

West Coast Groundfish Shorebased IFQ Program

Inseason Catch Report, June 2014

Sean E. Matson, Ph.D.

National Marine Fisheries Service

West Coast Region, Sustainable Fisheries Division

June 19, 2014

Contents

A. List of figures	i
B. List of tables	i
1. Summary	1
2. Narrative	1-2
2.1. Data used in this report	
2.2. Landings, revenue, price, deliveries, trips and participation	
2.3. Total catch, attainment and retention rates	
2.4. Effort and catch per unit effort	
3. Figures and tables	3-10

A. Figures

Figure 1. IFQ landings of groundfish species, ex-vessel revenue and price by gear type, trip type and year, from non-whiting trips. Trips were designated as vessel-days. See Table 1 for values. Dashed lines represent 2014 data (year in progress). See text for PacFIN 2014 data completeness as of the date of this query. 3

Figure 2. Counts of IFQ deliveries (landing receipts), trips (vessel days), and vessels making landings groundfish species by gear type, trip type and year. Data shown here are all from non-whiting trips. Trips were designated as vessel-days. See Table 1 for values. Dashed lines represent 2014 data (year in progress). See text for PacFIN 2014 data completeness as of the date of this query..... 3

Figure 3. Shorebased IFQ attainment as of June 3, 2014 by species/area category (blue filled dots). Open squares represent the average annual attainment from 2011-2013, whiskers show plus and minus one standard deviation. 5

Figure 4. Shorebased IFQ non-whiting retention rates as of June 3, 2014 by species/area category (orange filled dots), as well as average annual retention rates from 2011-2013 (black open squares); whiskers represent plus and minus one standard deviation. Source: NMFS IFQ Vessel Account Database. 7

Figure 5. Monthly non-whiting effort (left panel, number of trips) and catch per unit effort (right panel, total catch per trip) through May of 2014 (black dots), compared with the annually averaged monthly values for 2011-2013 (orange or blue open squares). Whiskers represent plus and minus one standard deviation. Source: NMFS IFQ Vessel Account Database..... 9

B. Tables

Table 1. IFQ landings of groundfish species, corresponding ex-vessel revenue, counts of deliveries, trips and vessels participating by trip type (whiting or non-whiting), for 2011-present. Trips were defined as vessel-days. *See text for 2014 data completeness in PacFIN as of the date of this query. 4

Table 2. Composition of non-whiting IFQ groundfish landings and ex-vessel revenue by gear for 2011 to present. *See text for 2014 data completeness in PacFIN as of the date of this query..... 4

Table 3. Shorebased IFQ attainment as of June 3, 2014 by species/area category, as well as average annual attainment from 2011-2013. There were only non-whiting trips as of June 3, when these data were queried. Source: NMFS IFQ Vessel Account Database. 6

Table 4. Shorebased IFQ retention rates as of June 3, 2014 by species/area category, as well as average annual retention rate and standard deviation from 2011-2013. There were only non-whiting trips as of June 3, when these data were queried. Source: NMFS IFQ Vessel Account Database. 8

1. Summary

This report describes progress during 2014 in the Shorebased IFQ Program, for catch and related metrics, as well as select topics for 2011 through 2013. Non-whiting midwater landings, revenue, and deliveries have been increasing rapidly since 2011 through 2013, targeting yellowtail and widow rockfish. In contrast, non-trawl landings and revenue have been consistently dropping from 2011 through 2013, likely related to declining sablefish prices over those years. Bottom trawl metrics varied little over this period by comparison. Current attainment during 2014 as of June 3 is shown compared to average annual attainment for 2011-2013. Retention rates remain high, and vary little compared with average annual rates, except minor shelf rockfish which is currently lower than average in the North, and higher in the South. Monthly non-whiting effort and catch per unit effort (CPUE) are also tracking close to historical averages, except that January values were unusually high this year, coinciding with unusually high Dover sole and longspine thornyhead catch in January.

2. Narrative

2.1. Data used in this report

Data from the Pacific Fisheries Information Network (PacFIN) and the National Marine Fisheries Service Shorebased IFQ Vessel Accounts Database (VA) were used for this report. PacFIN was used to inform landings, revenue, gear type, and corresponding counts of trips, deliveries and vessels. PacFIN data were queried from the VDRFD table on June 6, 2014 (data originate from paper fish tickets). Data completeness at that time was estimated as greater than 90 percent complete through March for Washington, April for Oregon, and February for California. Only data from groundfish landings on IFQ trips are presented. Trip type is designated based on vessel-day, while deliveries are defined as landing receipts. Non-trawl landings from PacFIN cannot be divided further at this time (e.g. to longline, pot, etc.) due to confidentiality criteria based on number of vessels per stratum; 2014 data do not yet include enough vessels to show catch by gear type at finer resolution. NMFS VA data were used to show total catch, landings, discard and derived metrics by IFQ species category. VA data were queried on June 10; landings are complete through June 9, although discard may lag slightly behind.

2.2. Landings, revenue, price, deliveries, trips and participation (source = PacFIN)

Shorebased IFQ landings, revenue, ex-vessel price, deliveries trips and participation for 2011 through the present are shown divided by gear type (mid-water trawl, bottom trawl and non-trawl) and trip type (whiting or non-whiting) in Figures 1 and 2, and Table 1. Distribution of non-whiting IFQ landings by gear type is shown in Table 2. These data are from paper fish tickets, and lag behind the NMFS VA data (based on e-tickets) as described in section 2.1.

Non-whiting midwater landings, revenue, and deliveries have been increasing rapidly since 2011 through 2013, although the number of vessels has varied little (Figures 1 and 2, Table 1). Average ex-vessel prices for these landings increased from 2011 to 2012, and dropped slightly in 2013. Yellowtail rockfish has been the most obvious target species from non-whiting mid-water trips, with substantial catch of widow rockfish as well.

Non-trawl landings and revenue have been consistently dropping 2011 through 2013. Sablefish is overwhelmingly the main species caught with IFQ fixed gear, and primarily north of 36 degrees N. latitude. Ex-vessel price has also been dropping from 2011 through 2013, but has increased during the spring of 2014. The extent of the apparent 2014 price increase may reflect low sampling density in incomplete April data, particularly from California. There have been spring price increases in fixed gear IFQ sablefish prices the past three years, followed by a mid-year drop and flattening out for the rest of the year.

Bottom trawl landings, revenue, ex-vessel price, deliveries, trips and participation have all been very consistent from 2011 through 2013, in comparison with other gear types. Bottom trawl revenue, as a proportion of the sector has been increasing over 2011 to the present, mostly as a result of the decreasing proportion of IFQ sector revenue for non-trawl gear.

2.3. Total catch, attainment and retention rates (source = NMFS VA)

Current total catch and attainment rates for each IFQ species/area category in 2014 (as of June 3) are shown in Table 3 and Figure 3. Average annual attainment for 2011 through 2013 and standard deviation are also provided for reference. There were only non-whiting trips as of June 3.

Current non-whiting landed and discarded catch amounts, as well as retention rates for 2014 as of June 3 are shown in Table 4 and Figure 4. Average annual attainment for 2011 through 2013 and standard deviation are also provided for reference. Current retention rates are tracking close to their annual average rates, except shelf rockfish North, which is running below average, and shelf rockfish South, which is running above average. Retention rates are above 80 percent for all categories on non-whiting trips except shelf rockfish, Pacific whiting, and splitnose rockfish (retention of Pacific halibut IBQ is not allowed). Two thirds of the categories are consistently retained at a rate of higher than 90 percent. Aggregate non-whiting retention is currently 95 percent.

2.4. Effort and catch per unit effort (source = NMFS VA)

Monthly effort (number of trips) and catch per unit effort (total catch per trip) for 2014 compared with average values for 2011 through 2013 are shown in Figure 5, in the left and right panels respectively. January effort and CPUE were unusually high; 71 percent and 26 percent higher than average respectively, coinciding with unusually high Dover sole and longspine thornyhead catch in January. Monthly values for other species are very similar to average.

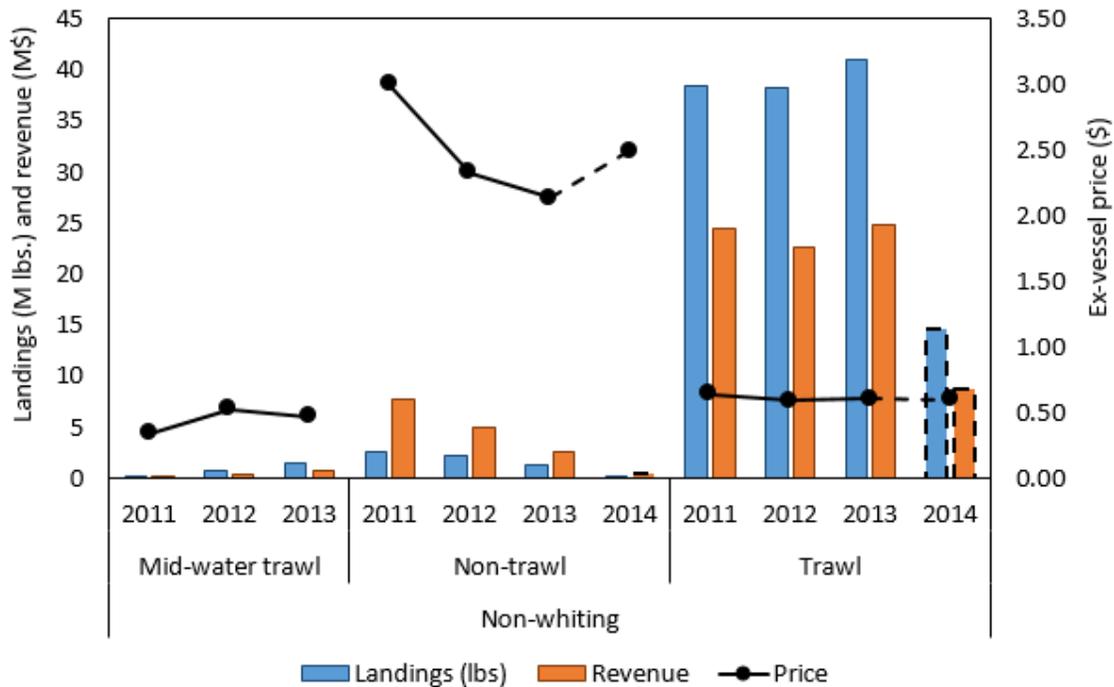


Figure 1. IFQ landings of groundfish species, ex-vessel revenue and price by gear type, trip type and year, from non-whiting trips. Trips were designated as vessel-days. See Table 1 for values. Dashed lines represent 2014 data (year in progress). See text for PacFIN 2014 data completeness as of the date of this query.

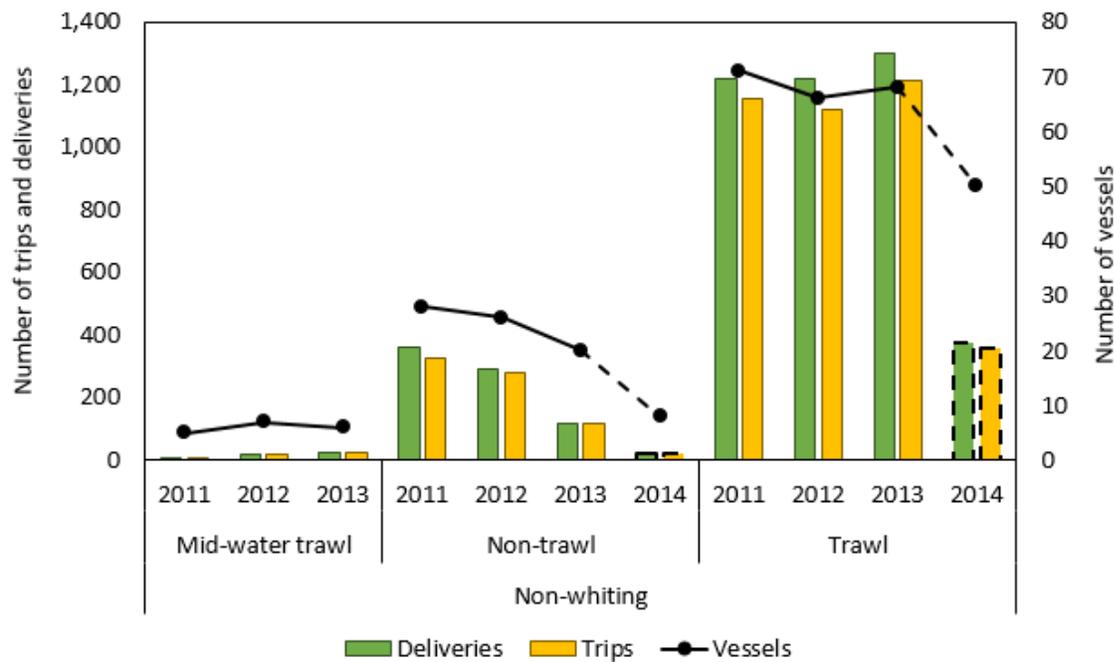


Figure 2. Counts of IFQ deliveries (landing receipts), trips (vessel days), and vessels making landings groundfish species by gear type, trip type and year. Data shown here are all from non-whiting trips. Trips were designated as vessel-days. See Table 1 for values. Dashed lines represent 2014 data (year in progress). See text for PacFIN 2014 data completeness as of the date of this query.

Table 1. IFQ landings of groundfish species, corresponding ex-vessel revenue, counts of deliveries, trips and vessels participating by trip type (whiting or non-whiting), for 2011-present. Trips were defined as vessel-days. *See text for 2014 data completeness in PacFIN as of the date of this query.

Trip type	Gear type	Year	Landings (lbs)	Revenue	Price	Deliveries	Trips	Vessels
Non-whiting	Mid-water trawl	2011	75,376	25,539	0.34	5	5	5
		2012	678,731	356,760	0.53	17	17	7
		2013	1,477,346	691,662	0.47	23	23	6
	Non-trawl	2011	2,543,609	7,639,460	3.00	359	326	28
		2012	2,166,331	5,051,327	2.33	289	279	26
		2013	1,246,969	2,663,787	2.14	119	119	20
		*2014	150,116	373,674	2.49	22	22	8
	Trawl	2011	38,370,973	24,488,020	0.64	1,216	1,156	71
		2012	38,324,474	22,634,517	0.59	1,219	1,121	66
		2013	41,070,364	24,852,911	0.61	1,297	1,210	68
		*2014	14,570,617	8,680,052	0.60	373	360	50
	Whiting	Mid-water trawl	2011	200,908,989	22,527,476	0.11	1,000	899
2012			145,356,364	20,832,282	0.14	705	702	24
2013			214,370,280	26,568,537	0.12	929	916	24

Table 2. Composition of annual non-whiting IFQ groundfish landings and ex-vessel revenue by gear type for 2011 to present. *See text for 2014 data completeness in PacFIN as of the date of this query.

Year	Landings (non-whiting)			Revenue (non-whiting)		
	Mid-water trawl	Non-trawl	Bottom trawl	Mid-water trawl	Non-trawl	Bottom trawl
2011	0.2%	6.2%	93.6%	0.1%	23.8%	76.2%
2012	1.6%	5.3%	93.1%	1.3%	18.0%	80.7%
2013	3.4%	2.8%	93.8%	2.5%	9.4%	88.1%
*2014	0.0%	1.0%	99.0%	0.0%	4.1%	95.9%

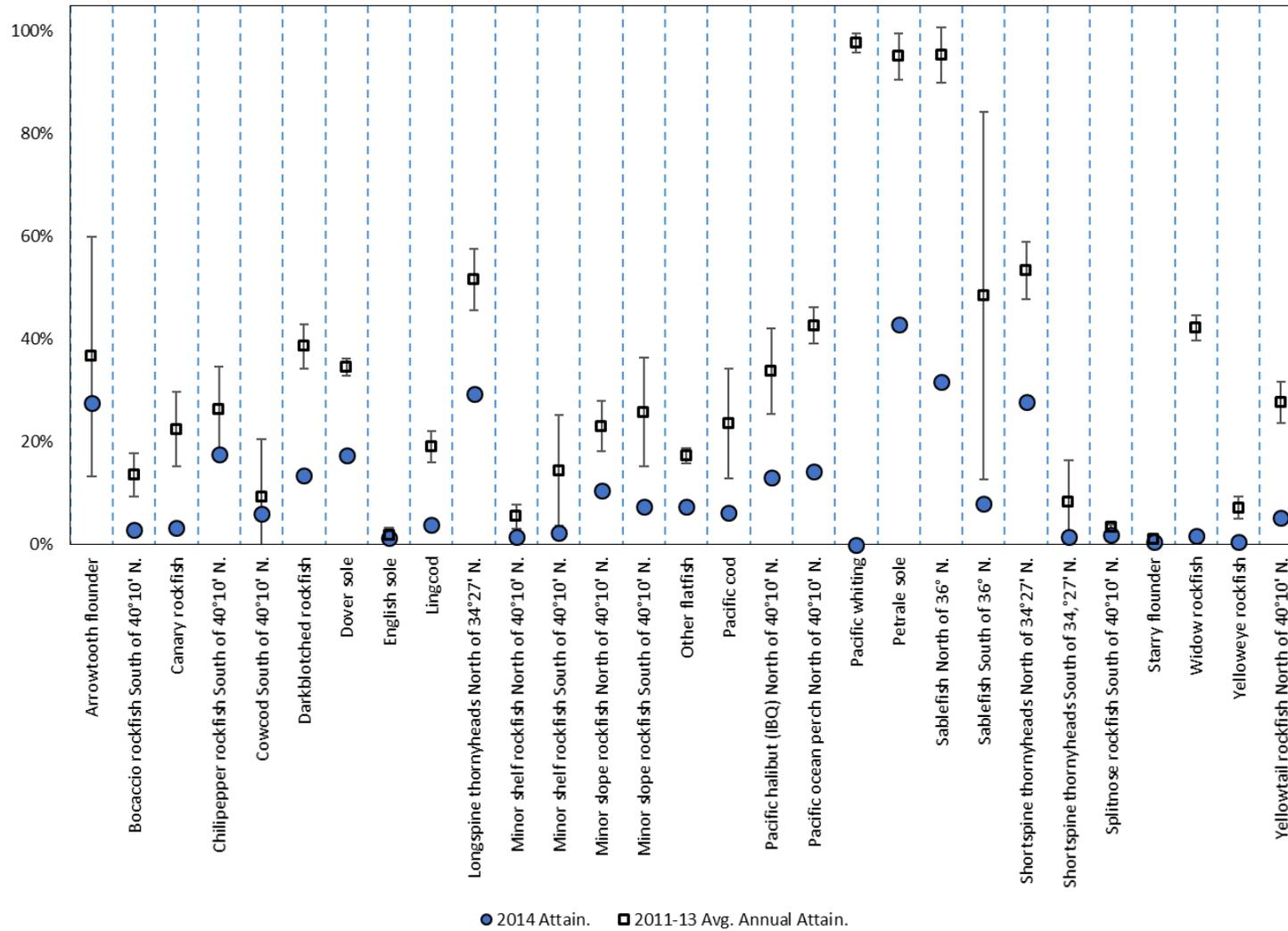


Figure 3. Shorebased IFQ attainment as of June 3, 2014 by species/area category (blue filled dots). Open squares represent the average annual attainment from 2011-2013, whiskers show plus and minus one standard deviation.

Table 3. Shorebased IFQ attainment as of June 3, 2014 by species/area category, as well as average annual attainment from 2011-2013. There were only non-whiting trips as of June 3, when these data were queried. Source: NMFS IFQ Vessel Account Database.

Species Category	2014 NW	2014 W	2014 Total	2014 Allocation	2014 Attain.	2011-13 Avg. Annual Attain.	Std. Dev. Avg. Attainment
Arrowtooth flounder	2,107,998	0	2,107,998	7,643,603	28%	37%	23%
Bocaccio rockfish South of 40°10' N.	5,164	0	5,164	174,165	3%	14%	4%
Canary rockfish	3,033	0	3,033	90,610	3%	22%	7%
Chilipepper rockfish South of 40°10' N.	415,605	0	415,605	2,352,883	18%	26%	8%
Cowcod South of 40°10' N.	133	0	133	2,205	6%	9%	11%
Darkblotched rockfish	82,840	0	82,840	613,789	13%	39%	4%
Dover sole	8,548,493	0	8,548,493	49,018,682	17%	35%	2%
English sole	167,788	0	167,788	11,598,189	1%	2%	1%
Lingcod	137,163	0	137,163	3,592,323	4%	19%	3%
Longspine thornyheads North of 34°27' N.	1,174,126	0	1,174,126	3,993,453	29%	52%	6%
Minor shelf rockfish North of 40°10' N.	16,798	0	16,798	1,119,948	1%	6%	2%
Minor shelf rockfish South of 40°10' N.	4,271	0	4,271	178,574	2%	14%	11%
Minor slope rockfish North of 40°10' N.	183,113	0	183,113	1,740,285	11%	23%	5%
Minor slope rockfish South of 40°10' N.	62,610	0	62,610	834,736	8%	26%	11%
Other flatfish	678,882	0	678,882	9,245,746	7%	17%	2%
Pacific cod	153,626	0	153,626	2,483,309	6%	24%	11%
Pacific halibut (IBQ) North of 40°10' N.	31,108	0	31,108	236,660	13%	34%	8%
Pacific ocean perch North of 40°10' N.	35,601	0	35,601	247,535	14%	43%	4%
Pacific whiting	161,857	0	161,857	240,160,565	0%	98%	2%
Petrale sole	2,249,431	0	2,249,431	5,242,593	43%	95%	5%
Sablefish North of 36° N.	1,394,249	0	1,394,249	4,382,790	32%	95%	5%
Sablefish South of 36° N.	116,381	0	116,381	1,439,839	8%	49%	36%
Shortspine thornyheads North of 34°27' N.	842,570	0	842,570	3,025,822	28%	53%	6%
Shortspine thornyheads South of 34,°27' N.	1,775	0	1,775	110,231	2%	8%	8%
Splitnose rockfish South of 40°10' N.	67,549	0	67,549	3,472,501	2%	3%	1%
Starry flounder	10,544	0	10,544	1,665,592	1%	1%	1%
Widow rockfish	37,693	0	37,693	2,191,020	2%	42%	3%
Yelloweye rockfish	14	0	14	2,205	1%	7%	2%
Yellowtail rockfish North of 40°10' N.	338,194	0	338,194	6,479,055	5%	28%	4%
Total	19,028,609	0	19,028,609	363,338,908	15%	68%	7%

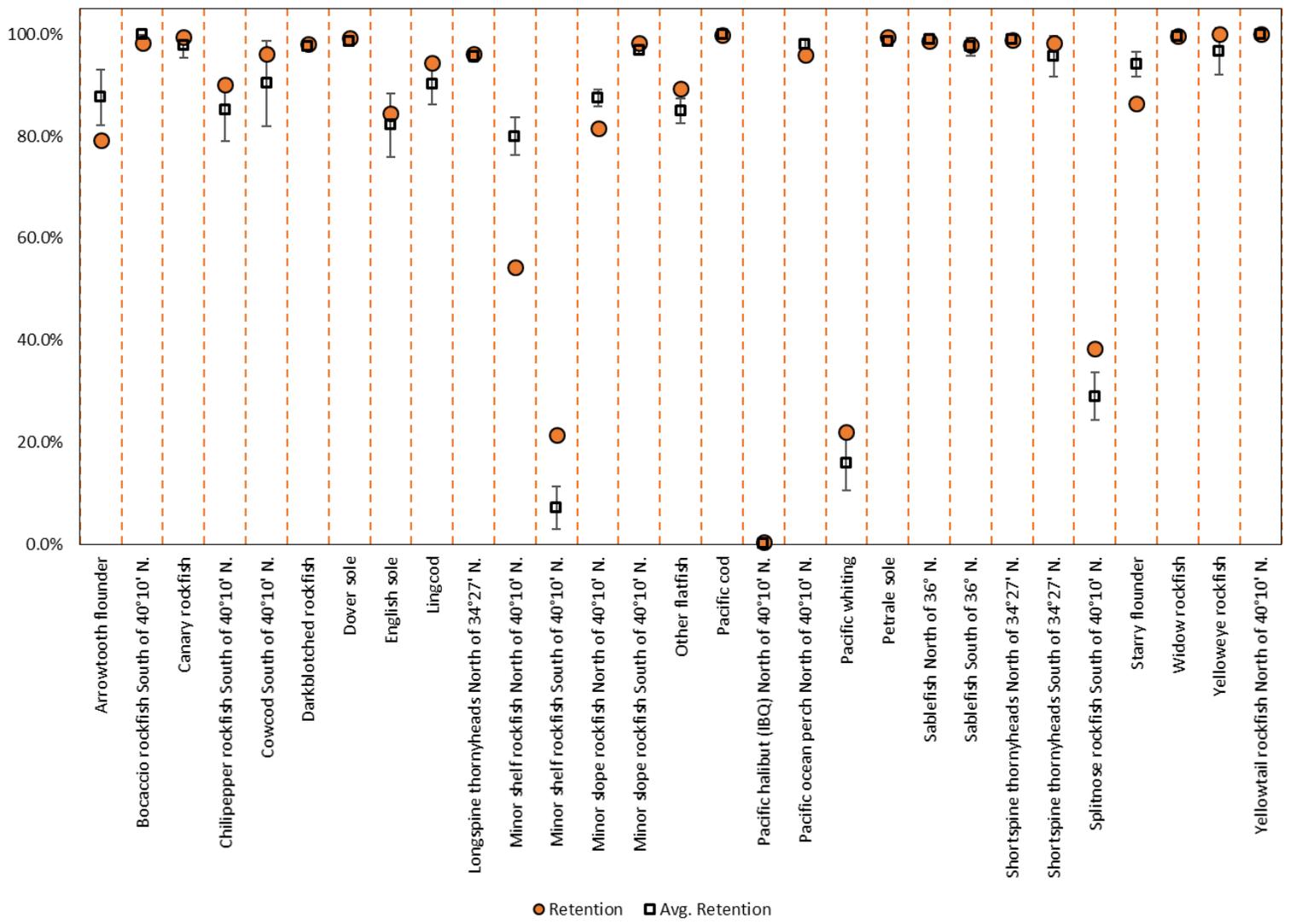


Figure 4. Shorebased IFQ non-whiting retention rates as of June 3, 2014 by species/area category (orange filled dots), and average annual retention rates from 2011-2013 (black open squares); whiskers represent plus and minus one standard deviation. Source: NMFS IFQ Vessel Account Database.

Table 4. Shorebased IFQ non-whiting retention rates as of June 3, 2014 by species/area category, and average annual retention rate and standard deviation from 2011-2013. Source: NMFS IFQ Vessel Account Database.

Species category	2014 Total catch	2014 Landed	2014 Discarded	2014 Retention	2011-13 Avg. Retn	Std. Deviation Retn
Arrowtooth flounder	2,107,998	1,669,493	438,505	79.2%	87.6%	5.5%
Bocaccio rockfish South of 40°10' N.	5,164	5,074	90	98.3%	99.9%	0.1%
Canary rockfish	3,033	3,019	14	99.5%	97.8%	2.5%
Chilipepper rockfish South of 40°10' N.	415,605	374,646	40,959	90.1%	85.1%	6.0%
Cowcod South of 40°10' N.	133	128	5	96.2%	90.3%	8.4%
Darkblotched rockfish	82,840	81,268	1,572	98.1%	97.6%	0.6%
Dover sole	8,548,493	8,487,344	61,149	99.3%	98.5%	0.5%
English sole	167,788	141,632	26,156	84.4%	82.2%	6.2%
Lingcod	137,163	129,598	7,565	94.5%	90.3%	4.0%
Longspine thornyheads North of 34°27' N.	1,174,126	1,128,449	45,677	96.1%	95.7%	1.0%
Minor shelf rockfish North of 40°10' N.	16,798	9,145	7,653	54.4%	80.0%	3.7%
Minor shelf rockfish South of 40°10' N.	4,271	917	3,354	21.5%	7.2%	4.2%
Minor slope rockfish North of 40°10' N.	183,113	149,212	33,901	81.5%	87.5%	1.7%
Minor slope rockfish South of 40°10' N.	62,610	61,504	1,106	98.2%	96.8%	0.8%
Other flatfish	678,882	605,977	72,905	89.3%	84.9%	2.4%
Pacific cod	153,626	153,329	297	99.8%	99.8%	0.1%
Pacific halibut (IBQ) North of 40°10' N.	31,108	165	30,943	0.5%	0.2%	0.2%
Pacific ocean perch North of 40°10' N.	35,601	34,134	1,467	95.9%	97.9%	1.1%
Pacific whiting	161,857	35,856	126,001	22.2%	15.9%	5.4%
Petrale sole	2,249,431	2,235,748	13,683	99.4%	98.6%	0.6%
Sablefish North of 36° N.	1,394,249	1,376,642	17,607	98.7%	98.9%	0.2%
Sablefish South of 36° N.	116,381	113,891	2,490	97.9%	97.6%	1.7%
Shortspine thornyheads North of 34°27' N.	842,570	832,252	10,318	98.8%	99.0%	0.1%
Shortspine thornyheads South of 34°27' N.	1,775	1,746	29	98.4%	95.7%	4.0%
Splitnose rockfish South of 40°10' N.	67,549	25,958	41,591	38.4%	29.1%	4.7%
Starry flounder	10,544	9,122	1,422	86.5%	94.1%	2.4%
Widow rockfish	37,693	37,572	121	99.7%	99.6%	0.5%
Yelloweye rockfish	14	14	0	100.0%	96.7%	4.6%
Yellowtail rockfish North of 40°10' N.	338,194	338,193	1	100.0%	100.0%	0.0%
Total	19,028,609	18,042,028	986,581	94.8%	94.4%	0.5%

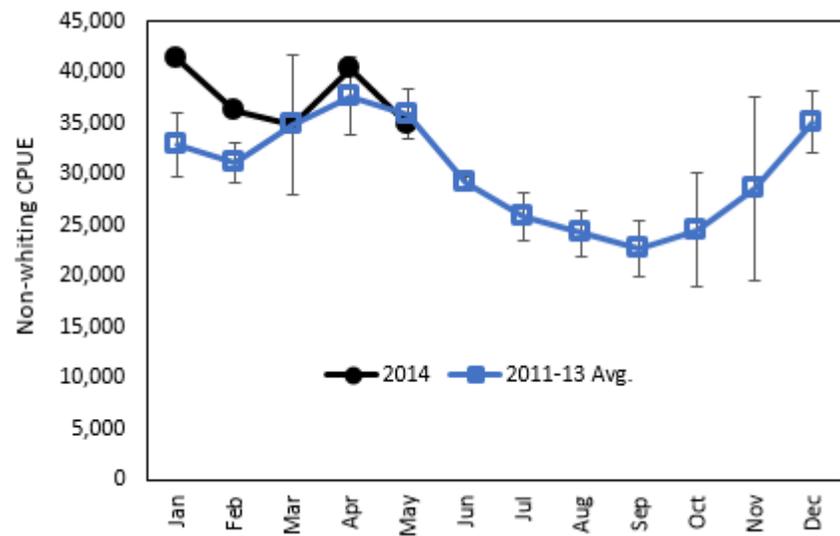
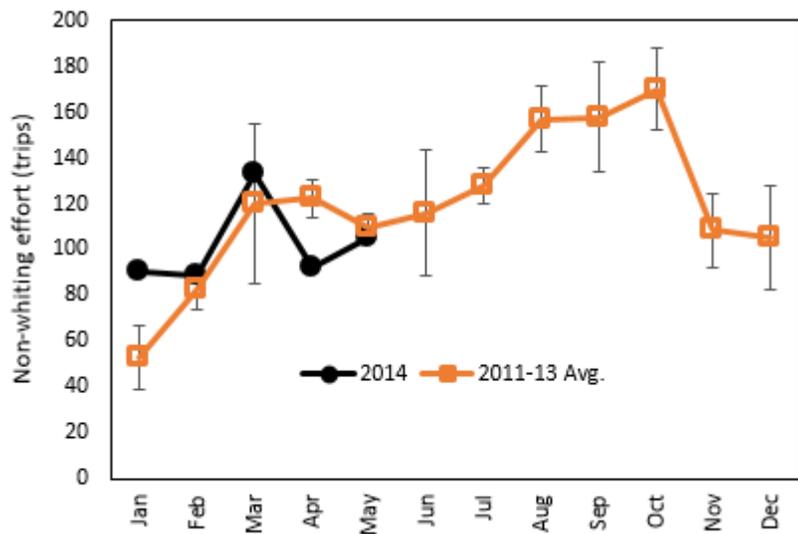


Figure 5. Monthly non-whiting effort (left panel, number of trips) and catch per unit effort (right panel, total catch per trip) through May of 2014 (black dots), compared with the annually averaged monthly values for 2011-2013 (orange or blue open squares). Whiskers represent plus and minus one standard deviation. Source: NMFS IFQ Vessel Account Database.