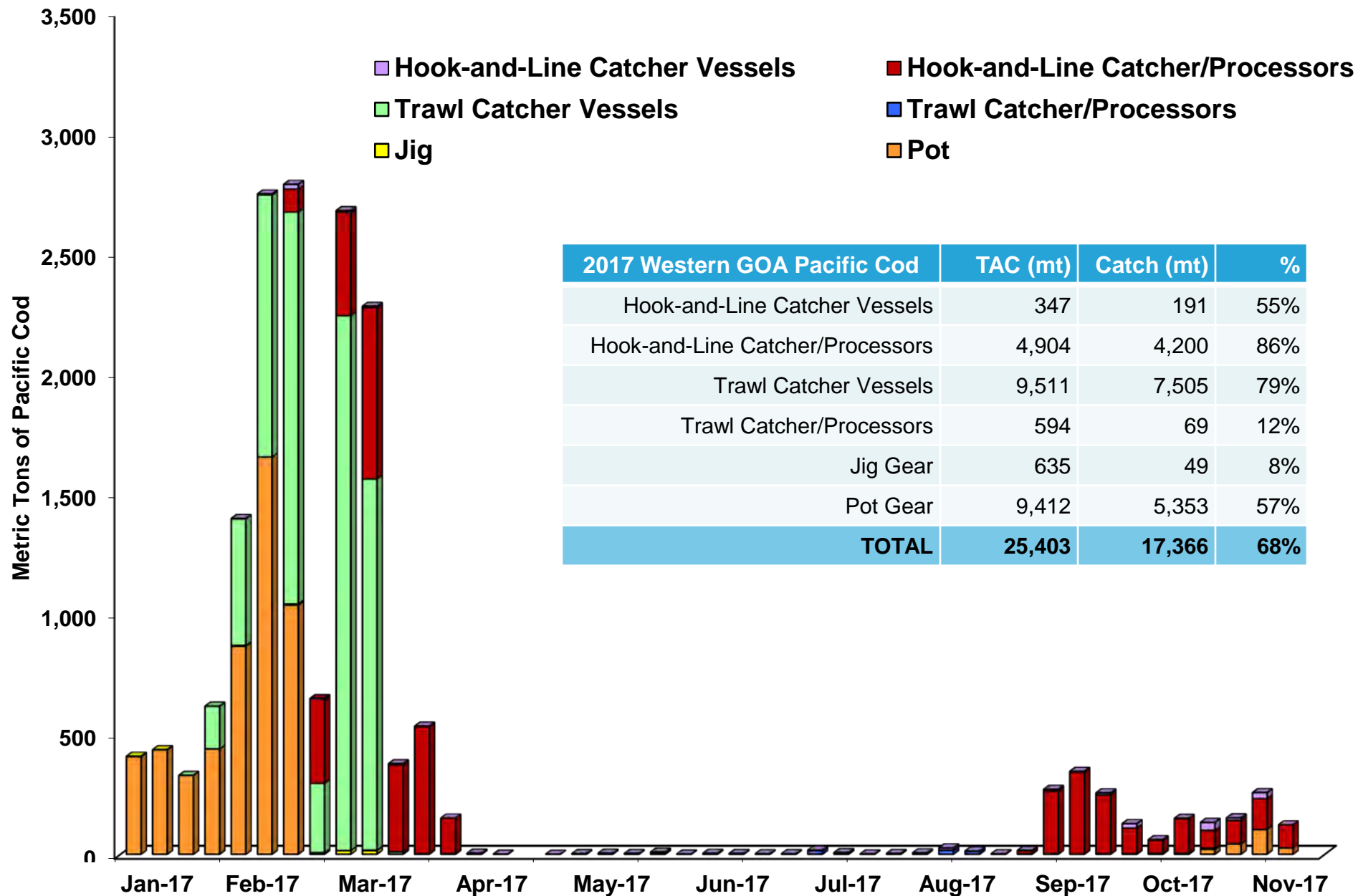
# 2017 Gulf of Alaska Pacific Cod Catch by Non-Trawl Gear

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# 2017 Western GOA Pacific Cod Catch by Week and Gear

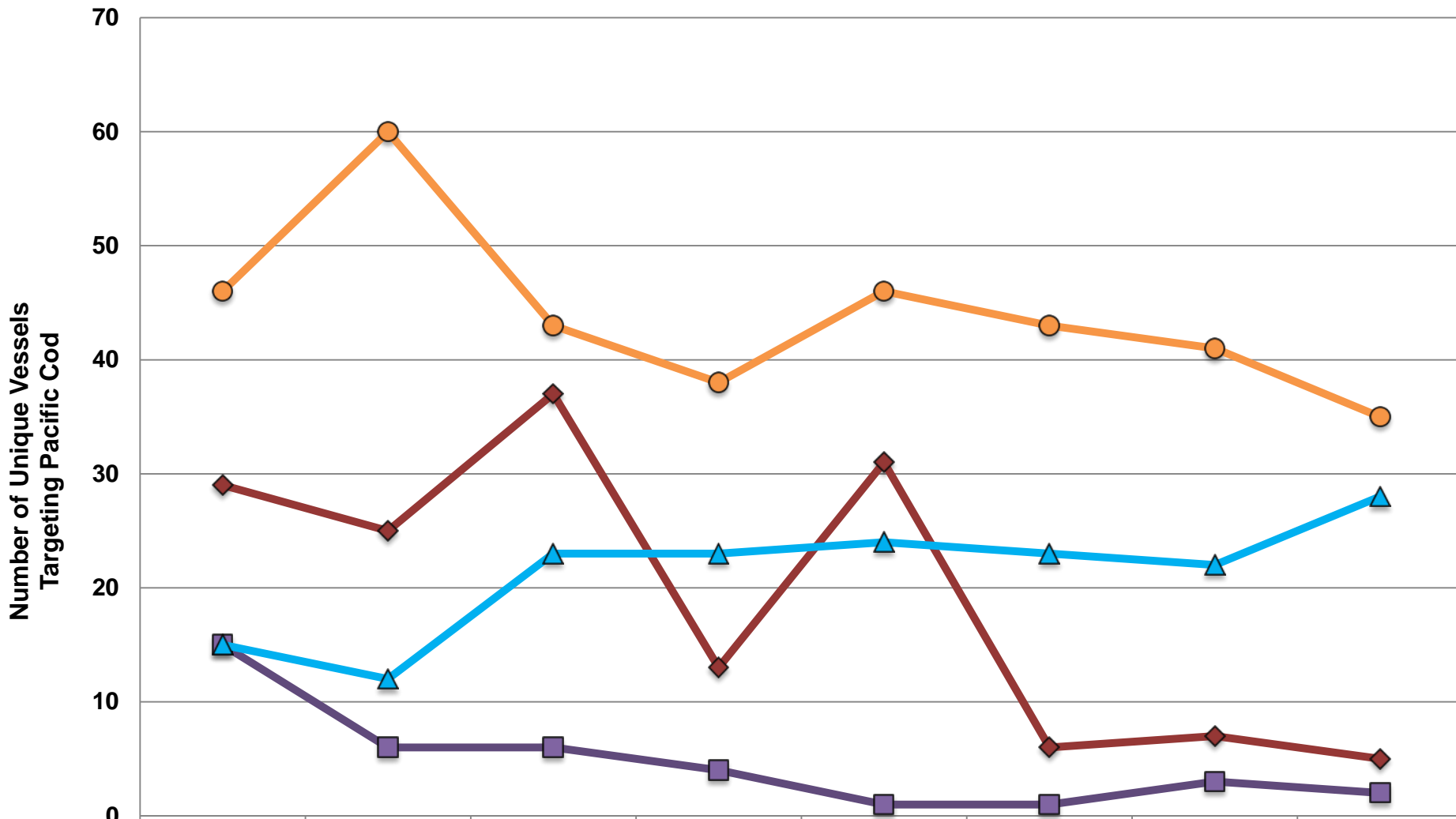
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2017 Western GOA Pacific Cod	TAC (mt)	Catch (mt)	%
Hook-and-Line Catcher Vessels	347	191	55%
Hook-and-Line Catcher/Processors	4,904	4,200	86%
Trawl Catcher Vessels	9,511	7,505	79%
Trawl Catcher/Processors	594	69	12%
Jig Gear	635	49	8%
Pot Gear	9,412	5,353	57%
<b>TOTAL</b>	<b>25,403</b>	<b>17,366</b>	<b>68%</b>

# 2010 – 2017 Counts of Vessels Targeting Western GOA Pacific Cod

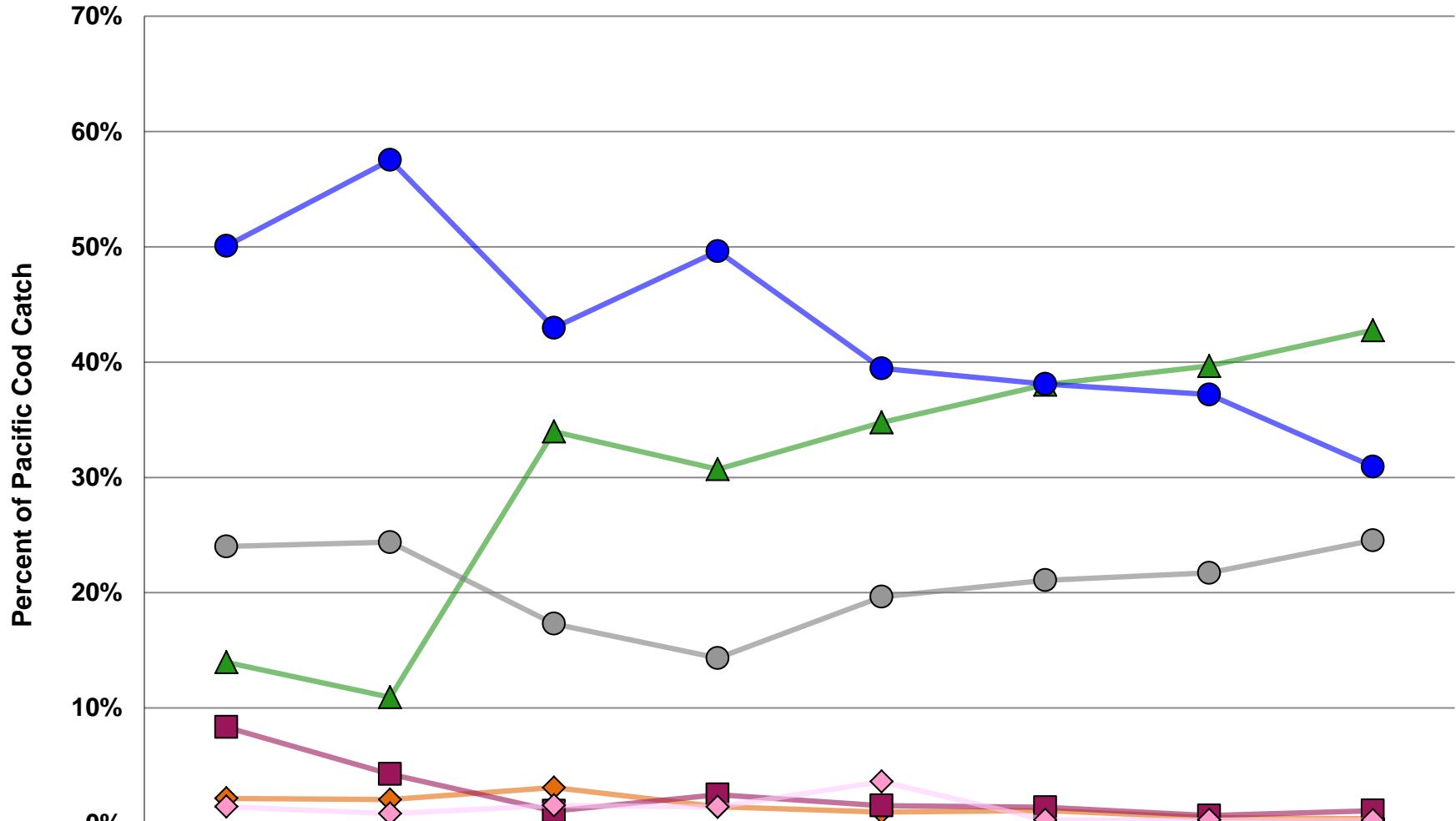
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	2010	2011	2012	2013	2014	2015	2016	2017
■ HAL	15	6	6	4	1	1	3	2
◆ JIG	29	25	37	13	31	6	7	5
○ POT	46	60	43	38	46	43	41	35
▲ TRW	15	12	23	23	24	23	22	28
TOTAL	114	123	119	80	98	80	82	80

# 2010 – 2017 Western GOA Pacific Cod Catch by Sector

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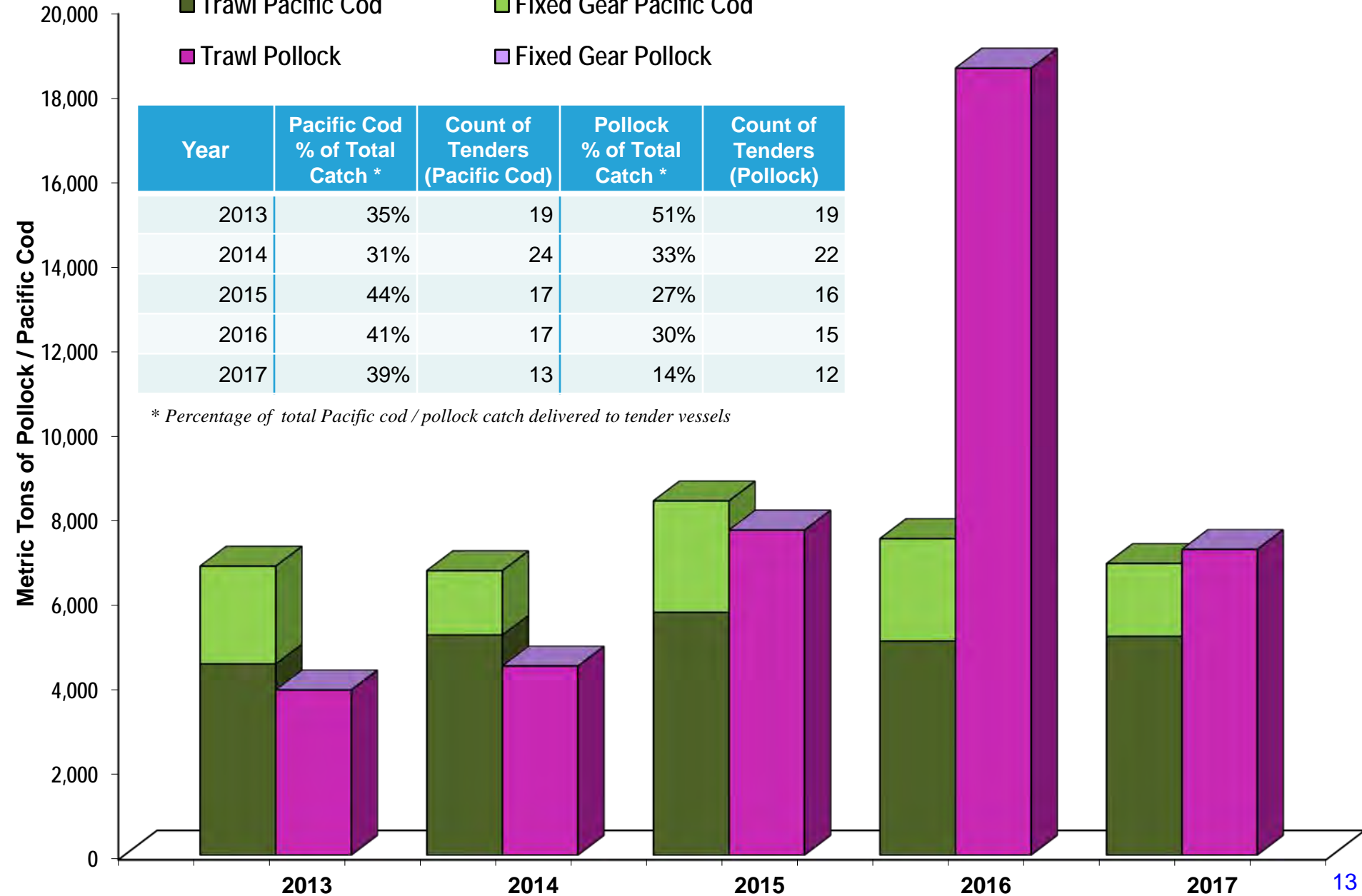
	2010	2011	2012	2013	2014	2015	2016	2017
▲ Trawl (CV)	14%	11%	34%	31%	35%	38%	40%	43%
◆ Trawl (CP)	2%	2%	3%	1%	1%	1%	0%	0%
■ HAL (CV)	8%	4%	1%	2%	2%	1%	1%	1%
● Pot (CV)	50%	58%	43%	50%	39%	38%	37%	31%
◇ Jig (CV)	1%	1%	2%	1%	4%	0%	0%	0%
● Fixed Gear CP	24%	24%	17%	14%	20%	21%	22%	25%

# Western GOA Tender Vessels Report

- Trawl Pacific Cod
- Fixed Gear Pacific Cod
- Trawl Pollock
- Fixed Gear Pollock

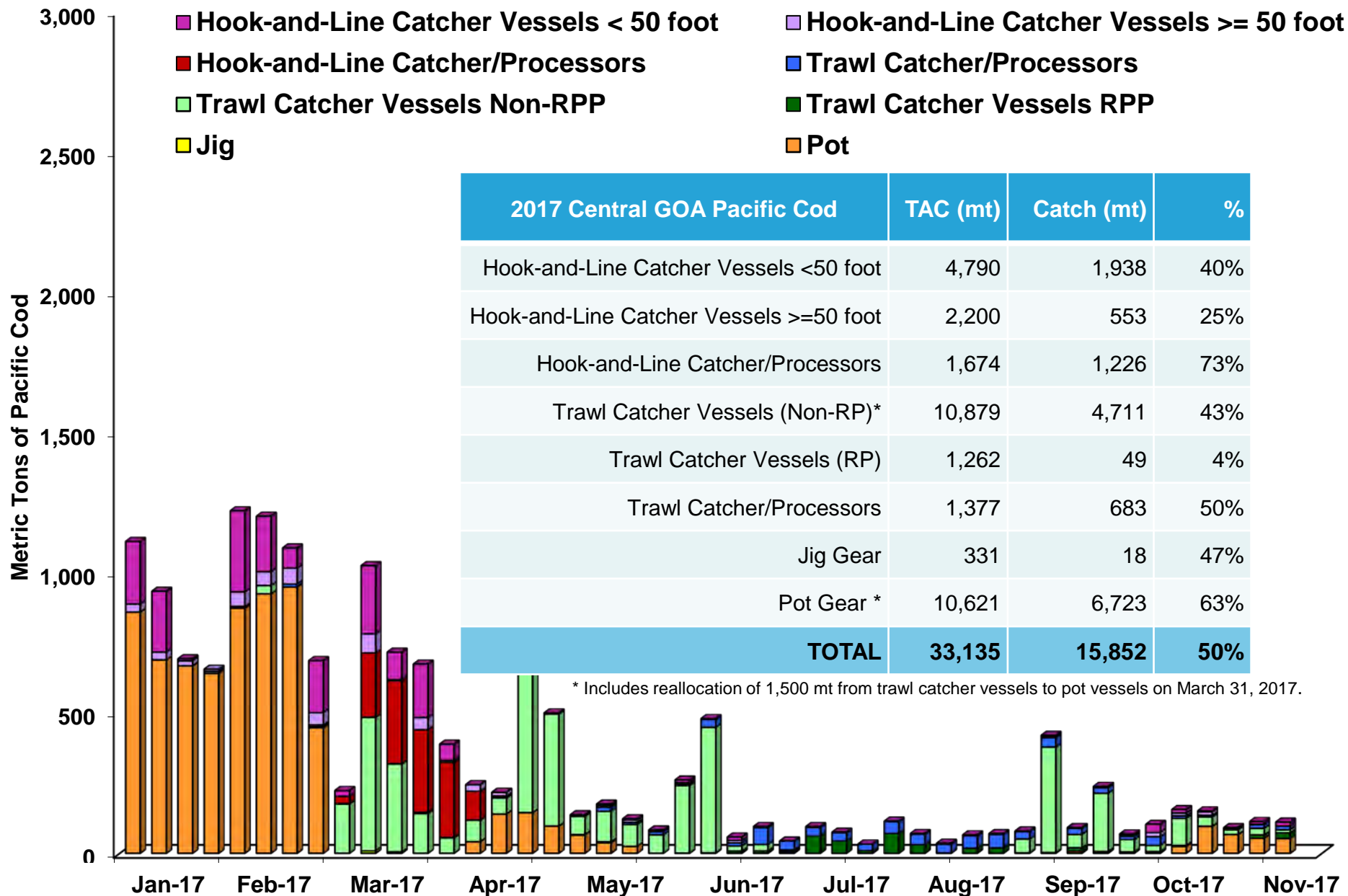
Year	Pacific Cod % of Total Catch *	Count of Tenders (Pacific Cod)	Pollock % of Total Catch *	Count of Tenders (Pollock)
2013	35%	19	51%	19
2014	31%	24	33%	22
2015	44%	17	27%	16
2016	41%	17	30%	15
2017	39%	13	14%	12

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

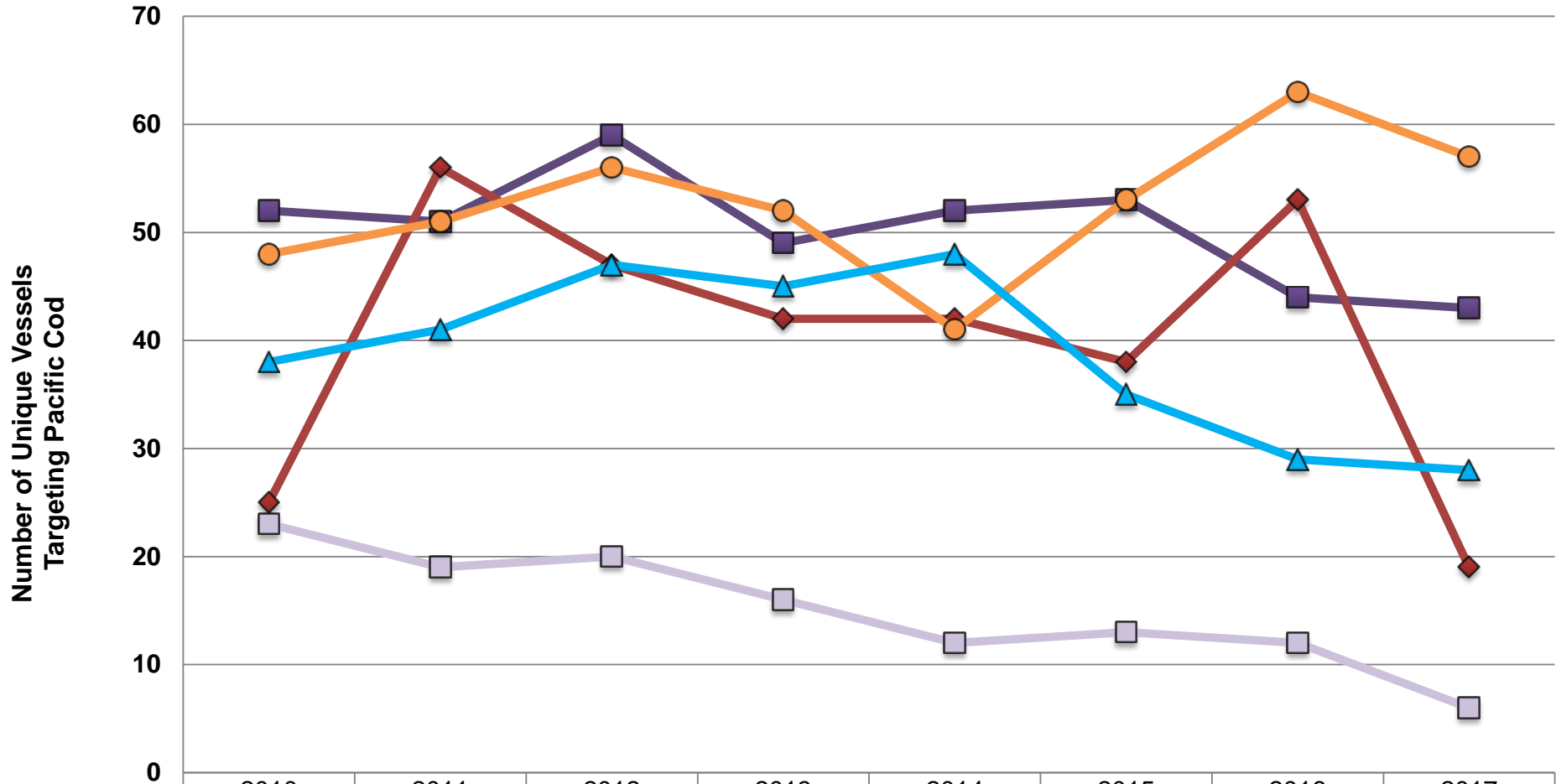


# 2017 Central GOA Pacific Cod Catch by Week and Sector

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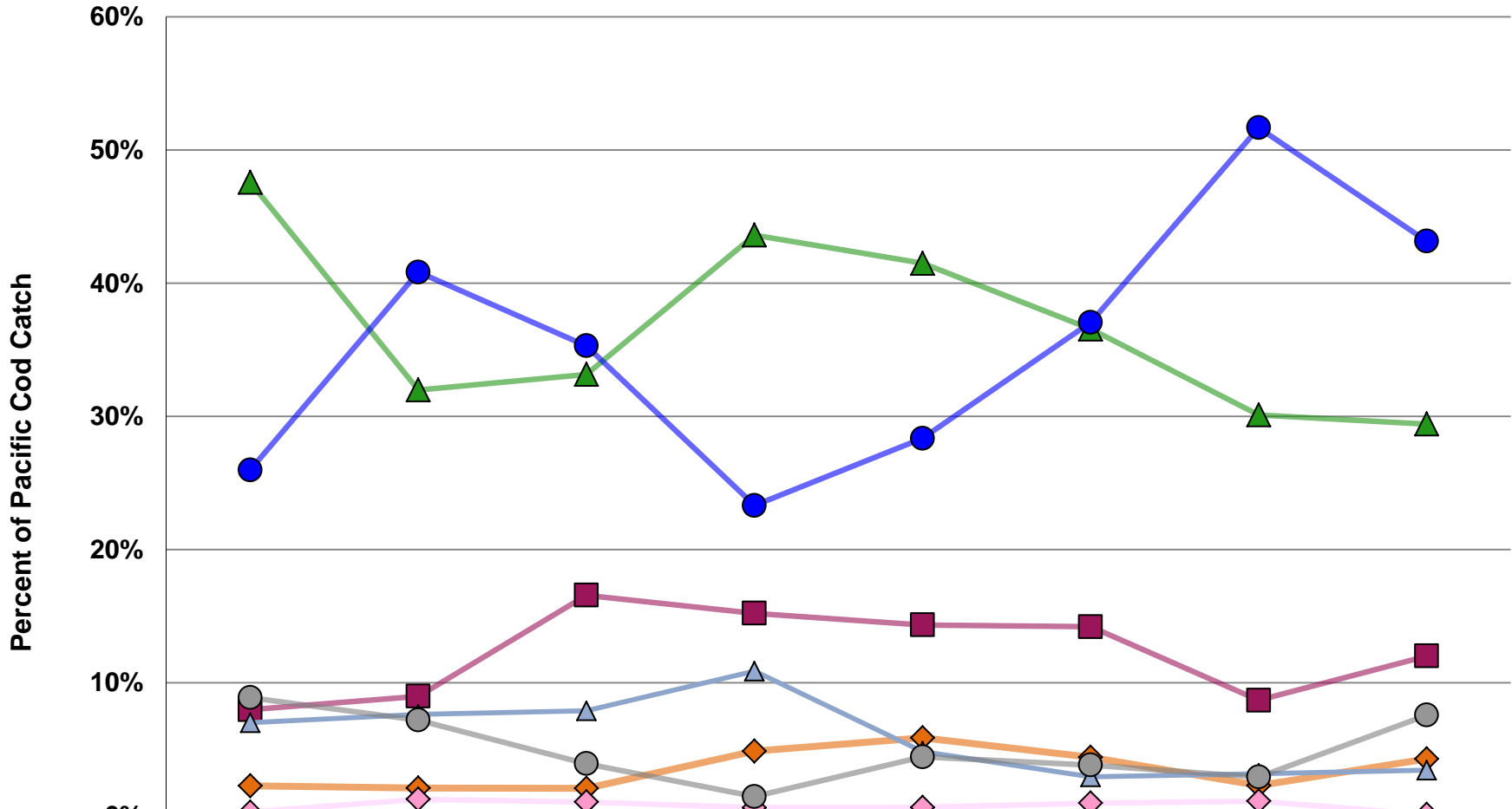


# 2010 – 2017 Counts of Vessels Targeting Central GOA Pacific Cod



	2010	2011	2012	2013	2014	2015	2016	2017
■ HAL <50	52	51	59	49	52	53	44	43
□ HAL >=50	23	19	20	16	12	13	12	6
◆ JIG	25	56	47	42	42	38	53	19
○ POT	48	51	56	52	41	53	63	57
▲ TRW	38	41	47	45	48	35	29	28
TOTAL	213	275	269	217	222	237	255	170

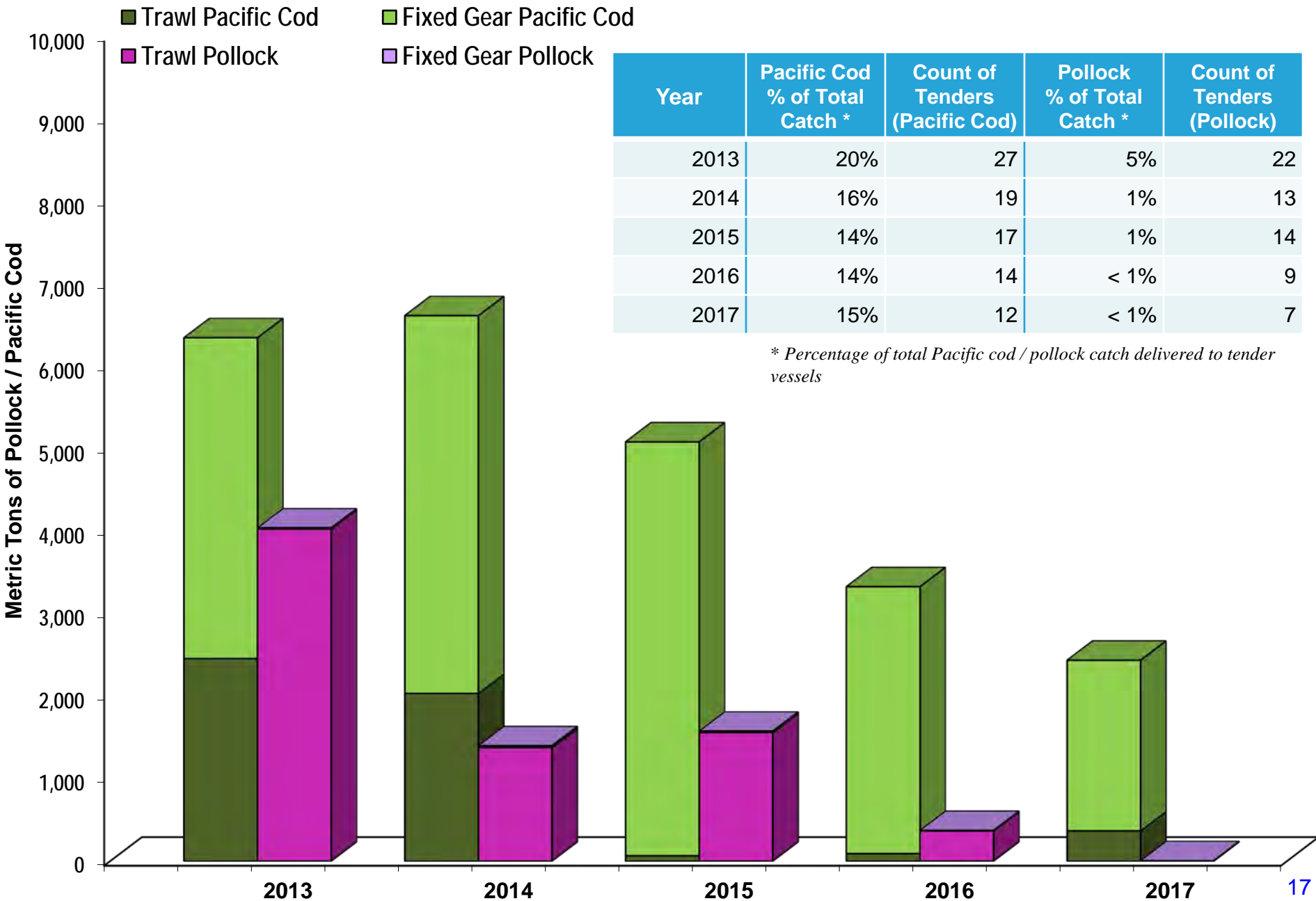
# 2010 – 2017 Central GOA Pacific Cod Catch by Sector



	2010	2011	2012	2013	2014	2015	2016	2017
▲ Trawl (CV)	48%	32%	33%	44%	42%	37%	30%	29%
◆ Trawl (CP)	2%	2%	2%	5%	6%	4%	2%	4%
● Pot (CV)	26%	41%	35%	23%	28%	37%	52%	43%
◇ Jig (CV)	0%	1%	1%	1%	1%	1%	1%	0%
■ HAL <50 CV	8%	9%	17%	15%	14%	14%	9%	12%
▲ HAL >= 50 CV	7%	8%	8%	11%	5%	3%	3%	3%
● Fixed Gear (CP)	9%	7%	4%	1%	4%	4%	3%	8%



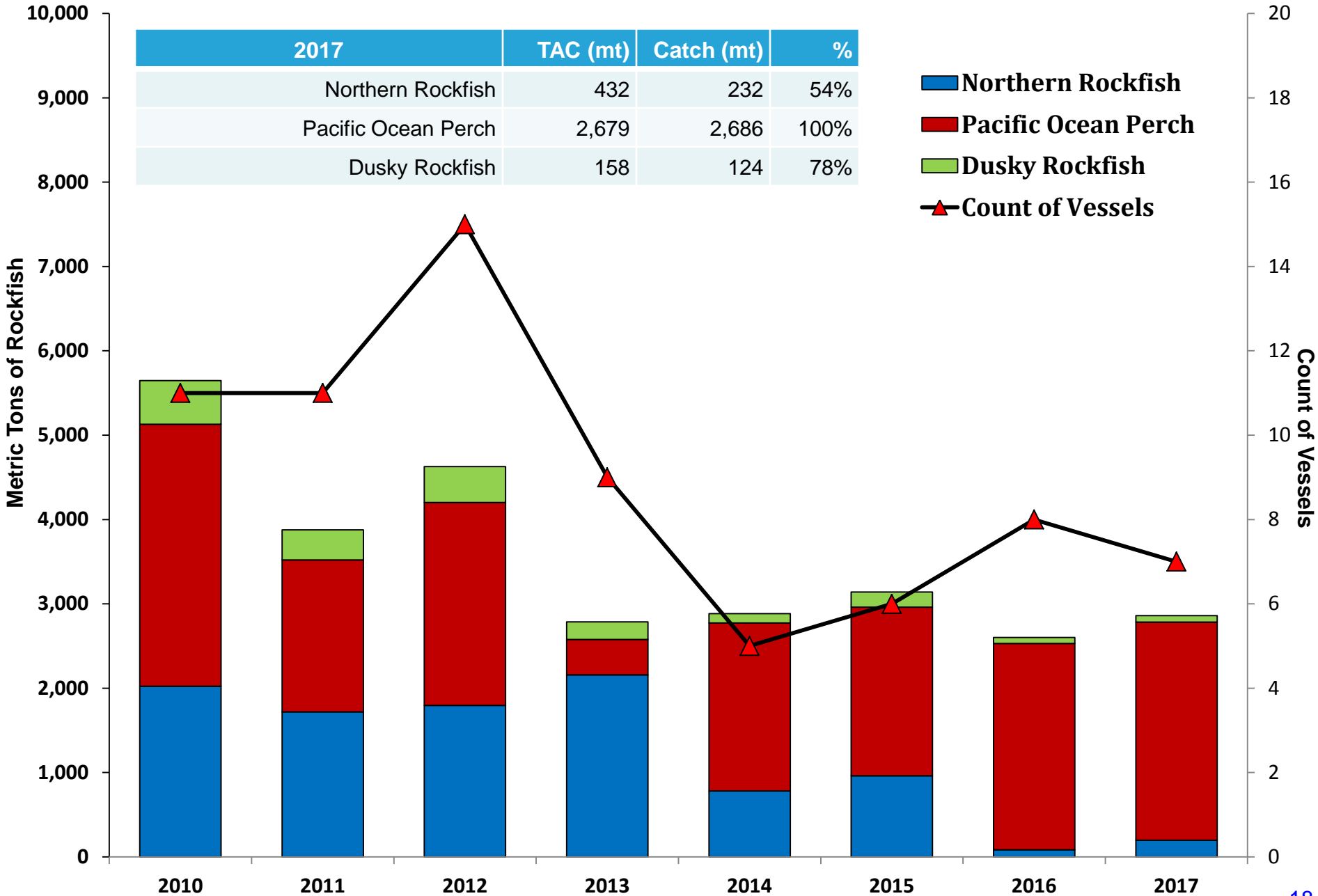
# Central GOA Tender Vessels Report



# Western GOA Trawl Rockfish Fishery

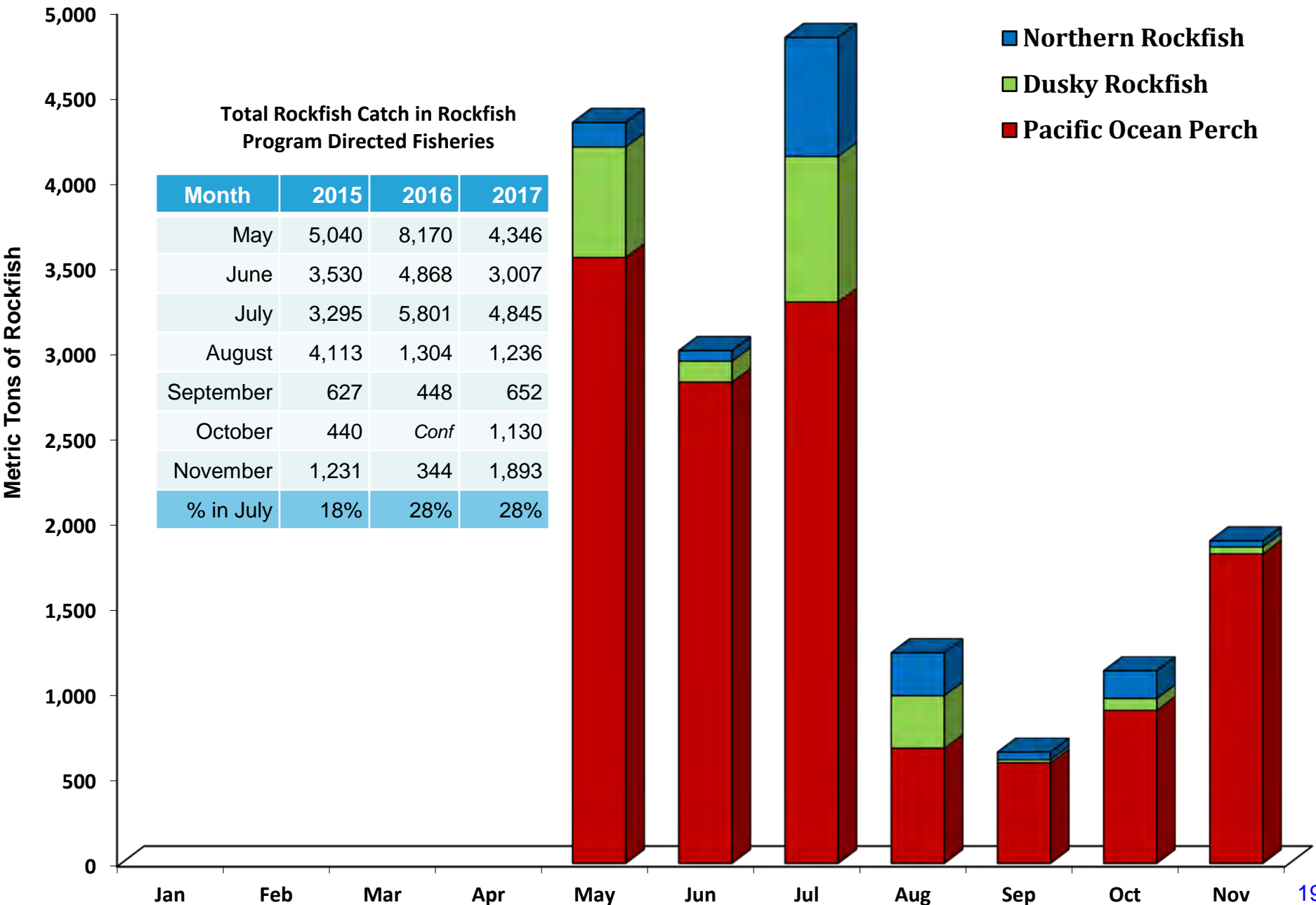
2017	TAC (mt)	Catch (mt)	%
Northern Rockfish	432	232	54%
Pacific Ocean Perch	2,679	2,686	100%
Dusky Rockfish	158	124	78%

- Northern Rockfish
- Pacific Ocean Perch
- Dusky Rockfish
- ▲ Count of Vessels



# 2017 Central GOA Trawl Rockfish Program Fishery by Month

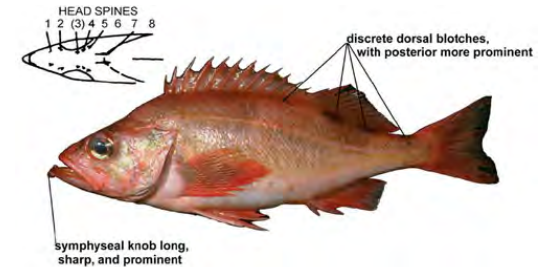
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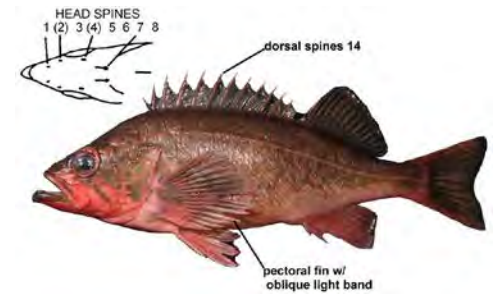
# 2017 Rockfish Program Allocations and Catch

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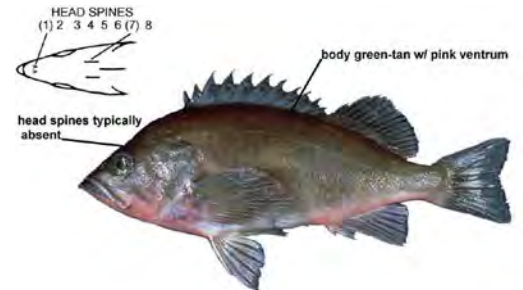
Species	Limit (mt)	Catch (mt)	%
<b>Entry level Fixed Gear</b>			
Pacific Ocean Perch	5	0	0%
Northern Rockfish	5	0	0%
Dusky Rockfish	50	16	31%
<b>Cooperatives</b>			
Pacific Ocean Perch	14,666	13,972	95%
Northern Rockfish	3,049	1,432	47%
Dusky Rockfish	3,486	2,174	62%
Pacific Cod	1,262	52	4%
Sablefish	464	426	92%
Thornyhead Rockfish	339	276	81%
Shortraker Rockfish	120	confidential	confidential
Rougheye Rockfish	416	confidential	confidential
Pacific Halibut PSC	191	82	43%
<b>Primary Species Central GOA Incidental Catch</b>			
Pacific Ocean Perch	2,000	4,558	228%
Northern Rockfish	300	236	56%
Dusky Rockfish	250	278	111%



**Pacific Ocean Perch**

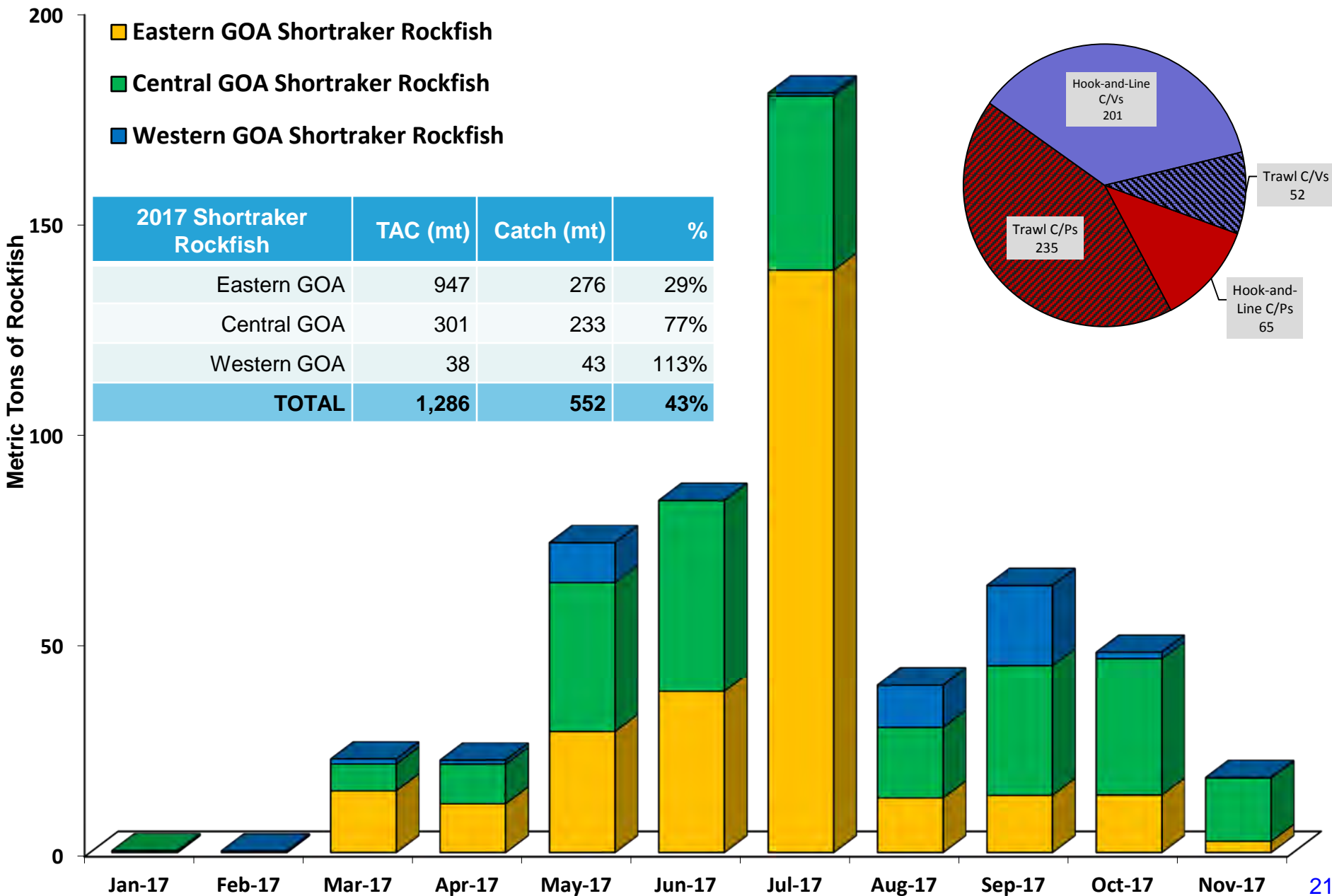


**Northern Rockfish**



**Dusky Rockfish**

# 2017 GOA Shortraker Rockfish Catch

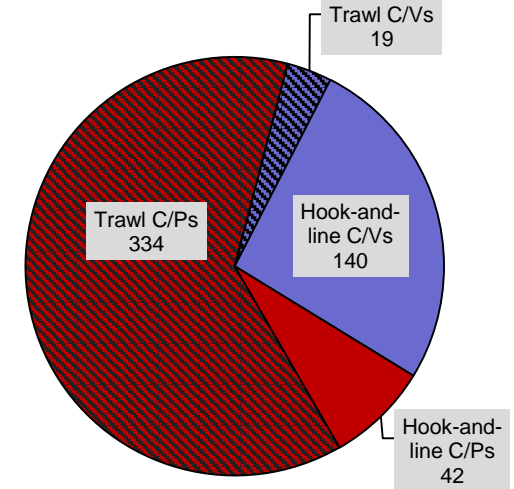


# 2017 GOA Rougheye/Blackspotted Rockfish Catch

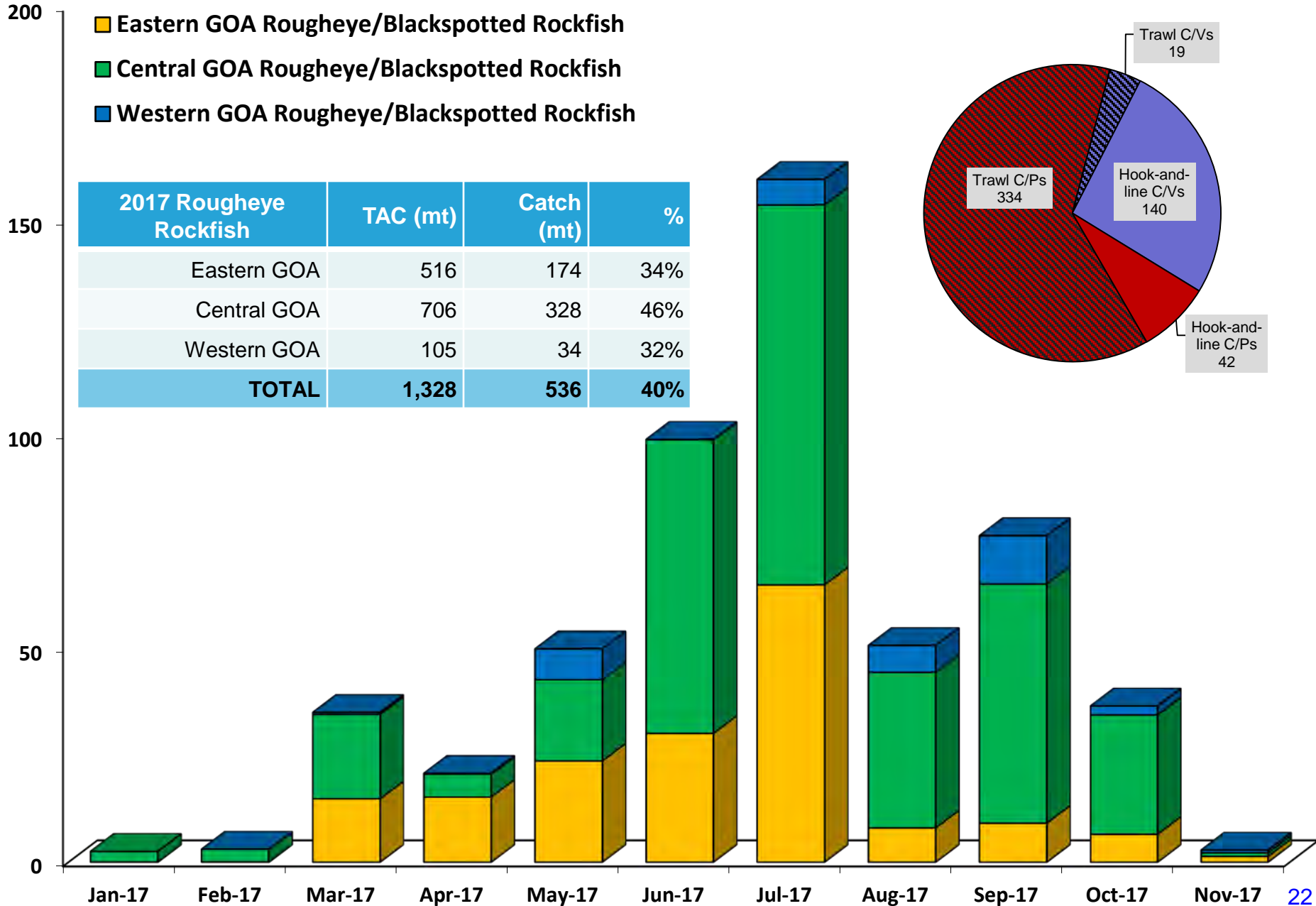
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- Eastern GOA Rougheye/Blackspotted Rockfish
- Central GOA Rougheye/Blackspotted Rockfish
- Western GOA Rougheye/Blackspotted Rockfish

2017 Rougheye Rockfish	TAC (mt)	Catch (mt)	%
Eastern GOA	516	174	34%
Central GOA	706	328	46%
Western GOA	105	34	32%
<b>TOTAL</b>	<b>1,328</b>	<b>536</b>	<b>40%</b>



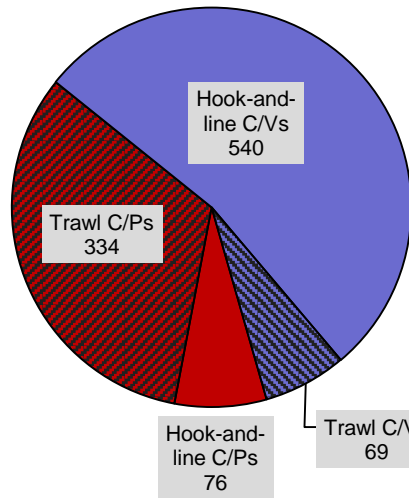
Metric Tons of Rockfish



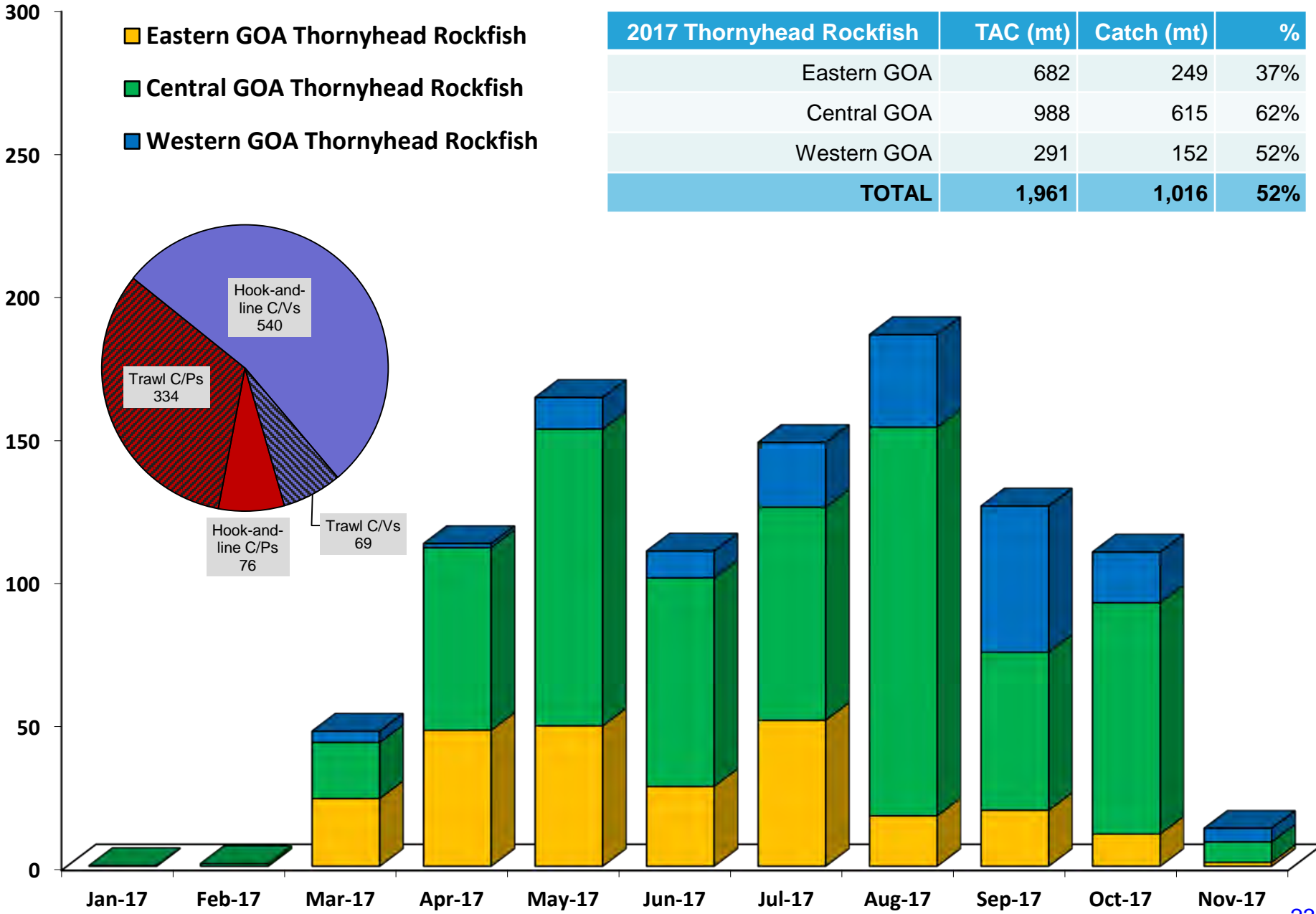
# 2017 GOA Thornyhead Rockfish Catch

- Eastern GOA Thornyhead Rockfish
- Central GOA Thornyhead Rockfish
- Western GOA Thornyhead Rockfish

2017 Thornyhead Rockfish	TAC (mt)	Catch (mt)	%
Eastern GOA	682	249	37%
Central GOA	988	615	62%
Western GOA	291	152	52%
<b>TOTAL</b>	<b>1,961</b>	<b>1,016</b>	<b>52%</b>



Metric Tons of Rockfish



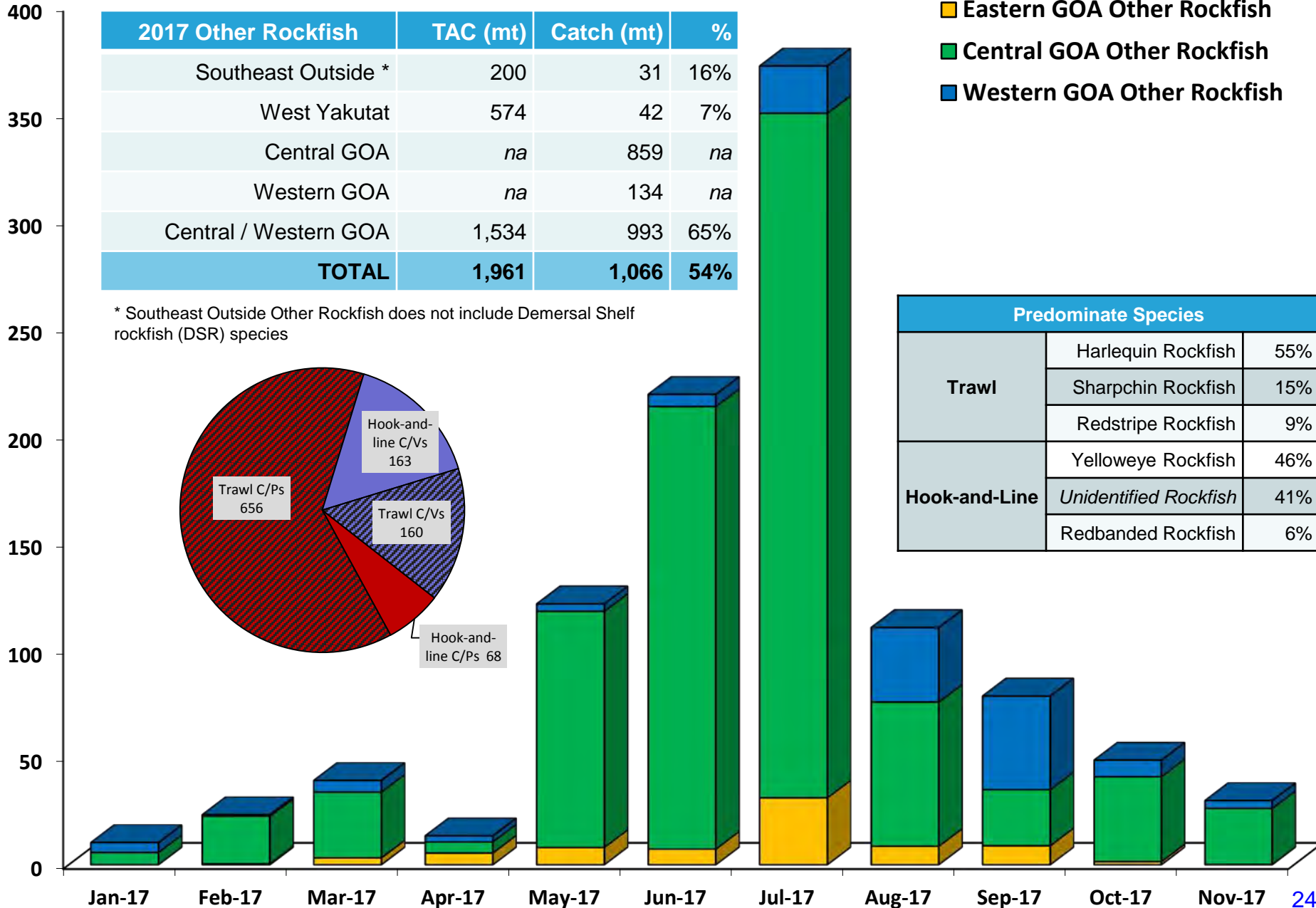
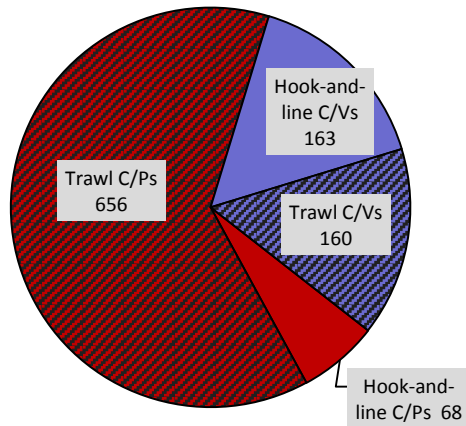
# 2017 GOA Other Rockfish Catch

2017 Other Rockfish	TAC (mt)	Catch (mt)	%
Southeast Outside *	200	31	16%
West Yakutat	574	42	7%
Central GOA	na	859	na
Western GOA	na	134	na
Central / Western GOA	1,534	993	65%
<b>TOTAL</b>	<b>1,961</b>	<b>1,066</b>	<b>54%</b>

\* Southeast Outside Other Rockfish does not include Demersal Shelf rockfish (DSR) species

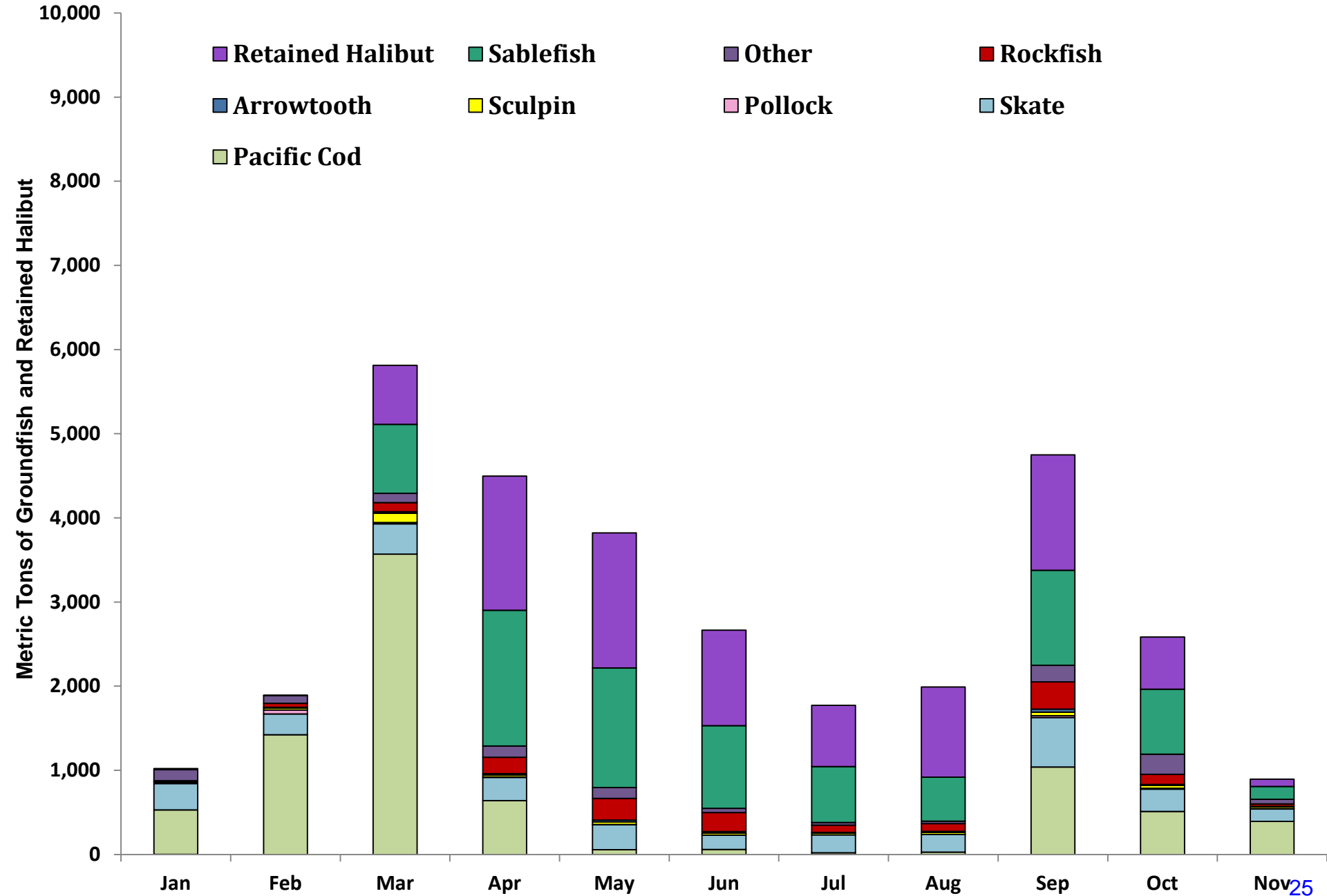
- Eastern GOA Other Rockfish
- Central GOA Other Rockfish
- Western GOA Other Rockfish

Predominate Species		
<b>Trawl</b>	Harlequin Rockfish	55%
	Sharpchin Rockfish	15%
	Redstripe Rockfish	9%
<b>Hook-and-Line</b>	Yelloweye Rockfish	46%
	<i>Unidentified Rockfish</i>	41%
	Redbanded Rockfish	6%



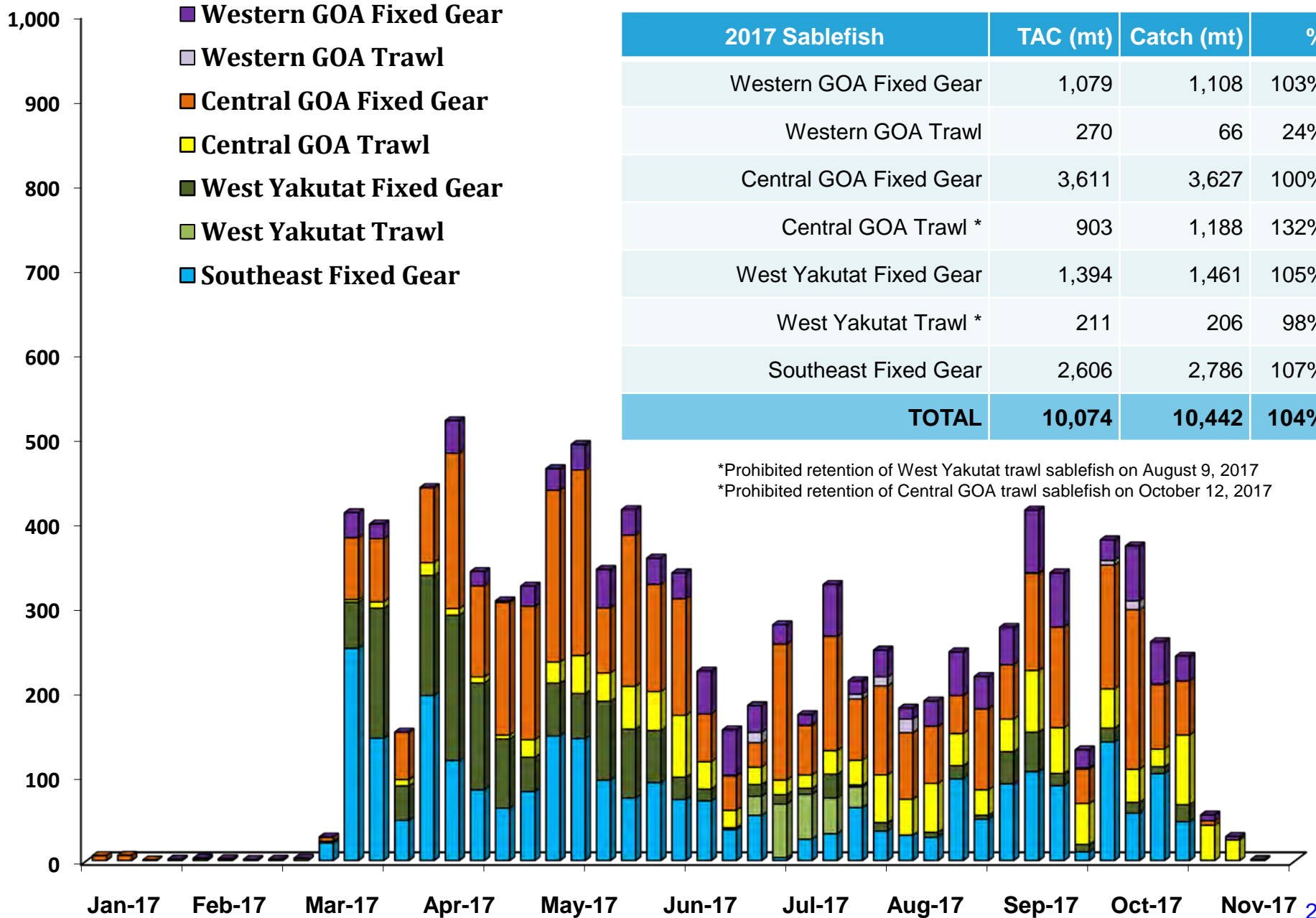


# 2017 GOA Hook-and-Line Catch

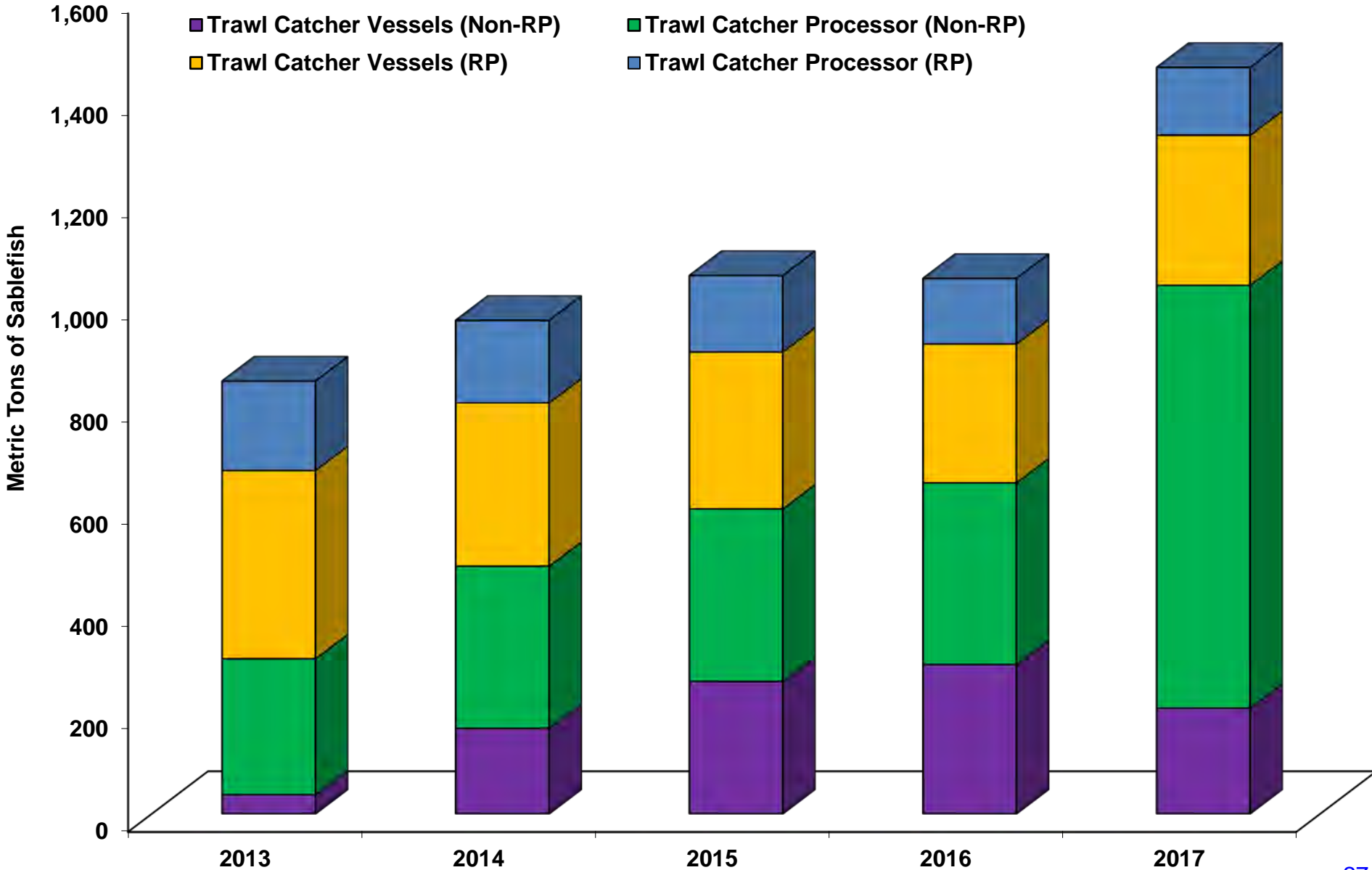


# 2017 GOA Sablefish Catch

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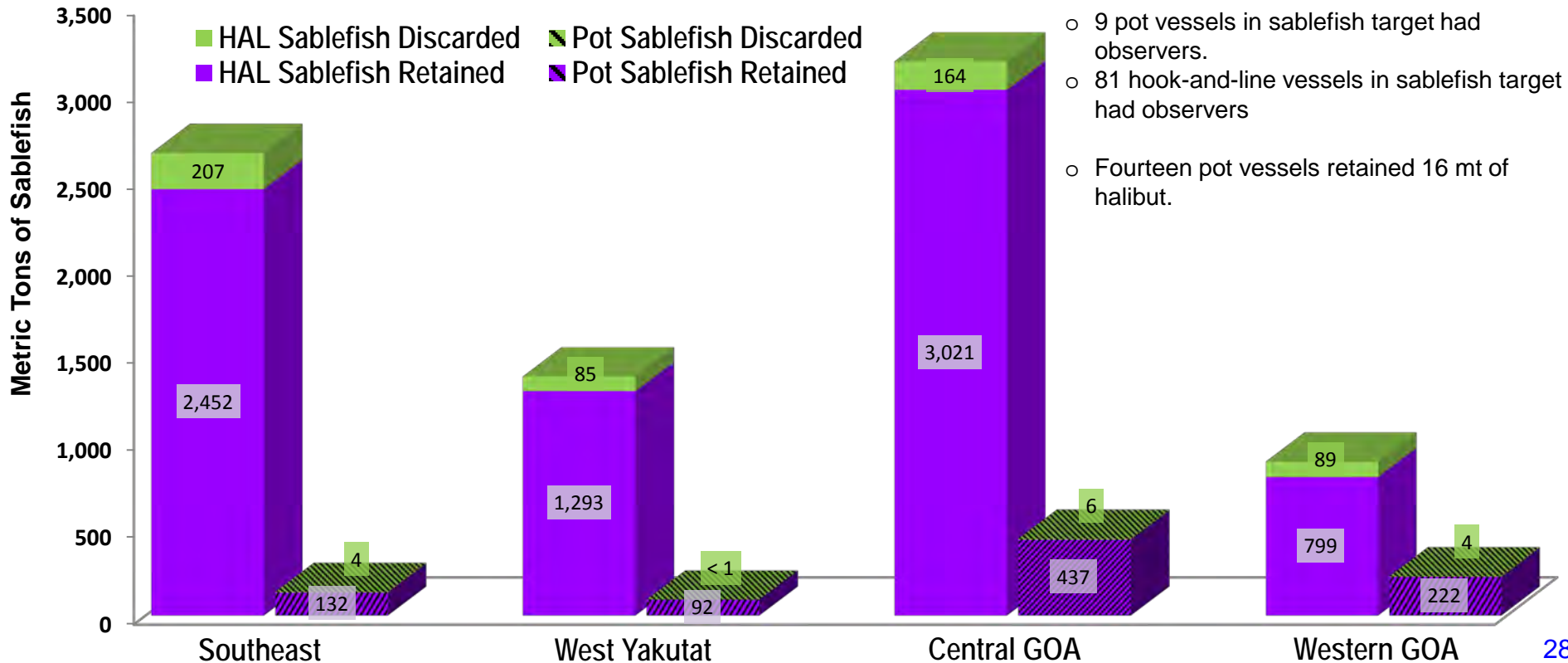


# 2013 – 2017 Sablefish catch by trawl vessels



# Sablefish by Fixed Gear

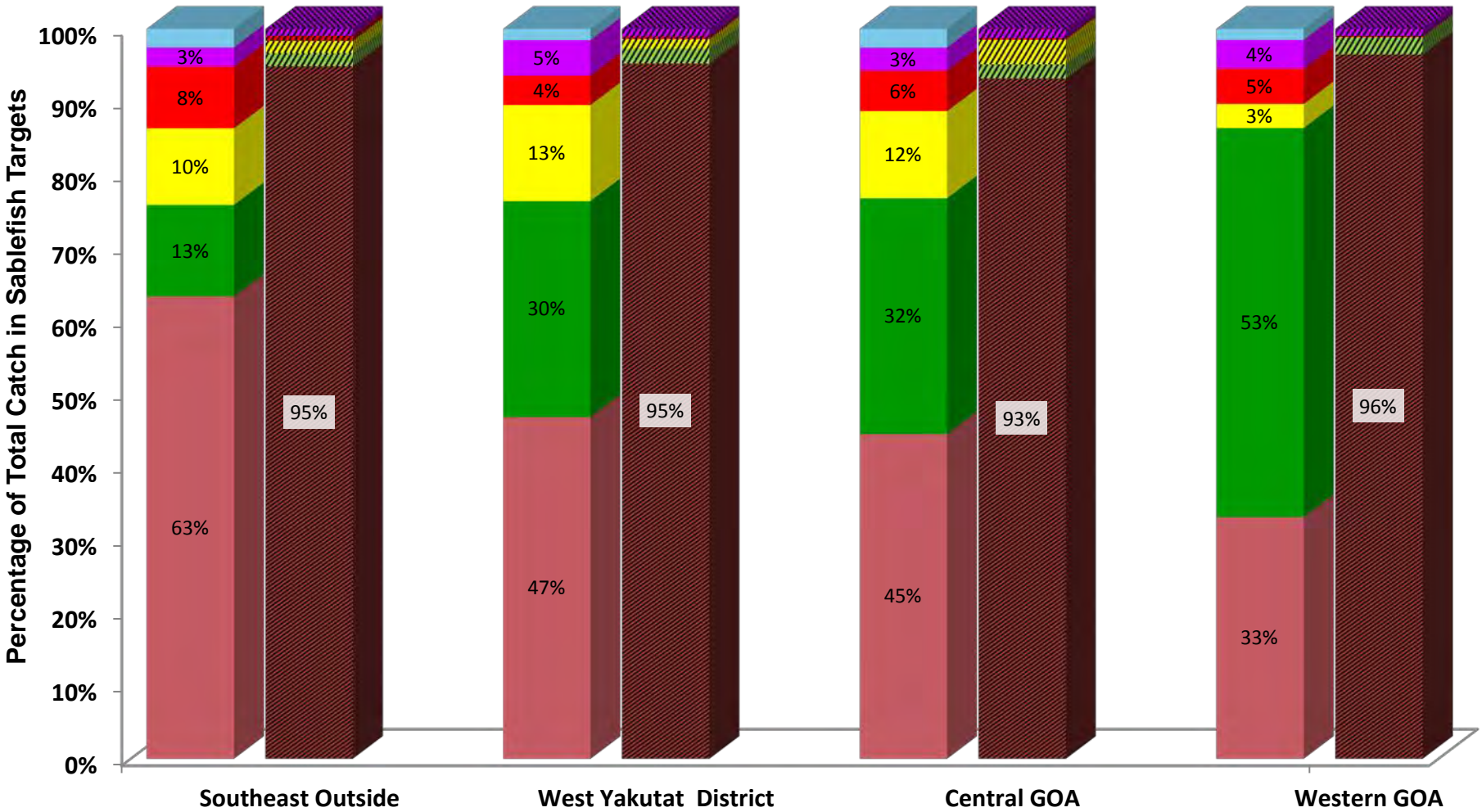
2017 Sablefish	Hook-and-Line			Pot				
	Unique Vessels	Sablefish (mt)	% of IFQ Sablefish	Unique Vessels	Sablefish (mt)	% of IFQ Sablefish	Pots Registered	Pots Lost
Southeast	165	2,659	95%	10	138	5%	1,900	29
West Yakutat	95	1,378	94%	10	92	6%	1,950	7
Central GOA	143	3,186	88%	19	443	12%	4,552	76
Western GOA	55	887	78%	6	226	22%	3,155	56
<b>GOA Wide</b>	<b>275</b>	<b>8,111</b>	<b>90%</b>	<b>22</b>	<b>891</b>	<b>10%</b>	<b>11,557</b>	<b>168</b>



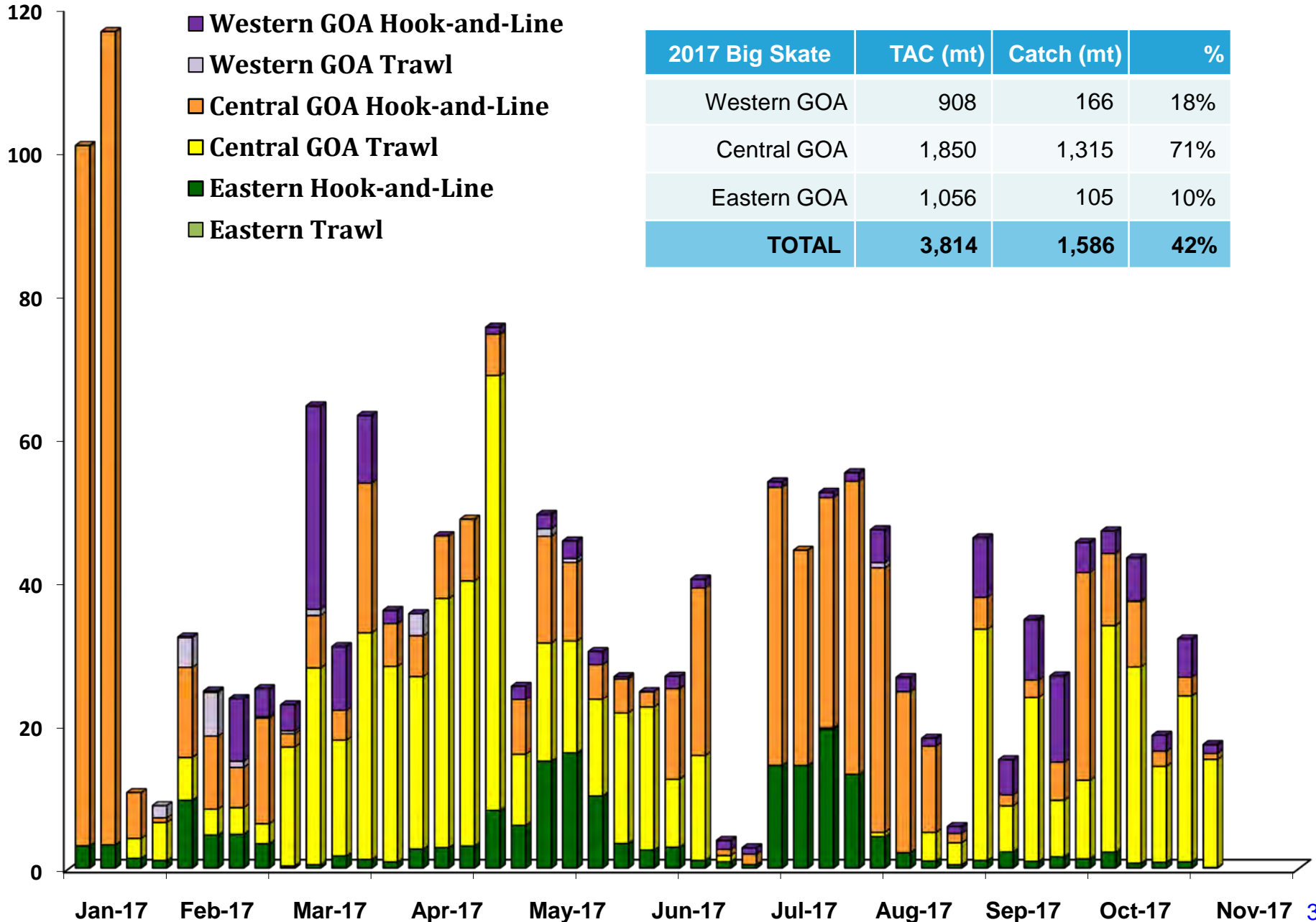
# Sablefish and Incidental Catch in Fixed Gear Sablefish Targets

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- HAL Skates
- Pot Skates
- HAL Other Groundfish Species
- Pot Other Groundfish Species
- HAL Rockfish
- Pot Rockfish
- HAL Halibut
- Pot Halibut
- HAL Grenadiers/Other
- Pot Grenadiers/Other
- HAL Sablefish
- Pot Sablefish



# 2017 GOA Big Skate



# 2017 GOA Longnose Skate and Other Skates

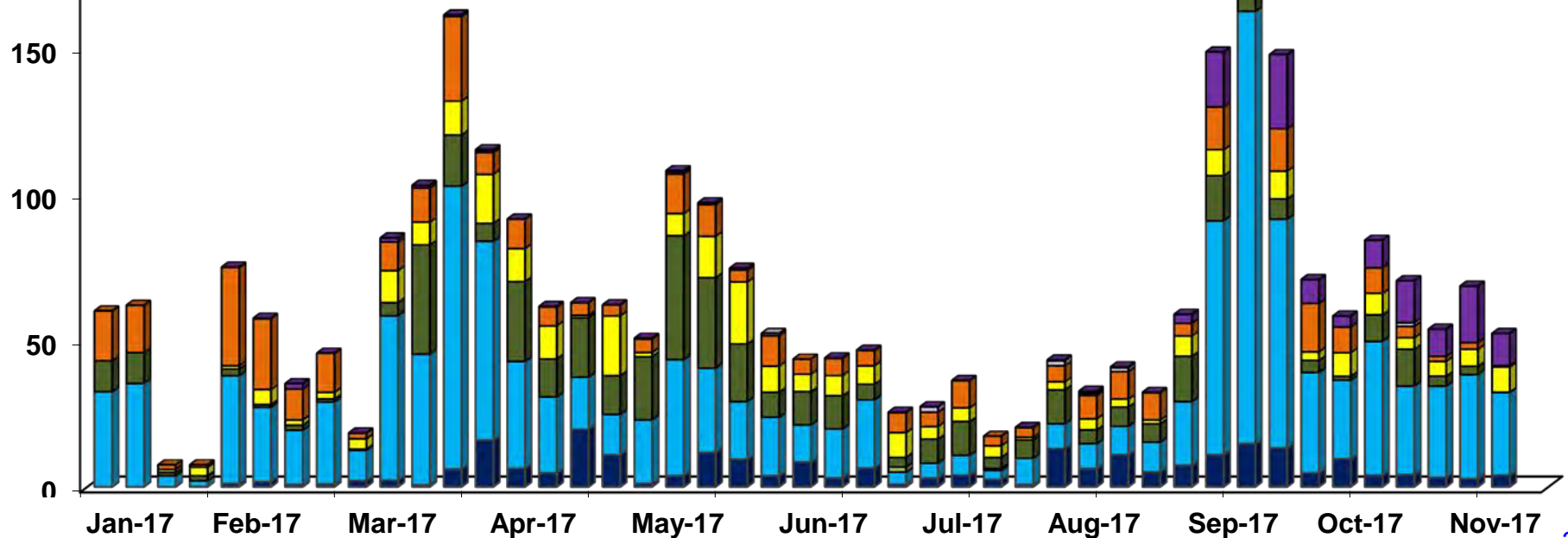
- Longnose Western GOA Hook-and-Line
- Longnose Western GOA Trawl
- Longnose Central GOA Hook-and-Line
- Longnose Central GOA Trawl
- Longnose Eastern Hook-and-Line
- Longnose Eastern Trawl
- Other Skates Hook-and-Line
- Other Skates Trawl

2017 Longnose Skate	TAC (mt)	Catch (mt)	%
Western GOA *	61	180	295%
Central GOA	2,513	695	28%
Eastern GOA	632	267	42%
<b>TOTAL</b>	<b>3,206</b>	<b>1,142</b>	<b>36%</b>

- Prohibited retention of Western GOA Longnose skates on September 20, 2017

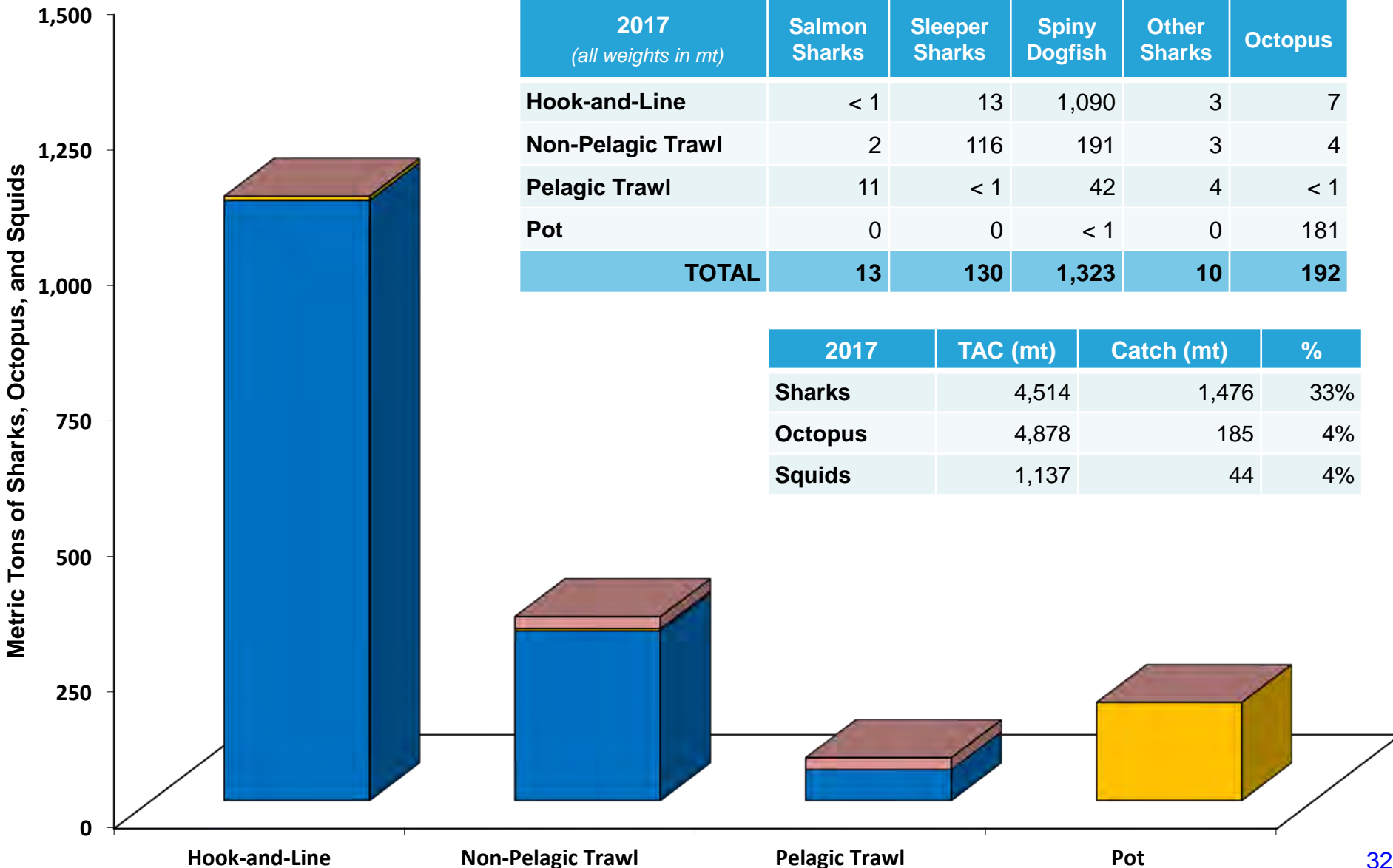
2017 Other Skates	TAC (mt)	Catch (mt)	%
Entire GOA	1,919	1,505	78%

Metric Tons of Skates



# 2017 GOA Sharks, Octopus, and Squids

■ Sharks    ■ Octopus    ■ Squids



2017 <i>(all weights in mt)</i>	Salmon Sharks	Sleeper Sharks	Spiny Dogfish	Other Sharks	Octopus
Hook-and-Line	< 1	13	1,090	3	7
Non-Pelagic Trawl	2	116	191	3	4
Pelagic Trawl	11	< 1	42	4	< 1
Pot	0	0	< 1	0	181
<b>TOTAL</b>	<b>13</b>	<b>130</b>	<b>1,323</b>	<b>10</b>	<b>192</b>

2017	TAC (mt)	Catch (mt)	%
<b>Sharks</b>	4,514	1,476	33%
<b>Octopus</b>	4,878	185	4%
<b>Squids</b>	1,137	44	4%

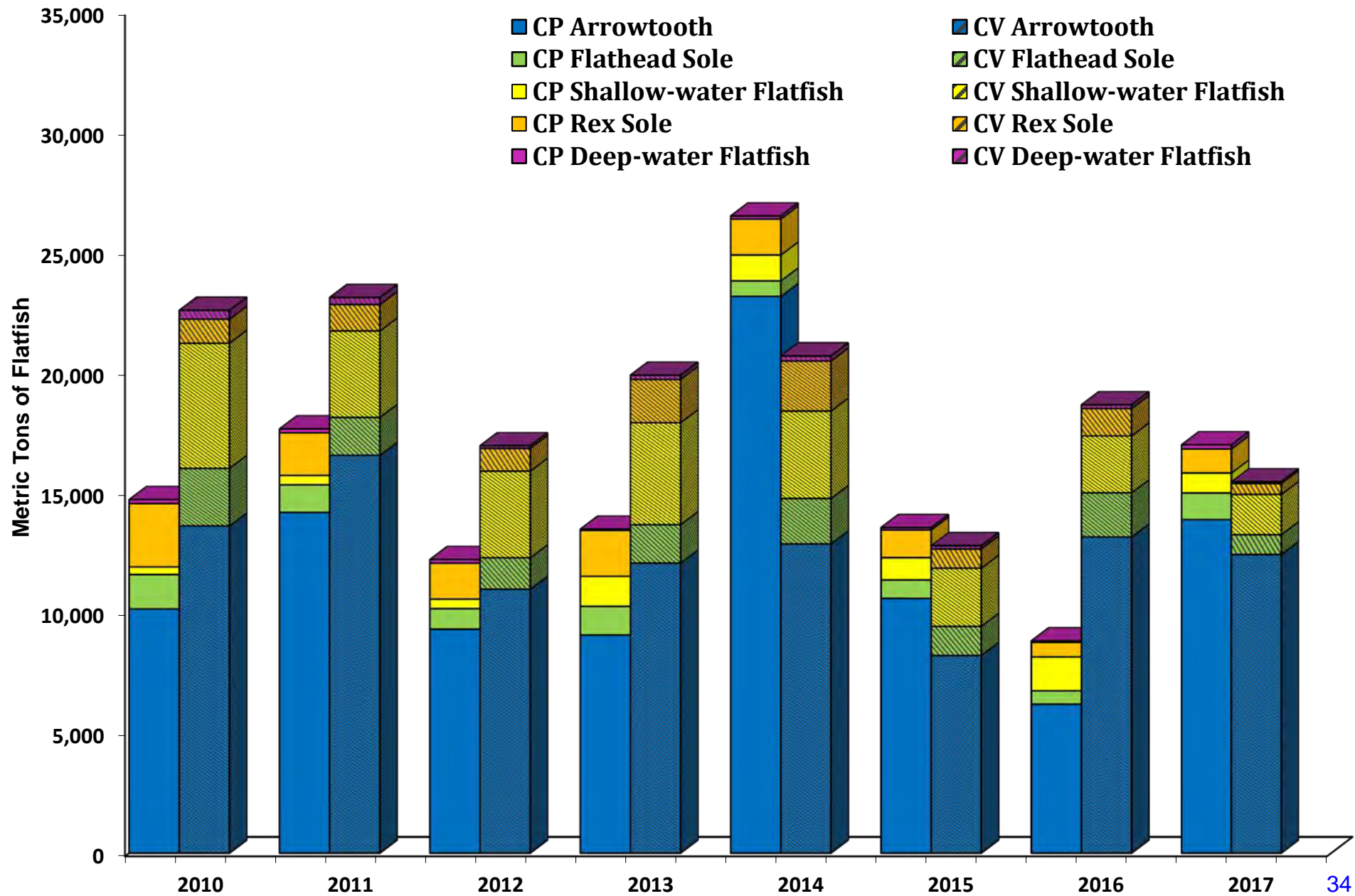


# 2017 GOA Groundfish Species Placed on Prohibited Species Status

2016	Date
Longnose Skates in Western GOA	April 26, 2016
Shortraker Rockfish in Western GOA	September 19, 2016
Shortraker Rockfish in Central GOA	September 19, 2016
Big Skate in Central GOA	September 29, 2016
Pacific Ocean Perch Incidental Catch Allowance in Central GOA	October 14, 2016
Sablefish by Trawl Gear in Central GOA (non-Rockfish Program)	October 14, 2016
2017	Date
Sablefish by Trawl Gear in West Yakutat District	August 9, 2017
Pacific Ocean Perch Incidental Catch Allowance in Central GOA	August 29, 2017
Longnose Skates in Western GOA	September 20, 2017
Sablefish by Trawl Gear in Central GOA (non-Rockfish Program)	October 12, 2017
Shortraker Rockfish in Western GOA	October 16, 2017

# 2010 – 2017 GOA Trawl Flatfish Catch by Species

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# 2017 Flatfish and Skate Catch in the GOA

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Species	Area	TAC (mt)	Total Catch (mt)	%
Arrowtooth Flounder	Central	75,000	25,982	35%
	Western	14,500	270	2%
Flathead Sole	Central	15,400	1,840	12%
	Western	8,650	73	1%
Rex Sole	Central	4,930	1,375	28%
	Western	1,459	48	3%
Shallow Water Flatfish	Central	19,306	2,251	12%
	Western	13,250	270	2%
Deep Water Flatfish	Central	3,454	220	6%
	Western	256	20	8%
Big Skate	Eastern	1,056	105	10%
	Central	1,850	1,315	71%
	Western	908	166	18%
Longnose Skate	Eastern	632	267	42%
	Central	2,513	695	28%
	Western	61	180	295%
Other Skate	GOA	1,919	1,505	78%

# GOA Trawl Groundfish Retained and Discards

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2016 Trawl	Retained	Discarded	% Retained
Pollock	172,042	951	99%
Arrowtooth Flounder	18,076	1,604	92%
Pacific Ocean Perch*	21,404	1,718	93%
Pacific Cod	15,120	90	99%
Dusky Rockfish	3,133	105	97%
Shallow-water Flatfish	3,572	206	95%
Flathead Sole	2,328	86	96%
Northern Rockfish	3,242	175	95%
Sablefish*	869	182	83%
Rex Sole	1,675	73	96%
Skates*	931	791	54%
Atka Mackerel	956	107	90%
Other Rockfish	864	167	84%
Sculpins	35	411	8%
Other Species	149	935	14%
Thornyhead Rockfish	410	67	86%
Roughey Rockfish	383	104	79%
Shortraker Rockfish*	285	199	59%
Deep-water Flatfish	93	130	42%
<b>TOTAL</b>	<b>245,566</b>	<b>10,114</b>	<b>96%</b>

2017 Trawl	Retained	Discarded	% Retained
Pollock	182,311	2,051	99%
Arrowtooth Flounder	24,585	1,728	93%
Pacific Ocean Perch*	20,302	3,669	85%
Pacific Cod	12,921	112	99%
Dusky Rockfish	2,384	146	94%
Shallow-water Flatfish	2,040	462	82%
Flathead Sole	1,812	124	94%
Northern Rockfish	1,689	112	94%
Sablefish*	971	488	67%
Rex Sole	1,403	52	96%
Skates*	744	448	62%
Atka Mackerel	693	375	65%
Other Rockfish	627	189	77%
Sculpins	6	763	1%
Other Species	43	375	10%
Thornyhead Rockfish	379	23	94%
Roughey Rockfish	330	24	93%
Shortraker Rockfish*	244	43	85%
Deep-water Flatfish	70	171	29%
<b>TOTAL</b>	<b>253,553</b>	<b>13,372</b>	<b>95%</b>

Sorted by 2017 Total catch; \* prohibited retention of that species in that year

# GOA Fixed Gear Groundfish Retained and Discarded

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2016 Hook-and-Line	Retained	Discarded	% Retained
Pacific Cod	7,269	477	94%
Sablefish	7,642	651	92%
Skates*	296	3,145	9%
Sharks	3	1,187	0%
Thornyhead	461	181	72%
Sculpins	1	332	0%
Other Rockfish	87	202	30%
Shortraker Rockfish*	94	199	32%
Other Species	87	92	49%
Rougheye Rockfish	87	66	57%
Arrowtooth Flounder	9	136	6%
Demersal Shelf Rockfish	105	4	96%
<b>TOTAL</b>	<b>16,140</b>	<b>6,671</b>	<b>71%</b>

2017 Hook-and-Line	Retained	Discarded	% Retained
Pacific Cod	7,790	486	94%
Sablefish	7,558	541	93%
Skates*	238	2,846	8%
Sharks	0	1,106	0%
Thornyhead	453	162	74%
Sculpins		365	0%
Other Rockfish	103	201	34%
Shortraker Rockfish*	88	177	33%
Other Species	78	133	37%
Rougheye Rockfish	98	85	54%
Arrowtooth Flounder	20	144	12%
Demersal Shelf Rockfish	112	4	97%
<b>TOTAL</b>	<b>16,538</b>	<b>6,250</b>	<b>73%</b>

2016 Pot	Retained	Discarded	% Retained
Pacific Cod	19,129	116	99%
Sablefish	na	8	0%
Other Species	33	634	5%
Octopus	203	137	60%
<b>TOTAL</b>	<b>19,365</b>	<b>896</b>	<b>96%</b>

2017 Pot	Retained	Discarded	% Retained
Pacific Cod	12,357	65	99%
Sablefish	883	14	98%
Other Species	34	240	12%
Octopus	156	26	86%
<b>TOTAL</b>	<b>13,430</b>	<b>344</b>	<b>98%</b>

Chinook Salmon	Total Catch	Limit *	%
Pollock Western GOA (#) *	7,088	7,088	100%
Pollock Central GOA (#) *	14,142	17,912	79%
Pollock 640 (#)	0	0	na
Catcher Vessel Non-pollock / Non-Rockfish Program (#)	2,235	3,060	73%
Catcher Vessel Rockfish Program (#)	399	1,200	33%
Catcher Processors (#)	778	4,080	19%
Non-trawl Gear (#)	73	0	na
<b>TOTAL (#)</b>	<b>24,715</b>	<b>33,340</b>	<b>74%</b>

\*Includes reallocation of 404 salmon from Central GOA Pollock to Western GOA Pollock on November 20, 2017.

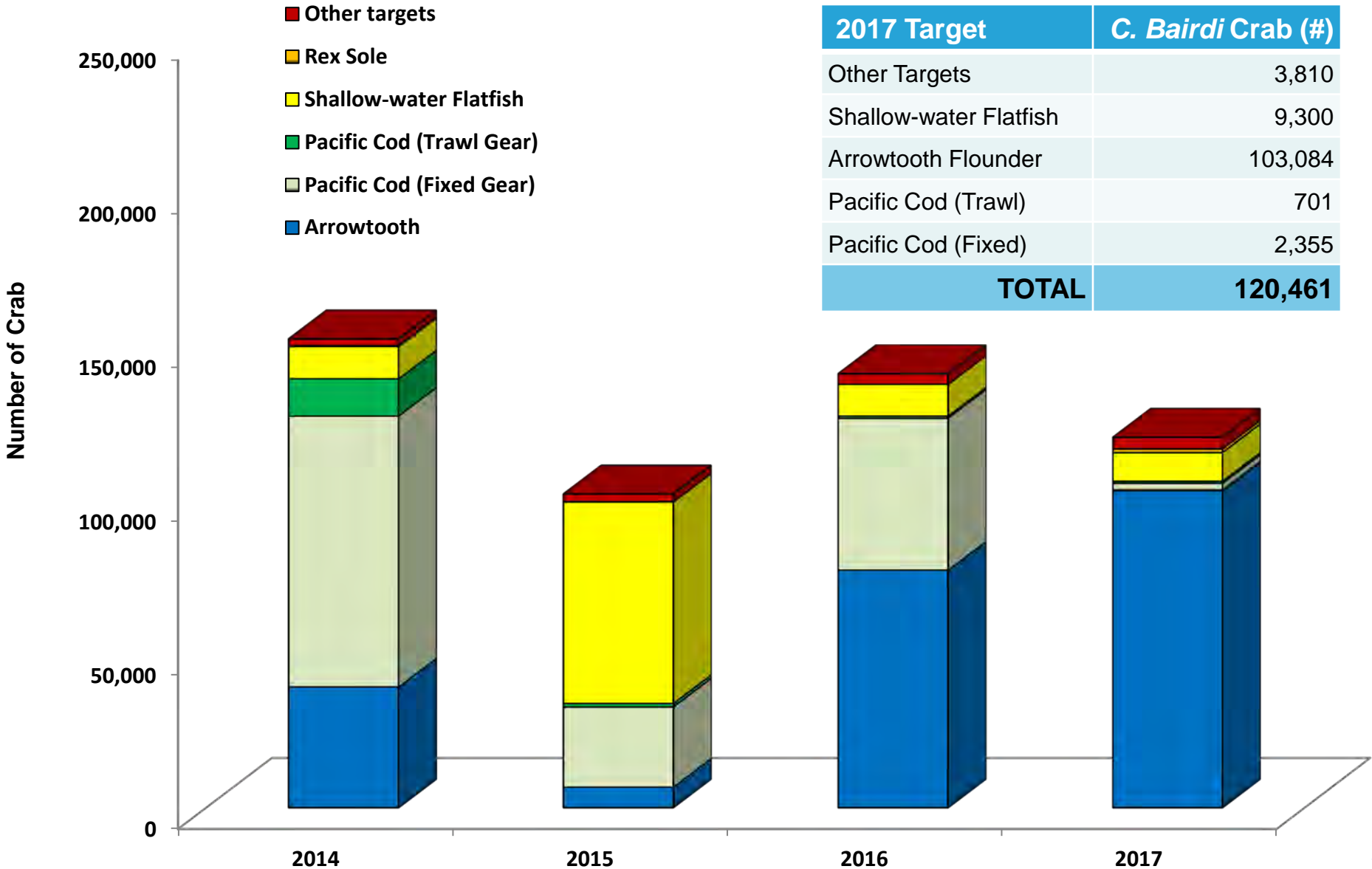
Other PSC Species	Total Catch	Limit	%
Non-Chinook Salmon (#)	5,811	na	na
Trawl Bairdi Tanner (#)	120,461	na	na
Fixed Gear Bairdi Tanner (#)	2,381	na	na
Red King Crab (#)	0	na	na
Golden King Crab (#)	336	na	na
Herring (mt)	6	na	na



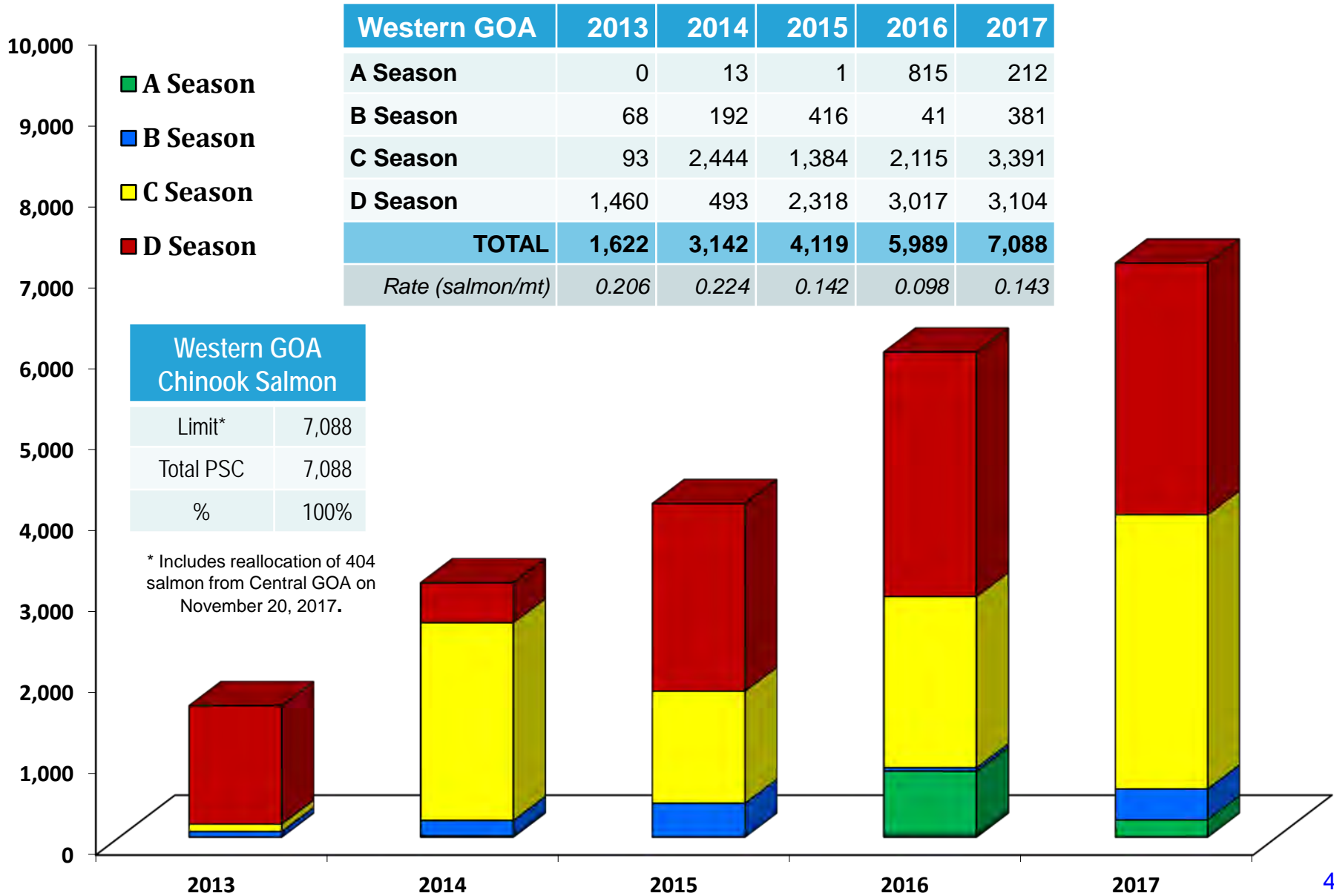
*Crab and Salmon PSC is reported in number of animals*

# 2014 – 2017 GOA *C. Bairdi* Tanner Crab

## Incidental Catch by Target

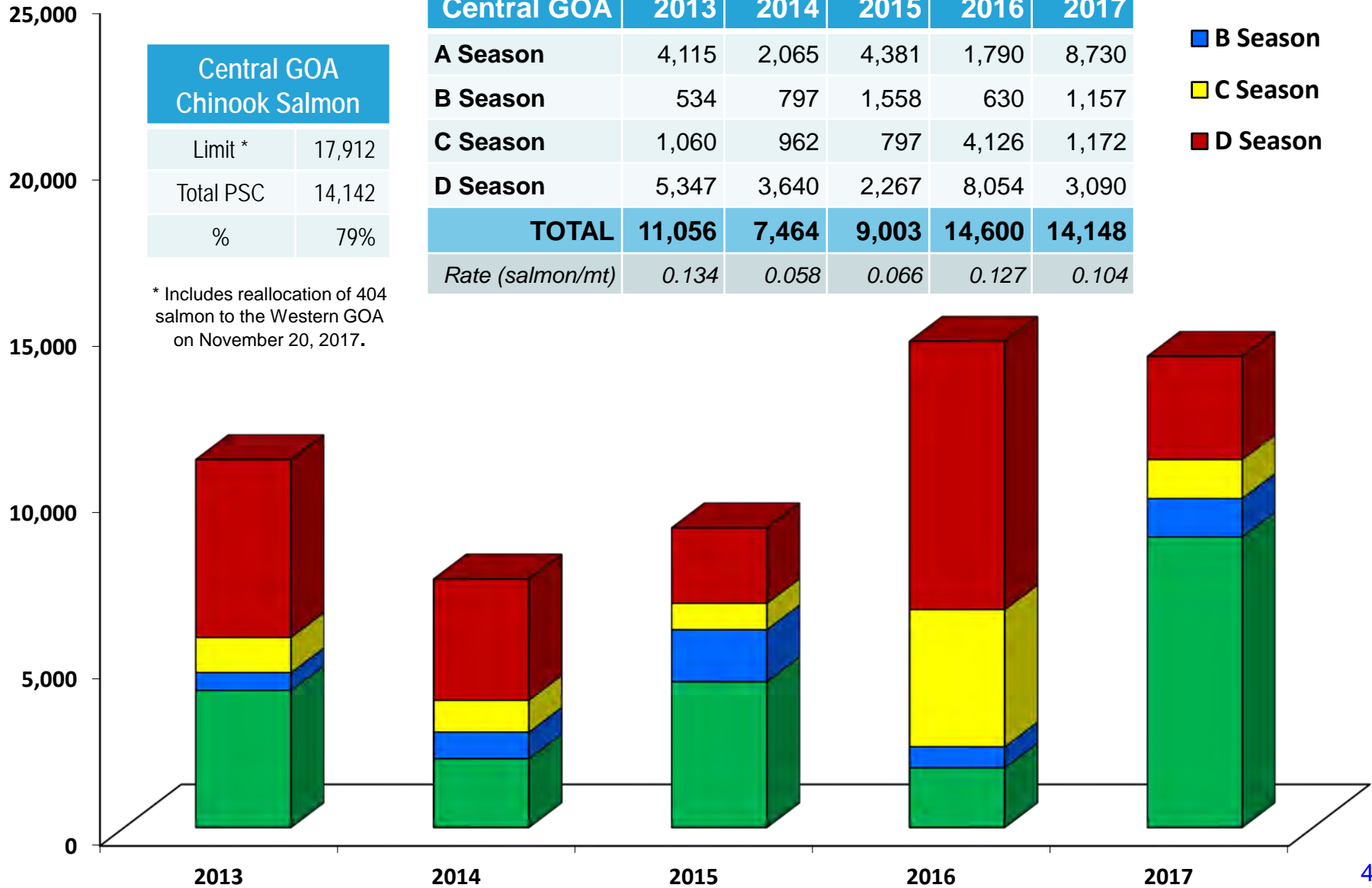


# 2013 – 2017 Chinook Salmon PSC in Western GOA Pollock Fisheries

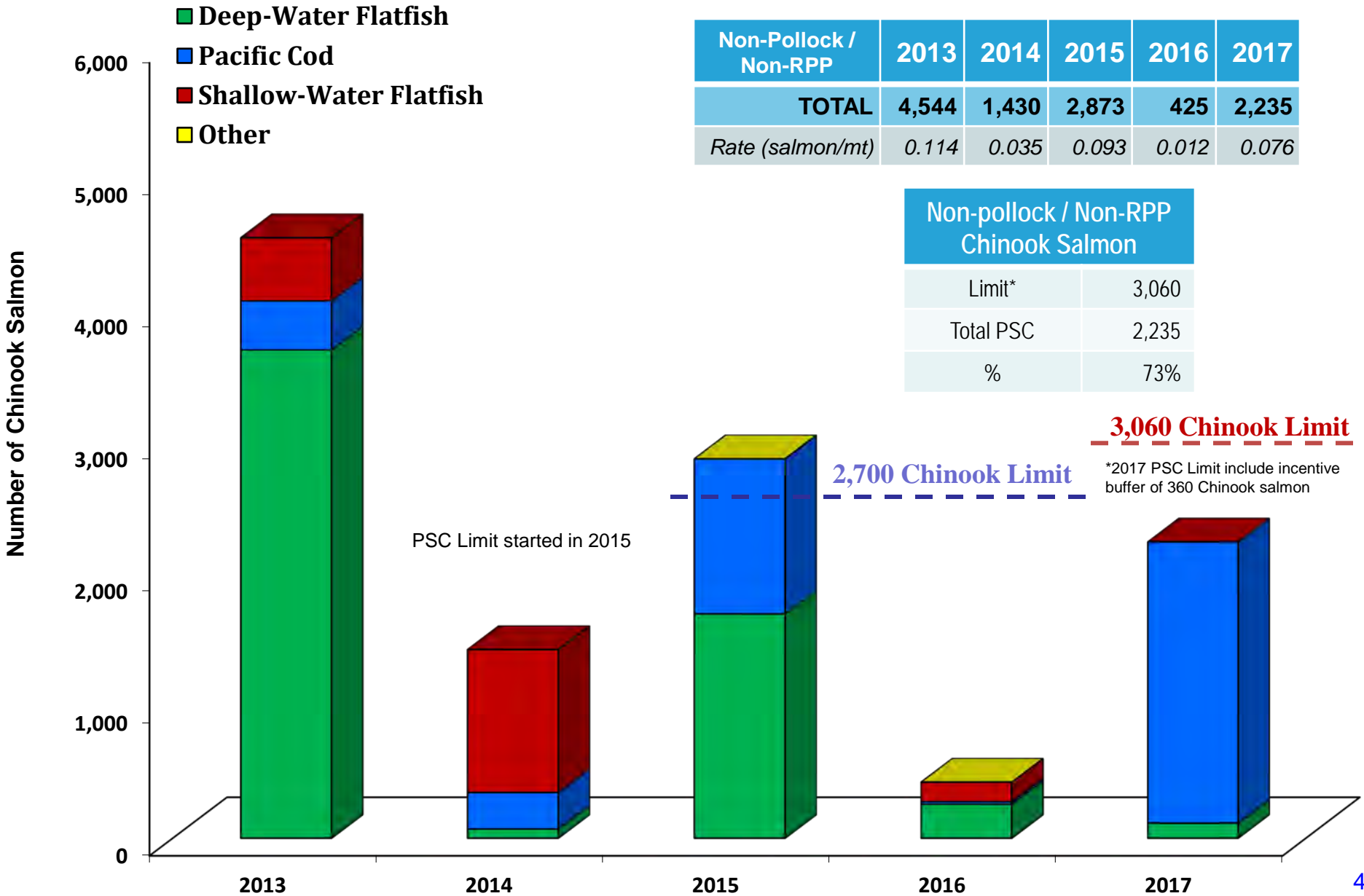




# 2013 – 2017 Chinook Salmon PSC in Central GOA Pollock Fisheries



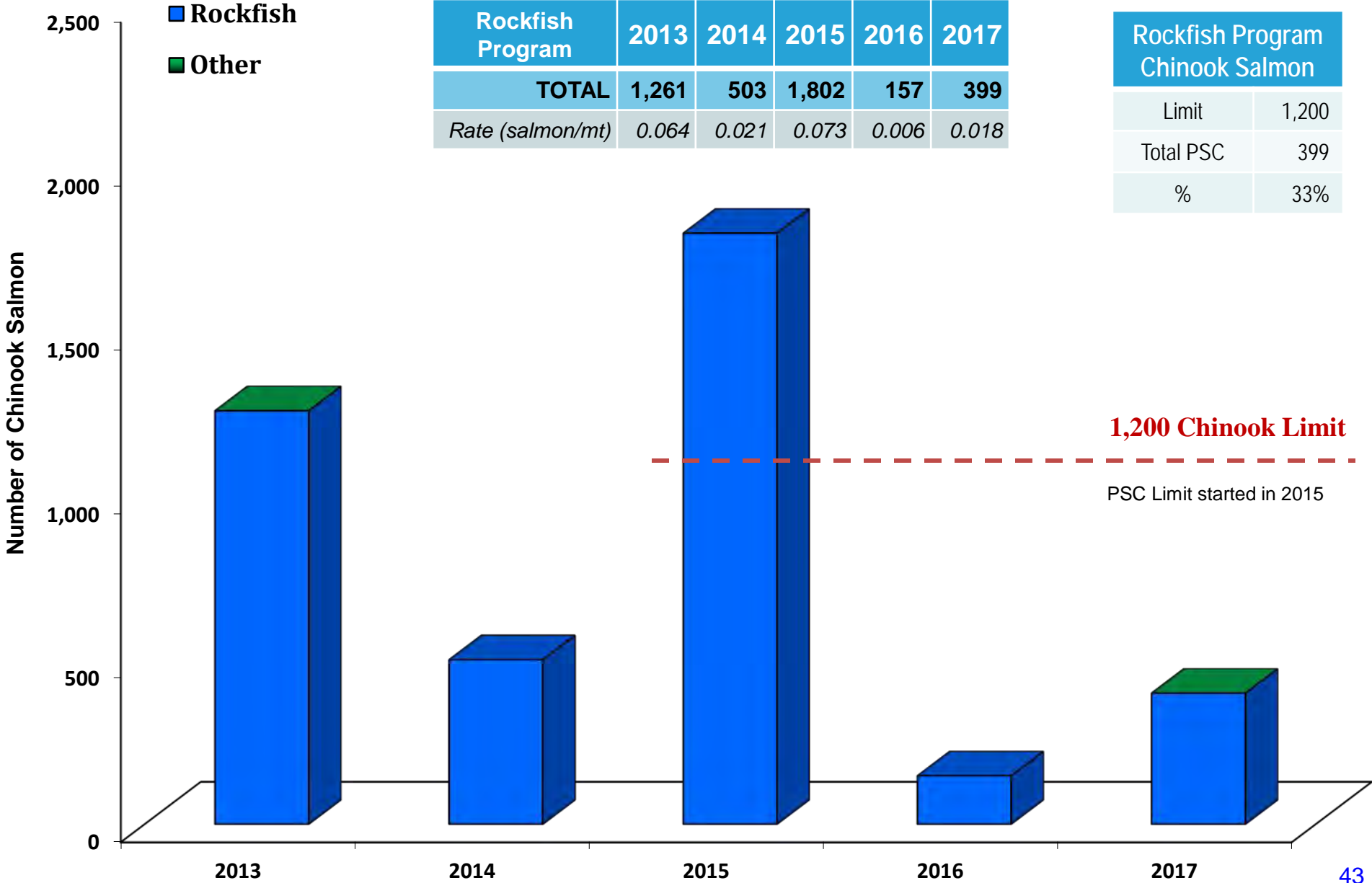
# 2013 – 2017 Chinook Salmon PSC in Non-Pollock / Non-Rockfish Program



# 2013 – 2017 Chinook Salmon PSC in Rockfish Program

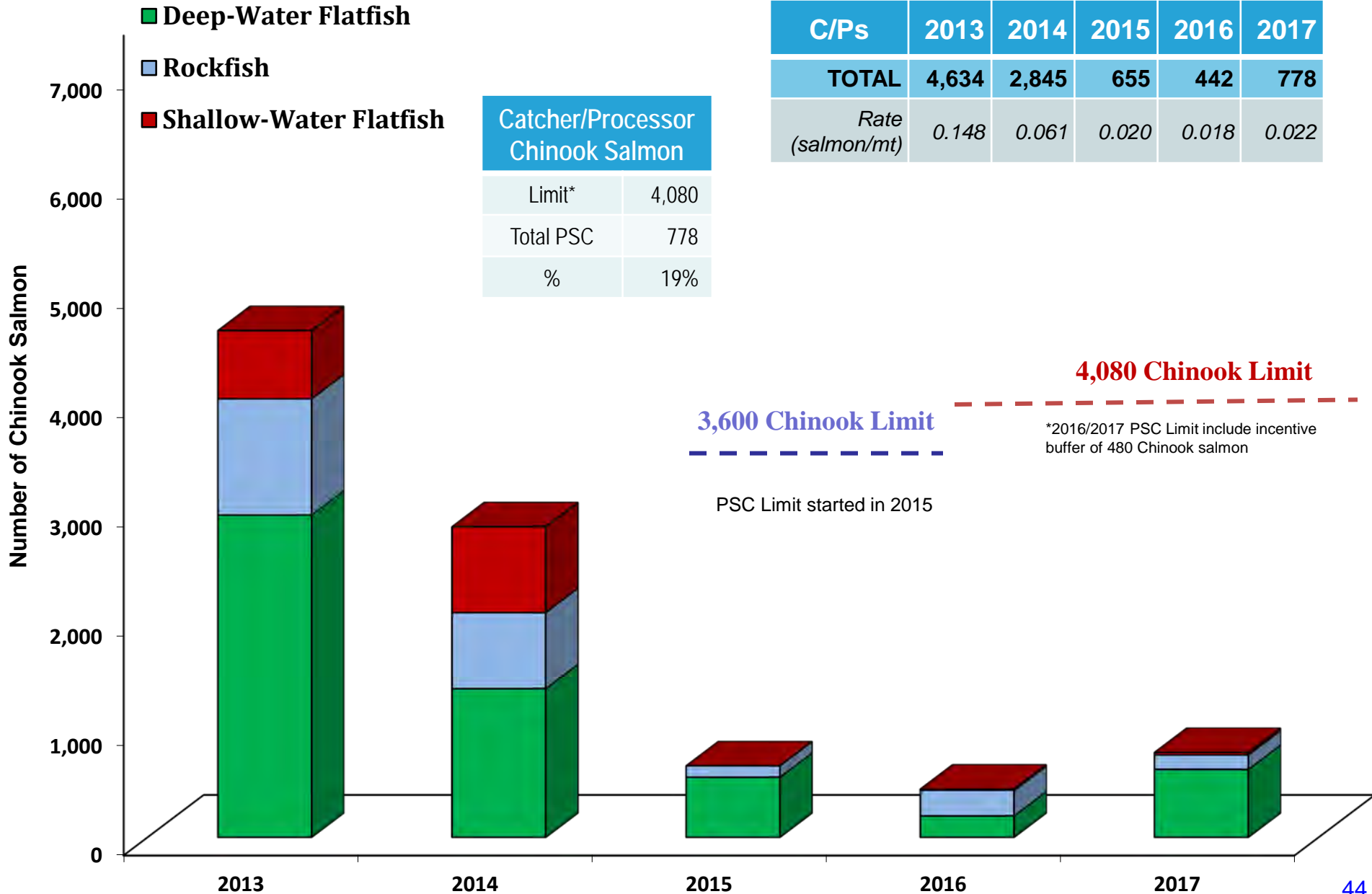
Rockfish Program	2013	2014	2015	2016	2017
<b>TOTAL</b>	<b>1,261</b>	<b>503</b>	<b>1,802</b>	<b>157</b>	<b>399</b>
<i>Rate (salmon/mt)</i>	<i>0.064</i>	<i>0.021</i>	<i>0.073</i>	<i>0.006</i>	<i>0.018</i>

Rockfish Program Chinook Salmon	
Limit	1,200
Total PSC	399
%	33%



# 2013 – 2017 Chinook Salmon PSC by Catcher/Processors

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# 2017 GOA Halibut Catch

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Hook-and-Line Halibut (mt)	Retained	Discard*	% Discarded	Mortality**	Limit	%
IFQ Halibut Fishery	7,952	5,238	40%	838	na	na
IFQ Sablefish Fishery	929	770	45%	85	na	na
Pacific Cod \ Other Targets	35	1,443	98%	163	257	63%
<b>TOTAL</b>	<b>8,916</b>	<b>7,451</b>	<b>46%</b>	<b>1,086</b>	<i>na</i>	<i>na</i>



### All Catch, retained and discarded is in round weight metric tons

\* Halibut discards are based on best available information collected by the North Pacific Observer program. Methods used by observers may overestimate total discards because average weights contain both retained and discarded halibut.

\*\*Halibut Mortality rate in IFQ Halibut is 16%,

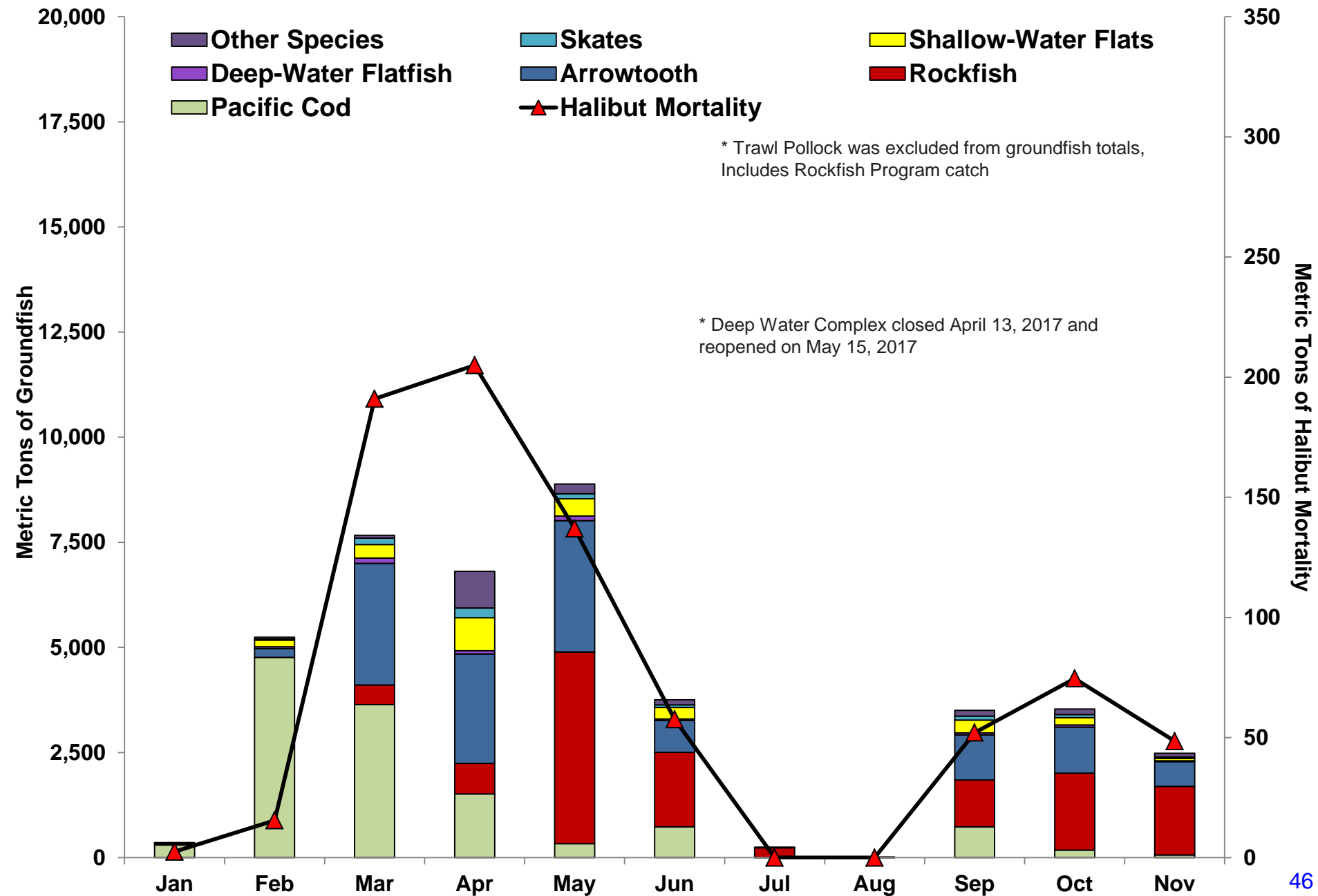
Gilroy, H.L. 2012. Incidental mortality of halibut in the commercial halibut fishery (Wastage). Int. Pac. Halibut Comm. Report of Assessment and Research Activities

IFQ Sablefish and Pacific cod halibut mortality rate is 11% for catcher processors and 12% for catcher vessels

Trawl Halibut (mt)	Total Discard	Mortality	Mortality Limit	%
Pollock	111	74	1,706	72%
Pacific Cod	148	93		
Rockfish \ Sablefish	131	104		
Arrowtooth Flounder	1,261	888		
Deep Water Flatfish	12	11		
Shallow Water Flatfish	76	50		
<b>TOTAL</b>	<b>1,739</b>	<b>1,220</b>	<b>1,706</b>	<b>72%</b>

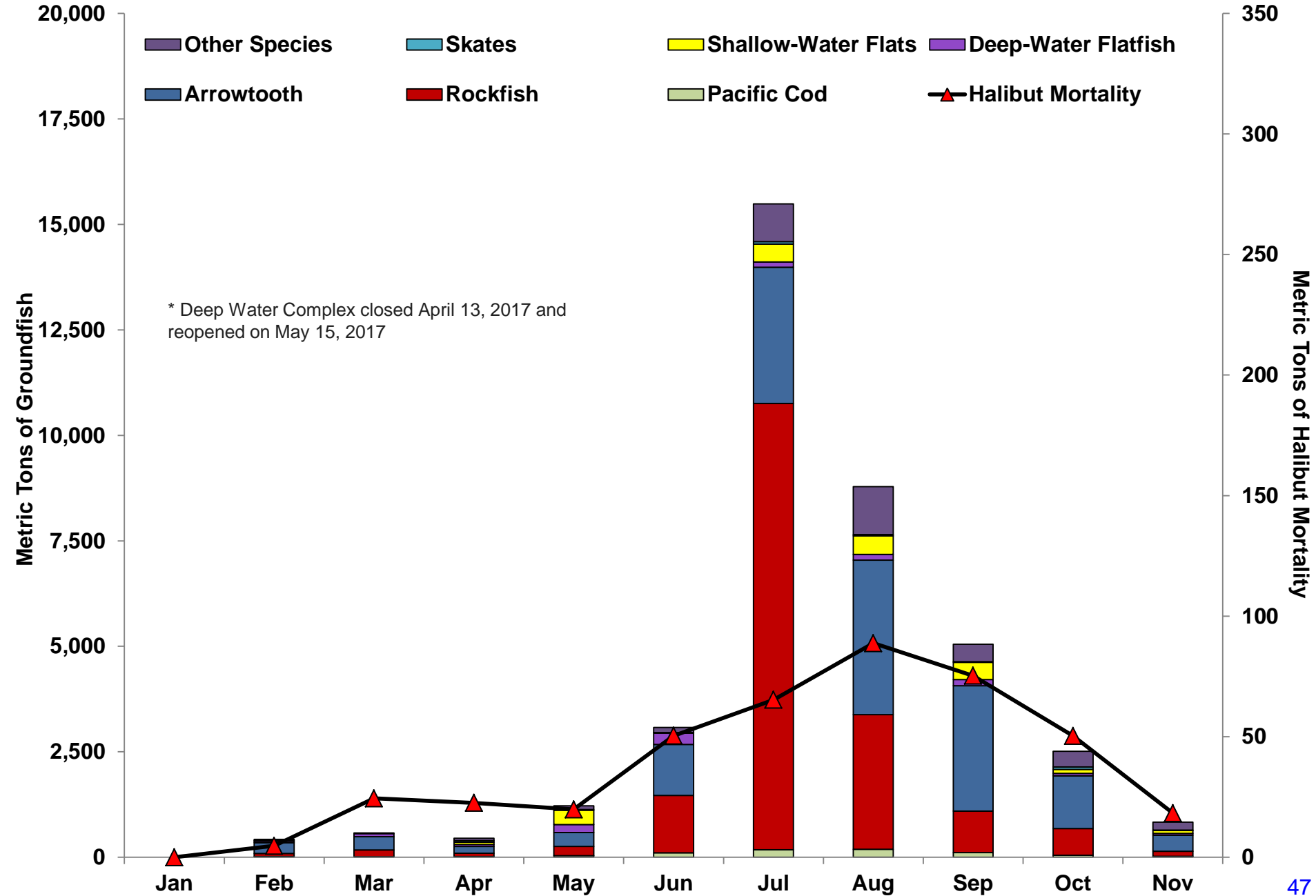
# 2017 GOA Catcher Vessel Trawl Catch and Halibut Mortality

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# 2017 GOA Catcher/Processor Trawl Catch and Halibut Mortality

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# 2017 Trawl Halibut Mortality

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	Season	Start Date	End Date	Limit (mt)	Total Mortality (mt)	%
Deep Water Species	1	Jan 20	Apr 1	221	220	100%
	2	Apr 1	Jul 1	354	354	100%
	3	Jul 1	Sep 1	225	108	48%
	4	Sep 1	Sep 30	0	87	n/a
	<b>TOTAL</b>				<b>800</b>	<b>769</b>
Shallow Water Species	Season					
	1	Jan 20	Apr 1	28	28	100%
	2	Apr 1	Jul 1	119	120	101%
	3	Jul 1	Sep 1	184	2	1%
	4	Sep 1	Sep 30	128	35	27%
<b>TOTAL</b>				<b>459</b>	<b>184</b>	<b>40%</b>
Rockfish Program				191	82	43%
Season 5 Halibut Allocation		Oct 1	Dec 31	256	185	36%
<b>TOTAL Halibut Mortality</b>				<b>1,706</b>	<b>1,220</b>	<b>71%</b>

\*Includes reallocation between Deep water and Shallow water in July



# 2017 GOA Reduction in Halibut Mortality Compared to 5 year Average

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Sector	2012-2017 Average (mt)	2017 (mt)	% Change (mt)	2012-2017 Rate*	2017 Rate*	% Change in rate
<b>Hook-and-line</b>						
Catcher/Processors	62	66	7%	10.78	9.37	-13%
Catcher Vessels	142	99	-30%	16.43	24.09	47%
<b>Total</b>	<b>204</b>	<b>165</b>	<b>-19%</b>	<b>13.76</b>	<b>14.82</b>	<b>8%</b>
<b>Trawl Catcher Vessels</b>						
Central GOA Catcher Vessels (NPT)	940	753	-20%	20.62	21.72	5%
Western GOA Catcher Vessels (NPT)	86	18	-79%	12.21	2.22	-82%
Pelagic Trawl Catcher Vessels	10	16	52%	0.09	0.08	-2%
<b>Total</b>	<b>1,036</b>	<b>786</b>	<b>-24%</b>	<b>5.71</b>	<b>3.45</b>	<b>-40%</b>
<b>Trawl Catcher/Processors</b>						
<b>Total</b>	<b>378</b>	<b>428</b>	<b>13%</b>	<b>10.68</b>	<b>10.99</b>	<b>3%</b>
<b>All Sectors</b>						
<b>TOTAL</b>	<b>1,618</b>	<b>1,380</b>	<b>-15%</b>	<b>6.93</b>	<b>4.96</b>	<b>-28%</b>

\* Rate is kg of halibut / mt of groundfish

# 2017 GOA Reduction in Halibut Mortality Compared to 2016

B3 GOA Inseason Management Report  
DECEMBER 2017

Sector	2016 (mt)	2017 (mt)	% Change (mt)	2016 Rate*	2017 Rate*	% Change in rate
<b>Hook-and-line</b>						
Catcher/Processors	76	66	-13%	12.35	9.37	-24%
Catcher Vessels	166	99	-40%	30.60	24.09	-21%
<b>Total</b>	<b>241</b>	<b>165</b>	<b>-31%</b>	<b>20.91</b>	<b>14.82</b>	<b>-29%</b>
<b>Trawl Catcher Vessels</b>						
Central GOA Catcher Vessels (NPT)	967	753	-22%	21.61	21.72	1%
Western GOA Catcher Vessels (NPT)	107	18	-83%	13.94	2.22	-84%
Pelagic Trawl Catcher Vessels	12	16	27%	0.07	0.08	22%
<b>Total</b>	<b>1,086</b>	<b>786</b>	<b>-28%</b>	<b>4.73</b>	<b>3.45</b>	<b>-27%</b>
<b>Trawl Catcher/Processors</b>						
<b>Total</b>	<b>246</b>	<b>428</b>	<b>74%</b>	<b>8.79</b>	<b>10.99</b>	<b>25%</b>
<b>All Sectors</b>						
<b>TOTAL</b>	<b>1,573</b>	<b>1,380</b>	<b>-12%</b>	<b>5.85</b>	<b>4.96</b>	<b>-15%</b>

\* Rate is kg of halibut / mt of groundfish