

FLC Halibut Bycatch Summary

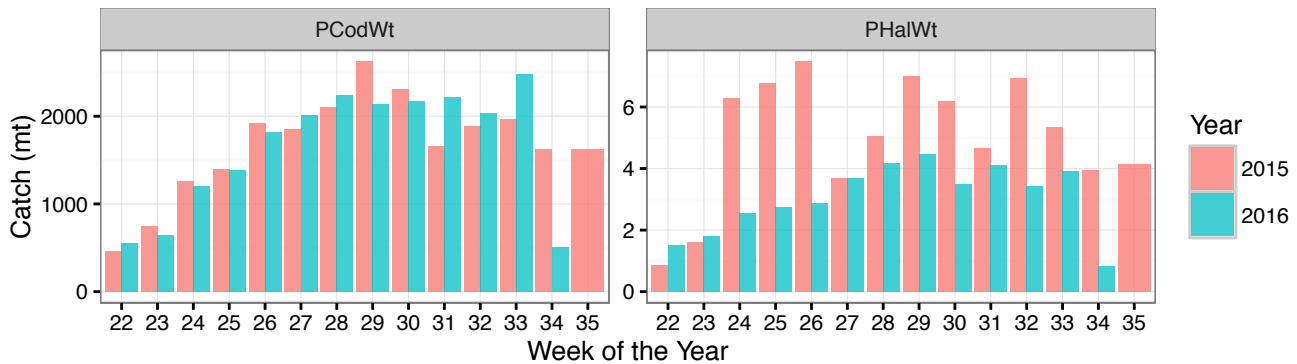
(*MOCKUP FLEET MANAGER REPORT*)

25 August, 2016

Overview

Reporting period: date range 2016-08-14 to 2016-08-20, week 34

- Total number of sets: cumulative 7,571, past 7-days 257
- Pacific Cod: cumulative 44,856 mt, past 7-days 502 mt.
- Pacific Halibut: cumulative 110 mt, past 7-days 814 kg.
- YTD Halibut Encounter Rate: Average = 16.5 (SD=22.4) kg halibut per ton OTC.
- Previous week Halibut Encounter Rate: Average = 18.4 (SD=23.4) kg halibut per ton OTC.



Viability sampling

Total number of halibut viability samples to date is 4601.

Table 1: Viability samples as of 25 August, 2016

Injury Type	Previous week	Previous 2-weeks	Year to date
Minor	115	238	4103
Moderate	9	17	382
Severe	0	0	39
Dead	0	3	77

Discard mortality rates

The year to date discard mortality rate based on all viability sampling is 8.37%. In the previous 2-weeks the rate was 6.78%. In the last week 5.88%.

NMFS stat area summary

Table 2: Halibut encounter rates for the week ending 2016-08-20.

Trip Target	NMFS Area	OTC (mt)	Halibut (kg)	Rate (kg/mt)	Halibut Mortality (mt)
Cod	509	140.2	6,349	45.3	0.57
Cod	513	170.8	4,068	23.8	0.37
Cod	514	84.1	2,189	26.0	0.20
Cod	517	686.9	21,450	31.2	1.98
Cod	521	691.7	6,821	9.9	0.61
Cod	524	1,643.8	7,254	4.4	0.65
Cod	541	7.3	0	0.0	0.00
Turbot	521	103.4	1,084	10.5	0.12
Turbot	523	22.4	0	0.0	0.00
Turbot	524	26.7	0	0.0	0.00

Vessel Rates and Ranking

Table 3: Vessel Rates in kg of halibut per ton of OTC for the week ending 2016-08-20.

TripTarget	Vessel	Rate	Rank
Cod	GLACIER BAY	0.078	1
Cod	ALASKAN LADY	0.466	2
Cod	U S LIBERATOR	0.664	3
Cod	BERING PROWLER	1.543	4
Cod	DEEP PACIFIC	1.681	5
Cod	OCEAN PROWLER	2.142	6
Cod	BRISTOL LEADER	2.586	7
Cod	SIBERIAN SEA	3.555	8
Cod	BLUE ATTU	6.595	9
Cod	PROWLER	10.631	10
Cod	CLIPPER EPIC	20.156	11
Cod	FRONTIER EXPLORER	23.546	12
Cod	FRONTIER SPIRIT	23.818	13
Cod	BLUE BALLARD	24.189	14
Cod	ARCTIC PROWLER	24.789	15
Cod	FRONTIER MARINER	26.060	16
Cod	BARANOF	31.399	17
Cod	BERING LEADER	38.237	18
Cod	LILLI ANN	45.283	19
Cod	BLUE GADUS	66.982	20
Turbot	CLIPPER ENDEAVOR	0.000	1
Turbot	CLIPPER SURPRISE	13.399	2

Catch-to-date by gear type.

Show a table with the breakdown of BSAI groundfish catch & bycatch by gear types: HAL, NPT, POT, PTR, ALL.

Blue King Crab

Show BKC catch-to-date by fishing area, and report the number caught in the Prib's Zone. Simple table will suffice.

Halibut hotspots

Heat map based on the halibut encounter rates in the H&L CP fishery.

How this will eventually work, I'm just calculating the nearest neighbor density for all sets in the past week where the halibut encounter rate is greater than the median rate of all sets for that week. For now the rate is based on $(\text{kg Halibut pre mortality})/(\text{Official Total Catch})$