



**NOAA
FISHERIES**

Alaska Region

BSAI 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:

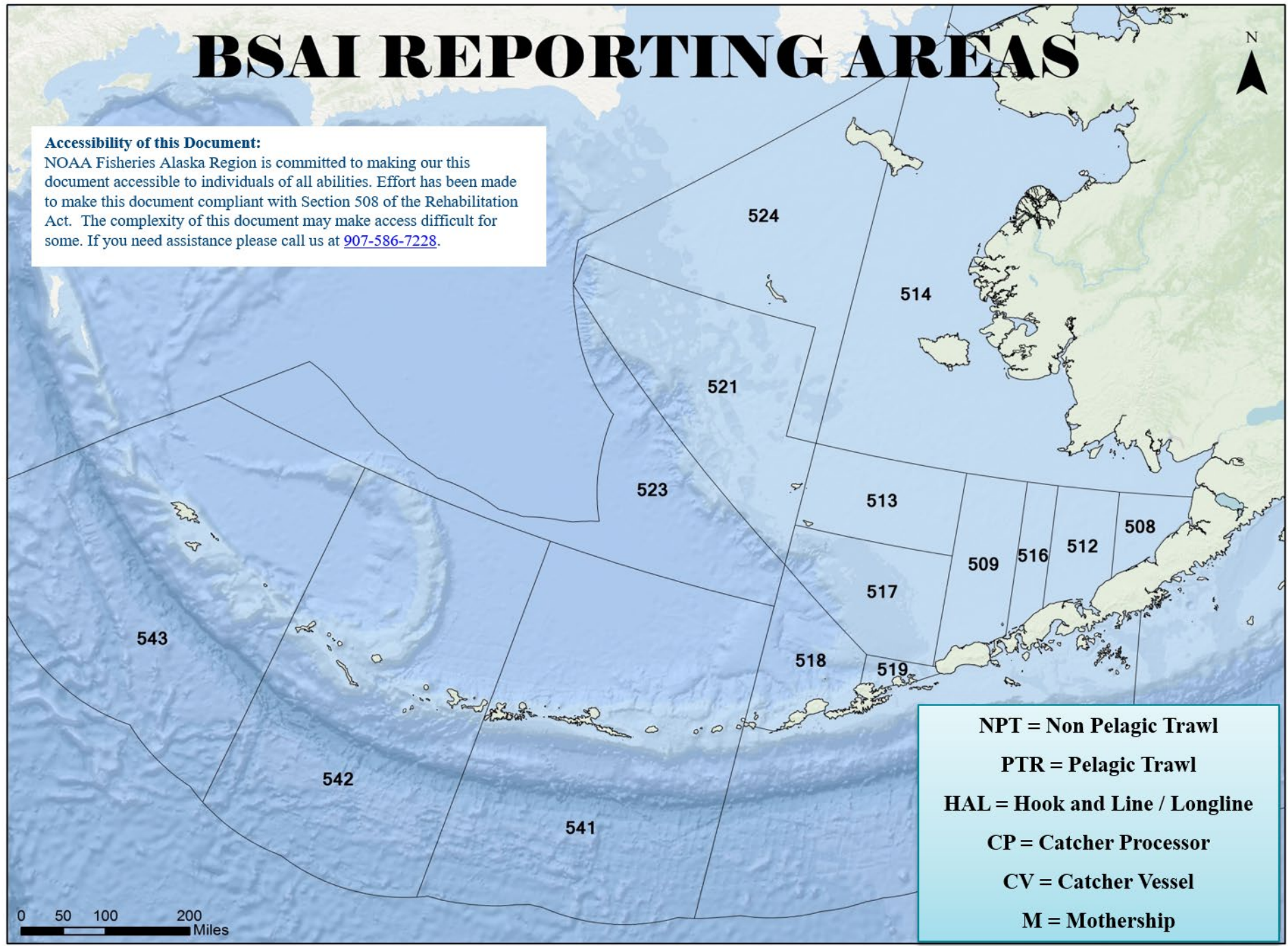
<https://www.fisheries.noaa.gov/alaska/commercial-fishing/fisheries-catch-and-landings-reports>

BSAI REPORTING AREAS



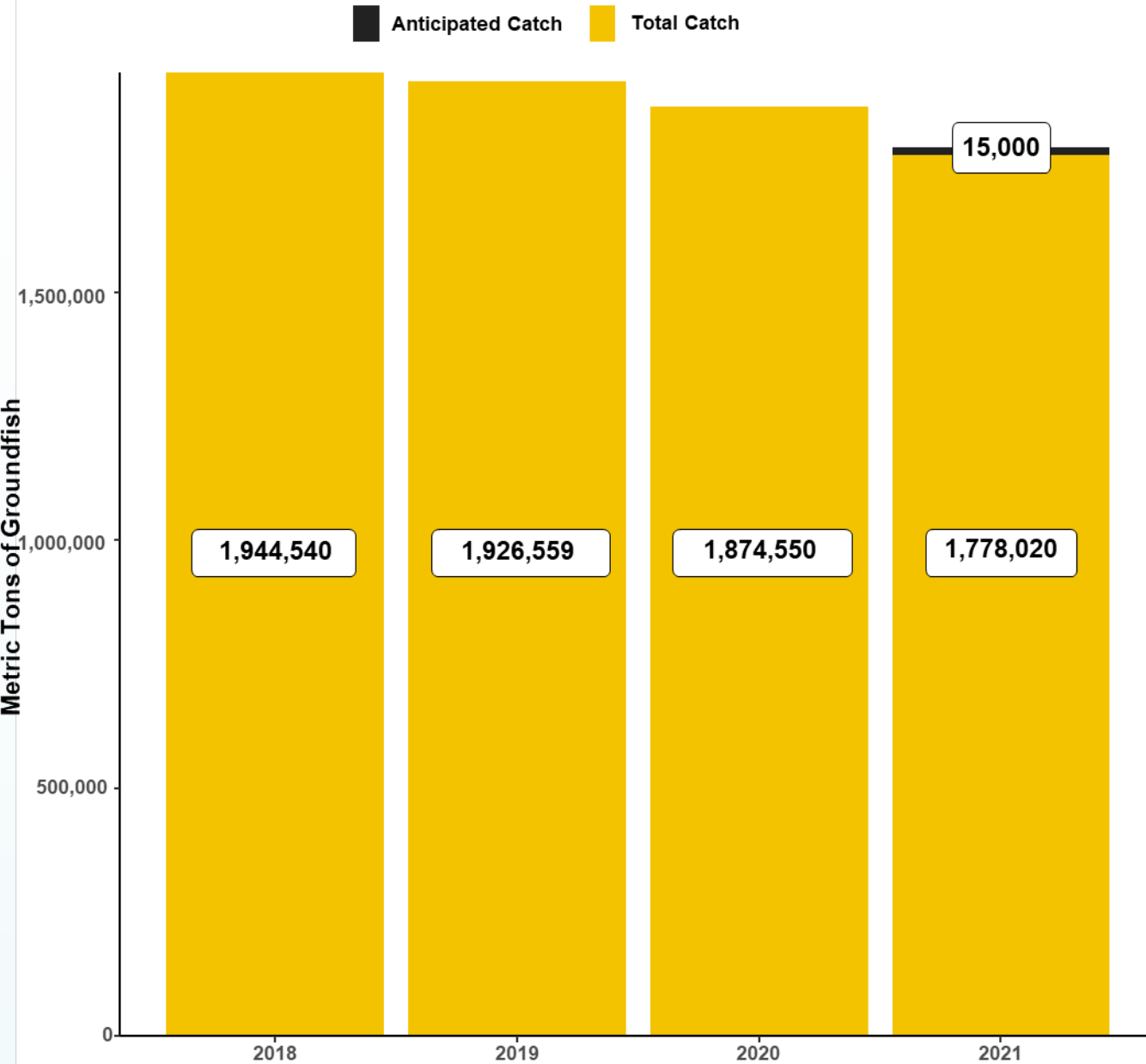
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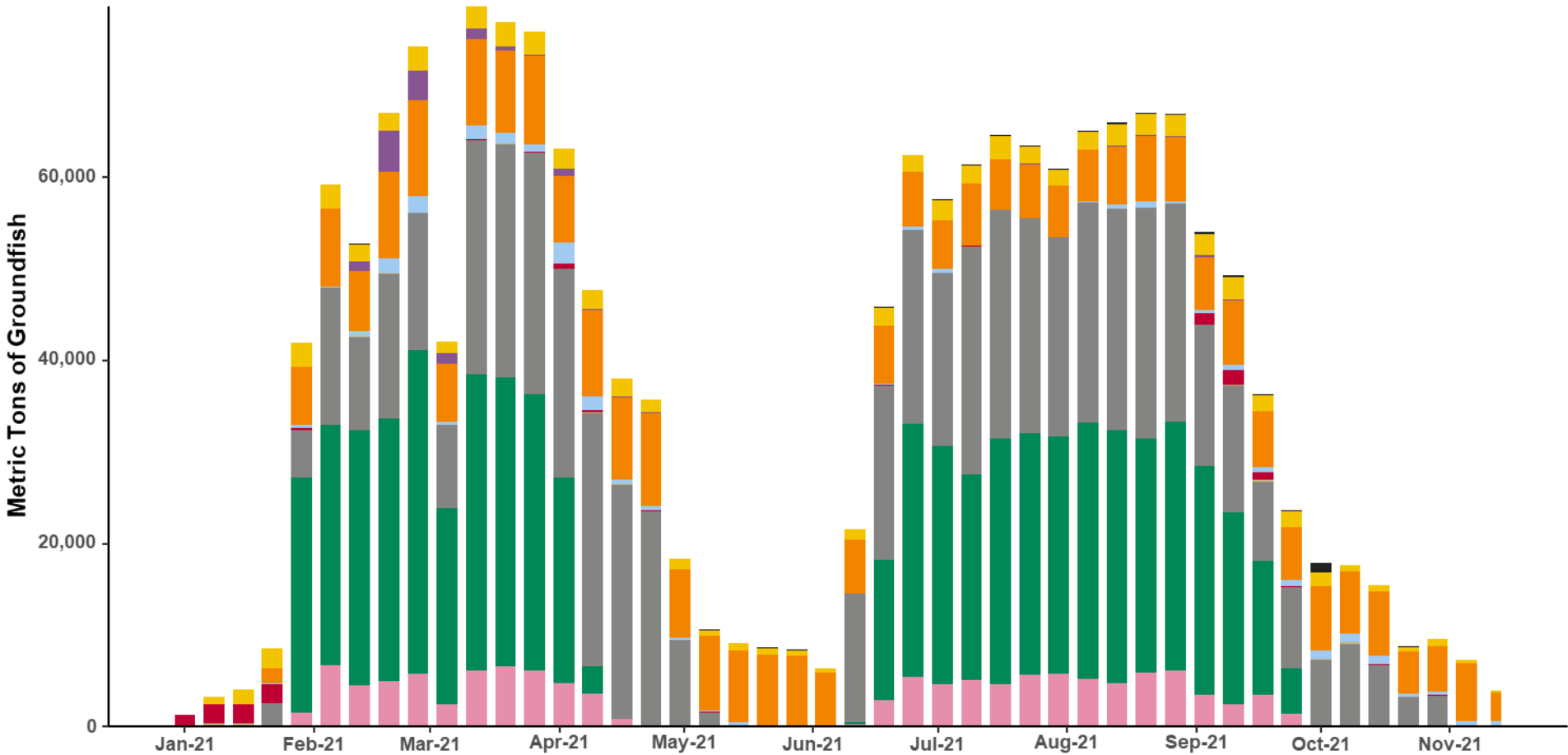
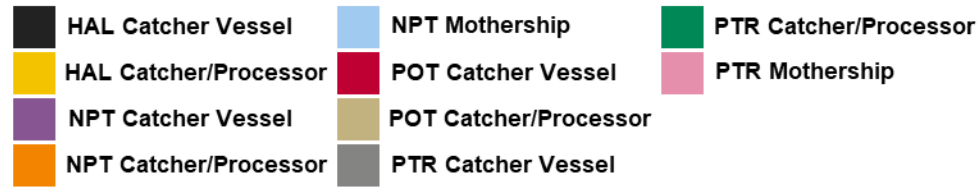
NPT = Non Pelagic Trawl
PTR = Pelagic Trawl
HAL = Hook and Line / Longline
CP = Catcher Processor
CV = Catcher Vessel
M = Mothership

2018-2021 BSAI Total Catch

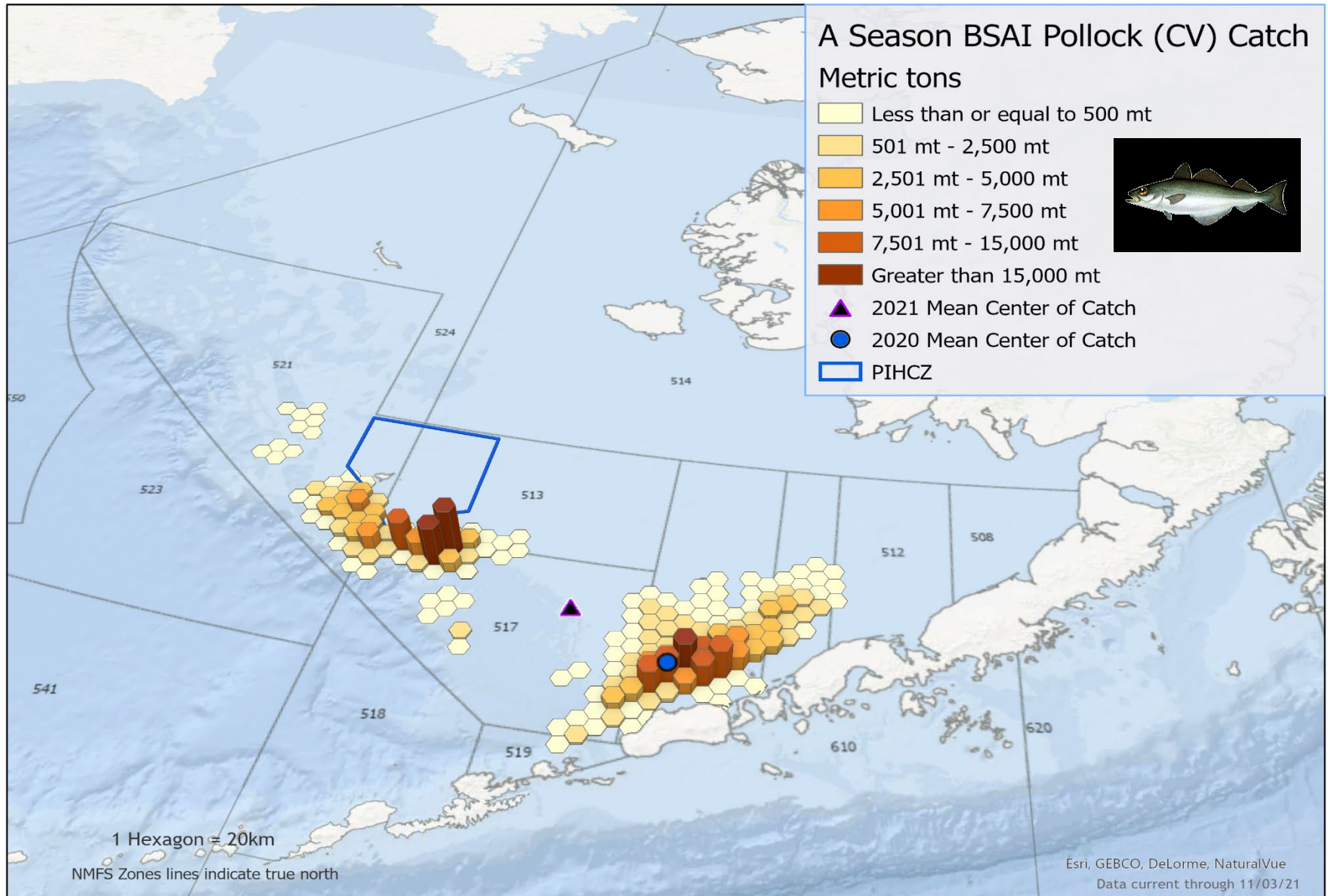


2018 TAC	2,000,000
Total Catch	1,944,540
Remaining TAC	55,460
2019 TAC	2,000,000
Total Catch	1,926,559
Remaining TAC	73,441
2020 TAC	2,000,000
Total Catch	1,874,550
Remaining TAC	125,450
2021 TAC	1,993,093
Total Catch	1,778,020
Projected Catch	15,000
Total Catch with Projected Catch	1,793,020
Remaining TAC	200,073

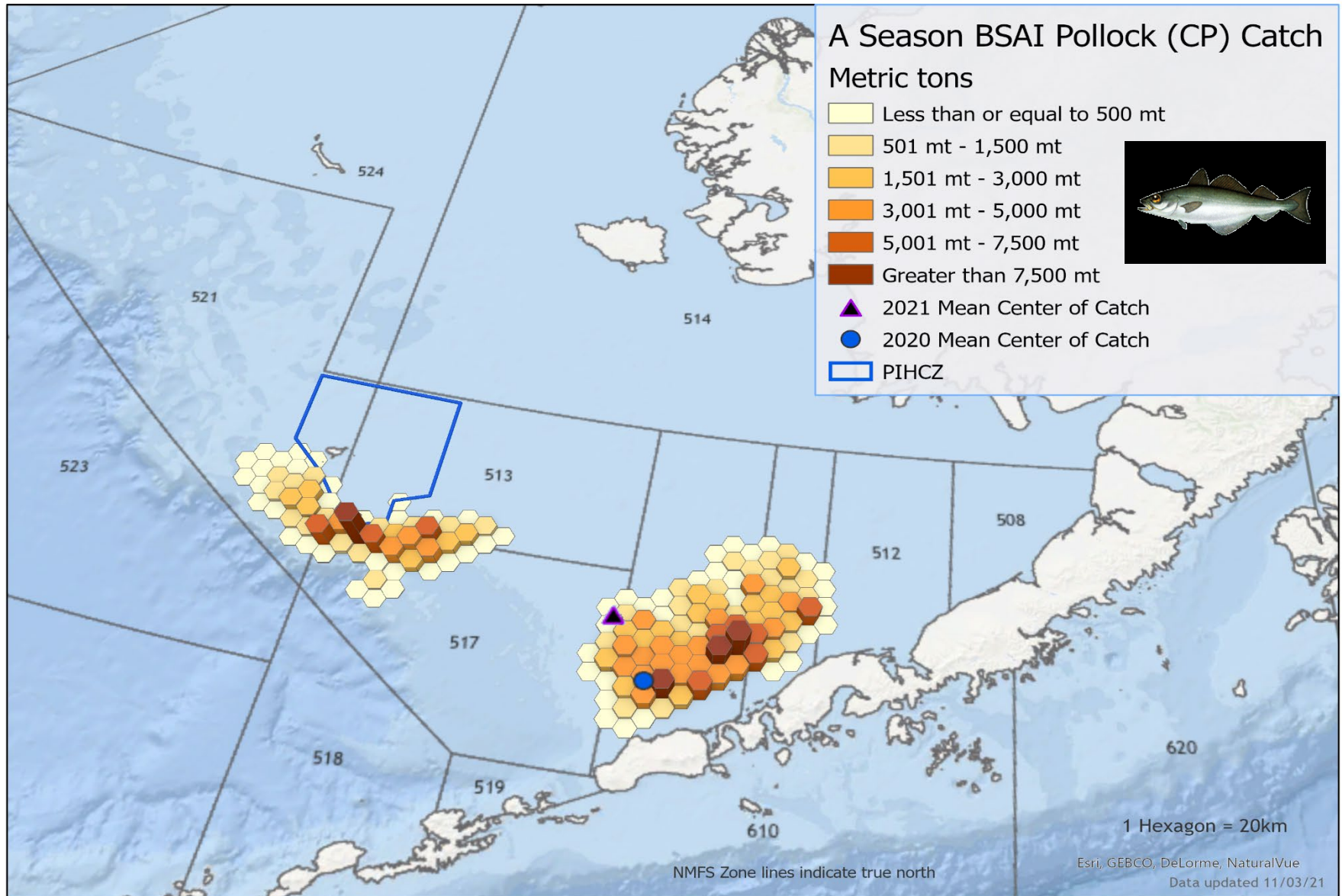
2021 BSAI Total Groundfish Catch by Gear & Sector



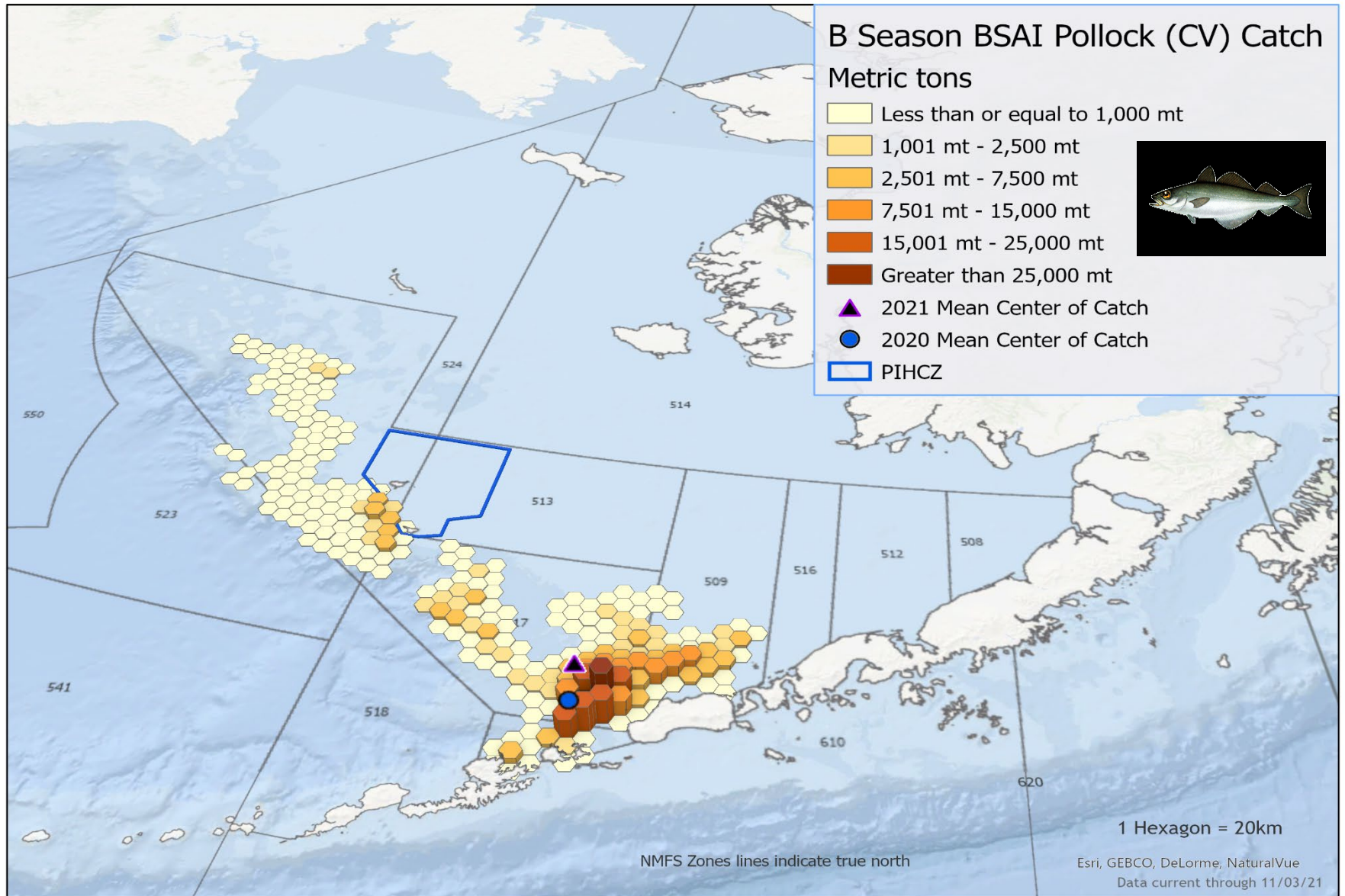
2021 A Season Bering Sea Pollock Directed Fishery (CV)



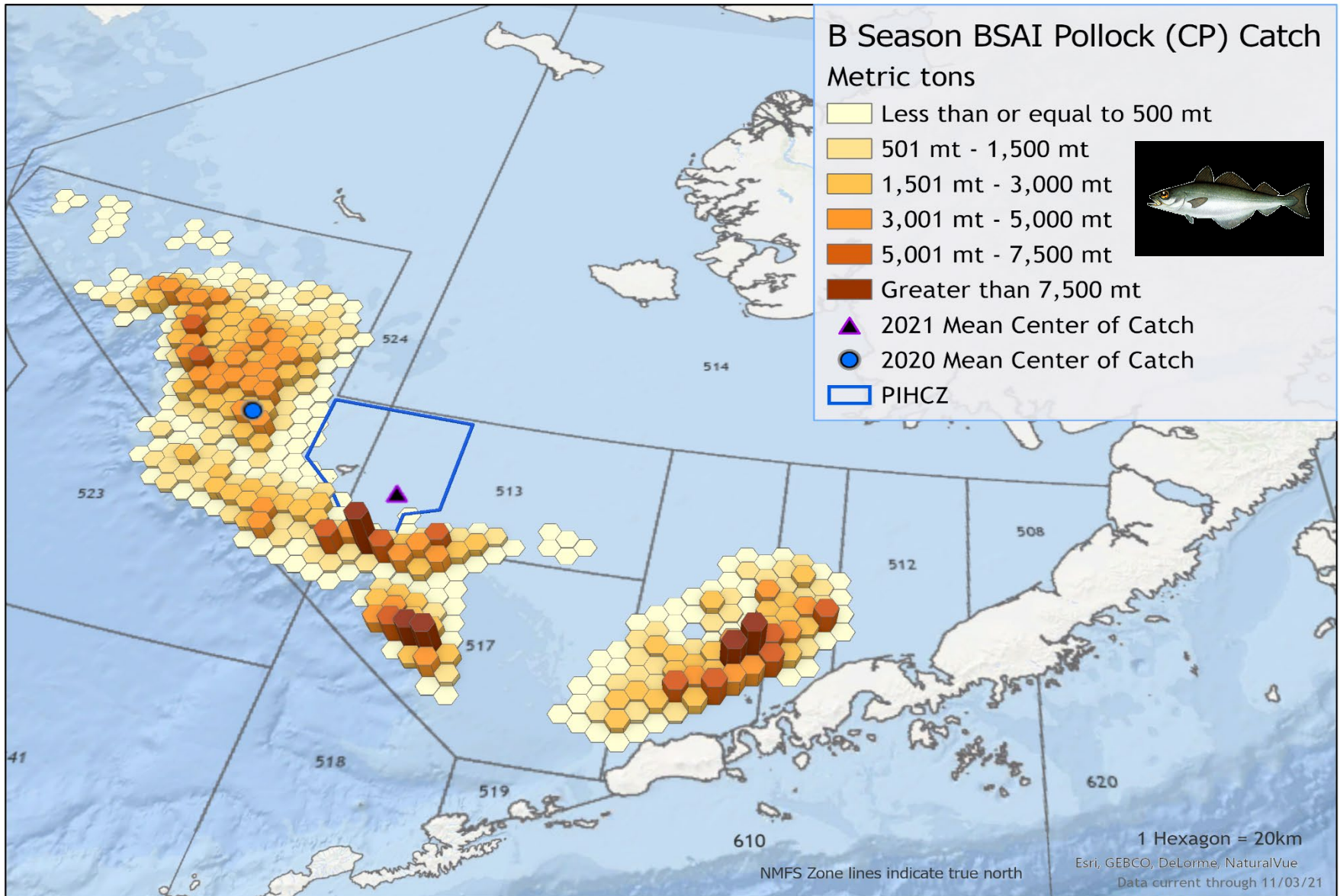
2021 A Season Bering Sea Pollock Directed Fishery (CP)



2021 B Season Bering Sea Pollock Directed Fishery (CV)



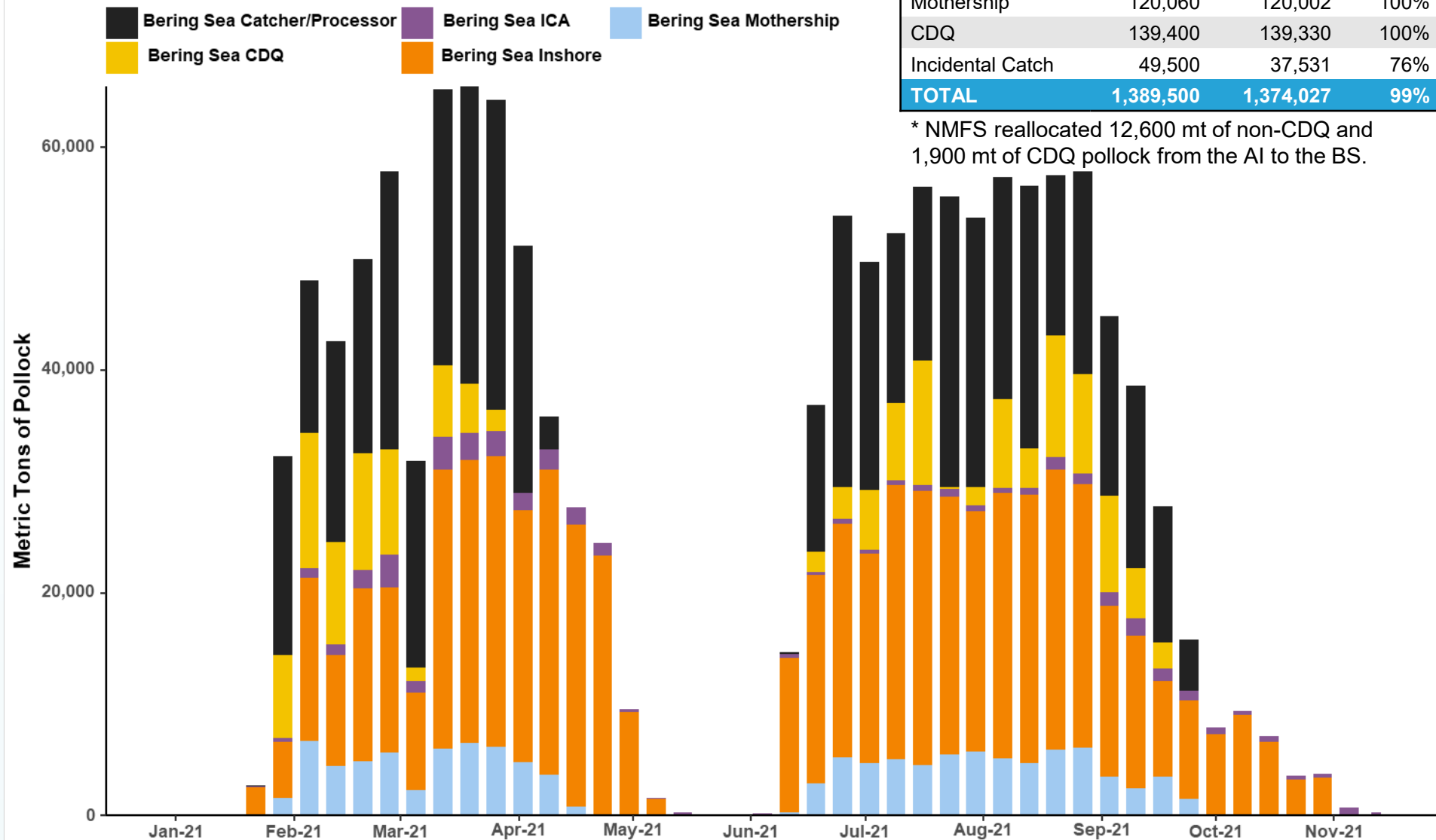
2021 B Season Bering Sea Pollock Directed Fishery (CP)



2021 Bering Sea Pollock Catch by Week and Sector

2021	TAC (mt)	Catch (mt)	%
Inshore	600,300	596,985	99%
Catcher/Processor	480,240	480,179	100%
Mothership	120,060	120,002	100%
CDQ	139,400	139,330	100%
Incidental Catch	49,500	37,531	76%
TOTAL	1,389,500	1,374,027	99%

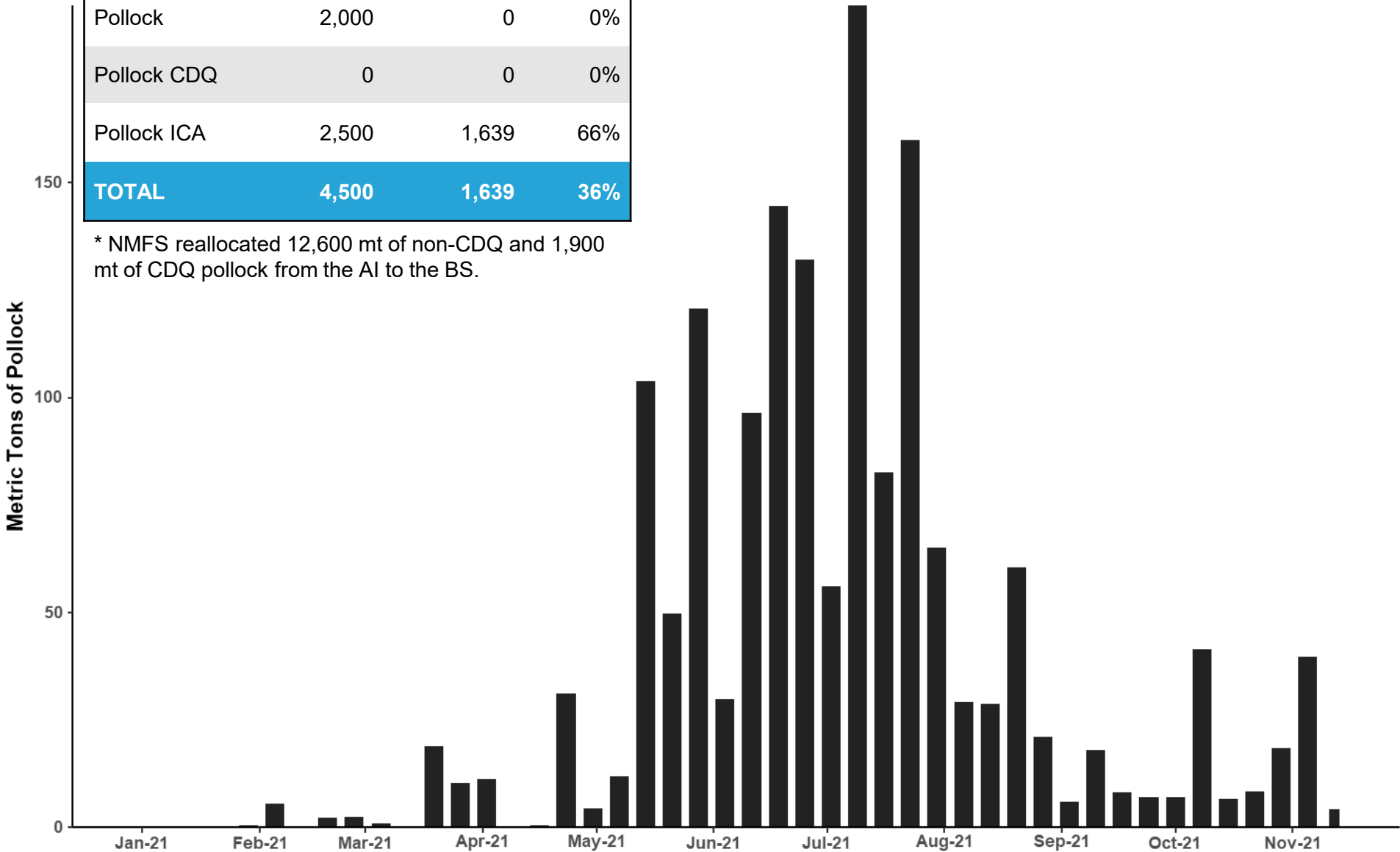
* NMFS reallocated 12,600 mt of non-CDQ and 1,900 mt of CDQ pollock from the AI to the BS.



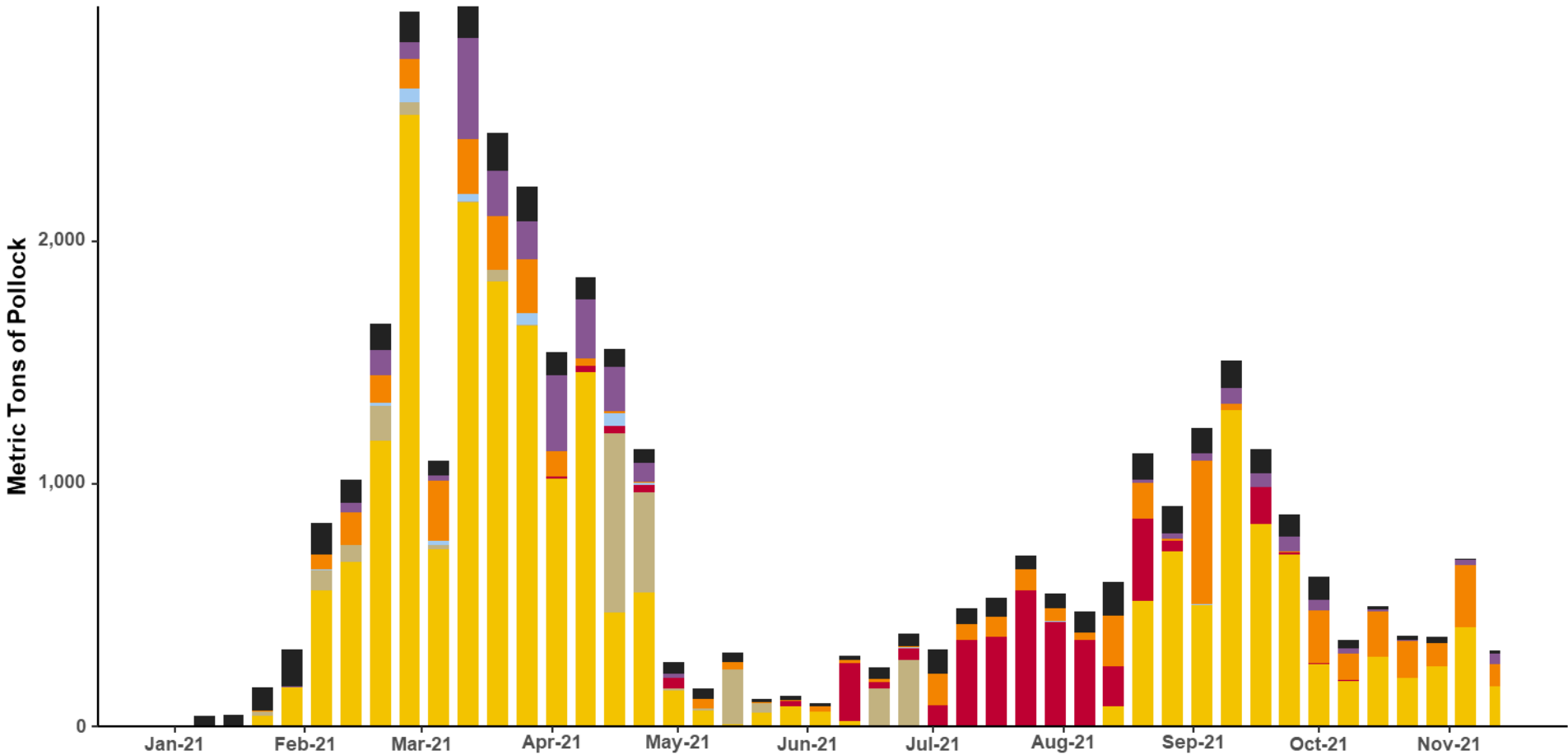
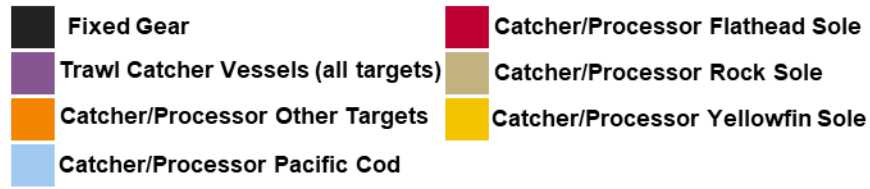
2021 Aleutian Islands Pollock Catch by Week and Sector

2021	TAC (mt)	Catch (mt)	%
Pollock	2,000	0	0%
Pollock CDQ	0	0	0%
Pollock ICA	2,500	1,639	66%
TOTAL	4,500	1,639	36%

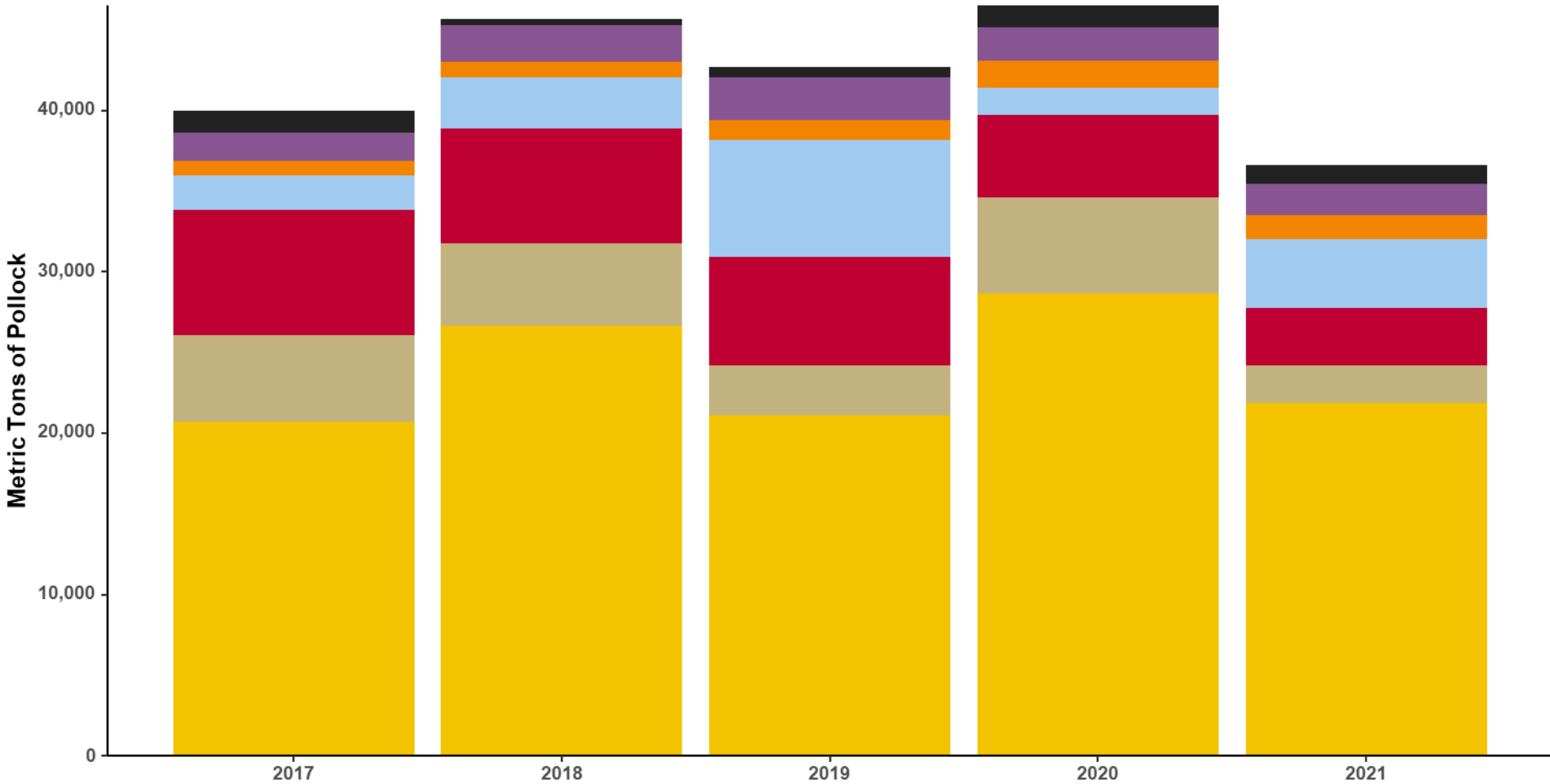
* NMFS reallocated 12,600 mt of non-CDQ and 1,900 mt of CDQ pollock from the AI to the BS.



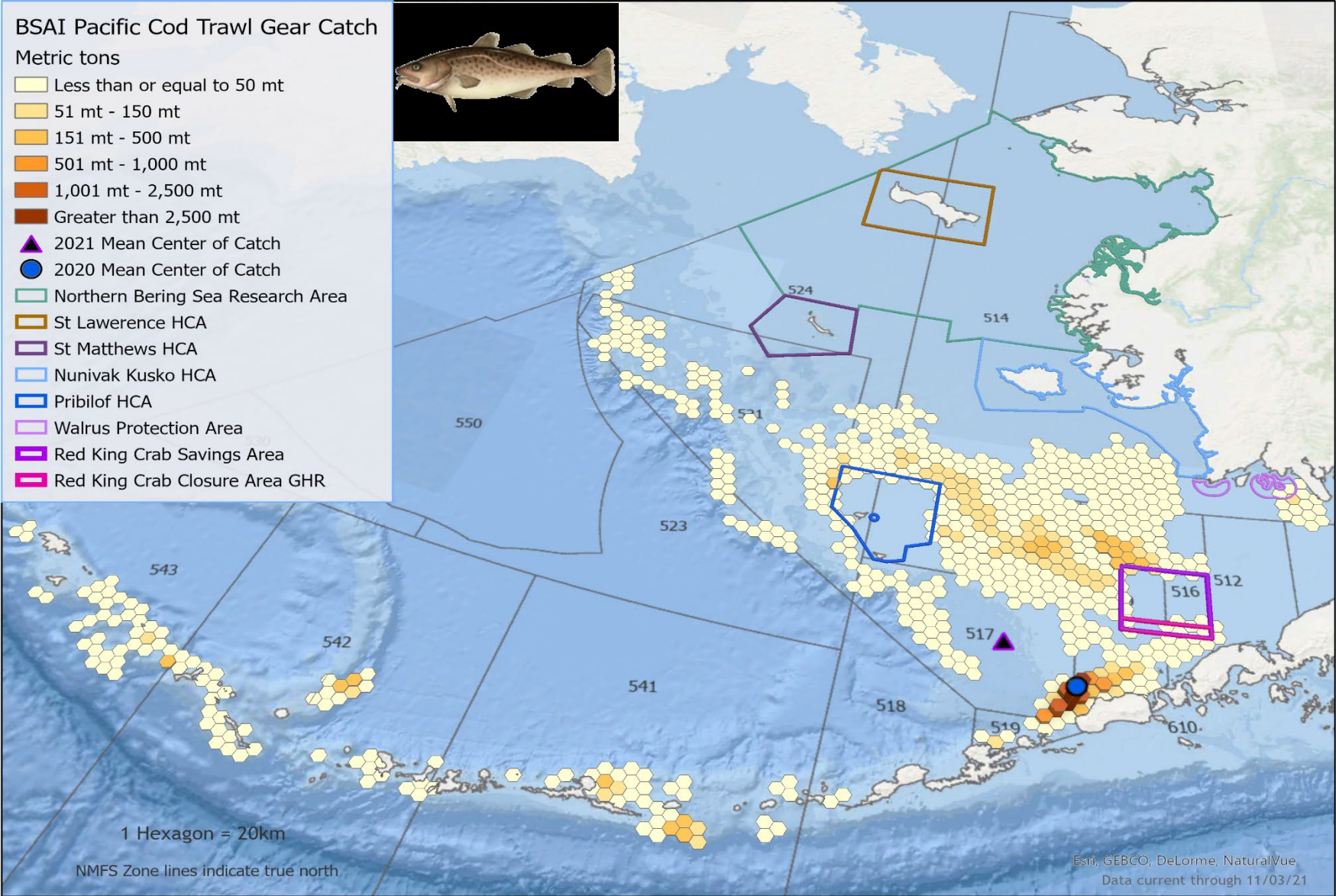
2021 Bering Sea Pollock ICA Catch by Week and Sector



2017-2021 Trawl Catcher/Processor Incidental Catch of Pollock by Year and Target



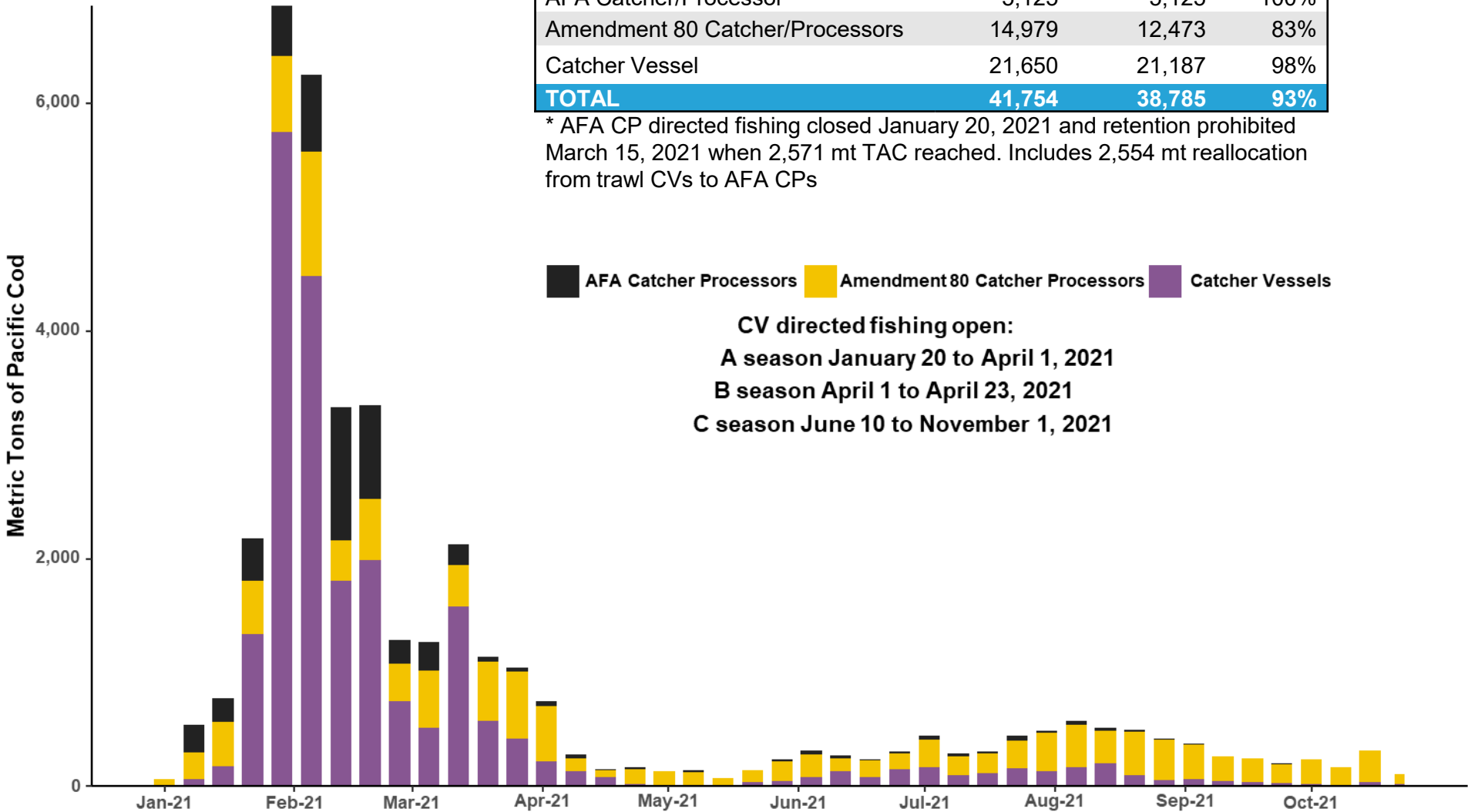
2021 Pacific Cod Catch by Trawl Gear



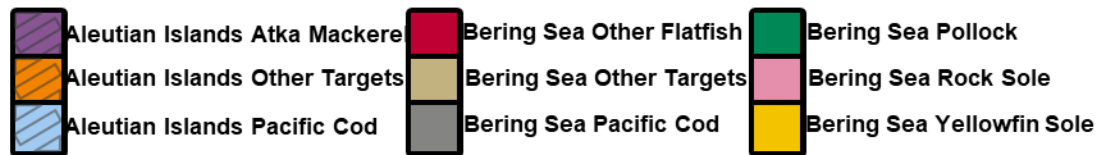
2021 BSAI Trawl Pacific Cod Catch

2021	TAC (mt)	Catch (mt)	%
AFA Catcher/Processor *	5,125	5,125	100%
Amendment 80 Catcher/Processors	14,979	12,473	83%
Catcher Vessel	21,650	21,187	98%
TOTAL	41,754	38,785	93%

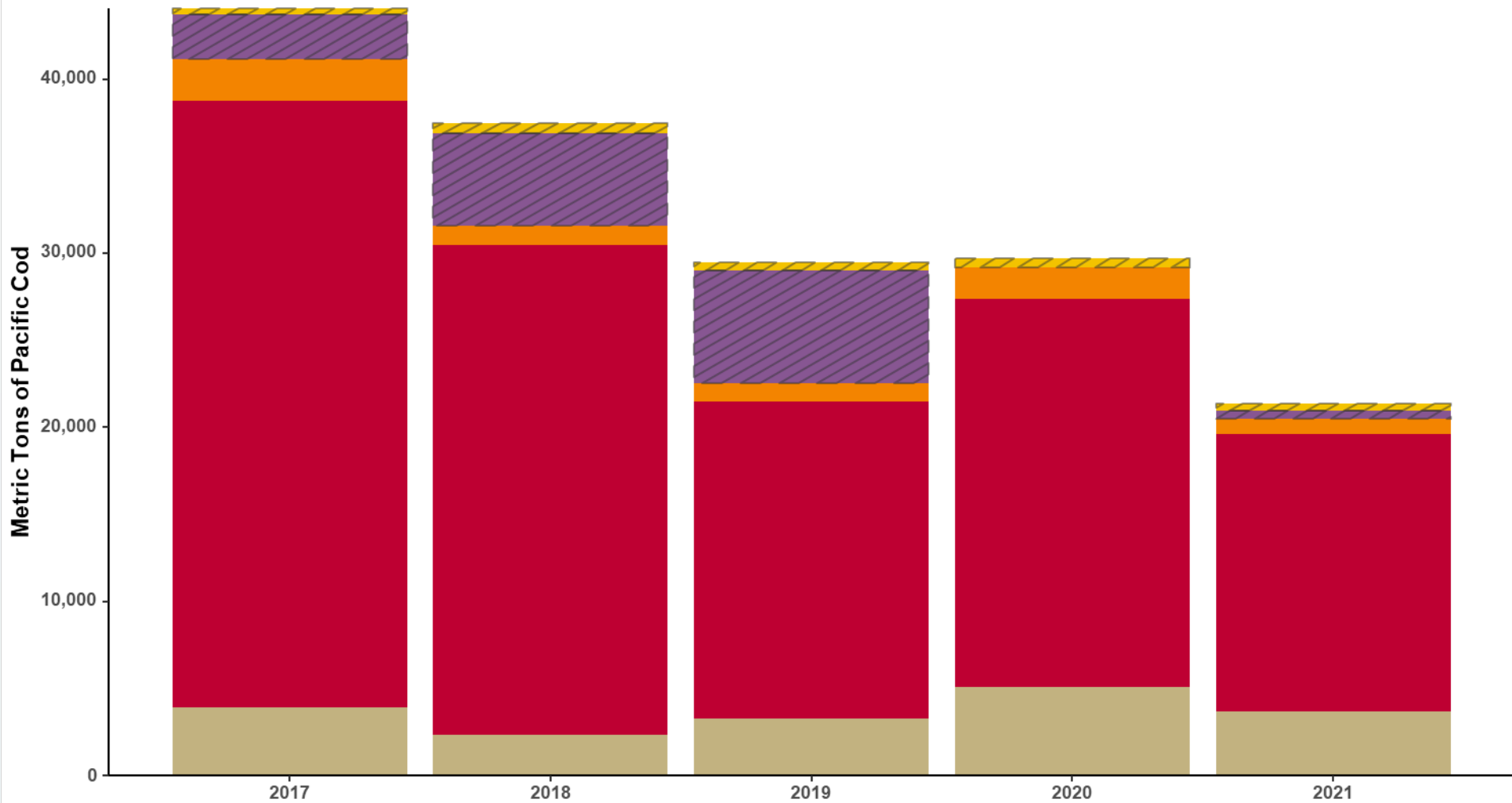
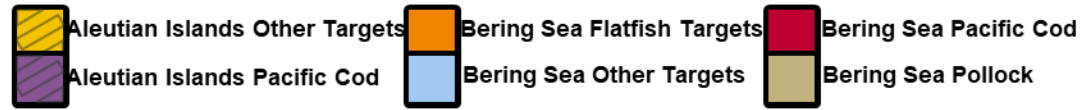
* AFA CP directed fishing closed January 20, 2021 and retention prohibited March 15, 2021 when 2,571 mt TAC reached. Includes 2,554 mt reallocation from trawl CVs to AFA CPs



2017-2021 BSAI Trawl Catcher/Processor Pacific Cod Catch by Target

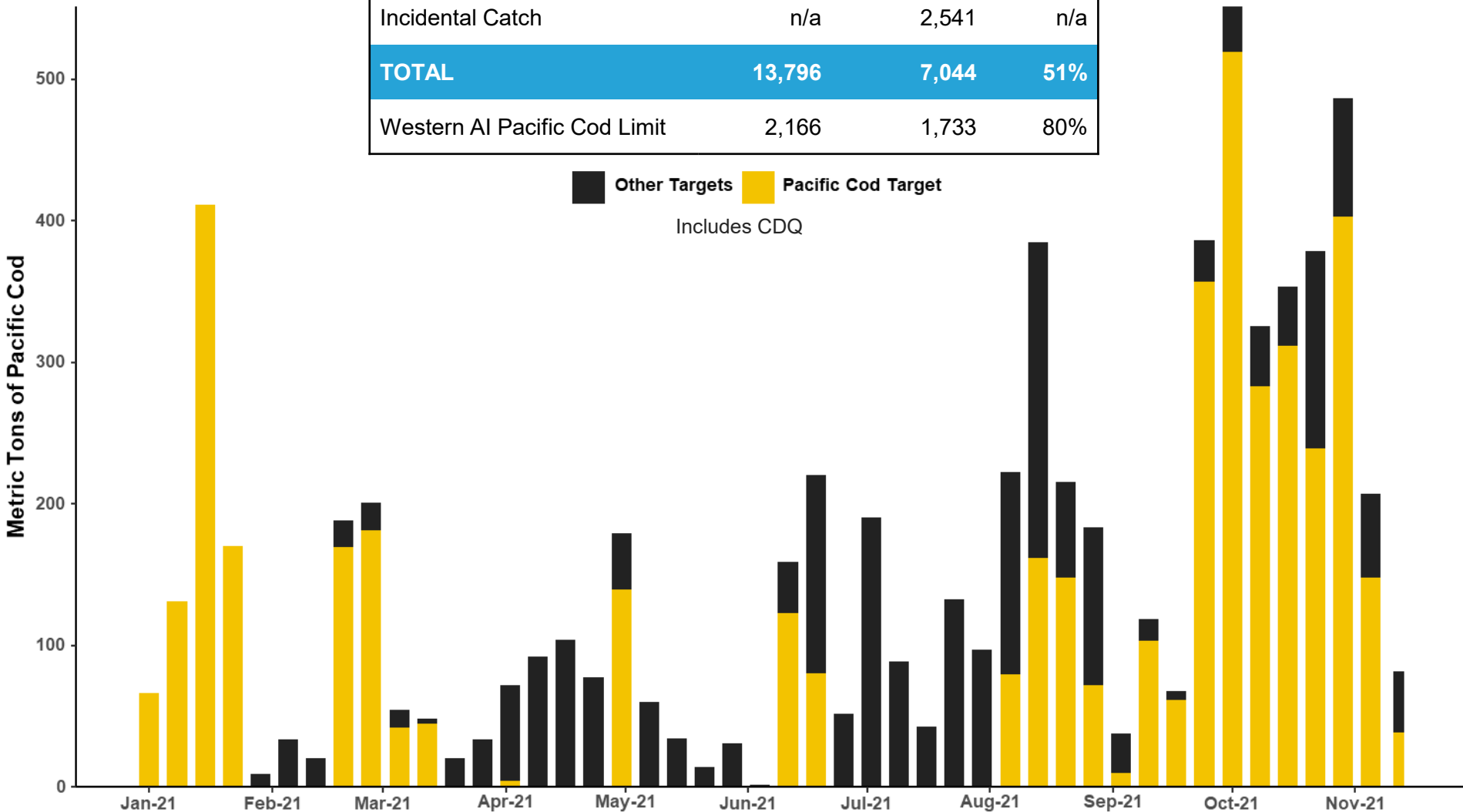


2017-2021 BSAI Trawl Catcher Vessel Pacific Cod Catch by Target

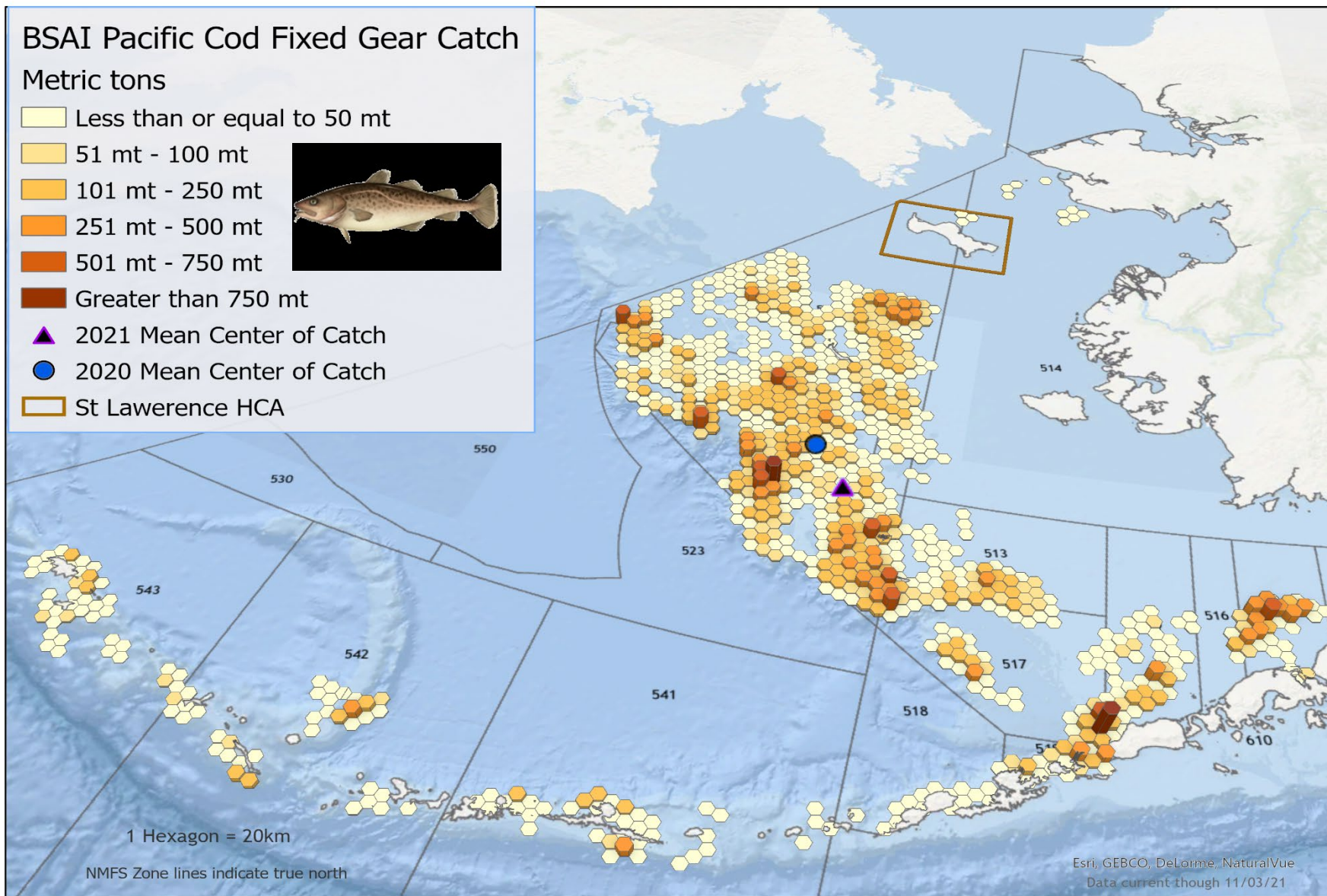


2021 Aleutian Islands Pacific Cod Catch

2021	TAC (mt)	Catch (mt)	%
Trawl Catcher Vessel	n/a	443	n/a
Fixed Gear	n/a	4,060	n/a
Incidental Catch	n/a	2,541	n/a
TOTAL	13,796	7,044	51%
Western AI Pacific Cod Limit	2,166	1,733	80%



2021 Pacific Cod Catch by Non-Trawl Gear

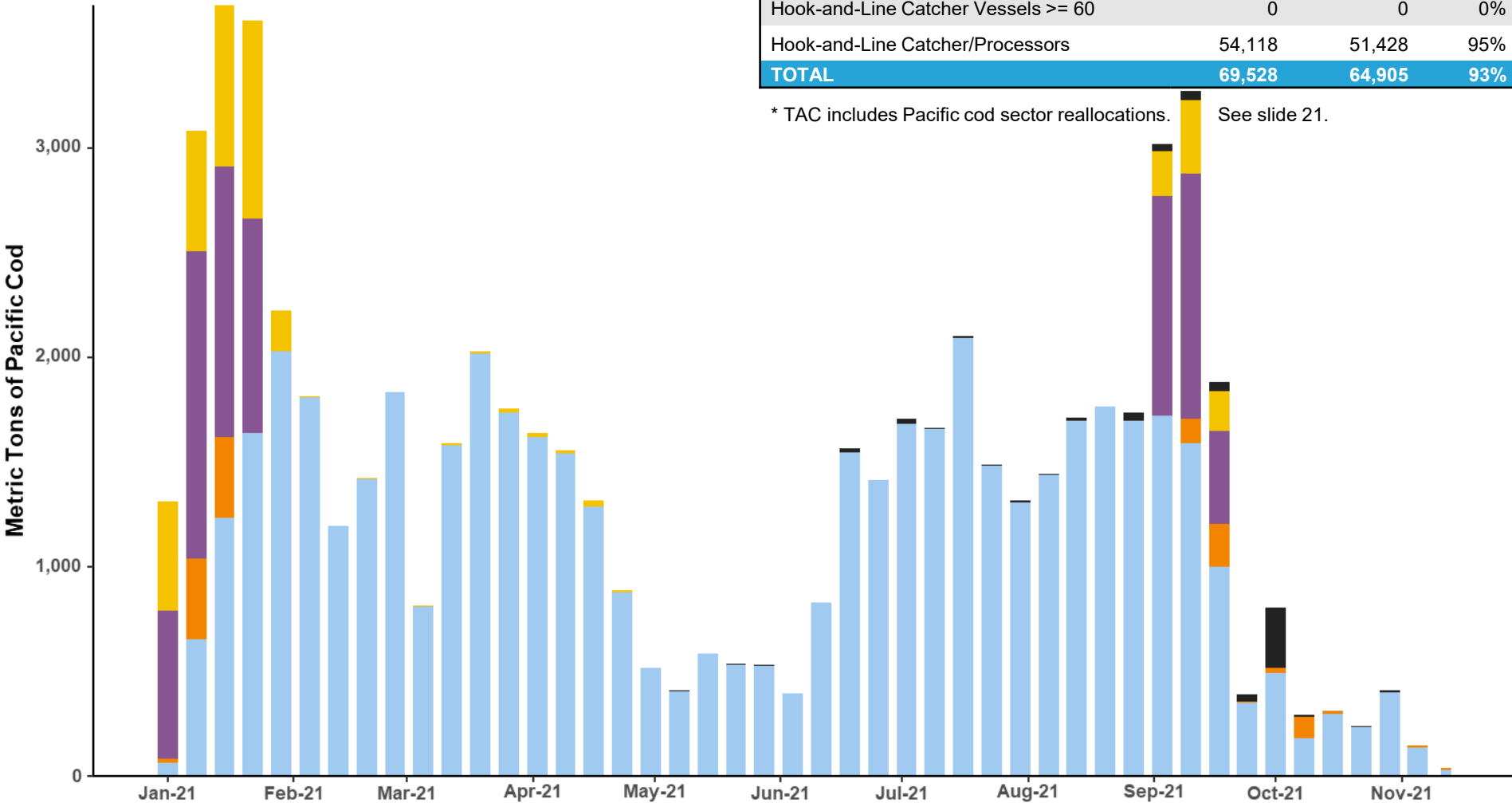


2021 BSAI Non-Trawl Pacific Cod Catch



2021	TAC (mt)	Catch (mt)	%
Hook-and-Line / Pot ICA	400	618	155%
Jig Gear	65	0	0%
Hook-and-Line / Pot Catcher Vessels < 60	3,944	4,444	89%
Pot Catcher Vessels >= 60	8,834	7,138	81%
Pot Catcher/Processors	2,167	1,277	59%
Hook-and-Line Catcher Vessels >= 60	0	0	0%
Hook-and-Line Catcher/Processors	54,118	51,428	95%
TOTAL	69,528	64,905	93%

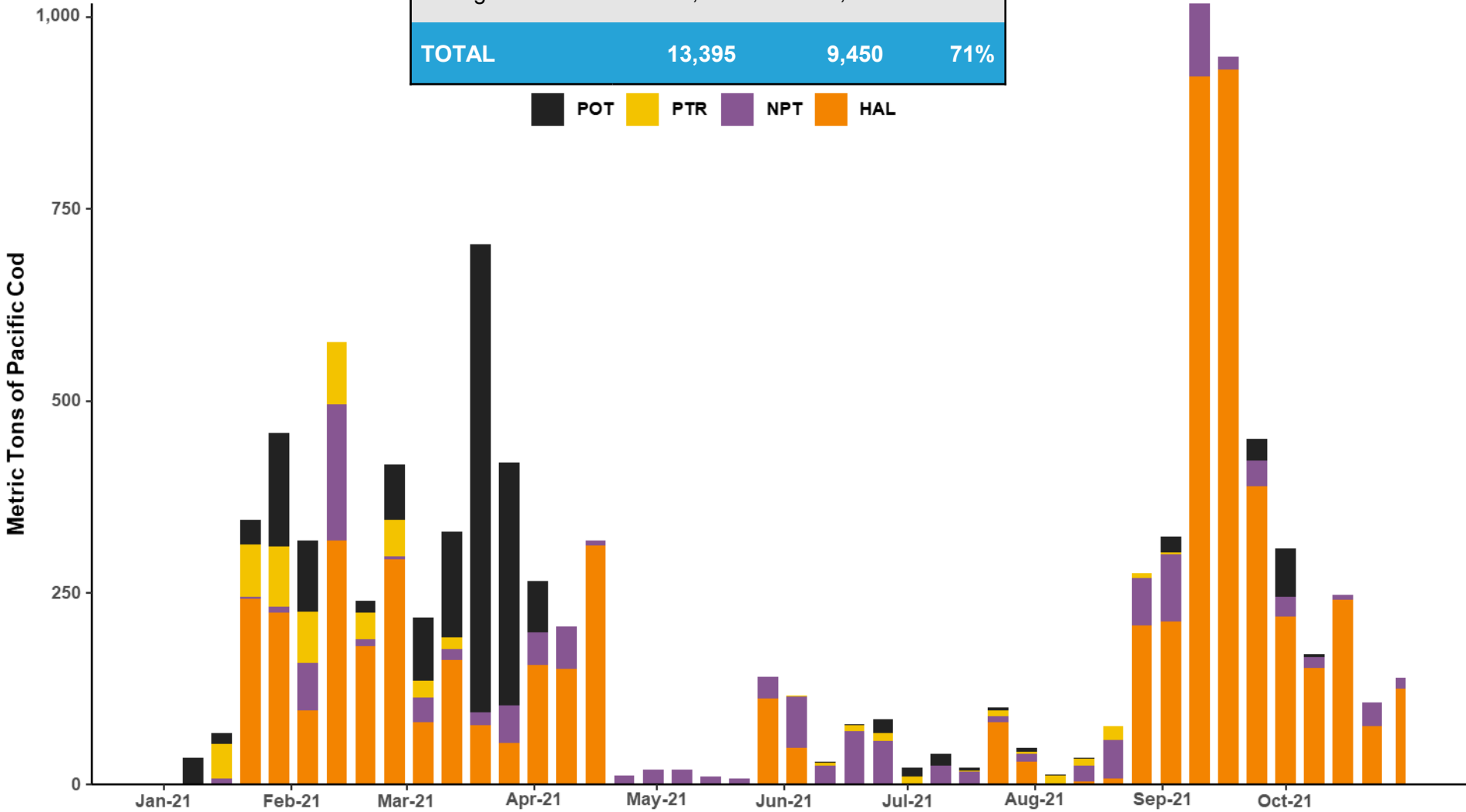
* TAC includes Pacific cod sector reallocations. See slide 21.



2021 CDQ Pacific Cod Catch

2021	TAC (mt)	Catch (mt)	%
Aleutian Islands	1,476	902	61%
Bering Sea	11,919	8,548	72%
TOTAL	13,395	9,450	71%

POT
 PTR
 NPT
 HAL



2021 Pacific Cod Apportionments and Catch in the BSAI

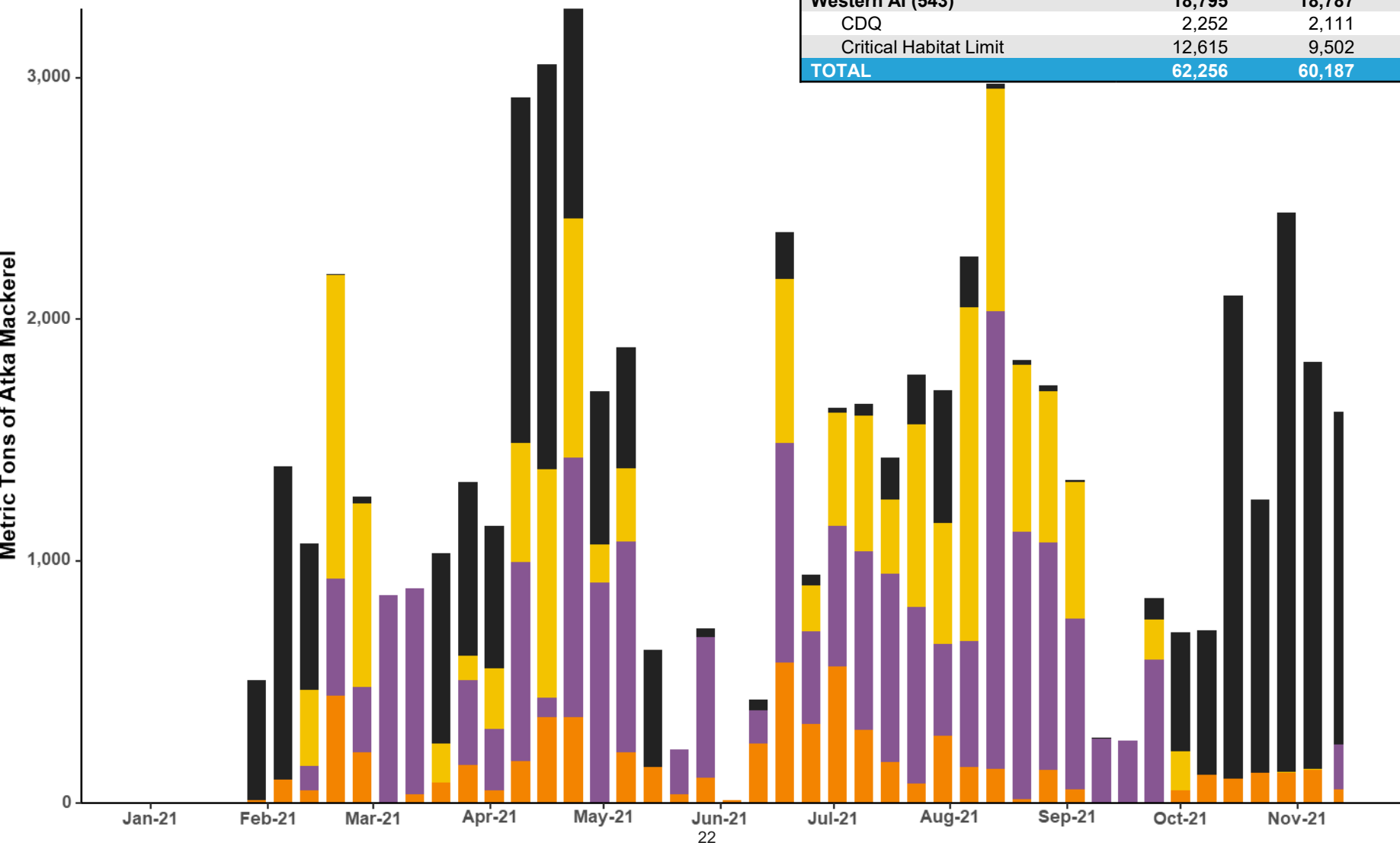
Fishery Component		TAC (mt)	Reallocations	Revised TAC	Catch (mt)	%
Hook-and-Line Gear	Catcher/Processors	54,118	0	54,118	51,428	95%
	Catcher Vessels >= 60 Feet	222	-222	0	0	0%
Pot Gear	Catcher/Processor	1,667	+500	2,167	1,277	77%
	Catcher Vessels >= 60 Feet	9,334	-500	8,834	7,138	76%
Hook-and-Line and Pot Gear	Catcher Vessels < 60 Feet	2,222	+2,222	4,444	3,908	99%
Trawl Gear	AFA Catcher/Processors	2,571	+2,554	5,125	5,125	199%
	A80 Catcher/processors	14,979	0	14,979	12,473	83%
	Catcher Vessels	24,704	-3,054	21,650	21,187	86%
Jig Gear		1,565	-1,500	65	0	0%
CDQ	Aleutian Islands	1,476	0	1,476	902	61%
	Bering Sea	11,919	0	11,919	8,548	72%
Hook-and-Line/Pot Gear ICA		400	0	400	618	155%
TOTAL		125,177	0	125,177	112,604	90%



2021 Atka Mackerel Catch by Week and Area

Bering Sea and Eastern AI
 Central AI
 Western AI
 CDQ

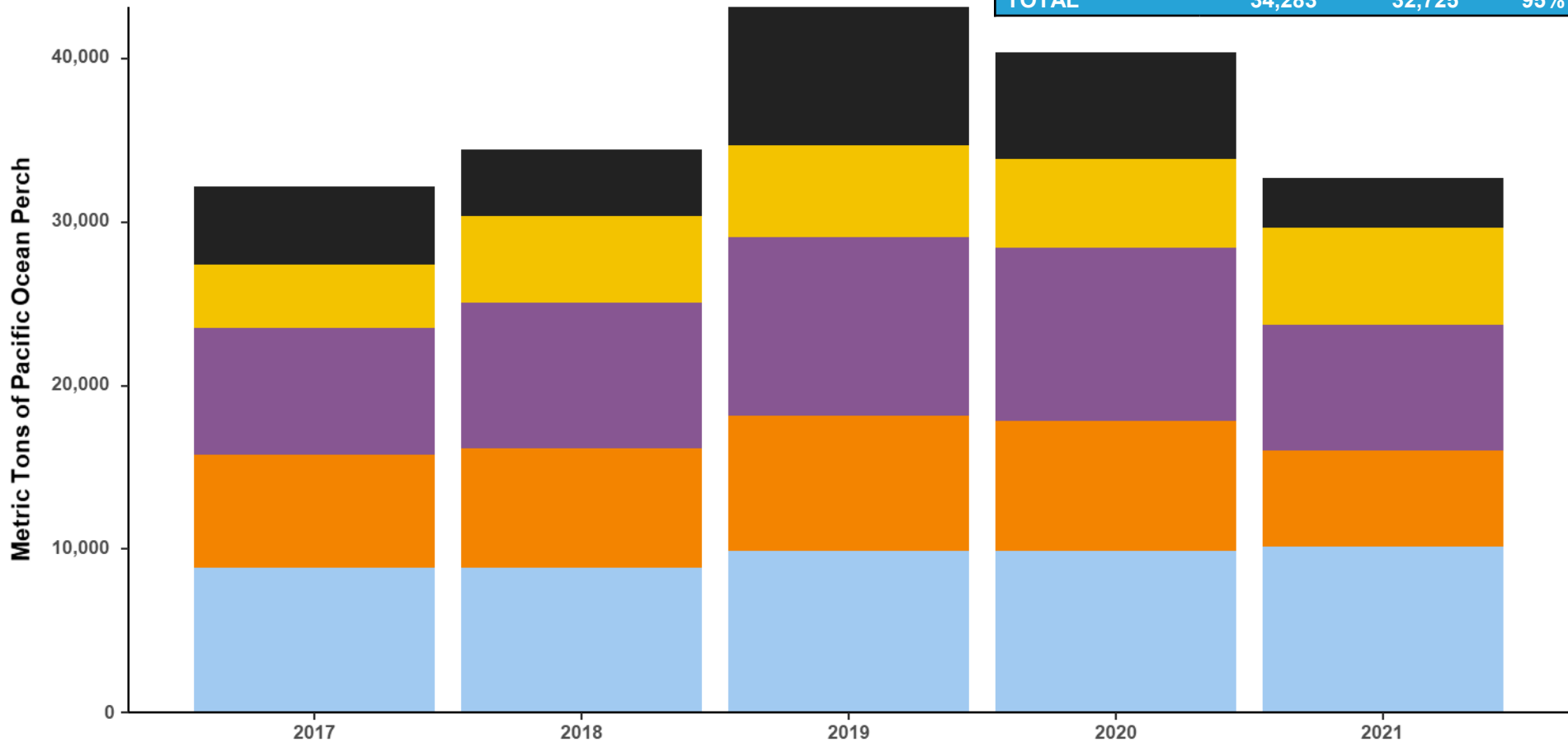
2021	TAC (mt)	Catch (mt)	%
Bering Sea and Eastern AI (541)	23,003	21,394	93%
CDQ	2,756	2,600	94%
Central AI (542)	13,797	13,732	100%
CDQ	1,653	1,563	95%
Critical Habitat Limit	9,226	7,034	76%
Western AI (543)	18,795	18,787	100%
CDQ	2,252	2,111	94%
Critical Habitat Limit	12,615	9,502	75%
TOTAL	62,256	60,187	97%



2017-2021 Pacific Ocean Perch Catch by Area



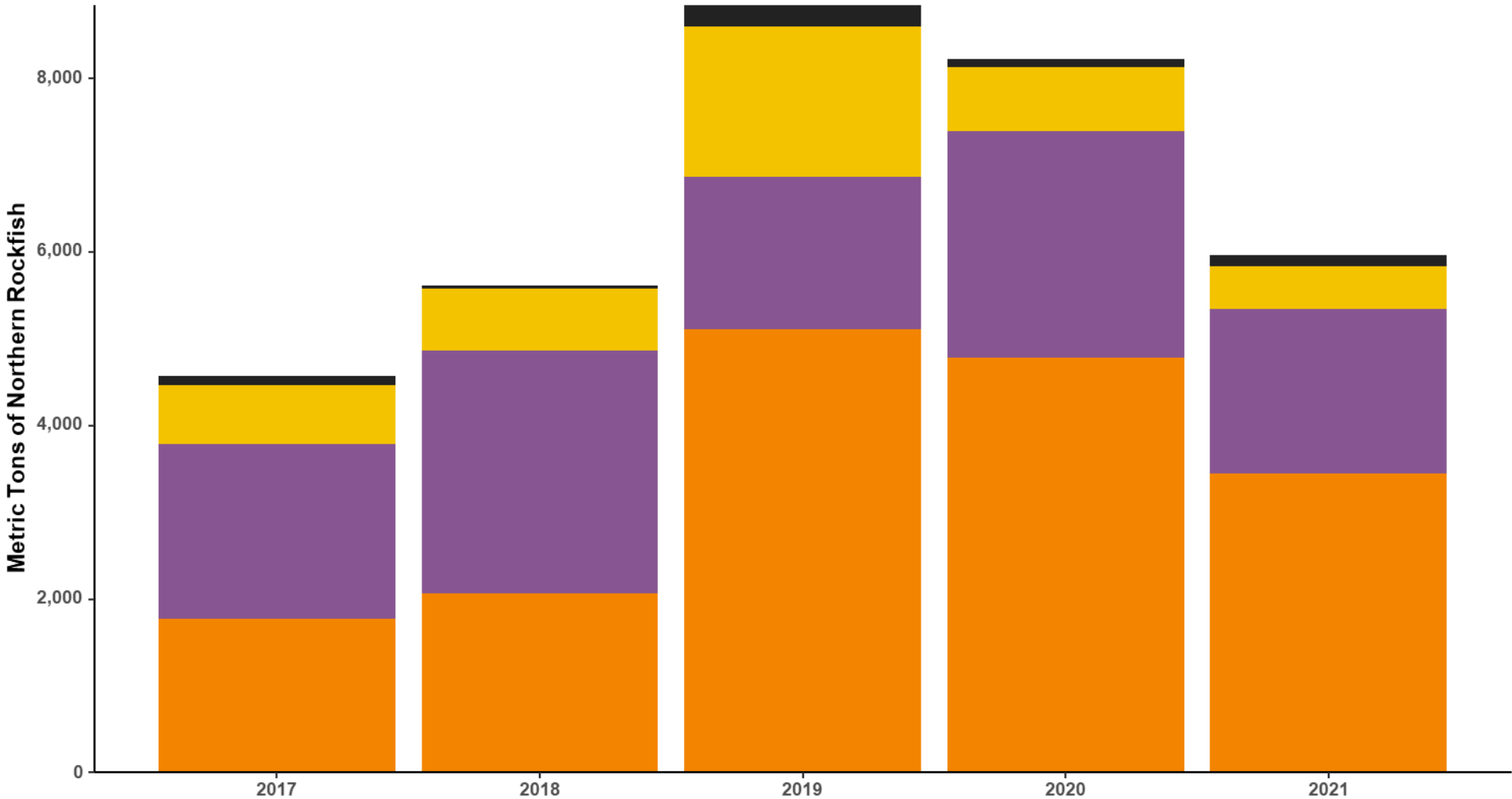
2021	TAC (mt)	Catch (mt)	%
Bering Sea	10,782	9,021	84%
Eastern AI (541)	7,518	6,872	91%
CDQ	901	817	91%
Central AI (542)	5,535	5,297	96%
CDQ	663	587	89%
Western AI (543)	9,377	9,163	98%
CDQ	1,124	968	86%
TOTAL	34,283	32,725	95%



2017-2021 Northern Rockfish Catch by Area

2021	ABC (mt)	TAC (mt)	Catch (mt)	%
Northern Rockfish	15,557	11,050	6,076	55%

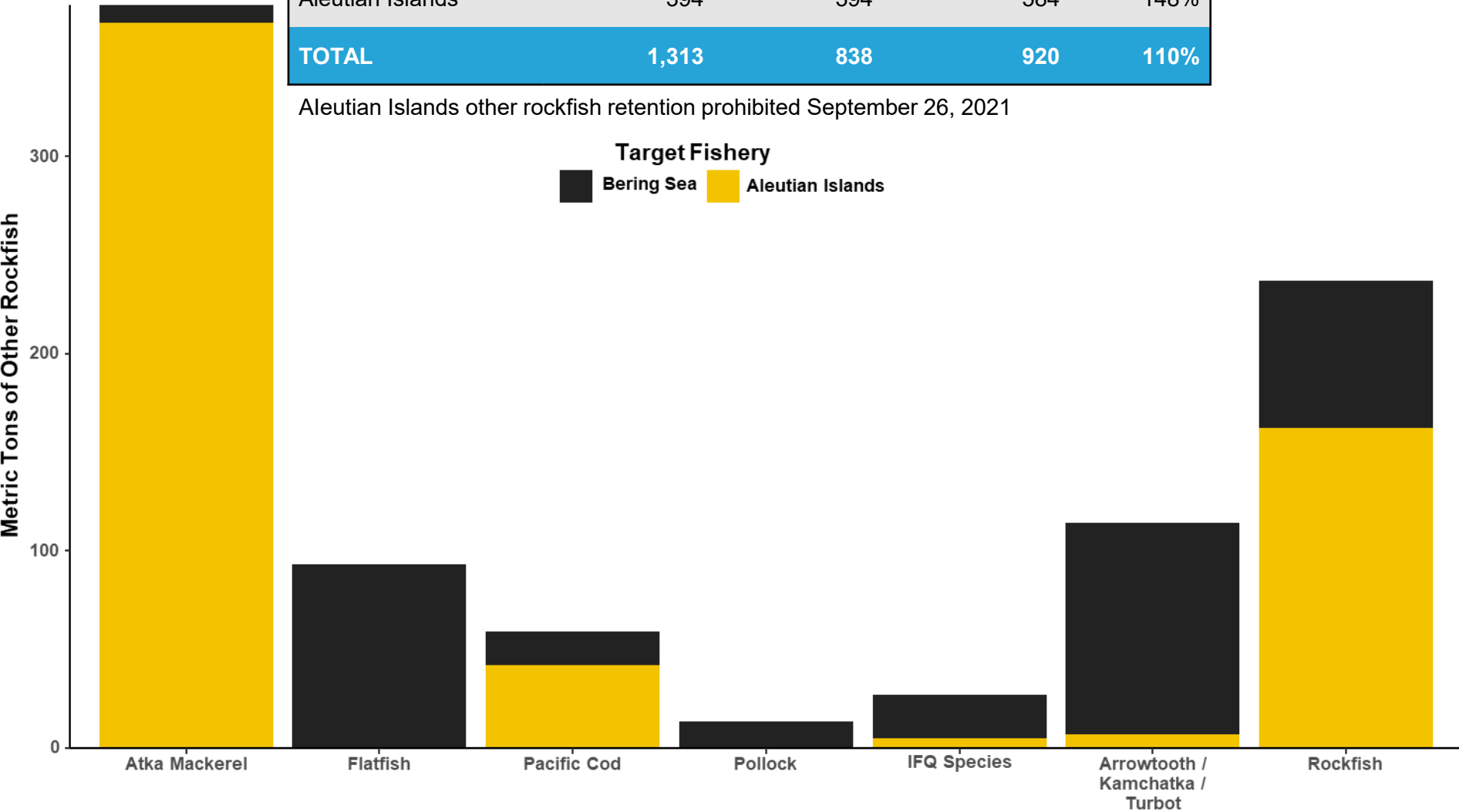
Bering Sea
 541
 542
 543



2021 BSAI Other Rockfish Catch

2021	ABC (mt)	TAC (mt)	Catch (mt)	%
Bering Sea	919	444	336	76%
Aleutian Islands	394	394	584	148%
TOTAL	1,313	838	920	110%

Aleutian Islands other rockfish retention prohibited September 26, 2021



2021 BSAI Blackspotted / Rougheye Rockfish Catch

2021	ABC (mt)	TAC (mt)	Catch (mt)	%
BS/EAI Rougheye Rockfish	313	266	213	80%
CAI/WAI Rougheye Rockfish	169	169	303	179%
TOTAL	482	435	516	119%

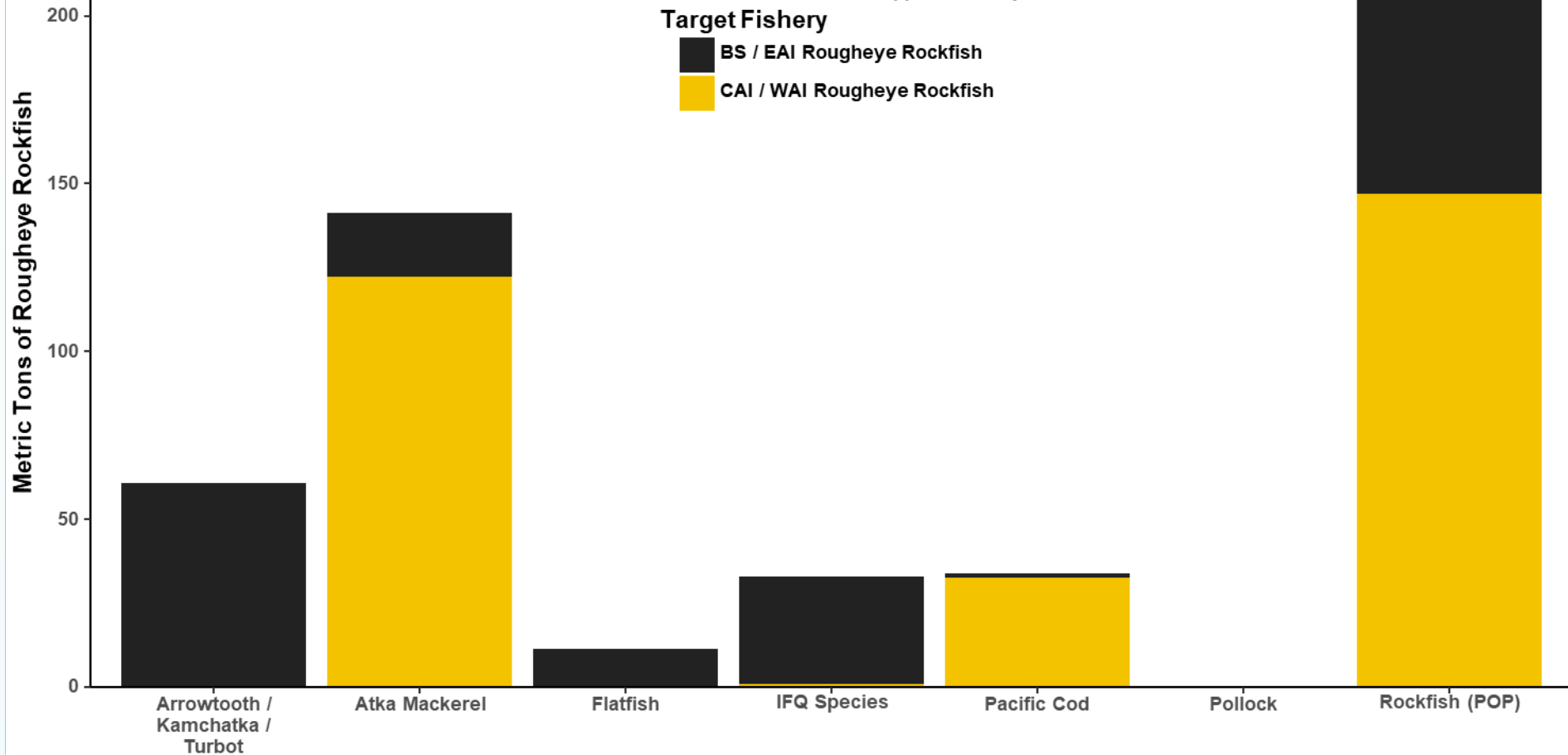
2021	Rougheye Rockfish Catch (mt)
Bering Sea	125
Eastern AI (541)	88
Central AI (542)	185
Western AI (543)	118

CAI/WAI blackspotted/rougheye rockfish retention prohibited August 2, 2021

The 2021 MSSC amount is 31 mt for the Western AI and 138 mt for the Central Aleutian Islands.

Target Fishery

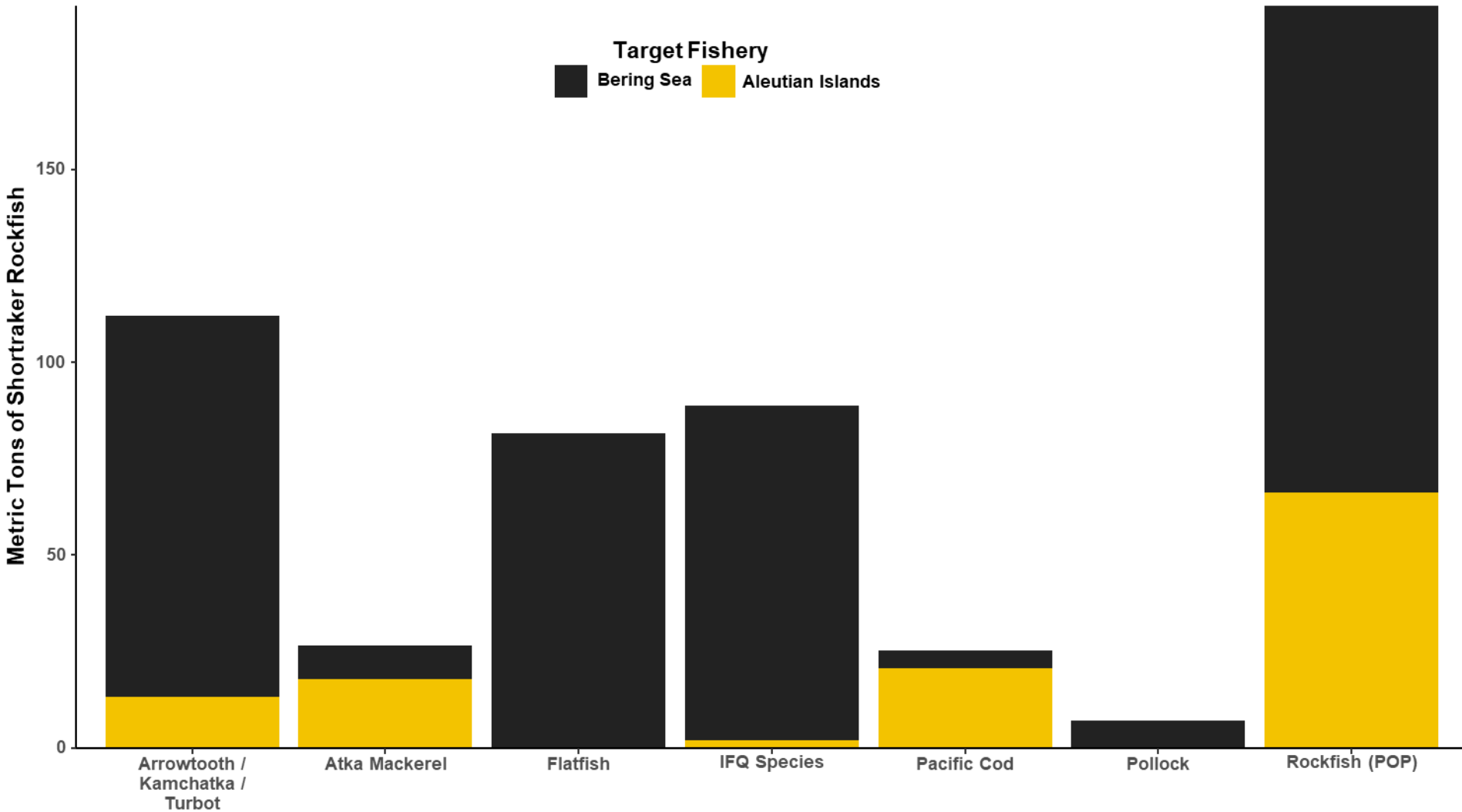
- BS / EAI Rougheye Rockfish
- CAI / WAI Rougheye Rockfish



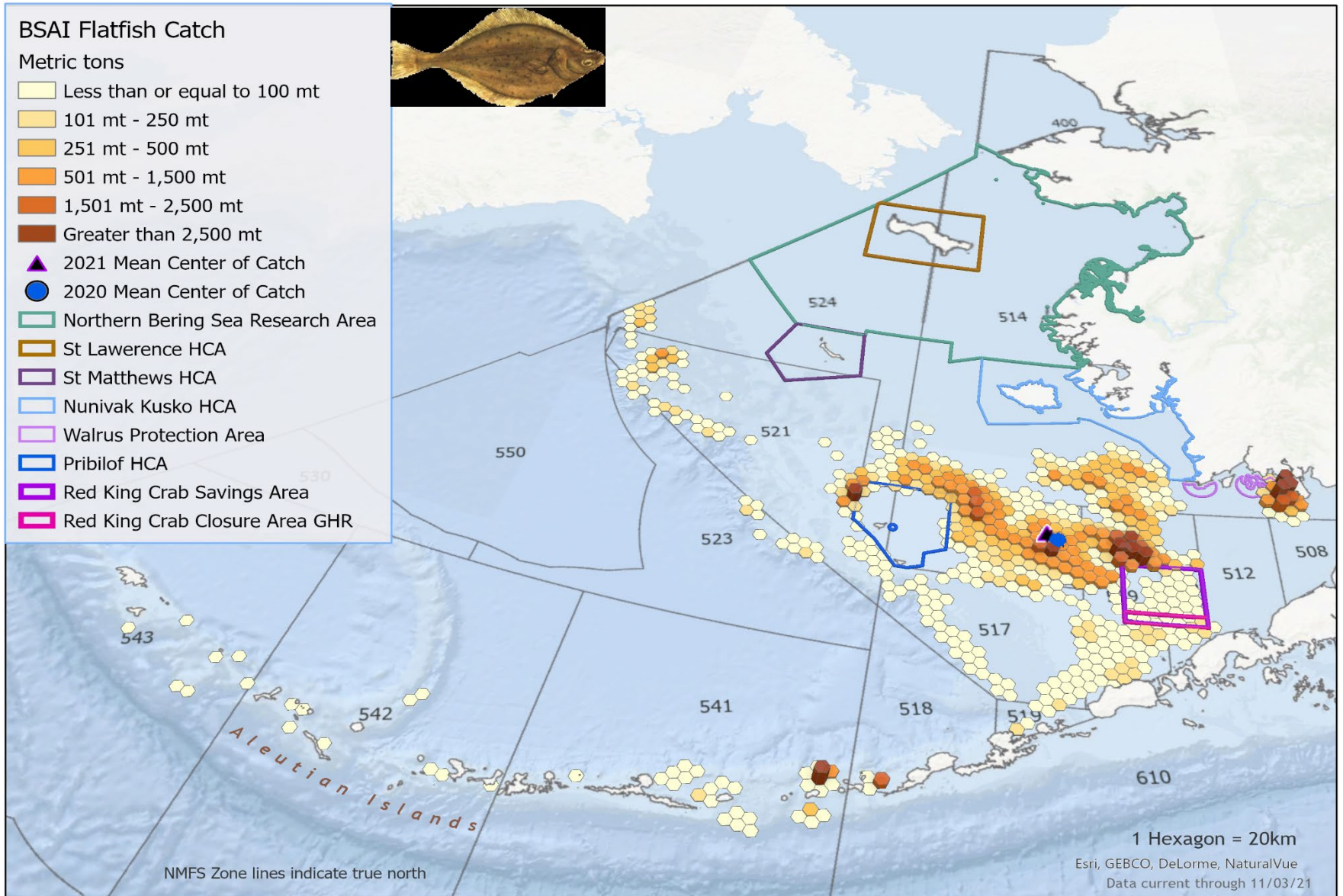
2021 BSAI Shortraker Rockfish Catch

2021	ABC (mt)	TAC (mt)	Catch (mt)	%
BSAI Shortraker Rockfish	541	541	544	101%

Shortraker rockfish retention prohibited November 16, 2021



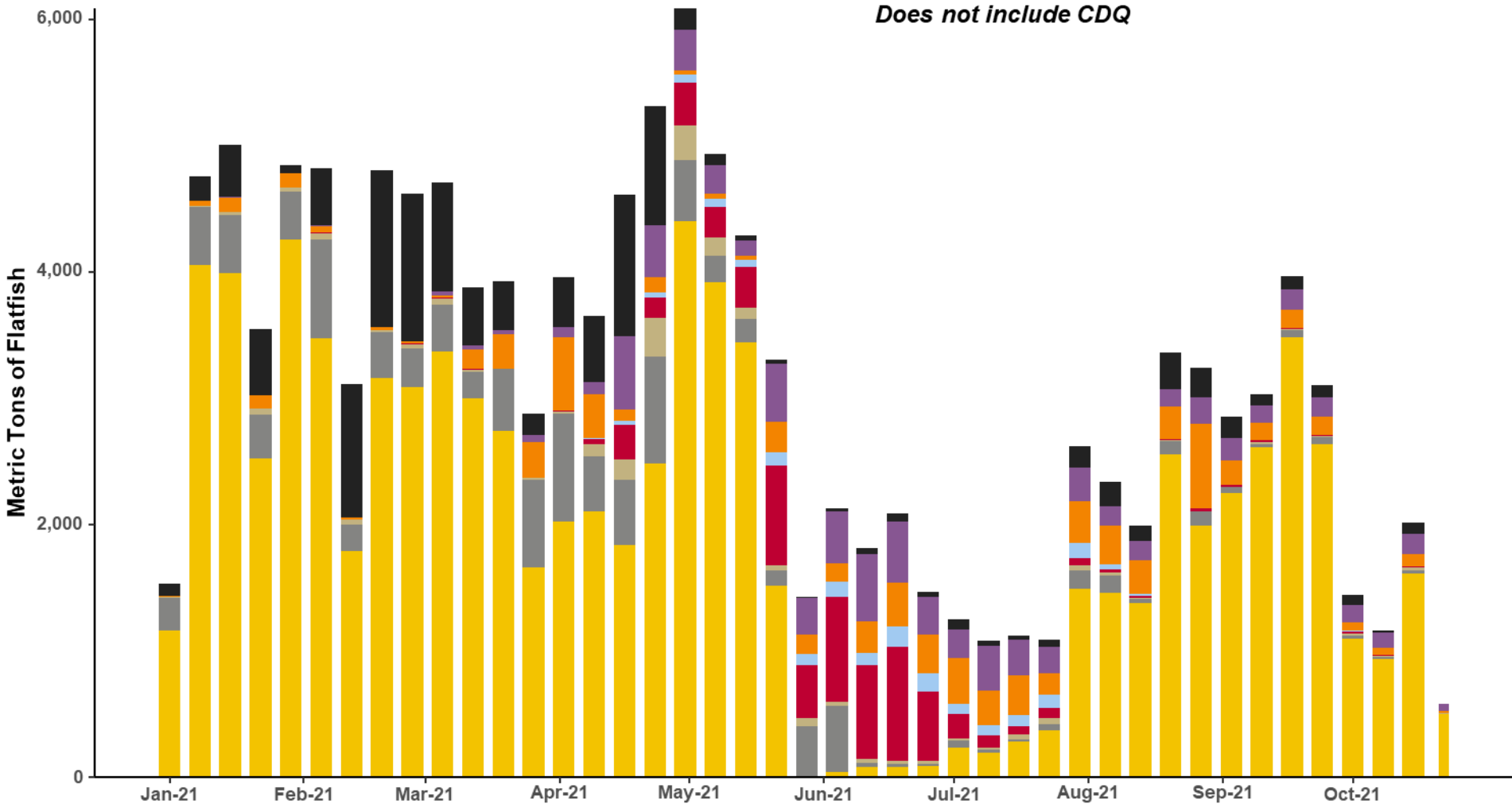
2021 Flatfish Catch



2021 BSAI Flatfish Catch by Amendment 80 Catcher/Processors



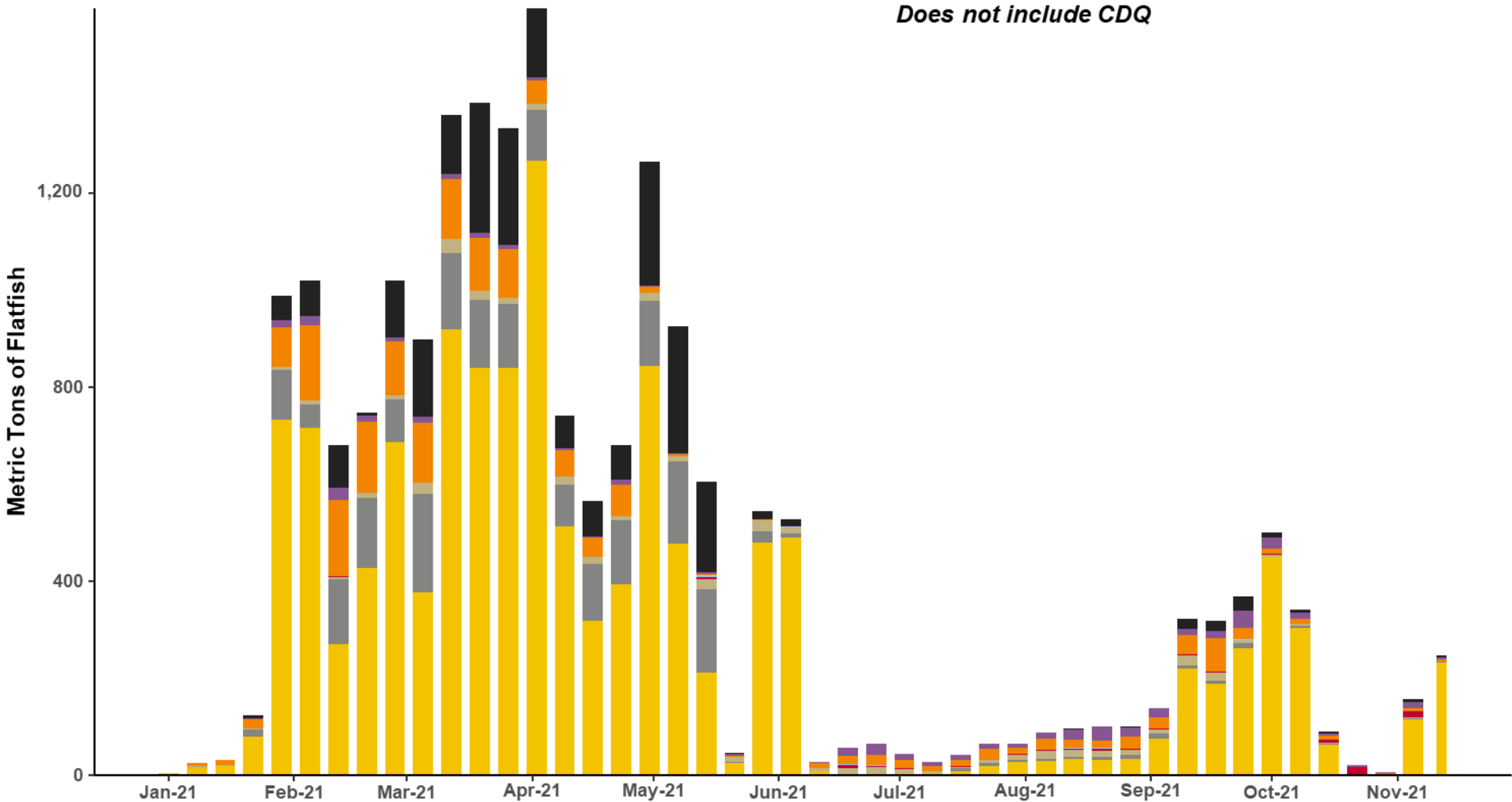
Does not include CDQ



2021 BSAI Flatfish Catch by Non-Amendment 80 Vessels



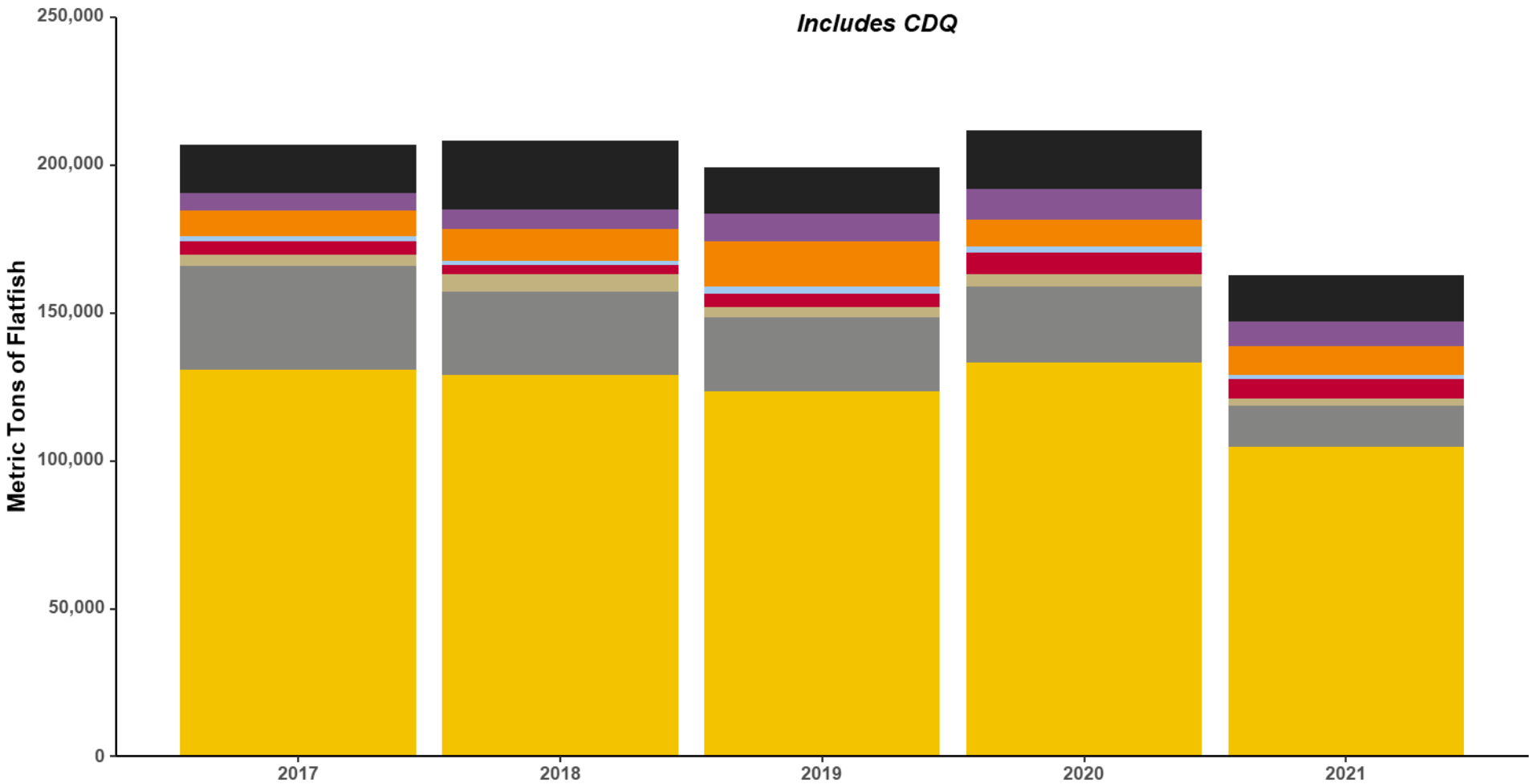
Does not include CDQ



2017-2021 BSAI Trawl Flatfish Catch by Species



Includes CDQ



2017-2021 BSAI Greenland Turbot Catch

2021	TAC (mt)	Trawl (mt)	HAL (mt)	Catch (mt)	%
Aleutian Islands	765	455	1	457	60%
Bering Sea	4,356	1,116	11	1,128	26%
Bering Sea CDQ	548	2	0	2	0%

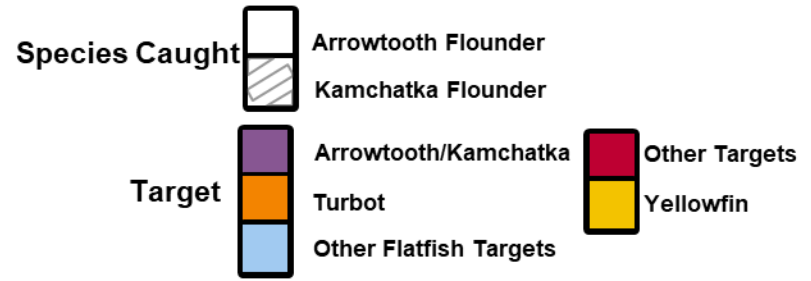
Directed fishing is closed in the Aleutian Islands.



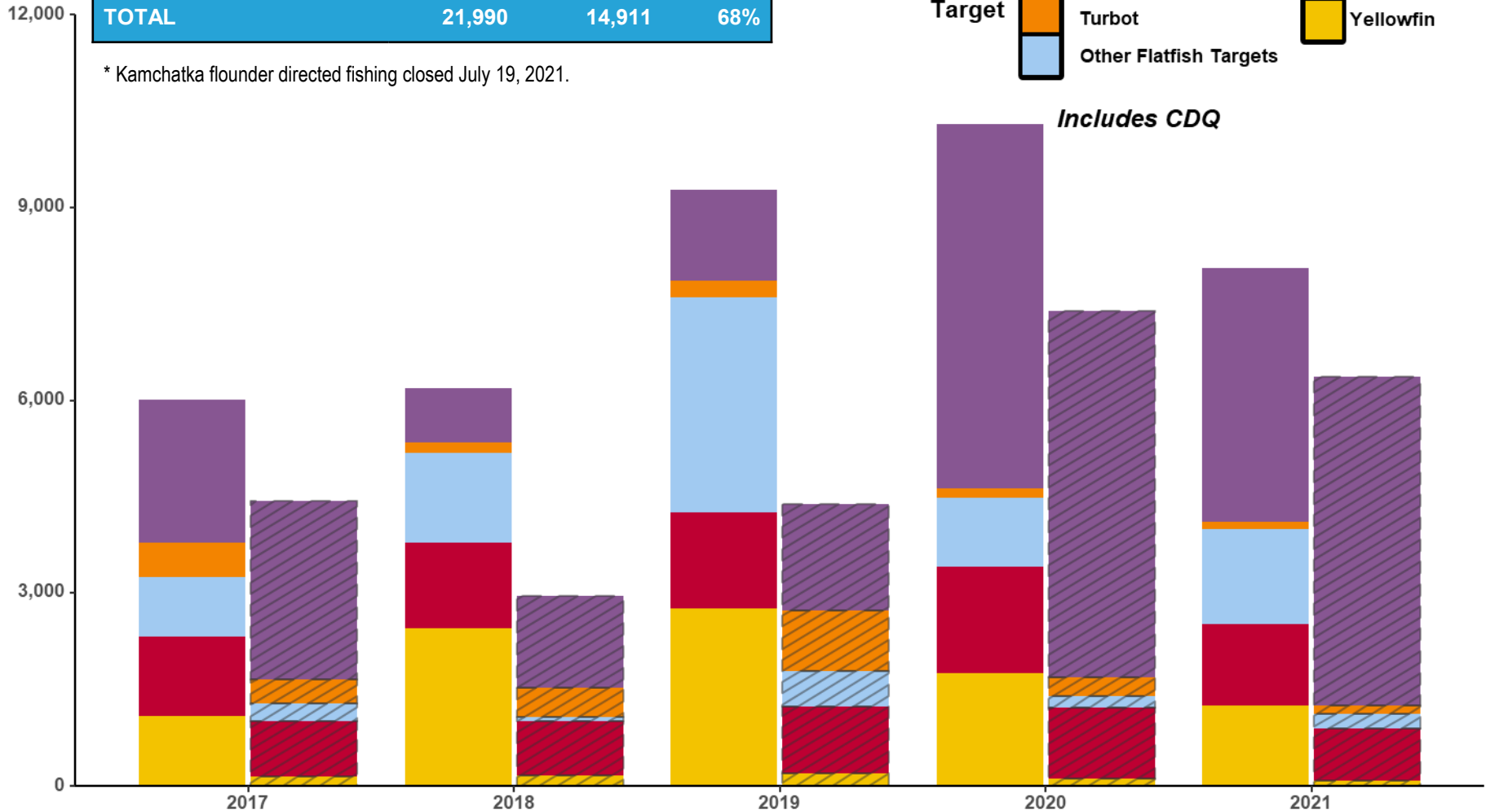
2017-2021 BSAI Arrowtooth / Kamchatka Flounder Catch

2021	TAC (mt)	Catch (mt)	%
Arrowtooth Flounder	12,750	8,071	63%
Arrowtooth Flounder CDQ	1,605	277	17%
Kamchatka Flounder	7,635	6,563	86%
TOTAL	21,990	14,911	68%

* Kamchatka flounder directed fishing closed July 19, 2021.



Metric Tons of Arrowtooth / Kamchatka Flounder



2021 Flatfish Catch in the BSAI

2021	ABC (mt)	Sector	TAC (mt)	Catch (mt)	%
Arrowtooth flounder	77,349		12,750	8,071	63%
		CDQ	1,605	277	17%
Flathead sole	62,567		22,325	9,474	42%
		CDQ	2,675	448	17%
Rock sole	140,306		48,669	13,134	27%
		CDQ	5,832	768	13%
Yellowfin sole	313,477		178,600	98,544	55%
		CDQ	21,400	6,960	33%
Kamchatka flounder Includes CDQ ***	8,982		7,635	6,563	86%
Alaska plaice Includes CDQ ***	31,657		20,825	15,662	75%
Other flatfish Includes CDQ ***	17,189		5,525	2,518	46%

* TAC increased from the nonspecified reserves. No flatfish increases in 2021.

** TAC changed from Flatfish Exchanges. No Flatfish Exchanges in 2021.

*** 'Includes CDQ' means there is no CDQ allocation for that species.



2021 Changes in Flatfish TAC from Flatfish Exchanges

Group	Date	Flathead Sole		Rock Sole		Yellowfin Sole	
		TAC	Exchange	TAC	Exchange	TAC	Exchange
Initial	01-Jan	25,000		54,501		200,000	
Total Change		No flatfish exchanges in 2021		0	0		0

APICDA - Aleutian Pribilof Island Community Development Association

BBEDC - Bristol Bay Economic Development Corporation

CBSFA - Central Bering Sea Fishermen's Association

CVRF - Coastal Villages Region Fund

NSEDC - Norton Sound Economic Development Corporation

YDFDA - Yukon Delta Fisheries Development Association

Number of Amendment 80 Catcher/Processors		Number of Motherships (non-pollock)		Number of CVs delivering to Motherships (non-pollock)	
2020	19	2020	10	2020	9
2021	19	2021	9	2021	13

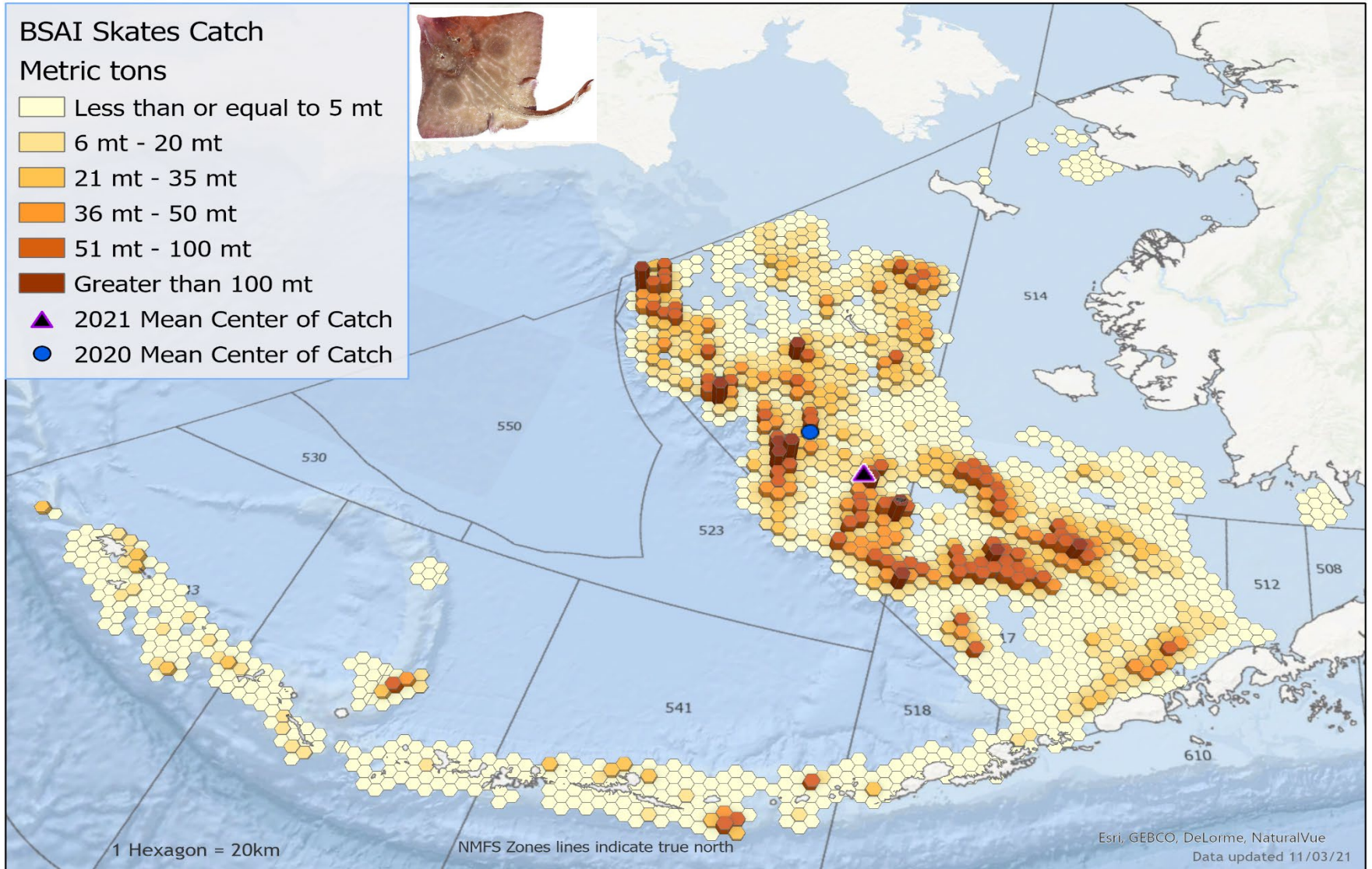
2020 - 2021 CDQ Inter-Group Transfers

Species	Number of 2020 Transfers	Weight	Count	Species	Number of 2021 Transfers	Weight	Count
Arrowtooth Flounder	4	163	0	Arrowtooth Flounder	2	250	0
Atka Mackerel	8	575	0	Atka Mackerel	4	536	0
Flathead Sole	2	451	0	Flathead Sole	1	214	0
Greenland Turbot	1	42	0	Greenland Turbot	1	35	0
Pacific Cod	12	708	0	Pacific Cod	4	498	0
Pacific Ocean Perch	7	328	0	Pacific Ocean Perch	3	205	0
Rock Sole	4	942	0	Rock Sole	2	745	0
Sablefish	9	27	0	Sablefish	2	13	0
Yellowfin Sole	5	5,054	0	Yellowfin Sole	2	3,395	0
Crab PSC Limits	8	0	136,455	Crab PSC Limits	8	0	112,505
Halibut PSC Limit	4	39	0	Halibut PSC Limit	2	25	0
TOTAL	64	8,328	136,455	TOTAL	31	5,916	112,505

2021 Skates Catch

2021	ABC (mt)	TAC (mt)	Catch (mt)	%
BSAI Skates	41,257	20,000	18,792	94%

Skates TAC increased by 4,700 mt from the nonspecified reserves.



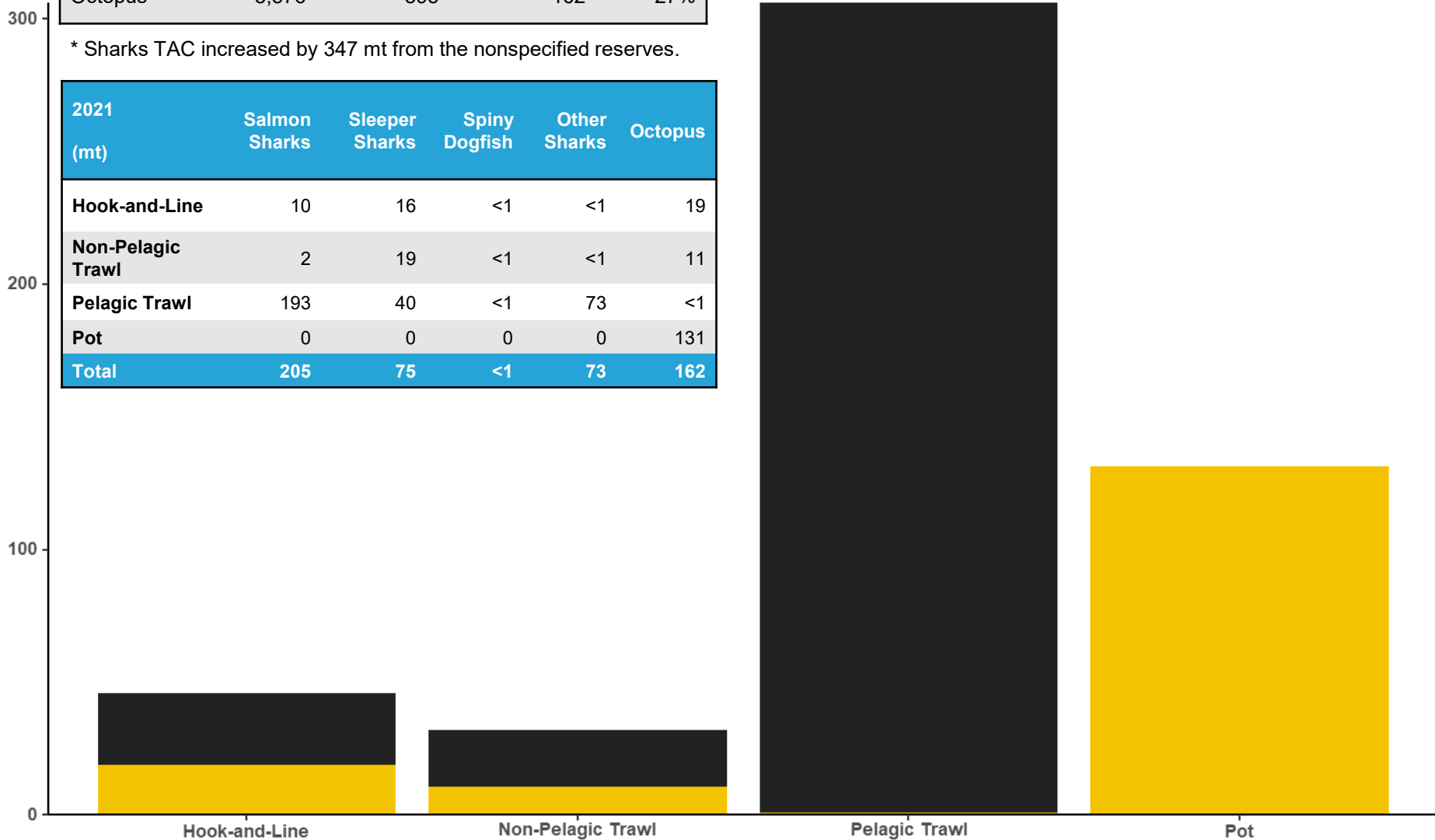
2021 BSAI Sharks and Octopus

2021	ABC (mt)	TAC (mt)	Catch (mt)	%
Sharks *	517	517	354	68%
Octopus	3,576	595	162	27%

* Sharks TAC increased by 347 mt from the nonspecified reserves.

2021 (mt)	Salmon Sharks	Sleeper Sharks	Spiny Dogfish	Other Sharks	Octopus
Hook-and-Line	10	16	<1	<1	19
Non-Pelagic Trawl	2	19	<1	<1	11
Pelagic Trawl	193	40	<1	73	<1
Pot	0	0	0	0	131
Total	205	75	<1	73	162

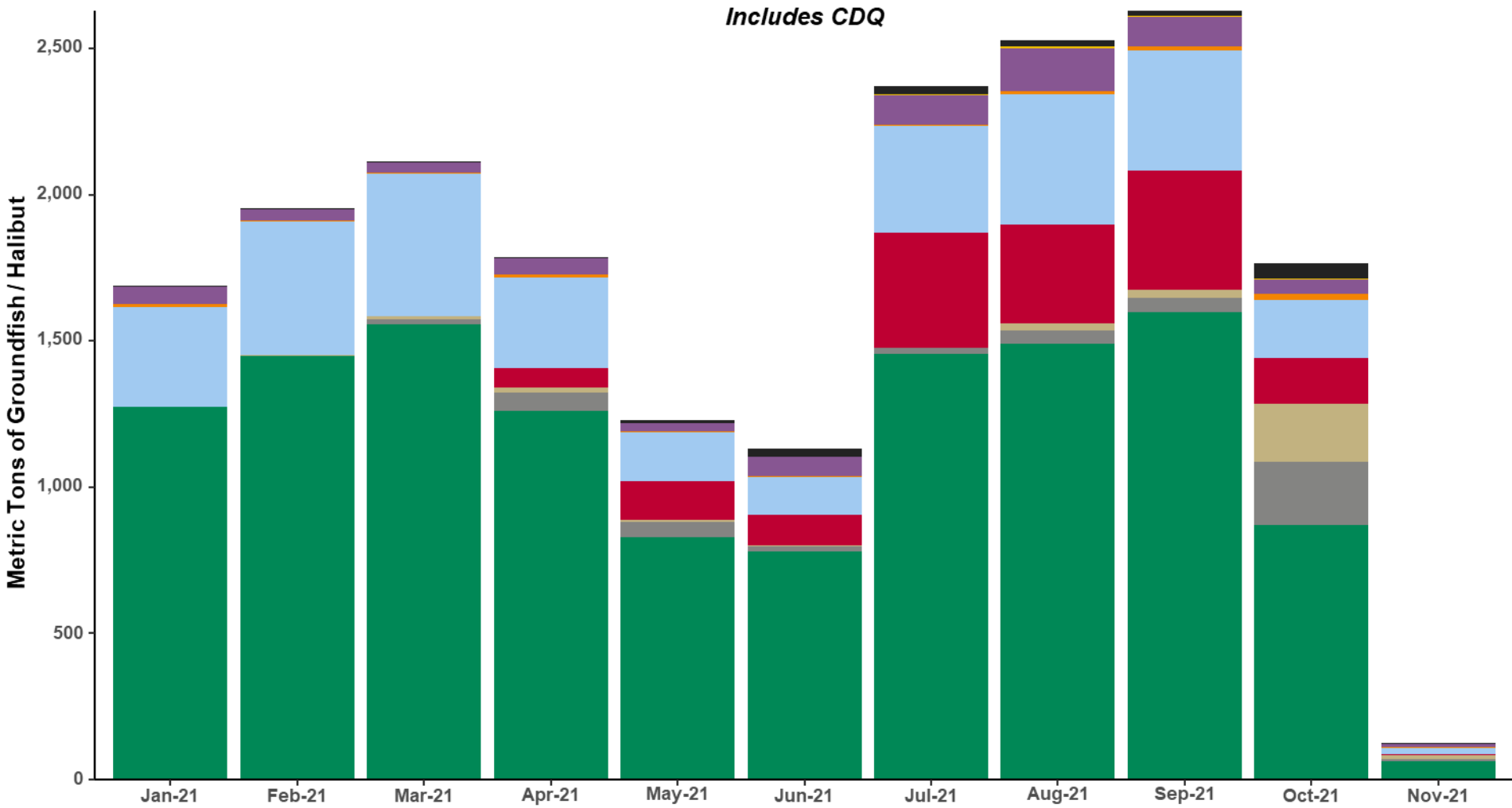
Sharks Octopus *Includes CDQ*



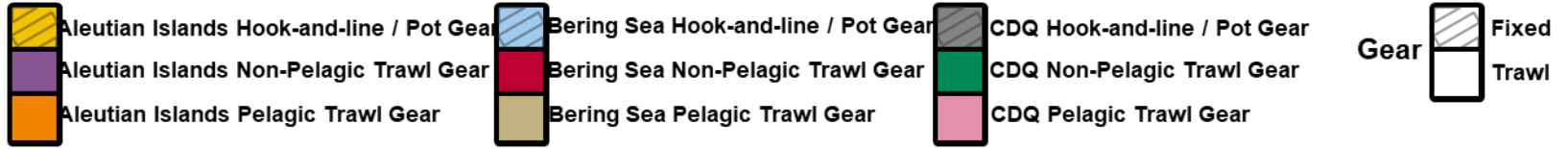
2021 BSAI Hook-and-Line Not Including Pacific Cod Catch



Includes CDQ



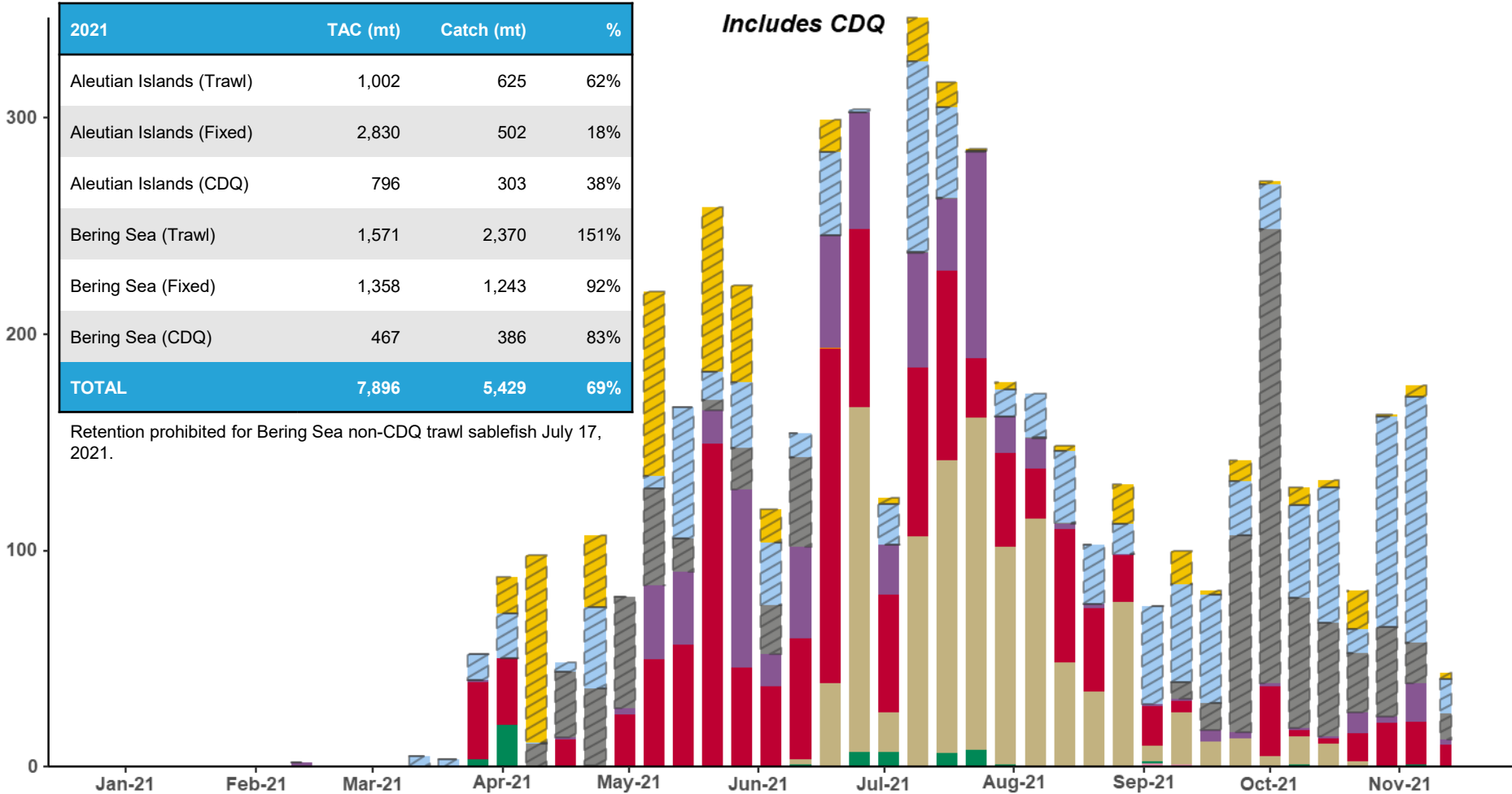
2021 BSAI Sablefish Catch



2021	TAC (mt)	Catch (mt)	%
Aleutian Islands (Trawl)	1,002	625	62%
Aleutian Islands (Fixed)	2,830	502	18%
Aleutian Islands (CDQ)	796	303	38%
Bering Sea (Trawl)	1,571	2,370	151%
Bering Sea (Fixed)	1,358	1,243	92%
Bering Sea (CDQ)	467	386	83%
TOTAL	7,896	5,429	69%

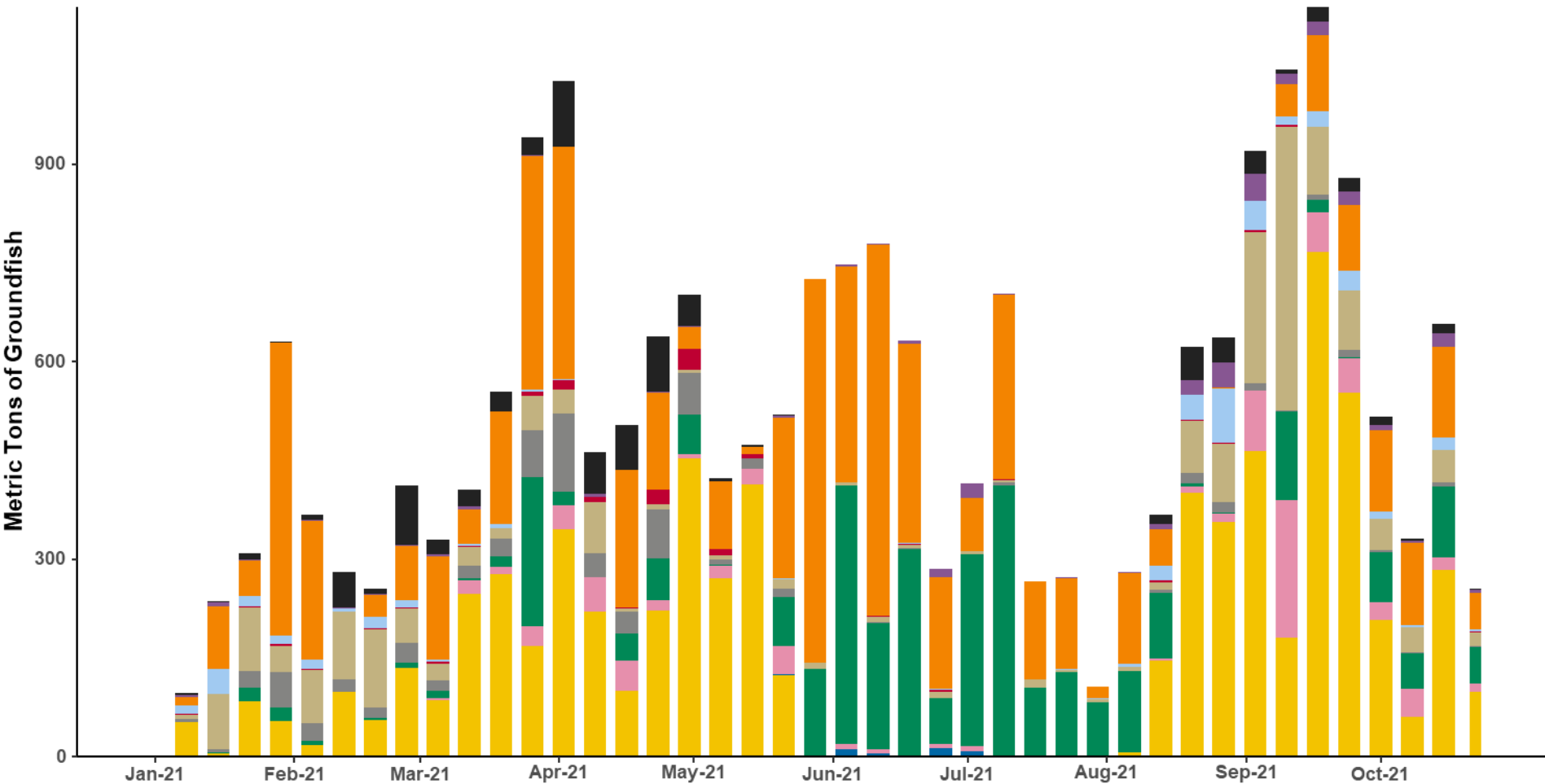
Includes CDQ

Metric Tons of Sablefish



Retention prohibited for Bering Sea non-CDQ trawl sablefish July 17, 2021.

2021 CDQ Not Including Pollock / Pacific Cod Catch by Species



2021 Non-specified Reserve Releases

Species	Initial TAC (mt)	Reallocations	Revised TAC	Catch (mt)	%
AI Other Rockfish	335	59	394	584	148%
BS POP	9,165	1,617	10,782	9,021	84%
BS Non-CDQ Trawl Sablefish	1,443	128	1,571	2,370	151%
BSAI Sharks	170	347	517	354	68%
BSAI Shortraker Rockfish	425	116	541	544	101%
BSAI Skates	15,300	4,700	20,000	18,792	94%
CAI-WAI Blackspotted/ Roughey Rockfish	144	25	169	303	179%

2020					Date	2021					Date
Pacific Cod	Bering Sea	AFA CP	Trawl	May 04	May 04	Pacific Cod	Bering Sea	AFA CP	Trawl	March 15	March 15
Pacific Cod	Aleutian Islands	AFA CP	Trawl	May 04	May 04	Pacific Cod	Aleutian Islands	AFA CP	Trawl	March 15	March 15
Sablefish	Bering Sea	All	Trawl	July 01	July 01	Sablefish	Bering Sea	AFA Inshore	Trawl	July 17	July 17
Greenland Turbot	Aleutian Islands	All	All Gear	July 28	July 28	Sablefish	Bering Sea	BSAI Trawl Limited Access Sector	Trawl	July 17	July 17
Other Rockfish	Aleutian Islands	All	All Gear	July 28	July 28	Sablefish	Bering Sea	Amendment 80	Trawl	July 17	July 17
Roughey Rockfish	Aleutian Islands - Western 543	All	All Gear	August 20	August 20	Sablefish	Bering Sea	AFA Mothership	Trawl	July 17	July 17
Roughey Rockfish	Aleutian Islands - Central 542	All	All Gear	August 20	August 20	Sablefish	Bering Sea	AFA CP	Trawl	July 17	July 17
						Roughey Rockfish	Aleutian Islands - Central 542	All	All Gear	August 02	August 02
						Roughey Rockfish	Aleutian Islands - Western 543	All	All Gear	August 02	August 02
						Other Rockfish	Aleutian Islands	All	All Gear	September 26	September 26
						Shortraker Rockfish	BSAI	All	All Gear	November 16	November 16

2020 - 2021 BSAI Trawl Groundfish Retained and Discarded

2020 Trawl	Retained	Discarded	% Retained	2021 Trawl	Retained	Discarded	% Retained
Pollock	1,354,058	11,520	99%	Pollock	1,359,509	12,876	99%
Atka Mackerel	58,162	684	99%	Atka Mackerel	59,529	608	99%
Yellowfin Sole	131,734	1,387	99%	Yellowfin Sole	103,559	1,253	99%
Greenland Turbot *	1,966	69	97%	Greenland Turbot	1,538	34	98%
Kamchatka Flounder	7,217	179	98%	Kamchatka Flounder	6,377	143	98%
Pacific Cod *	52,318	1,237	98%	Pacific Cod *	38,665	1,983	95%
Flathead Sole	8,324	583	93%	Flathead Sole	9,161	509	95%
Pacific Ocean Perch	37,556	2,859	93%	Pacific Ocean Perch	30,986	1,737	95%
Rock Sole	24,695	1,227	95%	Rock Sole	12,984	908	93%
Arrowtooth Flounder	9,787	605	94%	Arrowtooth Flounder	7,545	658	92%
Alaska Plaice	18,606	1,472	93%	Alaska Plaice	14,383	1,279	92%
Northern Rockfish	7,319	1,067	87%	Northern Rockfish	5,528	493	92%
Shortraker Rockfish	243	40	86%	Shortraker Rockfish *	306	110	74%
Other Rockfish *	581	398	59%	Other Rockfish *	573	271	68%
Blackspotted/Rougeye Rockfish *	351	101	78%	Blackspotted/Rougeye Rockfish *	292	157	65%
Sablefish *	2,239	2,924	43%	Sablefish *	1,290	1,768	42%
Skates	2,288	3,084	43%	Skates	2,501	3,675	40%
Other Flatfish	1,162	2,897	29%	Other Flatfish	818	1,557	34%
Other Species	19	150	11%	Other Species	8	330	2%
TOTAL	1,718,625	32,482	98%	TOTAL	1,655,552	30,350	98%

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.

2020 - 2021 BSAI Fixed Gear Groundfish Retained and Discarded

2020 Hook-and-Line	Retained	Discarded	% Retained
Pacific Cod	74,296	1,137	98%
Pollock	4,316	526	89%
Sablefish	185	223	45%
Skates	6,565	7,191	48%
Greenland Turbot *	278	12	96%
Other Rockfish *	32	123	21%
Shortraker Rockfish	7	4	66%
Arrowtooth Flounder	122	211	37%
Blackspotted/Rougheye Rockfish *	8	55	13%
Other Species	23	35	40%
Other Flatfish	41	1,001	4%
Sharks	0	22	0%
TOTAL	85,873	10,540	89%

Sorted by 2021 species' percent retained.

* Species on prohibited retention status.

'Other Species' includes Atka mackerel and octopus.

2020 Pot	Retained	Discarded	% Retained
Pacific Cod	19,927	33	100%
Sablefish	910	31	97%
Octopus	135	515	21%
Other Species	42	553	7%
TOTAL	21,014	1,132	95%

Sorted by 2021 species' percent retained.

* Species on prohibited retention status.

'Other Species' includes Atka mackerel, flatfish, rockfish, pollock, sculpin, skates, and sharks.

2021 Hook-and-Line	Retained	Discarded	% Retained
Pacific Cod	56,551	1,428	98%
Pollock	2,838	488	85%
Sablefish	239	254	48%
Skates	6,025	6,591	48%
Greenland Turbot	2	11	13%
Other Rockfish *	15	112	11%
Shortraker Rockfish *	13	105	11%
Arrowtooth Flounder	13	162	7%
Blackspotted/Rougheye Rockfish *	4	63	6%
Other Species	2	57	3%
Other Flatfish	20	677	3%
Sharks	0	27	0%
TOTAL	65,719	9,974	87%

Sorted by species' percent retained.

* Species on prohibited retention status.

'Other Species' includes Atka mackerel and octopus

2021 Pot	Retained	Discarded	% Retained
Pacific Cod	13,962	14	100%
Sablefish	1,830	50	97%
Octopus	18	113	14%
Other Species	20	424	5%
TOTAL	15,831	601	96%

Sorted by species' percent retained.

* Species on prohibited retention status.

'Other Species' includes Atka mackerel, flatfish, rockfish, pollock, skates, and sharks.

2021 Salmon, Crab, and Herring PSC

Chinook Salmon	Total Catch (#)	Limit (#)	%
BS Pollock Fishery	13,782	45,000	31%
AI Pollock Fishery	0	700	0%
BSAI Non-Pollock Fisheries	1,641	n/a	n/a

Non-Chinook Salmon	Total Catch (#)	Limit (#)	%
BS Pollock Fishery	530,626	n/a	n/a
AI Pollock Fishery	0	n/a	n/a
BSAI Non-Pollock Fisheries	4,603	n/n	n/a

Trawl Gear

Crab and Herring	Total Catch
Opilio Tanner Crab (#)	242,630
Bairdi Tanner Crab (#)	565,659
Red King Crab (#)	36,492
Blue King Crab (#)	361
Golden King Crab (#)	16,352
Herring (mt)	1,878

Fixed Gear

Crab and Herring	Total Catch
Opilio Tanner Crab (#)	80,421
Bairdi Tanner Crab (#)	42,517
Red King Crab (#)	297,662
Blue King Crab (#)	269
Golden King Crab (#)	56,128

BSAI Halibut Catch

Fixed Gear Halibut Catch

Fixed Gear Halibut (mt)	Retained	Discarded	Mortality	Limit	%
IFQ/CDQ Halibut Fishery	1,610	148	24	n/a	n/a
IFQ/CDQ Sablefish Fishery		9	3	n/a	n/a
Pacific Cod/Other Groundfish Targets - HAL		1,030	93	710	13%
Pacific Cod/Other Groundfish Targets - Pot		20	6	n/a	n/a
TOTAL	1,610	1,207	126	n/a	n/a

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

IFQ/CDQ Halibut discard mortality rate 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 9% for HAL catcher/processors, 9% for HAL catcher/vessels, and 32% for pot gear.

Trawl Halibut Mortality*

Target	Mortality * (mt)	Limit (mt)
Arrowtooth/Kamchatka/Turbot	121	n/a
Atka Mackerel	42	
Flathead Sole/Other Flatfish	85	
Pacific Cod	74	
Pollock	114	
Rockfish	43	
Rock Sole	79	
Yellowfin Sole	663	
TOTAL	1,220	2,490 (49%)

* Includes 344 mt deck sorted halibut mortality by 21 vessels.

Does not include CDQ.

Discard mortality rates are 100% for pelagic trawl, 84% for non-pelagic trawl CPs and motherships, and 59% for non-pelagic trawl C/Vs.

EFP Deck Sorting Halibut Mortality

Year	Program*	Mortality (mt)	Vessels	% of Trawl Halibut Mortality
2016	EFP	222	12	10%
2017	EFP	595	17	34%
2018	EFP	937	21	48%
2019	EFP	1,098	22	50%
2020	Regulated	582	21	37%
2021	Regulated	344	21	27%

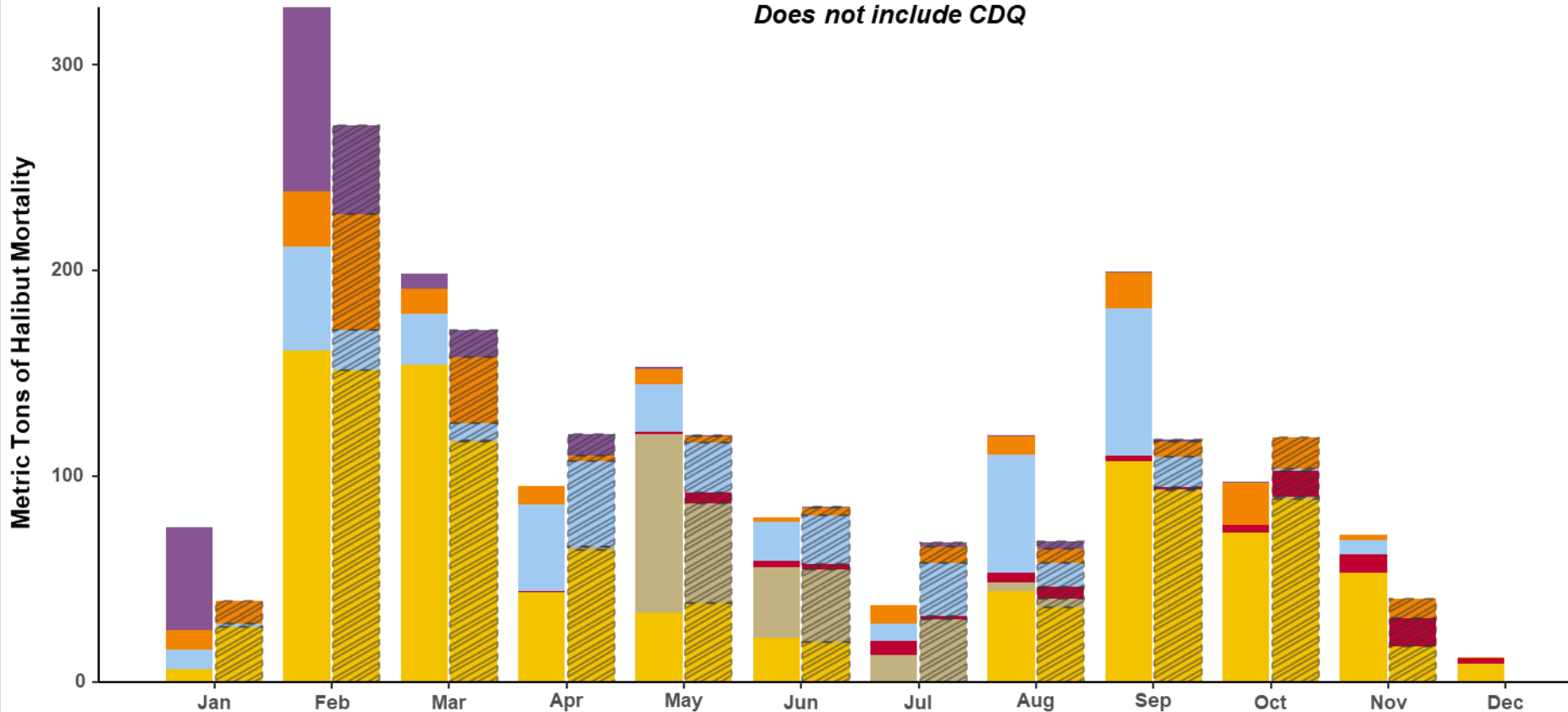
* The regulated program for deck sorting began in 2020.

2020-2021 BSAI Trawl Halibut Mortality

Trawl Halibut	Mortality (mt)	Limit (mt)	%
2020	1,468	2,490	59%
2021	1,220	2,490	49%



Does not include CDQ

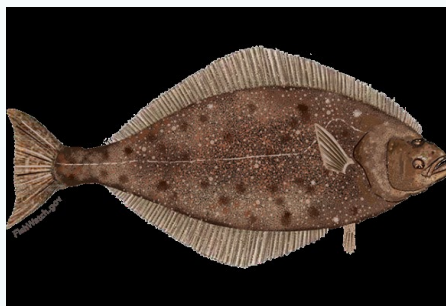


2021 BSAI Reduction in Halibut Mortality Compared to 5-Year Average

	Sector	2016-2020 Average (mt)	2021 * (mt)	% Change (mt)	2016-2020 Rate **	2021 Rate **	% Change in Rate
Hook-and-Line	CPs	127	84	-34%	1.08	1.26	17%
	CVs	2	0	-88%	2.77	1.26	-54%
Hook-and-Line	Total	128	84	-35%	1.09	1.26	16%
Non-Pelagic Trawl	Amendment 80 CPs	1,298	941	-27%	4.21	3.58	-15%
	AFA CPs	63	38	-40%	4.27	3.31	-23%
	CVs	350	145	-59%	6.08	4.05	-33%
Non-Pelagic Trawl	Total	1,710	1,124	-34%	4.49	3.62	-19%
Pelagic Trawl	AFA CPs	55	78	42%	0.11	0.16	41%
	AFA CVs	16	18	11%	0.02	0.02	11%
Pelagic Trawl	Total	71	96	35%	0.06	0.08	34%
CDQ	Hook-and-Line Vessels	13	9	-34%	0.77	1.14	49%
	Non-Pelagic Trawl Vessels	131	59	-55%	3.52	2.70	-23%
	Pelagic Trawl Vessels	10	13	36%	0.07	0.09	33%
CDQ	Total	154	81	-47%	0.80	0.48	-41%
TOTAL	Total	2,064	1,385	-33%	1.09	0.79	-28%

* 2021 data through 11/12/21.

** Rate is kg of halibut / mt of groundfish



2021 BSAI Reduction in Halibut Mortality Compared to 2020

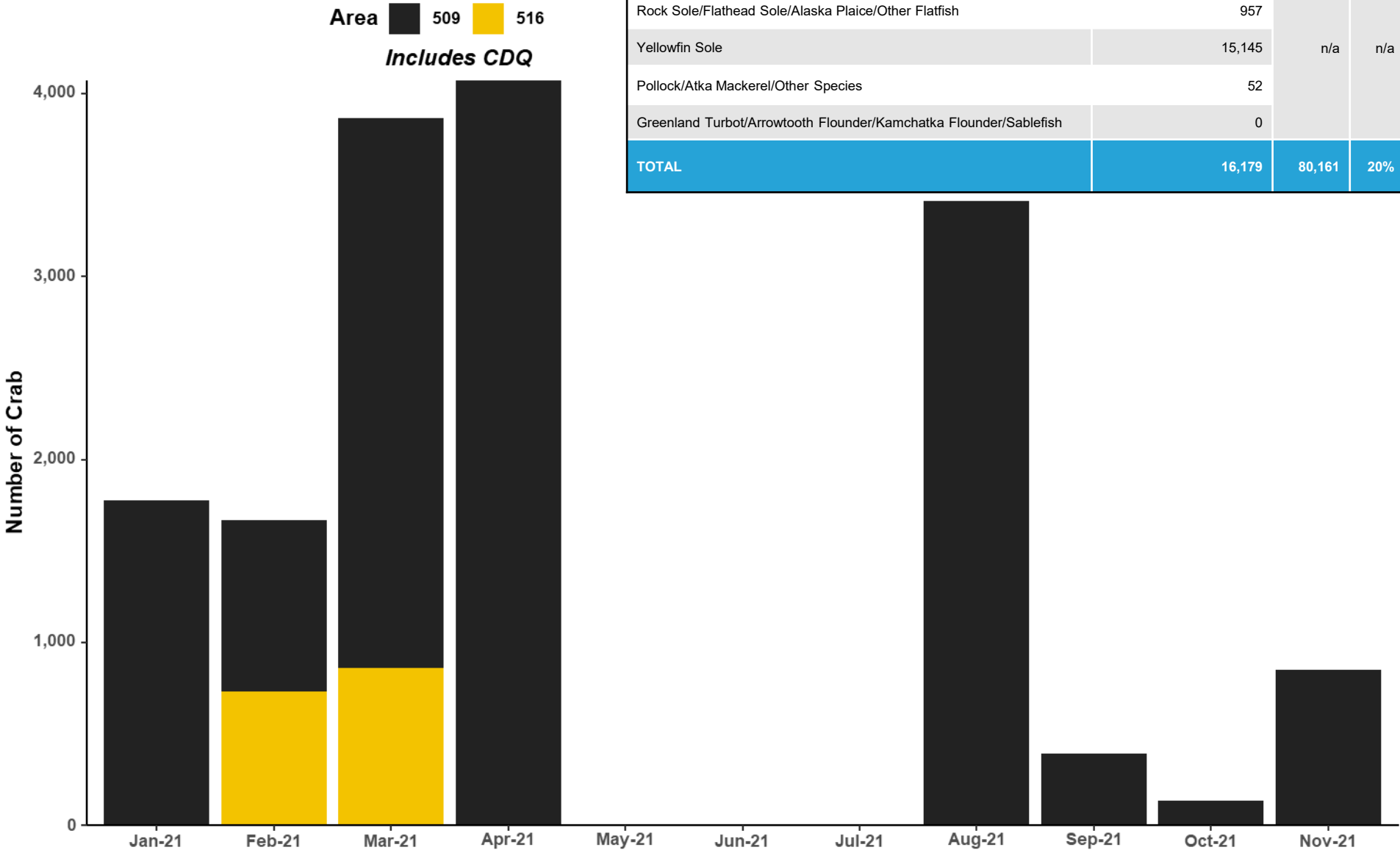


	Sector	2020 (mt)	2021 * (mt)	% Change (mt)	2020 Rate **	2021 Rate **	% Change in Rate
Hook-and-Line	CPs	76	84	10%	0.92	1.26	37%
	CVs	2	0	-90%	2.19	1.26	-42%
Hook-and-Line	Total	78	84	8%	0.93	1.26	35%
Non-Pelagic Trawl	Amendment 80 CPs	1,097	941	-14%	3.52	3.58	2%
	AFA CPs	34	38	12%	2.77	3.31	20%
	CVs	262	145	-45%	4.94	4.05	-18%
Non-Pelagic Trawl	Total	1,392	1,124	-19%	3.70	3.62	-2%
Pelagic Trawl	AFA CPs	56	78	40%	0.12	0.16	37%
	AFA CVs	20	18	-10%	0.03	0.02	-9%
Pelagic Trawl	Total	76	96	27%	0.06	0.08	27%
CDQ	Hook-and-Line Vessels	10	9	-10%	0.69	1.14	65%
	Non-Pelagic Trawl Vessels	99	59	-40%	2.92	2.70	-7%
	Pelagic Trawl Vessels	10	13	38%	0.07	0.09	27%
CDQ	Total	119	81	-32%	0.67	0.48	-29%
TOTAL	Total	1,665	1,385	-17%	0.90	0.79	-12%

* 2021 data through 11/12/21.

** Rate is kg of halibut / mt of groundfish

2021 Zone 1 Trawl Red King Crab Incidental Catch by Target



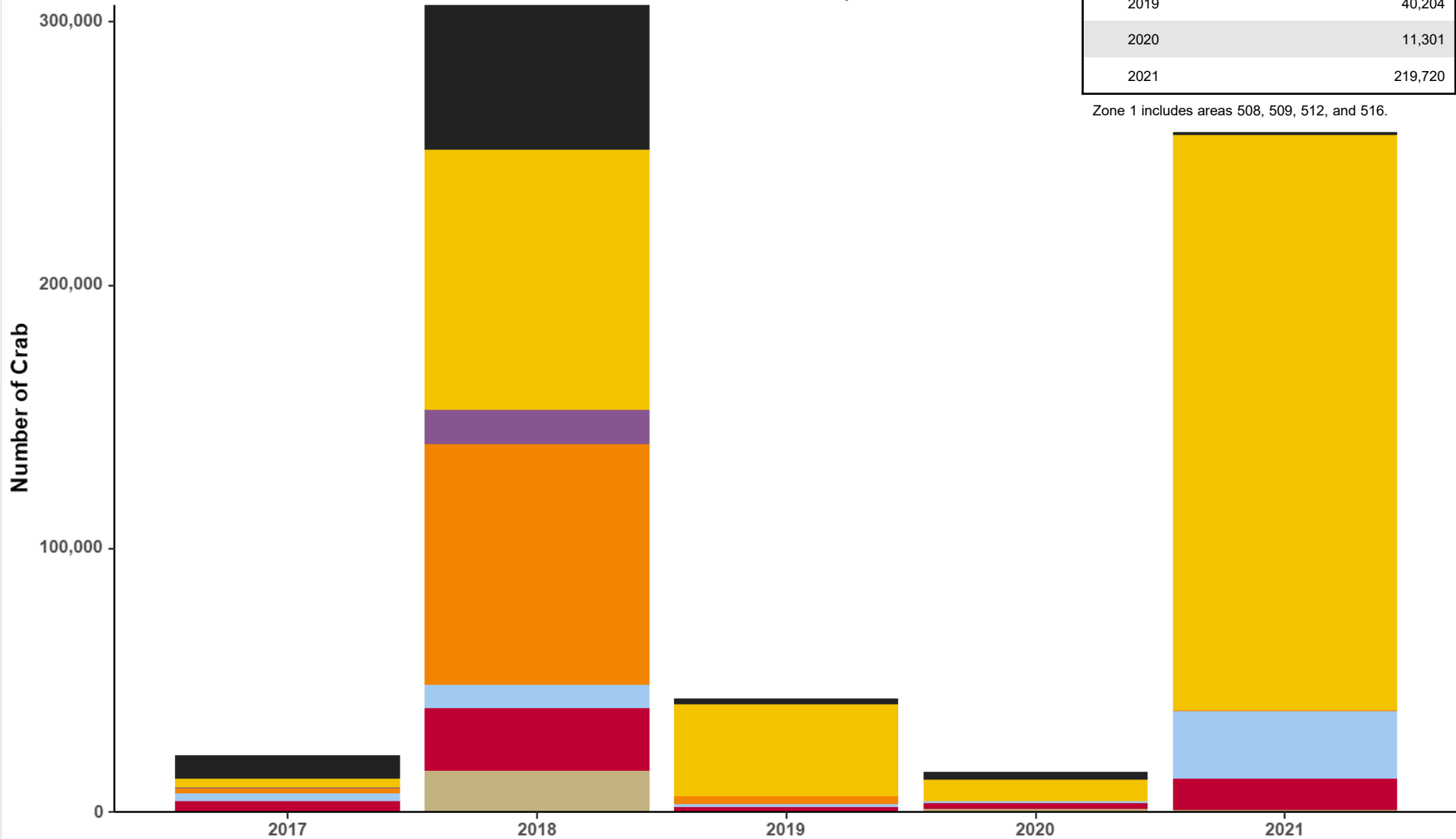
Target	Red King Crab Catch (#)	Limit (#)	%
Pacific Cod	25	n/a	n/a
Rock Sole/Flathead Sole/Alaska Plaice/Other Flatfish	957		
Yellowfin Sole	15,145	n/a	n/a
Pollock/Atka Mackerel/Other Species	52		
Greenland Turbot/Arrowtooth Flounder/Kamchatka Flounder/Sablefish	0		
TOTAL	16,179	80,161	20%

2017-2021 Fixed Gear Red King Crab Incidental Catch



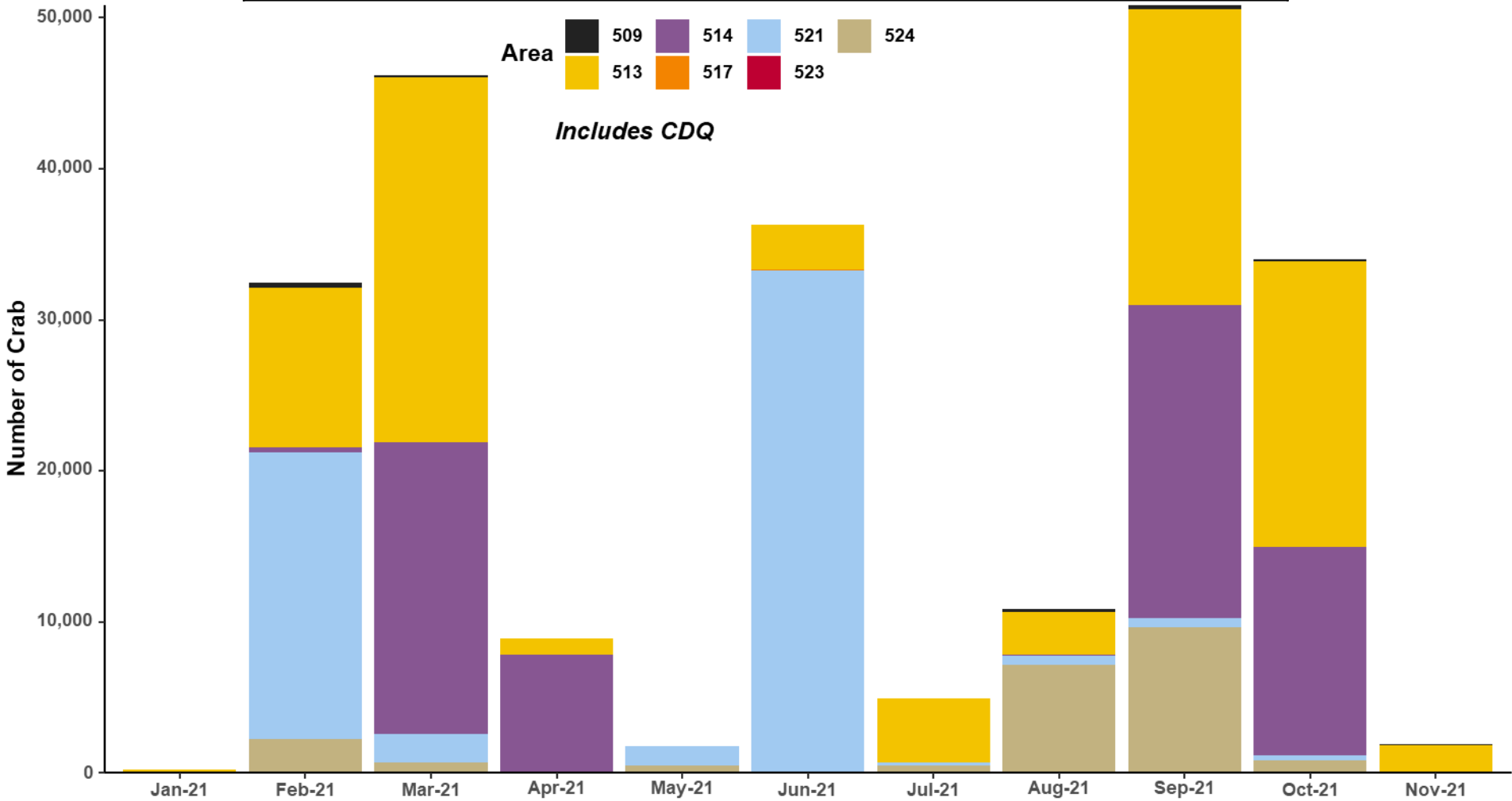
Year	Zone 1 Red King Crab Catch (#)
2017	14,332
2018	244,866
2019	40,204
2020	11,301
2021	219,720

Zone 1 includes areas 508, 509, 512, and 516.

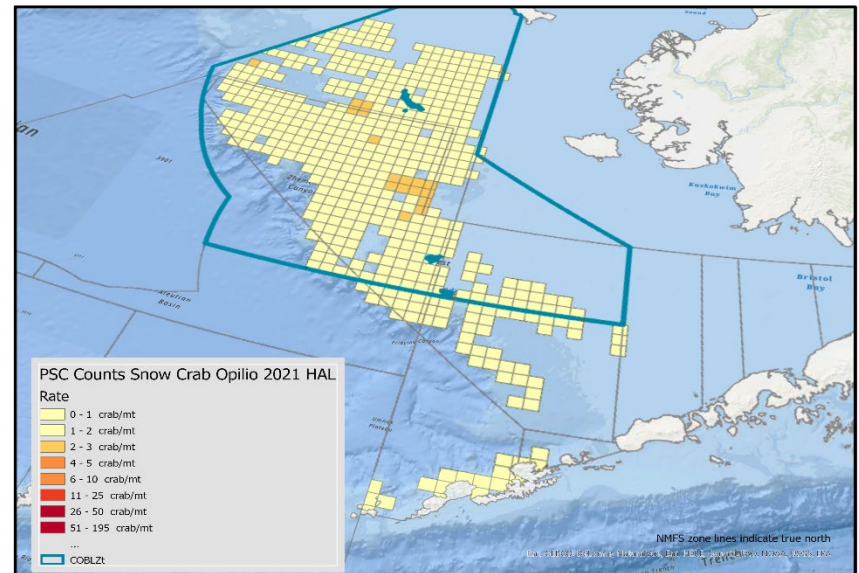
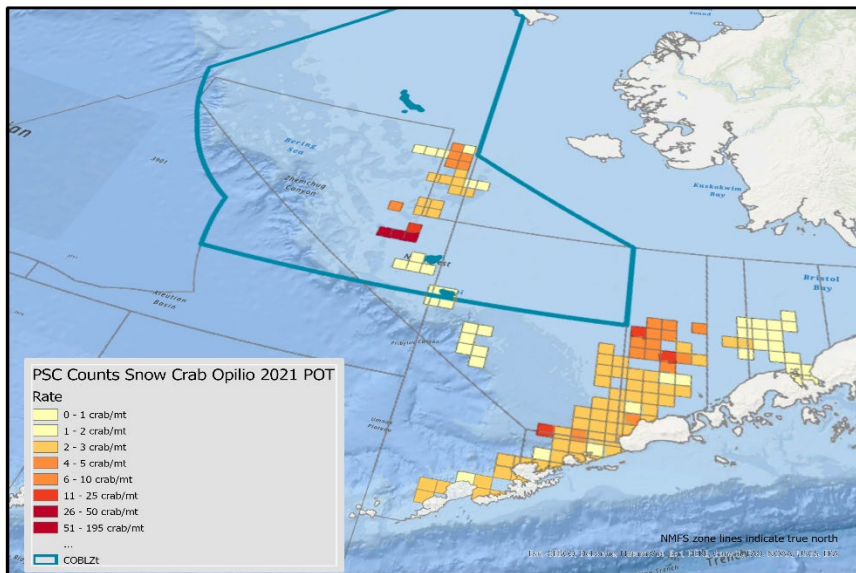
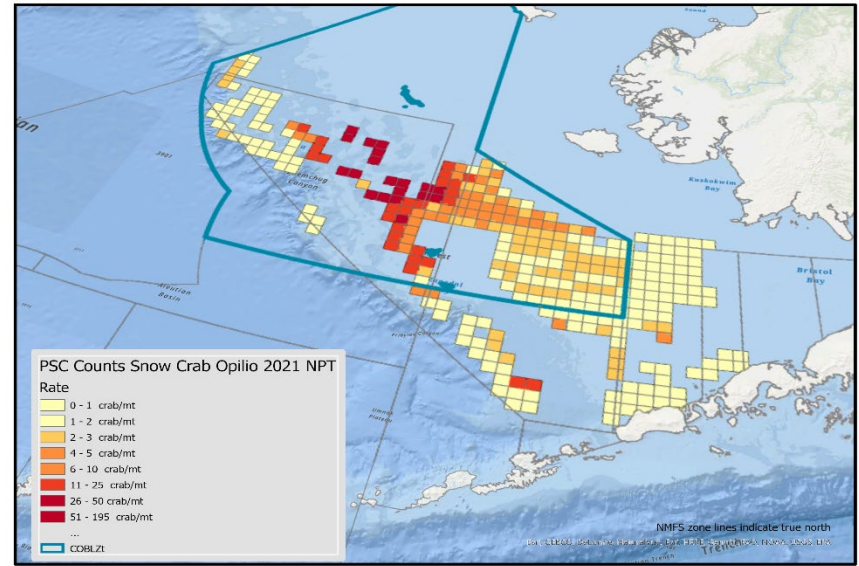
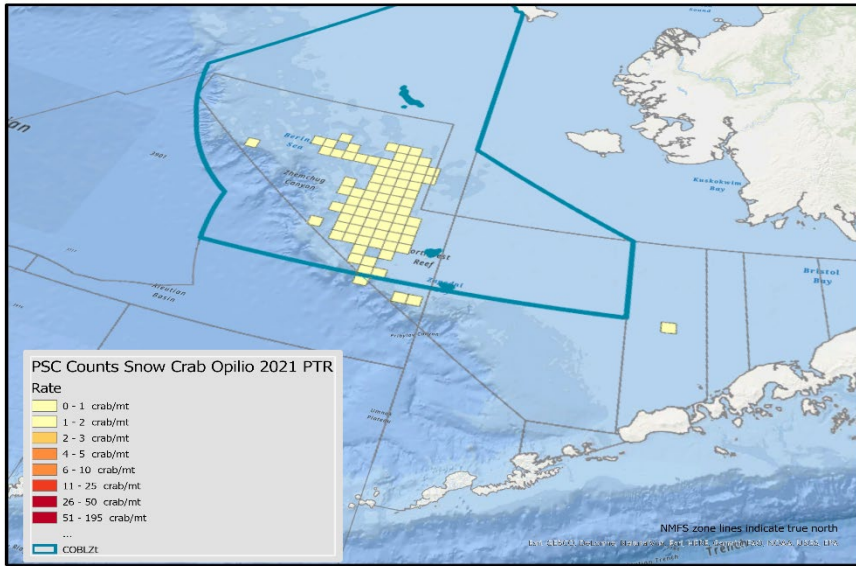


2021 COBLZ Trawl Opilio Crab Incidental Catch by Target

Target	Opilio Crab Catch (#)	Limit (#)	%
Pacific Cod	115	n/a	n/a
Rock Sole/Flathead Sole/Alaska Plaice/Other Flatfish	74,168		
Yellowfin Sole	147,534		
Pollock/Atka Mackerel/Other Species	4,803		
Greenland Turbot/Arrowtooth Flounder/Kamchatka Flounder/Sablefish	1,719		
TOTAL	228,339	5,990,225	4%

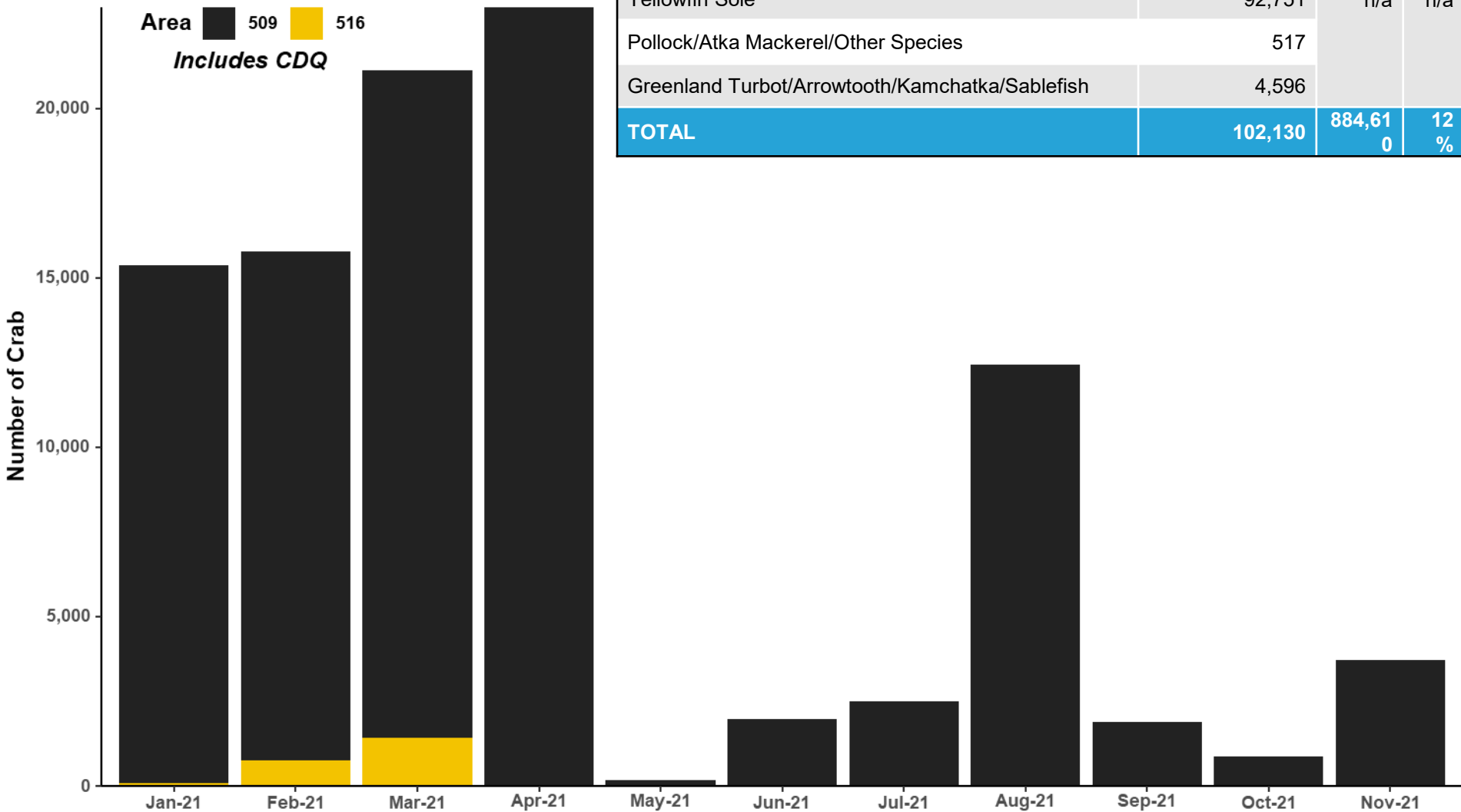


2021 PSC Rate of Opilio Crab



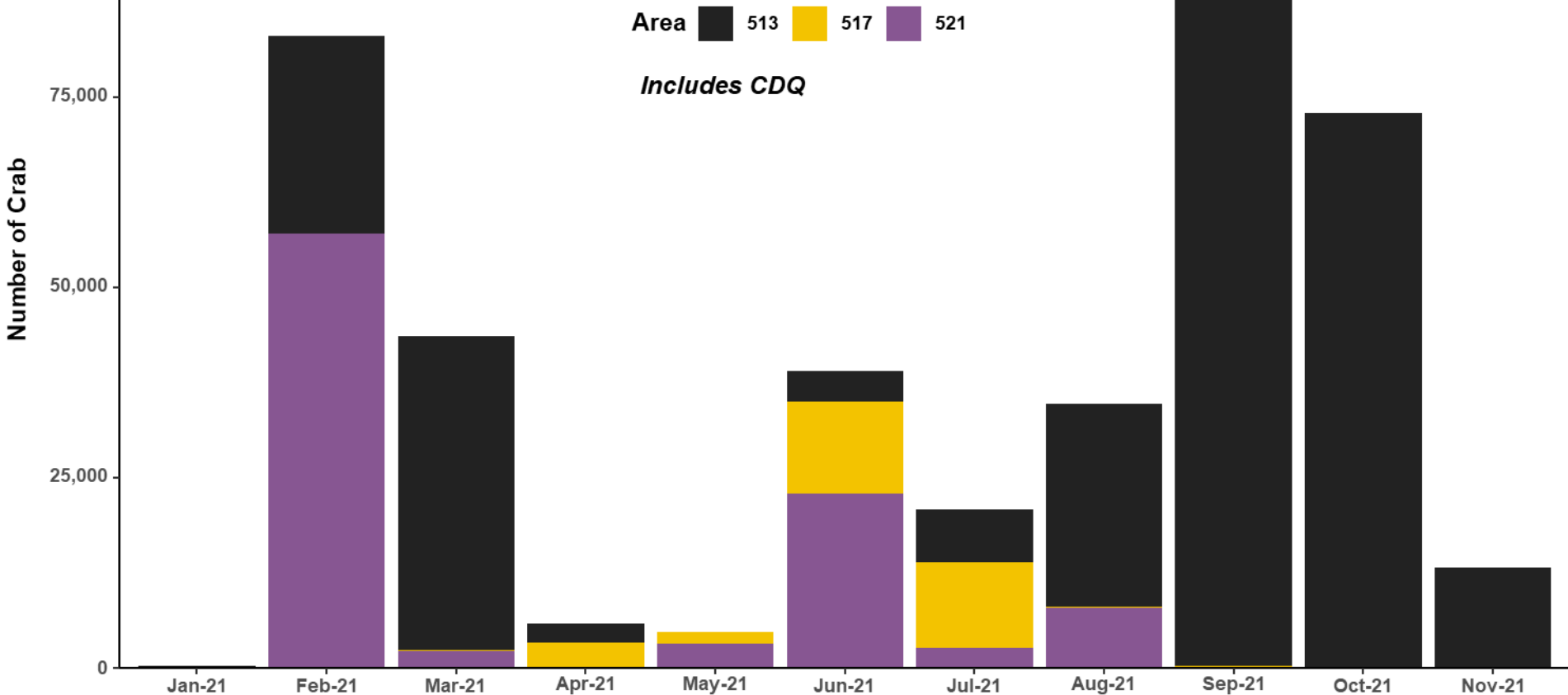
2021 Zone 1 Trawl Bairdi Crab Incidental Catch by Target

Target	Bairdi Crab Catch (#)	Limit (#)	%
Pacific Cod	962	n/a	n/a
Rock Sole/Flathead Sole/Alaska Plaice/Other Flatfish	3,305		
Yellowfin Sole	92,751		
Pollock/Atka Mackerel/Other Species	517		
Greenland Turbot/Arrowtooth/Kamchatka/Sablefish	4,596		
TOTAL	102,130	884,610	12%



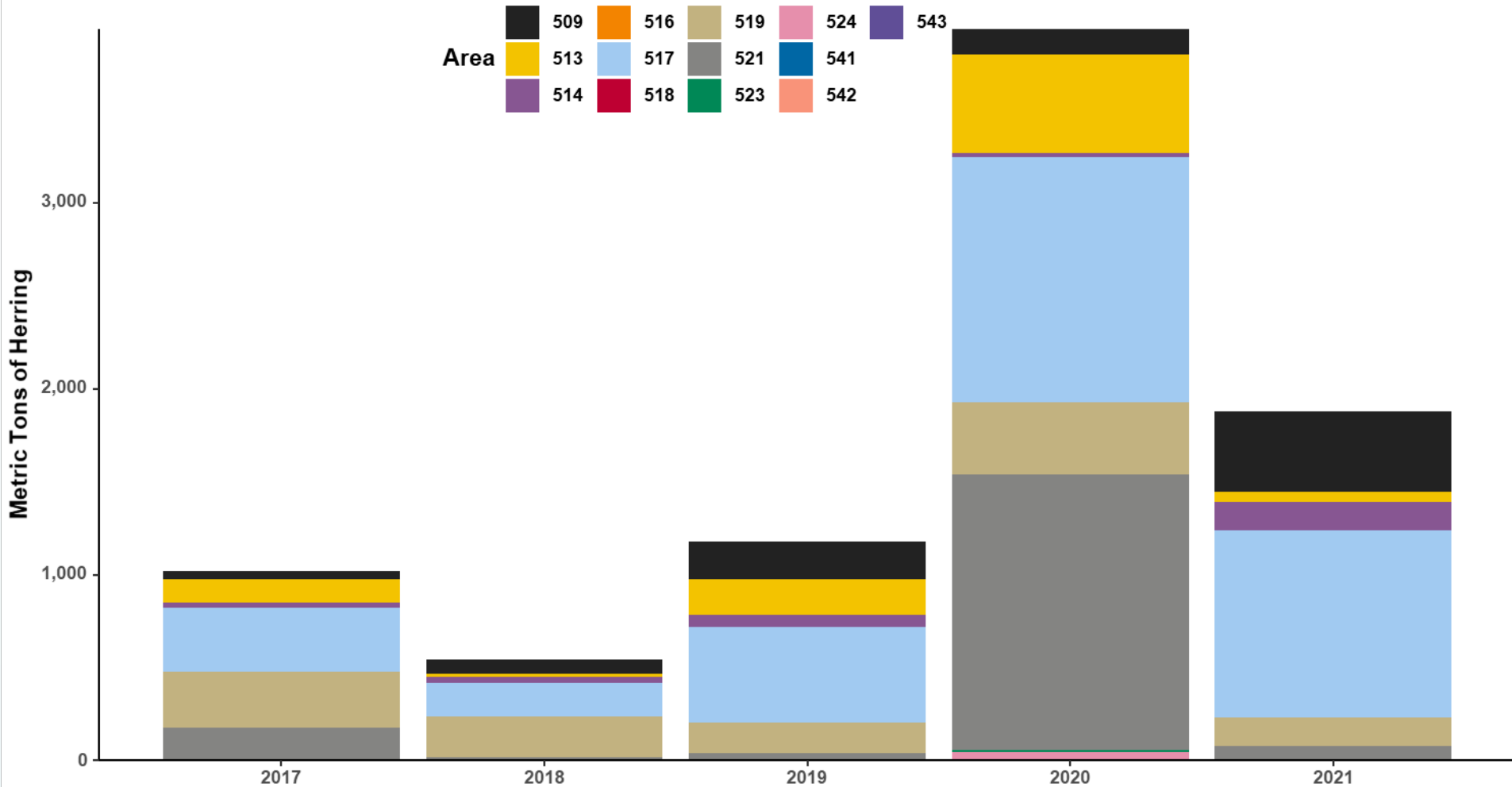
2021 Zone 2 Trawl Bairdi Crab Incidental Catch by Target

Target	Bairdi Crab Catch (#)	Limit (#)	%
Pacific Cod	418	n/a	n/a
Rock Sole/Flathead Sole/Alaska Plaice/Other Flatfish	47,760		
Yellowfin Sole	341,435		
Pollock/Atka Mackerel/Other Species	14,649		
Greenland Turbot/Arrowtooth /Kamchatka /Sablefish	23,659		
TOTAL	427,921	2,187,068	20%



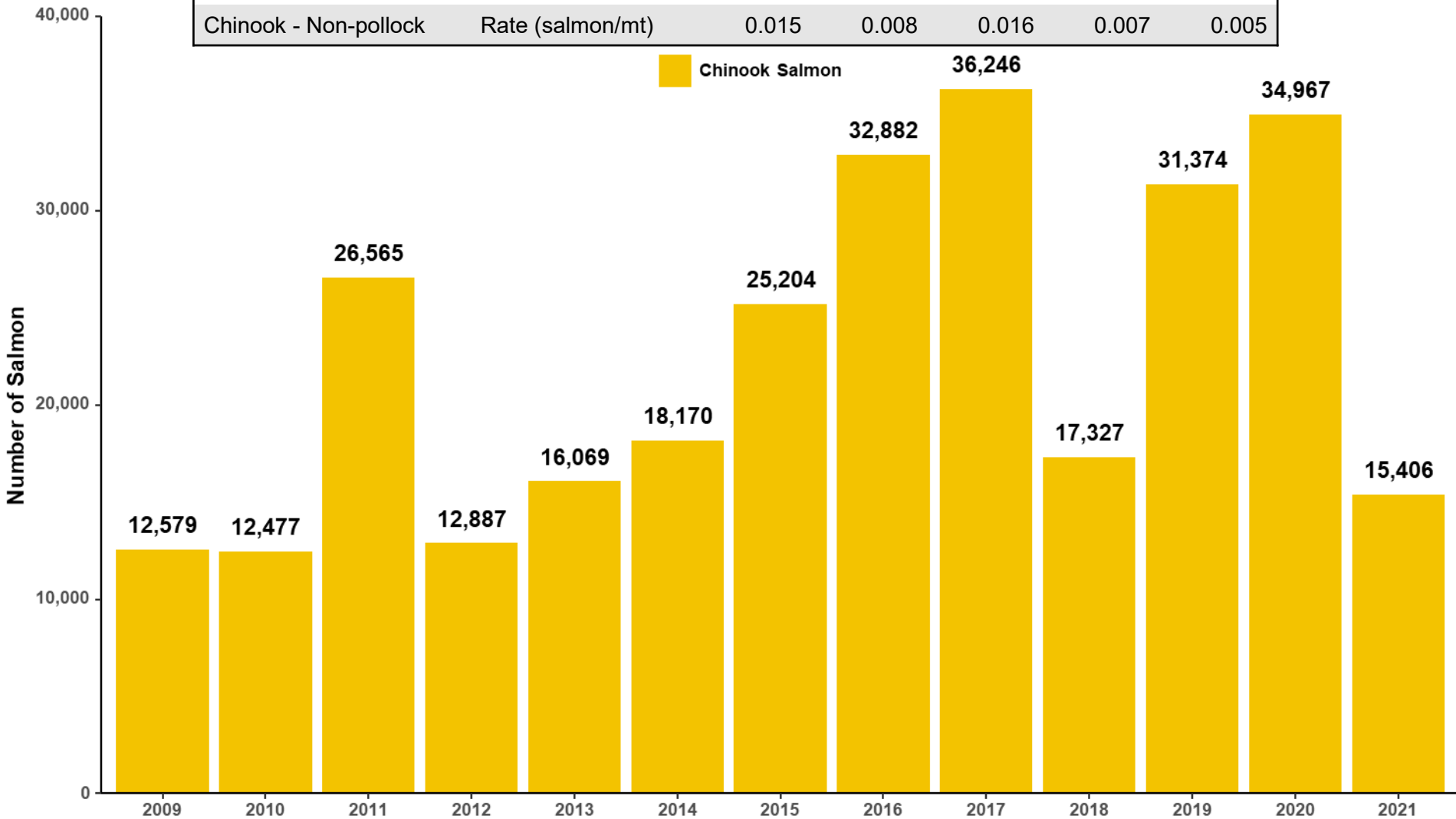
2017-2021 BSAI Trawl Herring Incidental Catch

Target	Herring Catch (mt)	Limit (mt)	%
Pacific Cod	1	14	4%
Pollock (Pelagic Trawl Gear)	1,696	2,472	69%
Pollock/Atka Mackerel/Other Species	11	45	25%
Rock Sole/Flathead Sole/Alaska Plaice/Other Flatfish	54	58	93%
Rockfish	0	8	0%
Greenland Turbot/Arrowtooth Flounder/Kamchatka Flounder/Sablefish	0	8	0%
Yellowfin Sole	115	118	98%
TOTAL	1,878	2,723	69%

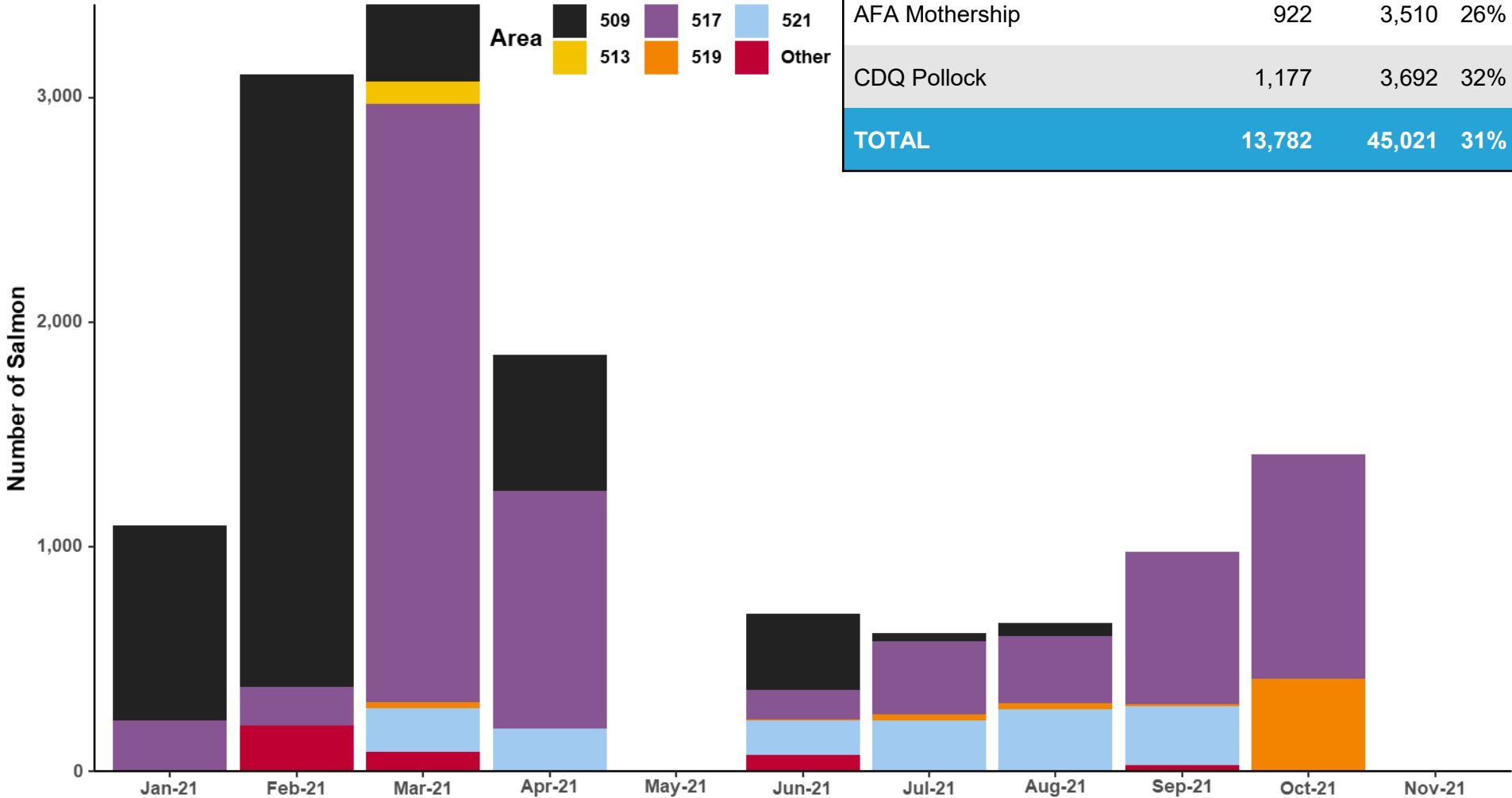


BSAI Trawl Chinook Salmon Incidental Catch

Chinook Salmon		2017	2018	2019	2020	2021
Chinook - Pollock	(#)	30,076	13,745	24,985	32,312	13,782
Chinook - Pollock	Rate (salmon/mt)	0.023	0.01	0.018	0.024	0.01
Chinook - Non-pollock	(#)	6,170	3,582	6,389	2,656	1,624
Chinook - Non-pollock	Rate (salmon/mt)	0.015	0.008	0.016	0.007	0.005



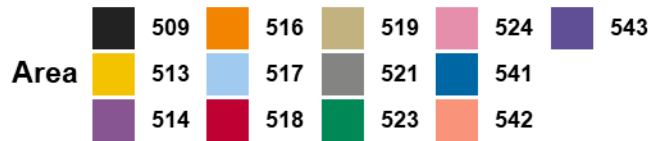
2021 BSAI Pollock Fishery Chinook Salmon Incidental Catch



Chinook Salmon	Total Catch (#)	Limit (#)	%
AFA Inshore	6,976	25,039	28%
AFA Catcher/Processor	4,707	12,780	37%
AFA Mothership	922	3,510	26%
CDQ Pollock	1,177	3,692	32%
TOTAL	13,782	45,021	31%

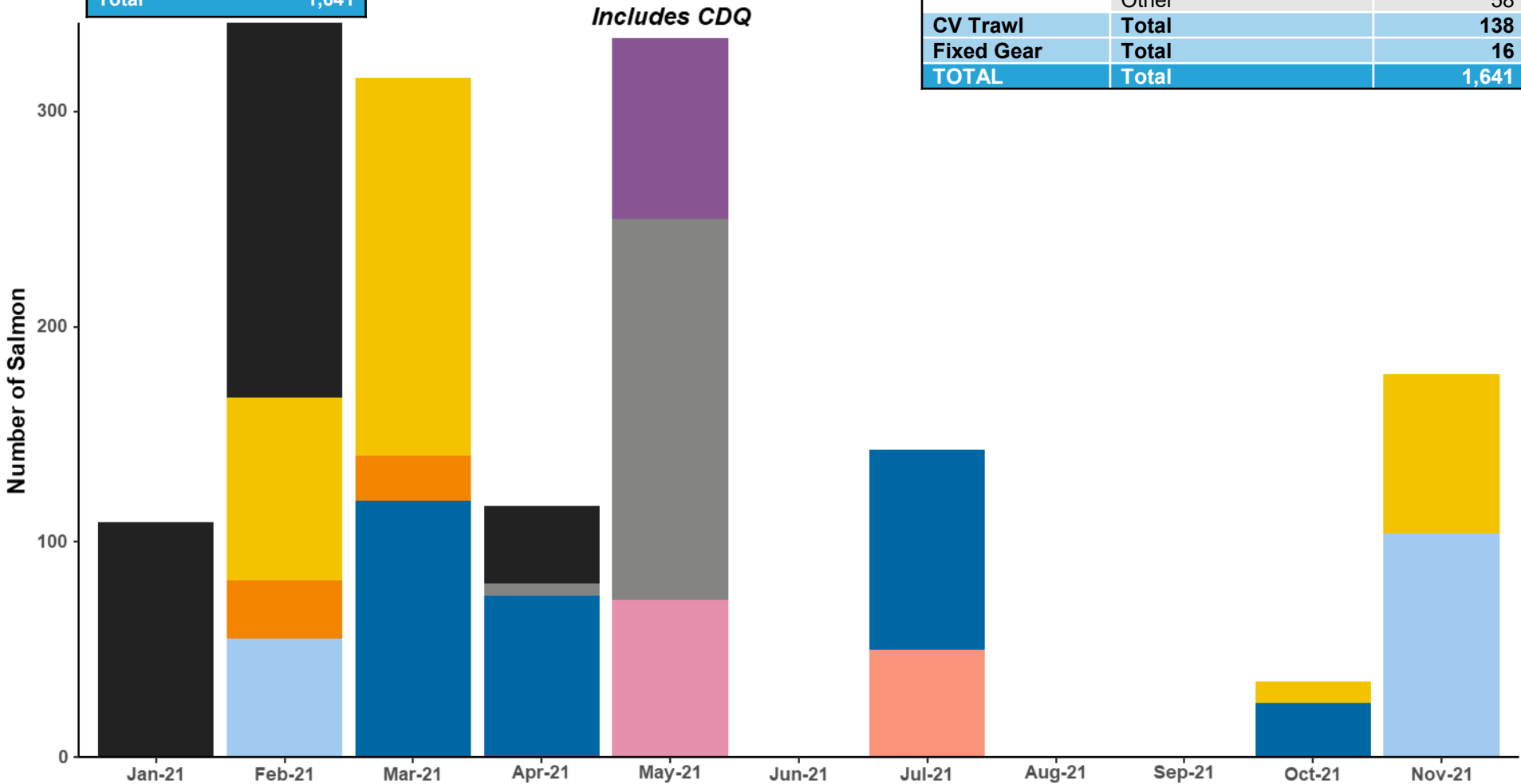
2021 Non-Pollock Fishery Chinook Salmon Incidental Catch by Fishery and Sector

Sector	Total Catch
A80	1,355
CDQ	0
TLAS	269
Fixed Gear	16
Total	1,641



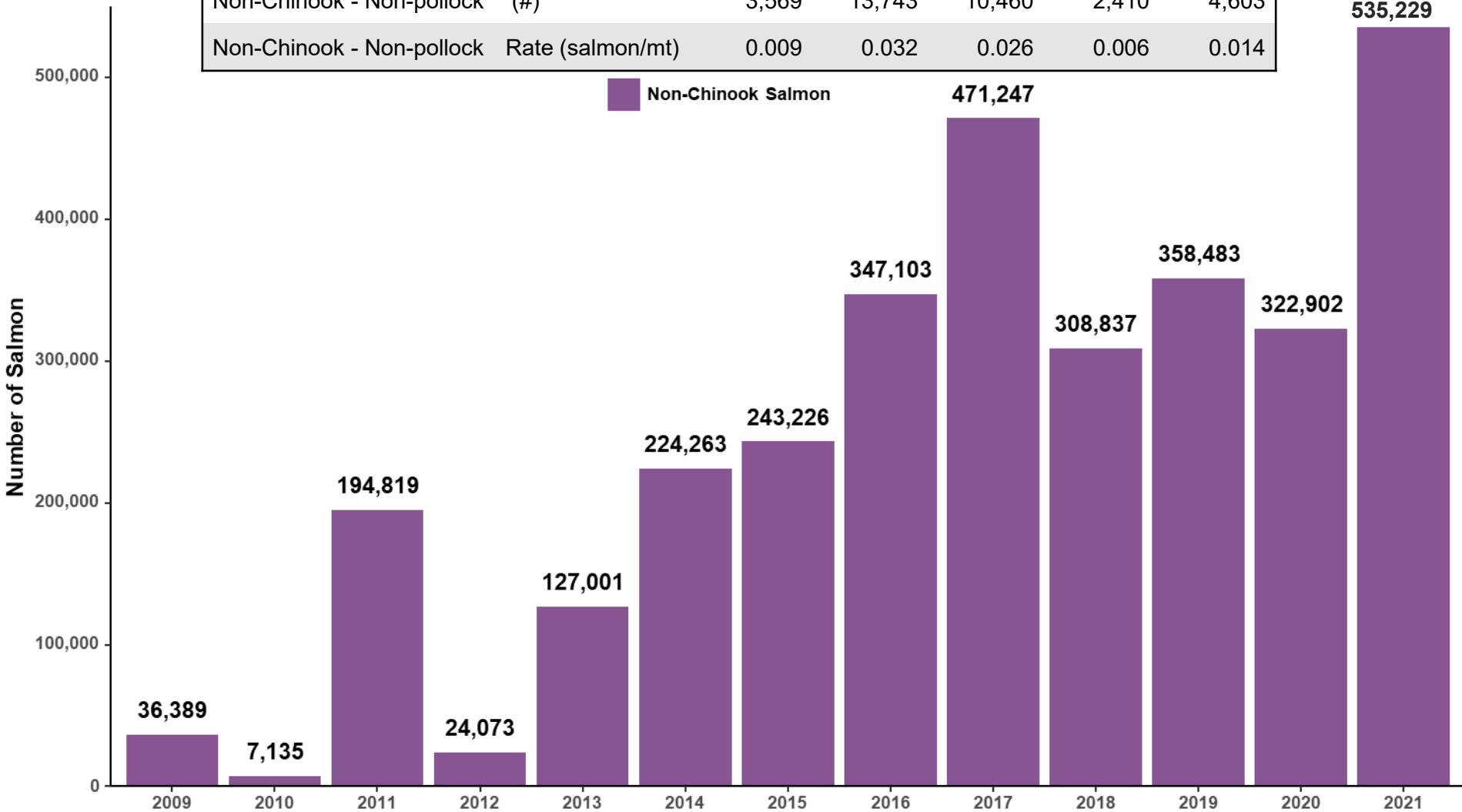
Chinook Salmon	Total Catch
CP Trawl	1,486
CV Trawl	138
Fixed Gear	16
TOTAL	1,641

CP Trawl	Atka Mackerel / Rockfish	466
	Pacific Cod	51
	Flatfish	969
CV Trawl	Pacific Cod	80
	Other	58
Fixed Gear		
TOTAL	Total	1,641

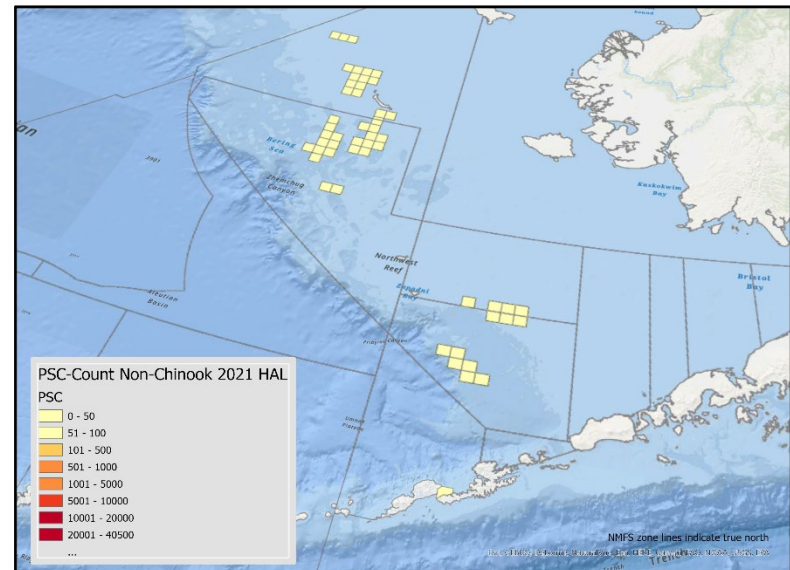
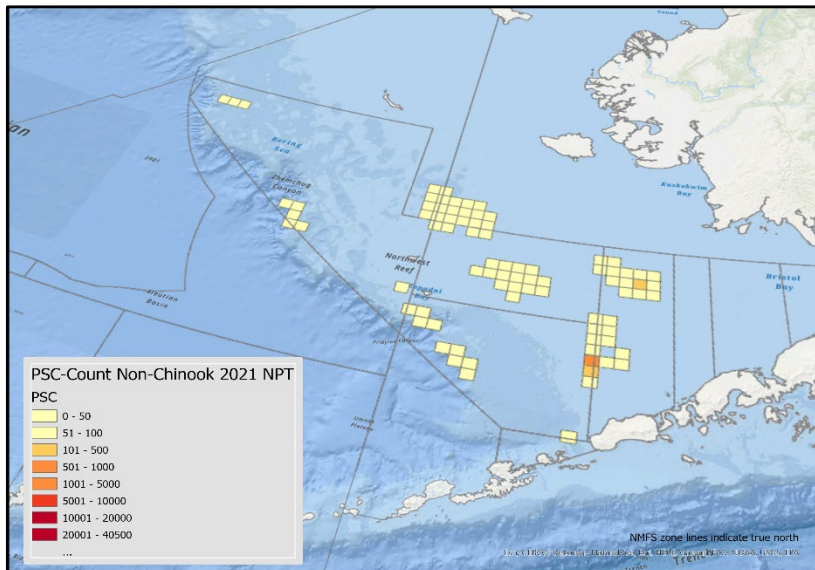
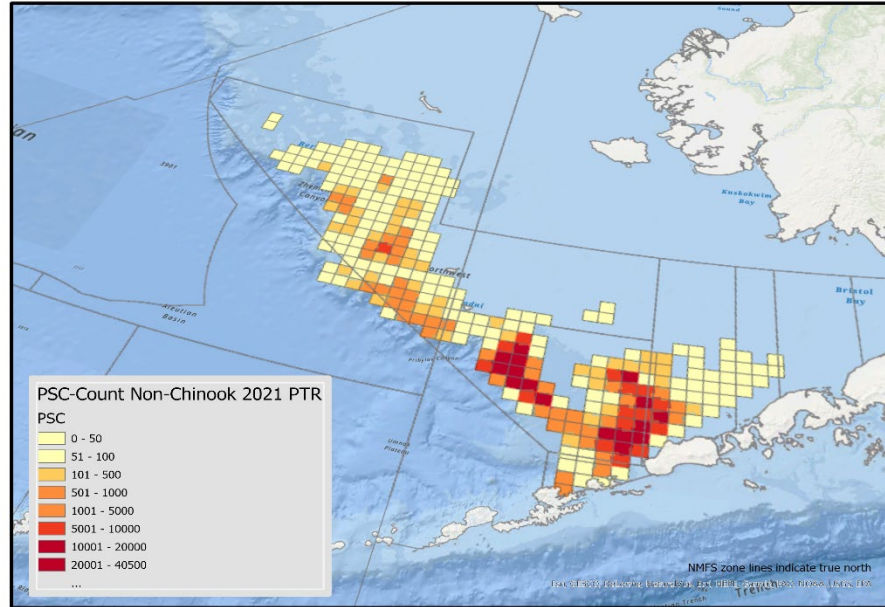


2021 BSAI Trawl Non-Chinook Salmon Incidental Catch

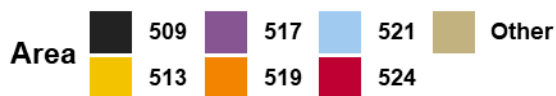
Non-Chinook Salmon		2017	2018	2019	2020	2021
Non-Chinook - Pollock	(#)	467,678	295,094	348,023	320,493	530,626
Non-Chinook - Pollock	Rate (salmon/mt)	0.351	0.219	0.251	0.239	0.392
Non-Chinook - Non-pollock	(#)	3,569	13,743	10,460	2,410	4,603
Non-Chinook - Non-pollock	Rate (salmon/mt)	0.009	0.032	0.026	0.006	0.014



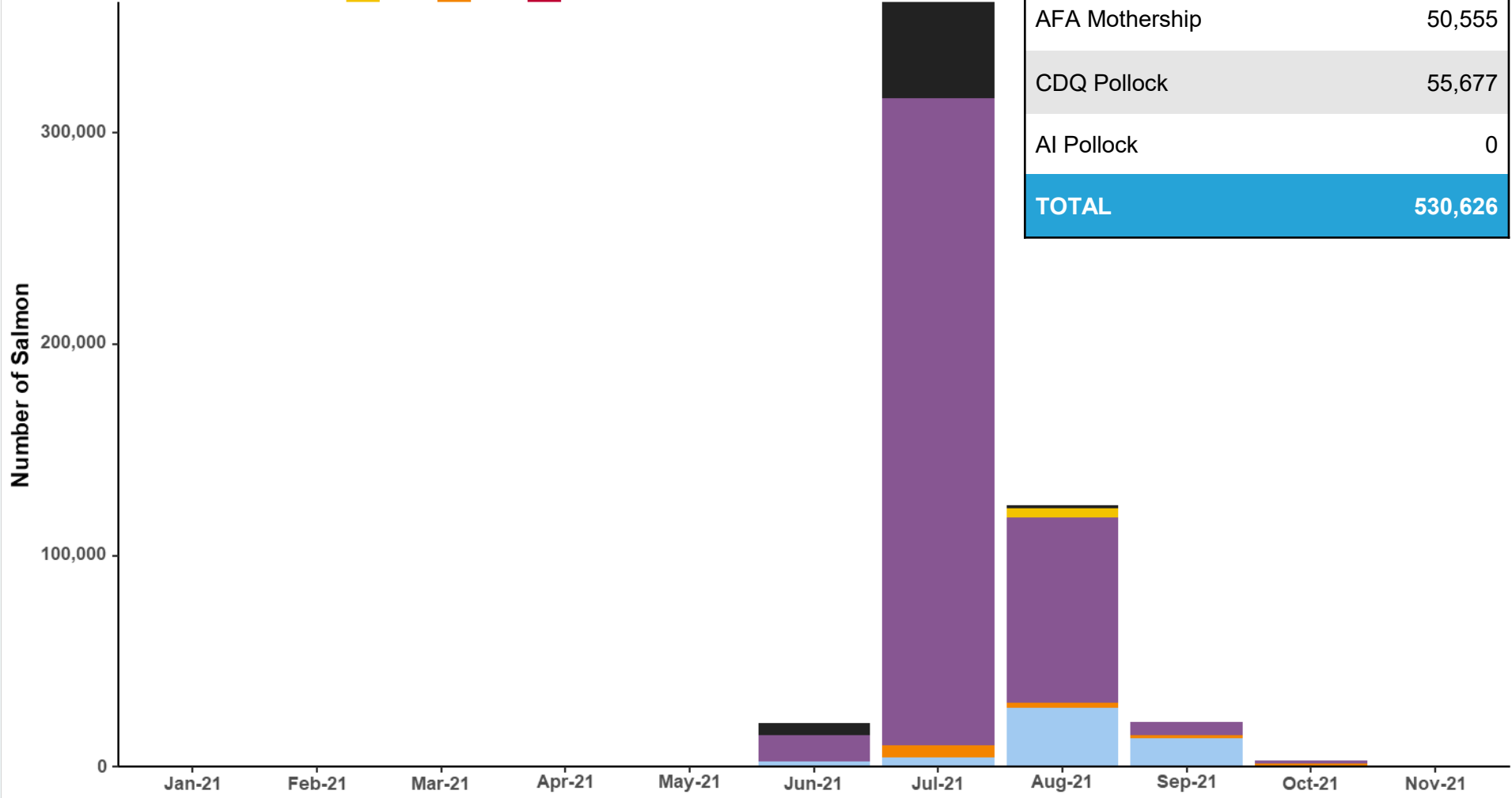
2021 PSC Count of Non-Chinook Salmon



2021 BSAI Pollock Fishery Non-Chinook Salmon Incidental Catch

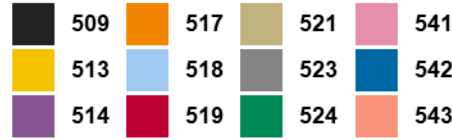


Non-Chinook Salmon	Total Catch (#)
AFA Inshore	326,430
AFA Catcher/Processor	97,964
AFA Mothership	50,555
CDQ Pollock	55,677
AI Pollock	0
TOTAL	530,626



2021 BSAI Non-Pollock Non-Chinook Salmon Incidental Catch by Fishery and Sector

Sector	Total Catch
A80	3,994
CDQ	259
TLAS	350
Fixed Gear	53
Total	4,656



Non-Chinook Salmon		Total Catch
CP Trawl	Atka Mackerel / Rockfish	1,959
	Pacific Cod	13
	Flatfish	2,227
CP Trawl	Total	4,199
CV Trawl	Pacific Cod	23
	Other	382
CV Trawl	Total	404
Fixed Gear	Total	53
TOTAL	Total	4,656

