

# FLC Monitoring

*Sea State*

*03 November, 2016*

## Changes this week

We have updated the blue king crab totals to reflect the crab calendar year season start and end dates of July-1 to June-30, respectively. All blue crab reported for the current calendar year reflect the numbers caught since July 1, 2016. –Steve

## Overview

The total cumulative catch of Pacific cod at the end of 2016-10-29 was 95,334 mt. At the same week in the previous year, the cumulative catch was 93,695 mt (Table 1). Halibut encounters to date have decreased by 29.5% over last year. The cumulative halibut mortality to date for 2016 is 173 mt, and at the same time last year 245 mt.

Table 1: Catch statistics (in metric tons) for week ending 2016-10-29 (Week 44).

	Cumulative 2015	Cumulative 2016	Week 44 2015	Week 44 2016
<b>P. Halibut</b>	2,717	1,915	103	42
<b>P. Cod</b>	93,695	95,334	2,086	1,506
<b>Avg. Rate (kg/mt)</b>	22	16	36	20
<b>Number of Sets</b>	11,729	10,506	327	233
<b>Halibut Mortality</b>	245	173	9.3	3.8

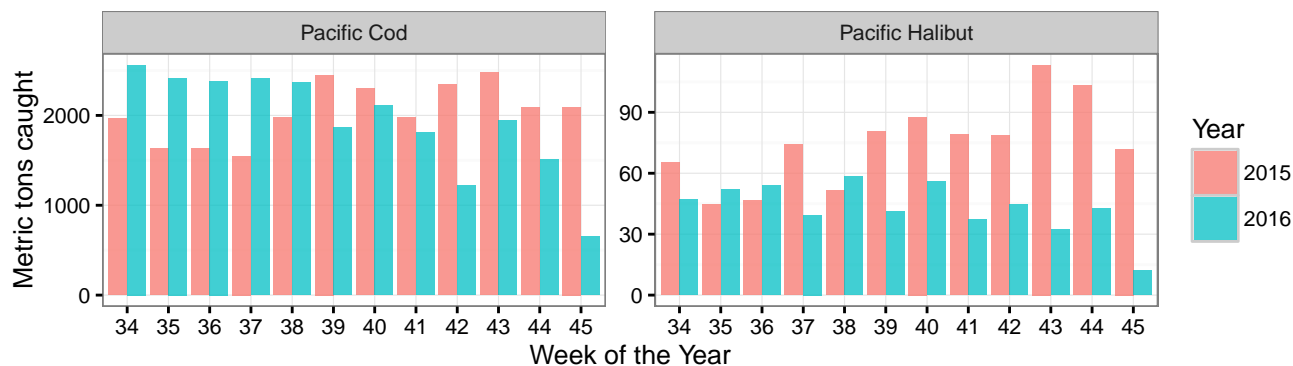


Figure 1: Weekly catch of Pacific cod, and encounters (mt) of Pacific Halibut.

## NMFS Stat Area Summary

Table 2: Halibut encounter rates for the week ending 2016-10-29.

Trip Target	NMFS Area	Groundfish (mt)	Halibut (kg)	Rate (kg/mt)	Halibut Mortality (mt)
Cod	513	34	1,287	38.1	0.116
Cod	517	732	20,380	27.8	1.834

Trip Target	NMFS		Halibut (kg)	Rate (kg/mt)	Halibut Mortality (mt)
	Area	Groundfish (mt)			
Cod	521	1,300	20,736	15.9	1.868
Cod	524	162	300	1.9	0.027
Total	NA	2,228	42,703	19.2	3.846

## Vessel Rates and Ranking

Table 3: Vessel rates in kg of halibut per ton of groundfish for the week ending 2016-10-29.

Trip Target	Vessel	Rate	Rank
Cod	ALASKA MIST	0.46	1
Cod	LILLI ANN	2.42	2
Cod	OCEAN PROWLER	2.47	3
Cod	SIBERIAN SEA	3.52	4
Cod	BLUE ATTU	3.70	5
Cod	BRISTOL LEADER	4.81	6
Cod	CLIPPER EPIC	6.20	7
Cod	BEAUTY BAY	7.30	8
Cod	FRONTIER MARINER	7.66	9
Cod	BLUE BALLARD	8.52	10
Cod	DEEP PACIFIC	10.26	11
Cod	FRONTIER EXPLORER	15.63	12
Cod	U S LIBERATOR	16.10	13
Cod	BLUE NORTH	17.71	14
Cod	ALASKAN LADY	27.91	15
Cod	COURAGEOUS	34.82	16
Cod	ALASKAN LEADER	38.58	17
Cod	CLIPPER ENDEAVOR	38.82	18
Cod	FRONTIER SPIRIT	79.05	19
Cod	CLIPPER SURPRISE	131.36	20

## Viability Sampling

Total number of hauls sampled to date is 5,916, and the total number of hauls sampled in 2015 was 8,349.

Table 4: Viability samples as of 2016-10-30

Trip Target	Injury Type	Year-to-date	Week 44	Week 43
Cod	Minor	4,807	94	77
Cod	Moderate	380	7	5
Cod	Severe	35	0	0
Cod	Dead	77	0	2
OtherSpecies	Minor	4	0	1
OtherSpecies	Dead	2	0	2
Turbot	Minor	18	0	0
Turbot	Moderate	1	0	0
Turbot	Severe	1	0	0

## Discard Mortality Rates (DMR)

The 2016 discard mortality rate based on all viability samples (Table 4) to date is 7.67% for trips targeting Cod (Table 5), and 35.7% for trips targeting OtherSpecies.

Table 5: Halibut discard mortality rates based on viability sampling.

Trip Target	DMR Year-to-date	Week 44	Week 43
Cod	7.67%	5.77%	7.75%
OtherSpecies	35.7%	0%	67.8%
Turbot	8.28%	0%	0%

## Blue King Crab

**NOTE** The calendar year for Blue King Crab starts on July 1st of each year. Counts in each table reflect the crab calendar year.

Total cumulative catch of blue king crab in 2016 is 744. At the same time last year the total cumulative catch was 338.

Table 6: Blue king crab numbers by NMFS stat area.

Reporting Area	Total 2015	Year to date 2015	Year to date 2016	Week 44 2015	Week 44 2016
509	0	0	0	0	?
512	0	0	0	?	?
513	212	211	59	29	0
514	3	3	0	0	?
516	0	0	1	?	?
517	5	5	0	0	0
518	?	?	0	?	?
519	0	0	0	0	?
521	182	93	385	40	1
523	0	0	0	0	?
524	26	26	299	7	0
541	0	0	0	0	?
542	0	0	0	?	?
543	0	0	0	?	?

Table 7: Total blue king crab numbers, numbers taken inside the Pribilof Habitat Conservation Zone, and the Blue King Crab District.

Reporting Area	Total 2015	Year to date 2015	Year to date 2016	Week 44 2015	Week 44 2016
Total	428	338	744	76	1
PHCZ	314	314	11	29	?
BKCD	330	329	18	29	0

## Sea Birds

**NOTE:** Work in progress. I'm still need to validate these numbers with the regional office. Stay tuned.

Name	2015	2016
Auklet/Murrelet Unidentified	1	NA
Bird Unidentified	56	90
Black-Footed Albatross	2	4
Black-Legged Kittiwake	3	1
Crested Auklet	2	NA
Dark Shearwater Unidentified	13	2
Glaucus Gull	8	16
Glaucus-Winged Gull	4	10
Gull Unidentified	272	90
Laysan Albatross	27	9
Northern Fulmar	877	1,159
Red-Legged Kittiwake	4	NA
Sea Birds Unidentified	4	2
Shearwater Unidentified	16	266
Short-Tailed Shearwater	62	628
Sooty Shearwater	15	249